Intelligent Drivesystems

MAXXDRIVE® SERIES GEARMOTORS & SPEED REDUCERS

Large Industrial Gear Units

G1050

NORD DRIVESYSTEMS

MAXXDRIVE® SERIES
Factor Definitions

Abbrev.	Description	Unit
d_o	Pitch diamter of externally mounted power transmission device	[in]
F_A	Allowable axial/thrust load force	[lb]
F_R	Allowable radial overhung load force	[lb]
F_{OHL}	Applied or calculated radial overhung load force	[lb]
F_T	Applied or calculated axial/thrust force	[lb]
i_{ges}	Exact reducer gear ratio	[:1]
i_N	Nominal gear ratio	[:1]
i_{req}	Calculated or required gear ratio	[:1]
L_{10h}	Reducer L-10 bearing life	[hours]
n_1	Actual reducer input speed	[rpm]
n_{1N}	Nominal reducer input speed	[rpm]
n_2	Actual reducer output speed	[rpm]
n_{2N}	Nominal reducer output speed	[rpm]
P_1	Reducer input power	[hp]
$P_{1.n}$	Required reducer input power at time interval "n"	[hp]
P_{1avg}	Average reducer input power	[hp]
P_m	Motor power	[hp]
P_N	Reducer mechanical power capacity	[hp]
P_{wg}	Reducer thermal power capacity (convection)	[hp]
$P_{wg.F}$	Reducer thermal power capacity (convection + shaft-fan)	[hp]
$P_{wg.FC}$	Reducer thermal power capacity (convection + shaft-fan + integrated water cooler)	[hp]
$P_{wg.C}$	Reducer thermal power capacity (convection + integrated water cooler)	[hp]
$P_{wg.CS1}$	Reducer thermal power capacity (oil/water cooling system)	[hp]
$P_{wg.CS2}$	Reducer thermal power capacity (oil/air cooling system)	[hp]
$P_{t0.20}$	Thermal power capacity with convection cooling (20°C ambient)	[hp]
$P_{t0.40}$	Thermal power capacity with convection cooling (40°C ambient)	[hp]
$P_{tF.20}$	Thermal power capacity with shaft-fan (20°C ambient)	[hp]
$P_{tF.40}$	Thermal power capacity with shaft-fan (40°C ambient)	[hp]
$P_{tC.20}$	Thermal power capacity with integrated water coil (20°C ambient)	[hp]
$P_{tC.40}$	Thermal power capacity with integrated water coil (40°C ambient)	[hp]
Q_{CS1}	Cooling power capacity of oil/water cooling system	[hp]
Q_{CS2}	Cooling power capacity of air/oil cooling system	[hp]
s	Shrink disc saftey factor	---
t_t	Total duty cycle time	[s]
t_n	Elapsed time for time interval "n"	[s]
t_w	Cooling water inlet temperature	[°C or °F]
T_1	Reducer input torque	[lb-in]
T_{1peak}	Peak load torque at reducer input	[lb-in]
T_2	Reducer ouptut torque produced	[lb-in]
T_{2avg}	Average reducer output torque	[lb-in]
$T_{2.n}$	Required reducer output torque at time interval "n"	[lb-in]
T_{2max}	Rated torque of the gear unit	[lb-in]
T_{2peak}	Peak load torque at reducer output	[lb-in]
v_L	Air speed	[ft/s]
v_o	Oil flow rate	[gpm]
v_w	Water flow rate	[gpm]
x	Distance from the applied overhung load to the reducer shaft seal shoulder	[in]

Abbrev.	Description	Used For
f_{AN}	Start-up factor	Load limit
f_B	Service factor or operating service factor	Pre-selection
f_{ED}	Duty cycle factor	Pre-selection
f_H	Altitude factor	Thermal power limit
f_L	Fan-cooling air temperature factor	Thermal power limit
f_M	Input factor (takes into consideration the prime mover)	Load limit
f_n	Input speed factor	Thermal power limit
f_o	Oil supply factor	Thermal power limit
f_s	Peak load factor	Load limit
f_t	Ambient temperature factor	Thermal power limit
f_V	Ambient air velocity factor	Thermal power limit
f_W	Cooling water temperature factor	Thermal power limit
f_z	Power transmission factor	Radial & axial forces
η_N	Nominal or estimated gear reducer efficiency	Selected motor size

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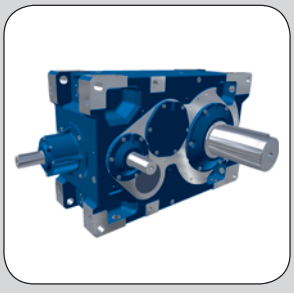
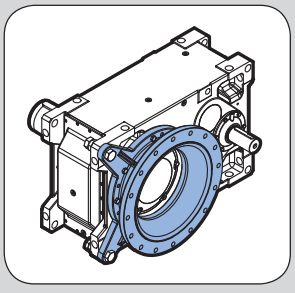
NORD DRIVESYSTEMS

www.nord.com





NORD Gear

Company Overview

Since 1965, NORD Gear has grown to global proportions on the strength of product performance, superior customer service, and intelligent solutions to a never ending variety of industrial challenges.

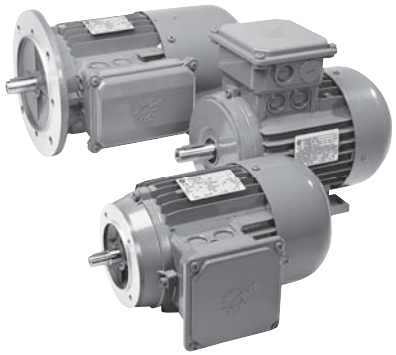
All mechanical and electrical components of a drive system are available from NORD Gear. Our products cover the full range of drive equipment: large industrial gearboxes, helical in-line, Clincher™ shaft-mount, helical-bevel, and helical-worm gearboxes, motors and AC drives from 1/6 hp to 1500 hp, with torques from 90 lb-in to over 2,000,000 lb-in.

But NORD Gear does far more than manufacture the world's finest drive components. We provide our customers with optimum drive configurations for their specific purposes. NORD provides each and every one of them with truly complete and efficient systems at a price/quality ratio unmatched in today's fast-changing markets.

NORD Gear makes its wide range of products easily available through a global network that provides all customers with prompt delivery and expert support services to consistently exceed customer expectations. We are firmly committed to being thoroughly responsive to the ideas and specifications of every customer, anywhere in the world.

High-Performance Motors & Brakemotors

NORD motors are designed to run cool for an increased service life. Low rotor inertia and high starting torque allow peak performance in the most difficult applications for both inverter and vector duty motors per NEMA MG 1-2006 Section 31.4.4.2 voltage spikes. Our motors are internationally accepted, conforming to North American NEMA MG 1 and international IEC electrical specifications. High performance options include brakes, encoders, and forced cooling fans.



Short, On-Time Delivery

As a NORD customer, you can rest assured that your order will be delivered on time. Because NORD has both decentralized assembly and manufacturing operations paired with a globally linked network, we have the ability to offer our customers:

- Fast, reliable responses
- Greater product versatility
- Shorter lead times
- Timely shipping
- Rapid delivery

Quality

Quality is assured at NORD's assembly and manufacturing facilities, based on ISO 9000 standards — from careful inspection of incoming materials to closely monitored machining operations, including gear cutting, turning, hardening & grinding as well as finishing & assembly.

Manufacturing

NORD continually invests in research, manufacturing and automation technology. This is to ensure the highest possible quality at affordable prices. NORD invests heavily in our North American facilities as well as our factories around the world. Recent examples include expanding our Waunakee factory and adding numerous new large gear unit assembly cells. In our Glinde, Germany gear factory we added a state-of-the-art multi-chamber vacuum carburization system.

Global Availability

From Shanghai to Charlotte, and all points in-between, NORD reaches customers around the world. Deliveries, service, and product support are close at hand, regardless of your location.

Worldwide Standards

NORD products are designed and manufactured based on the latest North American and global standards.

Increased North American Presence

NORD covers North America with over 30 district offices and over 500 distributor branches. NORD operates a manufacturing and assembly facility in Waunakee, WI, Charlotte, NC, Corona, CA, Brampton, ON, and Monterrey, Mexico, resulting in an ever-increasing capacity in North America and giving our customers the shortest lead times in the industry.

Energy Efficiency

Lowering your operating costs is one of our greatest goals! NORD research and development focuses on energy efficiency, with gearboxes, motors, and frequency inverters designed for lower energy consumption. Our fully diverse line of in-line or right-angle units and motors have been developed to suit your needs.

Modular Design

NORD's modular design philosophy provides you with a competitive edge by allowing you to configure drive systems that are an exact fit to your specific applications.

More than 20,000,000 combinations of totally unique gearmotors and speed reducers are possible – assembled in-line or right-angle, mounted by foot or flange, featuring solid or hollow shafts with either metric or inch shaft extensions – to give you complete freedom to specify a drive solution that's perfect for you.

Benefits

- More output speeds
- More mounting arrangements/Greater flexibility
- Fewer gear stages/Lower cost
- Metric and inch products

NORD engineers are readily available to assist you with your custom applications. Most standard drives can be modified to your purposes, and custom designs can be developed for special applications.

Ordering Notes & Information

- The illustrations contained in this catalog are for initial reference only. Final dimensions are available from NORD Gear upon request.
- The oil fill levels listed are our recommended values. Please use the marks listed on the included dipstick or oil sight glass to help you determine the proper oil level.
- Our gear units arrive without oil to decrease shipping costs. After filling the units to the proper oil level they are ready to operate.
- When replacing oil, the grade and viscosity should match the values listed on the gearbox nameplate.
- The end user is responsible to provide protection against moving or rotating parts. The safety regulations that are in place for the location of gearbox operation must be followed.

Key Features

MAXXDRIVE™ Housings

NORD large industrial gear units have been developed according to the well-proven UNICASE™ housing design in which all bearings and seals are contained within a single casting. The UNICASE™ concept was pioneered by NORD Gear in 1980 and ***features the highest levels of precision, rigidity and strength*** by eliminating splits and bolt on carriers. There are no separations in the housing which are subjected to torques or radial loads.

The UNICASE™ principle enables a more compact design that includes larger roller bearings, which guarantee a prolonged operating life. Ease of service to the gear unit is ensured by a large assembly cover over the face plate of the gear unit.

Our UNICASE™ housings are made of cast iron. Ductile iron may be supplied upon request.

Optimized geometries and precise shaft alignment are a result of the UNICASE™ style housing and provide excellent load-bearing capacity, long operating life, insignificant noise levels as well as provide the highest level of system lubrication integrity.

Advantages of UNICASE™ Housings

- ☑ Optimum sealing
- ☑ Quiet running
- ☑ High torque capacity
- ☑ Increased operating life of bearings & gears
- ☑ High reliability
- ☑ Prolonged operating life
- ☑ Increased lubricant life
- ☑ Symmetrical design
- ☑ A B14 face flange on the output side
- ☑ Mounting pads on all 6 sides
- ☑ Mirror-image installation possible
- ☑ Same housing size, installation dimensions for all ratios (2 and 3 stage)

FEM (Finite Element Modeling) Analysis

The MAXXDRIVE™ design process included using state-of-the-art Finite Element Modeling as a key design tool. This allowed optimal structural design to maximize the strength & rigidity of the gearbox and it's components.

Gear, Bearing and Shaft Standards

All of the gears in the NORD MAXDRIVE™ product line are keyed to provide a positive connection. These gears are additionally mounted with a press-fit between the shaft and gear hub.

The gears included in our MAXXDRIVE™ line are made of high caliber alloy steels and are case hardened. The gear quality meets DIN ISO 6-7 (AGMA 10-12).

The MAXXDRIVE's™ nominal bearing life is estimated on more than 9,000 hours at the maximum rated gearbox output torque (T_{2max}) and output speed (n_2). Most competitive product averages are approximately 3000 to 5000 L-10 hrs. The calculated nominal torque ratings and speeds are available in the ratings sections of this catalog.

All NORD gear units provide the very highest level of quality, safety and reliability. The gearing, bearing and shaft capacities are calculated according to the international standards as shown.

Gear Type	DIN Standard	AGMA Standard
Helical gears	DIN 3990	AGMA 2001
Bevel gears	DIN 3992	AGMA 2003
Bearings	DIN ISO 281	N/A
Shafts	DIN 743	N/A

The gears and bearings are designed to be partially submerged in oil during operation. Pressure circulation lubrication is available as an option in the form of a motor or a flange mounted pump. In addition to this option there are many other alternative oil circulation and cooling methods available for the MAXXDRIVE™ product line.

Temperature Management

Please refer to the options section on page 34 for more information on the following available cooling system options

Available Temperature Management Options

- ☑ Fan, 3 options
- ☑ External oil/air cooler
- ☑ External oil/water cooler
- ☑ Internal cooling coils (water)
- ☑ Heating cartridges

Key Features

Lubrication Overview

Proper gearbox lubrication is essential in order to reduce friction, heat, and component wear. Lubricants reduce heat and wear by inserting a protective "fluid boundary" between mating parts and preventing direct metal to metal contact. Lubricants also help prevent corrosion and oxidation, minimize foam, improve heat transfer, optimize reducer efficiency, absorb shock loads and reduce noise.

MAXXDRIVE™ gear units that are mounted in a standard horizontal position are intended to be oil splash lubricated. MAXXDRIVE™ gear units mounted in a vertical or standing position utilize bath or immersion lubrication to ensure oil is delivered to the critical bearing and gear mesh areas. Forced lubrication or pressure lubrication is also an option.

The MAXXDRIVE™ gear units are designed to be able to operate with high performance mineral oil containing an extreme pressure (EP) additive. A viscosity grade ISO VG220 EP (AGMA 5 EP) mineral oil is typical for ambient temperature conditions between 0°C-40°C (32°F-104°F).

While the MAXXDRIVE™ gear units are designed to be able to operate with high performance mineral oil, NORD strongly recommends the use of synthetic oil. Compared to mineral oil, synthetic oil offers the following advantages that provided added wear protection and extend reducer component life:

- Higher film strength, lower traction coefficient and improved lubricity.
- Reduced internal friction (by as much as ½ compared to mineral oil) resulting in lower operating temperatures and improved gear efficiency.
- Superior wear and thermo-oxidative resistance, provides enhanced system cleanliness and enables longer service intervals.
- Higher viscosity index offers improved low temperature and high temperature stability.

Additional lubrication guidlines can be found on page 61 of this catalog as well as in the MAXXDRIVE™ maintenance instructions (www.NORD.com).

Durable and Flexible

The MAXXDRIVE™ large industrial speed reducers offer a unique combination of flexibility and durability. The drives are extremely versatile in terms of mounting configurations. They employ a "universal" housing design with mounting surfaces on all six sides. The same housing is used for both our off-set parallel and right-angle drives.

Sealing systems

The standard shaft seals that are provided are nitrile rubber NBR (Buna-N), and optionally FKM (Fluroelastomers). For specific ambient conditions, sealing systems incorporating gamma-ring, labyrinth and Taconite seals are also available. In case other specialized sealing requirements are needed please contact NORD Gear.

Available sealing options

- ☑ Single seal NBR/FKM
- ☑ Double seal NBR/FKM
- ☑ Dust protection seal
- ☑ Taconite seal
  (labyrinth seal, can be re-greasable)
- ☑ Gamma ring seal, dust protection
- ☑ Special sealing options by request

Design Advantages

There are countless advantages for using NORD MAXXDRIVE™ gear units for your large industrial gearbox needs. Here is an overview of some of the significant advantages that this product has to offer.

- ☑ Heavy duty design for severe applications
- ☑ Competitive features/construction
- ☑ High power density
- ☑ Modular & Flexible Design
- ☑ Increased bearing life compared to split case housings (due to larger bearings)
- ☑ Quiet running - optimized cyclo-palloid bevel gears by Klingelnberg (HPG / Wiener)
- ☑ One peice housing, which provids higher stiffness than a split case design
- ☑ Large motor combinations are possible
- ☑ Efficient axial fan cooling
  (optimized air flow over gearcase surfaces)
- ☑ Increased accessory life due to the use of synthetic lubricants
- ☑ Gears - case hardened and ground
  (Rc 60 Minimum)
- ☑ Antifriction - high quality bearings

General Warnings & Cautions

Vertical Mounting Position

Consult NORD for determination of the thermal power limits if either the parallel shaft or bevel gear reducer is to be mounted as follows:

- Upright or standing mounting position (M2 or M4).
- Vertical output-shaft mounting position (M5 or M6).

The mounting positions are displayed on page 28.

⚠ IMPORTANT NOTE ⚠

In standing position or vertical-shaft applications a higher operating temperature rise may result due to the higher oil volumes which create greater oil churning losses. In many instances, NORD may be able to recommend a forced oil lubrication system in order to avoid these higher operating temperature conditions.

Vertical Motor or Vertical Input Shaft

Parallel-shaft gear units with a motor or input shaft which is pointing vertical-up (M5 or M6 mounting position) require either a higher oil level to lubricate the high-end bearings and gearing or they will require a forced oil lubrication system.

Raising the oil level will result in higher gear pitch-line velocities, increased oil churning or splashing losses and additional heating inside the gear unit. To avoid excessive pressure build-up, a critical loss in oil volume through the air vent or shaft seals and possible oil foaming, NORD may need to recommend adding an oil expansion chamber (Option OA) or an oil tank (Option OT). For details on the OA and OT Options see page 55.

Alternatively NORD may suggest maintaining a lower oil level and adding a forced lubrication. This will assure lubrication to the all the critical gear and bearing areas and also allow the gear unit to operate at lower oil sump temperatures. Consult NORD for details.

Ventilation

All gear units include a vent to compensate for the differences in air pressure between the interior of the gear unit and it's environment. The standard open vent is sealed for delivery with a transportation plug that must be removed prior to activation.

Overload Conditions

Loads that exceed the gearbox ratings are considered overloads. An overload may either be momentary or periodic in duration, as well as quasi-steady or vibratory in nature. The load magnitude and the number of stress cycles need to be considered and analysis is required to prevent low-cycle fatigue or yield stress failure.

Refer the following load conditions to the factory:

- The peak momentary or starting load exceeds 200% percent of gear unit's rated capacity.
- Frequent load reversals occur and develop high peak torques during the changes in load direction.
- Heavy repetitive shock loads may occur.
- When high-energy loads must be absorbed and high peak torques develop, such as when stalling conditions occur.

Oversized Prime Movers

High torque motors or oversized prime movers are sometimes needed to overcome high energy loads. Recommended operating service factors do not cover instances where oversized prime movers are required. These applications should be reviewed by the factory.

Variable Speed or Multi-Speed Applications

Gear reducer ratings in this catalog are based upon single speed operation of the gear unit. When selecting gear drives for multi-speed or variable speed applications, determine the speed at which the greatest torque is developed and make the initial selection of the gear drive on that basis.

The following information is essential in order for NORD to verify adequate oil distribution, thermal capacity and whether or not there is any need for an oil distribution system or special cooling options:

- Indicate the operating speed requirements and gear ratio.
- Provide the minimum and maximum speeds are along with the speed duration cycles.

NORD Gear specifies different oil levels for various gear reducer sizes, speeds, ratios and mounting positions; If one intends to operate an existing gear drive at a different speed from those shown on the nameplate, the full application and nameplate information must be reviewed by the factory.

Brake Equipped Applications

When a brake is either supplied between the motor and the prime mover or included with a motor, the gear drive must be selected by either the brake's rating or the highest equivalent input power, whichever is greater. If the brake rating is higher than 200% of the rated gear unit capacity or if the brake is located on the output shaft of the gear drive, the application should be reviewed by the factory.

Wet or Damp Outdoor Installation

Special seals and anti-corrosion measures are required for installation outdoors, in wet or damp environments or in tropical climates.

Exposure to Solar Heating

If a drive is exposed to radiant or solar heating, while operating in the sun at ambient temperatures of 104°F (40°C) or higher, then special protection measures are recommended. This protection can consist of a canopy over the gear drive or reflective paint on the gear drive. If neither is possible, a heat exchanger or other cooling device may be required.

Special Conditions

Consideration must be taken during unit selection when special environmental or extraordinary conditions are present during transportation, storage or operation. Please consult NORD for assistance. Special conditions may include (but are not limited to):

- Exposure to aggressive corrosive materials (contaminated air, gasses, acids, bases, salts, etc.).
- Exposure to very high relative humidity (installed outside, in damp rooms, or used in tropical environments).
- Direct contact between the motor and liquid.
- Material build-up on the gear unit or motor (dirt, dust, sand, etc.).
- High atmospheric pressure.
- Radiation exposure.
- Extreme high or low temperatures or large temperature fluctuations.
- High vibration, rapid accelerations or decelerations, shock or impact.

Special Applications

Severe operating conditions typically apply for gear drive applications such as agitators, mixers, ventilators, fans, and cooling towers.

Often these applications may involve one or more of the following operating conditions:

- 24-hour continuous operation at or near full-load motor power or full-load torque.
- A large inertia or moving mass at the reducer output with a small gear ratio generating very high load conditions at the reducer's input.
- Vibrations may be common, such as those found when an external drive chain or belt is used.
- A direct gear drive connection to a mixer or fan shaft that produces high oscillating and bending movements as well as high load forces to the reducers drive shaft and internal bearings.
- Vertical reducer configuration is needed & special reducer options are often necessary.
- Outdoor installation (i.e. humidity and aggressive media, as well as sudden changes in temperature with the possibility of condensation).
- A high degree of environmental protection is required(special sealing, biodegradable oil, special maintenance and servicing needs, low noise, etc.).

NORD has experience with many unique applications and has developed a package of design options in order to meet these requirements. Please consult NORD when selecting a gear unit for special applications.

Storage

Prior to installation, storage for up to 9 months is possible, so long as the following is observed:

- Store the gear unit in its actual mounting position in accordance with the specified oil fill-level, in a clean and dry temperature controlled area.
- Avoid temperature fluctuations within the range of -5°C to 50°C (23°F to 122°F) and avoid relative humidity conditions in excess of 60%.
- Protect all exposed or unpainted shaft and flange surfaces with an anti-corrosion agent or grease.
- Store in a location free from shock & vibration, to avoid damage to the bearing elements & raceways.
- Whenever possible, rotate the shafts periodically, to help prevent brinelling of the bearings and to help keep the shaft seals pliable.
- Avoid exposure to the sun or UV light and other aggressive/corrosive materials (ozone gases, solvents, acids, caustic solutions, salts, radioactivity, etc.

Selection Inquiry


NORD DRIVESYSTEMS

Date: _____

Company: _____
Address: _____
Contact: _____
Telephone: _____
Email: _____

NORD Gear Sales Contact: _____
Telephone: _____
Email: _____

Project Name / Location: _____ **Application:** _____

☐ **New** ☐ **Replacement** **Description:** _____

Environmental Parameters

Ambient Temperature

☐ °F ☐ °C Normal _____ Min. _____ Max. _____

Ambient Conditions

☐ Normal ☐ Corrosive
☐ Dusty ☐ Dry
☐ Damp ☐ Seawater
☐ Other _____

Installation Environment

❍ Small Space ($V_L \leq 1.6$ ft/s [0.5 m/s])
❍ Large Rooms & Halls ($V_L \leq 4.6$ ft/s [1.4 m/s])
❍ Outdoors, shaded from sun ($V_L \leq 9.8$ ft/s [3.0 m/s])

Altitude

☐ ft ☐ M _____ Above Sea Level

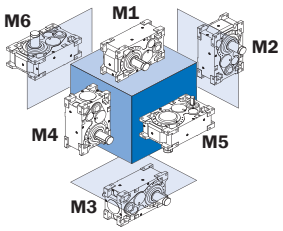
Gearbox Parameters

Gear Unit Type

❍ Parallel Gear Unit SK..207 / SK..307
❍ Helical Bevel Gear Unit SK..407 / SK..507

Mounting Position

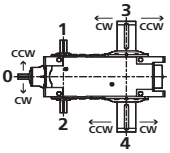
❍ M1 ❍ M4
❍ M2 ❍ M5
❍ M3 ❍ M6
❍ Special _____



Mounting Surface

❍ F1 ❍ F4
❍ F2 ❍ F5
❍ F3 ❍ F6
❍ Special _____

Shaft Position (Check all that apply)

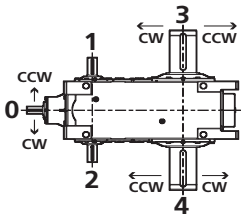


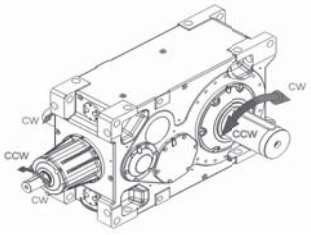
☐ Shaft Position 0
☐ Shaft Position 1
☐ Shaft Position 2 } Input Shafts
☐ Shaft Position 3
☐ Shaft Position 4 } Output Shafts

Backstop Required ☐ Yes ☐ No
❍ Position 3 ☐ CW Rotation ☐ CCW Rotation
❍ Position 4 ☐ CW Rotation ☐ CCW Rotation

Gearbox Parameters ctd.

Direction of rotation under load (output, plan view)





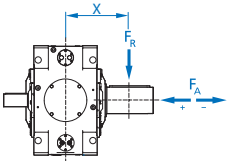
☐ Single Direction ☐ Both Directions
❍ Position 3 ☐ CW Rotation ☐ CCW Rotation
❍ Position 4 ☐ CW Rotation ☐ CCW Rotation

Output Shaft Type

❍ Solid Shaft with Keyway
❍ Hollow Shaft with Keyway
❍ Hollow Shaft with Shrink Disc
❍ Other, See Sketch _____

Low Speed Shaft Loading

☐ Direct Coupled - No Axial or Radial Loads
☐ F_R - Overhung Load _____ [lb]
☐ F_A - Axial Load _____ [lb]



Pitch Diameter

❍ Pinion _____ [in]
❍ Sprocket _____ [in]
❍ V-Belt _____ [in]
❍ Flat-Belt _____ [in]
❍ Other: _____ _____ [in]

Distance from load center to shaft shoulder _____ [in]
Direction toward Geardrive _____ +(in) /-(out)

Machine Shaft Bearing

❍ Two bearing support, the gear unit only transmits torque
❍ Other, See Sketch _____

Selection Inquiry

Gearbox Parameters ctd.

Required Output Speed N_2 [rpm]
Normal _____ [rpm] Min. _____ [rpm] Max. _____ [rpm]

Input Speed n_1 [rpm]
Normal _____ [rpm] Min. _____ [rpm] Max. _____ [rpm]

Ratio [i_{ges}]
_____ Min. _____ Max. _____

Input Power P_1 [hp]
Normal _____ [hp] Min. _____ [hp] Max. _____ [hp]

Output Torque T_2 [lb-in]
Normal _____ [lb-in] Min. _____ [lb-in] Max. _____ [lb-in]

Service Factor f_B Min. _____
related to: ☐ Motor Power/Torque ☐ Operating Power/Torque

Time of Operation
❍ ≤ 0.5 hours per day
❍ 0.5 - 10 hours per day
❍ > 10 hours per day

Switch-on time _____ **%**

Frequency of peak loads _____ per hour

Number of startups _____ per hour

Reversing Application ☐ Yes ☐ No
Frequency _____

Permissable Cooling (If necessary)

	Approved	Not Approved
Fan	☐	☐
Cooling Cover / Cooling Cartridge	☐	☐
External Oil / Air Cooler	☐	☐
External Oil / Water Cooler	☐	☐

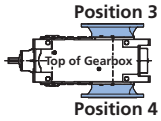
Cooling Water Available ☐ Yes ☐ No
Cooling Water Temperature _____ °C

Type of Cooling Water (sea water, pond water, pool water, etc.)
_____

Gearbox Parameters ctd.

Gear Unit Attachment
❍ Foot
❍ Flange
❍ Torque Support
❍ Motor Swing Base (for options please consult NORD)
❍ Motor Base Frame (for options please consult NORD)
❍ Other _____

Flange
❍ None
❍ B14-Face Flange
❍ B5 Flange - Outside Diameter _____ [mm]



❍ B5 Flange Position3
❍ B5 Flange Position 4

Torque Support
❍ None
❍ Standard Torque Support
❍ Elastic Torque Support

Primary Mover Related Parameters

Drive Type
❍ Three Phase-Motor ❍ Multi-Cylinder Engine
❍ Other _____

Motor Type
❍ B3 (Foot Mounted) ❍ B5 (Flange Mounted) ❍ NEMA C-face
❍ Other _____

Electric Motor Standards
❍ IEC ❍ NEMA Size _____

Variable Frequency Drive [VFD]
☐ Yes ☐ No

Connection of the Motor to the Gear Unit
❍ Free Shaft End
❍ Motor Adapter
❍ Motor Swing Base / Base Frame
❍ Other, See Sketch _____

Coupling on Input
☐ Elastic Coupling ☐ Flexible Coupling ☐ Fluid Coupling

Coupling on Output
☐ Elastic Coupling ☐ Flexible Coupling
☐ Other _____

Selection Information

Gear Unit Selection Procedure

Selecting a MAXXDRIVE™ gear unit requires three fundamental steps.

1. Pre-selection

A variety of options or methods are provided to aid in the pre-selection.

1.1 Motorized Reducer Method (page 10).
1.2 Input Power Method (page 11).
1.3 Output Torque Method (page 12).
1.4 Variable Output Torque Method (page 13).

2. Check of peak load conditions (page 15).

3. Check of the thermal power capacity (page 16).

Standard Selection Criteria

The standard or default selection criteria are defined as follows:

- Ambient temperature: 68 °F (20°C)
- Ambient air condition: large open area with good air circulation and convection cooling; sustained ambient air velocity approaching $V_L \approx 4.10$ ft/s (1.25 m/s).
- Installation foundation: flat and level steel sub-construction.
- Installation altitude: ≤ 3280 ft (1000 m) above sea level.
- Mounting position: horizontal (page 28).
  – M1 is standard for 2-stage gear units.
  – M3 is standard for 3-stage gear units.
- Lubrication method: oil-splash lubrication.

Our selection procedure accounts for variations in ambient temperature and air conditions, installation altitude, mounting position, lubrication method, and thermal power capacities.

⚠ WARNING ⚠

To assure proper reducer lubrication and cooling during operation, consult NORD when operating input speed requirements exceed 1800 rpm or are below 1200 rpm.

1.1 Pre-selection: Motorized Reducer Method

The selection of the gear reducer is based upon the reducer Input Power (P_1) when utilizing a three-phase induction motor.

1. Determine the nominal input speed (n_{1N}) of the motor.

n_{1N} = 1800 rpm (synchronous speed, 4-pole electric motor)
or
n_{1N} = 1200 rpm (synchronous speed, 2-pole electric motor)

⚠ IMPORTANT NOTE ⚠

Motorized reducer selection tables and reducer power ratings tables are based upon typical input speeds of 1800 rpm or 1200 rpm. For input speeds between 500 and 1800 rpm, one can make a selection based upon the reducer output torque method.

2. Record the required output speed (n_2) or required ratio (i_{req}) of the gear reducer. Calculate i_{req} if n_2 is known, or calculate n_{2l} if i_{req} is known.

$$i_{req} = \frac{n_{1N}}{n_2} \text{ ... or ... } n_2 = \frac{n_{1N}}{i_{req}}$$

3. Determine the operating service factor (f_B) from the service Factor Tables on pages 21 - 25.

4. Use the Gearmotor selection tables to select a gear unit based upon the motor power (P_1), required operating service factor (f_B), and the required gear ratio (i_{req}) or output speed (n_2).

Parallel shaft gear units ⇨ pages 76 – 136
Right-angle gear units ⇨ pages 198 – 255

1.2 Pre-selection: Input Power Method

The selection of the gear reducer is based upon the known Input Power (P_1).

1. **Determine if the nominal input speed (n_{1N}) will be 1800 rpm or 1200 rpm.**

> ⚠ *IMPORTANT NOTE* ⚠
>
> Motorized reducer selection tables and reducer power ratings tables are based upon typical input speeds of 1800 rpm or 1200 rpm. For input speeds between 500 and 1800 rpm maximum, one can make a selection based upon the reducer output torque method.

2. **Record the required output speed (n_2) or required ratio (i_{req}) of the gear reducer. Calculate (i_{req}) if (n_2) is known, or calculate (n_2) if (i_{req}) is known.**

$$i_{req} = \frac{n_{1N}}{n_2} \text{ or ... } n_2 = \frac{n_{1N}}{i_{req}}$$

3. **Record the required input power (P_1). The required input power (P_1) may also be calculated as follows, if one knows the required output speed (n_2) and required reducer output torque (T_2).**

$$P_1 = \frac{T_2 \times n_2}{63025 \times \eta_N} \quad \text{where...}$$

η_N =nominal gear reducer efficiency (page 26)

4. **Determine the Operating Service Factor (f_B) from the table on pages 21 - 25.**

> ⚠ *WARNING* ⚠
>
> Consult NORD if uncertain about what operating service factor (f_B) is required and in cases where a lower service factor than shown in the table on page 21 is desired.

5. **Determine the Input Factor (f_M) from, page 26. This factor will help account for possible torque fluctuations from the type of prime mover.**

6. **Calculate the required rated power (P_N) for the gear reducer as follows:**

$$P_N = P_1 \cdot f_B \cdot f_M$$

7. **Utilize the ratings tables to select a gear unit and gear ratio, in accordance to the input power (P_1) and the required gear ratio (i_{req}) or output speed (n_2).**

Parallel shaft gear units ⇨ pages 76 – 136
Right-angle gear units ⇨ pages 198 – 255

Pre-selection Example Equation:

When the following information is given:

P_1 = 500 Hp (known input power)
n_{1N} = 1800 rpm (input speed; step 1)
n_2 = 80 rpm (required output speed)

Calculated:

$$i_{req} = \frac{n_{1N}}{n_2} = \frac{180}{80} = \textbf{22.5 (required ratio)}$$

Pre-selection Example Application:

Mixer; homogenous materials
Duty Cycle = 5-10 hours daily (page 22)

Service factors - f_B			
Application	Load Duration		
	Up to 5 hrs per day	5-10 hrs per day	Over 10 hrs per day
MIXERS			
for homogeneous material	–	1.35	1.40

f_B = 1.35 (service factor)

Input Factor (takes into account the prime mover) (page 26)

f_M = electric motor = 1.0 (input factor)

f_M	Type of Prime Mover
	Electric motors Hydro motors Turbines
	1

Calculated:

$P_N = P_1 \cdot f_B \cdot f_M$ or $P_N = 500 \cdot 1.35 \cdot 1.0$

Therefore P_N = 675hp

Use this number and the required ratio calculation to look at the Ratings section in order to decide on the proper sized gear unit.

In this case a 22.5 ratio with 675 hp would lead you to choose a 11307 (found on page 80) based on comparing our calculations and the highlighted numbers from the example below.

Nom. Ratio	Nominal Input Speed	Nominal Output Speed	SK 11307		SK 12307	
			Rated Power	Inertia	Rated Power	Inertia
i_N	n_{1N} [rpm]	n_{2N} [rpm]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]
22.4	1200	54	487	7.119	743	12.577
	1800	80	730		1115	
	Exact Ratio i_{ges}		22.32		22.13	
	"Max Torque T_{2max} [lb-in • 1000]"		571		864	

1.3 Pre-selection: Output Torque Method

The selection of the gear reducer is based upon the required Reducer Output Torque (T_2).

1. Determine the nominal input speed (n_{1N}).

> ⚠ *IMPORTANT NOTE* ⚠
>
> Motorized reducer selection tables and reducer power ratings tables are based upon typical input speeds of 1800 rpm or 1200 rpm. For input speeds between 500 and 1800 rpm maximum, one can make a selection based upon the reducer output torque method.

2. Record the required output speed (n_2) or required ratio (i_{req}) of the gear reducer. Calculate (i_{req}) if (n_2) is known, or calculate (n_2) if (i_{req}) is known.

$$i_{req} = \frac{n_{1N}}{n_2} \text{ or ... } n_2 = \frac{n_{1N}}{i_{req}}$$

3. Record the required reducer output torque (T_2). The required reducer output torque (T_2) may also be calculated as follows, if one knows the required output speed (n_2) and required input power (P_1).

$$T_2 = \frac{P_1 \times 63025 \times \eta_N}{n_2}$$ where...

η_N =nominal gear reducer efficiency (page 26)

4. Determine the Operating Service Factor (f_B) from the table on pages 21 - 25.

> ⚠ *WARNING* ⚠
>
> Consult NORD if uncertain about what operating service factor (f_B) is required and in cases where a lower service factor than shown in the table on page 21 is desired.

5. Determine the Input Factor (f_M) from, page 26. This factor will help account for possible torque fluctuations from the type of prime mover.

6. Calculate the required Rated Torque (T_{2max}) for the gear reducer as follows:

$$T_{2MAX} = T_2 \cdot f_B \cdot f_M$$

7. Utilize the ratings tables to select a gear unit and gear ratio, in accordance to the reducer output torque (M_2) and the required gear ratio (i_{req}) or output speed (n_2).

Parallel shaft gear units ⇨ pages 76 – 136
Right-angle gear units ⇨ pages 198 – 255

Pre-selection Example Equation:

When the following information is given:

T_2 = 400,000 lb-in (required output torque)
n_{1N} = 1800 rpm (input speed; step 1)
n_2 = 80 rpm (required output speed)

Calculated:

$$i_{req} = \frac{n_{1N}}{n_2} = \frac{180}{80} = \textbf{22.5 (required ratio)}$$

Pre-selection Example Application:

Mixer; homogenous materials
Duty Cycle = 5-10 hours daily (page 22)

Service factors - f_B			
Application	**Load Duration**		
	Up to 5 hrs per day	**5-10 hrs per day**	**Over 10 hrs per day**
MIXERS			
for homogeneous material	–	1.35	1.40

f_B = 1.35 (service factor)

Input Factor (takes into account the prime mover) (page 26)

f_M = electric motor = 1.0 (input factor)

f_M	**Type of Prime Mover**
	Electric motors Hydro motors Turbines
	1

Calculated:

$T_{2max} = T_2 \cdot f_B \cdot f_M$ or $T_{2max} = 4000{,}000 \cdot 1.35 \cdot 1.0$

Therefore T_2 = 540,000 lb-in (or 540 lb-in · 1000)

Use this number and the required ratio calculation to look at the Ratings section in order to decide on the proper sized gear unit.

In this case a 22.5 ratio with a 540,000 lb-in torque requirement would lead you to select an 11307 (found on page 80) based on comparing our calculations to the highlighted numbers from the example below.

Nom. Ratio	Nominal Input Speed	Nominal Output Speed	SK 11307		SK 12307	
			Rated Power	Inertia	Rated Power	Inertia
i_N	n_{1N} [rpm]	n_{2N} [rpm]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]
	1200	54	487	7.119	743	12.577
	1800	80	730		1115	
22.4	Exact Ratio i_{ges}		22.32		22.13	
	"Max Torque T_{2max} [lb-in • 1000]"		571		864	

1.4 Pre-selection: Variable Output Torque Method

In many gear reducer applications, the required reducer output torque varies from one time interval to the next, over the typical operational duty cycle. In these situations variable torque loads, at constant speed operation, can be converted to an average torque in order to make a selection.

1. **Determine if the Nominal Input Speed (n_{1N}) will be 1800 rpm or 1200 rpm.**

2. **Record the Required Output Speed (n_2) or Required Ratio (i_{req}) of the gear reducer.**

3. **Calculate i_{req} if n_2 is known, or calculate (n_2) if (i_{req}) is known.**

$$i_{req} = \frac{n_{1N}}{n_2} \text{ or ... } n_2 = \frac{n_{1N}}{i_{req}}$$

4. **Calculate the Average Reducer Output Torque (T_{2avg}) as follows:**

$$T_{2avg} = 6.6\sqrt{\left((T_{2.1})^{6.6} \cdot \frac{t_1}{t_t}\right) + \left((T_{2.2})^{6.6} \cdot \frac{t_2}{t_t}\right) + ... + \left((T_{2.n})^{6.6} \cdot \frac{t_n}{t_t}\right)}$$

where:

T_{2avg}	=	Average reducer output torque
$T_{2.1}$ ... $T_{2.n}$	=	Required reducer output torque at a specific time interval.
t_1 ... t_n	=	Specific time interval.
t_t	=	Total duty cycle time, representing all torque and time intervals

5. **Determine the Operating Service Factor (f_B) from the table on pages 21 - 25.**

6. **Determine the Input Factor (f_M) from, page 26. This factor will help account for possible torque fluctuations from the type of prime mover.**

7. **Calculate the required rated torque (T_{2max}) for the gear reducer as follows:**

$$T_{2max} = T_{2avg} \cdot f_B \cdot f_M$$

8. **Use the ratings tables to select a gear unit and gear ratio, in accordance to the average reducer output torque (T_{2avg}) and the required gear ratio (i_{req}) or output speed (n_2) requirements.**

Parallel shaft gear units ⇨ pages 76 – 136
Right-angle gear units ⇨ pages 198 – 255

9. **Using the formula shown, calculate the average input power (P_{1avg}).**

$$P_{1avg} \geq \frac{T_{2avg} \times n_{1N}}{63025 \times i_N \times \eta_N}$$

where:

P_{1avg}	=	Average required input power for a specific time interval.
T_{2avg}	=	Average required reducer output torque
n_{1N}	=	Nominal (motor) input speed
η_N	=	Nominal gear reducer efficiency (page 26)

10. **Using the formula shown, calculate the Required Input Power ($P_{1.n}$) for each portion of the duty cycle. Then determine the maximum ($P_{1.n}$) value.**

$$P_{1.N} \geq \frac{T_{2.N} \times n_{1N}}{63025 \times i_N \times \eta_N}$$

where:

T_{2avg}	=	Average reducer output torque
$T_{2.1}$ ... $T_{2.n}$	=	Required reducer output torque at a specific time interval.
t_1 ... t_n	=	Specific time interval.
t_{ges}	=	Total duty cycle time, representing all torque and time intervals

Selection Information

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11. Select a motor power (P_1) that is equally suited to deliver both the average required power (P_{1avg}), calculated in Step 9, and the maximum required power ($P_{1.n}$ maximum), determined in Step 10.

> ⚠ *IMPORTANT NOTE* ⚠
>
> Utilizing the motor's overload capacity may not be necessary to select the motor power based upon the maximum power required for the duty cycle. Consult your motor supplier and/or NORD if help is needed.

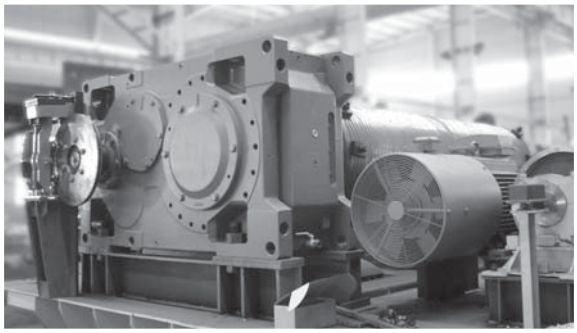
> ⚠ *IMPORTANT NOTE* ⚠
>
> When trying to determine the motor power, it is common practice to round the calculated power to the next available standard motor power.

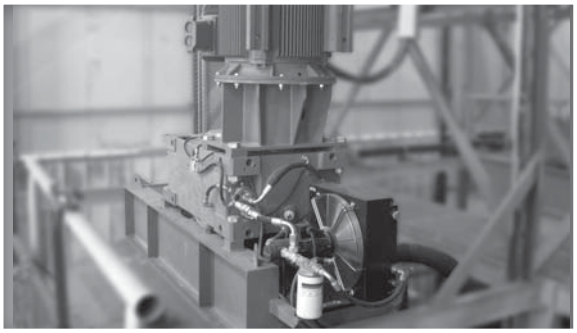
12. Using the selected motor power (P_1) from Step 11, verify that the Rated Torque (T_{2max}) of the selected gear reducer is larger than the value calculated below.

$$T_{2max} \geq \frac{P_1 \cdot i_{ges} \cdot 63205}{n_1} \cdot \eta_N \cdot f_B \cdot f_m$$

where:

P_1 = Motor power determined in step 16
i_{ges} = Exact gear ratio for the gear unit selected in step 16
n_{1N} = Nominal (motor) input speed
η_N = Nominal gear reducer efficiency (page 26)





2. Check of peak load conditions

After the initial pre-selection of the MAXXDRIVE™ gear reducer, the peak load conditions must be determined at the reducer output, and compared to the reducer rated torque, in order to verify that the gear unit has a sufficient mechanical rating or capacity.

The peak load torque is the highest possible torque that may occur in the application. When the equipment builder or machine designer has determined the peak operating loads, these conditions should be considered during the selection verification process. Otherwise peak load torques estimates need to be made.

Methods for Caclulating Gear Reducer Torque

Method 1 : Peak load at the output is known.

If the machine designer or equipment builder knows the peak load developed at the reducer output, the reducer selection can be verified by applying the following formula.

$$T_{2max} \geq T_{2peak} \cdot f_s$$

T_{2max} = Gear reducer rated torque
T_{2peak} = Peak load torque at the reducer output
f_s = Peak load factor (page 26)

Check of Peak Load Example Equation:

We must make sure the gearbox is able to handle the load that will be applied when in operation.

When the following information is given:

Reversing Application with
T_{2peak} = 400,000 lb-in (peak load at reducer output)
f_S = 10x per hour (peak load frequency on page 26)

f_s	Direction of load	Load peaks per hour 6 - 20
	one-directional	0.63
	reversible	0.87

Calculated:

$T_{2max} \geq T_{2peak} \cdot f_s$
or
571,000 ≥ 400,000 · 0.87
or
571,000 ≥ 348,000 = ☑
This drive selection is acceptable based on the equation outcome

Nom. Ratio i_N	Nominal Input Speed n_{1N} [rpm]	Nominal Output Speed n_{2N} [rpm]	SK 11307 Rated Power P_N [hp]	SK 11307 Inertia J_{red} [lb-ft²]	SK 12307 Rated Power P_N [hp]	SK 12307 Inertia J_{red} [lb-ft²]
22.4	1200	54	487	7.119	743	12.577
	1800	80	730		1115	
	Exact Ratio i_{ges}		22.32		22.13	
	"Max Torque T_{2max} [lb-in • 1000]"		571		864	

Max Torque (T_{2max}) From Step 1 (571• 1000)

Method 2 : Peak load at the input is known.

If the machine designer or equipment builder knows the peak load developed at the reducer input, the reducer selection can be verified by applying the following formula.

$$T_{2max} \geq T_{1peak} \cdot i_{ges} \cdot f_S$$

T_{2max} = Gear reducer rated torque
T_{1peak} = Peak load torque at the reducer input
i_{ges} = Exact gear ratio for the selected gear unit
f_s = Peak load factor (page 26)

⚠ IMPORTANT NOTE ⚠

When brakes are supplied between the motor and the gear reducer, or when brake motors are utilized, the peak torque developed by the braking action must also be considered.

Method 3 : Estimating peak load torque at the output

Often, the peak load torque at the reducer output is not known. When this is the case and estimate of the peak load torque can be made from the known input shaft loads and by taking into consideration the Start-Up Factor (f_{AN}).

$$T_{2max} \geq \frac{P_1 \cdot i_{ges} \cdot 63205}{n_1} \cdot \eta_N \cdot f_{AN} \cdot f_s$$

where:
T_{2max} = gear reducer rated torque
P_1 = Motor power determined in step 11
i_{ges} = exact gear ratio for the gear unit selected in step 11
n_1 = input speed to the gear unit
η_N = nominal gear reducer efficiency (page 26)
f_{AN} = start -up factor (page 26)
f_S = peak load factor (page 26)

3. Check of Thermal Power Capacity

Before finalizing the gear reducer selection, one must check to make certain the reducer's thermal power capacity (P_{wg}) exceeds the input power (P_1) or motor power (P_M) being delivered to the gear unit.

$P_{wg} > P_1$ and $P_{wg} > P_M$

⚠ WARNING ⚠

If the gear drive's thermal power capacity is limited there will not be sufficient thermal energy dispersion and the gear unit can overheat causing significant internal damage.

The thermal power capacity of the gear reducer is influenced by a variety of factors. These additional factors must be considered in making the final gear reducer selection:

- Ambient temperature
- Heat transfer to and from adjoining surfaces
- Mechanical loading of the gear unit
- Size and type of gear unit
- Ratio
- Input speed
- Type of lubrication used
- Oil fill level
- Operation duty cycle
- If there is an additional oil circulating system
- If an oil cooling system is utilized
- Ambient conditions and altitude

When to Consult NORD

Consult NORD for a detailed application review if two or more of the following conditions apply:

- Vertical or upright mounting position (M2, M4, M5 or M6).
- Input power P_1 > 670 hp (500 kW)
- Ratio i_{ges} < 14.4 (for bevel gear units i_{ges} < 28.8)
- Input speeds n_1 > 1800 rpm or < 1200 rpm
- Increased ambient temperature > 104°F (40°C)

Consult NORD for recommendations if there are special installation conditions that may affect the operating temperature of the unit. Examples include, but are not limited to, the following:

- Installation in an area with limited air flow
- Exposure to high ambient conditions or heat radiation
- Exposure to solar heating

⚠ WARNING ⚠

For installation outdoors, adequate shading from the sun must be provided.

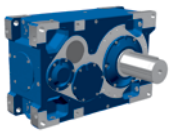
Standard Installation & Operating Conditions

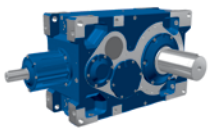
The thermal power rating of the gear unit is always defined at standard installation and operating conditions as follows.

Standard Installation and Operating Conditions

The standard or default selection criteria are defined as follows:

- Ambient temperature: 68 °F (20°C)
- Ambient air condition: large open area with good air circulation and convection cooling; sustained ambient air velocity approaching $V_L \approx 4.10$ ft/s (1.25 m/s).
- Installation foundation: flat and level steel sub-construction.
- Installation altitude: ≤ 3280 ft (1000 m) above sea level.
- Mounting position: horizontal (page 28).
  - M1 is standard for 2-stage gear units.
  - M3 is standard for 3-stage gear units.
- Lubrication method: oil-splash lubrication.
- If water cooled, cooling water inlet temperature: 68 °F (20°C).





Cooling Selection Methods

Method 1 : Applying the Motorized Reducer Selection Tables

When the motorized reducer selection tables (pages 73 – 255) are utilized in the initial gear unit selection, the base thermal power rating ($P_{t0.20}$) is listed in the same table along with other critical performance data. The rating displayed is based upon convection cooling of the gear unit and standard installation and operating conditions apply.

Cooling system options are recommend as shown in the selection table under the column labeled "CS".

Column "CS"	Recommended Cooling System Option
–	Indicates that no additional measures are required so long as standard installation and operating conditions are applicable.
Fan	Fan cooling with shaft-driven fan.
CC	Integrated water cooling coil.
A,B,…H	Letter designates suggested size of either the oil/water or oil/air external cooling system.
Fan	Utilizing fan cooling as opposed to an integrated water cooling coil generates a higher thermal power capacity.

Method 2 : Applying the Reducer Rating Tables

The thermal ratings tables provide the following thermal power capacities that are based upon a 68°F (20°C) temperature condition, along with standard installation and operating conditions. For other temperatures and multiplication factors please see the table on page 26.

- Convection cooling only ($P_{t0.20}$).
- Convection + shaft-driven fan ($P_{tF.20}$).
- Convection + integrated water coil ($P_{tC.20}$).

⚠ WARNING ⚠

Published thermal ratings are based upon standard installation and operating conditions. When this is not the case the thermal power capacity must be verified through direct calculation or analysis.

Method 3 : Direct Calculation or Analysis

The published thermal power ratings are always defined at standard installation and operating conditions. When this is not the case the thermal power capacity must be verified through direct calculation or analysis.

To avoid gear reducer overheating, one must check to make certain the reducer's thermal power capacity (P_{wg}) exceeds the input power (P_1) or motor power (P_M) being delivered to the gear unit.

$P_{wg} > P_1$ and $P_{wg} > P_M$

By utilizing the gear reducer operating factors listed on pages 26 - 27, one can determine the thermal power capacity of the gear reducer, for the type of cooling option that is used or specified.

Aside from relying on pure convection or air cooling, NORD can provide a variety of cooling options to increase the thermal capacity of the gear reducer, including:

- The addition of a shaft-driven fan (page 56)
- The addition of an internal water cooler (page 57)
- The addition of an oil/water cooling system (page 59)
- The addition of an oil/air cooling system (page 59)

Selection Information

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Case 1: Convection Cooling Only

$$P_{wg} = P_{t0.20} \cdot f_t \cdot f_v \cdot f_H \cdot f_{ED} \cdot f_O$$

P_{wg} = Thermal power rating for convection cooling.
$P_{t0.20}$ = Thermal power capacity from fan.
f_t = Ambient temperature factor.
f_v = Ambient air velocity factor.
f_H = Installation altitude factor.
f_{ED} = Duty cycle factor
f_O = Oil supply factor

Case 2: Convection Cooling + Shaft-Driven Fan

$$P_{wg.F} = P_{wg} + P_{tF.20} \cdot f_L \cdot f_H \cdot f_n$$

$P_{wg.F}$ = Calculated thermal rating with an added shaft fan.
P_{wg} = Thermal power rating for convection cooling.
$P_{tF.20}$ = Additional thermal power capacity from fan.
f_L = Fan - cooling air temperature factor.
f_H = Installation altitude factor.
f_n = Input speed factor.

Case 3: Convection Cooling + Integrated Water Coil

$$P_{wg.C} = \frac{P_{wg} +}{d_O} P_{tC.20} \cdot f_w$$

$P_{wg.C}$ = Calculated thermal rating with an added water coil.
P_{wg} = Thermal power rating for convection cooling.
$P_{tC.20}$ = Additional thermal power capacity from water coil.
f_w = Cooling water temperature factor.

Case 4: Convection Cooling + Shaft-Fan + Integrated Water Coil

$$P_{wg.FC} = P_{wg.F} + P_{tC.20} \cdot f_w$$

$P_{wg.FC}$ = Calculated thermal rating with an added shaft, fan and water coil.
$P_{wg.F}$ = Calculated thermal rating with an added shaft fan.
$P_{tC.20}$ = Additional thermal power capacity from water coil.
f_w = Cooling water temperature factor.

⚠ *IMPORTANT NOTE* ⚠

For help in determining the size of the oil cooler or the cooling power capacity (Q_{CS1} or Q_{CS2}) of the oil/air cooler, see separate instructions on page 59.

Case 5: Convection Cooling + Oil/Water Cooling System

$$P_{wg.CS1} = P_{wg} + \left(\frac{Q_{CS1}}{(1-\eta_n)} \cdot f_W \right)$$

$P_{wg.CS1}$ = Calculated thermal rating with a water cooling system.
P_{wg} = Thermal power rating for convection cooling.
Q_{CS1} = Cooling power capacity of the oil/water cooling system
η_N = nominal gear reducer efficiency (page 26)
f_w = Cooling water temperature factor.

Case 6: Convection Cooling + Oil/Air Cooling System

$$P_{wg.CS2} = P_{wg} + \left(\frac{Q_{CS2}}{(1-\eta_n)} \cdot f_L \right)$$

$P_{wg.CS2}$ = Calculated thermal rating with an air cooling system.
P_{wg} = Thermal power rating for convection cooling.
Q_{CS2} = Cooling power capacity of the oil/air cooling system
η_N = nominal gear reducer efficiency (page 26)
f_L = Fan cooling air temperature factor.

Radial Overhung Load [F_R]

A radial overhung load force (F_R) exists when a resultant force is applied to the reducer shaft, by transferring power at a right angle, through an externally mounted power transmission device, such as a belt pulley, chain sprocket, or gear.

The motorized reducer selection tables (pages 73 – 136 & 198 - 255) list the permissible radial overhung load force (F_R) that may be applied to the reducer output shaft and bearings. The forces listed apply to foot-mounted and flange-mounted gear units with solid shafts.

The overhung load ratings are…

- to be applied at the midpoint of the shaft.
- to be applied without thrust loads.
- based upon the least favorable loading direction and least favorable direction of rotation.

When calculating the applied radial overhung load force (F_{Rvorh}), corresponding power transmission factor (f_z) must be taken into account.

$$F_{OHL} = \frac{2 \cdot T_2}{d_O} \cdot f_Z \cdot f_B \leq F_R$$

F_{OHL} = calculated radial load force on the reducer output shaft.
F_R = permissable radial overhung load force [lb]
T_2 = output torque of gear reducer [lb-in]
d_O = effective pitch diameter of external power transmission device [in]
f_Z = power transmission factor
f_B = operating service factor

Transmission Component	Power Transm. Factor [fz]	Notes
Gear	1.1	17 teeth or less
Gear	1.2	18 teeth or more
Chain sprocket	1.4	13 teeth or less
Chain sprocket	1.2	13 to 20 teeth
Chain sprocket	1.0	20 teeth or more
Timing belt pulley	1.5	---
V-belt pulley	1.7	---
Flat belt pulley	2.5	---

Axial/Thrust Load [F_A]

Loads that are directed towards or away from the gearbox, along the axis of the shaft, are called thrust or axial loads (F_A).

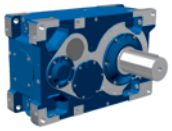
Axial force ratings are

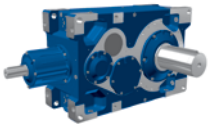
- to be applied without radial loads.
- based upon the least favorable loading direction and least favorable direction of rotation.

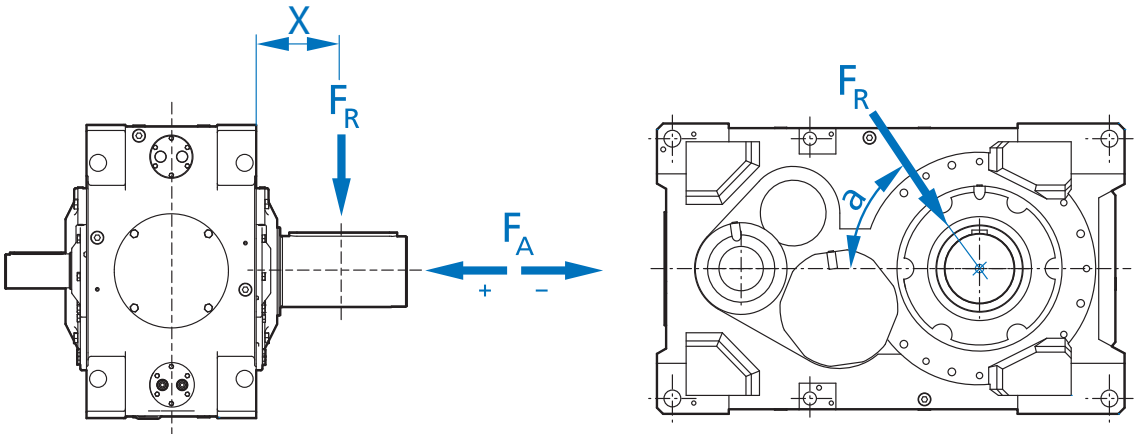
⚠ IMPORTANT NOTES ⚠

- Consult NORD if the applied radial load force is not at the center of the output shaft or if evaluation of an input shaft overhung load is required.
- Both (F_R) and the permissible rated thrust/axial load force (F_A) are based upon an operating service factor condition f_B=1.0.
- In cases where the reducer is subjected to high inertia loads, shock load conditions, suddenly applied forces or long periods of operation, (> 5 hours/day) an appropriate operating service factor f_B >1 must be considered.
- When checking the applied radial and axial load forces the appropriate service factor must be applied.
- Please consult NORD if a combined overhung load and thrust load are applied simultaneously.
- Higher radial and axial forces may be possible. For a precise calculation, please state the direction and location of the applied force/s, the desired rotation of the shaft, and the required operating life.

Selection Information







Parallel Gear Unit Overhung Load Ratings

Gear Unit	x [in]	F_R [lbf] ..207 < 125 rpm		..307 < 70 rpm		..307 < 20 rpm	
		Std. Bearings	VL Bearings	Std. Bearings	VL Bearings	Std. Bearings	VL Bearings
SK 7..07	5.79	674	8093	2473	12140	5620	15062
SK 8..07	5.79	225	7644	1798	11915	4721	14388
SK 9..07	7.70	23380	25628	24954	24954	25179	25179
SK 10..07	7.70	23380	24504	21357	21357	21806	21806
SK 11..07	8.27	19334		15961		16186	
SK 12..07	9.25	25853		32372		34171	
SK 13..07	11.14	34621		35969		35969	
SK 15..07	10.83	22931		34845		35969	

Right-Angle Gear Unit Overhung Load Ratings

Gear Unit	x [in]	F_R [lbf] ..407 < 125 rpm		..407 < 70 rpm		..507 < 20 rpm	
		Std. Bearings	VL Bearings	Std. Bearings	VL Bearings	Std. Bearings	VL Bearings
SK 7..07	5.79	1798	9892	2023	10791	8768	15062
SK 8..07	5.79	1349	9892	1574	10566	8318	14163
SK 9..07	7.70	26977	26977	25628	25628	24954	24954
SK 10..07	7.70	26078	26078	23605	23605	21357	21357
SK 11..07	8.27	22256		17760		14163	
SK 12..07	9.25	29450		33047		33272	
SK 13..07	11.14	35969		35969		35969	
SK 15..07	10.83	35969		35969		35969	

Service Factors f_B

The operating factor provides the minimum recommended service factor for various applications and takes into account the usual conditions for the particular application listed. If the operating service factor is known for the application, this should be used. If no values are available for the application, refer to the tables below or consult with NORD to determine a suitable service factor.

Service factors - f_B			
Application	**Load Duration**		
	Up to 5 hrs per day	**5-10 hrs per day**	**Over 10 hrs per day**
WASTE WATER			
Concentrator (central drive)	1.15	1.25	1.50
Filter presses	1.00	1.30	1.50
Vacuum filter	1.15	1.30	1.50
Flocculation agitator	0.80	1.00	1.30
Aerator	2.00	2.00	2.00
Circular aerator	–	1.80	2.00
Brush aerator	–	–	2.00
Screening plant	1.00	1.20	1.30
Circular and longitudinal scrapers	1.00	1.30	1.50
Collectors	1.15	1.25	1.50
Sludge collectors	1.25	1.25	1.25
Pre-concentrator	–	1.10	1.30
Sludge compressor	1.50	1.50	1.50
Achimedian screw water pumps	–	1.30	1.50
Water turbines	–	–	2.00
Settling tanks	1.00	1.00	1.25
Chemical substance loaders	1.25	1.25	1.25
Dehydration screens	1.50	1.50	1.50
Slag crushers	1.50	1.50	1.50
Slow or fast mixers	1.50	1.50	1.50
PUMPS			
Impeller pumps	1.15	1.35	1.45
Displacement pumps			
1 Piston	1.35	1.50	1.80
> 1 Piston	1.20	1.40	1.50
EXCAVATORS			
Bucket chain	–	1.60	1.60
Tippers	–	1.30	1.50
Tracklaying vehicles	1.20	1.60	1.80
BUCKET WHEELS			
as pick-ups	–	1.70	1.70
for original material	–	2.20	2.20
Cutting heads	–	2.20	2.20
Slewing gear [1)]	–	1.40	1.80
DREDGERS			
Conveyors	1.25	1.25	1.50
Cutting head drives	2.00	2.00	2.00
Screens	1.75	1.75	2.00
Stackers	1.25	1.25	1.50
Hoisting winches	1.25	1.25	1.50

Service factors - f_B			
Application	**Load Duration**		
	Up to 5 hrs per day	**5-10 hrs per day**	**Over 10 hrs per day**
MINING			
Crushers	1.55	1.75	2.00
Vibrators and screens	1.55	1.75	2.00
Slewing gear	–	1.55	1.80
BUCKET WHEEL EXCAVATORS			
Grinding machine for sand	1.25	1.25	1.50
Hammer mills	1.75	1.75	2.00
CHEMICAL INDUSTRY			
PLASTICS			
Extruders	–	–	1.60
Extruders (plastics)	–	1.40	1.60
- with variable speed	1.50	1.50	1.50
- with fixed speed	1.75	1.75	1.75
Batch kneaders	1.75	1.75	1.75
Continuous mixers	1.50	1.50	1.50
Mixing plant	1.25	1.25	1.25
Calenders	1.50	1.50	1.50
Blower units	1.50	1.50	1.50
Coating	1.25	1.25	1.25
Films	1.25	1.25	1.25
Pre-shredder	1.50	1.50	1.50
Bars	1.25	1.25	1.25
Sheets	1.25	1.25	1.25
Tubes	1.25	1.25	1.50
RUBBER			
Extruders (rubber)	–	1.50	1.80
Rubber kneader	–	1.80	1.80
Continuous mixers	1.50	1.50	1.50
Refiners - two-cylinder	1.50	1.50	1.50
Rubber rollers (2 in series)	1.55	1.75	2.00
Rubber rollers (3 in series)	–	1.50	1.75
Heating rollers	1.35	1.50	1.75
Rubber calenders	–	1.50	1.50
Calenders	–	1.65	1.65
Cooling drums	–	1.30	1.40
Mills	1.55	1.75	2.00
Sheet rollers	1.55	1.75	2.00
Refining rollers	1.55	1.75	2.00

[1)] Select according to the maximum torque

Service Factor

NORD DRIVESYSTEMS

Service factors - f_B			
Application	**Load Duration**		
	Up to 5 hrs per day	**5-10 hrs per day**	**Over 10 hrs per day**
CHEMICAL INDUSTRY (CTD.)			
MIXERS			
for homogeneous material	–	1.35	1.40
for inhomogeneous material	1.40	1.60	1.70
AGITATORS FOR AGITATED MATERIALS			
with uniform density	1.00	1.30	1.50
with varying density	1.20	1.50	1.65
with uneven gassing	1.40	1.60	1.80
Toasters	1.00	1.30	1.50
Centrifuges	1.00	1.20	1.30
IRON SMELTING METAL PRODUCTION AND PROCESSING			
Sheet turning device	1.00	1.00	1.20
Block press	1.00	1.20	1.20
Reelers	–	1.60	1.60
Cooling bed scrapers	–	1.50	1.50
Sheet pusher	1.50	1.50	1.50
Winders / Coiling machines	–	1.60	1.75
Cutting rollers	1.55	1.75	2.00
Wire-pulling machines	1.35	1.50	1.75
Sheet metal bending machines [1]	–	1.00	1.00
ROLL-ALIGNING MACHINES			
Roller conveyors - continuous	–	1.50	1.50
Roller conveyors - intermittent	–	2.00	2.00
Tube reversing	–	1.80	1.80
SHEARING			
General	2.00	2.00	2.00
Continuous cutting [1]	–	1.50	1.50
Cranked cutting [1]	1.00	1.00	1.00
Continuous casting drivers [1]	–	1.40	1.40
ROLLERS			
Sheet metal reversing	–	2.50	2.50
Sheet slab reversing	–	2.50	2.50
Wire reversing	–	1.80	1.80
Thin sheet metal reversing	–	2.00	2.00
Thick sheet metal reversing	–	1.80	1.80
Roller adjusters	0.90	1.00	–
ENERGY			
Frequency converters	–	1.80	2.00
Water wheels	–	–	1.70
Water turbines	–	–	2.00
Electricity generators	1.00	1.00	1.25

Service factors - f_B			
Application	**Load Duration**		
	Up to 5 hrs per day	**5-10 hrs per day**	**Over 10 hrs per day**
CONVEYOR PLANT			
Bucket conveyors	–	1.40	1.50
Bucket conv. with centrifugal emptying	1.15	1.15	1.25
Conveyor reels	1.40	1.60	1.60
LOADERS			
Plate feeder	1.25	1.25	1.50
Belt feeder	1.15	1.15	1.50
Table feeder	1.00	1.00	1.25
Swivelling loader	1.75	1.75	2.00
Helical loader	1.15	1.25	1.50
Conveyers	–	1.50	1.80
Evenly distributed load	1.15	1.15	1.25
Heavy duty	1.25	1.25	1.50
Unevenly distributed load	1.25	1.25	1.50
Belt conveyors ≤ 100 kW	1.15	1.25	1.40
Belt conveyors > 100 kW	1.15	1.30	1.50
Goods lifts [1]	–	1.20	1.50
Vertical conveyors - other	–	1.50	1.80
Passenger lifts [1]	–	1.50	1.80
Slat conveyors	–	1.25	1.50
Vibrators and screens	1.55	1.75	2.00
Swinging or vibrating conveyors	1.75	1.75	2.00
Escalators	1.15	1.25	1.55
Rail vehicles	–	1.50	–
ELEVATORS			
Loading	1.25	1.25	1.50
Gravity emptying	1.15	1.15	1.25
HOISTING WINCHES [1]			
Heavy duty	1.75	1.75	2.00
Medium duty	1.25	1.25	1.50
Inclined lifts	1.25	1.25	1.50
WOOD INDUSTRY			
GENERAL			
Debarking machines - spindle feed	1.25	1.25	1.50
Main drive	1.75	1.75	1.75
Conveyors - Burners	1.25	1.25	1.50
Main or heavy duty	1.50	1.50	1.50
Main trunk	1.75	1.75	2.00
Sawing, carousel	1.25	1.25	1.50

[1] Select according to the maximum torque

Service Factor

Service factors - f_B			
Application	**Load Duration**		
	Up to 5 hrs per day	**5-10 hrs per day**	**Over 10 hrs per day**
WOOD INDUSTRY (CTD.)			
CONVEYORS			
Plate	1.75	1.75	2.00
Transfer	1.25	1.25	1.50
CHAINS			
Floor	1.50	1.50	1.50
Green wood	1.50	1.50	1.75
MANUAL SAWING			
Chain	1.50	1.50	1.75
Work driver	1.50	1.50	1.75
Paring cylinder	1.75	1.75	2.00
FEEDS			
Trimming machine	1.25	1.25	1.50
Multiple blades	1.75	1.75	1.75
Cutter	1.25	1.25	1.50
Stacked trunks	1.75	1.75	1.75
Trunk conveyor - ramp with wheels	1.75	1.75	1.75
Trunk tipping device	1.75	1.75	1.75
Planing machine feed	1.25	1.25	1.50
Trunk tipping roller trains	1.50	1.50	1.50
With rollers	1.75	1.75	1.75
Selection table	1.25	1.25	1.50
Roller train with tilting table	1.25	1.25	1.50
POSITIONING PLATFORMS			
Chain	1.50	1.50	1.75
Track	1.50	1.50	1.75
Plate drive	1.25	1.25	1.50
Drives for veneer turning machines	1.25	1.25	1.50
COMPACTORS			
Compactors	2.00	2.00	2.00
CRANES [1] / [2]			
CRANES AND LIFTING GEAR			
Slewing gear [1]	1.00	1.40	1.80
Derricking gear	1.00	1.10	1.40
Bridge trolleys for portal cranes	3.00	3.00	3.00
Bridge trolleys	1.10	1.60	2.00
Lifting gear	1.00	1.10	1.40
Luffing gear	1.00	1.20	1.60

Service factors - f_B			
Application	**Load Duration**		
	Up to 3 hrs per day	**5-10 hrs per day**	**Over 10 hrs per day**
CRANES [2] / [1] (CTD.)			
REPAIR DOCKS			
Main pulley system	2.50	2.50	2.50
Auxiliary pulley system	2.50	2.50	3.00
Arm pulley systems	2.50	2.50	3.00
Yaw drive	2.50	2.50	3.00
Traveling drive	3.00	3.00	3.00
INDUSTRIAL USE			
Main pulley system	2.50	2.50	3.00
Auxiliary pulley system	2.50	2.50	3.00
Bridge cranes	3.00	3.00	3.00
Traveling drive for crane car	3.00	3.00	3.00
MILLS AND DRUMS			
Cooling and drying drums	–	1.50	1.60
Rotary kilns	–	–	2.00
Ball mills	–	–	2.00
Coal mills	–	1.50	1.75
ROTARY MILLS			
Ball and rod mills	2.00	2.00	2.00
Cylindrical ring gear	2.00	2.00	2.00
Helical ring gear	1.50	1.50	1.50
Direct coupling	2.00	2.00	2.00
Cement kilns	1.50	1.50	1.50
Dryers and coolers	1.50	1.50	1.50
FOODSTUFFS INDUSTRY			
Cane sugar production			
Sugar cane knives [1]	–	–	1.70
Sugar cane mills	–	–	1.70
Diced mash	–	–	1.20
Extraction system, cooling machine, boiler	–	–	1.40
Beet washing, cutting machine	–	–	1.50
Beet peeling machine	2.00	2.00	2.00
Oil mills	1.50	1.50	1.50
Mills (low speed)	1.75	1.75	1.75
Kneading machines	1.25	1.25	1.50
Mincing machines	1.25	1.25	1.50
Slicing machines	1.25	1.25	1.50
Crushers and mills	–	–	1.75
Drying drums	–	1.25	1.50

[1] Select according to the maximum torque

[2] Precise categorisation of the load can be carried out e.g. according to FEM1001.

Service Factor

Service factors - f_B			
Application	**Load Duration**		
	Up to 5 hrs per day	**5-10 hrs per day**	**Over 10 hrs per day**
PAPER MACHINES / PAPER AND CELLULOSE INDUSTRY			
all types [3]	–	1.80	2.00
PULPER DRIVES			
Debarking drums and machines	1.55	1.80	–
Rollers (pick-up. screen suction and screen feed rollers)	–	1.80	2.00
Drying cylinders (roller bearings)	–	1.80	2.00
Calenders (roller bearings)	–	1.80	2.00
Filters (Pressure and suction filters)	–	1.80	2.00
Chopping machines and shredders	1.55	1.75	2.00
Jordan mills	–	1.50	1.75
Presses (bark, felt, gluing and suction presses)	–	–	1.75
Rolling devices	–	–	1.75
HYDRAPULPERS			
Washing filters	–	–	1.50
Yankee cylinders (dryers)	1.25	1.25	1.25
Agitators (kneaders)	1.50	1.50	1.50
Agitators for pure liquor	1.25	1.25	1.25
Paring cylinder	2.00	2.00	2.00
Debarking machines (mechanical)	2.00	2.00	2.00
Refiners	1.50	1.50	1.50
Paper shredders	1.25	1.25	1.25
Calenders	1.25	1.25	1.25
Shredders	2.00	2.00	2.00
chip loaders	1.50	1.50	1.50
Patination cylinders	1.25	1.25	1.25
CONVEYORS			
Chips. bark. chemicals	1.25	1.25	1.25
Trunk (incl. table)	2.00	2.00	2.00
Sleeve presses	1.25	1.25	1.25
Millers	2.00	2.00	2.00
Cylindrical tools	1.25	1.25	1.25

Service factors - f_B			
Application	**Load Duration**		
	Up to 5 hrs per day	**5-10 hrs per day**	**Over 10 hrs per day**
HYDRAPULPERS (CTD)			
DRYERS			
Paper machine	1.25	1.25	1.25
with conveyors	1.25	1.25	1.25
Embossing machines	1.25	1.25	1.25
Extrusion presses	1.50	1.50	1.50
Pulp refiners	1.50	1.50	1.50
Kiln drives	1.50	1.50	1.50
Paper rollers	1.25	1.25	1.25
Plates	1.50	1.50	1.50
Presses - mat and suction	1.25	1.25	1.25
Kneading machines	2.00	2.00	2.00
Vacuum pumps	1.50	1.50	1.50
Flat reelers	1.25	1.25	1.25
SCREENS			
Chips	1.50	1.50	1.50
Rotating screens	1.50	1.50	1.50
Vibrating screens	2.00	2.00	2.00
Glue presses	1.25	1.25	1.25
Super calender	1.25	1.25	1.25
Concentrator (AC motor)	1.50	1.50	1.50
Concentrator (DC motor)	1.25	1.25	1.25
Washing machine (AC motor)	1.50	1.50	1.50
Washing machine (DC motor)	1.25	1.25	1.25
Coiling and uncoiling holders	1.25	1.25	1.50
Surface rinsing machines	1.25	1.25	1.25
PUMPS			
Pumps	–	1.40	1.50
Centrifugal pumps /Impeller pumps	1.15	1.35	1.45
Piston pumps (1 cylinder)	1.35	1.50	1.80
Piston pumps (multiple cylinders)	1.20	1.40	1.50
Archimedian pumps	–	1.25	1.50
Rotary pumps (gear pumps. vane pumps. positive displacement rotary pumps)	–	–	1.25

[3] Thermal investigation is generally necessary

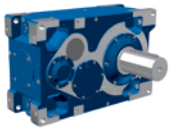
Service Factor

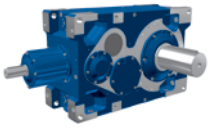
Service factors - f_B			
Application	**Load Duration**		
	Up to 5 hrs per day	**5-10 hrs per day**	**Over 10 hrs per day**
AGITATORS AND MIXERS			
Agitators for liquids	1.00	1.25	1.50
Agitators for liquids (with suspended solids)	1.25	1.25	1.50
Agitators for liquids (variable density)	1.20	1.50	1.65
Agitators for solid media (inhomogeneous materials)	1.40	1.60	1.70
Agitators for solid media (homogeneous materials)	–	1.35	1.40
CABLE RAILWAYS			
Materials cableways	–	1.40	1.50
Pendulum cableways	–	1.60	1.80
Ski tows	–	1.30	1.40
Circulating cableways	–	1.40	1.60
Fixed cable cableways			
SCREENS			
Air washers	1.00	1.00	1.25
Rotary screen - stone or gravel	1.25	1.25	1.50
Mobile screens with water input	1.00	1.00	1.25
TEXTILE MACHINERY			
General	1.25	1.25	1.50
VENTILATORS AND FANS			
Centrifugal fans	1.00	1.00	1.25
Pressure ventilated fans	1.25	1.25	1.25
Push-pull counterflow fans	1.50	1.50	1.50
Industrial and mining fans	1.50	1.50	1.50
Blowers (axial and radial)	1.50	1.50	1.50
Centrifugal blowers	1.00	1.00	1.25
Rotary blowers	1.25	1.25	1.50
Rotary vane blowers	1.25	1.25	1.50
Heat exchangers	1.50	1.50	1.50
Cooling tower fans	–	–	2.00
Dry cooling towers	–	–	2.00
Wet cooling towers	2.00	2.00	2.00

Service factors - f_B			
Application	**Load Duration**		
	Up to 5 hrs per day	**5-10 hrs per day**	**Over 10 hrs per day**
COMPRESSORS			
Piston compressors	–	1.80	1.90
Rotary compressors	–	1.40	1.50
Radial compressors	–	1.40	1.50
Screw compressors	–	1.50	1.75
Centrifugal compressors	1.25	1.25	1.50
Rotary vane compressors	1.25	1.25	1.50
Multi-cylinder reciprocating piston compressors	1.50	1.50	1.75
Single cylinder reciprocating piston compressors	1.75	1.75	2.00
CEMENT INDUSTRY AND CLAY PROCESSING			
Concrete mixers	1.50	1.50	1.75
Crushers [1)]	1.55	1.75	2.00
Rotary kilns	–	–	2.00
Tube mills	–	–	2.00
Separators	–	1.60	1.60
Rolling mills	–	–	2.00
Brick presses	1.75	1.75	2.00
Tile presses	1.75	1.75	2.00
Kneading machines	1.25	1.25	1.50

[1)] Select according to the maximum torque

Gear Unit Selection Factors





NORD DRIVESYSTEMS

Efficiency for Calculations η_N

The stated efficiency is only to be used for calculation purposes and does not correspond to the actual efficiency of the gear unit. The factor applies to a normal oil level and the installation positions M1 or M3. An increased oil level causes reduced efficiency.

η_N	Calculated Efficiency			
	SK..207	SK..307	SK..407	SK..507
	0.975	0.960	0.955	0.935

Input factors f_M (Primary Mover)

Additional torque fluctuations due to the type of input machinery are taken into account with the input factor.

f_M	Type of Prime Mover		
	Electric motors Hydro motors Turbines	Piston machines 4-6 cylinder. Degree of inequality 1: 100 to 1 : 200	Piston machines 1 - 3 cylinder. Degree of inequality 1: 100
	1	1.25	1.5

Start-up factors f_{AN}

The start-up factor must be taken into account if the torque applied to the drive during start-up is not known. If the ratio between the start-up torque and the input torque is known. this may be used in the calculation.

f_{AN}	Type of drive running					
	Direct drive	Soft start	Frequency inverter	Star/ Delta	Fluid coupling	Fluid coupling with delay chamber
	3	1.8	1.5...2.0 [1)]	1.3	2	1.6

[1)] Depending on the start-up ramp setting

Peak load factor with reversing factor f_s

The peak load factor takes into account the frequency and direction of peak loads.

f_s	Direction of load	Load peaks per hour					
		1 - 5	6 - 20	21 - 40	41 - 80	81 - 160	> 160
	one-directional	0.50	0.63	0.70	0.79	0.88	1.05
	reversible	0.70	0.87	0.97	1.09	1.22	1.46

Ambient temperature factors f_t

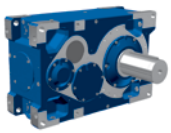
Takes into account the possibility of heat dissipation at various cooling air temperatures.

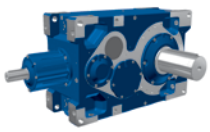
f_t	Gearbox cooling	Ambient temperature								
		50°F (10°C)	59°F (15°C)	68°F (20°C)	77°F (25°C)	86°F (30°C)	95°F (35°C)	104°F (40°C)	113°F (45°C)	122°F (50°C)
	convectional cooling	1.14	1.07	1.00	0.93	0.86	0.79	0.71	0.64	0.57

Air movement factors f_v

The airspeed over the gearbox influences the dissipation of heat by convectional methods.

f_v	Air movement over gearbox		
	small room, little air movement air speed = 1.64 ft/s	large room with free air movement air speed = 1.25 ft/s	continuous strong air movement air speed = 13.1 ft/s
	0.72	1.00	1.28





Installation altitude factors f_H

The installation altitude factor takes into account the lower heat dissipation of the gearbox at higher altitudes

f_H	Installation altitude above sea level				
	0 ft	3,280 ft	6,560 ft	9,840 ft	13,120 ft
	1.00	0.96	0.91	0.87	0.83

Switch-on time factor f_{ED}

With lower switch-on times, the heat generated by the gearbox decreases.

f_{ED}	Switch-on time				
	100 %	80 %	60 %	40 %	20 %
	1.00	1.08	1.19	1.37	1.75

Oil supply factors f_O

Higher oil levels decrease the efficiency and cause higher gearbox temperatures. This can be taken into account with the following factors. For installation positions other than M1 or M3, please consult NORD.

f_O	Installation position		Type of lubrication		
			Oil bath lubrication	Pressure lubrication	Full oil level
	horizontal	M1 / M3	1.0	1.2	0.6
	vertical	M5	0.6	0.9	0.5
	vertical	M6	0.6	0.9	0.5
	standing	M2	0.4	1.0	0.3
	standing	M4	0.5	0.9	0.4

Cooling air temperature factor f_L

Takes into account the possibility of heat dissipation at various cooling air temperatures

f_L	Air temperature at fan inlet					
	15°C (59°F)	20°C (68°F)	25°C (77°F)	30°C (86°F)	35°C (95°F)	40°C (104°F)
	1.09	1.00	0.91	0.82	0.73	0.64

Speed factor f_n

By means of the speed factor, the speed can be approximately taken into account. For speeds n_{1N}= 1000 / 1500 / 1200 / 1800 RPM power tables have been produced, to provide more accurate figures.

f_n	Input speed in min^{-1}								
	500	750	800	900	1000	1200	1400	1500	1800
	0.28	0.42	0.44	0.50	0.56	0.67	0.78	0.83	1.00

Cooling water temperature factors f_w

Cooling water with a temperature above 68°F (20°C) reduces the cooling capacity of the cooling system. For intermediate temperatures, the factor for the next higher temperature must be selected.

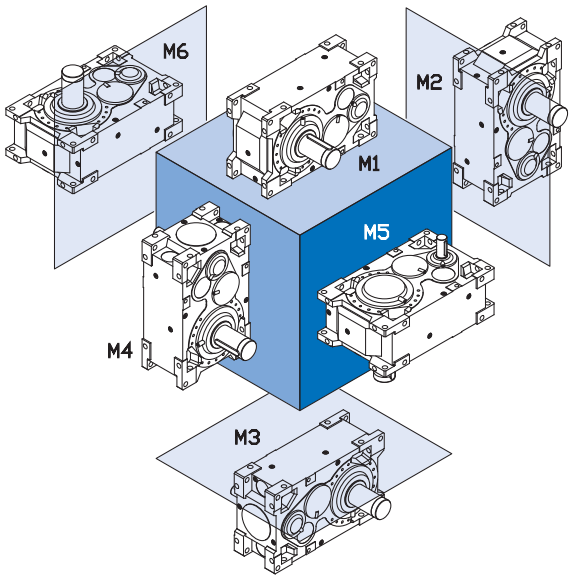
f_w	Water inlet temperature			
	15°C (59°F)	20°C (68°F)	25°C (77°F)	30°C (86°F)
	1.17	1.00	0.83	0.67

Mounting Configuration

Mounting Position System

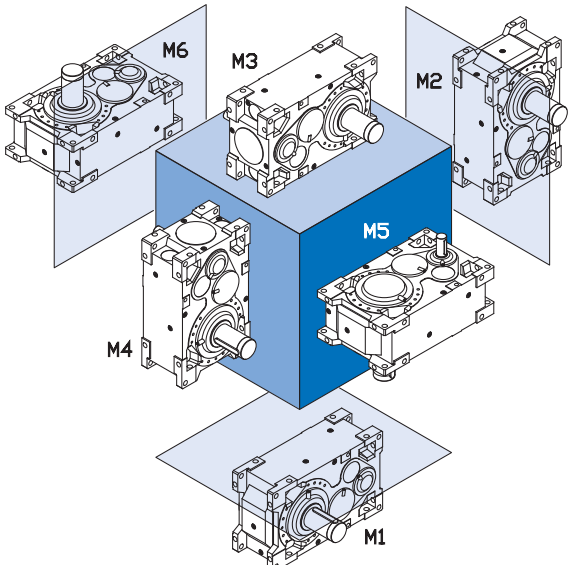
For gear units and gear motors, NORD specifies between six installation positions from M1 to M6 as shown in the following diagrams. The M1 and M3 mounting surfaces vary between the 2 and 3 stage parallel products.

MAXXDRIVE™ 2-Stage Parallel Gear Unit



M1	2-Stage unit standard Installation
M2	Output shaft located on upper end of gearbox
M3	3-Stage unit standard installation
M4	Output shaft located on lower end of gearbox
M5	Output shaft facing downwards
M6	Output shaft facing upwards

MAXXDRIVE™ 3-Stage Parallel Gear Unit



M1	2-Stage unit standard installation
M2	Output shaft located on upper end of gearbox
M3	3-stage unit standard installation
M4	Output shaft located on lower end of gearbox
M5	Output shaft facing downwards
M6	Output shaft facing upwards

Pivoted and Variable Mounting Positions

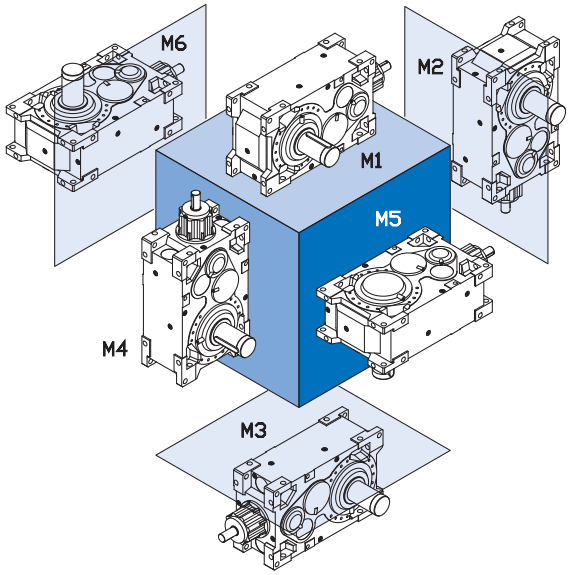
If you have any mounting requirements that vary from the standard positions, please consult NORD.

Mounting Configuration

Mounting Position System

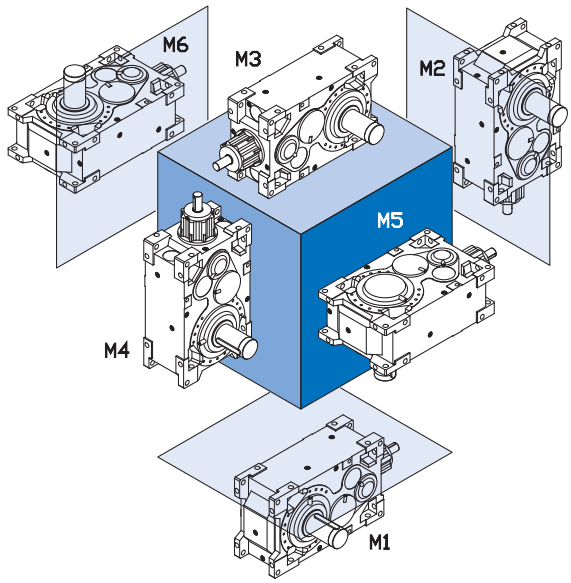
For gear units and gear motors, NORD specifies between six installation positions from M1 to M6 as shown in the following diagrams. The M1 and M3 mounting surfaces vary between the 3 and 4 stage units within the right-angle products.

MAXXDRIVE™ 3-Stage Bevel Gear Unit



M1	3-Stage unit standard Installation
M2	Output shaft located on upper end of gearbox
M3	4-Stage unit standard Installation
M4	Output shaft located on lower end of gearbox
M5	Output shaft facing downwards
M6	Output shaft facing upwards

MAXXDRIVE™ 4-Stage Bevel Gear Unit



M1	3-Stage unit standard Installation
M2	Output shaft located on upper end of gearbox
M3	4-Stage unit standard installation
M4	Output shaft located on lower end of gearbox
M5	Output shaft facing downwards
M6	Output shaft facing upwards

Pivoted and Variable Mounting Positions

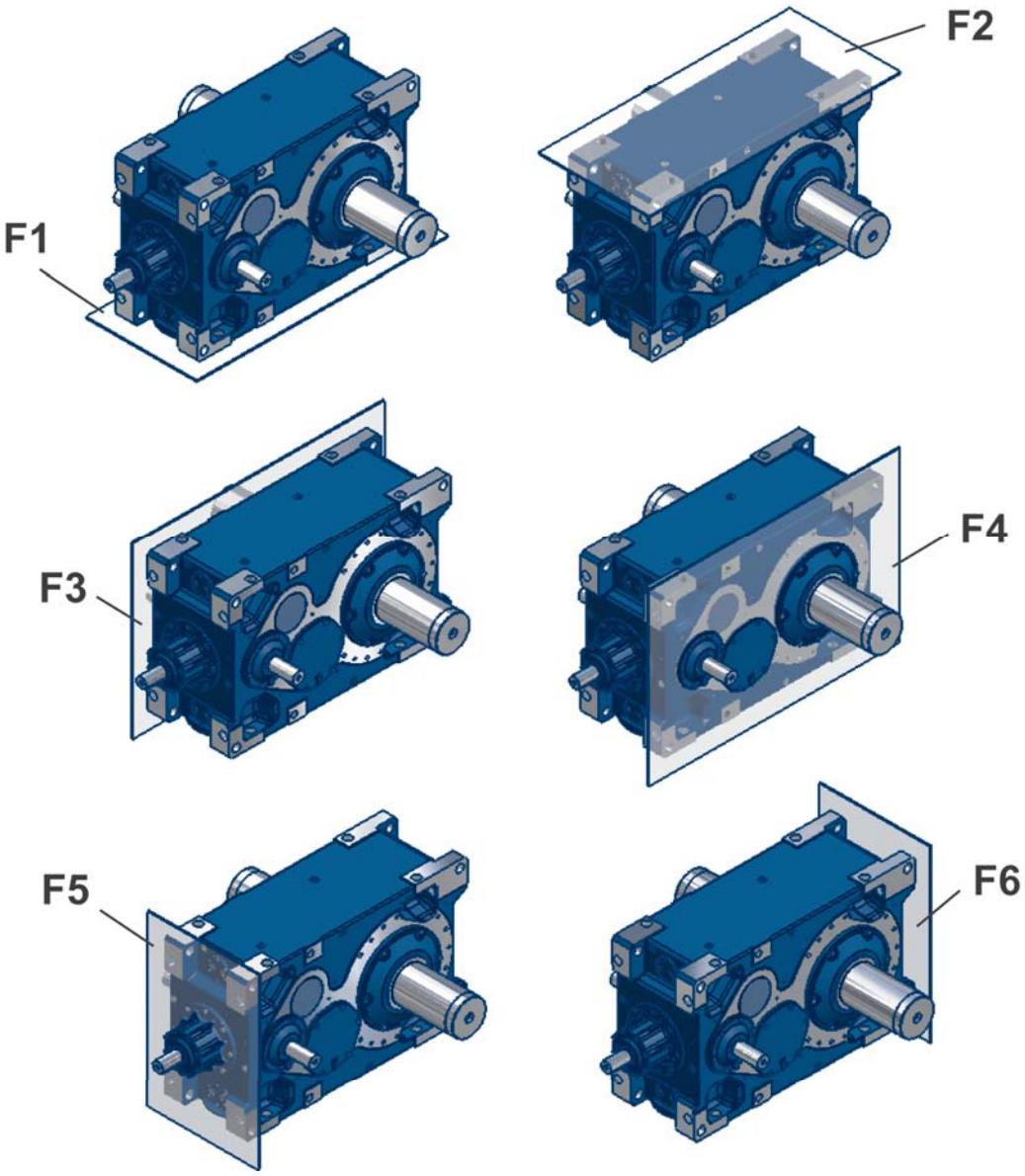
If you have any mounting requirements that vary from the standard positions, please consult NORD.

Mounting Surfaces

Mounting Surfaces

The mounting surface specifies the side on which the gear unit is fixed. Six mounting surfaces are available based on the diagrams below (F1 - F6).

In the following diagram, the mounting surfaces for mounting position M1 are indicated.

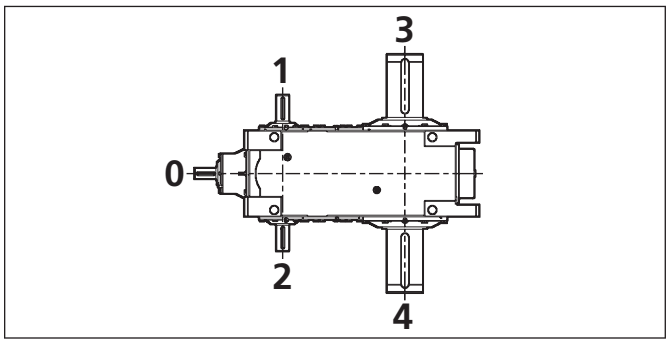


Mounting Configuration

NORD provides gearmotors, speed reducers and motors that can be configured very differently to suit customer needs. When ordering, it is beneficial that the drive be specified exactly the way you want it delivered.

Shaft Configuration

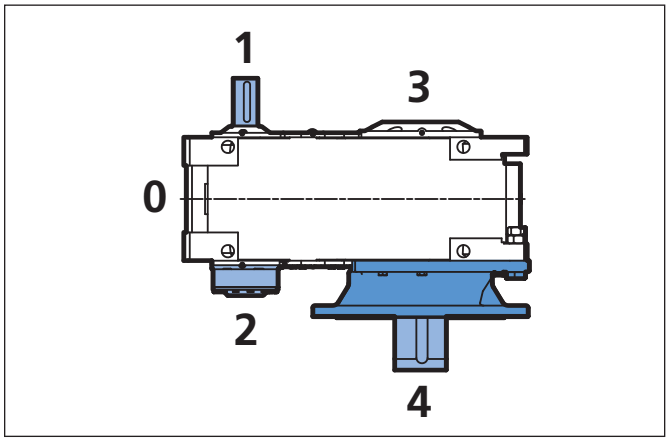
The positions of the required shaft outlets are determined by viewing the gearbox from above in a default horizontal mounting position. M1 is the default (standard) for 2-stage parallel and 3-stage helical-bevel gear units. Mounting position M3 is the default (standard) for 3-stage gear parallel and 4-stage helical-bevel units.



Position of Attachments

The positions of attached elements such as backstops, fans, flange-mounted pumps, drive flanges, agitator flanges etc. are determined according to the same principle as the shaft positions.

Example:



Where:

0 = ---
1 = End of the input shaft
2 = Backstop
3 = ---
4 = Output Shaft & Output Flange

Terminal box and cable entry

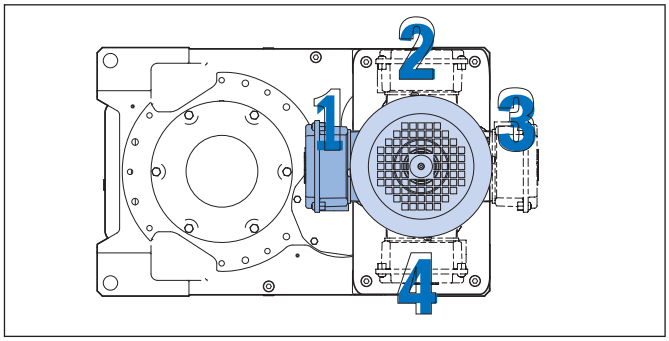
In the standard position, the terminal box is on the left hand side looking at the motor from the rear

If another arrangement is required, please express during ordering. Whenever ordering the cable entry in position IV please request information from NORD.

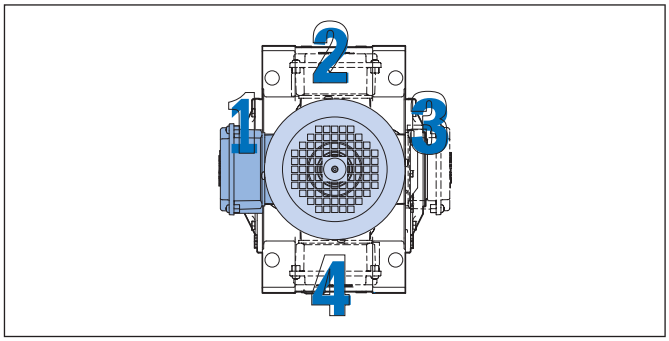
In brake motors between frame size 63 to 132, the cable entry is only available in positions I and III.

Terminal Box positions:

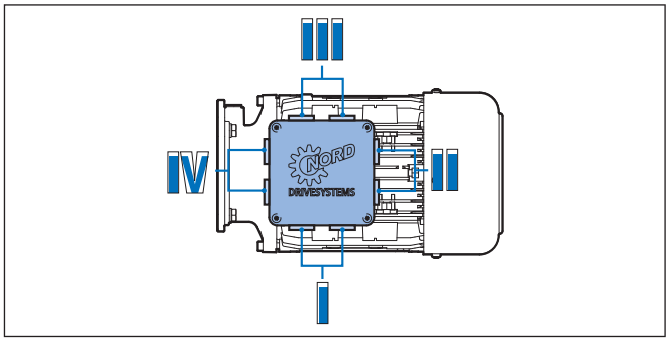
Parallel Gear Units



Right-Angle Gear Units



Cable Entry Positions:



Nomenclature

Nomenclature

Parallel Gear Unit		Helical-bevel Gear Unit		Output Torque
2-stage	3-stage	3-stage	4-stage	T_{2max}
SK 7207	SK 7307	SK 7407	SK 7507	221300 lb-in
SK 8207	SK 8307	SK 8407	SK 8507	274400 lb-in
SK 9207	SK 9307	SK 9407	SK 9507	371700 lb-in
SK 10207	SK 10307	SK 10407	SK 10507	451400 lb-in
SK 11207	SK 11307	SK 11407	SK 11507	655000 lb-in
SK 12207	SK 12307	SK 12407	SK 12507	893900 lb-in
SK 13207	SK 13307	SK 13407	SK 13507	1248000 lb-in
SK 15207	SK 15307	SK 15407	SK 15507	2142000 lb-in

Combinations with parallel and bevel gear units

Parallel gear units		Bevel gear units		
Nominal Ratio i_N	5-stage	Nominal Ratio i_N	6-stage	Output Torque T_{2max}
355-1600	SK 7307/4282	450 -1600	SK 7307 / 9032.1	221300 lb-in
400-1600	SK 8307/4282	500 - 1600	SK 8307 / 9032.1	274400 lb-in
400-1600	SK 9307/5282	450 - 1600	SK 9307 / 9042.1	371700 lb-in
450-1600	SK 10307/5282	500 - 1600	SK 10307 / 9042.1	451400 lb-in
180 - 1600 125 - 160	SK 11307/6282 SK 11307 /7282	200 - 1600 200 - 1600	SK 11307 / 9052.1	655000 lb-in
180 - 1600 125 - 160	SK 12307 / 7282 SK 12307 / 8282	200 - 1600 200 - 1600	SK 12307 / 9072.1	893900 lb-in
200 - 1600 125 - 180	SK 13307 / 7282 SK 13307 / 9282	315 - 1600 180 - 280	SK 13307 / 9072.1 SK 13307 / 9082.1	1248000 lb-in
250 - 1600 180 - 200 125 - 160	SK 15307 / 8282 SK 15307 / 9282 SK 15307 / 10282	280 - 1600 180 - 250 180 - 250	SK 15307 / 9082.1 SK 15307 / 9086.1 SK 15307 / 9086.1	2142000 lb-in

Nomenclature

Ordering Example

SK11207 AS H IEC CC 200L/4 BRE

- **Brake Designation**
- **Motor Designation** (IEC or NEMA)
- **Additional Options** (CC, FAN...)
- **Gearbox Types** (IEC, NEMA, MSW, MSF...)
- **Additional Options** (G, D, H, B...)
- **Shaft & Mounting Options** (A, AF, AS, V, L...)
- **Amount of Stages** (2, 3, 4) → 2: 2-Stage Helical gear unit; 3: 3-Stage Helical gear unit; 4: 3-Stage Helical-bevel gear unit; 5: 4-Stage Helical-bevel gear unit
- **Gearbox Size** (7, 8, 9, 10, 11, 12, 13, 15)

Example Explanation

Case Size 11 Gearbox with a 2-Stage Helical gear unit, Hollow Shaft with Shrink disc and Cover, an IEC gearbox type with a Cooling Coil and a 200L/4 Motor that is provided with a brake.

Gear Unit Options

NORD DRIVESYSTEMS

Large Industrial Gearbox Options

Option Code	Description	Output Design	Options for Output	Input Design	Additional Options	Size								Page
						SK 7.07	SK 8.07	SK 9.07	SK 10.07	SK 11.07	SK 12.07	SK 13.07	SK 15.07	
A	Keyed hollow shaft	X				✔	✔	✔	✔	✔	✔	✔	✔	40
AS	Hollow shaft with shrink disc	X				✔	✔	✔	✔	✔	✔	✔	✔	42
B	Fixing kit for hollow shaft		X			✔	✔	✔	✔	✔	✔	✔	✔	41
CC	Internal water cooler				X	✔	✔	✔	✔	✔	✔	✔	✔	57
CS1	External oil / water cooler				X	✔	✔	✔	✔	✔	✔	✔	✔	59
CS2	External oil / air cooler				X	✔	✔	✔	✔	✔	✔	✔	✔	59
D	Torque support		X			✔	✔	✔	✔	✔	✔	✔	✔	46
EA	Hollow shaft, with spline, DIN 5480	X				✔	✔	✔	✔	✔	✔	✔	✔	40
ED	Elastic torque support		X			✔	✔	✔	✔	✔	✔	✔	✔	46
EV	Splined solid shaft, DIN 5480	X				✔	✔	✔	✔	✔	✔	✔	✔	40
EW	Splined solid input shaft, DIN 5480			X		✔	✔	✔	✔	✔	✔	✔	✔	40
F	Low output flange		X			✔	✔	✔	✔	✔	✔	✔	✔	44
FAN	Fan				X	✔	✔	✔	✔	✔	✔	✔	✔	56
FK	High output flange		X			✔	✔	✔	✔	✔	✔	✔	✔	44
F1	Input flange			X		✔	✔	✔	✔	✔	✔	✔	✔	48
H/H66	Cover (contact protection) / IP66 Cover		X	X		✔	✔	✔	✔	✔	✔	✔	✔	49
IEC	Adapter for fitting B5 IEC standard motors			X		✔	✔	✔	✔	✔	✔	✔	✔	48
L	Double solid shaft	X				✔	✔	✔	✔	✔	✔	✔	✔	40
LC	Pressure Forced lubrication				X	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	61
MC	Motor scoop				X	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	49
MD	Direct motor drive			X						[1]	[1]	- - -	- - -	
MO	Monitoring devices & sensors				X	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	49

[1] on request

Gear Unit Options

Option Code	Description	Output Design	Options for Output	Input Design	Additional Options	Size								Page
						SK 7.07	SK 8.07	SK 9.07	SK 10.07	SK 11.07	SK 12.07	SK 13.07	SK 15.07	
MF	Motor base frame (options: see MF..)				X	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	47
MS	Motor Swing Base (options: see MS ..)				X	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	47
MFB	Base frame with brake				X	✔	✔	✔	✔	✔	✔	✔	✔	47
MSB	Swing base with brake				X	✔	✔	✔	✔	✔	✔	✔	✔	47
MFK	Base frame with elastic coupling				X	✔	✔	✔	✔	✔	✔	✔	✔	47
MFT	Base frame with fluid coupling				X	✔	✔	✔	✔	✔	✔	✔	✔	47
MSK	Swing base with elastic coupling				X	✔	✔	✔	✔	✔	✔	✔	✔	47
MSKB	Swing base with elastic coupling and brake				X	✔	✔	✔	✔	✔	✔	✔	✔	47
MST	Swing base with fluid coupling				X	✔	✔	✔	✔	✔	✔	✔	✔	47
MFTB	Base frame with fluid coupling and brake				X	✔	✔	✔	✔	✔	✔	✔	✔	47
MSTB	Swing base with fluid coupling and brake				X	✔	✔	✔	✔	✔	✔	✔	✔	47
MT	Motor bracket				X	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	49
NEMA	Adapter for fitting B5 NEMA C-flange standard motors			X		✔	✔	✔	✔	✔	✔	✔	✔	48
OA	Oil expansion chamber				X	✔	✔	✔	✔	✔	✔	✔	✔	55
OT	Oil tank				X	✔	✔	✔	✔	✔	✔	✔	✔	55
OH	Oil heater				X	✔	✔	✔	✔	✔	✔	✔	✔	60
R	Backstop			X		✔	✔	✔	✔	✔	✔	✔	✔	51
V	Solid shaft	X				✔	✔	✔	✔	✔	✔	✔	✔	40
VL2	Aerator / agitator drive	X				✔	✔	✔	✔	✔	✔	✔	✔	45
VL3	Aerator / agitator drive with “Drywell”	X				✔	✔	✔	✔	✔	✔	✔	✔	45
WX	Auxiliary drive			X		✔	✔	✔	✔	✔	✔	✔		49
W1/W2/ W3	W-Solid Shaft Input Seals 1/2/3 - number of seals			X		✔	✔	✔	✔	✔	✔	✔		50

[1] on request

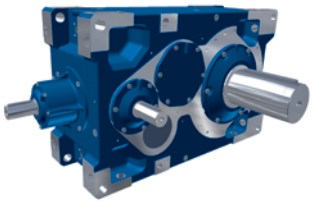
Gear Unit Options


Examples

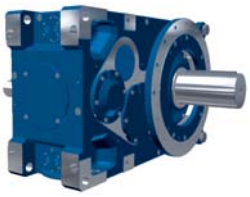
SK 13207 - V
Two-stage parallel gear unit
with solid output shaft

SK 13307 - A
Three-stage parallel gear unit
with hollow output shaft

SK 13407 - V
Four-stage right-angle gear unit
with solid output shaft



SK 13507 - V - W
Five-stage right-angle gear unit
with solid output shaft
with additional free input shaft



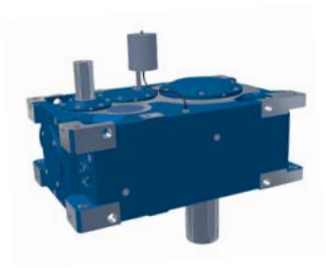
SK 13207 - V - F
Two-stage parallel gear unit
with solid shaft and F flange on output

SK 13207 - V - F
Two-stage parallel gear unit
with solid shaft and F flange on output

SK 13207 - A - ED
Two-stage parallel gear unit
with hollow output shaft
and elastic torque support

SK 13307 - A - D
Three-stage parallel gear unit
with hollow output shaft
and standard torque support

SK 13207 - V - OT
Two-stage parallel gear unit
with solid output shaft
and oil tank



SK 13307 - V - OA
Three-stage parallel gear unit
with solid output shaft
and oil expansion chamber

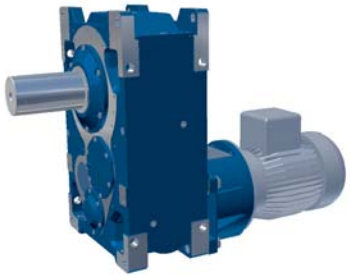
SK 13207 - V - VL2 - IEC
Two-stage parallel gear unit
with solid output shaft, attached IEC motor,
and "agitator flange" with reinforced bearings

SK 13307 - ASH - VL3 - NEMA
Three-stage parallel gear unit
with hollow output shaft with shrink disc & cover
"agitator flange" with "Drywell"
and attached NEMA motor

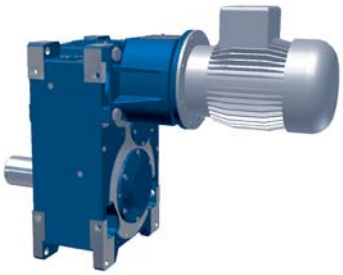
Gear Unit Options


SK 13207 - V - FK
Two-stage right-angle gear unit
with solid shaft and high flange on output

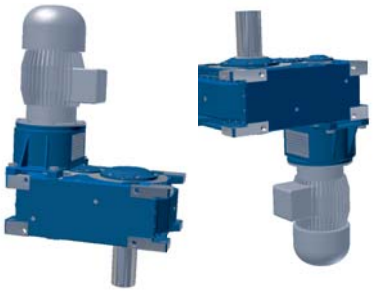
SK 13307 - V - IEC
Three-stage right-angle unit
with solid output shaft, and an attached IEC motor



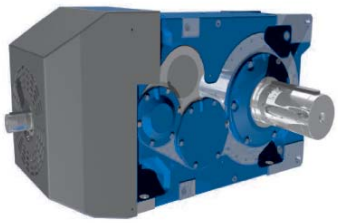
SK 13207 - V - NEMA
Two-stage parallel unit
with solid output shaft, and an attached NEMA motor



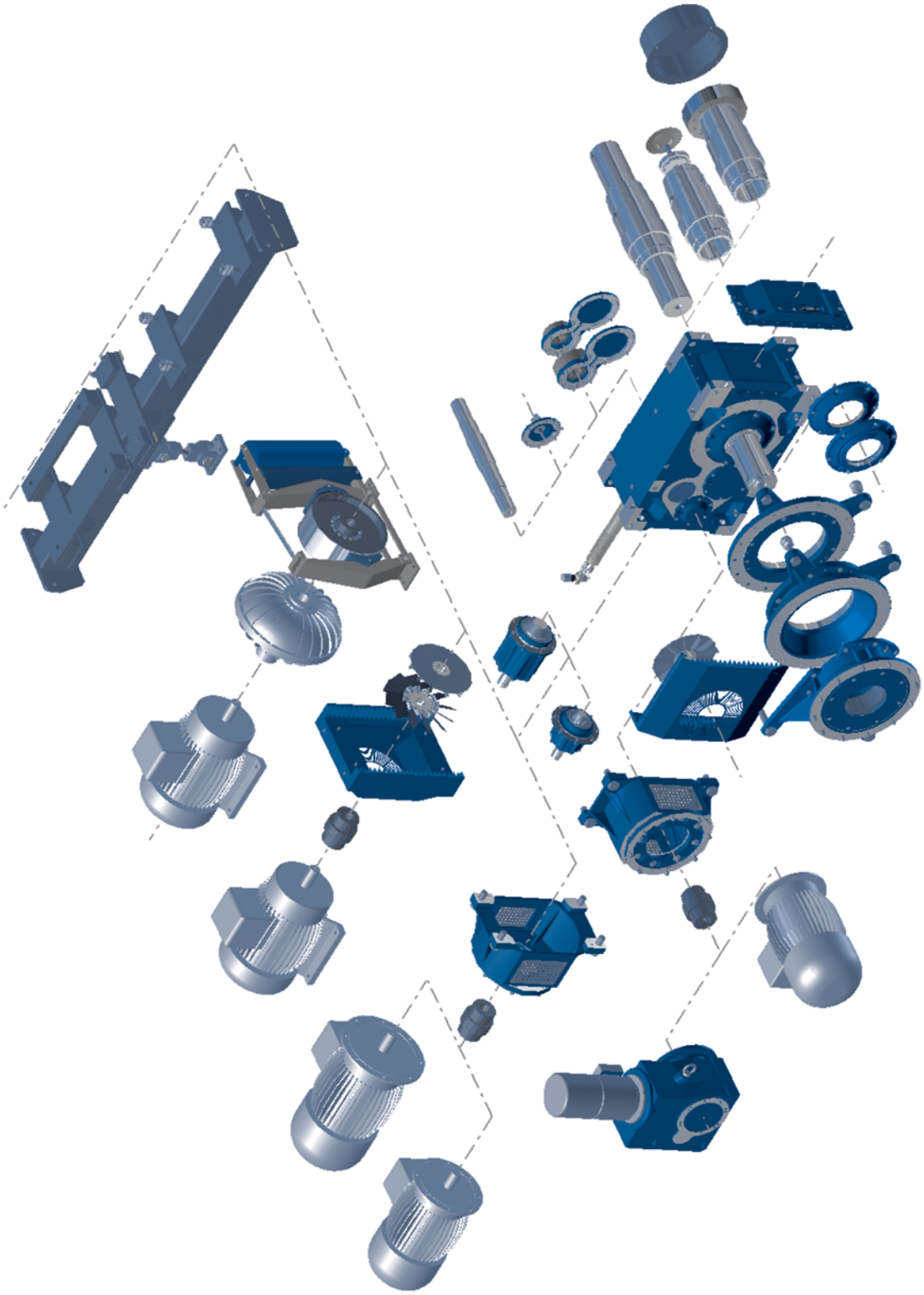
SK 13307 - V - IEC
Three-stage parallel gear unit
with solid output shaft, and an attached IEC motor



SK 13207 - V - NEMA
Two-stage parallel gear unit
with solid output shaft, and an attached NEMA motor



SK 13407 - V - FAN
Four-stage right angle gear unit
with solid output shaft
with attached fan and protective cover

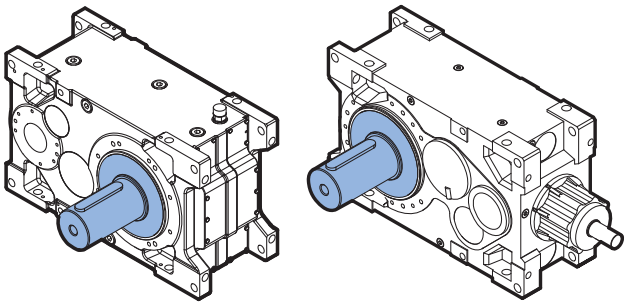


Shaft Options

Shaft Options

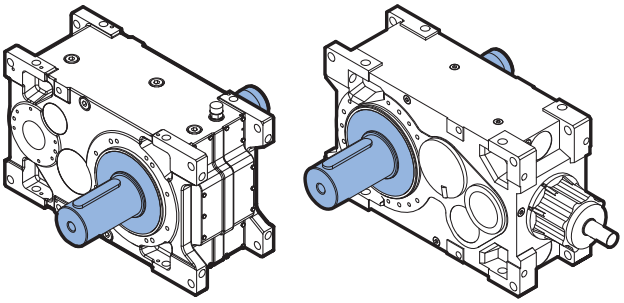
Solid Shaft (Blank or V)

NORD's standard keyed solid shafts include a centered threaded hole. When installing drive elements such as sprockets, coupling hubs, pulleys, etc. the threaded hole and a suitable assembly device can be used to assemble the drive element. Shafts are available as inch or metric versions.



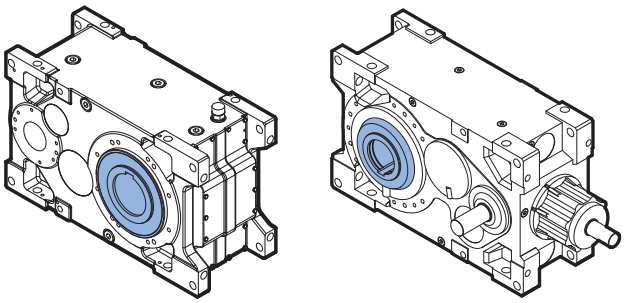
Double Solid Shaft (L)

The standard solid shaft end is projected out both sides of the speed reducer. This option is commonly used to transfer torque out of both sides of the reducer or to mount a speed-monitoring device such as an encoder on one of the shaft ends. If you need the keyways to be alligned you must specify with NORD upon ordering.



Keyed Hollow Shaft (A)

NORD's standard keyed hollow shafts feature standard keyway dimensions and are available in both inch and metric designs. Many NORD reducers offer a variety of hollow shaft diameters.

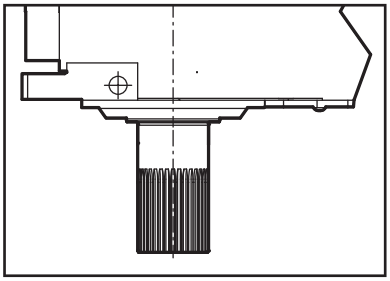


Hollow Shaft with Spline (EA)

Hollow shafts with an involuted metric spline profile, according to DIN 5480, are available for some NORD hollow shaft reducers. These spline shafts are commonly used on crane travel drives.

Solid Output Shaft with Spline (EV)

Solid output shafts with an involuted metric spline profile, according to DIN 5480, are available for some reducers.



Solid Input Shaft with Spline (EW)

Solid output shafts with an involuted metric spline profile, according to DIN 5480, are available for some reducers.

Fixing Kits for Hollow Shafts (B)

Due to the slight oscillations inherent in any rotating shaft, NORD offers an optional "fixing kit". This is a method to prevent the reducer from "walking out" of position. The kit includes all of the necessary parts to secure the shaft in the axial direction by using a tapped hole in the end of the mating male shaft.

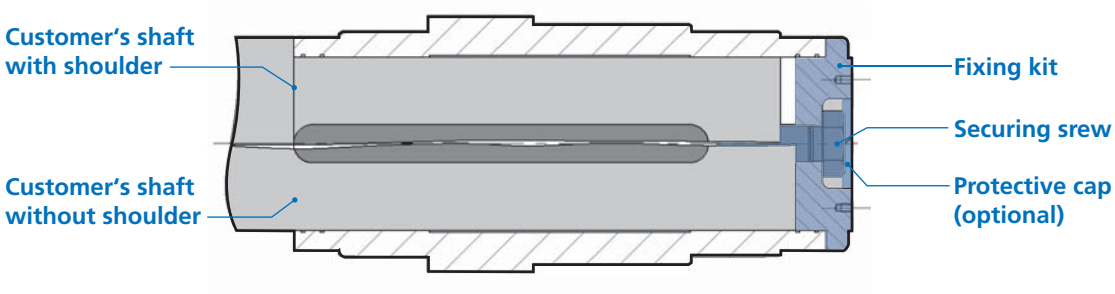
The fixing kits are used for assembling, dismantling and axial fixing to the customer's shaft. The customer's shaft may be with or without a shoulder.

The threaded rod, assembly nut and dismantling screw are not provided with the fixing kit option.

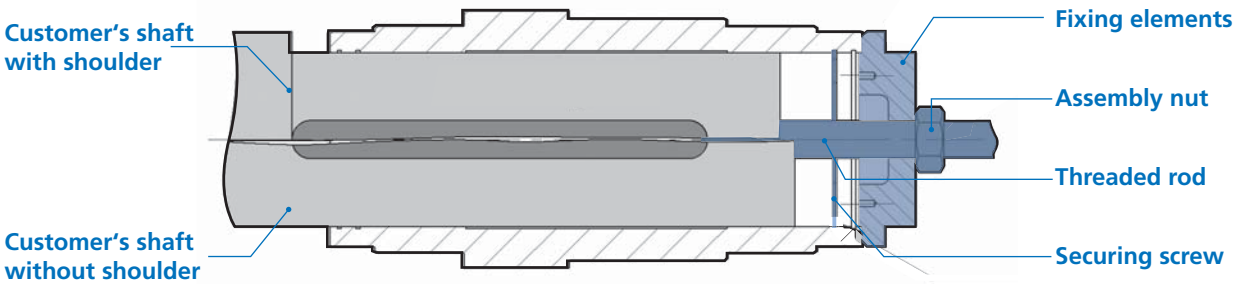
Specifications for use:

- The solid shaft that is used must have a tap according to and our factory standards.
- Space must be available to fit the fixing kit. The permissible shaft dimensions can be found on the hollow shaft dimension pages for each individual gearbox size on page.

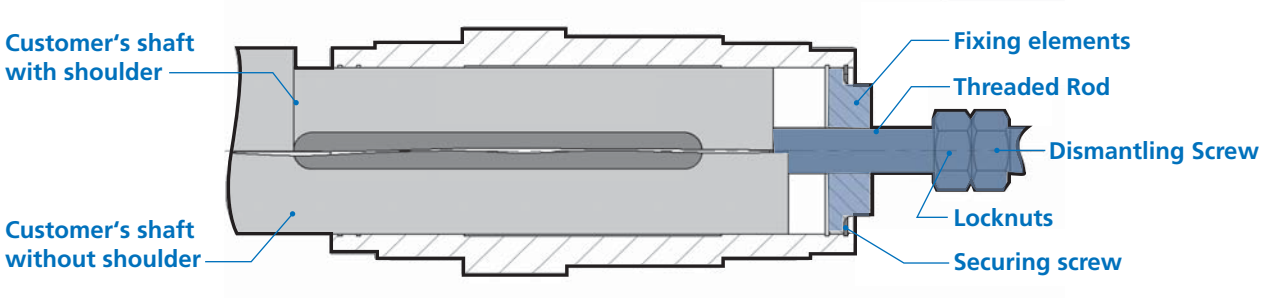
Installation (fixing)



Assembly



Dismantling



Shaft Options

Hollow Shaft with Shrink disc (AS)

For gearbox versions with a hollow shaft design the use of a shrink disc is advised. The customer's shaft length that may be inserted into the hollow shaft of the gearbox can be found on page 186 & 306.

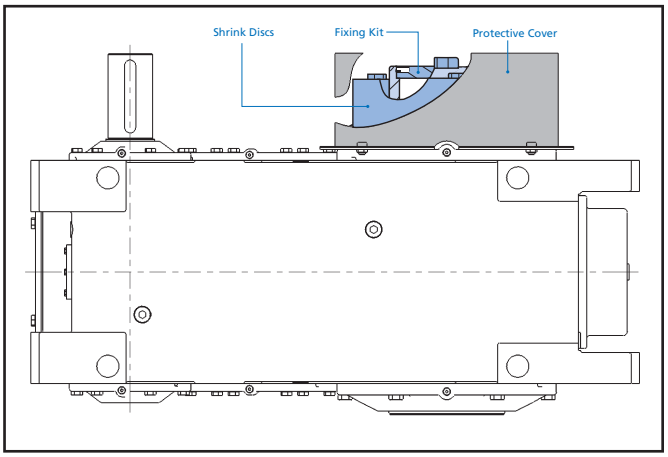
The diameter of the shaft should be according to either ISO standard g_6. The material of the customer's insert must yield a minimum strength of at least:

R_e = 52,260 psi (360 N/mm²)

That way the pressing that creates the frictional coupling may be built up to ensure that no permanent deformation occurs.

T_{2max} = Maximium permissible drive torque

s = Safety factor of the shrink disc for fitclass g_6 with T_{2max}



Gearbox				Shrink disc				Hexagonal bolt DIN 933 - 12.9
Type of gear unit				Type	T_{2max} [lb-in]	T_{2max} [Nm]	s	Type
SK 7207	ASH	SK 7407	ASH	160	223900	25300	2.1	M16
SK 7307	ASH	SK 7507	ASH		223900	25300	2.1	
SK 8207	ASH	SK 8407	ASH	160	269900	30500	1.9	M16
SK 8307	ASH	SK 8507	ASH		274400	31000	1.9	
SK 9207	ASH	SK 9407	ASH	190	370800	41900	2.5	M16
SK 9307	ASH	SK 9507	ASH		368200	41600	2.5	
SK 10207	ASH	SK 10407	ASH	190	429300	48500	2.1	M16
SK 10307	ASH	SK 10507	ASH		454000	51300	2.0	
SK 11207	ASH	SK 11407	ASH	220	662900	74900	2.4	M20
SK 11307	ASH	SK 11507	ASH		616000	69600	2.6	
SK 12207	ASH	SK 12407	ASH	240	869100	98200	2.4	M20
SK 12307	ASH	SK 12507	ASH		897500	101400	2.4	
SK 13207	ASH	SK 13407	ASH	280	1216000	137400	3.0	M24
SK 13307	ASH	SK 13507	ASH		1255000	141800	2.9	
SK 15207	ASH	SK 15407	ASH	300	2079000	234900	2.2	M24
SK 15307	ASH	SK 15507	ASH		2146000	242500	2.1	

Shaft Options

Hollow Shaft with Shrink disc Combinations

	IEC - Motors								Transnorm - Motors			
Size	132	160	180	200	225	250	280	315	315	355	400	450
Flange ø [1]	300	350	350	400	450	550	550	660	800	900	1000	1150
SK 7..07	✓	✓	✓	✓	✓	✓	✓	✓	#	#	#	#
SK 8..07	✓	✓	✓	✓	✓	✓	✓	✓	#	#	#	#
SK 9..07	✓	✓	✓	✓	✓	✓	✓	✓	#	#	#	#
SK 10..07	✓	✓	✓	✓	✓	✓	✓	✓	#	#	#	#
SK 11..07	✓	✓	✓	✓	✓	✓	✓	✓	✓	#	#	#
SK 12..07	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	#	#
SK 13..07	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	#
SK 15..07	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

[1] According to DIN / IEC
Available upon request

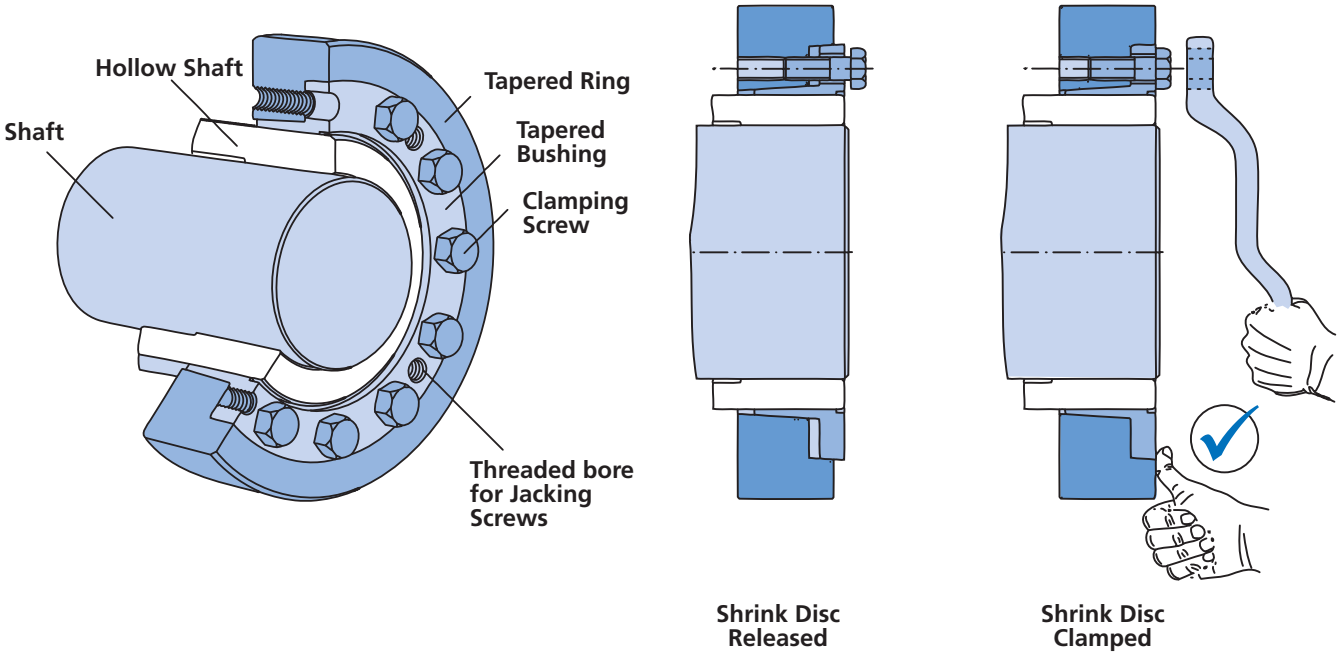


Bild-Quelle: Fa. RINGSPANN GmbH

Mounting Options

Output flanges (F, FK, VL2/VL3)

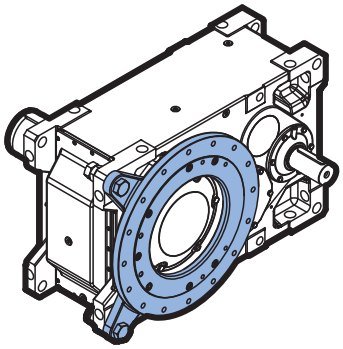
In addition to the six mounting surfaces of the housing, the gearbox may be equipped with various mounting flanges. The output flange is designed to accommodate mounting a gearbox with an attached motor. However, the permissible motor weights (found on page 48) must not be exceeded.

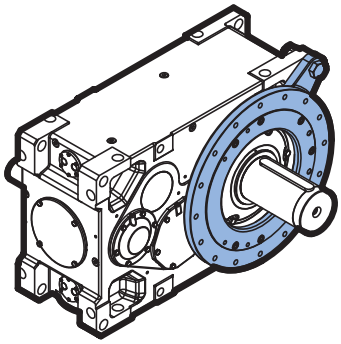
Please contact us if you wish to use the mounting flange in order to attach to parts of an application process. In this case, technical clarification is essential.

The following types of output flanges are available:

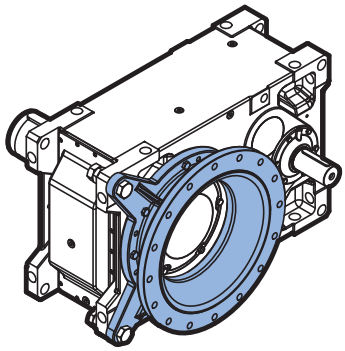
- Flat output flange (F)
- High output flange(FK)
- VL2 / VL3 flange (agitators) (Found on the following page)

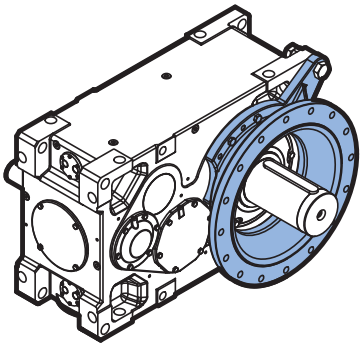
Low output flange (F) (B14 Flange / with threaded holes)





High output flange (FK) (B5 Flange / with through holes)

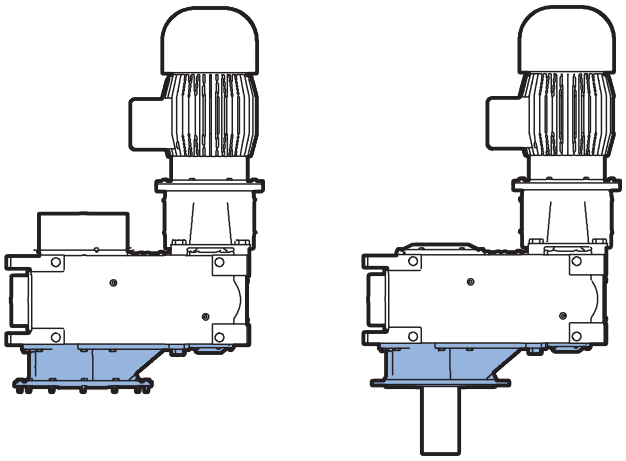




Reinforced output design (VL2 / VL3) (agitator flange)

Spread Bearing Design (VL2)

The VL2 option is specifically designed for agitator or mixer applications requiring increased bearing load carrying capacities.



NORD offers reinforced output shaft bearings with increased bearing distance. the lower bearing is a oversized, double row spherical bearing, which absorbs high overhung and thrust loads, while providing a longer bearing service life. The spherical roller bearing is especially useful in compensating for alignment errors in long agitator shafts. Included with the VL2 design is a grease fitting for the lower bearing and a removeable plug to allow excess grease to purge from the bearing cavity.

Spread Bearing Design with Oil Safe Dry Cavity (VL3)

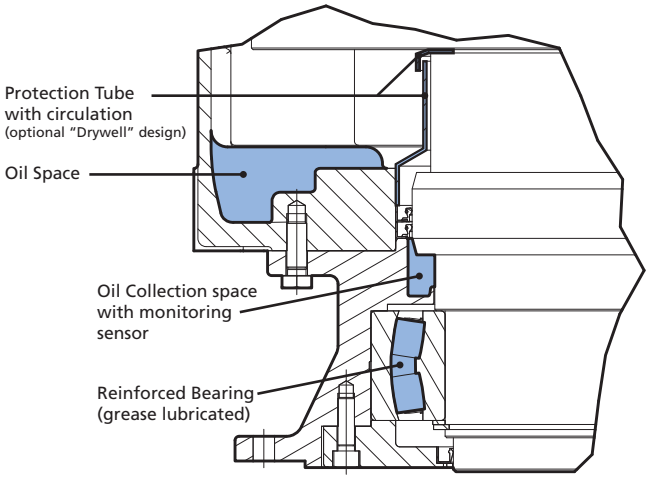
The VL3 dry cavity design adds additional oil leak protective measures to the VL2 spread bearing design. If in any case oil does leak past the reducer seals, it would flow down to the oil slinger mounted onto the shaft. As the shaft rotates, the oil will sling off into the dry cavity and is detected by an oil sensor.

⚠ IMPORTANT NOTE ⚠

Calculation of the bearing life on request.

For the calculation we require the following data:

Input power	P_1	[hp]
Output speed	n_2	[rpm]
Axial force (thrust)	F_T	[lb]
Radial force	F_{OHL}	[lb]
Distance of the point of action of the radial force from the flange support	X	[in]
Required bearing life	L_{10h}	[h]



⚠ IMPORTANT NOTE ⚠

Upon request a drywell design may be offered.

Gear Unit Options

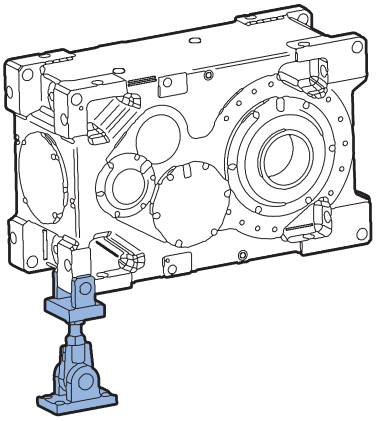
Torque Support (D) (ED)

For shaft mounted versions of hollow shaft gearboxes, optional torque supports are available. In addition to a simple torque support (D), NORD offers a torque support with an integral elastic bushing (ED), which has better damping characteristics (vibration damping).

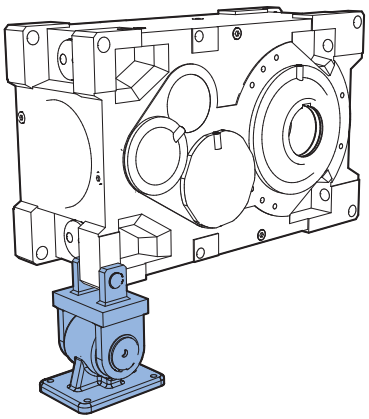
The torque support should be assembled on the machinery side, in order to keep the bending moment on the machinery shaft low. Loading under tension or compression and installation upwards or downwards are not permissible. The torque support may only be installed closest to the input side, otherwise the permissible loading of the gear unit will be exceeded.

Preloading the torque support during installation or operation must be avoided, otherwise the life-span of the drive shaft bearings may be reduced. Torque supports are not suitable for the transmission of radial forces, therefore may only be used in direct-coupled applications that cannot transmit the specified radial forces.

Standard Torque Support (D)



Elastic Torque Support (ED)



Motor Swing Base (MS)

The motor swing base is designed specifically for use with right-angle shaft mounted gear unit where the gearbox and motor are mounted on a common base frame. The torque is taken up via torque support or torque reaction arm.

Optional components (can be combined):

- Elastic coupling, fluid coupling
- Drum brake, disc brake
- Radial / Axial fan
- Auxiliary drive (with freewheeling coupling, back stop, motor brake , etc.)
- Torque support, attachment plate

Motor Base Frame (MF)

Motor base frames (or motor bases) are similar to a motor swing base except the entire base frame is intended to be foot mounted to the supporting machine structure.

Couplings (MSK, MST, MFK, MFT)

Upon request, NORD can provide a variety of coupling types and styles. Please contact NORD if you have special requirements for input or output couplings.

- Common input couplings include: flexible, jaw-style, fluid couplings (to help control start-up), and safety couplings or torque-overload couplings.
- Common output couplings include: elastic bolt couplings (for shorter span lengths), and flange couplings or gear couplings (for larger span lengths).

Swing Base with Brake (MSB) & Base Frame with Brake (MFB)

A motor swing base or base frame can be supplied with an optional disc or drum brakes installed between the motor and the gear unit.

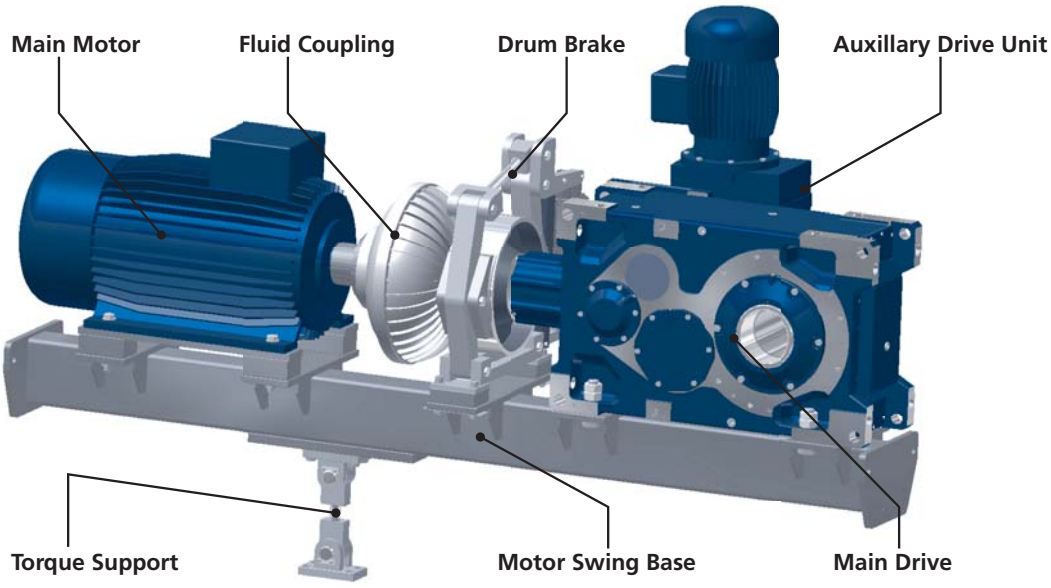
For applications with a relatively high external moment of inertia (maf > 2), as often the case with travelling drives, slewing gear, turntables, gate drives, agitators and surface ventilators, it is recommended that a brake torque be selected that is no greater than 1.2 times the nominal torque of the motor.

When a higher brake torque is required this must be considered in the selection of the gear unit. Please consult NORD. Also contact NORD if an output-side brake is necessary.

Motor Swing Base and Motor Base Options

Both the motor swing base and the motor base are commonly supplied with either an elastic input coupling or a fluid coupling. In addition, many drive packages require a brake between the motor and the input-side of the reducer. The most common motor swing base or motor base options may be specified as follows:

Description	Option Code
Swing base with elastic coupling	**MSK**
Motor base with elastic coupling	**MFK**
Swing base with elastic coupling and brake	**MSKB**
Motor base with elastic coupling and brake	**MFKB**
Swing base with fluid coupling	**MST**
Motor base with fluid coupling	**MFT**
Swing base with fluid coupling and brake	**MSTB**
Motor base with fluid coupling and brake	**MFTB**



Gear Unit Options

Input Flange (F1)

Gear units with input flange and solid-shaft input can be supplied to allow for additional drive components to be attached to the input (high speed) side of the reducer. It is possible to use the input flange to install an accessory such as a disc brake or a torque overload or to install an additional gear reduction mechanism to the main reducer.

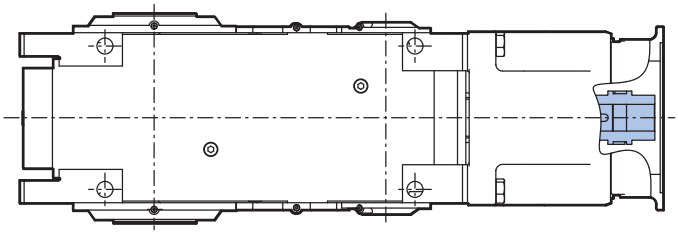
Direct motor attachments & IEC/NEMA adapters

Input adapters according to NEMA/IEC and Transnorm standards can be supplied. The maximum input power stated in the power and ratio tables cannot be exceeded.

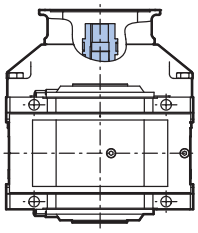
For higher speeds than those stated in the power and ratio tables, special measures may be necessary. In these situations please contact NORD Gear.

Motor attached to IEC/NEMA adapter cylinders with an elastic coupling

Right Angle Drives



Parallel Drives



Maximum permissible motor weight paired with an elastic coupling according to size														
NEMA		**56C**	**143T**	**145T**	**182T**	**184T**	**210T**	**250T**	**280T**	**324T**	**326T**	**365T**		
lb		66	88	110	132	176	220	440	550	770	1100	1540		
kg		30	40	50	60	80	100	200	250	350	500	700		
IEC	**63**	**71**	**80**	**90**	**100**	**112**	**132**	**160**	**180**	**200**	**225**	**250**	**280**	**315**
lb	55	66	88	110	132	176	220	440	550	770	1100	1540	2200	3370
kg	25	30	40	50	60	80	100	200	250	350	500	700	1000	1500
Transnorm	**315**	**355**	**400**	**450**										
lb	3310	4850	7050	9700										
kg	1500	2200	3200	4400										

Motor Scoop (MC)

The motor scoop provides a “soft” mounting” for a standard NEMA T-frame or IEC B3 footed motor. The motor bracket or scoop is mounted to the gear unit in a cantilevered fashion to allow direct-coupling of the motor to the reducer’s input shaft. Motor scoops can have the tendency to deflect or twist during reducer operation and in some cases vibrations may result that exceed those considered acceptable for rigid “hard” mounted machinery. The motor size, weight, location, and starting torque all need to be considered in order to provide an adequate design.

Motor Bracket (MT)

The motor bracket provides a convenient way to mount a standard NEMA T-frame or IEC B3 footed motor with belt drive to the reducer. Often the motor bracket is mounted “over-the-top” of the reducer and referred to as a “top-mount” or “piggyback” motor bracket.

The motor is belt driven to the reducer input shaft using pulleys mounted to both the motor shaft and the reducer shaft. When mounted to the gear unit, the entire assembly is adjustable in order to allow proper tensioning of the external belt drive assembly. The motor bracket can be used when installation space is restricted or it may be used to change the total ratio of the mechanical drive assembly. The belt-pulley drive arrangement can be used as a safety element, as it reacts to overload by slipping. Factory consultation is necessary if one intends to use the belt-pulley drive as a safety device.

Shaft Cover / IP66 Shaft Cover (H/H66)

The Shaft cover provides protection from rotating parts and the shrink disc when applicable.

The IP66 shaft cover provides the same protection from the shrink disc and rotating parts as well as being rated IP 66, which means that it is dust tight and capable of protecting against high pressure water jets.

Auxiliary drives (WX)

The auxiliary drive is flange-mounted to the side face of the main right angle reducer, opposite the low speed shaft, using an intermediate flange and shaft connection. The connection between the main drive and the auxiliary drive is assembled with an overrunning clutch. During normal operation of the main drive, the clutch is disengaged. When it becomes necessary to operate the system at slow speed or “inch” the main reducer, the main motor is stopped and auxiliary motor and reducer engage the main drive through the clutch connection.

The auxiliary drive or inching drive is available to allow for the inspection and maintenance of belts and buckets and to allow for slow speed operation of conveyors or elevators that operate in cold-weather. The auxiliary drive should be equipped with a brake or brake motor in order to prevent unintended rotation or back driving.

The following auxiliary drive options are available :

- with overrunning clutch and backstop assembled in the intermediate flange to prevent reverse rotation of the system (standard design).
- with overrunning clutch in the flange and separate backstop as part of the main drive to prevent reverse rotation of the system.
- with overrunning clutch assembled in the intermediate flange and no backstop to prevent reverse rotation of the system.

Monitoring devices and sensors (MO)

The following monitoring devices are also available as options. Please contact us for detailed information about any of the oprtions listed below.

- Oil sight glass
- Oil level glass
- Oil dip-stick
- Pt100 (Temperature)
- PTC thermistor (Temeperature)
- Bimetal switch (Temperature)
- Particle counter (oil)
- Water content (oil)
- Electrical contamination indicator for oil filter
- Optical contamination indicator for oil filter
- SPM nipple (vibrations)
- Bearing condition monitor with evaluation unit
- Oil condition monitoring
- Pressure monitoring (oil circulation)
- Other special requirements available upon request

Gear Unit Options

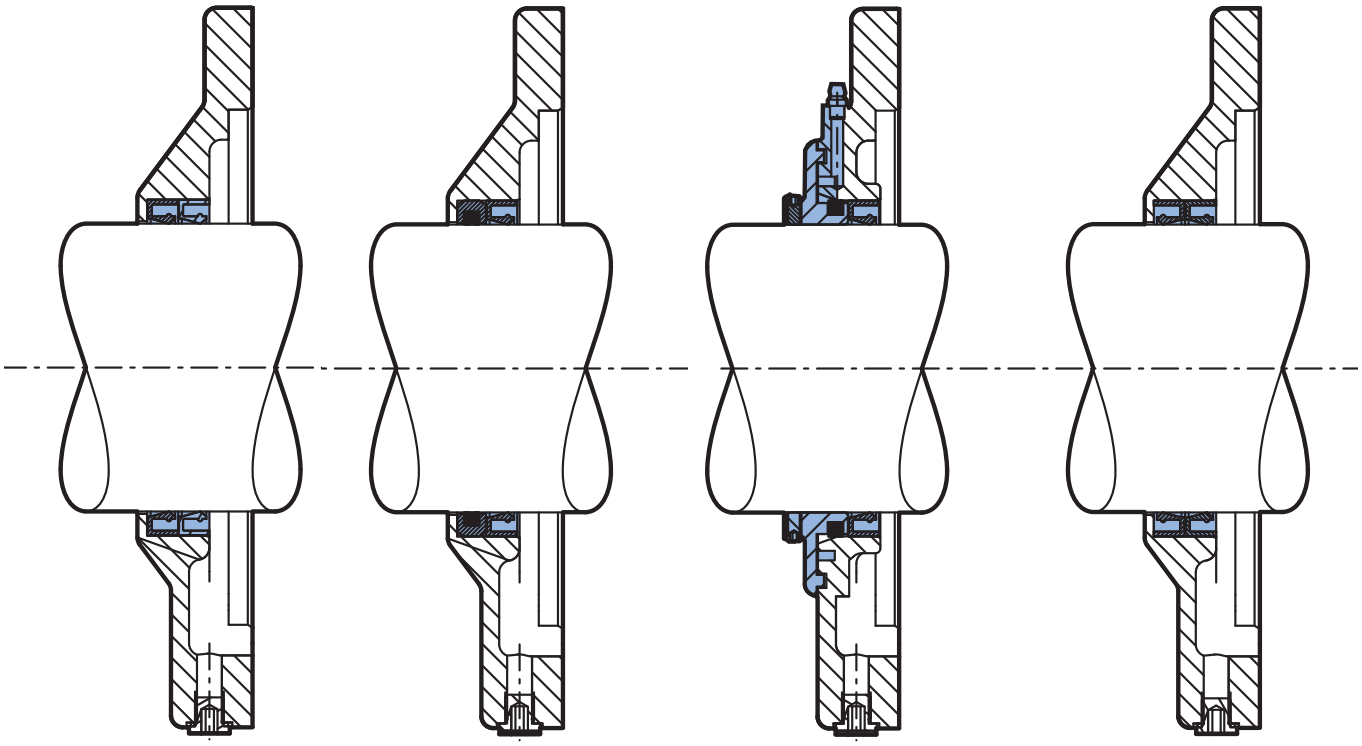
Sealing systems

The gearbox is supplied with one shaft seal on the drive input shaft and two shaft seals on the output shaft. The seal material is NBR (Buma N)or optional FKM (Fluroelatsomer). For operating oil temperatures (oil temperatures) above 85°C, FKM seals should be used. The optional shaft sealing rings can be supplied with or without a dust protection collar.

The following output seal designs are available:

- Two shaft sealing rings (standard)
- Labyrinth seal
- Taconite seals
- Gamma ring seals (without illustration)

Please contact us if sealing systems other than those listed here are required.



Standard

(Drive with one output with two shaft sealing rings)

Labyrinth Seal

Taconite F

(Grease-Lubricated labyrinth seal; can be re-lubricated)

Taconite E

(Grease-filled outer shaft sealing ring)

Backstops (R)

Optional backstops, which allow rotation in only one direction and block the other direction of rotation may be supplied.

The lubrication of the backstop is provided by the oil from the gear reducer. The backstops lift off due to centrifugal force above a certain lift-off speed (see table) and are then free of friction.

Gearbox	Nominal Gear Ratio i_N	Lift-off speed n_1 [rpm]
SK 7207	7,1 - 25	400
SK 7307	28 - 315	430
SK 7407	18 - 100	1636
SK 7507	112 - 400	1759
SK 8207	8 - 28	400
SK 8307	31,5 - 355	430
SK 8407	20 - 112	1636
SK 8507	125 - 450	1759
SK 9207	7,1 - 25	320
SK 9307	28 - 355	400
SK 9407	18 - 100	1309
SK 9507	112 - 400	1636
SK 10207	8 - 28	320
SK 10307	31,5 - 400	400
SK 10407	20 - 112	1309
SK 10507	125 - 450	1636
SK 11207	5.6 - 20	320
SK 11307	31.5 - 112	400
	22.4 - 28	320
SK 11407	11.2 - 80	1140
SK 11507	112 - 400	1420
	80 - 100	1140
SK 12207	5.6 - 20	250
SK 12307	22.4 - 112	320
SK 12407	12.6 - 71	890
SK 12507	80 - 400	1140
SK 13207	5.6 - 20	250
SK 13307	22.4 - 112	320
SK 13407	12.6 - 71	890
SK 13507	80 - 400	1140
SK 15207	5.6 - 20	220
SK 15307	22.4 - 112	250
SK 15407	12.6 - 71	785
SK 15507	80 - 400	890

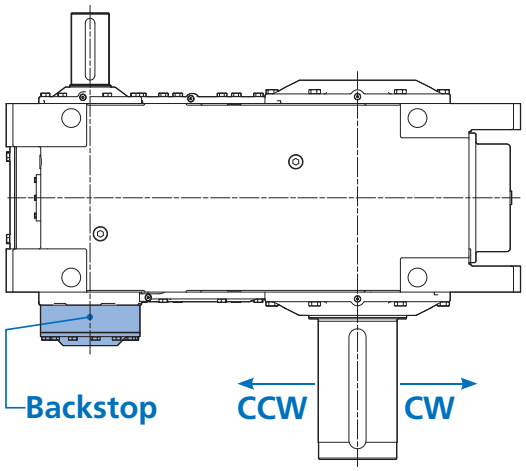
⚠ *IMPORTANT NOTE* ⚠

Please contact NORD if the motor input speed is greater than 1800 rpm or less than 1200 rpm.

When ordering the backstop option, the direction of rotation must be specified. The direction of rotation is based upon looking directly at the drive shaft and specifying which direction you want it to turn.

CW = Clockwise direction of rotation, Right-hand rotation
CCW = Counterclockwise direction of rotation, Left-hand rotation

The position of the output shaft and the side on which the backstop is installed determine the direction of rotation. The direction of view for declaring the rotation direction is always towards the output shaft that is being specified.



⚠ *WARNING* ⚠

Danger of failure and distruction. Check the direction of rotation of the motor and the gearbox before starting up your application. Arrows on the gearbox indicate the direction of rotation.

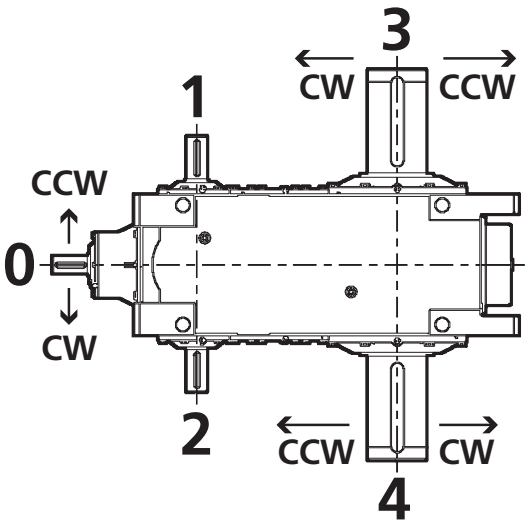
⚠ *WARNING* ⚠

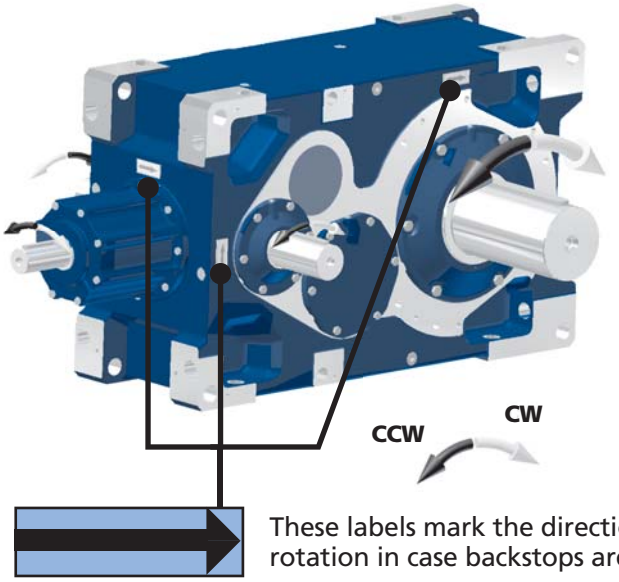
The backstops are designed for double the rated gearbox torque (T_{2max}) with reference to the output shaft. If greater safety ratings are required, please consult NORD.

Gear Unit Options

Rotation Direction of Input/Output shafts

The direction of rotation for the gearbox shafts are dependant upon the installation position and the shaft configuration.





These labels mark the direction of free rotation in case backstops are used.

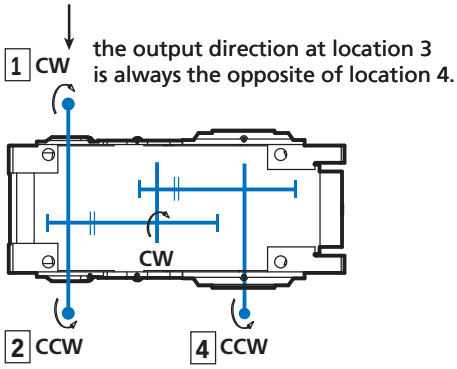
Installation position[1] M1 Direction of view[1] F2		Rotation Direction of Input			Rotation Direction of Output	
Shaft Positions[1] =>		0	1	2	3	4
SK ..207	or	---	CW	CCW	CW	CCW
		---	CCW	CW	CCW	CW
SK ..307	or	---	CW	CCW	CCW	CW
		---	CCW	CW	CW	CCW
SK ..407 (Standard)	or	CW	CW	CCW	CW	CCW
		CCW	CCW	CW	CCW	CW
SK ..407 (Optional)	or	CW	CCW	CW	CCW	CW
		CCW	CW	CCW	CW	CCW
SK ..507 (Standard)	or	CW	CW	CCW	CCW	CW
		CCW	CCW	CW	CW	CCW
SK ..507 (Optional)	or	CW	CCW	CW	CW	CCW
		CCW	CW	CCW	CCW	CW

1) Please see pages **28 - 31**

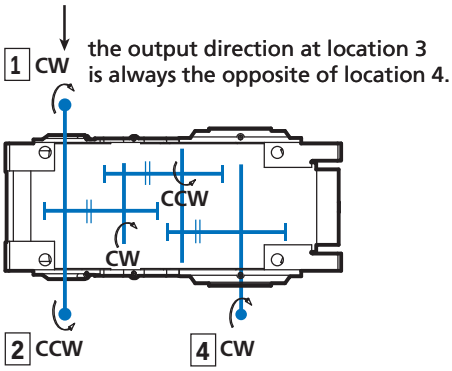
Gear Stage Illustration for MAXXDRIVE™ units

By flipping the bevel set of gearing, the rotation direction of right-angle gear units case size 11-15 may be reversed.

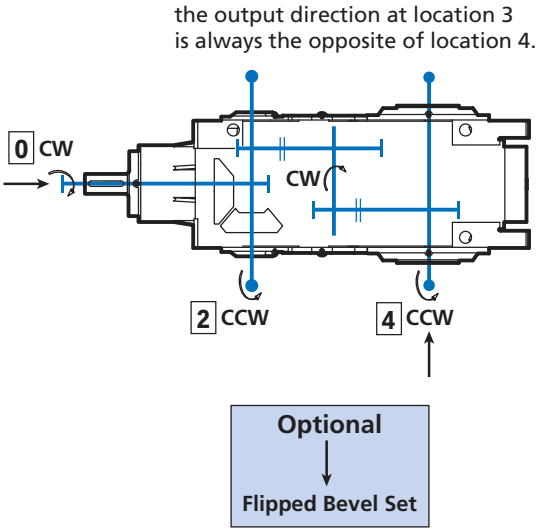
Two-stage Parallel Gear Unit (7207-15207)



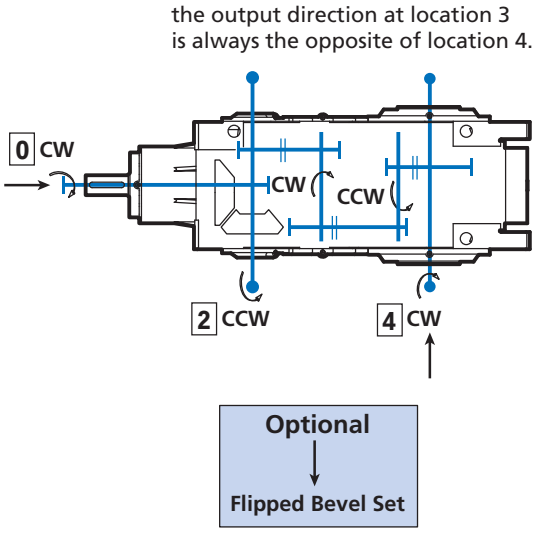
Three-stage Parallel Gear Unit (7307-15307)



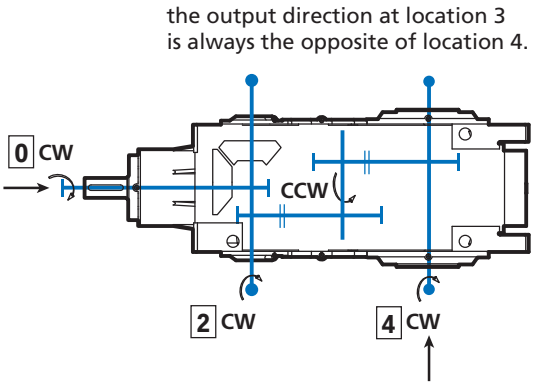
Three-stage Right-Angle Gear Unit (7407-15407)



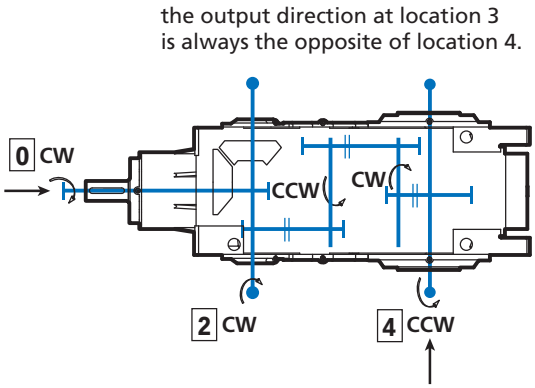
Four-stage Right-Angle Gear Unit (7407-15407)



Three-stage Right-Angle Gear Unit (7407-15407)



Four-stage Right-Angle Gear Unit (7407-15407)



Gear Unit Options

Paint Coating Options

Type	Version	Film Thickness		Recommended use
		TFD [Nm]	TFD total [Nm]	
F1	1 x 1-K dip-primed, red-brown (cast iron components) and 1 x 1-K universal primer	40 30	 30-70	For final painting by the customer
F2	1 x 1-K dip-primed, red-brown (cast iron components) and 1 x 2-K polyurethane (2-K-PUR)HS finishing coat	40 40	 40-80	For indoor installation with normal climatic conditions
F3.0	1 x 1-K dip-primed, red-brown (cast iron components) and 1 x 2-K polyurethane (2-K-PUR) primer and 1 x 2-K polyurethane (2-K PUR)HS finishing coat	40 70 40	 110-150	For indoor and outdoor installation with low environmental contamination
F3.1	1 x 1-K dip-primed, red-brown (cast iron components) and 2 x 2-K polyurethane (2-K-PUR) primer and 1 x 2-K polyurethane (2-K PUR)HS finishing coat	40 2x70 40	 180-220	For indoor and outdoor installation with moderate environmental contamination
F3.2	1 x 1-K dip-primed, red-brown (cast iron components) and 2 x 2-K polyurethane (2-K-PUR) primer and 2 x 2-K polyurethane (2-K PUR)HS finishing coat	40 2x70 2x40	 220-260	For indoor and outdoor installation with severe climatic conditions
F3.3	1 x 1-K dip-primed, red-brown (cast iron components) and 2 x 2-K epoxy zinc phosphate primer and 2 x 2-K polyurethane (2-K PUR)HS finishing coat	 2x70 2x40	 220-260	Coastal and offshore regions
F3.4	1 x 1-K dip-primed, red-brown (cast iron components) and 1 x 2-K epoxy zinc phosphate primer and 1 x Epoxy EFDEDUR chemical resistant finishing coat	40 70 40	 110-150	For high chemical exposure
F3.5	1 x 1-K dip-primed, red-brown (cast iron components) and 1 x 2-K epoxy zinc phosphate primer and 1 x FREOPOX Coating	40 70 40	 110-150	Machinery for the field of foodstuffs packaging
Z	Compensation of contour depressions and crevices with seam sealer on polyurethane basis			

1-K = single component 2-K = two-component, TFD = Dry film thickness max. [µm], HS = high solids

Parallel Shaft Unit with Motor or Input Vertical-Up

Parallel-shaft gear units with a motor or input shaft which is pointing vertical-up (M5 or M6 mounting position) require either a higher oil level to lubricate the high-end bearings and gearing or they will require a forced oil lubrication system.

Raising the oil level will result in higher gear pitch-line velocities, increased oil churning or splashing losses and additional heating inside the gear unit. To avoid excessive pressure build-up, a critical loss in oil volume through the air vent or shaft seals, and possible oil foaming, NORD may need to recommend adding an oil expansion chamber (Option OA) or an oil tank (Option OT).

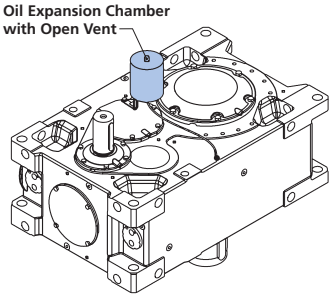
⚠ *IMPORTANT NOTE* ⚠

When the following conditions exist consult NORD in order to determine if an Oil Expansion Chamber (OA) or an Oil Tank (OT) option is needed:

- Parallel shaft unit with motor or input shaft vertical-up (M5 or M6 mounting position)
- Reducer Output Shaft Speed < 75 rpm
  - Input speed = 1800 rpm and Ratio < 24:1
  - Input speed = 1500 rpm and Ratio < 20:1
  - Input speed = 1200 rpm and Ratio < 16:1
  - Input speed = 1000 rpm and Ratio < 13:1

Oil Expansion Chamber (OA)

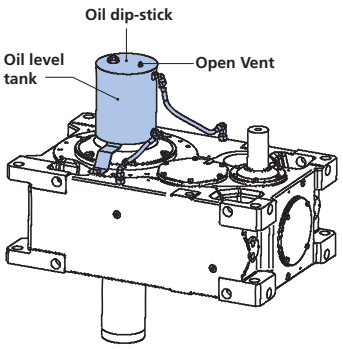
When heating of the air space located above the oil is a concern NORD may require an oil expansion chamber to allow for expansion of the oil-air mixture, avoid excessive pressure build-up, and to prevent a critical loss in oil volume through the air vent or shaft seals. During operation the oil expansion chamber provides a safe overflow area for the expanded oil-air mixture. As heat is released from the system and the reducer cools, gravity allows the oil to return to the reducer's oil sump. When using the oil expansion chamber, there may be some instances where gear units will also require specially sealed, grease-lubricated bearings.



Oil Tank (OT)

Sometimes the gearbox must be completely filled with oil in order to prevent excessive foaming and aeration while also preventing excessive pressure build-up or a critical loss in oil volume through the air vent or shaft seals. The oil tank must be located above the gear unit. Even at non-operating ambient conditions, a small amount of oil should be visible in the bottom of the oil reservoir. During operation, all critical bearing and gear areas are submersed in oil, especially the high-speed gear set. This prevents oil foaming.

The oil tank is larger in volume than the oil expansion chamber and is vented. The oil tank has two flexible oil hoses connected to the gear unit to help assure proper ventilation and passive oil circulation. Prior to start-up the oil level must be topped off and checked using the oil level dipstick that is part of the oil tank.



Thermal Options


Gearbox Cooling Using a Fan (FAN)

Through the use of fans, the thermal power capacity of the gearbox may be increased substantially. Usually, a fan can be retrofitted to the gear unit. However this must be checked for each individual case (installation space, type of gearbox, mounting position, etc.). The fan cover provides protection against contact and guides the flow of cooling air over the gearbox housing.

Installation conditions for fans

An adequate supply of air to the fan must be ensured, the vent grill in the fan cover must be kept clear.

> ⚠ *WARNING* ⚠
>
> Fans can not be combined with certain options. Please contact NORD when considering IEC, NEMA, VL,F, FK, F1 and WX options.

Standard fan (FAN)

The standard fan is suitable for both directions of rotation. It requires the free axial entry of air and is connected directly to the input shaft.

High-power fan (FAN)

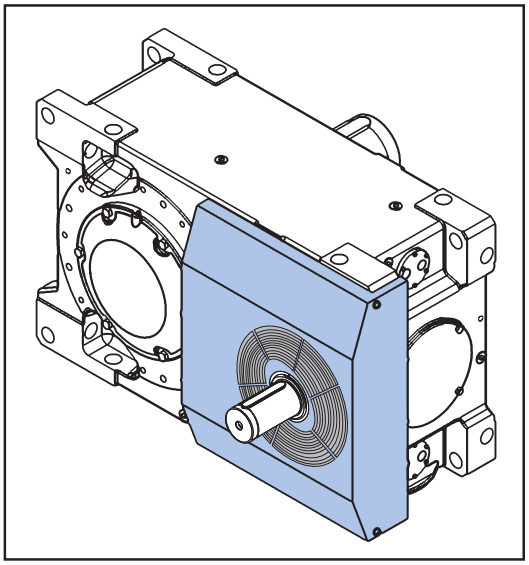
The high-power fan is also directly connected to the input shaft. It provides a higher cooling power than the standard fan, but only works in one direction of rotation.

The intake of air may be supplied in a radial direction which allows a brake or a fluid-coupling to be installed directly in front of the fan (see motor swing bases). Furthur information is available upon request. THe direction of the rotation must be specified when ordering the unit.

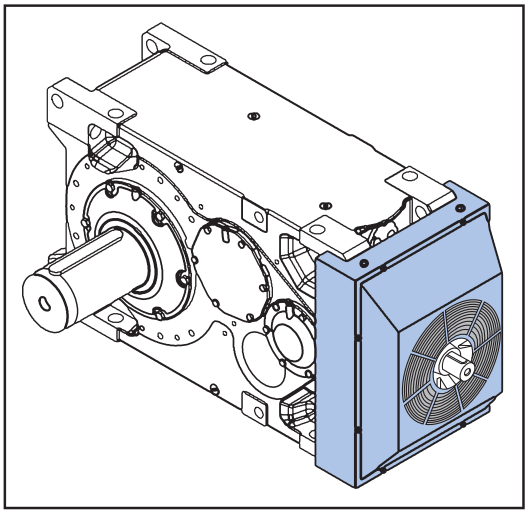
Electric fan

NORD supplies an optional electric fan as well. This fan is switched on as required with the use of a temperature switch.

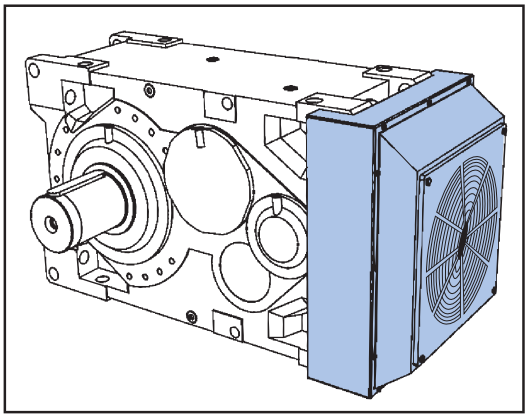
The Electric fan is only available on our parallel Maxxdrive™ gear units. The fan may be attached to both ends of the parallel gear unit. Additional information is available upon request.



Helical Gear Unit with Standard Shaft Powered Fan



Bevel Gear Unit with Standard Shaft Powered Fan



Helical Gear Unit with Electric Fan

Internal Water Cooler (CC)

The internal water cooler is a cooling coil inside the gearbox, located in the oil sump, where the end user connects the coil to a suitable water supply. Two cooling coils may be installed for mounting positions M2, M4, M5, M6 and with complete oil filling upon your request. The thermal power limit (P_{WG}) can be increased according to the following table.

Additional Thermal Power Limit ($P_{tc.20}$) with Second Cooling Coil

Gearbox	+ $P_{tc.20}$ [hp]	+ $P_{tc.20}$ [kW]
SK 11207	188	252
SK 11307	117	157
SK 11407	104	140
SK 11507	72	97
SK 12207	261	350
SK 12307	163	219
SK 12407	145	195
SK 12507	101	135
SK 13207	335	449
SK 13307	210	281
SK 13407	186	249
SK 13507	129	173
SK 15207	335	449
SK 15307	210	281
SK 15407	186	249
SK 15507	129	173

Internal water coolers available for smaller sizes upon request.

⚠ WARNING ⚠

- Integrated water cooling can be used for oil splash and immersion lubrication, however, not with pressure circulation lubrication.
- The cooling element must be completely submerged in the oil bath.

As an option, mechanical and electrical solutions for controlling the flow of cooling water are available. This allows the water consumption to be regulated by the actual required cooling power.

⚠ IMPORTANT NOTE ⚠

Sea water-resistant integrated cooling is available on request. Consultation with NORD is necessary in case of any other aggressive cooling media.

Connection of the Internal Water Cooler

Temperature-controlled cooling water with quantity regulation and a temperature sensor (optional).

Operating Conditions

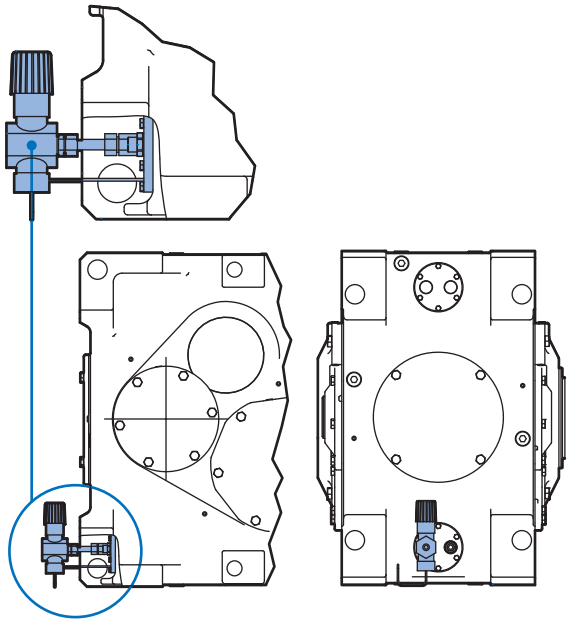
Water inlet temperature:	68 °F	20 °C
Oil temperature:	194 °F	90 °C
Ambient temperature:	68 °F	20 °C
Flow rate:	maximum 3.2 g/min	maximum 12 l/min
Pressure drop of cooling water	approx. 7.25-14.5 psi	approx. 0.5 - 1 bar

For other operating conditions, corrections to the specified thermal power limit must be taken into account.

Optional:
Temperature-controlled flow regulator to control the rate of water flow.

⚠ IMPORTANT NOTE ⚠

For low temperatures the internal water cooler may also be used as an oil heater by filling it with warm water before starting up the gearbox .



Thermal Options

External Cooling Units

In order to increase the thermal power capacity of the MAXXDRIVE™ gear unit, NORD has standard oil cooling/lubricating systems designed. These designs are readily available and offer a good price/performance ratio. The basic elements consist of a circulating oil pump, oil and heat exchanger mounted on a mounting platform or base. The optional oil filter with visual contamination indicator is also recommended in most all cases.

If other forms of reducer cooling (convection, shaft fan, water cooler, etc.) are not sufficient or not desired a standard oil cooler option can be supplied. Nord offers oil/water (CS1) and oil/air (CS2) oil coolers with a variety of optional accessories.

Optional accessories:

- Thermometer.
- Pressure switch.
- Manometer.
- Optical status monitoring.
- Electrical status monitoring.
- Oil Filter.
- Filter with bypass.
- Particle counter.

Standard operating parameters:

- Water temperature (if applicable): 68°F (20°C).
- Maximum oil temperature: 194°F (90°C).
- Ambient temperature: 68°F (20°C).

Please consult NORD if there are additional cooling system requirements or requests.

Determining the Required Oil Cooler Size

There are two methods of determining the required oil cooler size, depending upon whether the oil cooler must provide all the cooling capacity for the gear unit or whether the oil cooler provides supplemental cooling.

Method 1 – Oil Cooler Provides All the Cooling Capacity

1. Determine the required oil cooling power as follows:

$$P_{CS} = P_1 \cdot (1-\eta_N)$$

P_{CS} = The required cooling power of the oil cooling system
P_1 = Installed motor power or required input power to the gear unit
η_N = Nominal gear reducer efficiency (in decimal form)

2. Select an oil cooler by applying the following criteria:

$$Q_{CS} \geq P_{CS} \cdot (1-\eta_N)$$

Q_{CS} = The cooling power capacity of the selected oil cooling system
P_{CS} = Required cooling power of the oil cooling system
η_N = Nominal gear reducer efficiency

Method 2 – Oil Cooler Provides Additional/Supplemental Cooling Capacity

1. Determine the required oil cooling power as follows:

$$P_{CS} = (P_1-P_{wg}) \cdot (1-\eta_N)$$

P_{CS} = The required cooling power of the oil cooling system
P_1 = Installed motor power or required input power to the gear unit
P_{wg} = Calculated thermal power capacity with an additional cooling method (see page 18)
η_N = Nominal gear reducer efficiency (in decimal form)

2. Select an oil cooler by applying the following criteria:

$$Q_{CS} \geq P_{CS} \cdot (1-\eta_N)$$

Q_{CS} = The cooling power capacity of the selected oil cooling system
P_{CS} = Required cooling power of the oil cooling system
η_N = Nominal gear reducer efficiency

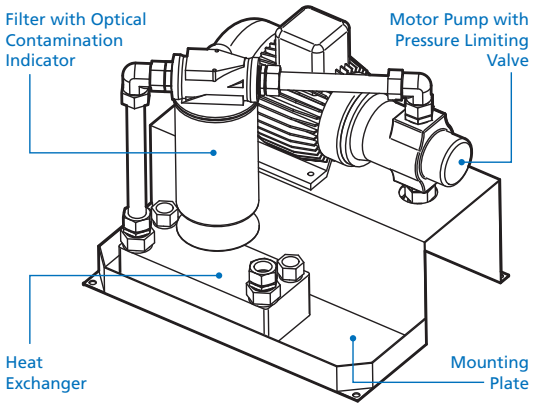
⚠ *IMPORTANT NOTE* ⚠

The oil cooler thermal power limits shown in the respective tables are based upon standard installation and operating conditions (page 10) for the case when the oil cooler must provide all the cooling capacity for the gear unit.

External oil / water cooler (CS1)

The oil/water cooling system can be combined with all gear units and can be mounted on all mounting surfaces and the optional oil filter can be rotated into a suitable position. The customer must always supply the water inlet piping. The cooling system can also be installed separately, in which case NORD does not supply the piping between the gearbox and the cooling system.

> ⚠ *IMPORTANT NOTE* ⚠
>
> Additional measuring devices for the cooling system are available upon request

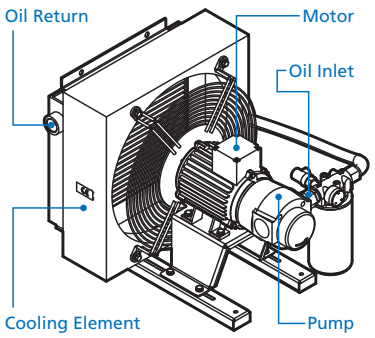


CS1 Cooler Specifications

CS1 Oil Cooler Size	Cooling Power Q_{CS}	Thermal Power Limit with P_{WG} CS1				Water Flow Rate V_W	Oil Flow Rate V_{OI}	Water Inlet Temp. t_W		Pump Motor Power
		SK..2 07	SK..3 07	SK..4 07	SK..5 07					
[-]	[hp]	[hp]	[hp]	[hp]	[hp]	[gpm]	[gpm]	[°F]	[°C]	[hp]
A	4.8	193	121	108	74	1.32	3.17	68	20	0.89
B	11.3	451	282	251	174	2.64	6.34	68	20	2.40
C	16.9	676	423	375	261	2.64	6.34	68	20	2.40
D	20.9	837	523	465	322	5.28	12.70	68	20	2.40
E	26.6	1062	665	591	409	5.28	12.70	68	20	2.40
F	37	1480	925	822	570	5.28	12.70	68	20	2.40
G	50.7	2028	1266	1126	780	10.60	25.40	68	20	4.80
H	80.5	3218	2012	1788	1237	10.60	25.40	68	20	4.80

External oil / air cooler (CS2)

If cooling water is not available and other forms of cooling (convection, shaft fan, etc.) are not sufficient or not desired, an oil/air cooler can be supplied.
can be used.



CS2 Cooler Specifications

CS2 Oil Cooler Size	Cooling Power Q_{CS}	Thermal Power Limit with P_{WG} CS2				Oil Flow Rate V_{OI}	Pump Motor Power	Weight
		SK..2 07	SK..3 07	SK..4 07	SK..5 07			
[-]	[hp]	[hp]	[hp]	[hp]	[hp]	[gpm]	[hp]	[lb]
A	4.8	193	121	108	74	12	2 X 0.40	68
B	11.3	451	282	251	174	24	1.2	75
C	16.9	676	423	375	261	24	1.2	75
D	20.9	837	523	465	322	48	2.4	117
E	26.6	1062	665	591	409	48	2.4	117
F	37	1480	925	822	570	48	2.4	117
G	50.7	2028	1266	1126	780	96	4.8	187
H	80.5	3218	2012	1788	1237	96	4.8	187

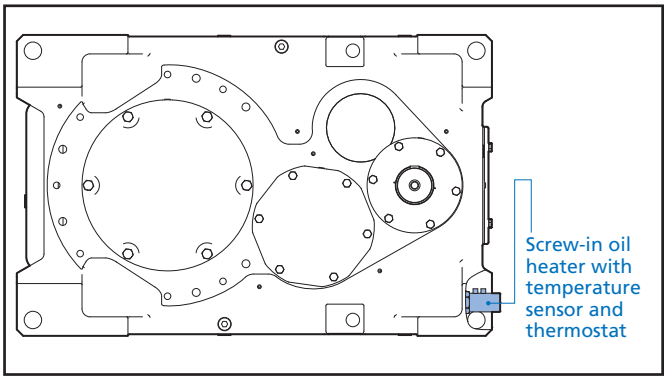
Thermal Options

Oil heater (OH)

In case the ambient temperature is lower than what is permissible , the gear oil must be heated prior to a cold start, in order to ensure an adequate supply of lubricant. For these conditions, an oil heating cartridge may be installed into the gearbox.

The oil heater has both a temperature sensor and a thermostat, which is pre-set. Further variations are available on request.

If pressure circulation lubrication is used, the operational viscosity of the gear oil on start-up must be above 1800 cSt. For ISO-VG220 this corresponds to a temperature of at least (50°F) 10°C for mineral oil, and a temperature of at least (32°F) 0°C for synthetic oil. Below this range an oil heater must be used.



⚠ WARNING ⚠
The oil heater must be fully immersed in the oil bath in order to prevent damage. An oil heater is not allowed when you are using pressure circulated lubrication.

Lubrication systems

NORD recommends only high quality gear oils that provide excellent wear and load bearing protection, corrosion protection and aging resistance. The lubricant must also contain anti-wear and/or extreme pressure additives to provide adequate protection while operating in a mixed friction regime (or when partial to full boundary lubrication conditions exist).

As a minimum, the lubricating oil should also meet the following criteria:

- The gear oil must exhibit high film strength in order to handle high torque, shock loads, and start-up conditions.
- The gear oil should have the ability to operate at moderate sump temperatures without losing viscosity or thickness. Sump temperatures should be allowed to approach 80°C-85°C (176°F-185°F) for mineral oil or 105°C (221°F) for synthetic oil
- The gear oil should have a minimum viscosity index of 95 or higher.
- FZG scuffing load test result > Stage 12 (per DIN 51354-2).
- FAG-FE-8 roller bearing test should result in roller element wear < 30 mg and cage wear less than 100 mg (per DIN51819-3).
- Compatibility with standard elastomeric sealing materials must also be assured.

Lubrication Types

The lubricant is an element of design and often an optimal lubricant viscosity or type is recommended by NORD on the basis of the operating and ambient conditions and the type of gear unit being specified.

Only CLP (DIN 51517- 3) quality oils are approved for the MAXXDRIVE™ gear units. A list of possible oils meeting the general CLP requirements (found on page 63), are categorized in the following table.

CLP	High-performance mineral oil (an EP additive is recommended by NORD).
CLP HC	Synthetic polyalphaolefin oil
CLP PG	Synthetic polyglycol oil
CLP PAO H1 or CLP PG H1	Food-grade oil (must qualify as an NSF-H1 oil per FDA 212 CFR 178.3570).
E	Bio-degradable oil

⚠ *IMPORTANT NOTE* ⚠

NORD will determine the type and viscosity of the lubricant for each specific order. This will be entered in the order confirmation and on the reducer nameplate.

Lubrication Methods

MAXXDRIVE™ gear units that are mounted in a horizontal position are intended to be oil splash lubricated. Those units mounted in a vertical or standing position may utilize bath (immersion) lubrication. In many instances forced lubrication or pressure lubrication offers advantages as well.

1. Splash Lubrication

The gearbox oil is kept at a relatively low level. The gearing and bearing components that do not dip into the oil are lubricated by splashing oil. This is the usual form of lubrication for horizontal installation positions (M1/M3). In slow speed operation, oil splash may not deliver lubricant to all critical areas. In high speed operation, oil splash may contribute to excessive churning losses and undesirable reducer heating.

2. Bath (Immersion) Lubrication

The gear unit is full or nearly full with oil with all gear and bearing surfaces completely or partially immersed in an oil bath. Bath lubrication is one way of assuring proper lubrication to gear units mounted in standing (M2 or M4) or vertical (M5 or M6) positions. Bath lubrication may sometimes lead to higher oil churning losses, higher operating temperatures, and reduced efficiency. These instances may also dictate the need for larger gear cases or additional cooling options and accessories. Pressure (forced) lubrication may eliminate the need for more costly accessories or options while also reducing operating temperatures and extending lubrication life.

3. Pressure (Forced) Lubrication [L_C]

With pressure or forced lubrication, a pump (shaft driven or motorized) is provided, which allows a relatively low oil level to be maintained. The pump and oil distribution lines deliver the oil to all critical gear and bearing areas. Oil levels may be lowered, even compared to standard splash oil levels. This type of lubrication is advisable for the following operating conditions:

- When splash or bath lubrication is not possible or not thermally advantageous.
- When high input speeds are present and the speed limit for other lubrication methods are being exceeded (based on size, ratio and mounting).
- If a drywell is required with a vertical output shaft.

⚠ *IMPORTANT NOTE* ⚠

Consult NORD when considering either bath lubrication or pressure lubrication so that appropriate options and accessories can be recommended.

Lubrication

Typical Lubrication Recommendations

The MAXXDRIVE™ gear units are designed to be able to operate with high performance mineral oil containing an extreme pressure (EP) additive. A viscosity grade ISO VG220 EP (AGMA 5 EP) mineral oil is typical for ambient temperature conditions between 0°C-40°C (32°F-104°F).

While the MAXXDRIVE™ gear units are designed to be able to operate with high performance mineral oil, NORD strongly recommends the use of synthetic oil. Compared to mineral oil, synthetic oil offers the following advantages that provided added wear protection and extend reducer component life:

- Higher film strength, lower traction coefficient and improved lubricity.
- Reduced internal friction (reduced by as much as ½ compared to mineral oil) resulting in lower operating temperatures and improved gear efficiency.
- Superior wear and thermo-oxidative resistance, provides enhanced system cleanliness and enables longer service intervals.
- Higher viscosity index offering improved low temperature and high temperature stability.

Oil Filling Guidelines

Prior to start-up the proper oil fill level must be established.

⚠ *IMPORTANT NOTE* ⚠

- The MAXXDRIVE™ gear units are not filled with oil upon delivery. The tables starting on page 58 provide a guideline for the lubrication amount based upon the installation position.
- The actual oil volume will vary depending upon the gear unit type and configuration, mounting position and ratio.
- When filling the reducer, always check the oil-fill level using the reducer's oil level plug. Oil plug locations for common mounting configurations are shown on page 66.
- In some instances NORD may supply a pre-stage gear unit or an auxiliary (inching) drive and these units are typically filled with the proper type and amount of oil (see separate user manual documentation).

Lubrication Replacement

If the gear unit is filled with mineral oil, the lubricant should be replaced at least after every 10,000 operating hours or after every two years, whichever comes first.

If the gear unit is filled with synthetic oil, the lubricant should be replaced at least after every 20,000 operating hours or after every 3 years, whichever comes first.

Often gear reducers are exposed to extreme operating conditions or hostile environments such as: high humidity or wet conditions, high ambient temperatures or high operating temperatures, or dirty and dusty operating areas. Especially in these situations, it is important to change the reducer lubricant more often that what is suggested as a typical guideline.

⚠ *WARNING* ⚠

- Do not mix different oils with different additive packages or different base oil formulation types. Polyglycol (PG) oils are not miscible with other oil types and should never be mixed with mineral oil, or Polyalphaolefin (PAO) oil.
- When making a lubrication change, check with the lubrication supplier to assure compatibility with the original oil used and to obtain recommended cleaning or flushing procedures.

Importance of Routine Oil Analysis

Routine oil analysis, sound lubrication practices, and good tracking of oil performance trends will help establish proper lubrication maintenance and changeout intervals. To maximize equipment reliability NORD Gear recommends a condition-based lubrication maintenance program be applied to the MAXXDRIVE™ gear units. NORD suggests replacing the gear oil if oil analysis indicates any of the following:

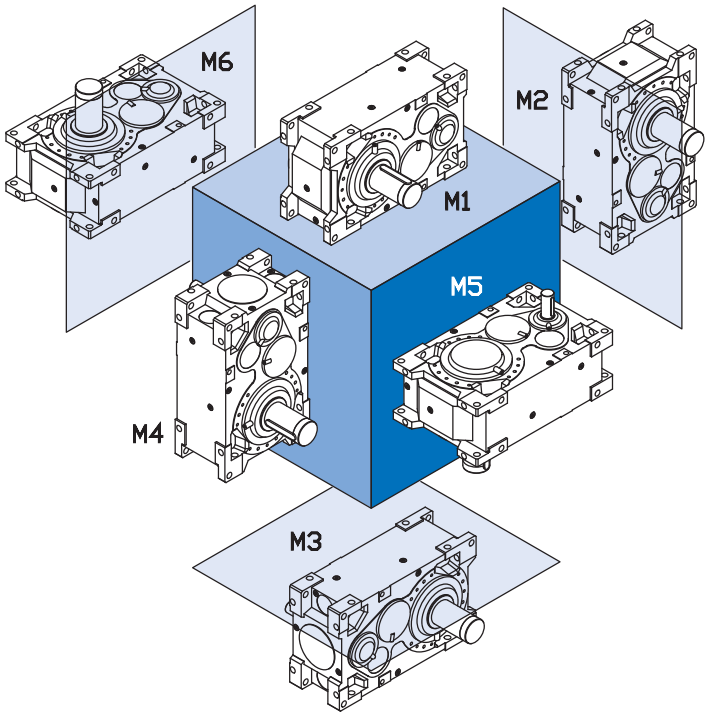
- Viscosity has changed by approximately 10% or more.
- Debris particles (silicon, dust, dirt or sand) exceed 25 ppm.
- Iron content exceeds 150-200 ppm.
- Water content is greater than 0.05% (500 ppm).
- The total acid number (TAN) tests indicate a significant level of oxidative break-down of the oil, and a critical reduction in performance; If the TAN number measured changes by more than 5% over the new oil, then an oil change would be recommended.

Available Lubricants

DIN / ISO ISO/VG AGMA	ARAL	bp	Castrol	FUCHS	KLÜBER LUBRICATION	Mobil	Shell
CLP 220 L-CKC 220 AGMA 5EP	Degol BG 220 Plus Degol BMB 220	Energol GR-XP 220	Alpha SP 220 Alpha MAX 220 Optigear BM 220 Tribol 1100 / 220	Renolin CLP 220 Renolin CLP 220 Plus Gearmaster CLP 220	Klüberoil GEM 1 - 220 N	Mobilgear 600 XP 220 Mobilgear XMP 220	Shell Omala F 220
CLP 320 L-CKC 320 AGMA 6EP	Degol BG 320 Plus Degol BMB 320	Energol GR-XP 320	Alpha SP 320 Alpha MAX 320 Optigear BM 320 Tribol 1100 / 320	Renolin CLP 320 Renolin CLP 320 Plus Gearmaster CLP 320	Klüberoil GEM 1 - 320 N	Mobilgear 600 XP 320 Mobilgear XMP 320	Shell Omala F 320
CLP 680 L-CKC 680 AGMA 8EP	Degol BG 680 Plus Degol BMB 680	Energol GR-XP 680	Alpha SP 680 Optigear BM 680 Tribol 1100 / 680	Renolin CLP 680 Renolin CLP 680 Plus Gearmaster CLP 680	Klüberoil GEM 1 - 680 N	Mobilgear 600 XP 680 Mobilgear XMP 680	-
CLP PG 220 L-CKT 220 AGMA 5EP	Degol GS 220	Enersyn EP-XP 220	Tribol 1300 / 220	Renolin PG 220 Gearmaster PGP 220	Klübersynth GH 6 - 220	-	Shell Tivela S 220 Shell Cassida WG 220
CLP PG 320 L-CKT 320 AGMA 6EP	Degol GS 320	Enersyn EP-XP 320	Tribol 1300 / 320	Renolin PG 320 Gearmaster PGP 320	Klübersynth GH 6 - 320	-	Shell Tivela S 320 Shell Cassida WG 320
CLP PG 680 L-CKT 680 AGMA 8EP	Degol GS 680	Enersyn EP-XP 680	Tribol 1300 / 680	Renolin PG 680 Gearmaster PGP 680	Klübersynth GH 6 - 680	-	Shell Tivela S 680 Shell Cassida WG 680
CLP HC 220 L-CKT 220 AGMA 5EP	Degol PAS 220	Enersyn EP-XF 220	Optigear Synth X 220 Tribol 1710 / 220	Renolin Unisyn CLP 220 Gearmaster SYN 220	Klübersynth GEM 4 - 220N	Mobil SHC 630	Shell Omala HD 220
CLP HC 320 L-CKT 320 AGMA 6EP	Degol PAS 320	Enersyn EP-XF 320	Optigear Synth X 320 Tribol 1710 / 320	Renolin Unisyn CLP 320 Gearmaster SYN 320	Klübersynth GEM 4 - 320N	Mobil SHC 632	Shell Omala HD 320
CLP HC 680 L-CKT 680 AGMA 8EP	-	-	Optigear Synth X 680	Renolin Unisyn CLP 680 Gearmaster SYN 680	Klübersynth GEM 4 - 680N	-	Shell Omala HD 680
E 220 L-CKT 220 AGMA 5EP	DegolBAB 220	-	Tribol BioTop 1418 / 220	Plantogear 220 S Gearmaster ECO 220	Klübersynth GEM 2 - 220	-	Shell Naturelle Gear Fluid EP 220
E 320 L-CKT 320 AGMA 6EP	DegolBAB 320	-	Tribol BioTop 1418 / 320	Plantogear 320 S Gearmaster ECO 320	Klübersynth GEM 2 - 320	-	Shell Naturelle Gear Fluid EP 320
E 680 L-CKT 680 AGMA 8EP	DegolBAB 680	-	-	Plantogear 680 S Gearmaster ECO 680	-	-	-
CLP PG H1 220 L-CKT 220 AGMA 5EP	-	-	Optileb GT 220	-	Klübersynth UH1 6 - 220	-	Shell Cassida WG 220
CLP PG H1 320 L-CKT 320 AGMA 6EP	-	-	Optileb GT 320	-	Klübersynth UH1 6 - 320	-	Shell Cassida WG 320
CLP PG H1 680 L-CKT 680 AGMA 8EP	-	-	Optileb GT 680	-	Klübersynth UH1 6 - 680	-	Shell Cassida WG 680

This table shows comparable lubricants from various manufacturers. The manufacturer can be changed within a particular viscosity or lubricant type. We must be contacted in case of change of viscosity or lubricant type, as otherwise no warranty for the functionality of our gearboxes can be accepted.

Industrial Gear Unit
Helical Mounted Positions
& Oil Fill Quantities

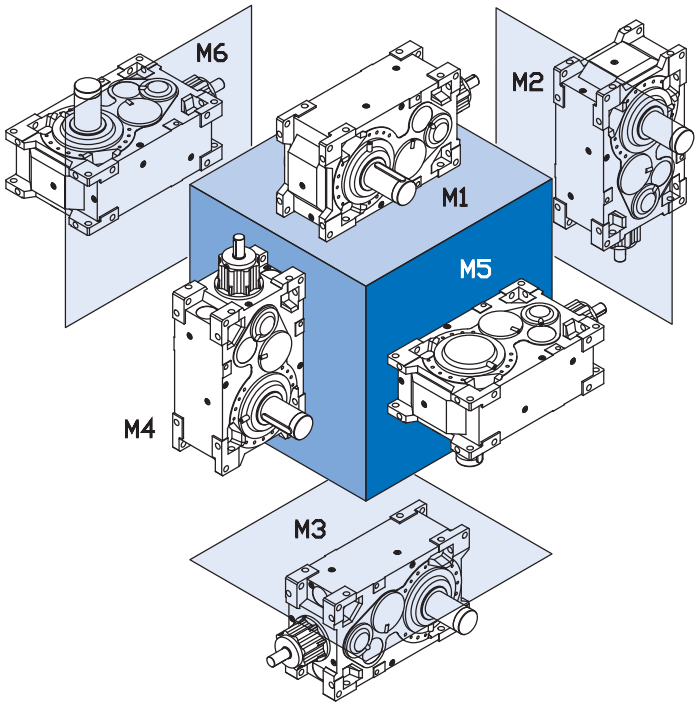


Unit Type	M1 Liters	M2 Liters	M3 Liters	M4[1)] Liters	M5[2)] Liters	M6[2)] Liters	max[3)] Liters
SK 7207/7307	36	45	36	48	46	46	62
SK 8207/8307	44	55	44	59	57	57	76
SK 9207/9307	57	71	57	76	74	74	98
SK 10207/10307	72	89	72	96	92	92	123
SK 11207/11307	105	130 / 50 [4)]	105	140 / 40 [4)]	135 / 45 [4)]	135 / 45 [4)]	180
SK 12207 /12307	116	185 / 83 [4)]	116	203 / 65 [4)]	199 / 69 [4)]	199 / 69 [4)]	268
SK 13207 /13307	154	256 / 107 [4)]	154	290 / 73 [4)]	268 / 95 [4)]	268 / 95 [4)]	363
SK 15207 /15307	358	415 / 160 [4)]	335	450 / 125 [4)]	405 / 170 [4)]	412 / 163 [4)]	575

Unit Type	R Liters	VL2 Liters	VL3 Liters	OT Liters	CS Liters
SK 7207/7307	+1	+8	+8	+7	-
SK 8207/8307	+1	+8	+8	+7	-
SK 9207/9307	+2	+12	+12	+7	-
SK 10207/10307	+2	+12	+12	+7	-
SK 11207	+2	+15	+15	+15	+5
SK 11307	+2	+15	+15	+15	+8
SK 12207	+3	+20	+20	+15	+8
SK 12307	+3	+20	+20	+15	+12
SK 13207/13307	+5	+25	+25	+15	+12
SK 15207/15307	+7	+30	+30	+15	+15

1) Pressure (forced) lubrication is necessary for the bevel gear stages
2) With pressure (forced) lubrication
3) Please check thermal capacity of the gear unit
4) Reduced oil level with pressure (forced) lubrication

Industrial Gear Unit
Bevel Mounted Positions & Oil Fill Quantities



Unit Type	M1 Liters	M2 Liters	M3 Liters	M4[1] Liters	M5[2] Liters	M6[2] Liters	max[3] Liters
SK 7407/7507	38	47	38	50	49	50	64
SK 8407/8507	47	58	47	62	60	62	79
SK 9407/9507	61	75	61	80	78	80	102
SK 10407/10507	77	94	77	101	97	101	128
SK 11407/11507	112	137	112	147	142	147	187
SK 12407/ 12507	126	195	126	213	209	209	278
SK 13407/ 13507	168	270	168	304	282	282	377
SK 15407/ 15507	382	439	359	474	429	436	599

Unit Type	R Liters	VL2 Liters	VL3 Liters	OT Liters	CS Liters
SK 7407/7507	+1	+8	+8	+7	-
SK 8407/8507	+1	+8	+8	+7	-
SK 9407/9507	+2	+12	+12	+7	-
SK 10407/10507	+2	+12	+12	+7	-
SK 11407	+2	+15	+15	+15	+5
SK 11507	+2	+15	+15	+15	+8
SK 12407	+3	+20	+20	+15	+8
SK 12507	+3	+20	+20	+15	+12
SK 13407/13507	+5	+25	+25	+15	+12
SK 15407/15507	+7	+30	+30	+15	+15

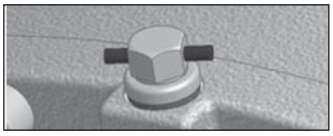
1) Pressure (forced) lubrication is necessary for the bevel gear stages
2) With pressure (forced) lubrication
3) Please check thermal capacity of the gear unit
4) Reduced oil level with pressure (forced) lubrication

Oil & Drain Plug Locations

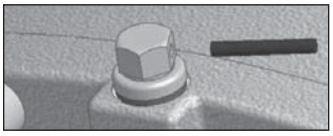
DRIVESYSTEMS

Oil Fill, Drain and Vent Locations

All MAXXDRIVE™ gear units are supplied with an oil level plug, an oil fill plug and a vent. All of the remaining holes are sealed. Alternative positions based on the locations of the remaining holes can be provided if requested.



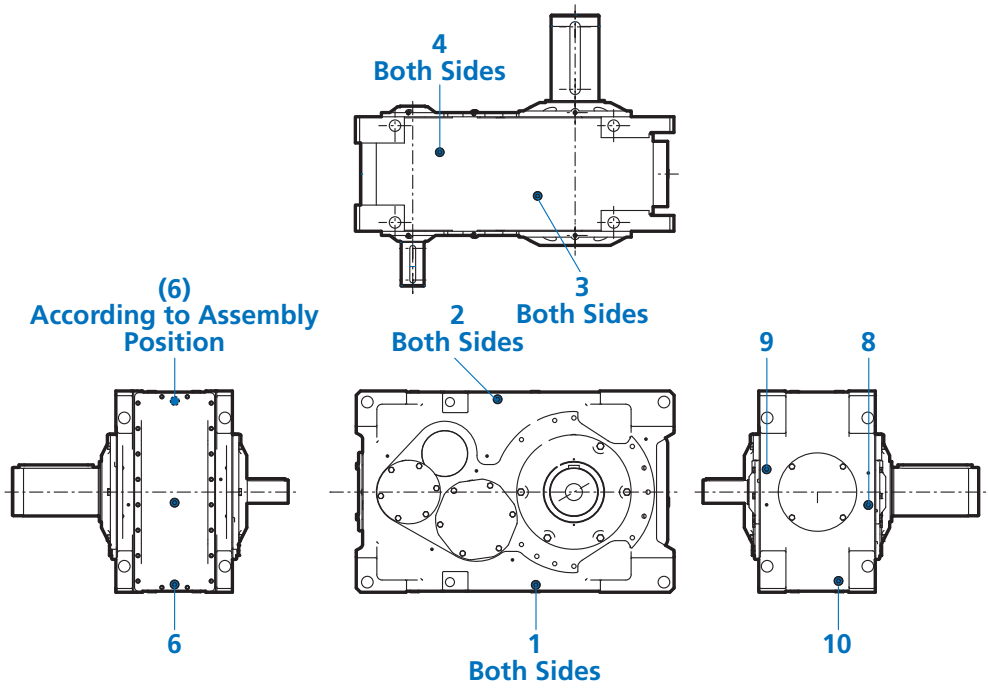
Sealed vent



Activated vent

⚠ WARNING ⚠

To prevent build-up of excessive pressure, sealed vents must be activated as shown prior to gear unit start up.



No.	Thread	Installation position[3]					
		M1	M2	M3	M4	M5	M6
1	G1″	■	▼[1]	▽	▼[1]	■ / ▽	■ / ▽
2	G1″	▽	▼[1]	■	▼[1]	■ / ▼	■ / ▼
3	G1″	▼	▼	▼	▼[1]	▼	▼[1]
4	G1″	▽	---	▽	▼	▼[1]	▼
6	G1″	■ / ▽[2]	---	■ / ▽[2]	■	▼[1]	▼[1]
7	G1″	▼[1]	▼	▼[1]	■	▼[1]	▼[1]
8	G1″	▼	■	▼	▼	■	▽
9	G1″	▼[1]	■	▼[1]	▽	▽	■
10	G1″	■	▽	▽	■	▼[1]	▼[1]

1) Special Oil Level

2) Dependant on Cover Assembly

3) Installation M1 - M6 refer to page 28

Blue Labeling Verifies the Standard Location

■ ■ = Oil Drain Plug ▽ ▼ = Vent ▼ ▼ = Oil Fill Level

Reducer Tolerances

Solid & Hollow Shaft Tolerances

Solid Shaft Diameter Tolerance	[mm]
> ø 14 - ø 50	ISO k6
> ø 50	ISO m6

Shaft Tolerance According to: DIN 748

Keyed Hollow Bore Tolerances [mm]
According to DIN 748 & ISO H7

Solid Shaft Drill & Tap End - Threaded Holes [mm]	
= ø 13 - ø 16	M5
> ø 16 - ø 21	M6
> ø 21 - ø 24	M8
> ø 24 - ø 30	M10
> ø 30 - ø 38	M12
> ø 38 - ø 50	M16
> ø 50 - ø 85	M20
> ø 85 - ø 130	M24
> ø 130 - ø 225	M36
> ø 225 - ø 320	M48

Splined Hollow Shaft Tolerance [mm]
Splined Hub Section of DIN 5480 9H

Solid Shaft Parallel Keys [mm]
According to DIN 6885 Sheets 1 & 3

Hollow Shaft Parallel Keys [mm]
According to DIN 6885 Sheets 1 & 3

Customer Shaft & Other Tolerances

Customer Shafts [mm]
Tolerance According to ISO h6
L = Length of plug-in shaft
DIN 5480 Recommended Fitting 8f
Shrink Disc Tolerance According to ISO g6

Customer Shaft Parallel Keys [mm]
According to DIN 6885 Sheets 1 & 3

⚠ IMPORTANT NOTE ⚠
Alternate inch dimensions and tolerances are available upon request.

Axle Height
Axle Height According to DIN 747

Flanges
Tolerance of bolt hole According to DIN 42 948
Tolerance of the pilot According to DIN 42 948 ≤ ø 230 mm according to ISO j6 > ø 230 mm according to ISO h6

Cast Iron Surfaces
Cast iron surfaces are subject to minor variations due to the manufacturing process.

SK..207 & SK..307 Weights

	V	L	A	AS
SK 7207 **SK 7307**	1043 lb 1122 lb	1168 lb 1257 lb	922 lb 1001 lb	968 lb 1052 lb
SK 8207 **SK 8307**	1215 lb 1305 lb	1340 lb 1442 lb	1093 lb 1186 lb	1138 lb 1235 lb
SK 9207 **SK 9307**	2101 lb 2260 lb	2355 lb 2531 lb	1817 lb 1973 lb	1907 lb 2072 lb
SK 10207 **SK 10307**	2396 lb 2577 lb	2648 lb 2848 lb	2110 lb 2291 lb	2202 lb 2390 lb
SK 11207 **SK 11307**	3064 lb 3219 lb	3219 lb 3373 lb	2756 lb 2910 lb	2866 lb 3020 lb
SK 12207 **SK 12307**	4420 lb 4652 lb	4652 lb 4883 lb	3935 lb 4167 lb	4101 lb 4332 lb
SK 13207 **SK 13307**	6217 lb 6702 lb	6570 lb 7055 lb	5423 lb 5908 lb	5732 lb 6217 lb
SK 15207 **SK 15307**	9833 lb 10362 lb	10240 lb 10770 lb	8896 lb 9425 lb	9215 lb 9744 lb

	R	VFVL2/3	AFVL2/3	ASFVL2/3	F	FK
SK 7207 **SK 7307**	+ 7 lb + 5 lb	+ 147 lb	+ 79 lb	+ 99 lb	+ 51 lb	+ 63 lb
SK 8207 **SK 8307**	+ 8 lb + 6 lb	+ 181 lb	+ 97 lb	+ 122 lb	+ 63 lb	+ 78 lb
SK 9207 **SK 9307**	+ 11 lb + 8 lb	+ 235 lb	+ 126 lb	+ 158 lb	+ 82 lb	+ 101 lb
SK 10207 **SK 10307**	+ 14 lb + 10 lb	+ 294 lb	+ 157 lb	+ 198 lb	+ 103 lb	+ 127 lb
SK 11207 **SK 11307**	+ 44 lb + 33 lb	+ 948 lb	+ 507 lb	+ 639 lb	+ 331 lb	+ 408 lb
SK 12207 **SK 12307**	+ 77 lb + 33 lb	+ 1323 lb	+ 750 lb	+ 904 lb	+ 452 lb	+ 573 lb
SK 13207 **SK 13307**	+ 77 lb + 33 lb	+ 1874 lb	+ 1036 lb	+ 1268 lb	+ 650 lb	+ 805 lb
SK 15207 **SK 15307**	+ 132 lb + 77 lb	+ 3153 lb	+ 1852 lb	+ 2138 lb	---	---

CAUTIONS

The weight data is based on gear units without oil and add-ons. The actual weights can be supplied with the gear unit documentation.

SK..207 & SK..307 Weights

	D	ED	WX	H (FAN)	H (AS)	CC
SK 7207 SK 7307	+22 lb	+86 lb	+84 lb	+18 lb	+7 lb	+7 lb
SK 8207 SK 8307	+29 lb	+106 lb	+101 lb	+20 lb	+9 lb	+9 lb
SK 9207 SK 9307	+35 lb	+139 lb	+132 lb	+26 lb	+11 lb	+11 lb
SK 10207 SK 10307	+46 lb	+174 lb	+165 lb	+33 lb	+15 lb	+15 lb
SK 11207 SK 11307	+ 66 lb	+ 254 lb	+ 243 lb	+ 49 lb	+ 22 lb	+ 22 lb
SK 12207 SK 12307	+ 77 lb	+ 254 lb	+ 243 lb	+ 55 lb	+ 24 lb	+ 26 lb
SK 13207 SK 13307	+ 88 lb	+ 298 lb	+ 243 lb	+ 62 lb	+ 29 lb	+ 33 lb
SK 15207 SK 15307	+ 99 lb	+ 298 lb	+ 265 lb	+ 77 lb	+ 35 lb	+ 33 lb

	IEC 100	IEC112	IEC132	IEC 160	IEC 180	IEC 200	IEC 225	IEC 250	IEC 280	IEC 315	TN315	TN355
SK 7207 SK 7307	+29 lb	+29 lb	+373 lb	+163 lb	+163 lb	+154 lb	+174 lb	+207 lb	+207 lb	+254 lb	+302 lb	+366 lb
SK 8207 SK 8307	+29 lb	+29 lb	+373 lb	+163 lb	+163 lb	+154 lb	+174 lb	+207 lb	+207 lb	+254 lb	+302 lb	+366 lb
SK 9207 SK 9307	+29 lb	+29 lb	+373 lb	+168 lb	+168 lb	+159 lb	+176 lb	+212 lb	+212 lb	+258 lb	+306 lb	+370 lb
SK 10207 SK 10307	+29 lb	+29 lb	+373 lb	+168 lb	+168 lb	+159 lb	+176 lb	+212 lb	+212 lb	+258 lb	+306 lb	+370 lb
SK 11207 SK 11307	---	---	---	+ 313 lb	+ 313 lb	+ 304 lb	+ 324 lb	+ 357 lb	+ 357 lb	+ 403 lb	+ 452 lb	+ 518 lb
SK 12207 SK 12307	---	---	---	+ 370 lb	+ 370 lb	+ 359 lb	+ 379 lb	+ 414 lb	+ 414 lb	+ 461 lb	+ 509 lb	+ 573 lb
SK 13207 SK 13307	---	---	---	+ 406 lb	+ 406 lb	+ 397 lb	+ 417 lb	+ 450 lb	+ 450 lb	+ 496 lb	+ 545 lb	+ 611 lb
SK 15207 SK 15307	---	---	---	+ 507 lb	+ 507 lb	+ 498 lb	+ 518 lb	+ 551 lb	+ 551 lb	+ 597 lb	+ 646 lb	+ 710 lb

CAUTIONS

The weight data is based on gear units without oil and add-ons. The actual weights can be supplied with the gear unit documentation.

SK..407 & SK..507 Weights

	V	L	A	AS
SK 7407	1195 lb	1329 lb	1074 lb	1124 lb
SK 7507	1177 lb	1303 lb	1056 lb	1100 lb
SK 8407	1367 lb	1501 lb	1246 lb	1296 lb
SK 8507	1360 lb	1614 lb	1076 lb	1166 lb
SK 9407	2302 lb	2573 lb	2015 lb	2114 lb
SK 9507	2328 lb	2579 lb	2041 lb	2134 lb
SK 10407	2597 lb	2868 lb	2310 lb	2410 lb
SK 10507	2646 lb	3005 lb	2434 lb	2593 lb
SK 11407	3219 lb	3373 lb	2910 lb	3020 lb
SK 11507	3384 lb	3538 lb	3075 lb	3186 lb
SK 12407	4817 lb	5049 lb	4332 lb	4497 lb
SK 12507	4839 lb	5071 lb	4354 lb	4519 lb
SK 13407	6548 lb	6900 lb	5754 lb	6151 lb
SK 13507	7033 lb	7385 lb	6239 lb	6548 lb
SK 15407	10516 lb	10924 lb	9579 lb	9899 lb
SK 15507	10902 lb	11310 lb	9965 lb	10285 lb

	R	VFVL2/3	AFVL2/3	ASFVL2/3	F	FK
SK 7407	+ 15 lb	+ 324 lb	+ 174 lb	+ 218 lb	+ 112 lb	+ 139 lb
SK 7507	+ 11 lb					
SK 8407	+ 18 lb	+ 399 lb	+ 214 lb	+ 269 lb	+ 139 lb	+ 172 lb
SK 8507	+ 13 lb					
SK 9407	+ 24 lb	+ 518 lb	+ 278 lb	+ 348 lb	+ 181 lb	+ 223 lb
SK 9507	+ 18 lb					
SK 10407	+ 31 lb	+ 648 lb	+ 346 lb	+ 437 lb	+ 227 lb	+ 280 lb
SK 10507	+ 22 lb					
SK 11407	+ 44 lb	+ 939 lb	+ 514 lb	+ 637 lb	+ 324 lb	+ 403 lb
SK 11507	+ 29 lb					
SK 12407	+ 73 lb	+ 1327 lb	+ 745 lb	+ 902 lb	+ 456 lb	+ 569 lb
SK 12507	+ 29 lb					
SK 13407	+ 73 lb	+ 644 lb	+ 642 lb	+ 644 lb	+ 646 lb	+ 805 lb
SK 13507	+ 29 lb					
SK 15407	+ 132 lb	+ 3146 lb	+ 1850 lb	+ 2136 lb	+ 882 lb	---
SK 15507	+ 73 lb					

CAUTIONS

The weight data is based on gear units without oil and add-ons. The actual weights can be supplied with the gear unit documentation.

SK..407 & SK..507 Weights

	D	ED	WX	H (FAN)	H (AS)	CC
SK 7407 SK 7507	+ 22 lb	+ 86 lb	+ 84 lb	+ 18 lb	+ 7 lb	+ 7 lb
SK 8407 SK 8507	+ 29 lb	+ 106 lb	+ 101 lb	+ 20 lb	+ 9 lb	+ 9 lb
SK 9407 SK 9507	+ 35 lb	+ 139 lb	+ 132 lb	+ 26 lb	+ 11 lb	+ 11 lb
SK 10407 SK 10507	+ 46 lb	+ 174 lb	+ 165 lb	+ 33 lb	+ 15 lb	+ 15 lb
SK 11407 SK 11507	+ 66 lb	+ 254 lb	+ 243 lb	+ 49 lb	+ 22 lb	+ 22 lb
SK 12407 SK 12507	+ 77 lb	+ 254 lb	+ 243 lb	+ 55 lb	+ 24 lb	+ 26 lb
SK 13407 SK 13507	+ 88 lb	+ 298 lb	+ 243 lb	+ 62 lb	+ 29 lb	+ 33 lb
SK 15407 SK 15507	+ 99 lb	+ 298 lb	+ 265 lb	+ 77 lb	+ 35 lb	+ 33 lb

	IEC 100	IEC112	IEC132	IEC 160	IEC 180	IEC 200	IEC 225	IEC 250	IEC 280	IEC 315	TN 315	TN 355
SK 7407 SK 7507	+ 29 lb + 192 lb	+ 29 lb + 192 lb	+ 373 lb + 262 lb	+ 201 lb	+ 201 lb	+ 192 lb	+ 209 lb	+ 245 lb	+ 245 lb	+ 291 lb	+ 340 lb	+ 403 lb
SK 8407 SK 8507	+ 29 lb + 192 lb	+ 29 lb + 192 lb	+ 373 lb + 262 lb	+ 201 lb	+ 201 lb	+ 192 lb	+ 209 lb	+ 245 lb	+ 245 lb	+ 291 lb	+ 340 lb	+ 403 lb
SK 9407 SK 9507	+ 29 lb + 192 lb	+ 29 lb + 192 lb	+ 373 lb + 262 lb	+ 201 lb	+ 201 lb	+ 192 lb	+ 209 lb	+ 245 lb	+ 245 lb	+ 291 lb	+ 340 lb	+ 403 lb
SK 10407 SK 10507	+ 29 lb + 192 lb	+ 29 lb + 192 lb	+ 373 lb + 262 lb	+ 201 lb	+ 201 lb	+ 192 lb	+ 209 lb	+ 245 lb	+ 245 lb	+ 291 lb	+ 340 lb	+ 403 lb
SK 11407 SK 11507	---	---	---	+ 375 lb + 317 lb	+ 375 lb + 317 lb	+ 366 lb + 309 lb	+ 386 lb + 328 lb	+ 419 lb + 362 lb	+ 419 lb + 362 lb	+ 465 lb + 408 lb	+ 514 lb + 456 lb	+ 580 lb + 522 lb
SK 12407 SK 12507	---	---	---	+ 489 lb + 388 lb	+ 489 lb + 388 lb	+ 481 lb + 379 lb	+ 498 lb + 399 lb	+ 534 lb + 432 lb	+ 534 lb + 432 lb	+ 580 lb + 478 lb	+ 628 lb + 527 lb	+ 692 lb + 593 lb
SK 13407 SK 13507	---	---	---	+ 589 lb + 476 lb	+ 589 lb + 476 lb	+ 578 lb + 467 lb	+ 597 lb + 487 lb	+ 633 lb + 520 lb	+ 633 lb + 520 lb	+ 679 lb + 567 lb	+ 728 lb + 615 lb	+ 791 lb + 679 lb
SK 15407 SK 15507	---	---	---	+ 683 lb + 529 lb	+ 683 lb + 529 lb	+ 675 lb + 520 lb	+ 694 lb + 538 lb	+ 728 lb + 573 lb	+ 728 lb + 573 lb	+ 774 lb + 619 lb	+ 822 lb + 668 lb	+ 886 lb + 732 lb

CAUTIONS

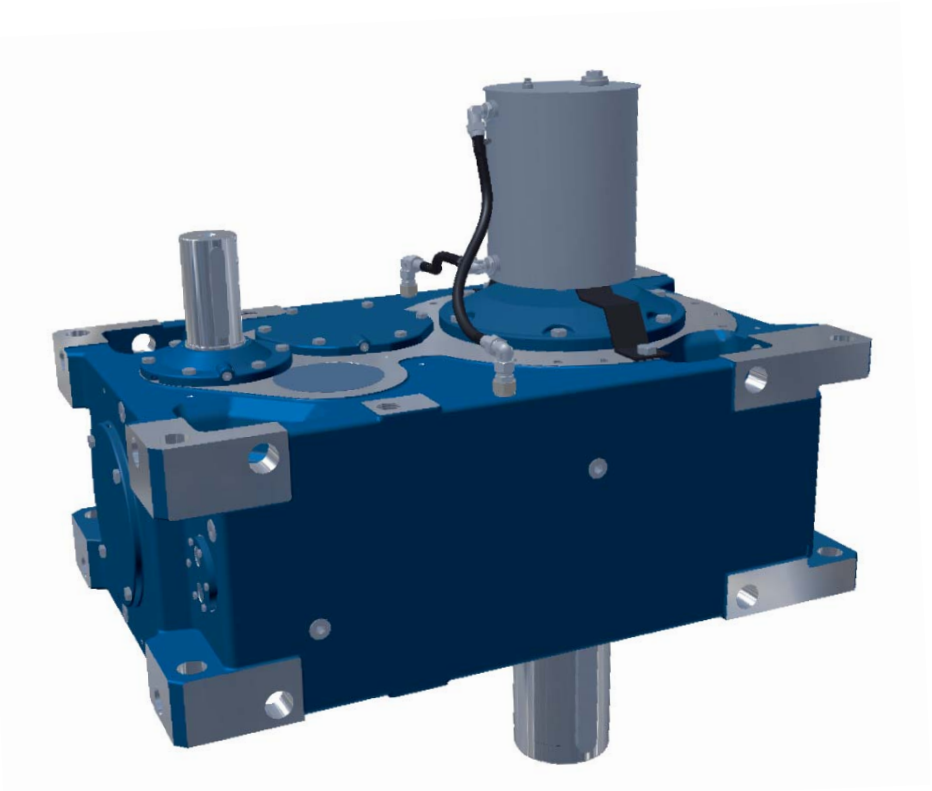
The weight data is based on gear units without oil and add-ons. The actual weights can be supplied with the gear unit documentation.

Notes

MAXXDRIVE™ Parallel Mechanical Selection

Selection

- SK..207 Parallel Mechanical/Thermal Ratings
- SK..307 Parallel Mechanical/Thermal Ratings

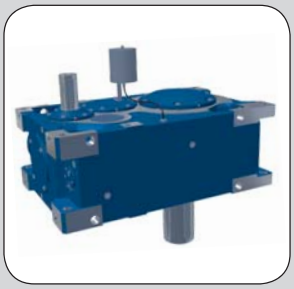


NORD DRIVESYSTEMS

www.nord.com

UNICASE™

Nom. Ratio i_N	Nominal Input Speed n_{1N} [rpm]	Nominal Output Speed n_{2N} [rpm]	SK 11.. Rated Power P_N [hp]	
5.6	1200	214	1081	
	1800	321	1621	
	Exact Ratio i_{ges}		5.77	
	Max Torque T_{2max} [lb-in·1000]		327.4	



Nom. Ratio i_N	SK 11207 Thermal Rating [hp]					
	--- [P_{T0}]		Fan [P_{tF}]		CC [P_{tC}]	
	20° C	40° C	20° C	40° C	20° C	40° C
5.6	426	302	+204	+131	+337	+337

NORD DRIVESYSTEMS

RATINGS

Structure of the Mechanical Ratings Tables

Nominal Input Speed
The actual motor speeds depend on the size of the motor, and may differ

Nominal Output Speed
The Nominal Input Speed divided by the Nominal Ratio

Type of Gear Unit

Nom. Ratio i_N	Nominal Input Speed n_{1N} [rpm]	Nominal Output Speed n_{2N} [rpm]	SK 7307 Rated Power P_N [hp]	SK 7307 Inertia J_{red} [lb-ft²]	SK 8307 Rated Power P_N [hp]	SK 8307 Inertia J_{red} [lb-ft²]	SK 9307 Rated Power P_N [hp]	SK 9307 Inertia J_{red} [lb-ft²]	SK 10307 Rated Power P_N [hp]	SK 10307 Inertia J_{red} [lb-ft²]	SK 11307 Rated Power P_N [hp]	SK 11307 Inertia J_{red} [lb-ft²]	SK 12307 Rated Power P_N [hp]	SK 12307 Inertia J_{red} [lb-ft²]	SK 13307 Rated Power P_N [hp]	SK 13307 Inertia J_{red} [lb-ft²]	SK 15307 Rated Power P_N [hp]	SK 15307 Inertia J_{red} [lb-ft²]
112	1200	11	36	0.475	46	0.475	61	1.424	78	1.661	110	0.949	151	1.661	211	2.848	366	6.170
	1800	16	54		70		91		117		165		227		317		549	
	Exact Ratio i_{ges}		113.97		107.23		111.9		107.71		114.28		112.91		113.15		111.48	
	"Max Torque T_{2max} [lb-in • 1000]"		214		261		358		443		662		897		1260		2140	

Nominal Ratio
Sized according to Standard Series

Exact Ratio

Nominal Torque
with Service Factor (f_B) = 1.0

Nominal Output
with Service Factor (f_B) = 1.0
and Nominal Input Speed
n_{1N} = 1200 rpm or
n_{1N} = 1800 rpm

Moment of Inertia
Relative to the Input Shaft

Structure of the Thermal Ratings Tables [1) 2)] (see explanation on following page)

Type of Gear Unit

Nom. Ratio i_N	SK 7307 Thermal Rating [hp] --- [$P_{tO.20}$] 20° C	SK 7307 FAN [$P_{tF.20}$] 20° C	SK 7307 CC [$P_{tC.20}$] 20° C	SK 8307 --- [P_{TO}] 20° C	SK 8307 FAN [P_{tF}] 20° C	SK 8307 CC [P_{tC}] 20° C	SK 9307 --- [P_{TO}] 20° C	SK 9307 FAN [P_{tF}] 20° C	SK 9307 CC [P_{tC}] 20° C	SK 10307 --- [P_{TO}] 20° C	SK 10307 FAN [P_{tF}] 20° C	SK 10307 CC [P_{tC}] 20° C	SK 11307 --- [P_{TO}] 20° C	SK 11307 FAN [P_{tF}] 20° C	SK 11307 CC [P_{tC}] 20° C	SK 12307 --- [P_{TO}] 20° C	SK 12307 FAN [P_{tF}] 20° C	SK 12307 CC [P_{tC}] 20° C	SK 13307 --- [P_{TO}] 20° C	SK 13307 FAN [P_{tF}] 20° C	SK 13307 CC [P_{tC}] 20° C	SK 15307 --- [P_{TO}] 20° C	SK 15307 FAN [P_{tF}] 20° C	SK 15307 CC [P_{tC}] 20° C
45	71	+181	+45	121	+203	+45	157	+264	+87	178	+299	+87	206	+346	+225	264	+444	+313	328	+551	+401	466	+783	+401

Nominal Ratio
Sized according to Standard Series

Cooling Type
--- : No Additional Cooling
Fan : Built in Fan Cooling
CC : Integrated Water Cooling

Thermal Power Limit [1) 2)]
Without any additional thermal cooling at Ambient Temp.

Additional Thermal Power Limit [1) 2)]
With Built in Fan at Ambient Temperature
with nominal speed = 1800 rpm

Additional Thermal Power Limit
With Integrated Water Cooling at Ambient Temperature

Structure of the Ratings Tables

Structure of the Gear Motor Ratings Tables

Nominal Motor (Input) Power
Output Speed at Nominal Motor Speed
Output Torque For the Stated Service Factor
Service Factor
Total Gear Ratio
Type of Maxxdrive Unit
Weight of unit without Motor or IEC Flange
Dimension Drawing Page Number

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in*1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS ---	Model Type	Weight [lb]	Dim. Page
40	11	34.7	1.8	114.28	79	38	SK 11307 - 364T	1460	180
	11	34.7	1.9	104.39	79	38			
	13	29.4	2.1	89.30	79	38			

Optional Cooling System Related To Standard Ambient Conditions[1)]
--- : No Additional Cooling System
FAN : Built In Fan (page 56)
CC : Integrated Water Cooling (page 57)
A - H : Size of External Cooling Units (page 59)
FAN* : High powered fan (page 56)
It has a greater thermal power limit than the integrated water cooling
/ : Forward slash stands for "or"

Thermal Power Limit for Standard Ambient Conditions[1)]

[1)] Standard ambient conditions

Ambient temperature:	68°F (20°C)
Air circulation at installation location	large hall with good air circulation (v_L = 4.10 ft/s or 1.25 m/s)
Installation:	Foundation steel sub-construction
Installation altitude:	≤ 3280ft (1000m) above sea level
Installation position	Horizontal installation (M1 for 2-stage or M3 for 3 stage)
Type of lubrication:	Oil-splash lubrication
Cooling water inlet temperature	68°F (20° C)

[2)] Intermediate figures from 0° C to 50° C can be interpolated.

SK..207 Parallel Mechanical Ratings

DRIVESYSTEMS

Nom. Ratio	Nominal Input Speed	Nominal Output Speed	SK 7207		SK 8207		SK 9207		SK 10207		SK 11207		SK 12207		SK 13207		SK 15207	
			Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia
i_N	n_{1N} [rpm]	n_{2N} [rpm]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]
5.6	1200	214	-	-	-	-	-	-	-	-	1314	27.266	1933	48.505	2647	86.236	4550	185.785
	1800	321	-		-		-		-		1971		2900		3971		6825	
	Exact Ratio i_{ges}		-		-		-		-		5.77		5.64		5.85		5.54	
	"Max Torque T_{2max} [lb-in • 1000]"		-		-		-		-		398		573		813		1320	
6.3	1200	190	-	-	-	-	-	-	-	-	1314	21.784	1926	38.752	2639	68.913	4553	148.457
	1800	286	-		-		-		-		1971		2889		3958		6829	
	Exact Ratio i_{ges}		-		-		-		-		6.31		6.16		6.38		6.04	
	"Max Torque T_{2max} [lb-in • 1000]"		-		-		-		-		435		623		884		1440	
7.1	1200	169	377	4.034	-	-	677	10.441	-	-	1162	20.052	1639	35.643	2284	63.384	3907	136.568
	1800	254	565		-		1016		-		1744		2458		3427		5861	
	Exact Ratio i_{ges}		7.16		-		7.24		-		7.19		7.27		7.31		7.15	
	"Max Torque T_{2max} [lb-in • 1000]"		142		-		258		-		439		626		877		1470	
8	1200	150	377	4.034	436	4.271	656	9.729	695	10.916	1163	19.364	1634	34.409	2276	61.201	3893	131.870
	1800	225	565		654		984		1042		1744		2451		3414		5839	
	Exact Ratio i_{ges}		7.87		8.15		7.96		8.15		7.87		7.93		7.98		7.80	
	"Max Torque T_{2max} [lb-in • 1000]"		156		187		274		297		481		681		954		1590	
9	1200	133	334	2.848	436	4.271	572	7.119	672	10.441	1011	15.496	1396	27.551	1929	49.003	3336	105.553
	1800	200	500		654		858		1008		1517		2094		2893		5004	
	Exact Ratio i_{ges}		8.99		8.66		9.10		8.93		9.05		9.10		9.26		8.96	
	"Max Torque T_{2max} [lb-in • 1000]"		158		198		273		315		481		667		938		1570	
10	1200	120	334	2.848	378	3.085	554	6.882	585	7.594	981	15.069	1390	26.792	1918	47.627	3324	102.634
	1800	180	500		567		832		878		1472		2085		2878		4985	
	Exact Ratio i_{ges}		9.89		10.25		10.00		10.25		9.91		9.93		10.11		9.78	
	"Max Torque T_{2max} [lb-in • 1000]"		173		204		291		315		511		725		1020		1710	
11.2	1200	107	289	2.136	379	3.085	485	5.221	568	7.119	843	10.987	1177	19.530	1645	34.741	2765	74.869
	1800	161	433		569		728		852		1265		1765		2468		4147	
	Exact Ratio i_{ges}		11.26		10.89		11.39		11.22		11.61		11.60		11.37		11.44	
	"Max Torque T_{2max} [lb-in • 1000]"		171		217		290		335		514		717		982		1660	
12.5	1200	96	289	1.898	320	2.136	470	5.221	496	5.695	814	10.702	1151	19.032	1639	33.839	2754	72.923
	1800	144	433		481		705		745		1221		1727		2458		4132	
	Exact Ratio i_{ges}		12.38		12.83		12.52		12.83		12.71		12.66		12.40		12.48	
	"Max Torque T_{2max} [lb-in • 1000]"		188		216		309		335		543		766		1070		1810	

SK..207 Parallel Thermal Ratings

Nom. Ratio	SK 7207			SK 8207			SK 9207			SK 10207			SK 11207			SK 12207			SK 13207			SK 15207		
	Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]		
i_N	--- [$P_{t0.20}$] 20° C	FAN [$P_{tF.20}$] 20° C	CC [$P_{tC.20}$] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C
5.6	-	-	-	-	-	-	-	-	-	-	-	-	498	+837	+360	637	+1070	+501	793	+1332	+642	1187	+1994	+642
6.3	-	-	-	-	-	-	-	-	-	-	-	-	427	+717	+360	546	+917	+501	732	+1230	+642	1005	+1688	+642
7.1	250	+420	+71	-	-	-	362	+608	+139	-	-	-	460	+773	+360	588	+988	+501	793	+1332	+642	1088	+1828	+642
8	216	+363	+71	260	+437	+71	314	+528	+139	382	+642	+139	427	+717	+360	546	+917	+501	732	+1230	+642	1005	+1688	+642
9	216	+363	+71	228	+383	+71	314	+528	+139	334	+561	+139	399	+670	+360	546	+917	+501	680	+1142	+642	1088	+1828	+642
10	203	+341	+71	243	+408	+71	294	+494	+139	356	+598	+139	374	+628	+360	478	+803	+501	635	+1067	+642	933	+1567	+642
11.2	216	+363	+71	228	+383	+71	314	+528	+139	334	+561	+139	374	+628	+360	478	+803	+501	635	+1067	+642	933	+1567	+642
12.5	191	+321	+71	243	+408	+71	277	+465	+139	356	+598	+139	352	+591	+360	450	+756	+501	595	+1000	+642	871	+1463	+642

20°C = 68°F

Nominal speed for all FAN ratings = 1800rpm

SK..207 Parallel Mechanical Ratings

NORD DRIVESYSTEMS

Nom. Ratio	Nominal Input Speed	Nominal Output Speed	SK 7207		SK 8207		SK 9207		SK 10207		SK 11207		SK 12207		SK 13207		SK 15207	
			Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia
i_N	n_{1N}	n_{2N}	P_N	J_{red}	P_N	J_{red}	P_N	J_{red}	P_N	J_{red}	P_N	J_{red}	P_N	J_{red}	P_N	J_{red}	P_N	J_{red}
	[rpm]	[rpm]	[hp]	[lb-ft²]	[hp]	[lb-ft²]	[hp]	[lb-ft²]	[hp]	[lb-ft²]	[hp]	[lb-ft²]	[hp]	[lb-ft²]	[hp]	[lb-ft²]	[hp]	[lb-ft²]
14	1200	86	243	1.424	320	2.136	410	3.797	481	5.221	717	6.526	1026	11.628	1447	20.669	2472	44.542
	1800	129	365		481		616		721		1075		1539		2171		3709	
	Exact Ratio i_{ges}		14.20		13.63		14.37		14.05		14.46		14.39		14.24		14.19	
	"Max Torque T_{2max} [lb-in • 1000]"		181		229		310		355		544		775		1080		1840	
16	1200	75	244	1.424	270	1.661	398	3.560	420	3.797	693	6.360	1022	11.296	1401	20.100	2463	43.284
	1800	113	366		404		597		631		1039		1534		2101		3695	
	Exact Ratio i_{ges}		15.62		16.19		15.79		16.19		15.83		15.69		15.53		15.48	
	"Max Torque T_{2max} [lb-in • 1000]"		200		229		330		358		576		843		1140		2000	
18	1200	67	207	0.949	270	1.424	346	2.848	407	3.797	599	5.458	831	9.682	1159	17.228	2011	37.114
	1800	100	310		406		520		610		899		1246		1738		3016	
	Exact Ratio i_{ges}		17.94		17.2		17.14		17.72		18.5		18.34		18.38		18.11	
	"Max Torque T_{2max} [lb-in • 1000]"		195		244		330		379		582		800		1120		1910	
20	1200	60	207	0.949	227	1.187	336	2.610	354	2.848	579	5.292	827	9.421	1155	16.754	2003	36.118
	1800	90	310		340		505		532		869		1240		1732		3005	
	Exact Ratio i_{ges}		19.72		20.44		19.94		20.44		20.25		20.01		20.05		19.76	
	"Max Torque T_{2max} [lb-in • 1000]"		214		243		352		381		616		869		1220		2080	
22.4	1200	54	170	0.712	227	1.187	288	1.898	344	2.848	-	-	-	-	-	-	-	-
	1800	80	255		341		433		516		-		-		-		-	
	Exact Ratio i_{ges}		23.05		21.72		23.31		22.38		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		206		259		353		404		-		-		-		-	
25	1200	48	168	0.712	187	0.712	275	1.898	287	2.136	-	-	-	-	-	-	-	-
	1800	72	252		281		413		431		-		-		-		-	
	Exact Ratio i_{ges}		25.34		26.26		25.63		26.26		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		224		258		371		397		-		-		-		-	
28	1200	43	-	-	184	0.712	-	-	284	1.898	-	-	-	-	-	-	-	-
	1800	64	-		276		-		426		-		-		-		-	
	Exact Ratio i_{ges}		-		27.9		-		28.76		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		-		270		-		429		-		-		-		-	

DRIVESYSTEMS

SK..207 Parallel Thermal Ratings

THERMAL

Nom. Ratio	SK 7207			SK 8207			SK 9207			SK 10207			SK 11207			SK 12207			SK 13207			SK 15207		
	Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]		
i_N	--- [$P_{tO.20}$] 20° C	FAN [$P_{tF.20}$] 20° C	CC [$P_{tC.20}$] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C
14	191	+321	+71	214	+360	+71	277	+465	+139	314	+528	+139	332	+558	+360	478	+803	+501	560	+941	+642	816	+1371	+642
16	180	+302	+71	214	+360	+71	262	+440	+139	314	+528	+139	315	+529	+360	425	+714	+501	529	+889	+642	768	+1290	+642
18	180	+302	+71	202	+339	+71	262	+440	+139	297	+499	+139	315	+529	+360	402	+675	+501	529	+889	+642	768	+1290	+642
20	162	+272	+71	202	+339	+71	235	+395	+139	297	+499	+139	285	+479	+360	364	+612	+501	476	+800	+642	687	+1154	+642
22.4	155	+260	+71	182	+306	+71	224	+376	+139	267	+449	+139	-	-	-	-	-	-	-	-	-	-	-	-
25	148	+249	+71	173	+291	+71	214	+360	+139	254	+427	+139	-	-	-	-	-	-	-	-	-	-	-	-
28	-	-	-	158	+265	+71	-	-	-	232	+390	+139	-	-	-	-	-	-	-	-	-	-	-	-

20°C = 68°F

Nominal speed for all FAN ratings = 1800rpm

SK..307 Parallel Mechanical Ratings

NORD DRIVESYSTEMS

Nom. Ratio	Nominal Input Speed	Nominal Output Speed	SK 7307		SK 8307		SK 9307		SK 10307		SK 11307		SK 12307		SK 13307		SK 15307	
			Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia
i_N	n_{1N} [rpm]	n_{2N} [rpm]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]
22.4	1200	54	-	-	-	-	-	-	-	-	487	7.119	743	12.577	939	22.069	1575	47.698
	1800	80	-		-		-		-		730		1115		1408		2363	
	Exact Ratio i_{ges}		-		-		-		-		22.32		22.13		21.90		21.84	
	"Max Torque T_{2max} [lb-in • 1000]"		-		-		-		-		571		864		1080		1810	
25	1200	48	-	-	-	-	-	-	-	-	443	5.933	608	10.441	848	18.510	1471	39.867
	1800	72	-		-		-		-		665		912		1272		2207	
	Exact Ratio i_{ges}		-		-		-		-		26.09		25.87		25.92		25.54	
	"Max Torque T_{2max} [lb-in • 1000]"		-		-		-		-		607		826		1150		1970	
28	1200	43	121	1.424	-	-	236	2.373	-	-	442	5.695	605	10.204	845	18.272	1467	39.392
	1800	64	182		-		355		-		663		907		1267		2200	
	Exact Ratio i_{ges}		27.89		-		28.44		-		28.56		28.22		28.28		27.86	
	"Max Torque T_{2max} [lb-in • 1000]"		178		-		353		-		663		897		1260		2150	
31.5	1200	38	121	1.187	134	1.424	224	3.322	258	2.373	350	3.085	479	5.221	666	9.492	1149	20.408
	1800	57	182		201		336		387		525		718		1000		1724	
	Exact Ratio i_{ges}		30.67		31.79		31.26		32.04		31.90		31.82		31.91		31.49	
	"Max Torque T_{2max} [lb-in • 1000]"		196		224		368		434		587		800		1120		1900	
35.5	1200	34	113	1.187	134	1.424	182	3.085	246	3.322	349	2.848	477	5.221	664	9.255	1146	20.171
	1800	51	169		201		273		370		524		716		996		1719	
	Exact Ratio i_{ges}		36.21		33.77		36.98		35.08		34.93		34.71		34.81		34.35	
	"Max Torque T_{2max} [lb-in • 1000]"		214		238		353		454		641		870		1210		2070	
40	1200	30	107	1.187	127	1.187	172	2.136	198	3.085	283	2.610	387	4.509	530	7.831	935	16.849
	1800	45	161		190		257		297		425		581		795		1403	
	Exact Ratio i_{ges}		39.81		41.26		40.65		41.66		40.83		40.58		41.20		40.18	
	"Max Torque T_{2max} [lb-in • 1000]"		224		274		366		434		607		826		1150		1970	
45	1200	27	88	0.949	117	1.187	150	2.848	188	2.373	282	2.373	386	4.271	531	7.831	932	16.849
	1800	40	131		176		226		283		424		578		796		1397	
	Exact Ratio i_{ges}		44.60		43.84		44.70		45.62		44.70		44.26		44.94		43.83	
	"Max Torque T_{2max} [lb-in • 1000]"		205		270		353		451		663		897		1250		2140	

DRIVESYSTEMS

SK..307 Parallel Thermal Ratings

THERMAL

Nom. Ratio	SK 7307			SK 8307			SK 9307			SK 10307			SK 11307			SK 12307			SK 13307			SK 15307		
	Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]		
i_N	---	FAN	CC	---	FAN	CC	---	FAN	CC	---	FAN	CC	---	FAN	CC	---	FAN	CC	---	FAN	CC	---	FAN	CC
	[$P_{tO.20}$]	[$P_{tF.20}$]	[$P_{tC.20}$]	[P_{T0}]	[P_{tF}]	[P_{tC}]	[P_{T0}]	[P_{tF}]	[P_{tC}]	[P_{T0}]	[P_{tF}]	[P_{tC}]	[P_{T0}]	[P_{tF}]	[P_{tC}]	[P_{T0}]	[P_{tF}]	[P_{tC}]	[P_{T0}]	[P_{tF}]	[P_{tC}]	[P_{T0}]	[P_{tF}]	[P_{tC}]
	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C
22.4	-	-	-	-	-	-	-	-	-	-	-	-	239	+402	+225	306	+514	+313	397	+667	+401	622	+1045	+401
25	-	-	-	-	-	-	-	-	-	-	-	-	230	+386	+225	294	+494	+313	381	+640	+401	568	+954	+401
28	65	+210	+45	-	-	-	181	+304	+87	-	-	-	214	+360	+225	273	+459	+313	353	+593	+401	522	+877	+401
31.5	64	+202	+45	140	+235	+45	174	+292	+87	206	+346	+87	222	+373	+225	306	+514	+313	366	+615	+401	568	+954	+401
35.5	66	+195	+45	130	+218	+45	168	+282	+87	191	+321	+87	206	+346	+225	283	+475	+313	353	+593	+401	522	+877	+401
40	68	+181	+45	130	+218	+45	157	+264	+87	191	+321	+87	206	+346	+225	283	+475	+313	353	+593	+401	502	+843	+401
45	71	+181	+45	121	+203	+45	157	+264	+87	178	+299	+87	206	+346	+225	264	+444	+313	328	+551	+401	466	+783	+401

20°C = 68°F

Nominal speed for all FAN ratings = 1800rpm

SK..307 Parallel Mechanical Ratings

NORD DRIVESYSTEMS

Nom. Ratio	Nominal Input Speed	Nominal Output Speed	SK 7307		SK 8307		SK 9307		SK 10307		SK 11307		SK 12307		SK 13307		SK 15307	
			Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia
i_N	n_{1N} [rpm]	n_{2N} [rpm]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]
50	1200	24	87	0.949	91	0.949	141	2.373	153	2.848	222	1.661	305	2.848	424	4.983	724	10.679
	1800	36	130		136		212		229		333		457		636		1086	
	Exact Ratio i_{ges}		49.04		50.82		49.13		50.35		50.25		50.01		50.17		50.02	
	"Max Torque T_{2max} [lb-in • 1000]"		223		242		365		404		587		800		1120		1900	
56	1200	21	74	0.949	90	0.949	121	1.424	152	2.373	221	1.661	304	2.848	422	4.746	721	10.441
	1800	32	110		135		182		229		332		455		634		1082	
	Exact Ratio i_{ges}		55.39		53.99		55.56		55.14		55.01		54.55		54.73		54.56	
	"Max Torque T_{2max} [lb-in • 1000]"		214		256		353		442		640		870		1210		2070	
63	1200	19	70	0.949	82	0.949	113	2.373	132	1.424	180	1.424	247	2.373	339	4.271	589	9.255
	1800	29	105		123		170		198		270		370		509		883	
	Exact Ratio i_{ges}		60.91		63.12		61.07		62.59		64.31		63.77		64.78		63.82	
	"Max Torque T_{2max} [lb-in • 1000]"		224		272		363		434		607		826		1150		1970	
71	1200	17	57	0.712	77	0.949	93	2.610	124	2.373	179	1.424	246	2.373	338	4.271	587	9.255
	1800	25	85		115		140		186		269		368		507		880	
	Exact Ratio i_{ges}		71.91		67.07		72.25		68.54		70.40		69.56		70.66		69.62	
	"Max Torque T_{2max} [lb-in • 1000]"		214		270		353		447		663		897		1250		2150	
80	1200	15	54	0.712	63	0.712	87	1.898	101	2.610	134	0.949	184	1.898	256	3.085	441	6.882
	1800	23	81		94		130		152		201		276		384		661	
	Exact Ratio i_{ges}		79.07		81.94		79.41		81.38		81.58		81.18		80.34		80.10	
	"Max Torque T_{2max} [lb-in • 1000]"		224		271		361		433		575		786		1080		1850	
90	1200	13	45	0.475	59	0.712	77	2.136	95	1.898	123	0.949	184	1.898	256	3.085	441	6.882
	1800	20	68		89		115		142		184		276		384		661	
	Exact Ratio i_{ges}		88.56		87.06		87.32		89.12		89.30		88.55		87.64		87.37	
	"Max Torque T_{2max} [lb-in • 1000]"		210		270		353		444		575		856		1180		2020	
100	1200	12	44	0.475	46	0.475	71	1.661	84	2.136	111	0.949	152	1.661	212	2.848	368	6.407
	1800	18	66		70		107		126		166		228		318		552	
	Exact Ratio i_{ges}		97.38		100.92		95.98		98.36		104.39		103.51		103.73		102.20	
	"Max Torque T_{2max} [lb-in • 1000]"		224		246		359		434		608		826		1150		1970	

SK..307 Parallel Thermal Ratings

Nom. Ratio	SK 7307			SK 8307			SK 9307			SK 10307			SK 11307			SK 12307			SK 13307			SK 15307		
	Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]		
i_N	--- $[P_{tO.20}]$ 20° C	FAN $[P_{tF.20}]$ 20° C	CC $[P_{tC.20}]$ 20° C	--- $[P_{T0}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{T0}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{T0}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{T0}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{T0}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{T0}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{T0}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C
50	83	+176	+45	121	+203	+45	152	+255	+87	178	+299	+87	193	+324	+225	273	+459	+313	328	+551	+401	484	+813	+401
56	88	+188	+45	117	+197	+45	162	+272	+87	172	+289	+87	181	+304	+225	247	+415	+313	317	+533	+401	450	+756	+401
63	88	+181	+45	121	+203	+45	157	+264	+87	178	+299	+87	187	+314	+225	247	+415	+313	307	+516	+401	435	+731	+401
71	93	+170	+45	114	+192	+45	147	+247	+87	167	+281	+87	176	+296	+225	225	+378	+313	289	+486	+401	408	+685	+401
80	90	+160	+45	114	+192	+45	138	+232	+87	167	+281	+87	171	+287	+225	218	+366	+313	289	+486	+401	396	+665	+401
90	93	+170	+45	107	+180	+45	147	+247	+87	157	+264	+87	162	+272	+225	207	+348	+313	280	+470	+401	373	+627	+401
100	101	+156	+45	107	+180	+45	135	+227	+87	157	+264	+87	157	+264	+225	207	+348	+313	257	+432	+401	384	+645	+401

20°C = 68°F

Nominal speed for all FAN ratings = 1800rpm

SK..307 Parallel Mechanical Ratings

NORD DRIVESYSTEMS

Nom. Ratio	Nominal Input Speed	Nominal Output Speed	SK 7307		SK 8307		SK 9307		SK 10307		SK 11307		SK 12307		SK 13307		SK 15307	
			Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia
i_N	n_{1N} [rpm]	n_{2N} [rpm]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]
112	1200	11	36	0.475	46	0.475	61	1.424	78	1.661	110	0.949	151	1.661	211	2.848	366	6.170
	1800	16	54		70		91		117		165		227		317		549	
	Exact Ratio i_{ges}		113.97		107.23		111.9		107.71		114.28		112.91		113.15		111.48	
	"Max Torque T_{2max} [lb-in • 1000]"		214		261		358		443		662		897		1260		2140	
125	1200	10	34	0.475	39	0.475	55	1.898	67	1.424	-	-	-	-	-	-	-	-
	1800	14	51		59		82		100		-		-		-		-	
	Exact Ratio i_{ges}		125.31		129.87		123.04		125.57		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		224		268		353		442		-		-		-		-	
140	1200	9	29	0.475	37	0.475	50	1.898	60	1.898	-	-	-	-	-	-	-	-
	1800	13	43		56		76		89		-		-		-		-	
	Exact Ratio i_{ges}		140.37		137.98		135.24		138.60		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		212		270		358		434		-		-		-		-	
160	1200	8	28	0.475	30	0.475	43	1.424	55	1.898	-	-	-	-	-	-	-	-
	1800	11	41		45		64		83		-		-		-		-	
	Exact Ratio i_{ges}		154.34		159.95		157.18		151.77		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		224		250		353		441		-		-		-		-	
180	1200	7	20	0.712	30	0.475	39	1.424	47	1.424	-	-	-	-	-	-	-	-
	1800	10	30		45		59		70		-		-		-		-	
	Exact Ratio i_{ges}		177.56		169.95		172.76		177.05		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		185		266		357		434		-		-		-		-	
200	1200	6	20	0.712	20	0.712	21	2.136	43	1.424	-	-	-	-	-	-	-	-
	1800	9	29		30		32		65		-		-		-		-	
	Exact Ratio i_{ges}		195.24		202.34		198.68		193.87		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		201		212		223		439		-		-		-		-	
224	1200	5	18	0.475	20	0.712	21	2.136	19	2.136	-	-	-	-	-	-	-	-
	1800	8	27		30		32		28		-		-		-		-	
	Exact Ratio i_{ges}		230.49		214.99		218.38		223.8		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		214		224		243		221		-		-		-		-	

SK..307 Parallel Thermal Ratings

THERMAL

Nom. Ratio	SK 7307			SK 8307			SK 9307			SK 10307			SK 11307			SK 12307			SK 13307			SK 15307		
	Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]		
i_N	--- [$P_{tO.20}$] 20° C	FAN [$P_{tF.20}$] 20° C	CC [$P_{tC.20}$] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C
112	95	+151	+45	101	+170	+45	131	+220	+87	148	+249	+87	153	+257	+225	196	+329	+313	244	+410	+401	353	+593	+401
125	101	+156	+45	101	+170	+45	135	+227	+87	148	+249	+87	-	-	-	-	-	-	-	-	-	-	-	-
140	108	+148	+45	98	+165	+45	127	+213	+87	144	+242	+87	-	-	-	-	-	-	-	-	-	-	-	-
160	112	+148	+45	98	+165	+45	127	+213	+87	144	+242	+87	-	-	-	-	-	-	-	-	-	-	-	-
180	105	+139	+45	98	+165	+45	121	+203	+87	144	+242	+87	-	-	-	-	-	-	-	-	-	-	-	-
200	108	+119	+45	91	+153	+45	102	+171	+87	134	+225	+87	-	-	-	-	-	-	-	-	-	-	-	-
224	108	+114	+45	79	+133	+45	98	+165	+87	116	+195	+87	-	-	-	-	-	-	-	-	-	-	-	-

20°C = 68°F

Nominal speed for all FAN ratings = 1800rpm

SK..307 Parallel Mechanical Ratings

DRIVESYSTEMS

Nom. Ratio	Nominal Input Speed	Nominal Output Speed	SK 7307		SK 8307		SK 9307		SK 10307		SK 11307		SK 12307		SK 13307		SK 15307	
			Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia
i_N	n_{1N} [rpm]	n_{2N} [rpm]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]
250	1200	5	17	0.475	19	0.475	21	1.661	19	2.136	-	-	-	-	-	-	-	-
	1800	7	25		29		31		28		-		-		-		-	
	Exact Ratio i_{ges}		253.44		262.65		258.35		245.07		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		224		266		281		243		-		-		-		-	
280	1200	4	14	0.475	18	0.475	20	1.661	19	1.661	-	-	-	-	-	-	-	-
	1800	6	22		28		31		28		-		-		-		-	
	Exact Ratio i_{ges}		283.89		279.07		283.96		291.01		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		214		270		304		283		-		-		-		-	
315	1200	4	14	0.475	16	0.475	20	1.424	18	1.661	-	-	-	-	-	-	-	-
	1800	6	20		23		30		27		-		-		-		-	
	Exact Ratio i_{ges}		312.15		323.50		312.23		318.66		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		224		266		330		306		-		-		-		-	
355	1200	3	-	-	15	0.475	20	1.424	18	1.424	-	-	-	-	-	-	-	-
	1800	5	-		22		29		27		-		-		-		-	
	Exact Ratio i_{ges}		-		343.72		343.19		351.71		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		-		270		354		335		-		-		-		-	
400	1200	3	-	-	-	-	-	-	18	1.424	-	-	-	-	-	-	-	-
	1800	5	-		-		-		27		-		-		-		-	
	Exact Ratio i_{ges}		-		-		-		385.13		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		-		-		-		361		-		-		-		-	

SK..307 Parallel Thermal Ratings

Nom. Ratio	SK 7307			SK 8307			SK 9307			SK 10307			SK 11307			SK 12307			SK 13307			SK 15307		
	Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]		
i_N	--- $[P_{tO.20}]$ 20° C	FAN $[P_{tF.20}]$ 20° C	CC $[P_{tC.20}]$ 20° C	--- $[P_{T0}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{T0}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{T0}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{T0}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{T0}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{T0}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{T0}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C
250	116	+111	+45	74	+124	+45	96	+161	+87	109	+183	+87	-	-	-	-	-	-	-	-	-	-	-	-
280	120	+108	+45	74	+124	+45	92	+155	+87	109	+183	+87	-	-	-	-	-	-	-	-	-	-	-	-
315	125	+109	+45	70	+118	+45	94	+158	+87	103	+173	+87	-	-	-	-	-	-	-	-	-	-	-	-
355	-	-	-	73	+123	+45	91	+153	+87	107	+180	+87	-	-	-	-	-	-	-	-	-	-	-	-
400	-	-	-	-	-	-	-	-	-	101	+170	+87	-	-	-	-	-	-	-	-	-	-	-	-

20°C = 68°F

Nominal speed for all FAN ratings = 1800rpm

MAXXDRIVE™ Parallel Gearmotor Selection

Selection

- 1200 rpm Parallel Gearmotor Ratings 40hp - 900 hp
- 1800 rpm Parallel Gearmotor Ratings 50 hp - 900 hp

NORD DRIVESYSTEMS

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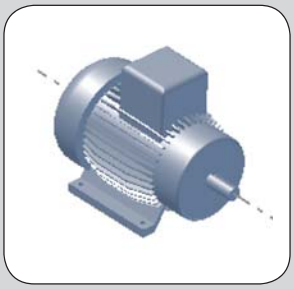
UNICASE™

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque M_2 [lb-in*1000]
40	11	34.7
	11	34.7
	13	29.4



5 hp - 10 hp Parallel Drives n_1 = 1200 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
5	4	75	2.9	283.89	64	---	SK 7307 - 215T	1301	138
	4	82.9	2.7	312.15	65	---			
	4	90	3.0	343.72	73	---	SK 8307 - 215T	1431	144
7.5	7	69.5	2.7	177.56	83	---	SK 7307 - 254T	1301	138
	6	77.5	2.6	195.24	71	---			
	5	90.9	2.4	230.49	68	---			
	5	101	2.2	253.44	66	---			
	4	113	1.9	283.89	64	---			
	4	124	1.8	312.15	65	---			
	6	80.1	2.7	202.34	91	---	SK 8307 - 254T	1431	144
	6	84.4	2.7	214.99	79	---			
	5	103	2.6	262.65	74	---			
	4	110	2.5	279.07	74	---			
	4	128	2.1	323.50	70	---			
	4	135	2.0	343.72	73	---			
	6	78.8	2.8	198.68	102	---	SK 9307 - 254T	2165	150
	6	86	2.8	218.38	98	---			
	5	103	2.7	258.35	96	---			
	4	113	2.7	283.96	92	---			
	4	124	2.7	312.23	94	---			
	4	135	2.6	343.19	91	---			
	5	87.5	2.5	223.80	116	---	SK 10307 - 254T	2383	156
	5	96.5	2.5	245.07	109	---			
	4	115	2.5	291.01	109	---			
	4	124	2.5	318.66	103	---			
	3	139	2.4	351.71	107	---			
	3	152	2.4	385.13	101	---			
10	9	74.2	2.9	140.37	88	---	SK 7307 - 256T	1301	138
	8	80.8	2.8	154.34	88	---			
	7	92.7	2.0	177.56	83	---			
	6	103	1.9	195.24	71	---			
	5	121	1.8	230.49	68	---			
	5	134	1.7	253.44	66	---			
	4	150	1.4	283.89	64	---			
	4	166	1.4	312.15	65	---			
	8	84	3.0	159.95	98	---	SK 8307 - 256T	1431	144
	7	88.8	3.0	169.95	98	---			
	6	107	2.0	202.34	91	---			
	6	113	2.0	214.99	79	---			
	5	137	1.9	262.65	74	---			
	4	147	1.8	279.07	74	---			
	4	170	1.6	323.50	70	---			
	4	180	1.5	343.72	73	---			

10 hp - 20 hp Parallel Drives n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
10	6	105	2.1	198.68	102	---	**SK 9307 - 256T**	2165	150
	6	115	2.1	218.38	98	---			
	5	137	2.1	258.35	96	---			
	4	150	2.0	283.96	92	---			
	4	166	2.0	312.23	94	---			
	4	180	2.0	343.19	91	---			
	5	117	1.9	223.80	116	---	**SK 10307 - 256T**	2383	156
	5	129	1.9	245.07	109	---			
	4	154	1.8	291.01	109	---			
	4	166	1.8	318.66	103	---			
	3	185	1.8	351.71	107	---			
	3	203	1.8	385.13	101	---			
15	12	78.8	2.8	97.38	93	---	**SK 7307 - 284T**	1301	138
	11	86	2.5	113.97	90	---			
	10	98.5	2.3	125.31	93	---			
	9	111	1.9	140.37	88	---			
	8	121	1.8	154.34	88	---			
	7	139	1.3	177.56	83	---			
	6	155	1.3	195.24	71	---			
	9	103	2.6	129.87	101	---	**SK 8307 - 284T**	1431	144
	9	109	2.5	137.98	98	---			
	8	126	2.0	159.95	98	---			
	7	133	2.0	169.95	98	---			
	6	160	1.3	202.34	91	---			
	6	169	1.3	214.99	79	---			
	8	124	2.8	157.18	127	---	**SK 9307 - 284T**	2165	150
	7	137	2.6	172.76	121	---			
	6	158	1.4	198.68	102	---			
	6	172	1.4	218.38	98	---			
	5	206	1.4	258.35	96	---			
	4	225	1.4	283.96	92	---			
	4	249	1.3	312.23	94	---			
	4	270	1.3	343.19	91	---			
	6	152	2.9	193.87	134	---	**SK 10307 - 284T**	2383	156
20	17	74.2	2.9	71.91	101	---	**SK 7307 - 286T**	1301	138
	15	84	2.7	79.07	95	---			
	14	90	2.3	88.56	101	---			
	12	105	2.1	97.38	93	---			
	11	115	1.9	113.97	90	---			
	10	131	1.7	125.31	93	---			
	9	148	1.4	140.37	88	---			
	8	162	1.4	154.34	88	---			

20 hp - 25 hp
Parallel Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

GEARMOTOR

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
20	14	90	3.0	87.06	107	---	**SK 8307 - 286T**	1431	144
	12	105	2.3	100.92	107	---			
	11	115	2.3	107.23	101	---			
	9	137	2.0	129.87	101	---			
	9	145	1.9	137.98	98	---			
	8	168	1.5	159.95	98	---			
	7	178	1.5	169.95	98	---			
	10	129	2.7	123.04	135	---	**SK 9307 - 286T**	2165	150
	9	142	2.5	135.24	127	---			
	8	166	2.1	157.18	127	---			
	7	183	2.0	172.76	121	---			
	9	145	3.0	138.60	144	---	**SK 10307 - 286T**	2383	156
	8	160	2.8	151.77	144	---			
	7	185	2.3	177.05	144	---			
	6	203	2.2	193.87	134	---			
25	22	71.6	3.0	55.39	112	---	**SK 7307 - 324T**	1301	138
	20	78.8	2.8	60.91	108	---			
	17	92.7	2.3	71.91	101	---			
	15	105	2.1	79.07	95	---			
	14	113	1.9	88.56	101	---			
	12	131	1.7	97.38	93	---			
	11	143	1.5	113.97	90	---			
	10	164	1.4	125.31	93	---			
	15	105	2.6	81.94	114	---	**SK 8307 - 324T**	1431	144
	14	113	2.4	87.06	107	---			
	12	131	1.9	100.92	107	---			
	11	143	1.8	107.23	101	---			
	9	171	1.6	129.87	101	---			
	9	181	1.5	137.98	98	---			
	13	121	3.0	95.98	135	---	**SK 9307 - 324T**	2165	150
	11	143	2.5	111.90	131	---			
	10	161	2.2	123.04	135	---			
	9	177	2.0	135.24	127	---			
	8	207	1.7	157.18	127	---			
	7	228	1.6	172.76	121	---			
	10	164	2.7	125.57	148	---	**SK 10307 - 324T**	2383	156
	9	181	2.4	138.60	144	---			
	8	199	2.2	151.77	144	---			
	7	232	1.9	177.05	144	---			
	6	254	1.7	193.87	134	---			

30 hp - 40 hp Parallel Drives n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
30	27	70	2.9	44.60	108	---	**SK 7307 - 326T**	1301	138
	24	78.8	2.8	49.04	105	---			
	22	86	2.5	55.39	112	---			
	20	94.5	2.4	60.91	108	---			
	17	111	1.9	71.91	101	---			
	15	126	1.8	79.07	95	---			
	14	135	1.6	88.56	101	---			
	12	158	1.4	97.38	93	---			
	19	99.5	2.7	63.12	121	---	**SK 8307 - 326T**	1431	144
	18	105	2.6	67.07	114	---			
	15	126	2.1	81.94	114	---			
	14	135	2.0	87.06	107	---			
	12	158	1.6	100.92	107	---			
	11	172	1.5	107.23	101	---			
	9	206	1.3	129.87	101	---			
	15	126	2.9	79.41	138	---	**SK 9307 - 326T**	2165	150
	14	135	2.6	87.32	147	---			
	13	145	2.5	95.98	135	---			
	11	172	2.1	111.90	131	---			
	10	193	1.8	123.04	135	---			
	9	212	1.7	135.24	127	---			
	8	249	1.4	157.18	127	---			
	7	274	1.3	172.76	121	---			
	12	158	2.8	98.36	157	---	**SK 10307 - 326T**	2383	156
	11	172	2.6	107.71	148	---			
	10	197	2.2	125.57	148	---			
	9	217	2.0	138.60	144	---			
	8	239	1.8	151.77	144	---			
	7	278	1.6	177.05	144	---			
	6	305	1.4	193.87	134	---			
40	33	76.4	2.8	36.21	116	---	**SK 7307 - 364T**	1301	138
	30	84	2.7	39.81	108	---			
	27	93.4	2.2	44.60	108	---			
	24	105	2.1	49.04	105	---			
	22	115	1.9	55.39	112	---			
	20	126	1.8	60.91	108	---			
	17	148	1.4	71.91	101	---			
	15	168	1.3	79.07	95	---			

40 hp - 50 hp
Parallel Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
40	27	93.4	2.9	43.84	121	---	**SK 8307 - 364T**	1431	144
	24	105	2.3	50.82	121	---			
	22	115	2.2	53.99	117	---			
	19	133	2.0	63.12	121	---			
	18	140	1.9	67.07	114	---			
	15	168	1.6	81.94	114	---			
	14	180	1.5	87.06	107	---			
	20	126	2.9	61.07	157	---	**SK 9307 - 364T**	2165	150
	17	148	2.4	72.25	147	---			
	15	168	2.1	79.41	138	---			
	14	180	2.0	87.32	147	---			
	13	194	1.9	95.98	135	---			
	11	229	1.6	111.90	131	---			
	10	257	1.4	123.04	135	---			
	15	168	2.6	81.38	167	---	**SK 10307 - 364T**	2383	156
	13	194	2.3	89.12	157	---			
	12	210	2.1	98.36	157	---			
	11	229	1.9	107.71	148	---			
	10	263	1.7	125.57	148	---			
	9	290	1.5	138.60	144	---			
	8	319	1.4	151.77	144	---			
	11	229	2.9	114.28	153	---	**SK 11307 - 364T**	3219	162
	11	229	2.7	104.39	157	---			
50	43	73.3	2.4	27.89	125	---	**SK 7307 - 365T**	1301	138
	39	80.8	2.4	30.67	120	---			
	33	95.5	2.2	36.21	116	---			
	30	105	2.1	39.81	108	---			
	27	117	1.8	44.60	108	---			
	24	131	1.7	49.04	105	---			
	22	143	1.5	55.39	112	---			
	20	158	1.4	60.91	108	---			
	38	82.9	2.7	31.79	140	---	**SK 8307 - 365T**	1431	144
	36	87.5	2.7	33.77	130	---			
	29	109	2.5	41.26	130	---			
	27	117	2.3	43.84	121	---			
	24	131	1.8	50.82	121	---			
	22	143	1.8	53.99	117	---			
	19	166	1.6	63.12	121	---			
	18	175	1.5	67.07	114	---			

50 hp - 60 hp Parallel Drives n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
50	24	131	2.8	49.13	152	---	**SK 9307 - 365T**	2165	150
	22	143	2.5	55.56	162	---			
	20	158	2.3	61.07	157	---			
	17	185	1.9	72.25	147	---			
	15	210	1.7	79.41	138	---			
	14	225	1.6	87.32	147	---			
	13	242	1.5	95.98	135	---			
	19	166	2.6	62.59	178	---	**SK 10307 - 365T**	2383	156
	18	175	2.6	68.54	167	---			
	15	210	2.1	81.38	167	---			
	13	242	1.8	89.12	157	---			
	12	263	1.7	98.36	157	---			
	11	287	1.5	107.71	148	---			
	10	328	1.3	125.57	148	---			
	15	210	2.7	81.58	171	---	**SK 11307 - 365T**	3219	162
	13	242	2.4	89.30	162	---			
	11	287	2.3	114.28	153	---			
	11	287	2.1	104.39	157	---			
60	52	72.7	2.8	23.05	155	---	**SK 7207 - 404/5T**	1301	138
	47	80.5	2.8	25.34	148	---			
	43	87.9	2.0	27.89	125	---	**SK 7307 - 404/5T**	1301	138
	39	97	2.0	30.67	120	---			
	33	115	1.9	36.21	116	---			
	30	126	1.8	39.81	108	---			
	27	140	1.5	44.60	108	---			
	24	158	1.4	49.04	105	---			
	38	99.5	2.3	31.79	140	---	**SK 8307 - 404/5T**	1431	144
	36	105	2.3	33.77	130	---			
	29	130	2.1	41.26	130	---			
	27	140	1.9	43.84	121	---			
	24	158	1.5	50.82	121	---			
	22	172	1.5	53.99	117	---			
	19	199	1.4	63.12	121	---			
	30	126	2.9	40.65	157	---	**SK 9307 - 404/5T**	2165	150
	27	140	2.5	44.70	157	---			
	24	158	2.3	49.13	152	---			
	22	172	2.1	55.56	162	---			
	20	189	1.9	61.07	157	---			
	17	222	1.6	72.25	147	---			
	15	252	1.4	79.41	138	---			

60 hp - 75 hp Parallel Drives n_1 = 1200 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
60	24	158	2.6	50.35	178	---	**SK 10307 - 404/5T**	2383	156
	22	172	2.6	55.14	172	---			
	19	199	2.2	62.59	178	---			
	18	210	2.1	68.54	167	---			
	15	252	1.7	81.38	167	---			
	13	291	1.5	89.12	157	---			
	12	315	1.4	98.36	157	---			
	11	344	1.3	107.71	148	---			
	19	199	3.1	64.31	187	---	**SK 11307 - 404/5T**	3219	162
	17	222	3.0	70.40	176	---			
	15	252	2.3	81.58	171	---			
	13	291	2.0	89.30	162	---			
	11	344	1.9	114.28	153	---			
	11	344	1.8	104.39	157	---			
	12	315	2.6	103.51	207	---	**SK 12307 - 404/5T**	4652	168
	11	344	2.6	112.91	196	---			
	12	315	2.6	103.73	257	---	**SK 13307 - 404/5T**	6702	
	11	344	2.6	113.15	244	---			
75	67	70.6	2.8	17.94	180	---	**SK 7207 - 404/5T**	1301	138
	61	77.5	2.8	19.72	162	---			
	52	90.9	2.3	23.05	155	---			
	47	101	2.2	25.34	148	---			
	43	110	1.6	27.89	125	---	**SK 7307 - 404/5T**	1301	138
	39	121	1.6	30.67	120	---			
	33	143	1.5	36.21	116	---			
	30	158	1.4	39.81	108	---			
	46	103	2.5	26.26	173	---	**SK 8207 - 404/5T**	1431	144
	43	110	2.5	27.90	158	---			
	38	124	1.8	31.79	140	---	**SK 8307 - 404/5T**	1431	144
	36	131	1.8	33.77	130	---			
	29	163	1.7	41.26	130	---			
	27	175	1.5	43.84	121	---			
	38	124	3.0	31.26	174	---	**SK 9307 - 404/5T**	2165	150
	32	148	2.4	36.98	168	---			
	30	158	2.3	40.65	157	---			
	27	175	2.0	44.70	157	---			
	24	197	1.9	49.13	152	---			
	22	215	1.6	55.56	162	---			
	20	236	1.5	61.07	157	---			

75 hp - 100 hp Parallel Drives n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
75	29	163	2.7	41.66	191	---	**SK 10307 - 404/5T**	2383	156
	26	182	2.5	45.62	178	---			
	24	197	2.0	50.35	178	---			
	22	215	2.1	55.14	172	---			
	19	249	1.7	62.59	178	---			
	18	263	1.7	68.54	167	---			
	15	315	1.4	81.38	167	---			
	24	197	3.0	50.25	193	---	**SK 11307 - 404/5T**	3219	162
	22	215	3.0	55.01	181	---			
	19	249	2.4	64.31	187	---			
	17	278	2.4	70.40	176	---			
	15	315	1.8	81.58	171	---			
	13	364	1.6	89.30	162	---			
	11	430	1.5	114.28	153	---			
	11	430	1.4	104.39	157	---			
	15	315	2.5	81.18	218	---	**SK 12307 - 404/5T**	4652	168
	14	338	2.5	88.55	207	---			
	12	394	2.1	103.51	207	---			
	11	430	2.1	112.91	196	---			
	15	315	2.5	80.34	289	---	**SK 13307 - 404/5T**	6702	174
	14	338	2.5	87.64	280	---			
	12	394	2.1	103.73	257	---			
	11	430	2.1	113.15	244	---			
100	107	58.9	2.9	11.26	216	---	**SK 7207 - 444/5T**	1301	138
	97	65	2.9	12.38	191	---			
	85	74.2	2.4	14.20	191	---			
	77	81.9	2.4	15.62	180	---			
	67	94.1	2.1	17.94	180	---			
	61	103	2.1	19.72	162	---			
	52	121	1.7	23.05	155	---			
	47	134	1.7	25.34	148	---			
	74	85.2	2.7	16.19	214	---	**SK 8207 - 444/5T**	1431	144
	70	90	2.7	17.20	202	---			
	59	107	2.3	20.44	202	---			
	55	115	2.3	21.72	182	---			
	46	137	1.9	26.26	173	---			
	43	147	1.8	27.90	158	---			
	38	166	1.4	31.79	140	---	**SK 8307 - 444/5T**	1431	144
	36	175	1.4	33.77	130	---			

100 hp
Parallel Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
100	51	124	2.9	23.31	224	---	**SK 9207 - 444/5T**	2165	150
	47	134	2.8	25.63	214	---			
	42	150	2.4	28.44	181	---	**SK 9307 - 444/5T**	2165	150
	38	166	2.2	31.26	174	---			
	32	197	1.8	36.98	168	---			
	30	210	1.7	40.65	157	---			
	27	233	1.5	44.70	157	---			
	24	263	1.4	49.13	152	---			
	46	137	2.9	26.26	254	---	**SK 10207 - 444/5T**	2383	156
	42	150	2.9	28.76	232	---			
	37	170	2.5	32.04	206	---	**SK 10307 - 444/5T**	2383	156
	34	185	2.4	35.08	191	---			
	29	217	2.0	41.66	191	---			
	26	242	1.9	45.62	178	---			
	24	263	1.5	50.35	178	---			
	22	287	1.5	55.14	172	---			
	19	332	1.3	62.59	178	---			
	29	217	2.8	40.83	206	---	**SK 11307 - 444/5T**	3219	162
	27	233	2.8	44.70	206	---			
	24	263	2.2	50.25	193	---			
	22	287	2.2	55.01	181	---			
	19	332	1.8	64.31	187	---			
	17	371	1.8	70.40	176	---			
	15	420	1.4	81.58	171	---			
	19	332	2.5	63.77	247	---	**SK 12307 - 444/5T**	4652	168
	17	371	2.4	69.56	225	---			
	15	420	1.9	81.18	218	---			
	14	450	1.9	88.55	207	---			
	12	525	1.6	103.51	207	---			
	11	573	1.6	112.91	196	---			
	19	332	2.5	64.78	307	---	**SK 13307 - 444/5T**	6702	174
	17	371	2.4	70.66	289	---			
	15	420	1.9	80.34	289	---			
	14	450	1.9	87.64	280	---			
	12	525	1.6	103.73	257	---			
	11	573	1.6	113.15	244	---			

125 hp Parallel Drives $n_1 = 1200$ rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
125	133	59.2	2.7	8.99	216	---	**SK 7207 - 444/5T**	1301	138
	121	65.1	2.7	9.89	203	---			
	107	73.6	2.3	11.26	216	---			
	97	81.2	2.3	12.38	191	---			
	85	92.7	2.0	14.20	191	---			
	77	102	2.0	15.62	180	---			
	67	118	1.7	17.94	180	---			
	61	129	1.7	19.72	162	---			
	52	152	1.4	23.05	155	---			
	47	168	1.3	25.34	148	---			
	94	83.8	2.6	12.83	243	---	**SK 8207 - 444/5T**	1431	144
	88	89.5	2.6	13.63	214	---			
	74	106	2.2	16.19	214	---			
	70	113	2.2	17.20	202	---			
	59	134	1.8	20.44	202	---			
	55	143	1.8	21.72	182	---			
	46	171	1.5	26.26	173	---			
	43	183	1.5	27.90	158	---			
	66	119	2.8	18.14	262	---	**SK 9207 - 444/5T**	2165	150
	60	131	2.7	19.94	235	---			
	51	154	2.3	23.31	224	---			
	47	168	2.2	25.63	214	---			
	42	188	1.9	28.44	181	---	**SK 9307 - 444/5T**	2165	150
	38	207	1.8	31.26	174	---			
	32	246	1.4	36.98	168	---			
	30	263	1.4	40.65	157	---			
	59	134	2.8	20.44	297	---	**SK 10207 - 444/5T**	2383	156
	54	146	2.8	22.38	267	---			
	46	171	2.3	26.26	254	---			
	42	188	2.3	28.76	232	---			
	37	213	2.0	32.04	206	---	**SK 10307 - 444/5T**	2383	156
	34	232	2.0	35.08	191	---			
	29	272	1.6	41.66	191	---			
	26	303	1.5	45.62	178	---			
	38	207	2.8	31.90	222	---	**SK 11307 - 444/5T**	3219	162
	34	232	2.8	34.93	206	---			
	29	272	2.2	40.83	206	---			
	27	292	2.3	44.70	206	---			
	24	328	1.8	50.25	193	---			
	22	358	1.8	55.01	181	---			
	19	415	1.5	64.31	187	---			
	17	463	1.4	70.40	176	---			

125 hp - 150 hp Parallel Drives $n_1 = 1200$ rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
125	24	328	2.4	50.01	273	---	**SK 12307 - 444/5T**	4652	168
	22	358	2.4	54.55	247	---			
	19	415	2.0	63.77	247	---			
	17	463	1.9	69.56	225	---			
	15	525	1.5	81.18	218	---			
	14	563	1.5	88.55	207	---			
	24	328	2.4	50.17	328	---	**SK 13307 - 444/5T**	6702	174
	22	358	2.4	54.73	317	---			
	19	415	2.0	64.78	307	---			
	17	463	1.9	70.66	289	---			
	15	525	1.5	80.34	289	---			
	14	563	1.5	87.64	280	---			
	12	657	3.0	102.20	384	---	**SK 15307 - 444/5T**	10362	180
	11	716	3.0	111.48	353	---			
150	168	56.3	2.5	7.16	250	---	**SK 7207 - 447/9T**	1301	138
	152	62.2	2.5	7.87	216	---			
	133	71.1	2.2	8.99	216	---			
	121	78.1	2.2	9.89	203	---			
	107	88.4	1.9	11.26	216	---			
	97	97.5	1.9	12.38	191	---			
	85	111	1.6	14.20	191	---			
	77	123	1.6	15.62	180	---			
	67	141	1.4	17.94	180	---			
	61	155	1.4	19.72	162	---			
	147	64.3	2.9	8.15	260	---	**SK 8207 - 447/9T**	1431	144
	139	68	2.9	8.66	228	---			
	117	80.8	2.5	10.25	243	---			
	110	86	2.5	10.89	228	---			
	94	101	2.1	12.83	243	---			
	88	107	2.1	13.63	214	---			
	74	128	1.8	16.19	214	---			
	70	135	1.8	17.20	202	---			
	59	160	1.5	20.44	202	---			
	55	172	1.5	21.72	182	---			
	84	113	2.8	14.37	277	---	**SK 9207 - 447/9T**	2165	150
	76	124	2.7	15.79	262	---			
	66	143	2.3	18.14	262	---			
	60	158	2.2	19.94	235	---			
	51	185	1.9	23.31	224	---			
	47	201	1.8	25.63	214	---			

150 hp - 200 hp Parallel Drives n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
150	42	225	1.6	28.44	181	---	**SK 9307 - 447/9T**	2165	150
	38	249	1.5	31.26	174	---			
	74	128	2.8	16.19	314	---	**SK 10207 - 447/9T**	2383	156
	68	139	2.7	17.72	297	---			
	59	160	2.4	20.44	297	---			
	54	175	2.3	22.38	267	---			
	46	206	1.9	26.26	254	---			
	42	225	1.9	28.76	232	---			
	37	256	1.7	32.04	206	---	**SK 10307 - 447/9T**	2383	156
	34	278	1.6	35.08	191	---			
	29	326	1.3	41.66	191	---			
	46	206	3.0	26.09	230	---	**SK 11307 - 447/9T**	3219	162
	42	225	2.9	28.56	214	---			
	38	249	2.4	31.90	222	---			
	34	278	2.3	34.93	206	---			
	29	326	1.9	40.83	206	---			
	27	350	1.9	44.70	206	---			
	24	394	1.5	50.25	193	---			
	22	430	1.5	55.01	181	---			
	30	315	2.6	40.58	283	---	**SK 12307 - 447/9T**	4652	168
	27	350	2.6	44.26	264	---			
	24	394	2.0	50.01	273	---			
	22	430	2.0	54.55	247	---			
	19	498	1.7	63.77	247	---			
	17	556	1.6	69.56	225	---			
	29	326	2.5	41.20	353	---	**SK 13307 - 447/9T**	6702	174
	27	350	2.6	44.94	328	---			
	24	394	2.0	50.17	328	---			
	22	430	2.0	54.73	317	---			
	19	498	1.7	64.78	307	---			
	17	556	1.6	70.66	289	---			
	15	630	2.9	80.10	396	---	**SK 15307 - 447/9T**	10362	180
	14	675	3.0	87.37	373	---			
	12	788	2.5	102.20	384	---			
	11	860	2.5	111.48	353	---			
200	168	75	1.9	7.16	250	---	**SK 7207 - 447/9T**	1301	138
	152	82.9	1.9	7.87	216	---			
	133	94.8	1.7	8.99	216	---			
	121	104	1.7	9.89	203	---			
	107	118	1.4	11.26	216	---			
	97	130	1.4	12.38	191	A/Fan*			

200 hp
Parallel Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

GEARMOTOR

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
200	147	85.8	2.2	8.15	260	---	**SK 8207 - 447/9T**	1431	144
	139	90.7	2.2	8.66	228	---			
	117	108	1.9	10.25	243	---			
	110	115	1.9	10.89	228	---			
	94	134	1.6	12.83	243	---			
	88	143	1.6	13.63	214	---			
	74	170	1.3	16.19	214	---			
	70	180	1.4	17.20	202	---			
	132	95.5	2.9	9.10	314	---	**SK 9207 - 447/9T**	2165	150
	120	105	2.8	10.00	294	---			
	105	120	2.4	11.39	314	---			
	96	131	2.4	12.52	277	---			
	84	150	2.1	14.37	277	---			
	76	166	2.0	15.79	262	---			
	66	191	1.7	18.14	262	---			
	60	210	1.7	19.94	235	---			
	51	247	1.4	23.31	224	---			
	47	268	1.4	25.63	214	---			
	117	108	2.9	10.25	356	---	**SK 10207 - 447/9T**	2383	156
	107	118	2.8	11.22	334	---			
	94	134	2.5	12.83	356	---			
	85	148	2.4	14.05	314	---			
	74	170	2.1	16.19	314	---			
	68	185	2.0	17.72	297	---			
	59	214	1.8	20.44	297	---			
	54	233	1.7	22.38	267	---			
	46	274	1.4	26.26	254	---			
	42	300	1.4	28.76	232	---			
	65	194	3.0	18.50	315	---	**SK 11207 - 447/9T**	3064	162
	59	214	2.9	20.25	285	---			
	54	233	2.4	22.32	239	---	**SK 11307 - 447/9T**	3219	162
	46	274	2.2	26.09	230	---			
	42	300	2.2	28.56	214	---			
	38	332	1.8	31.90	222	---			
	34	371	1.7	34.93	206	---			
	29	435	1.4	40.83	206	---			
	27	467	1.4	44.70	206	---			
	38	332	2.4	31.82	306	---	**SK 12307 - 447/9T**	4652	168
	35	360	2.4	34.71	283	---			
	30	420	2.0	40.58	283	---			
	27	467	1.9	44.26	264	---			
	24	525	1.5	50.01	273	---			
	22	573	1.5	54.55	247	---			

200 hp - 250 hp Parallel Drives n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
200	38	332	2.4	31.91	366	---	**SK 13307 - 447/9T**	6702	174
	34	371	2.3	34.81	353	---			
	29	435	1.9	41.20	353	---			
	27	467	1.9	44.94	328	---			
	24	525	1.5	50.17	328	---			
	22	573	1.5	54.73	317	---			
	19	663	3.0	63.82	435	---	**SK 15307 - 447/9T**	10362	180
	17	742	2.9	69.62	408	---			
	15	840	2.2	80.10	396	---			
	14	900	2.2	87.37	373	---			
	12	1050	1.9	102.20	384	---			
	11	1150	1.9	111.48	353	---			
250	168	93.8	1.5	7.16	250	---	**SK 7207 - 447/9T**	1301	138
	152	104	1.5	7.87	216	A/Fan*			
	133	118	1.3	8.99	216	A/Fan*			
	121	130	1.3	9.89	203	A/Fan*			
	147	107	1.7	8.15	260	---	**SK 8207 - 447/9T**	1431	144
	139	113	1.7	8.66	228	A/Fan*			
	117	135	1.5	10.25	243	A/Fan*			
	110	143	1.5	10.89	228	A/Fan*			
	166	94.9	2.7	7.24	362	---	**SK 9207 - 447/9T**	2165	150
	151	104	2.6	7.96	314	---			
	132	119	2.3	9.10	314	---			
	120	131	2.2	10.00	294	---			
	105	150	1.9	11.39	314	---			
	96	164	1.9	12.52	277	---			
	84	188	1.7	14.37	277	---			
	76	207	1.6	15.79	262	---			
	66	239	1.4	18.14	262	---			
	60	263	1.3	19.94	235	A/Fan*			
	147	107	2.8	8.15	382	---	**SK 10207 - 447/9T**	2383	156
	134	118	2.7	8.93	334	---			
	117	135	2.3	10.25	356	---			
	107	147	2.3	11.22	334	---			
	94	168	2.0	12.83	356	---			
	85	185	1.9	14.05	314	---			
	74	213	1.7	16.19	314	---			
	68	232	1.6	17.72	297	---			
	59	267	1.4	20.44	297	---			
	54	292	1.4	22.38	267	---			

250 hp - 300 hp Parallel Drives $n_1 = 1200$ rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
250	83	190	2.9	14.46	332	---	**SK 11207 - 447/9T**	3064	162
	76	207	2.8	15.83	315	---			
	65	242	2.4	18.50	315	---			
	59	267	2.3	20.25	285	---			
	54	292	2.0	22.32	239	A/Fan*	**SK 11307 - 447/9T**	3219	162
	46	343	1.8	26.09	230	A/Fan*			
	42	375	1.8	28.56	214	A/Fan*			
	38	415	1.4	31.90	222	A/Fan*			
	34	463	1.4	34.93	206	A/Fan*			
	54	292	3.0	22.13	306	---	**SK 12307 - 447/9T**	4652	168
	46	343	2.4	25.87	294	---			
	43	366	2.4	28.22	273	---			
	38	415	1.9	31.82	306	---			
	35	450	1.9	34.71	283	---			
	30	525	1.6	40.58	283	---			
	27	584	1.5	44.26	264	---			
	46	343	2.4	25.92	381	---	**SK 13307 - 447/9T**	6702	174
	42	375	2.4	28.28	353	---			
	38	415	1.9	31.91	366	---			
	34	463	1.9	34.81	353	---			
	29	543	1.5	41.20	353	---			
	27	584	1.5	44.94	328	---			
	24	657	2.9	50.02	484	---	**SK 15307 - 447/9T**	10362	180
	22	716	2.9	54.56	450	---			
	19	829	2.4	63.82	435	---			
	17	927	2.3	69.62	408	---			
	15	1050	1.8	80.10	396	---			
	14	1130	1.8	87.37	373	---			
	12	1310	1.5	102.20	384	---			
	11	1430	1.5	111.48	353	---			
300	147	129	1.5	8.15	260	A/Fan*	**SK 8207 - 447/9T**	1431	144
	139	136	1.5	8.66	228	A/Fan*			
	166	114	2.3	7.24	362	---	**SK 9207 - 447/9T**	2165	150
	151	125	2.2	7.96	314	---			
	132	143	1.9	9.10	314	---			
	120	158	1.8	10.00	294	A/Fan*			
	105	180	1.6	11.39	314	---			
	96	197	1.6	12.52	277	A/Fan*			
	84	225	1.4	14.37	277	A/Fan*			
	76	249	1.3	15.79	262	A/Fan*			

300 hp Parallel Drives $n_1 = 1200$ rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
300	147	129	2.3	8.15	382	---	**SK 10207 - 447/9T**	2383	156
	134	141	2.2	8.93	334	---			
	117	162	1.9	10.25	356	---			
	107	177	1.9	11.22	334	---			
	94	201	1.7	12.83	356	---			
	85	222	1.6	14.05	314	---			
	74	256	1.4	16.19	314	---			
	68	278	1.4	17.72	297	A/Fan*			
	103	184	2.8	11.61	374	---	**SK 11207 - 447/9T**	3064	162
	94	201	2.7	12.71	352	---			
	83	228	2.4	14.46	332	---			
	76	249	2.3	15.83	315	---			
	65	291	2.0	18.50	315	---			
	59	320	1.9	20.25	285	A/Fan			
	54	350	1.6	22.32	239	A/Fan*	**SK 11307 - 447/9T**	3219	162
	46	411	1.5	26.09	230	A/Fan*			
	42	450	1.5	28.56	214	A/Fan*			
	65	291	2.8	18.34	402	---	**SK 12207 - 447/9T**	4420	168
	60	315	2.8	20.01	364	---			
	54	350	2.5	22.13	306	---	**SK 12307 - 447/9T**	4652	168
	46	411	2.0	25.87	294	A/Fan			
	43	440	2.0	28.22	273	A/Fan			
	38	498	1.6	31.82	306	---			
	35	540	1.6	34.71	283	A/Fan			
	65	291	2.8	18.38	529	---	**SK 13207 - 447/9T**	6217	174
	60	315	2.8	20.05	476	---			
	55	344	2.5	21.90	397	---	**SK 13307 - 447/9T**	6702	174
	46	411	2.0	25.92	381	---			
	42	450	2.0	28.28	353	---			
	38	498	1.6	31.91	366	---			
	34	556	1.6	34.81	353	---			
	24	788	2.4	50.02	484	---	**SK 15307 - 447/9T**	10362	180
	22	860	2.4	54.56	450	---			
	19	995	2.0	63.82	435	---			
	17	1110	1.9	69.62	408	---			
	15	1260	1.5	80.10	396	---			
	14	1350	1.5	87.37	373	---			

350 hp
Parallel Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
350	166	133	1.9	7.24	362	---	**SK 9207 - 585/6**	2165	150
	151	146	1.9	7.96	314	A/Fan*			
	132	167	1.6	9.10	314	A/Fan*			
	120	184	1.6	10.00	294	A/Fan*			
	105	210	1.4	11.39	314	A/Fan*			
	96	230	1.3	12.52	277	A/Fan*			
	147	150	2.0	8.15	382	---	**SK 10207 - 585/6**	2383	156
	134	165	1.9	8.93	334	A/Fan*			
	117	189	1.7	10.25	356	---			
	107	206	1.6	11.22	334	A/Fan*			
	94	235	1.4	12.83	356	---			
	85	260	1.4	14.05	314	A/Fan*			
	133	166	2.9	9.05	399	---	**SK 11207 - 585/6**	3064	162
	121	182	2.8	9.91	374	---			
	103	214	2.4	11.61	374	---			
	94	235	2.3	12.71	352	---			
	83	266	2.0	14.46	332	A/Fan			
	76	290	2.0	15.83	315	A/Fan			
	65	339	1.7	18.50	315	A/Fan			
	59	374	1.6	20.25	285	A/Fan			
	83	266	2.9	14.39	478	---	**SK 12207 - 585/6**	4420	168
	76	290	2.9	15.69	425	---			
	65	339	2.4	18.34	402	---			
	60	368	2.4	20.01	364	---			
	54	409	2.1	22.13	306	A/Fan*	**SK 12307 - 585/6**	4652	168
	46	480	1.7	25.87	294	A/Fan*			
	43	513	1.7	28.22	273	A/Fan*			
	38	581	1.4	31.82	306	A/Fan*			
	35	630	1.4	34.71	283	A/Fan*			
	84	263	3.0	14.24	560	---	**SK 13207 - 585/6**	6217	174
	77	287	2.9	15.53	529	---			
	65	339	2.4	18.38	529	---			
	60	368	2.4	20.05	476	---			
	54	409	1.4	22.32	239	A/Fan*			
	55	401	2.2	21.90	397	---	**SK 13307 - 585/6**	6702	174
	46	480	1.7	25.92	381	---			
	42	525	1.7	28.28	353	---			
	38	581	1.4	31.91	366	---			
	34	649	1.3	34.81	353	---			

350 hp - 400 hp Parallel Drives n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
350	30	735	2.7	40.18	502	---	**SK 15307 - 585/6**	10362	180
	27	817	2.6	43.83	466	---			
	24	919	2.1	50.02	484	---			
	22	1000	2.1	54.56	450	---			
	19	1160	1.7	63.82	435	---			
	17	1300	1.7	69.62	408	---			
400	166	152	1.7	7.24	362	A/Fan*	**SK 9207 - 585/6**	2165	150
	151	167	1.6	7.96	314	A/Fan*			
	132	191	1.4	9.10	314	A/Fan*			
	120	210	1.4	10.00	294	A/Fan*			
	147	172	1.7	8.15	382	A/Fan*	**SK 10207 - 585/6**	2383	156
	134	188	1.7	8.93	334	A/Fan*			
	117	215	1.5	10.25	356	A/Fan*			
	107	236	1.4	11.22	334	A/Fan*			
	167	151	2.9	7.19	460	---	**SK 11207 - 585/6**	3064	162
	152	166	2.9	7.87	427	---			
	133	190	2.5	9.05	399	---			
	121	208	2.5	9.91	374	A/Fan*			
	103	245	2.1	11.61	374	A/Fan*			
	94	268	2.0	12.71	352	A/Fan*			
	83	304	1.8	14.46	332	A/Fan*			
	76	332	1.7	15.83	315	A/Fan*			
	65	388	1.5	18.50	315	A/Fan*			
	59	427	1.4	20.25	285	A/Fan*			
	54	467	1.9	22.13	306	A/Fan*	**SK 12307 - 585/6**	4652	168
	46	548	1.5	25.87	294	A/Fan*			
	43	586	1.5	28.22	273	B/Fan*			
	97	260	2.9	12.40	595	---	**SK 13207 - 585/6**	6217	174
	84	300	2.6	14.24	560	---			
	77	327	2.6	15.53	529	---			
	65	388	2.1	18.38	529	---			
	60	420	2.1	20.05	476	---			
	55	458	1.9	21.90	397	A/Fan	**SK 13307 - 585/6**	6702	174
	46	548	1.5	25.92	381	A/Fan			
	42	600	1.5	28.28	353	A/Fan			
	38	663	2.9	31.49	568	---	**SK 15307 - 585/6**	10362	180
	35	720	2.9	34.35	522	---			
	30	840	2.3	40.18	502	---			
	27	934	2.3	43.83	466	---			
	24	1050	1.8	50.02	484	---			
	22	1150	1.8	54.56	450	---			
	19	1330	1.5	63.82	435	---			
	17	1480	1.4	69.62	408	---			

450 hp
Parallel Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

GEARMOTOR

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
450	166	171	1.5	7.24	362	A/Fan*	**SK 9207 - 586/7**	2165	150
	151	188	1.5	7.96	314	A/Fan*			
	147	193	1.5	8.15	382	A/Fan*	**SK 10207 - 586/7**	2383	156
	134	212	1.5	8.93	334	A/Fan*			
	117	242	1.3	10.25	356	A/Fan*			
	208	136	2.9	5.77	498	---	**SK 11207 - 586/7**	3064	162
	190	149	2.9	6.31	427	A/Fan*			
	167	170	2.6	7.19	460	---			
	152	187	2.6	7.87	427	A/Fan*			
	133	213	2.3	9.05	399	A/Fan*			
	121	234	2.2	9.91	374	A/Fan*			
	103	275	1.9	11.61	374	A/Fan*			
	94	302	1.8	12.71	352	A/Fan*			
	83	342	1.6	14.46	332	A/Fan*			
	76	373	1.5	15.83	315	A/Fan*			
	65	436	1.3	18.50	315	A/Fan*			
	103	275	2.6	11.60	478	---	**SK 12207 - 586/7**	4420	168
	95	299	2.6	12.66	450	---			
	83	342	2.3	14.39	478	---			
	76	373	2.3	15.69	425	A/Fan			
	65	436	1.8	18.34	402	A/Fan			
	60	473	1.8	20.01	364	A/Fan			
	54	525	1.6	22.13	306	B/Fan*	**SK 12307 - 586/7**	4652	168
	46	617	1.3	25.87	294	B/Fan*			
	43	660	1.4	28.22	273	B			
	106	268	2.7	11.37	635	---	**SK 13207 - 586/7**	6217	174
	97	292	2.6	12.40	595	---			
	84	338	2.3	14.24	560	---			
	77	368	2.3	15.53	529	---			
	65	436	1.8	18.38	529	---			
	60	473	1.8	20.05	476	---			
	55	516	1.7	21.90	397	A/Fan*	**SK 13307 - 586/7**	6702	174
	46	617	1.3	25.92	381	A/Fan*			
	42	675	1.3	28.28	353	A/Fan*			
	38	746	2.5	31.49	568	---	**SK 15307 - 586/7**	10362	180
	35	810	2.6	34.35	522	---			
	30	945	2.1	40.18	502	---			
	27	1050	2.0	43.83	466	---			
	24	1180	1.6	50.02	484	---			
	22	1290	1.6	54.56	450	---			
	19	1490	1.3	63.82	435	A/Fan*			
	17	1670	1.3	69.62	408	A/Fan*			

500 hp Parallel Drives $n_1 = 1200$ rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
500	166	190	1.4	7.24	362	A/Fan*	**SK 9207 - 587/8**	2165	150
	151	209	1.3	7.96	314	A/Fan*			
	147	214	1.4	8.15	382	A/Fan*	**SK 10207 - 587/8**	2383	156
	134	235	1.3	8.93	334	A/Fan*			
	208	152	2.6	5.77	498	A/Fan*	**SK 11207 - 587/8**	3064	162
	190	166	2.6	6.31	427	A/Fan*			
	167	189	2.3	7.19	460	A/Fan*			
	152	207	2.3	7.87	427	A/Fan*			
	133	237	2.0	9.05	399	A/Fan*			
	121	260	2.0	9.91	374	A/Fan*			
	103	306	1.7	11.61	374	A/Fan*			
	94	335	1.6	12.71	352	A/Fan*			
	83	380	1.4	14.46	332	A/Fan*			
	76	415	1.4	15.83	315	A/Fan*			
	132	239	2.8	9.10	546	---	**SK 12207 - 587/8**	4420	168
	121	260	2.8	9.93	478	A/Fan			
	103	306	2.3	11.60	478	A/Fan			
	95	332	2.3	12.66	450	A/Fan			
	83	380	2.0	14.39	478	A/Fan			
	76	415	2.0	15.69	425	A/Fan			
	65	485	1.7	18.34	402	A/Fan			
	60	525	1.7	20.01	364	A/Fan			
	54	584	1.5	22.13	306	B	**SK 12307 - 587/8**	4652	168
	130	242	2.8	9.26	680	---	**SK 13207 - 587/8**	6217	174
	119	265	2.7	10.11	635	---			
	106	297	2.4	11.37	635	---			
	97	325	2.4	12.40	595	---			
	84	375	2.1	14.24	560	---			
	77	409	2.1	15.53	529	---			
	65	485	1.7	18.38	529	---			
	60	525	1.7	20.05	476	A/Fan*			
	55	573	1.5	21.90	397	A/Fan*	**SK 13307 - 587/8**	6702	174
	47	671	2.9	25.54	568	---	**SK 15307 - 587/8**	10362	180
	43	733	2.9	27.86	522	---			
	38	829	2.3	31.49	568	---			
	35	900	2.3	34.35	522	---			
	30	1050	1.9	40.18	502	---			
	27	1170	1.8	43.83	466	A/Fan*			
	24	1310	1.4	50.02	484	A/Fan*			
	22	1430	1.4	54.56	450	A/Fan*			

600 hp - 700 hp Parallel Drives n_1 = 1200 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
600	208	182	2.2	5.77	498	A/Fan*	**SK 11207 - 587/8**	3064	162
	190	199	2.2	6.31	427	A/Fan*			
	167	226	1.9	7.19	460	A/Fan*			
	152	249	1.9	7.87	427	A/Fan*			
	133	284	1.7	9.05	399	B/Fan*			
	121	313	1.6	9.91	374	B			
	103	367	1.4	11.61	374	B			
	94	402	1.4	12.71	352	B			
	165	229	2.7	7.27	588	A/Fan*	**SK 12207 - 587/8**	4420	168
	151	250	2.7	7.93	546	A/Fan*			
	132	287	2.3	9.10	546	A/Fan*			
	121	313	2.3	9.93	478	A/Fan*			
	103	367	2.0	11.60	478	A/Fan*			
	95	398	1.9	12.66	450	A/Fan*			
	83	456	1.7	14.39	478	A/Fan*			
	76	498	1.7	15.69	425	A/Fan*			
	65	582	1.4	18.34	402	B/Fan*			
	60	630	1.4	20.01	364	B			
	164	231	2.7	7.31	793	---	**SK 13207 - 587/8**	6217	174
	150	252	2.7	7.98	732	---			
	130	291	2.3	9.26	680	---			
	119	318	2.3	10.11	635	---			
	106	357	2.0	11.37	635	---			
	97	390	2.0	12.40	595	A/Fan*			
	84	450	1.7	14.24	560	A/Fan*			
	77	491	1.7	15.53	529	A/Fan*			
	65	582	1.4	18.38	529	A/Fan*			
	60	630	1.4	20.05	476	B/Fan*			
	55	688	2.6	21.84	622	---	**SK 15307 - 587/8**	10362	180
	47	805	2.5	25.54	568	A/Fan*			
	43	879	2.4	27.86	522	A/Fan*			
	38	995	1.9	31.49	568	A/Fan*			
	35	1080	1.9	34.35	522	A/Fan*			
	30	1260	1.6	40.18	502	A/Fan*			
	27	1400	1.5	43.83	466	B/Fan*			
700	208	212	1.9	5.77	498	B/Fan*	**SK 11207**	3064	162
	190	232	1.9	6.31	427	B			
	167	264	1.7	7.19	460	B/Fan*			
	152	290	1.7	7.87	427	B			
	133	332	1.4	9.05	399	B			
	121	365	1.4	9.91	374	B			

700 hp - 800 hp Parallel Drives n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
700	213	207	2.8	5.64	637	A/Fan*	**SK 12207**	4420	168
	195	226	2.8	6.16	546	A/Fan*			
	165	267	2.3	7.27	588	A/Fan*			
	151	292	2.3	7.93	546	A/Fan*			
	132	334	2.0	9.10	546	A/Fan*			
	121	365	2.0	9.93	478	B/Fan*			
	103	428	1.7	11.60	478	B/Fan*			
	95	464	1.6	12.66	450	B/Fan*			
	83	532	1.5	14.39	478	B/Fan*			
	76	581	1.5	15.69	425	B			
	205	215	2.7	5.85	793	---	**SK 13207**	6217	174
	188	235	2.7	6.38	732	---			
	164	269	2.3	7.31	793	---			
	150	294	2.3	7.98	732	---			
	130	339	2.0	9.26	680	A/Fan*			
	119	371	2.0	10.11	635	A/Fan*			
	106	416	1.7	11.37	635	A/Fan*			
	97	455	1.7	12.40	595	A/Fan*			
	84	525	1.5	14.24	560	B/Fan*			
	77	573	1.5	15.53	529	B/Fan*			
	66	669	2.9	18.11	768	---	**SK 15207**	9832	180
	61	723	2.9	19.76	687	A/Fan*			
	55	802	2.3	21.84	622	A/Fan*	**SK 15307**	10362	180
	47	939	2.1	25.54	568	B/Fan*			
	43	1030	2.1	27.86	522	B/Fan*			
	38	1160	1.6	31.49	568	B/Fan*			
	35	1260	1.6	34.35	522	B/Fan*			
	30	1470	1.3	40.18	502	B/Fan*			
	27	1630	1.3	43.83	466	B/Fan*			
800	208	242	1.6	5.77	498	B	**SK 11207**	3064	162
	190	265	1.6	6.31	427	B			
	167	302	1.5	7.19	460	B			
	152	332	1.4	7.87	427	B			
	213	237	2.4	5.64	637	A/Fan*	**SK 12207**	4420	168
	195	259	2.4	6.16	546	B/Fan*			
	165	306	2.0	7.27	588	B/Fan*			
	151	334	2.0	7.93	546	B/Fan*			
	132	382	1.7	9.10	546	B/Fan*			
	121	417	1.7	9.93	478	B			
	103	490	1.5	11.60	478	B			
	95	531	1.4	12.66	450	B			

800 hp - 900 hp Parallel Drives $n_1 = 1200$ rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
800	205	246	2.3	5.85	793	A/Fan*	**SK 13207**	6217	174
	188	268	2.3	6.38	732	A/Fan*			
	164	307	2.0	7.31	793	A/Fan*			
	150	336	2.0	7.98	732	A/Fan*			
	130	388	1.7	9.26	680	B/Fan*			
	119	424	1.7	10.11	635	B/Fan*			
	106	476	1.5	11.37	635	B/Fan*			
	97	520	1.5	12.40	595	B/Fan*			
	66	764	2.5	18.11	768	A/Fan*	**SK 15207**	9832	180
	61	827	2.5	19.76	687	A/Fan*			
	55	917	2.0	21.84	622	B/Fan*	**SK 15307**	10362	180
	47	1070	1.8	25.54	568	B/Fan*			
	43	1170	1.8	27.86	522	B/Fan*			
	38	1330	1.4	31.49	568	B/Fan*			
	35	1440	1.4	34.35	522	B/Fan*			
900	208	273	1.5	5.77	498	B	**SK 11207**	3064	162
	190	299	1.5	6.31	427	C			
	213	266	2.2	5.64	637	B/Fan*	**SK 12207**	4420	168
	195	291	2.1	6.16	546	B			
	165	344	1.8	7.27	588	B/Fan*			
	151	376	1.8	7.93	546	B			
	132	430	1.6	9.10	546	B			
	121	469	1.5	9.93	478	B			
	103	551	1.3	11.60	478	B			
	205	277	2.1	5.85	793	A/Fan*	**SK 13207**	6217	174
	188	302	2.1	6.38	732	B/Fan*			
	164	346	1.8	7.31	793	A/Fan*			
	150	378	1.8	7.98	732	B/Fan*			
	130	436	1.5	9.26	680	B/Fan*			
	119	477	1.5	10.11	635	B/Fan*			
	106	535	1.3	11.37	635	B/Fan*			
	97	585	1.3	12.40	595	C/Fan*			
	85	667	2.8	14.19	816	A/Fan*	**SK 15207**	9832	180
	78	727	2.8	15.48	768	A/Fan*			
	66	860	2.2	18.11	768	A/Fan*			
	61	930	2.2	19.76	687	B/Fan*			
	55	1030	1.8	21.84	622	B/Fan*	**SK 15307**	10362	180
	47	1210	1.6	25.54	568	C/Fan*			
	43	1320	1.6	27.86	522	C			

Notes

7.5 hp - 15 hp Parallel Drives n_1 = 1800 rpm

DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
7.5	6	73.5	2.9	283.89	64	---	SK 7307 - 213T	1301	138
	6	83.2	2.7	312.15	65	---			
	5	90.3	3.0	343.72	73	---	SK 8307 - 213T	1431	144
10	10	63.7	2.9	177.56	83	---	SK 7307 - 215T	1301	138
	9	69	2.9	195.24	71	---			
	8	79.7	2.7	230.49	68	---			
	7	89.4	2.5	253.44	66	---			
	6	102	2.1	283.89	64	---			
	6	106	2.1	312.15	65	---			
	9	70.8	3.0	202.34	91	---	SK 8307 - 215T	1431	144
	8	74.3	3.0	214.99	79	---			
	7	91.2	2.9	262.65	74	---			
	6	100	2.7	279.07	74	---			
	6	111	2.4	323.50	70	---			
	5	123	2.2	343.72	73	---			
	5	122	2.9	343.19	91	---	SK 9307 - 215T	2165	150
	8	78.8	2.8	223.80	116	---	SK 10307 - 215T	2383	156
	7	86.7	2.8	245.07	109	---			
	6	101	2.8	291.01	109	---			
	6	113	2.7	318.66	103	---			
	5	124	2.7	351.71	107	---			
	5	134	2.7	385.13	101	---			
15	13	73.5	2.9	140.37	88	---	SK 7307 - 254T	1301	138
	12	79.7	2.8	154.34	88	---			
	10	92.9	2.0	177.56	83	---			
	9	101	2.0	195.24	71	---			
	8	119	1.8	230.49	68	---			
	7	132	1.7	253.44	66	---			
	6	153	1.4	283.89	64	---			
	6	160	1.4	312.15	65	---			
	11	85.9	3.1	169.95	98	---	SK 8307 - 254T	1431	144
	11	85.9	2.9	159.95	98	---			
	9	106	2.0	202.34	91	---			
	8	112	2.0	214.99	79	---			
	7	140	1.9	262.65	74	---			
	6	150	1.8	279.07	74	---			
	6	166	1.6	323.50	70	---			
	5	180	1.5	343.72	73	---			

15 hp - 20 hp Parallel Drives n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
15	9	106	2.1	198.68	102	---	**SK 9307 - 254T**	2165	150
	8	115	2.1	218.38	98	---			
	7	134	2.1	258.35	96	---			
	6	152	2.0	283.96	92	---			
	6	166	2.0	312.23	94	---			
	5	187	1.9	343.19	91	---			
	8	117	1.9	223.80	116	---	**SK 10307 - 254T**	2383	156
	7	127	1.9	245.07	109	---			
	6	149	1.9	291.01	109	---			
	6	170	1.8	318.66	103	---			
	5	186	1.8	351.71	107	---			
	5	201	1.8	385.13	101	---			
20	16	79.7	2.7	113.97	90	---	**SK 7307 - 256T**	1301	138
	14	89.4	2.5	125.31	93	---			
	13	96.5	2.2	140.37	88	---			
	12	106	2.1	154.34	88	---			
	10	123	1.5	177.56	83	---			
	9	134	1.5	195.24	71	---			
	8	165	1.3	230.49	68	---			
	14	89.4	3.0	129.87	101	---	**SK 8307 - 256T**	1431	144
	13	96.5	2.8	137.98	98	---			
	11	113	2.2	159.95	98	---			
	11	115	2.3	169.95	98	---			
	9	142	1.5	202.34	91	---			
	8	150	1.5	214.99	79	---			
	7	177	1.5	262.65	74	---			
	6	193	1.4	279.07	74	---			
	10	127	2.8	172.76	121	---	**SK 9307 - 256T**	2165	150
	9	140	1.6	198.68	102	---			
	8	151	1.6	218.38	98	---			
	7	176	1.6	258.35	96	---			
	6	203	1.5	283.96	92	---			
	6	220	1.5	312.23	94	---			
	5	236	1.5	343.19	91	---			
	8	158	1.4	223.80	116	---	**SK 10307 - 256T**	2383	156
	7	173	1.4	245.07	109	---			
	6	203	1.4	291.01	109	---			
	6	219	1.4	318.66	103	---			
	5	239	1.4	351.71	107	---			
	5	278	1.3	385.13	101	---			

25 hp - 30 hp Parallel Drives n_1 = 1800 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
25	20	77.9	2.7	88.56	101	---	**SK 7307 - 284T**	1301	138
	18	85.9	2.6	97.38	93	---			
	16	97.4	2.2	113.97	90	---			
	14	112	2.0	125.31	93	---			
	13	118	1.8	140.37	88	---			
	12	132	1.7	154.34	88	---			
	18	87.6	2.8	100.92	107	---	**SK 8307 - 284T**	1431	144
	17	92.9	2.8	107.23	101	---			
	14	112	2.4	129.87	101	---			
	13	123	2.2	137.98	98	---			
	11	140	1.9	169.95	98	---			
	11	147	1.7	159.95	98	---			
	11	142	2.5	157.18	127	---	**SK 9307 - 284T**	2165	150
	10	155	2.3	172.76	121	---			
	10	155	2.8	177.05	144	---	**SK 10307 - 284T**	2383	156
	9	169	2.6	193.87	134	---			
30	25	76.1	2.8	71.91	101	---	**SK 7307 - 286T**	1301	138
	23	83.2	2.7	79.07	95	---			
	20	95.6	2.2	88.56	101	---			
	18	106	2.1	97.38	93	---			
	16	119	1.8	113.97	90	---			
	14	132	1.7	125.31	93	---			
	13	142	1.5	140.37	88	---			
	12	160	1.4	154.34	88	---			
	21	90.3	3.0	87.06	107	---	**SK 8307 - 286T**	1431	144
	18	107	2.3	100.92	107	---			
	17	113	2.3	107.23	101	---			
	14	135	2.0	129.87	101	---			
	13	142	1.9	137.98	98	---			
	11	166	1.5	159.95	98	---			
	11	177	1.5	169.95	98	---			
	15	127	2.8	123.04	135	---	**SK 9307 - 286T**	2165	150
	13	143	2.5	135.24	127	---			
	11	168	2.1	157.18	127	---			
	10	188	1.9	172.76	121	---			
	13	144	3.0	138.60	144	---	**SK 10307 - 286T**	2383	156
	12	158	2.8	151.77	144	---			
	10	189	2.3	177.05	144	---			
	9	199	2.2	193.87	134	---			

40 hp - 50 hp Parallel Drives n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
40	32	79.7	2.7	55.39	112	---	**SK 7307 - 324T**	1301	138
	30	83.2	2.7	60.91	108	---			
	25	102	2.1	71.91	101	---			
	23	112	2.0	79.07	95	---			
	20	123	1.7	88.56	101	---			
	18	140	1.6	97.38	93	---			
	16	153	1.4	113.97	90	---			
	27	92.9	2.9	67.07	114	---	**SK 8307 - 324T**	1431	144
	22	113	2.4	81.94	114	---			
	21	123	2.2	87.06	107	---			
	18	136	1.8	100.92	107	---			
	17	145	1.8	107.23	101	---			
	14	179	1.5	129.87	101	---			
	13	193	1.4	137.98	98	---			
	21	122	2.9	87.32	147	---	**SK 9307 - 324T**	2165	150
	19	133	2.7	95.98	135	---			
	16	156	2.3	111.90	131	---			
	15	168	2.1	123.04	135	---			
	13	198	1.8	135.24	127	---			
	11	235	1.5	157.18	127	---			
	10	255	1.4	172.76	121	---			
	17	148	3.0	107.71	148	---	**SK 10307 - 324T**	2383	156
	14	177	2.5	125.57	148	---			
	13	197	2.2	138.60	144	---			
	12	210	2.1	151.77	144	---			
	10	255	1.7	177.05	144	---			
	9	274	1.6	193.87	134	---			
50	40	78.8	2.6	44.60	108	---	**SK 7307 - 326T**	1301	138
	37	85.9	2.6	49.04	105	---			
	32	97.4	2.2	55.39	112	---			
	30	106	2.1	60.91	108	---			
	25	126	1.7	71.91	101	---			
	23	140	1.6	79.07	95	---			
	20	161	1.3	88.56	101	---			
	18	173	1.3	97.38	93	---			
	35	89.4	2.7	50.82	121	---	**SK 8307 - 326T**	1431	144
	33	94.7	2.7	53.99	117	---			
	29	109	2.5	63.12	121	---			
	27	118	2.3	67.07	114	---			
	22	142	1.9	81.94	114	---			
	21	150	1.8	87.06	107	---			
	18	176	1.4	100.92	107	---			
	17	187	1.4	107.23	101	---			

50 hp - 60 hp
Parallel Drives
n_1 = 1800 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
50	25	127	2.8	72.25	147	---	**SK 9307 - 326T**	2165	150
	23	139	2.6	79.41	138	---			
	21	147	2.4	87.32	147	---			
	19	164	2.2	95.98	135	---			
	16	199	1.8	111.90	131	---			
	15	208	1.7	123.04	135	---			
	13	238	1.5	135.24	127	---			
	20	158	2.8	89.12	157	---	**SK 10307 - 326T**	2383	156
	18	173	2.5	98.36	157	---			
	17	184	2.4	107.71	148	---			
	14	221	2.0	125.57	148	---			
	13	241	1.8	138.60	144	---			
	12	259	1.7	151.77	144	---			
	10	310	1.4	177.05	144	---			
60	50	76.1	2.8	36.21	116	---	**SK 7307 - 364T**	1301	138
	45	83.2	2.7	39.81	108	---			
	40	92.9	2.2	44.60	108	---			
	37	102	2.2	49.04	105	---			
	32	119	1.8	55.39	112	---			
	30	125	1.8	60.91	108	---			
	25	153	1.4	71.91	101	---			
	23	160	1.4	79.07	95	---			
	41	92.9	2.9	43.84	121	---	**SK 8307 - 364T**	1431	144
	35	110	2.2	50.82	121	---			
	33	116	2.2	53.99	117	---			
	29	129	2.1	63.12	121	---			
	27	142	1.9	67.07	114	---			
	22	169	1.6	81.94	114	---			
	21	180	1.5	87.06	107	---			
	29	129	2.8	61.07	157	---	**SK 9307 - 364T**	2165	150
	25	153	2.3	72.25	147	---			
	23	164	2.2	79.41	138	---			
	21	177	2.0	87.32	147	---			
	19	200	1.8	95.98	135	---			
	16	239	1.5	111.90	131	---			
	15	252	1.4	123.04	135	---			
	22	173	2.5	81.38	167	---	**SK 10307 - 364T**	2383	156
	20	193	2.3	89.12	157	---			
	18	206	2.1	98.36	157	---			
	17	221	2.0	107.71	148	---			
	14	276	1.6	125.57	148	---			
	13	289	1.5	138.60	144	---			
	12	315	1.4	151.77	144	---			

60 hp - 100 hp Parallel Drives n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
60	17	225	2.7	104.39	157	---	**SK 11307 - 364T**	3219	162
	16	236	2.8	114.28	153	---			
75	65	74.3	2.4	27.89	125	---	**SK 7307 - 365T**	1301	138
	59	81.4	2.4	30.67	120	---			
	50	92.9	2.3	36.21	116	---			
	45	106	2.1	39.81	108	---			
	40	120	1.7	44.60	108	---			
	37	131	1.7	49.04	105	---			
	32	153	1.4	55.39	112	---			
	30	160	1.4	60.91	108	---			
	57	83.2	2.7	31.79	140	---	**SK 8307 - 365T**	1431	144
	53	88.5	2.7	33.77	130	---			
	44	105	2.6	41.26	130	---			
	41	118	2.3	43.84	121	---			
	35	135	1.8	50.82	121	---			
	33	142	1.8	53.99	117	---			
	29	160	1.7	63.12	121	---			
	27	180	1.5	67.07	114	---			
	37	126	2.9	49.13	152	---	**SK 9307 - 365T**	2165	150
	32	147	2.4	55.56	162	---			
	29	165	2.2	61.07	157	---			
	25	186	1.9	72.25	147	---			
	23	201	1.8	79.41	138	---			
	21	220	1.6	87.32	147	---			
	19	257	1.4	95.98	135	---			
	29	160	2.7	62.59	178	---	**SK 10307 - 365T**	2383	156
	26	179	2.5	68.54	167	---			
	22	217	2.0	81.38	167	---			
	20	234	1.9	89.12	157	---			
	18	255	1.7	98.36	157	---			
	17	277	1.6	107.71	148	---			
	14	340	1.3	125.57	148	---			
	22	213	2.7	81.58	171	---	**SK 11307 - 365T**	3219	162
	20	240	2.4	89.30	162	---			
	17	276	2.2	104.39	157	---			
	16	301	2.2	114.28	153	---			
100	78	79.7	2.6	23.05	155	---	**SK 7207 - 404/5T**	1301	138
	71	89.4	2.5	25.34	148	---			
	65	99.1	1.8	27.89	125	---	**SK 7307 - 404/5T**	1301	138
	59	109	1.8	30.67	120	---			
	50	126	1.7	36.21	116	---			
	45	140	1.6	39.81	108	---			
	40	158	1.3	44.60	108	---			

100 hp - 125 hp
Parallel Drives
n_1 = 1800 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
100	69	92	2.8	26.26	173	---	**SK 8207 - 404/5T**	1431	144
	65	96.5	2.8	27.90	158	---			
	57	112	2.0	31.79	140	---	**SK 8307 - 404/5T**	1431	144
	53	119	2.0	33.77	130	---			
	44	144	1.9	41.26	130	---			
	41	150	1.8	43.84	121	---			
	35	186	1.3	50.82	121	---			
	33	196	1.3	53.99	117	---			
	49	131	2.7	36.98	168	---	**SK 9307 - 404/5T**	2165	150
	44	141	2.6	40.65	157	---			
	40	160	2.2	44.70	157	---			
	37	173	2.1	49.13	152	---			
	32	196	1.8	55.56	162	---			
	29	213	1.7	61.07	157	---			
	25	252	1.4	72.25	147	---			
	43	144	3.0	41.66	191	---	**SK 10307 - 404/5T**	2383	156
	39	161	2.8	45.62	178	---			
	36	175	2.3	50.35	178	---			
	33	192	2.3	55.14	172	---			
	29	217	2.0	62.59	178	---			
	26	249	1.8	68.54	167	---			
	22	289	1.5	81.38	167	---			
	20	318	1.4	89.12	157	---			
	28	225	2.7	64.31	187	---	**SK 11307 - 404/5T**	3219	162
	26	245	2.7	70.40	176	---			
	22	288	2.0	81.58	171	---			
	20	320	1.8	89.30	162	---			
	17	380	1.6	104.39	157	---			
	16	389	1.7	114.28	153	---			
	22	291	2.7	81.18	218	---	**SK 12307 - 404/5T**	4652	168
	20	317	2.7	88.55	207	---			
	17	375	2.2	103.51	207	---			
	16	390	2.3	112.91	196	---			
	22	291	2.7	80.34	289	---	**SK 13307 - 404/5T**	6702	180
	21	295	2.9	87.64	280	---			
	17	375	2.2	103.73	257	---			
	16	390	2.3	113.15	244	---			
125	127	62.8	2.9	14.20	191	---	**SK 7207 - 444/5T**	1301	138
	115	69	2.9	15.62	180	---			
	100	77.9	2.5	17.94	180	---			
	91	85.9	2.5	19.72	162	---			
	78	104	2.0	23.05	155	---			
	71	112	2.0	25.34	148	---			

125 hp Parallel Drives n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight lb [lb]	Dim. Page
125	65	119	1.5	27.89	125	---	**SK 7307 - 444/5T**	1301	138
	59	130	1.5	30.67	120	A/Fan*			
	50	153	1.4	36.21	116	A/Fan*			
	88	90.3	2.7	20.44	202	---	**SK 8207 - 444/5T**	1431	144
	83	96.5	2.7	21.72	182	---			
	69	112	2.3	26.26	173	---			
	65	123	2.2	27.90	158	---			
	57	140	1.6	31.79	140	---	**SK 8307 - 444/5T**	1431	144
	53	149	1.6	33.77	130	---			
	44	183	1.5	41.26	130	---			
	41	193	1.4	43.84	121	A/Fan*			
	63	127	2.8	28.44	181	---	**SK 9307 - 444/5T**	2165	150
	58	136	2.7	31.26	174	---			
	49	160	2.2	36.98	168	---			
	44	183	2.0	40.65	157	---			
	40	196	1.8	44.70	157	---			
	37	214	1.7	49.13	152	---			
	32	252	1.4	55.56	162	---			
	29	279	1.3	61.07	157	---			
	51	157	2.9	35.08	191	---	**SK 10307 - 444/5T**	2383	156
	43	181	2.4	41.66	191	---			
	39	205	2.2	45.62	178	---			
	36	224	1.8	50.35	178	---			
	33	245	1.8	55.14	172	---			
	29	271	1.6	62.59	178	---			
	26	298	1.5	68.54	167	---			
	36	218	2.7	50.25	193	---	**SK 11307 - 444/5T**	3219	162
	33	237	2.7	55.01	181	---			
	28	276	2.2	64.31	187	---			
	26	301	2.2	70.40	176	---			
	22	359	1.6	81.58	171	---			
	20	383	1.5	89.30	162	---			
	17	467	1.3	104.39	157	---			
	16	509	1.3	114.28	153	---			
	28	285	2.9	63.77	247	---	**SK 12307 - 444/5T**	4652	168
	26	299	3.0	69.56	225	---			
	22	358	2.2	81.18	218	---			
	20	389	2.2	88.55	207	---			
	17	458	1.8	103.51	207	---			
	16	498	1.8	112.91	196	---			

125 hp - 150 hp Parallel Drives $n_1 = 1800$ rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
125	28	285	2.9	64.78	307	---	**SK 13307 - 444/5T**	6702	174
	25	320	2.8	70.66	289	---			
	22	358	2.2	80.34	289	---			
	21	372	2.3	87.64	280	---			
	17	458	1.8	103.73	257	---			
	16	498	1.8	113.15	244	---			
150	160	59.3	2.9	11.26	216	---	**SK 7207 - 444/5T**	1301	138
	145	64.6	2.9	12.38	191	---			
	127	75.2	2.4	14.20	191	---			
	115	83.2	2.4	15.62	180	---			
	100	92.9	2.1	17.94	180	---			
	91	102	2.1	19.72	162	---			
	78	121	1.7	23.05	155	---			
	71	132	1.7	25.34	148	A/Fan*			
	111	85	2.7	16.19	214	---	**SK 8207 - 444/5T**	1431	144
	105	90.3	2.7	17.20	202	---			
	88	106	2.3	20.44	202	---			
	83	112	2.3	21.72	182	---			
	69	136	1.9	26.26	173	---			
	65	142	1.9	27.90	158	---			
	57	160	1.4	31.79	140	A/Fan*	**SK 8307 - 444/5T**	1431	144
	53	183	1.3	33.77	130	A/Fan*			
	77	122	2.9	23.31	224	---	**SK 9207 - 444/5T**	2165	150
	70	137	2.7	25.63	214	---			
	63	147	2.4	28.44	181	---	**SK 9307 - 444/5T**	2165	150
	58	160	2.3	31.26	174	---			
	49	196	1.8	36.98	168	---			
	44	216	1.7	40.65	157	---			
	40	235	1.5	44.70	157	---			
	37	260	1.4	49.13	152	---			
	69	136	2.9	26.26	254	---	**SK 10207 - 444/5T**	2383	156
	63	148	2.9	28.76	232	---			
	56	166	2.6	32.04	206	---	**SK 10307 - 444/5T**	2383	156
	51	189	2.4	35.08	191	---			
	43	217	2.0	41.66	191	---			
	39	237	1.9	45.62	178	---			
	36	269	1.5	50.35	178	---			
	33	295	1.5	55.14	172	---			
	29	334	1.3	62.59	178	---			

150 hp - 200 hp Parallel Drives n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
150	44	217	2.8	40.83	206	---	**SK 11307 - 444/5T**	3219	162
	40	237	2.8	44.70	206	---			
	36	266	2.2	50.25	193	---			
	33	291	2.2	55.01	181	---			
	28	337	1.8	64.31	187	---			
	26	368	1.8	70.40	176	---			
	22	443	1.3	81.58	171	---			
	28	344	2.4	63.77	247	---	**SK 12307 - 444/5T**	4652	168
	26	359	2.5	69.56	225	---			
	22	436	1.8	81.18	218	---			
	20	475	1.8	88.55	207	---			
	17	551	1.5	103.51	207	---			
	16	598	1.5	112.91	196	---			
	28	344	2.4	64.78	307	---	**SK 13307 - 444/5T**	6702	174
	25	374	2.4	70.66	289	---			
	22	436	1.8	80.34	289	---			
	21	451	1.9	87.64	280	---			
	17	551	1.5	103.73	257	---			
	16	598	1.5	113.15	244	---			
200	251	50.4	2.8	7.16	250	---	**SK 7207 - 447/9T**	1301	138
	229	55.8	2.8	7.87	216	---			
	200	62.8	2.5	8.99	216	---			
	182	69	2.5	9.89	203	---			
	160	77.9	2.2	11.26	216	---			
	145	85	2.2	12.38	191	A/Fan*			
	127	101	1.8	14.20	191	A/Fan*			
	115	112	1.8	15.62	180	A/Fan*			
	100	130	1.5	17.94	180	A/Fan*			
	91	142	1.5	19.72	162	A/Fan*			
	176	72.6	2.8	10.25	243	---	**SK 8207 - 447/9T**	1431	144
	165	77.9	2.8	10.89	228	---			
	140	90.3	2.4	12.83	243	---			
	132	95.6	2.4	13.63	214	---			
	111	115	2.0	16.19	214	---			
	105	122	2.0	17.20	202	---			
	88	143	1.7	20.44	202	---			
	83	152	1.7	21.72	182	A/Fan*			
	69	185	1.4	26.26	173	A/Fan*			
	65	193	1.4	27.90	158	A/Fan*			
	114	110	3.0	15.79	262	---	**SK 9207 - 447/9T**	2165	150
	99	127	2.6	18.14	262	---			
	90	141	2.5	19.94	235	---			
	77	160	2.2	23.31	224	---			
	70	177	2.1	25.63	214	---			

200 hp
Parallel Drives
n_1 = 1800 rpm

NORD DRIVESYSTEMS

GEARMOTOR

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
200	63	196	1.8	28.44	181	A/Fan*	**SK 9307 - 447/9T**	2165	150
	58	217	1.7	31.26	174	A/Fan*			
	49	252	1.4	36.98	168	A/Fan*			
	88	141	2.7	20.44	297	---	**SK 10207 - 447/9T**	2383	156
	80	156	2.6	22.38	267	---			
	69	181	2.2	26.26	254	---			
	63	204	2.1	28.76	232	---			
	56	228	1.9	32.04	206	---	**SK 10307 - 447/9T**	2383	156
	51	252	1.8	35.08	191	A/Fan*			
	43	289	1.5	41.66	191	A/Fan*			
	39	322	1.4	45.62	178	A/Fan*			
	56	226	2.6	31.90	222	---	**SK 11307 - 447/9T**	3219	162
	52	246	2.6	34.93	206	---			
	44	289	2.1	40.83	206	---			
	40	316	2.1	44.70	206	---			
	36	345	1.7	50.25	193	A/Fan			
	33	376	1.7	55.01	181	A/Fan			
	28	467	1.3	64.31	187	A/Fan			
	26	474	1.4	70.40	176	A/Fan			
	44	285	2.9	40.58	283	---	**SK 12307 - 447/9T**	4652	168
	41	309	2.9	44.26	264	---			
	36	348	2.3	50.01	273	---			
	33	378	2.3	54.55	247	---			
	28	458	1.8	63.77	247	---			
	26	473	1.9	69.56	225	---			
	22	561	1.4	81.18	218	---			
	20	612	1.4	88.55	207	---			
	44	285	2.9	41.20	353	---	**SK 13307 - 447/9T**	6702	174
	40	320	2.8	44.94	328	---			
	36	348	2.3	50.17	328	---			
	33	378	2.3	54.73	317	---			
	28	458	1.8	64.78	307	---			
	25	498	1.8	70.66	289	---			
	22	561	1.4	80.34	289	---			
	21	612	1.4	87.64	280	---			
	18	705	2.8	102.20	384	---	**SK 15307 - 447/9T**	10362	180
	16	794	2.7	111.48	353	---			

200 hp - 250 hp Parallel Drives n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
250	251	62	2.3	7.16	250	---	**SK 7207 - 447/9T**	1301	138
	229	68.2	2.3	7.87	216	A/Fan*			
	200	78.8	2.0	8.99	216	A/Fan*			
	182	86.7	2.0	9.89	203	A/Fan*			
	160	101	1.7	11.26	216	A/Fan*			
	145	111	1.7	12.38	191	A/Fan*			
	127	121	1.5	14.20	191	A/Fan*			
	115	134	1.5	15.62	180	A/Fan*			
	221	71.7	2.6	8.15	260	---	**SK 8207 - 447/9T**	1431	144
	208	76.1	2.6	8.66	228	A/Fan*			
	176	88.5	2.3	10.25	243	A/Fan*			
	165	94.7	2.3	10.89	228	A/Fan*			
	140	113	1.9	12.83	243	A/Fan*			
	132	120	1.9	13.63	214	A/Fan*			
	111	143	1.6	16.19	214	A/Fan*			
	105	153	1.6	17.20	202	A/Fan*			
	88	173	1.4	20.44	202	A/Fan*			
	83	185	1.4	21.72	182	A/Fan*			
	158	100	2.9	11.39	314	---	**SK 9207 - 447/9T**	2165	150
	144	111	2.8	12.52	277	---			
	125	124	2.5	14.37	277	---			
	114	137	2.4	15.79	262	---			
	99	158	2.1	18.14	262	---			
	90	176	2.0	19.94	235	A/Fan*			
	77	208	1.7	23.31	224	A/Fan*			
	70	232	1.6	25.63	214	A/Fan*			
	63	252	1.4	28.44	181	A/Fan*	**SK 9307 - 447/9T**	2165	150
	58	263	1.4	31.26	174	A/Fan*			
	140	112	3.0	12.83	356	---	**SK 10207 - 447/9T**	2383	156
	128	122	2.9	14.05	314	---			
	111	143	2.5	16.19	314	---			
	102	151	2.5	17.72	297	---			
	88	181	2.1	20.44	297	---			
	80	193	2.1	22.38	267	---			
	69	234	1.7	26.26	254	---			
	63	252	1.7	28.76	232	A/Fan*			
	56	289	1.5	32.04	206	A/Fan*	**SK 10307 - 447/9T**	2383	156
	51	303	1.5	35.08	191	A/Fan*			

250 hp - 300 hp
Parallel Drives
n_1 = 1800 rpm

NORD DRIVESYSTEMS

GEARMOTOR

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
250	81	196	2.9	22.32	239	A/Fan*	**SK 11307 - 447/9T**	3219	162
	69	225	2.7	26.09	230	A/Fan*			
	63	245	2.7	28.56	214	A/Fan*			
	56	280	2.1	31.90	222	A/Fan*			
	52	305	2.1	34.93	206	A/Fan*			
	44	358	1.7	40.83	206	A/Fan*			
	40	390	1.7	44.70	206	A/Fan*			
	36	451	1.3	50.25	193	A/Fan*			
	33	492	1.3	55.01	181	A/Fan*			
	57	276	2.9	31.82	306	---	**SK 12307 - 447/9T**	4652	168
	52	300	2.9	34.71	283	---			
	44	359	2.3	40.58	283	---			
	41	389	2.3	44.26	264	---			
	36	444	1.8	50.01	273	---			
	33	483	1.8	54.55	247	A/Fan			
	28	551	1.5	63.77	247	A/Fan			
	26	598	1.5	69.56	225	A/Fan			
	56	286	2.8	31.91	366	---	**SK 13307 - 447/9T**	6702	174
	52	300	2.9	34.81	353	---			
	44	359	2.3	41.20	353	---			
	40	389	2.3	44.94	328	---			
	36	444	1.8	50.17	328	---			
	33	483	1.8	54.73	317	---			
	28	551	1.5	64.78	307	---			
	25	641	1.4	70.66	289	---			
	22	713	2.6	80.10	396	---	**SK 15307 - 447/9T**	10362	180
	21	749	2.7	87.37	373	---			
	18	859	2.3	102.20	384	---			
	16	974	2.2	111.48	353	---			
300	251	74.3	1.9	7.16	250	A/Fan*	**SK 7207 - 447/9T**	1301	138
	229	82.3	1.9	7.87	216	A/Fan*			
	200	92.9	1.7	8.99	216	A/Fan*			
	182	102	1.7	9.89	203	A/Fan*			
	160	122	1.4	11.26	216	A/Fan*			
	145	134	1.4	12.38	191	A/Fan*			
	221	85	2.2	8.15	260	A/Fan*	**SK 8207 - 447/9T**	1431	144
	208	90.3	2.2	8.66	228	A/Fan*			
	176	107	1.9	10.25	243	A/Fan*			
	165	114	1.9	10.89	228	A/Fan*			
	140	135	1.6	12.83	243	A/Fan*			
	132	143	1.6	13.63	214	A/Fan*			
	105	174	1.4	17.20	202	A/Fan*			
	111	176	1.3	16.19	214	A/Fan*			

300 hp Parallel Drives n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
300	198	94.7	2.9	9.10	314	---	**SK 9207 - 447/9T**	2165	150
	180	104	2.8	10.00	294	A/Fan*			
	158	121	2.4	11.39	314	---			
	144	128	2.4	12.52	277	A/Fan*			
	125	155	2.0	14.37	277	A/Fan*			
	114	166	2.0	15.79	262	A/Fan*			
	99	194	1.7	18.14	262	A/Fan*			
	90	207	1.7	19.94	235	A/Fan*			
	77	252	1.4	23.31	224	A/Fan*			
	70	265	1.4	25.63	214	A/Fan*			
	176	109	2.9	10.25	356	---	**SK 10207 - 447/9T**	2383	156
	160	119	2.8	11.22	334	---			
	140	134	2.5	12.83	356	---			
	128	148	2.4	14.05	314	---			
	111	170	2.1	16.19	314	---			
	102	189	2.0	17.72	297	A/Fan*			
	88	212	1.8	20.44	297	A/Fan*			
	80	238	1.7	22.38	267	A/Fan*			
	69	283	1.4	26.26	254	A/Fan*			
	63	306	1.4	28.76	232	A/Fan*			
	97	194	3.0	18.50	315	---	**SK 11207 - 447/9T**	3064	162
	89	212	2.9	20.25	285	A/Fan			
	81	238	2.4	22.32	239	A/Fan*	**SK 11307 - 447/9T**	3219	162
	69	276	2.2	26.09	230	A/Fan*			
	63	301	2.2	28.56	214	A/Fan*			
	56	345	1.7	31.90	222	A/Fan*			
	52	356	1.8	34.93	206	A/Fan*			
	44	434	1.4	40.83	206	A/Fan*			
	40	474	1.4	44.70	206	A/Fan*			
	57	334	2.4	31.82	306	---	**SK 12307 - 447/9T**	4652	168
	52	363	2.4	34.71	283	A/Fan			
	44	435	1.9	40.58	283	A/Fan			
	41	472	1.9	44.26	264	A/Fan			
	36	534	1.5	50.01	273	A/Fan			
	33	580	1.5	54.55	247	A/Fan			
	56	334	2.4	31.91	366	---	**SK 13307 - 447/9T**	6702	174
	52	363	2.4	34.81	353	---			
	44	435	1.9	41.20	353	---			
	40	472	1.9	44.94	328	---			
	36	534	1.5	50.17	328	---			
	33	580	1.5	54.73	317	---			

300 hp - 350 hp Parallel Drives n_1 = 1800 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
300	28	681	2.9	63.82	435	---	**SK 15307 - 447/9T**	10362	180
	26	715	3.0	69.62	408	---			
	22	843	2.2	80.10	396	---			
	21	920	2.2	87.37	373	---			
	18	1040	1.9	102.20	384	---			
	16	1190	1.8	111.48	353	---			
350	251	88.5	1.6	7.16	250	A/Fan*	**SK 7207 - 447/9T**	1301	138
	229	97.4	1.6	7.87	216	A/Fan*			
	200	112	1.4	8.99	216	A/Fan*			
	182	124	1.4	9.89	203	A/Fan*			
	221	98.2	1.9	8.15	260	A/Fan*	**SK 8207 - 447/9T**	1431	144
	208	104	1.9	8.66	228	A/Fan*			
	176	127	1.6	10.25	243	A/Fan*			
	165	135	1.6	10.89	228	A/Fan*			
	140	154	1.4	12.83	243	A/Fan*			
	132	164	1.4	13.63	214	A/Fan*			
	249	88.5	2.9	7.24	362	---	**SK 9207 - 447/9T**	2165	150
	226	98.2	2.8	7.96	314	A/Fan*			
	198	110	2.5	9.10	314	A/Fan*			
	180	121	2.4	10.00	294	A/Fan*			
	158	138	2.1	11.39	314	A/Fan*			
	144	155	2.0	12.52	277	A/Fan*			
	125	172	1.8	14.37	277	A/Fan*			
	114	194	1.7	15.79	262	A/Fan*			
	99	220	1.5	18.14	262	A/Fan*			
	90	251	1.4	19.94	235	A/Fan*			
	221	99.1	3.0	8.15	382	---	**SK 10207 - 447/9T**	2383	156
	202	109	2.9	8.93	334	A/Fan*			
	176	126	2.5	10.25	356	---			
	160	140	2.4	11.22	334	A/Fan*			
	140	159	2.1	12.83	356	---			
	128	169	2.1	14.05	314	A/Fan*			
	111	198	1.8	16.19	314	A/Fan*			
	102	211	1.8	17.72	297	A/Fan*			
	88	254	1.5	20.44	297	A/Fan*			
	80	270	1.5	22.38	267	A/Fan*			
	114	192	3.0	15.83	315	A/Fan	**SK 11207 - 447/9T**	3064	162
	97	224	2.6	18.50	315	A/Fan			
	89	246	2.5	20.25	285	A/Fan			

350 hp Parallel Drives n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
350	81	272	2.1	22.32	239	A/Fan*	**SK 11307 - 447/9T**	3219	162
	69	320	1.9	26.09	230	B/Fan*			
	63	349	1.9	28.56	214	B/Fan*			
	56	391	1.5	31.90	222	B/Fan*			
	52	427	1.5	34.93	206	B/Fan*			
	70	318	2.6	25.87	294	A/Fan*	**SK 12307 - 447/9T**	4652	168
	64	345	2.6	28.22	273	A/Fan*			
	57	381	2.1	31.82	306	A/Fan*			
	52	414	2.1	34.71	283	A/Fan*			
	44	516	1.6	40.58	283	A/Fan*			
	41	528	1.7	44.26	264	A/Fan*			
	36	615	1.3	50.01	273	A/Fan*			
	33	669	1.3	54.55	247	A/Fan*			
	69	318	2.6	25.92	381	---	**SK 13307 - 447/9T**	6702	174
	64	345	2.6	28.28	353	---			
	56	400	2.0	31.91	366	---			
	52	414	2.1	34.81	353	---			
	44	516	1.6	41.20	353	---			
	40	560	1.6	44.94	328	A/Fan			
	36	615	1.3	50.17	328	A/Fan			
	28	789	2.5	63.82	435	---	**SK 15307 - 447/9T**	10362	180
	26	859	2.5	69.62	408	---			
	22	1030	1.8	80.10	396	---			
	21	1060	1.9	87.37	373	---			
	18	1230	1.6	102.20	384	---			
	16	1340	1.6	111.48	353	---			
400	251	101	1.4	7.16	250	A/Fan*	**SK 7207 - 447/9T**	1301	138
	229	112	1.4	7.87	216	A/Fan*			
	221	117	1.6	8.15	260	A/Fan*	**SK 8207 - 447/9T**	1431	144
	208	124	1.6	8.66	228	A/Fan*			
	176	145	1.4	10.25	243	A/Fan*			
	165	155	1.4	10.89	228	A/Fan*			
	249	103	2.5	7.24	362	A/Fan*	**SK 9207 - 447/9T**	2165	150
	226	110	2.5	7.96	314	A/Fan*			
	198	130	2.1	9.10	314	A/Fan*			
	180	139	2.1	10.00	294	A/Fan*			
	158	161	1.8	11.39	314	A/Fan*			
	144	172	1.8	12.52	277	A/Fan*			
	125	206	1.5	14.37	277	A/Fan*			
	114	220	1.5	15.79	262	A/Fan*			

400 hp
Parallel Drives
n_1 = 1800 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
400	221	114	2.6	8.15	382	A/Fan*	SK 10207 - 447/9T	2383	156
	202	126	2.5	8.93	334	A/Fan*			
	176	143	2.2	10.25	356	A/Fan*			
	160	159	2.1	11.22	334	A/Fan*			
	140	176	1.9	12.83	356	A/Fan*			
	128	197	1.8	14.05	314	A/Fan*			
	111	224	1.6	16.19	314	A/Fan*			
	102	252	1.5	17.72	297	A/Fan*			
	88	293	1.3	20.44	297	A/Fan*			
	124	202	2.7	14.46	332	A/Fan*	SK 11207 - 447/9T	3064	162
	114	221	2.6	15.83	315	A/Fan*			
	97	265	2.2	18.50	315	A/Fan*			
	89	280	2.2	20.25	285	A/Fan*			
	81	317	1.8	22.32	239	B/Fan*	SK 11307 - 447/9T	3219	162
	69	358	1.7	26.09	230	B/Fan*			
	63	390	1.7	28.56	214	B/Fan*			
	56	451	1.3	31.90	222	B/Fan*			
	52	493	1.3	34.93	206	B/Fan*			
	81	309	2.8	22.13	306	A/Fan*	SK 12307 - 447/9T	4652	168
	70	359	2.3	25.87	294	A/Fan*			
	64	389	2.3	28.22	273	B/Fan*			
	57	444	1.8	31.82	306	A/Fan*			
	52	483	1.8	34.71	283	A/Fan*			
	44	589	1.4	40.58	283	A/Fan*			
	41	597	1.5	44.26	264	B/Fan*			
	82	309	2.8	21.90	397	A/Fan	SK 13307 - 447/9T	6702	174
	69	359	2.3	25.92	381	A/Fan			
	64	389	2.3	28.28	353	A/Fan			
	56	444	1.8	31.91	366	A/Fan			
	52	483	1.8	34.81	353	A/Fan			
	44	589	1.4	41.20	353	A/Fan			
	40	641	1.4	44.94	328	A/Fan			
	36	705	2.7	50.02	484	---	SK 15307 - 447/9T	10362	180
	33	766	2.7	54.56	450	---			
	28	897	2.2	63.82	435	---			
	26	975	2.2	69.62	408	---			
	22	1160	1.6	80.10	396	A/Fan			
	21	1190	1.7	87.37	373	A/Fan			
	18	1410	1.4	102.20	384	A/Fan			
	16	1530	1.4	111.48	353	A/Fan			

450 hp Parallel Drives n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
450	221	125	1.5	8.15	260	A/Fan*	**SK 8207 - 447/9T**	1431	144
	208	132	1.5	8.66	228	B/Fan*			
	249	112	2.3	7.24	362	A/Fan*	**SK 9207 - 447/9T**	2165	150
	226	125	2.2	7.96	314	A/Fan*			
	198	144	1.9	9.10	314	A/Fan*			
	180	162	1.8	10.00	294	A/Fan*			
	158	181	1.6	11.39	314	A/Fan*			
	144	193	1.6	12.52	277	A/Fan*			
	125	221	1.4	14.37	277	A/Fan*			
	114	254	1.3	15.79	262	A/Fan*			
	221	129	2.3	8.15	382	A/Fan*	**SK 10207 - 447/9T**	2383	156
	202	143	2.2	8.93	334	A/Fan*			
	176	158	2.0	10.25	356	A/Fan*			
	160	176	1.9	11.22	334	A/Fan*			
	140	196	1.7	12.83	356	A/Fan*			
	128	222	1.6	14.05	314	A/Fan*			
	111	256	1.4	16.19	314	A/Fan*			
	102	271	1.4	17.72	297	A/Fan*			
	155	184	2.8	11.61	374	A/Fan*	**SK 11207 - 447/9T**	3064	162
	142	201	2.7	12.71	352	A/Fan*			
	124	227	2.4	14.46	332	A/Fan*			
	114	250	2.3	15.83	315	A/Fan*			
	97	291	2.0	18.50	315	A/Fan*			
	89	324	1.9	20.25	285	A/Fan*			
	81	357	1.6	22.32	239	B/Fan*	**SK 11307 - 447/9T**	3219	162
	69	404	1.5	26.09	230	B/Fan*			
	63	442	1.5	28.56	214	B/Fan*			
	98	286	2.8	18.34	402	A/Fan	**SK 12207 - 447/9T**	4420	168
	90	311	2.8	20.01	364	A/Fan			
	81	345	2.5	22.13	306	B/Fan*	**SK 12307 - 447/9T**	4652	168
	70	413	2.0	25.87	294	B/Fan*			
	64	449	2.0	28.22	273	B/Fan*			
	57	500	1.6	31.82	306	B/Fan*			
	52	543	1.6	34.71	283	B/Fan*			
	98	286	2.8	18.38	529	---	**SK 13207 - 447/9T**	6217	174
	90	311	2.8	20.05	476	---			
	82	345	2.5	21.90	397	A/Fan*	**SK 13307 - 447/9T**	6702	174
	69	413	2.0	25.92	381	A/Fan*			
	64	449	2.0	28.28	353	A/Fan*			
	56	500	1.6	31.91	366	A/Fan*			
	52	543	1.6	34.81	353	A/Fan*			

450 hp - 500 hp Parallel Drives $n_1 = 1800$ rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
450	36	792	2.4	50.02	484	---	**SK 15307 - 447/9T**	10362	180
	33	861	2.4	54.56	450	---			
	28	1040	1.9	63.82	435	A/Fan*			
	26	1070	2.0	69.62	408	A/Fan*			
	22	1320	1.4	80.10	396	A/Fan*			
	21	1350	1.5	87.37	373	A/Fan*			
500	221	143	1.3	8.15	260	B/Fan*	**SK 8207 - 585/6**	1431	144
	208	152	1.3	8.66	228	B/Fan*			
	249	129	2.0	7.24	362	A/Fan*	**SK 9207 - 585/6**	2165	150
	226	137	2.0	7.96	314	A/Fan*			
	198	161	1.7	9.10	314	A/Fan*			
	180	172	1.7	10.00	294	B/Fan*			
	158	194	1.5	11.39	314	A/Fan*			
	144	220	1.4	12.52	277	B/Fan*			
	221	142	2.1	8.15	382	A/Fan*	**SK 10207 - 585/6**	2383	156
	202	158	2.0	8.93	334	A/Fan*			
	176	175	1.8	10.25	356	A/Fan*			
	160	196	1.7	11.22	334	A/Fan*			
	140	223	1.5	12.83	356	A/Fan*			
	128	253	1.4	14.05	314	A/Fan*			
	182	176	2.9	9.91	374	A/Fan*	**SK 11207 - 585/6**	3064	162
	155	205	2.5	11.61	374	A/Fan*			
	142	227	2.4	12.71	352	A/Fan*			
	124	259	2.1	14.46	332	A/Fan*			
	114	274	2.1	15.83	315	A/Fan*			
	97	324	1.8	18.50	315	A/Fan*			
	89	362	1.7	20.25	285	B/Fan*			
	81	381	1.5	22.32	239	B/Fan*	**SK 11307 - 585/6**	3219	162
	69	467	1.3	26.09	230	B/Fan*			
	63	510	1.3	28.56	214	C/Fan*			
	98	320	2.5	18.34	402	A/Fan	**SK 12207 - 585/6**	4420	168
	90	348	2.5	20.01	364	A/Fan			
	81	393	2.2	22.13	306	B/Fan*	**SK 12307 - 585/6**	4652	168
	70	458	1.8	25.87	294	B/Fan*			
	64	498	1.8	28.22	273	B/Fan*			
	57	572	1.4	31.82	306	B/Fan*			
	52	621	1.4	34.71	283	B/Fan*			
	98	320	2.5	18.38	529	---	**SK 13207 - 585/6**	6217	174
	90	348	2.5	20.05	476	A/Fan*			

500 hp - 600 hp Parallel Drives $n_1 = 1800$ rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
500	82	393	2.2	21.90	397	A/Fan*	**SK 13307 - 585/6**	6702	174
	69	458	1.8	25.92	381	A/Fan*			
	64	498	1.8	28.28	353	B/Fan*			
	56	572	1.4	31.91	366	B/Fan*			
	52	621	1.4	34.81	353	B/Fan*			
	45	705	2.8	40.18	502	---	**SK 15307 - 585/6**	10362	180
	41	766	2.8	43.83	466	A/Fan*			
	36	865	2.2	50.02	484	A/Fan*			
	33	939	2.2	54.56	450	A/Fan*			
	28	1100	1.8	63.82	435	A/Fan*			
	26	1190	1.8	69.62	408	A/Fan*			
	22	1430	1.3	80.10	396	A/Fan*			
	21	1560	1.3	87.37	373	B/Fan*			
600	249	151	1.7	7.24	362	B/Fan*	**SK 9207 - 586/7**	2165	150
	226	172	1.6	7.96	314	B/Fan*			
	198	196	1.4	9.10	314	B/Fan*			
	180	208	1.4	10.00	294	B/Fan*			
	221	175	1.7	8.15	382	B/Fan*	**SK 10207 - 586/7**	2383	156
	202	185	1.7	8.93	334	B/Fan*			
	176	210	1.5	10.25	356	B/Fan*			
	160	239	1.4	11.22	334	B/Fan*			
	250	151	2.9	7.19	460	A/Fan*	**SK 11207 - 586/7**	3064	162
	229	166	2.9	7.87	427	A/Fan*			
	199	192	2.5	9.05	399	B/Fan*			
	182	204	2.5	9.91	374	B/Fan*			
	155	245	2.1	11.61	374	B/Fan*			
	142	272	2.0	12.71	352	B/Fan*			
	124	303	1.8	14.46	332	B/Fan*			
	114	339	1.7	15.83	315	B/Fan*			
	97	389	1.5	18.50	315	B/Fan*			
	89	440	1.4	20.25	285	B/Fan*			
	155	247	2.9	11.60	478	A/Fan*	**SK 12207 - 586/7**	4420	168
	142	264	2.9	12.66	450	A/Fan*			
	125	298	2.6	14.39	478	A/Fan*			
	115	324	2.6	15.69	425	A/Fan*			
	98	381	2.1	18.34	402	B/Fan*			
	90	414	2.1	20.01	364	B/Fan*			
	81	455	1.9	22.13	306	C/Fan*	**SK 12307 - 586/7**	4652	168
	70	551	1.5	25.87	294	C/Fan*			
	64	597	1.5	28.22	273	C/Fan*			

600 hp - 700 hp Parallel Drives n_1 = 1800 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
600	145	264	2.9	12.40	595	A/Fan*	**SK 13207 - 586/7**	6217	174
	126	298	2.6	14.24	560	A/Fan*			
	116	324	2.6	15.53	529	A/Fan*			
	98	381	2.1	18.38	529	A/Fan*			
	90	414	2.1	20.05	476	B/Fan*			
	82	455	1.9	21.90	397	B/Fan*	**SK 13307 - 586/7**	6702	174
	69	551	1.5	25.92	381	B/Fan*			
	64	597	1.5	28.28	353	B/Fan*			
	57	656	2.9	31.49	568	A/Fan*	**SK 15307 - 586/7**	10362	180
	52	738	2.8	34.35	522	A/Fan*			
	45	859	2.3	40.18	502	A/Fan*			
	41	932	2.3	43.83	466	B/Fan*			
	36	1060	1.8	50.02	484	A/Fan*			
	33	1150	1.8	54.56	450	B/Fan*			
	28	1320	1.5	63.82	435	B/Fan*			
	26	1430	1.5	69.62	408	B/Fan*			
700	249	172	1.5	7.24	362	B/Fan*	**SK 9207 - 587/8**	2165	150
	226	196	1.4	7.96	314	B/Fan*			
	221	198	1.5	8.15	382	B/Fan*	**SK 10207 - 587/8**	2383	156
	202	225	1.4	8.93	334	B/Fan*			
	312	142	2.8	5.77	498	B/Fan*	**SK 11207 - 587/8**	3064	162
	285	156	2.8	6.31	427	B/Fan*			
	250	175	2.5	7.19	460	B/Fan*			
	229	192	2.5	7.87	427	B/Fan*			
	199	219	2.2	9.05	399	B/Fan*			
	182	243	2.1	9.91	374	B/Fan*			
	155	286	1.8	11.61	374	B/Fan*			
	142	320	1.7	12.71	352	B/Fan*			
	124	363	1.5	14.46	332	B/Fan*			
	114	384	1.5	15.83	315	B/Fan*			
	198	222	3.0	9.10	546	A/Fan*	**SK 12207 - 587/8**	4420	168
	181	242	3.0	9.93	478	B/Fan*			
	155	287	2.5	11.60	478	B/Fan*			
	142	306	2.5	12.66	450	B/Fan*			
	125	352	2.2	14.39	478	B/Fan*			
	115	383	2.2	15.69	425	B/Fan*			
	98	444	1.8	18.34	402	B/Fan*			
	90	483	1.8	20.01	364	B/Fan*			
	81	540	1.6	22.13	306	C/Fan*	**SK 12307 - 587/8**	4652	168
	70	635	1.3	25.87	294	C/Fan*			

700 hp - 800 hp Parallel Drives n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
700	194	230	2.9	9.26	680	A/Fan*	**SK 13207 - 587/8**	3219	174
	178	250	2.9	10.11	635	A/Fan*			
	158	276	2.6	11.37	635	A/Fan*			
	145	306	2.5	12.40	595	A/Fan*			
	126	352	2.2	14.24	560	B/Fan*			
	116	383	2.2	15.53	529	B/Fan*			
	98	444	1.8	18.38	529	B/Fan*			
	90	483	1.8	20.05	476	B/Fan*			
	82	540	1.6	21.90	397	C/Fan*	**SK 13307 - 587/8**	6702	174
	57	760	2.5	31.49	568	B/Fan*	**SK 15307 - 587/8**	10362	
	52	861	2.4	34.35	522	B/Fan*			
	45	987	2.0	40.18	502	B/Fan*			
	41	1070	2.0	43.83	466	B/Fan*			
	36	1190	1.6	50.02	484	B/Fan*			
	33	1380	1.5	54.56	450	B/Fan*			
800	221	228	1.3	8.15	382	B/Fan*	**SK 10207 - 587/8**	2383	156
	312	159	2.5	5.77	498	B/Fan*	**SK 11207 - 587/8**	3064	162
	285	174	2.5	6.31	427	B/Fan*			
	250	199	2.2	7.19	460	B/Fan*			
	229	219	2.2	7.87	427	B/Fan*			
	199	253	1.9	9.05	399	B/Fan*			
	182	284	1.8	9.91	374	B/Fan*			
	155	321	1.6	11.61	374	B/Fan*			
	142	362	1.5	12.71	352	B/Fan*			
	124	419	1.3	14.46	332	C			
	198	257	2.6	9.10	546	B/Fan*	**SK 12207 - 587/8**	4420	168
	181	279	2.6	9.93	478	B/Fan*			
	155	326	2.2	11.60	478	B/Fan*			
	142	348	2.2	12.66	450	B/Fan*			
	125	408	1.9	14.39	478	B/Fan*			
	115	443	1.9	15.69	425	B/Fan*			
	98	500	1.6	18.34	402	B/Fan*			
	90	543	1.6	20.01	364	B/Fan*			
	81	617	1.4	22.13	306	D	**SK 12307 - 587/8**	4652	168
	194	257	2.6	9.26	680	B/Fan*	**SK 13207 - 587/8**	6217	174
	178	279	2.6	10.11	635	B/Fan*			
	158	326	2.2	11.37	635	B/Fan*			
	145	348	2.2	12.40	595	B/Fan*			
	126	408	1.9	14.24	560	B/Fan*			
	116	443	1.9	15.53	529	B/Fan*			
	98	500	1.6	18.38	529	B/Fan*			
	90	543	1.6	20.05	476	C/Fan*			
	82	617	1.4	21.90	397	C/Fan*	**SK 13307 - 587/8**	6702	174

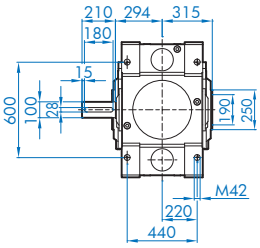
800 hp - 900 hp Parallel Drives n_1 = 1800 rpm

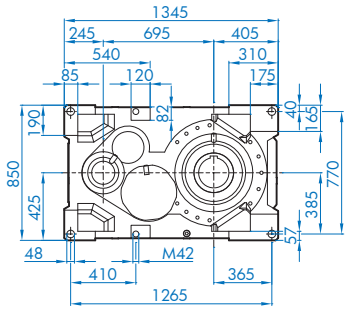
DRIVESYSTEMS

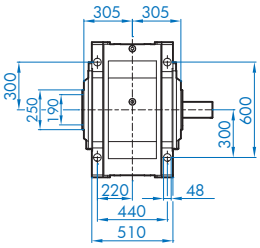
Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
800	82	623	2.9	21.84	622	B/Fan*	**SK 15307 - 587/8**	10362	180
	70	731	2.7	25.54	568	B/Fan*			
	65	766	2.8	27.86	522	B/Fan*			
	57	905	2.1	31.49	568	B/Fan*			
	52	984	2.1	34.35	522	B/Fan*			
	45	1100	1.8	40.18	502	C/Fan*			
	41	1260	1.7	43.83	466	C/Fan*			
	36	1360	1.4	50.02	484	C/Fan*			
	33	1480	1.4	54.56	450	C/Fan*			
900	312	181	2.2	5.77	498	B/Fan*	**SK 11207**	3064	162
	285	198	2.2	6.31	427	C/Fan*			
	250	231	1.9	7.19	460	B/Fan*			
	229	253	1.9	7.87	427	C/Fan*			
	199	282	1.7	9.05	399	C/Fan*			
	182	320	1.6	9.91	374	C			
	155	367	1.4	11.61	374	C			
	142	389	1.4	12.71	352	C			
	248	232	2.7	7.27	588	B/Fan*	**SK 12207**	4420	168
	227	252	2.7	7.93	546	B/Fan*			
	198	290	2.3	9.10	546	B/Fan*			
	181	315	2.3	9.93	478	B/Fan*			
	155	358	2.0	11.60	478	B/Fan*			
	142	403	1.9	12.66	450	B/Fan*			
	125	456	1.7	14.39	478	B/Fan*			
	115	496	1.7	15.69	425	C/Fan*			
	98	572	1.4	18.34	402	C/Fan*			
	90	620	1.4	20.01	364	C			
	246	232	2.7	7.31	793	A/Fan*	**SK 13207**	6217	174
	226	252	2.7	7.98	732	B/Fan*			
	194	290	2.3	9.26	680	B/Fan*			
	178	315	2.3	10.11	635	B/Fan*			
	158	358	2.0	11.37	635	B/Fan*			
	145	383	2.0	12.40	595	C/Fan*			
	126	456	1.7	14.24	560	C/Fan*			
	116	496	1.7	15.53	529	C/Fan*			
	98	572	1.4	18.38	529	C/Fan*			
	90	620	1.4	20.05	476	D/Fan*			
	82	695	2.6	21.84	622	B/Fan*	**SK 15307**	10362	180
	70	822	2.4	25.54	568	C/Fan*			
	65	859	2.5	27.86	522	C/Fan*			
	57	1000	1.9	31.49	568	C/Fan*			
	52	1090	1.9	34.35	522	C/Fan*			
	45	1230	1.6	40.18	502	C/Fan*			
	41	1430	1.5	43.83	466	D/Fan*			

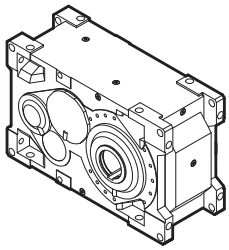
Gearmotors & C-Face Reducers

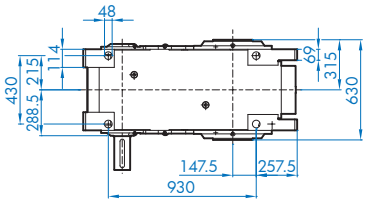
- SK 7207 / 7307 Dimensions
- SK 8207 / 8307 Dimensions
- SK 9207 / 9307 Dimensions
- SK 10207 / 10307 Dimensions
- SK 11207 / 11307 Dimensions
- SK 12207 / 12307 Dimensions
- SK 13207 / 13307 Dimensions
- SK 15207 / 15307 Dimensions
- Optional Shaft Dimensions
- Accessory Option Dimensions

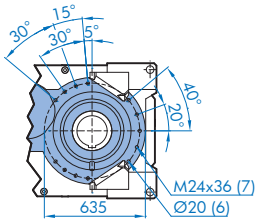












DRIVESYSTEMS

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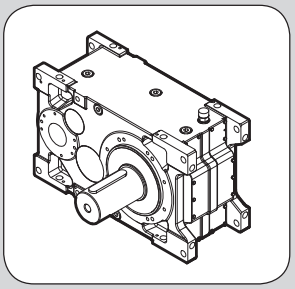
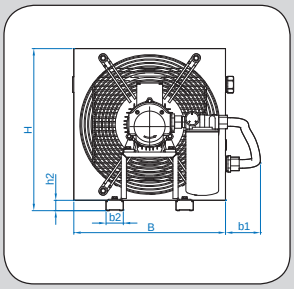
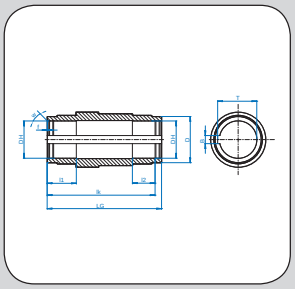
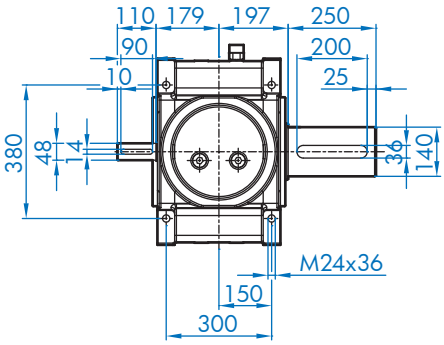
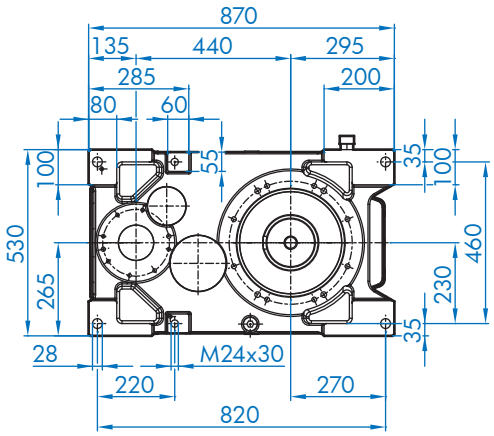


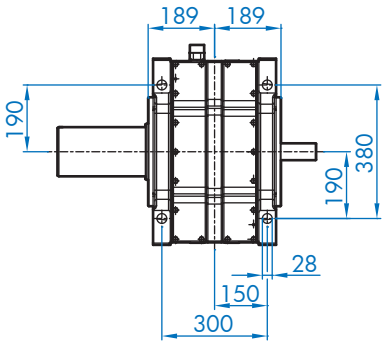


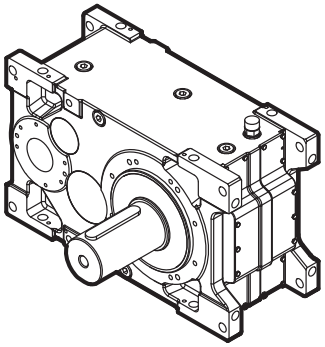


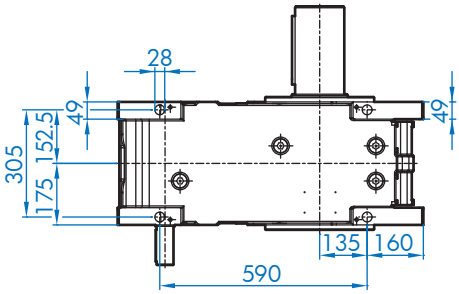
SK 7207/7307 V

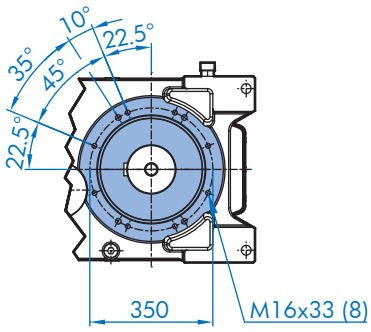




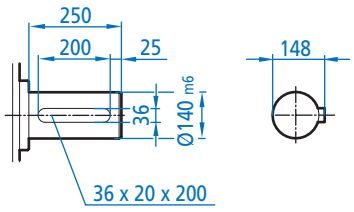




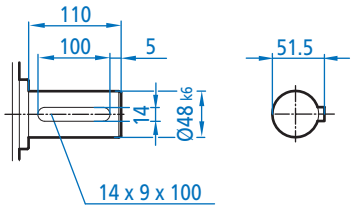




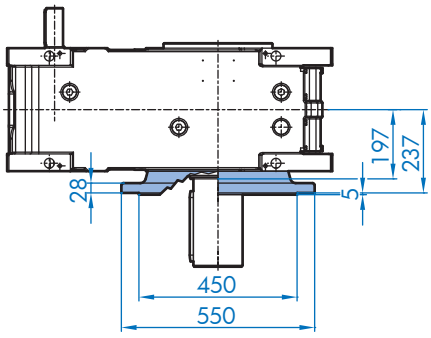
SK 7207/7307 V - Output Shaft Detail

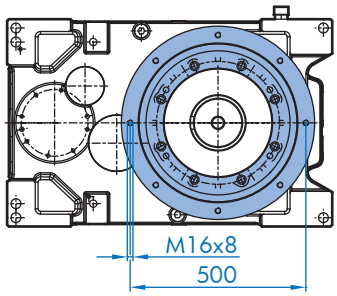


SK 7207/7307 V - Input Shaft Detail

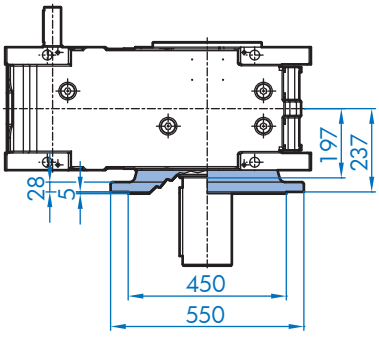


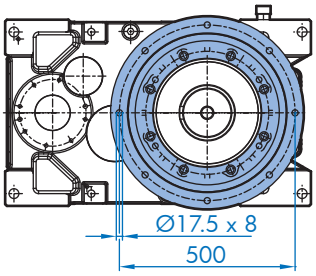
SK 7207/7307 VF



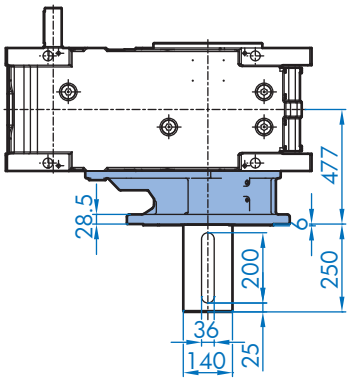


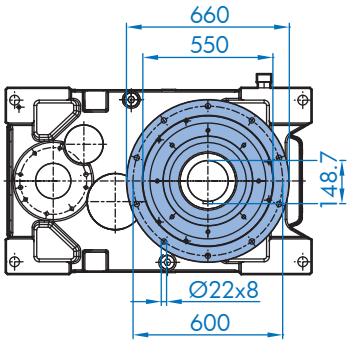
SK 7207/7307 VFK



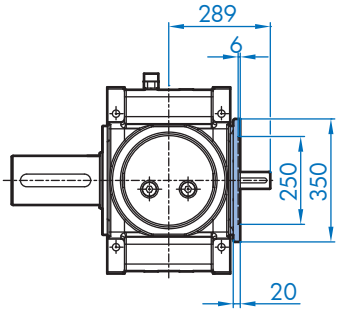


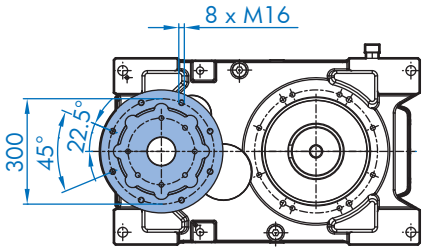
SK 7207/7307 VL2/VL3



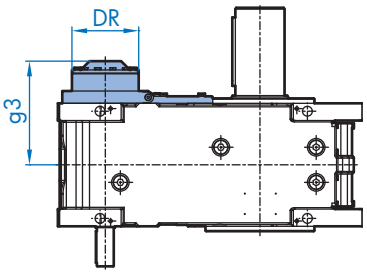


SK 7207/7307 F1 - Input Flange

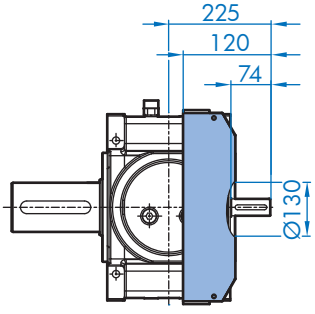


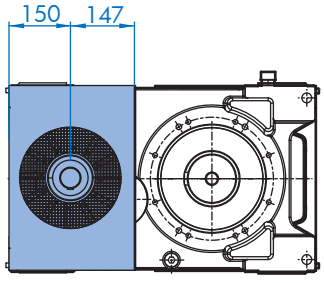


SK 7207/7307 R - Backstop



SK 7207/7307 FAN



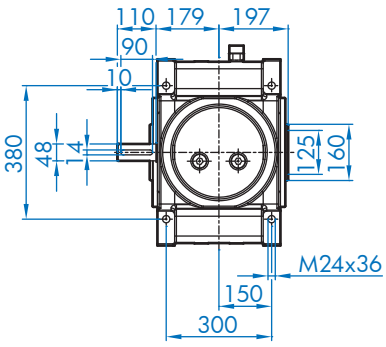


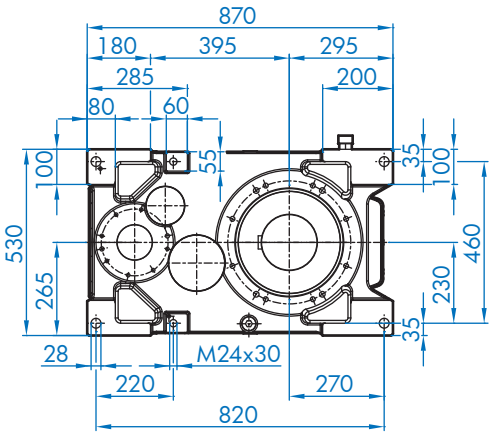
R	iN	DR	g3
SK7207	7.1-25	190	295
SK7307	28-355	175	288

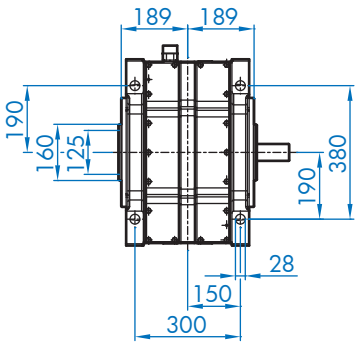
Parallel Drives
SK 7207 A
SK 7307 A

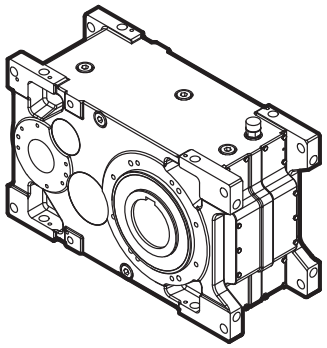
DRIVESYSTEMS

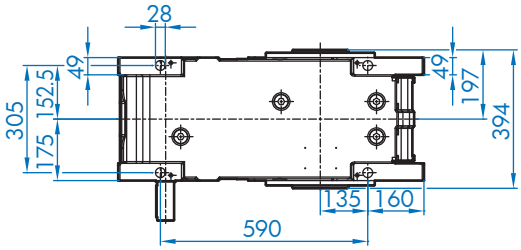
SK 7207/7307 A

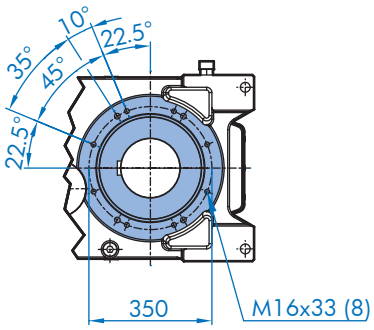




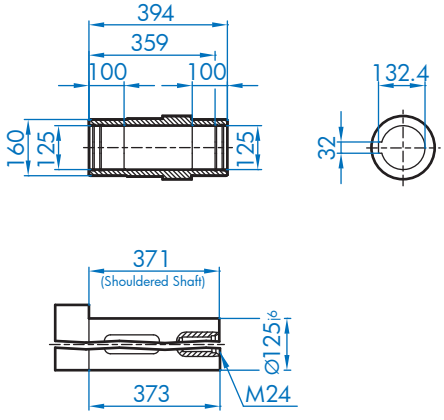






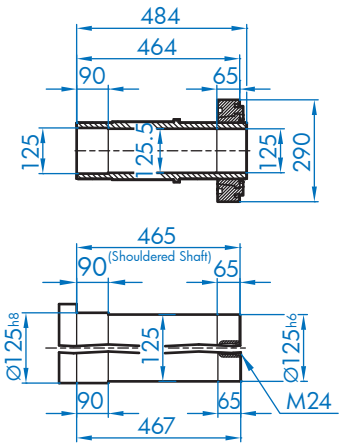


SK 7207/7307 A



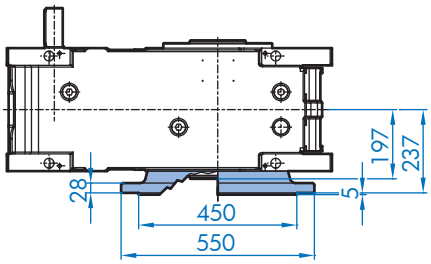
customer shaft recommendation

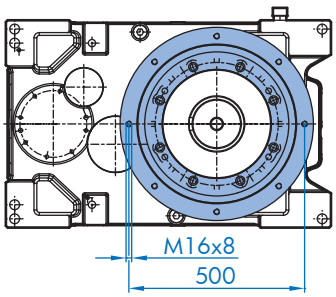
SK 7207/7307 AS



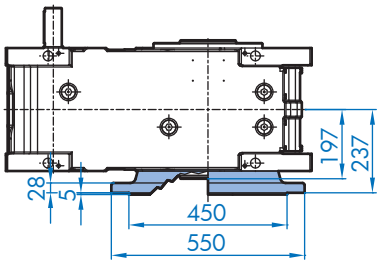
customer shaft recommendation

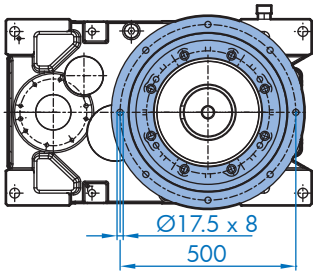
SK 7207/7307 AF



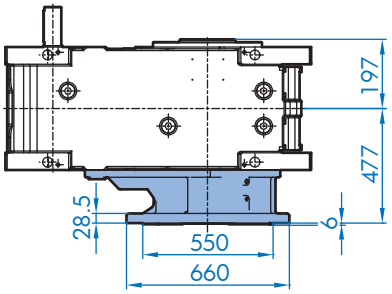


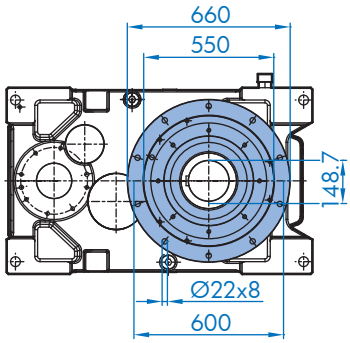
SK 7207/7307 AFK



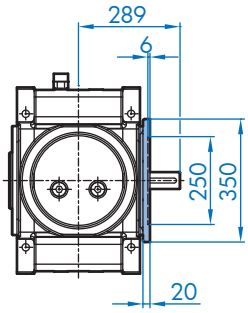


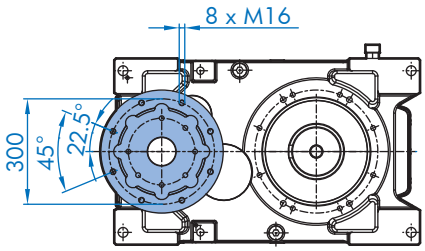
SK 7207/7307 VL2/VL3



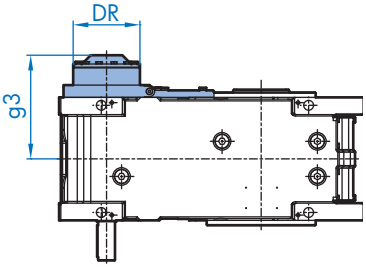


SK 7207/7307 F1 - Input Flange

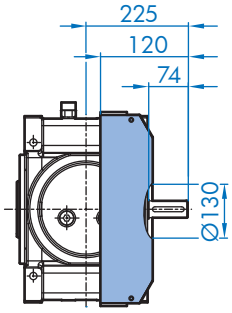


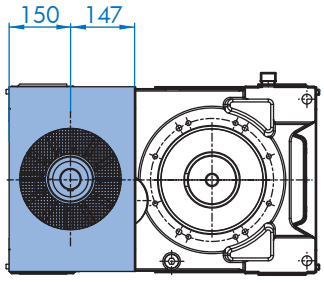


SK 7207/7307 R - Backstop



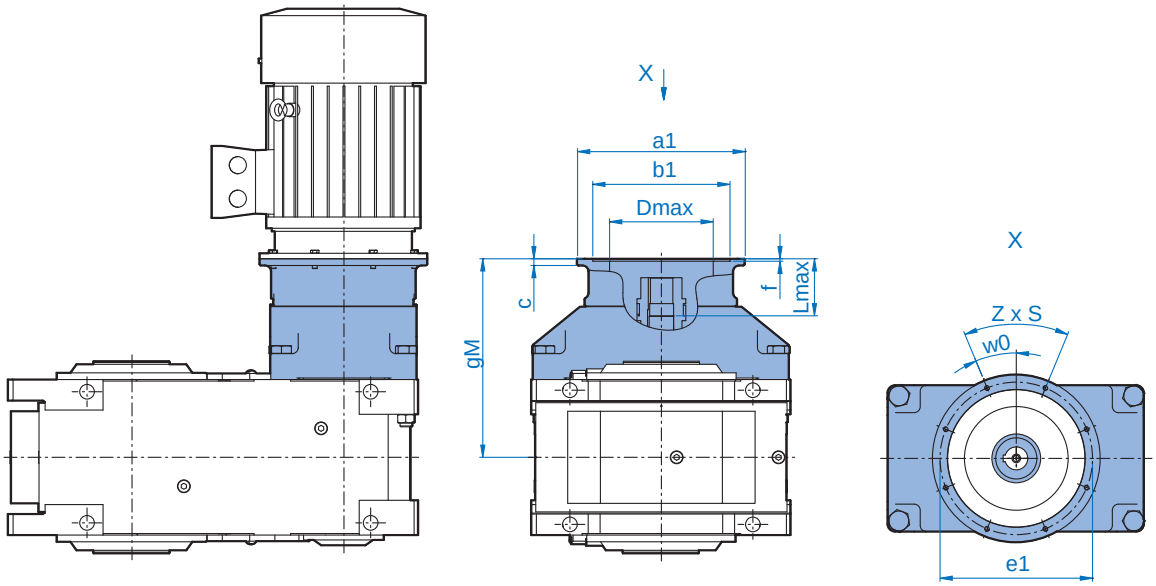
SK 7207/7307 FAN





R	iN	DR	g3
SK7207	7.1-25	190	295
SK7307	28-355	175	288

SK 7207 - SK 7307



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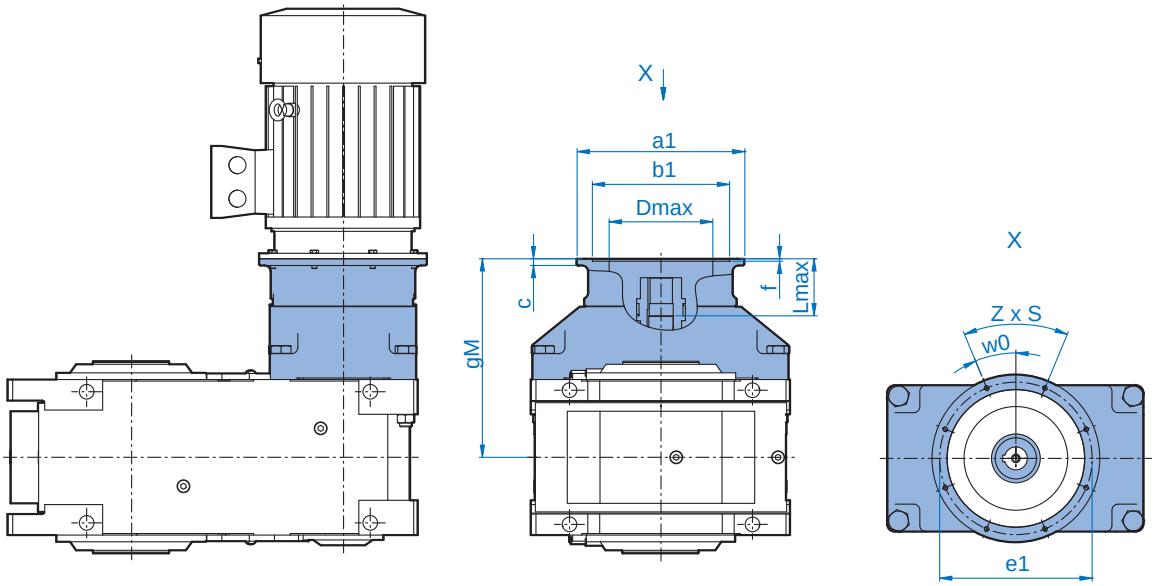
SK 7207	NEMA	254/256 TC	439	350	215.9	184.15	38	4	4 x 1/2-13	45	220	173
		284/286 TC	439	350	266.7	228.6	38	4	4 x 1/2-13	45	220	173
		324/326 TC	439	400	317.5	279.4	51	4	4 x 5/8-11	45	265	184
		364/365 TC	469	450	317.5	279.4	52	4	4 x 5/8-11	45	280	214
		404/405 TC	469	550	317.5	279.4	70	6	4 x 5/8-11	45	330	228
		444/445 TC	469	550	406.4	355.6	102	6	4 x 5/8-11	45	330	260
		447/449 TC	499	660	406.4	355.6	67	6	4 x 5/8-11	45	330	255
SK 7307	NEMA	254/256 TC	439	350	215.9	184.15	38	4	4 x 1/2-13	45	220	173
		284/286 TC	439	350	266.7	228.6	38	4	4 x 1/2-13	45	220	173
		324/326 TC	439	400	317.5	279.4	51	4	4 x 5/8-11	45	265	184
		364/365 TC	469	450	317.5	279.4	52	4	4 x 5/8-11	45	280	214
		404/405 TC	469	550	317.5	279.4	70	6	4 x 5/8-11	45	330	228
		444/445 TC	469	550	406.4	355.6	102	6	4 x 5/8-11	45	330	260
		447/449 TC	499	660	406.4	355.6	67	6	4 x 5/8-11	45	330	255

Parallel Drives
SK 7207/7307 (IEC)

SK 7207 - SK 7307



			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
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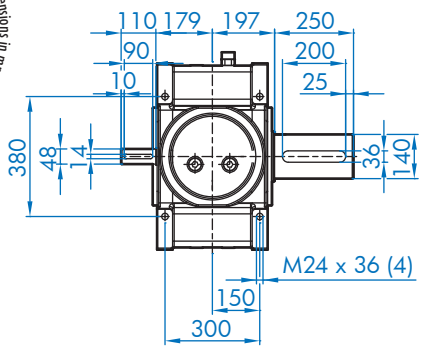
		112	389	250	180	215	11	4	4 x 14.5	0	160	100
		132	409	300	230	265	12	4	4 x 14.5	0	210	120
		160	439	350	250	300	15	6.5	4 x 17.5	45	220	150
		180	439	350	250	300	15	6.5	4 x 17.5	45	220	150
		200	439	400	300	350	17	6.5	4 x 17.5	45	250	150
		225	469	450	350	400	18	6.5	8 x 17.5	22.5	250	180
		250	469	550	450	500	22	8	8 x M16	22.5	250	180
		280	469	550	450	500	22	8	8 x M16	22.5	250	180
		315	499	660	550	600	22	8	8 x 22	22.5	250	210
	TN [2]	315	499	800	680	740	25	8	8 x 22	22.5	250	210
		355	499	900	780	840	25	8	8 x 22	22.5	250	210
SK 7307	IEC	100	389	250	180	215	11	4	4 x 14.5	0	160	100
		112	389	250	180	215	11	4	4 x 14.5	0	160	100
		132	409	300	230	265	12	4	4 x 14.5	0	210	120
		160	439	350	250	300	15	6.5	4 x 17.5	45	220	150
		180	439	350	250	300	15	6.5	4 x 17.5	45	220	150
		200	439	400	300	350	17	6.5	4 x 17.5	45	250	150
		225	469	450	350	400	18	6.5	8 x 17.5	22.5	250	180
		250	469	550	450	500	22	8	8 x M16	22.5	250	180
		280	469	550	450	500	22	8	8 x M16	22.5	250	180
		315	499	660	550	600	22	8	8 x 22	22.5	250	210
	TN [2]	315	499	800	680	740	25	8	8 x 22	22.5	250	210
		355	499	900	780	840	25	8	8 x 22	22.5	250	210

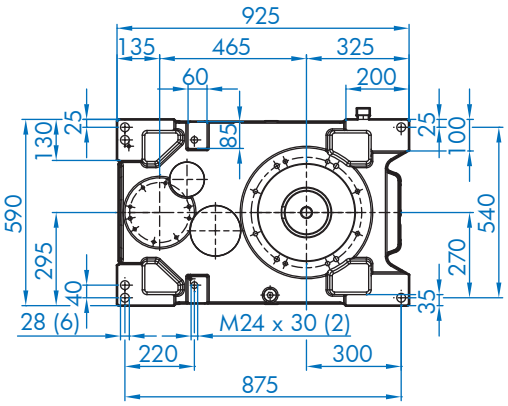
[1] Type designation and dimensions up to 200kW correspond to NORD motors

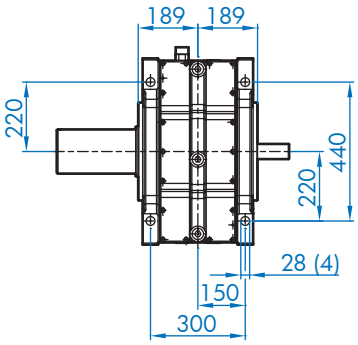
[2] Data for Transnorm motors available on request

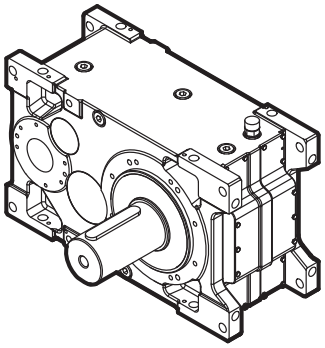
Parallel Drives
SK 8207 V
SK 8307 V

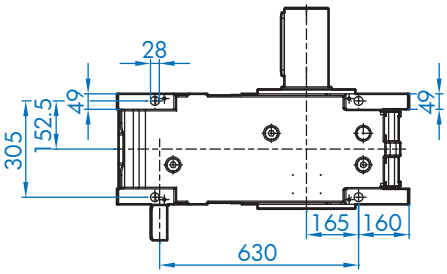
SK 8207/8307 V

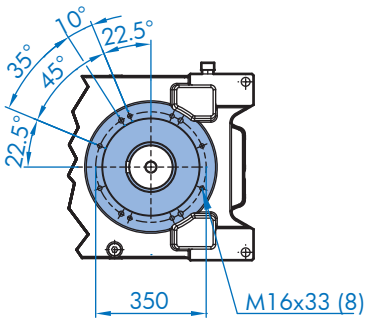




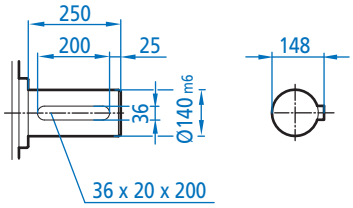




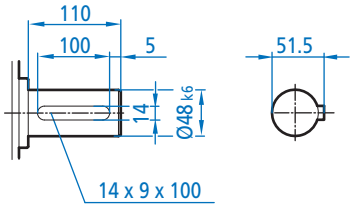




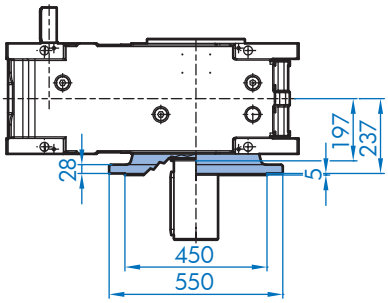
SK 8207/8307 V - Output Shaft Detail

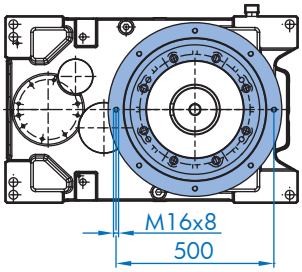


SK 8207/8307 V - Input Shaft Detail

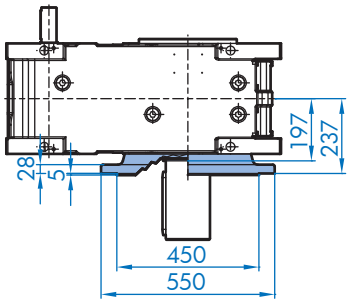


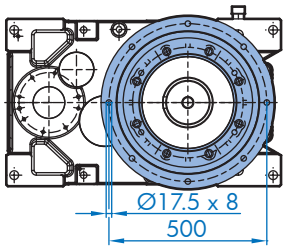
SK 8207/8307 VF



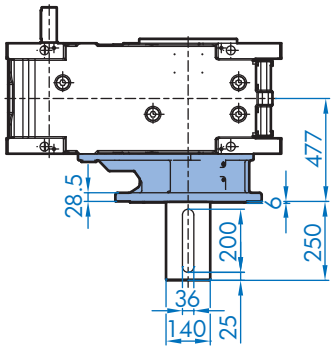


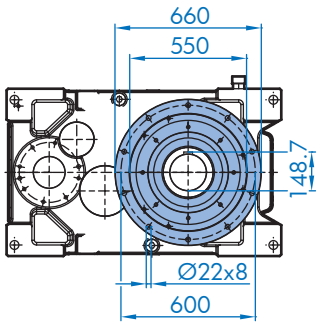
SK 8207/8307 VFK



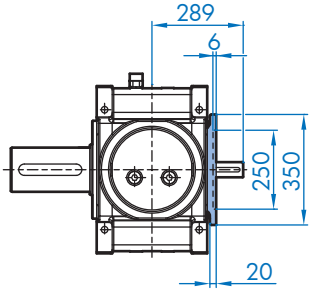


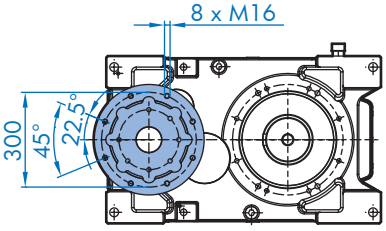
SK 8207/8307 VL2/VL3



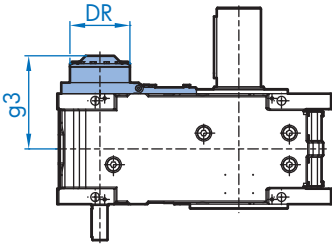


SK 8207/8307 F1 - Input Flange



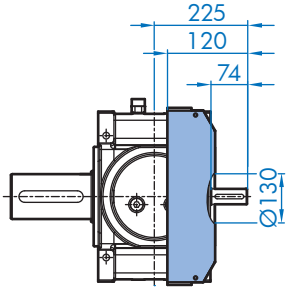


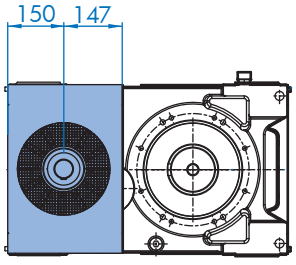
SK 8207/8307 R - Backstop



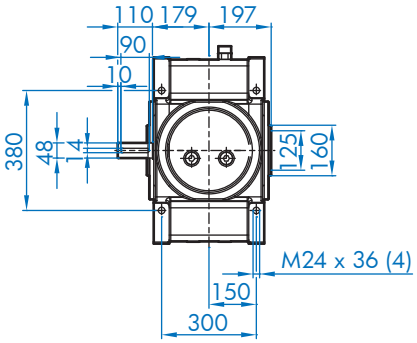
R	iN	DR	g3
SK8207	8-28	190	295
SK8307	31.5-100	175	288

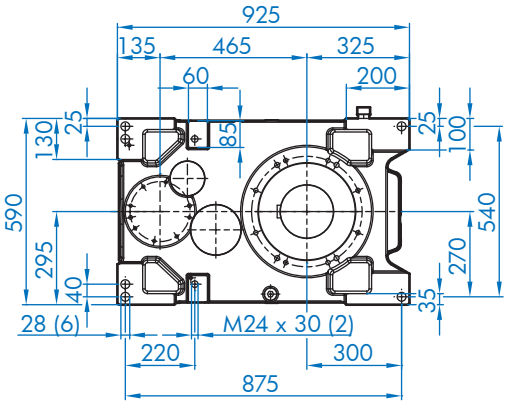
SK 8207/8307 FAN

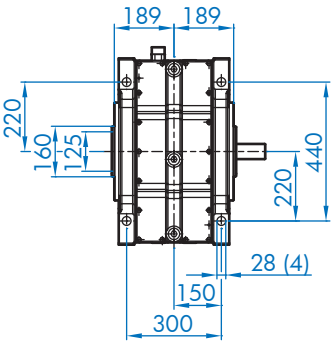


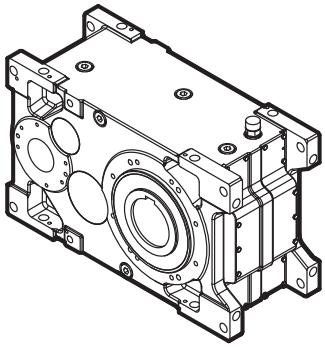


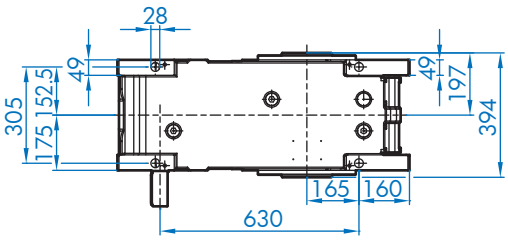
SK 8207/8307 A

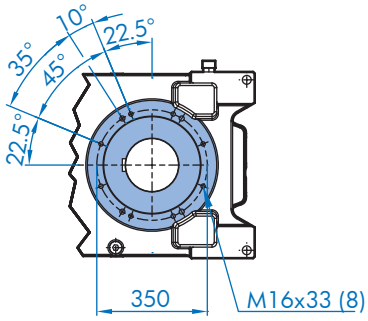




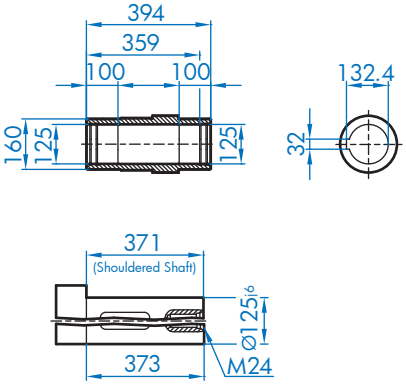






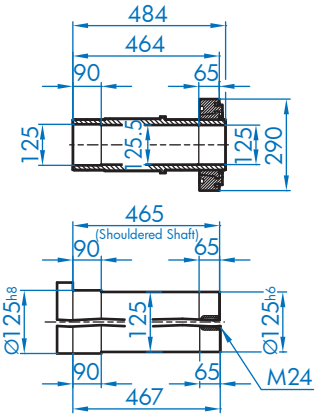


SK 8207/8307 A



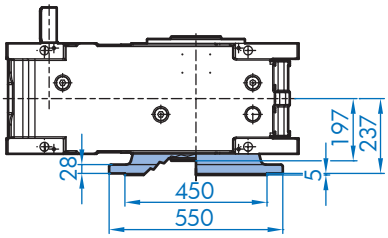
customer shaft recommendation

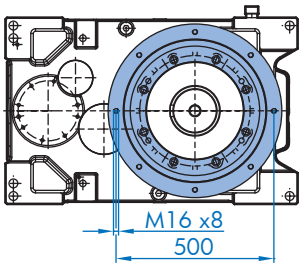
SK 8207/8307 AS



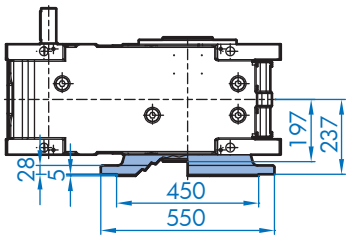
customer shaft recommendation

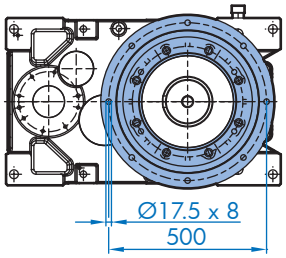
SK 8207/8307 AF



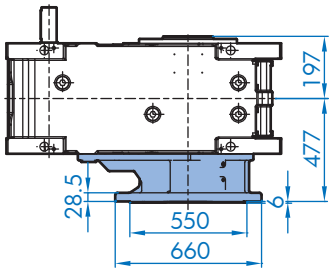


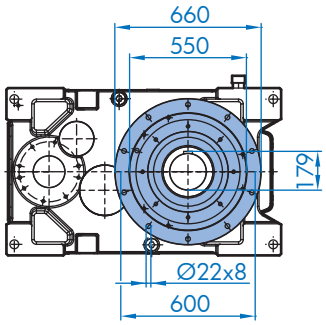
SK 8207/8307 AFK



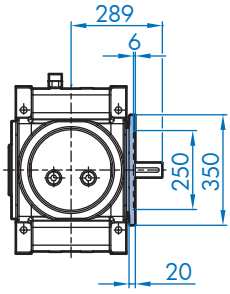


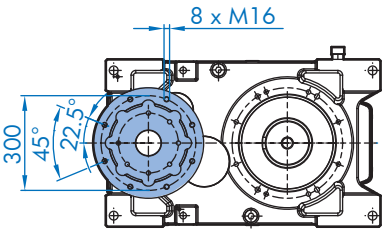
SK 8207/8307 VL2/VL3



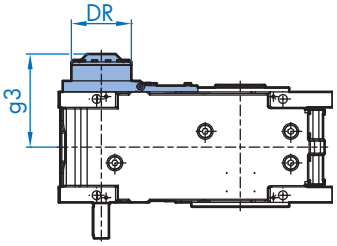


SK 8207/8307 F1 - Input Flange

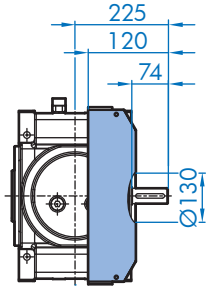


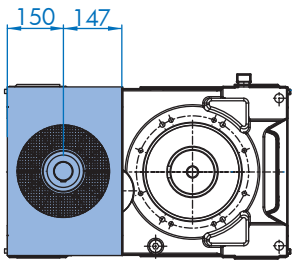


SK 8207/8307 R - Backstop



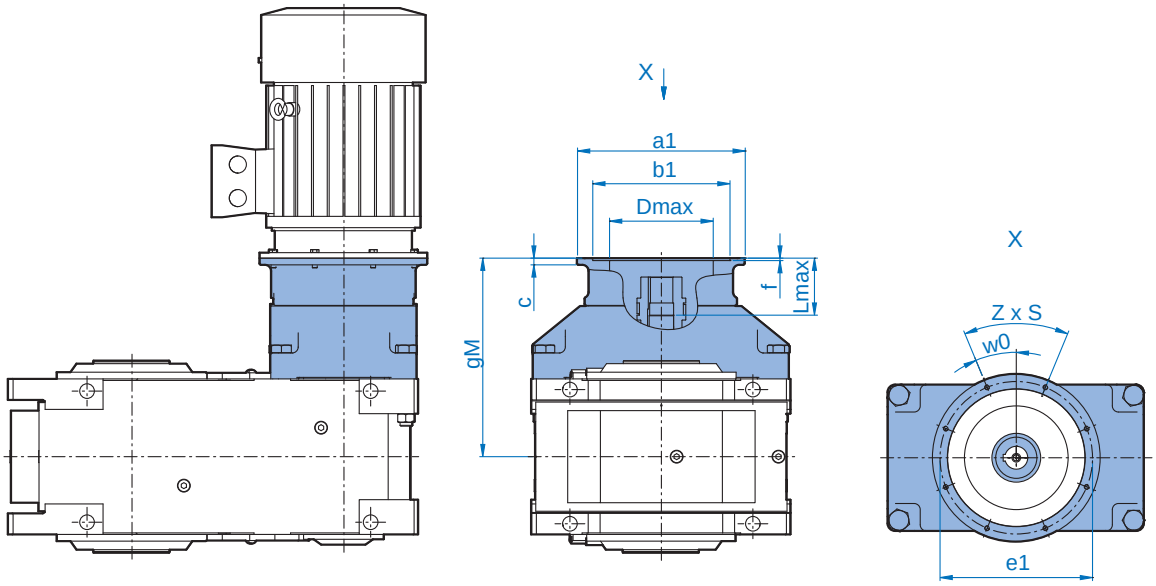
SK 8207/8307 FAN





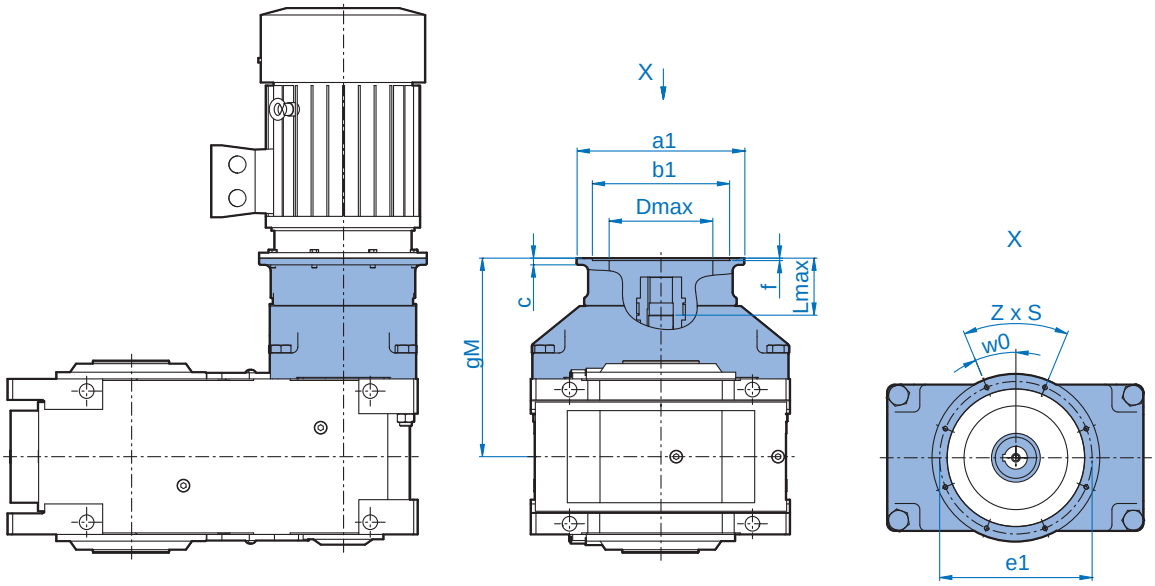
R	iN	DR	g3
SK8207	8-28	190	295
SK8307	31.5-100	175	288

SK 8207 - SK 8307



			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 8207	NEMA	254/256 TC	439	350	215.9	184.15	38	4	4 x 1/2-13	45	220	173
		284/286 TC	439	350	266.7	228.6	38	4	4 x 1/2-13	45	220	173
		324/326 TC	439	400	317.5	279.4	51	4	4 x 5/8-11	45	265	184
		364/365 TC	469	450	317.5	279.4	52	4	4 x 5/8-11	45	280	214
		404/405 TC	469	550	317.5	279.4	70	6	4 x 5/8-11	45	330	228
		444/445 TC	469	550	406.4	355.6	102	6	4 x 5/8-11	45	330	260
		447/449 TC	499	660	406.4	355.6	67	6	4 x 5/8-11	45	330	255
SK 8307	NEMA	254/256 TC	439	350	215.9	184.15	38	4	4 x 1/2-13	45	220	173
		284/286 TC	439	350	266.7	228.6	38	4	4 x 1/2-13	45	220	173
		324/326 TC	439	400	317.5	279.4	51	4	4 x 5/8-11	45	265	184
		364/365 TC	469	450	317.5	279.4	52	4	4 x 5/8-11	45	280	214
		404/405 TC	469	550	317.5	279.4	70	6	4 x 5/8-11	45	330	228
		444/445 TC	469	550	406.4	355.6	102	6	4 x 5/8-11	45	330	260
		447/449 TC	499	660	406.4	355.6	67	6	4 x 5/8-11	45	330	255

SK 8207 - SK 8307



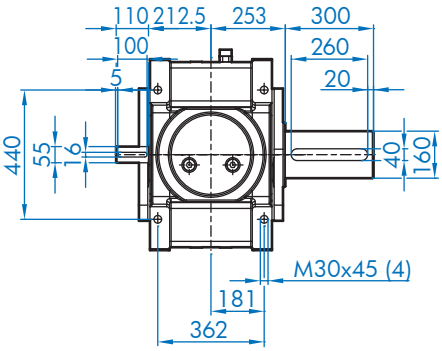
			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 8207	IEC	100	389	250	180	215	11	4	4 x 14.5	0	160	100
		112	389	250	180	215	11	4	4 x 14.5	0	160	100
		132	409	300	230	265	12	4	4 x 14.5	0	210	120
		160	439	350	250	300	15	6.5	4 x 17.5	45	220	150
		180	439	350	250	300	15	6.5	4 x 17.5	45	220	150
		200	439	400	300	350	17	6.5	4 x 17.5	45	250	150
		225	469	450	350	400	18	6.5	8 x 17.5	22.5	250	180
		250	469	550	450	500	22	8	8 x M16	22.5	250	180
		280	469	550	450	500	22	8	8 x M16	22.5	250	180
		315	499	660	550	600	22	8	8 x 22	22.5	250	210
	TN [2]	315	499	800	680	740	25	8	8 x 22	22.5	250	210
		355	499	900	780	840	25	8	8 x 22	22.5	250	210
SK 8307	IEC	100	389	250	180	215	11	4	4 x 14.5	0	160	100
		112	389	250	180	215	11	4	4 x 14.5	0	160	100
		132	409	300	230	265	12	4	4 x 14.5	0	210	120
		160	439	350	250	300	15	6.5	4 x 17.5	45	220	150
		180	439	350	250	300	15	6.5	4 x 17.5	45	220	150
		200	439	400	300	350	17	6.5	4 x 17.5	45	250	150
		225	469	450	350	400	18	6.5	8 x 17.5	22.5	250	180
		250	469	550	450	500	22	8	8 x M16	22.5	250	180
		280	469	550	450	500	22	8	8 x M16	22.5	250	180
		315	499	660	550	600	22	8	8 x 22	22.5	250	210
	TN [2]	315	499	800	680	740	25	8	8 x 22	22.5	250	210
		355	499	900	780	840	25	8	8 x 22	22.5	250	210

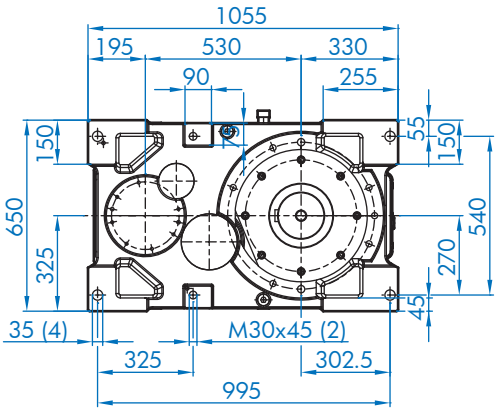
[1] Type designation and dimensions up to 200kW correspond to NORD motors
[2] Data for Transnorm motors available on request

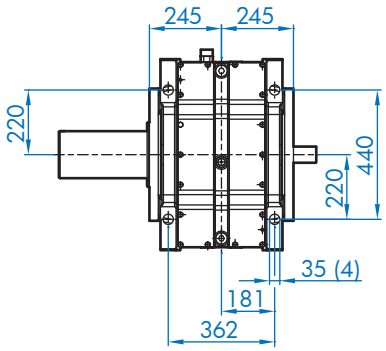
Parallel Drives
SK 9207 V
SK 9307 V

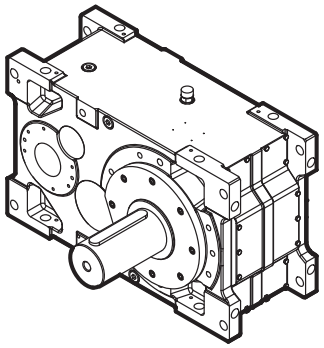
DRIVESYSTEMS

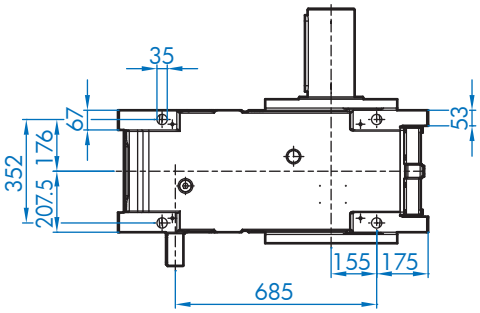
SK 9207/9307 V

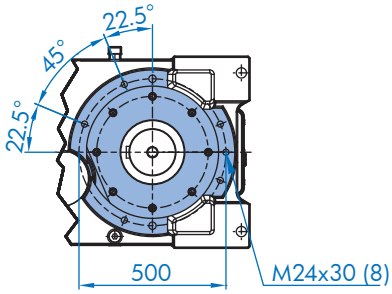




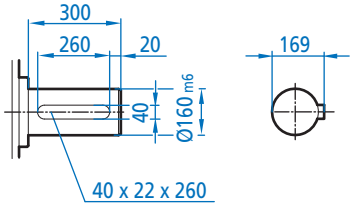




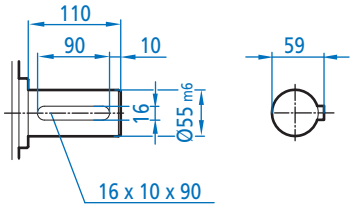




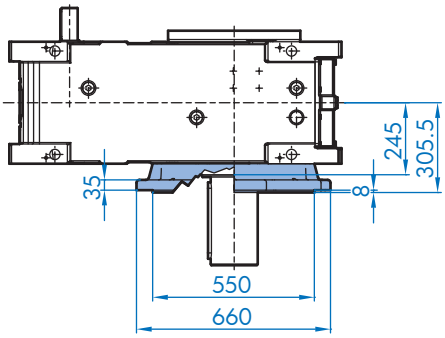
SK 9207/9307 V - Output Shaft Detail

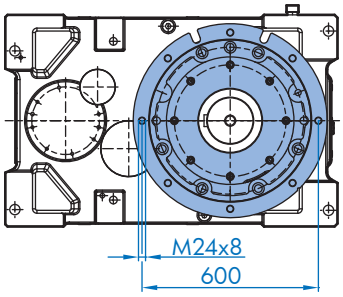


SK 9207/9307 V - Input Shaft Detail

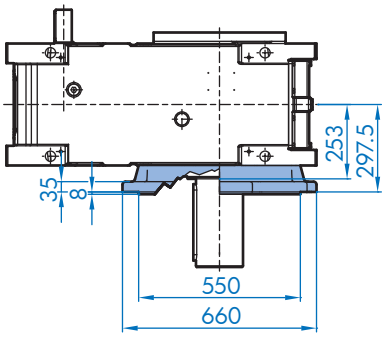


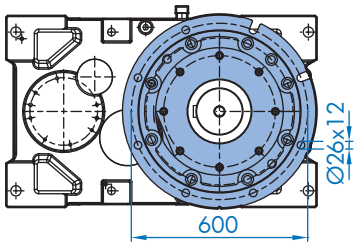
SK 9207/9307 VF



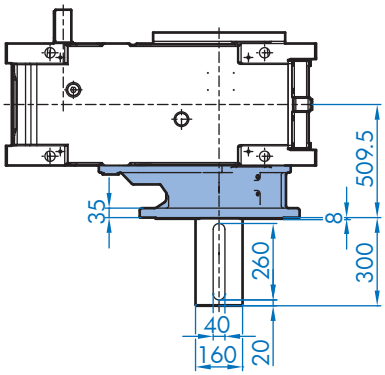


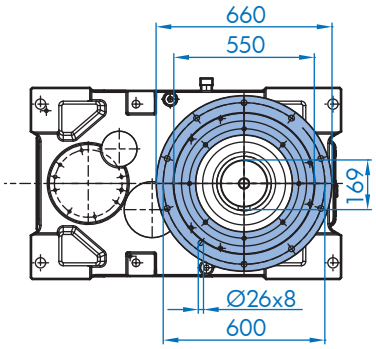
SK 9207/9307 VFK



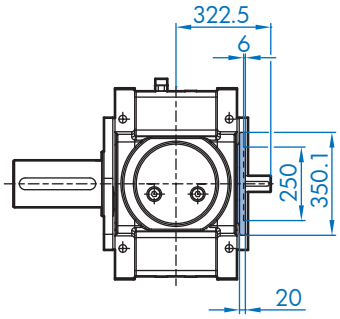


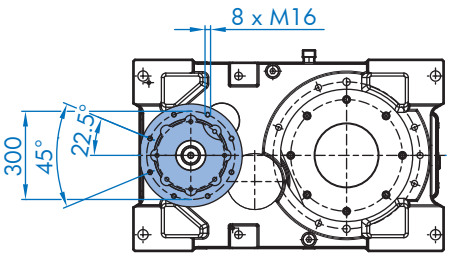
SK 9207/9307 VL2/VL3



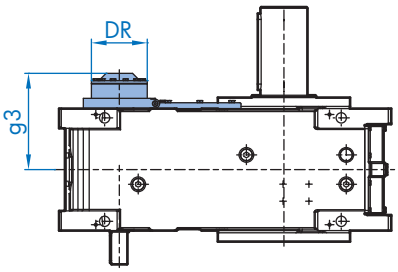


SK 9207/9307 F1 - Input Flange



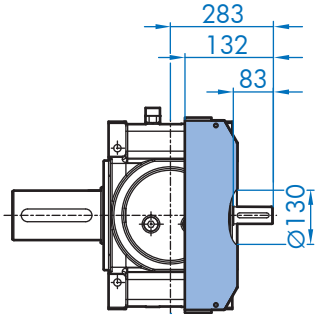


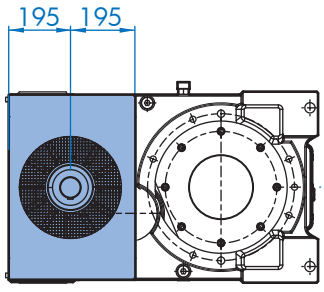
SK 9207/9307 R - Backstop



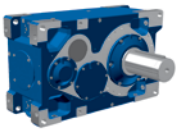
R	iN	DR	g3
SK9207	7.1-25	210	329.5
SK9307	28-355	190	326.5

SK 9207/9307 FAN

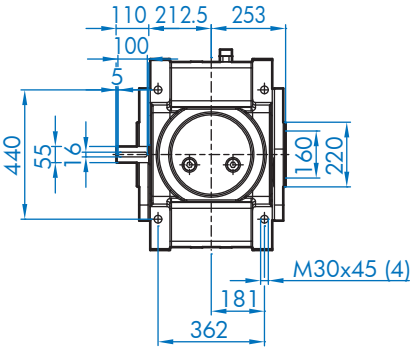


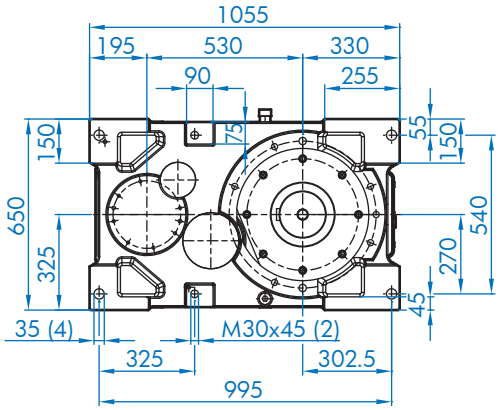


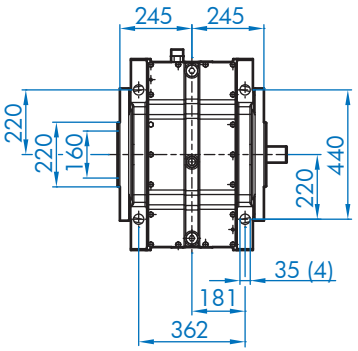
Parallel Drives
SK 9207 A
SK 9307 A

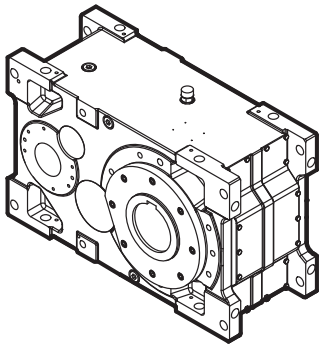


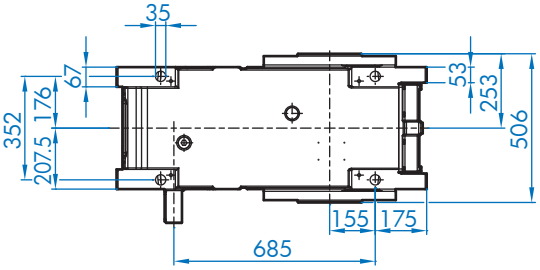
SK 9207/9307 A

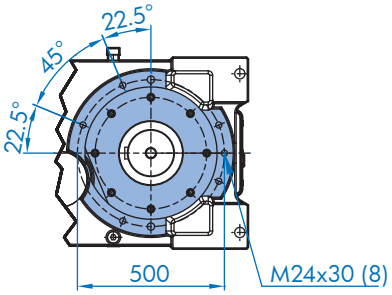






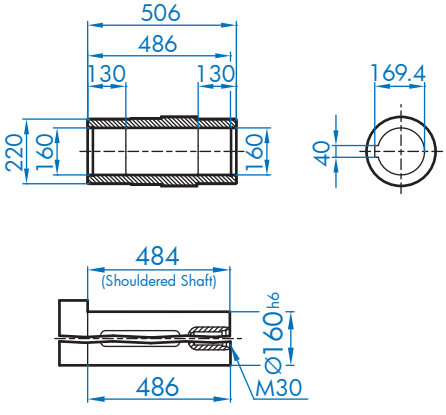






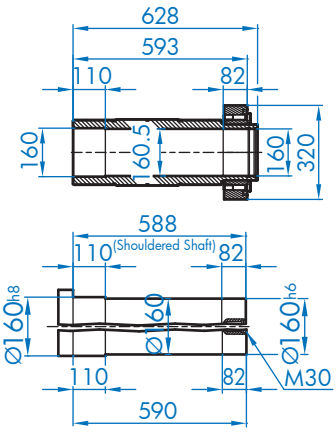
ALTERNATE SHAFTS SEE PAGE 186 - 188

SK 9207/9307 A



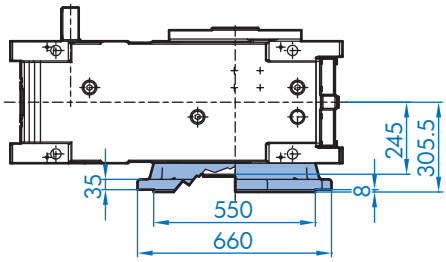
customer shaft recommendation

SK 9207/9307 AS

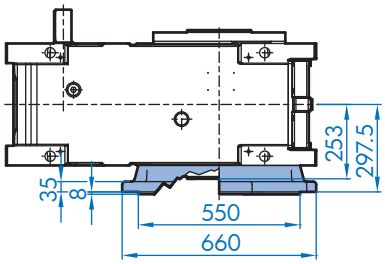


customer shaft recommendation

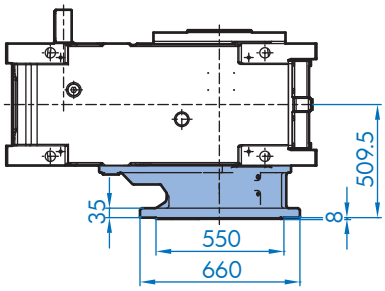
SK 9207/9307 AF

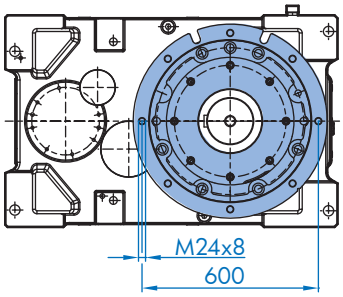


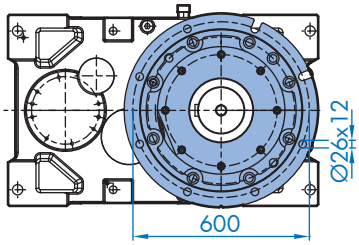
SK 9207/9307 AFK

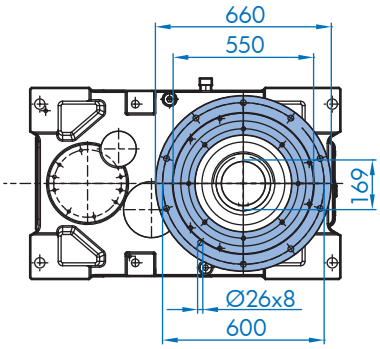


SK 9207/9307 VL2/VL3

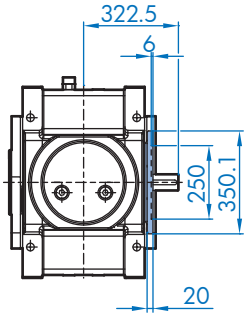


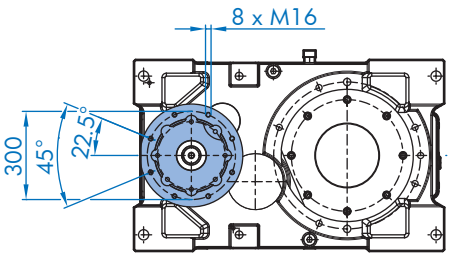




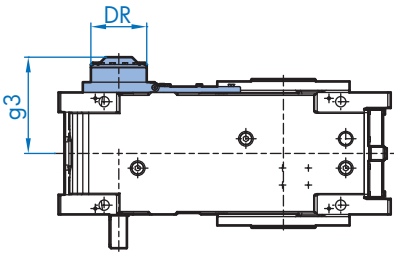


SK 9207/9307 F1 - Input Flange

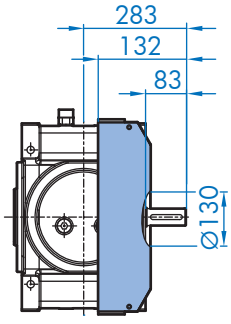


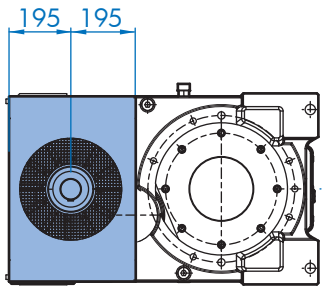


SK 9207/9307 R - Backstop



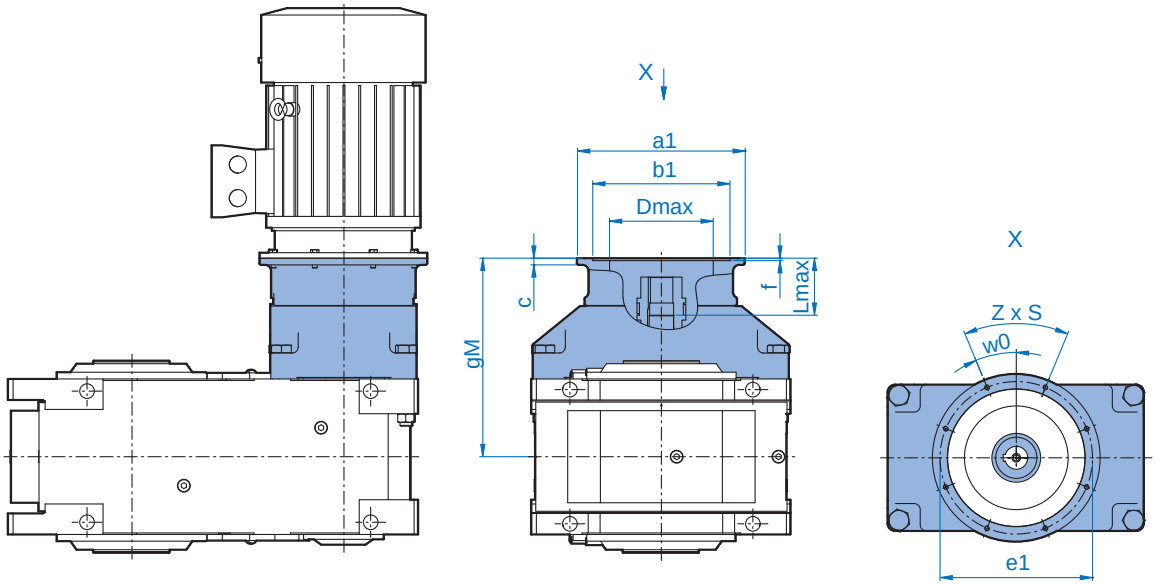
SK 9207/9307 FAN





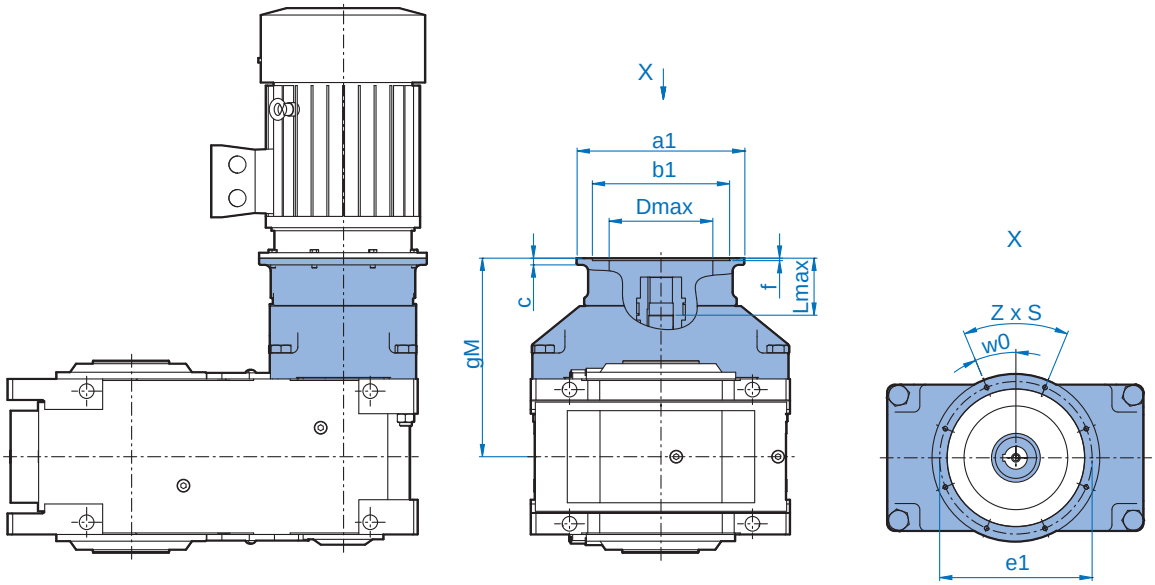
R	iN	DR	g3
SK9207	7.1-25	210	329.5
SK9307	28-355	190	326.5

SK 9207 - SK 9307



			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 9207	NEMA	254/256 TC	494.5	350	215.9	184.15	38	4	4 x 1/2-13	45	220	172
		284/286 TC	494.5	350	266.7	228.6	38	4	4 x 1/2-13	45	220	172
		324/326 TC	505.5	400	317.5	279.4	51	4	4 x 5/8-11	45	265	183
		364/365 TC	535.5	450	317.5	279.4	52	4	4 x 5/8-11	45	280	213
		404/405 TC	549.5	550	317.5	279.4	70	6	4 x 5/8-11	45	330	227
		444/445 TC	581.5	550	406.4	355.6	102	6	4 x 5/8-11	45	330	259
		447/449 TC	576.5	660	406.4	355.6	67	6	4 x 5/8-11	45	330	254
SK 9307	NEMA	254/256 TC	494.5	350	215.9	184.15	38	4	4 x 1/2-13	45	220	172
		284/286 TC	494.5	350	266.7	228.6	38	4	4 x 1/2-13	45	220	172
		324/326 TC	505.5	400	317.5	279.4	51	4	4 x 5/8-11	45	265	183
		364/365 TC	535.5	450	317.5	279.4	52	4	4 x 5/8-11	45	280	213
		404/405 TC	549.5	550	317.5	279.4	70	6	4 x 5/8-11	45	330	227
		444/445 TC	581.5	550	406.4	355.6	102	6	4 x 5/8-11	45	330	259
		447/449 TC	576.5	660	406.4	355.6	67	6	4 x 5/8-11	45	330	254

SK 9207 - SK 9307

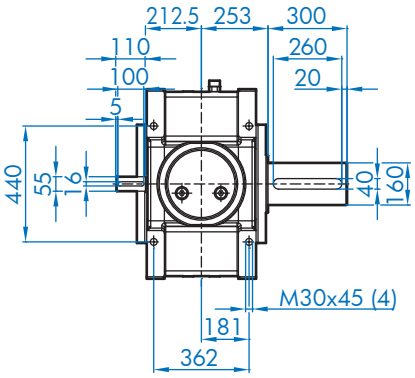


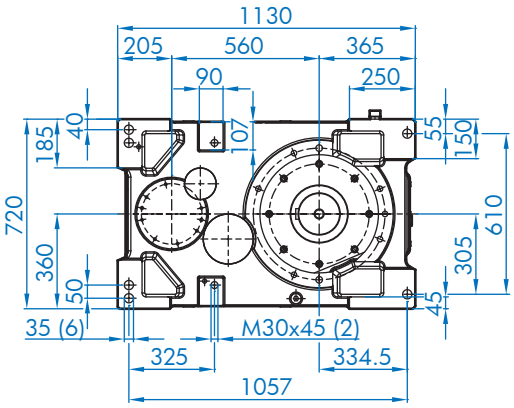
			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 9207	IEC	100	421.5	250	180	215	11	4	4 x 14.5	0	160	99
		112	421.5	250	180	215	11	4	4 x 14.5	0	160	99
		132	441.5	300	230	265	12	4	4 x 14.5	0	210	119
		160	471.5	350	250	300	15	6.5	4 x 17.5	45	220	149
		180	471.5	350	250	300	15	6.5	4 x 17.5	45	220	149
		200	471.5	400	300	350	17	6.5	4 x 17.5	45	250	149
		225	501.5	450	350	400	18	6.5	8 x 17.5	22.5	250	179
		250	501.5	550	450	500	22	8	8 x M16	22.5	250	179
		280	501.5	550	450	500	22	8	8 x M16	22.5	250	179
		315	531.5	660	550	600	22	8	8 x 22	22.5	250	209
	TN [2]	315	531.5	800	680	740	25	8	8 x 22	22.5	250	209
		355	531.5	900	780	840	25	8	8 x 22	22.5	250	209
SK 9307	IEC	100	421.5	250	180	215	11	4	4 x 14.5	0	160	99
		112	421.5	250	180	215	11	4	4 x 14.5	0	160	99
		132	441.5	300	230	265	12	4	4 x 14.5	0	210	119
		160	471.5	350	250	300	15	6.5	4 x 17.5	45	220	149
		180	471.5	350	250	300	15	6.5	4 x 17.5	45	220	149
		200	471.5	400	300	350	17	6.5	4 x 17.5	45	250	149
		225	501.5	450	350	400	18	6.5	8 x 17.5	22.5	250	179
		250	501.5	550	450	500	22	8	8 x M16	22.5	250	179
		280	501.5	550	450	500	22	8	8 x M16	22.5	250	179
		315	531.5	660	550	600	22	8	8 x 22	22.5	250	209
	TN [2]	315	531.5	800	680	740	25	8	8 x 22	22.5	250	209
		355	531.5	900	780	840	25	8	8 x 22	22.5	250	209

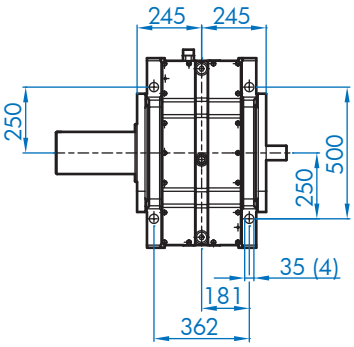
[1] Type designation and dimensions up to 200kW correspond to NORD motors
[2] Data for Transnorm motors available on request

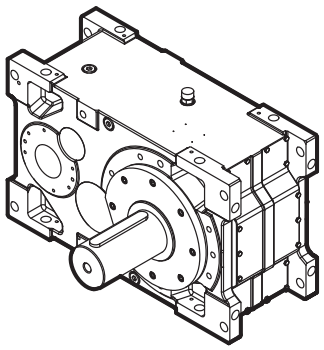
Parallel Drives
SK 10207 V
SK 10307 V

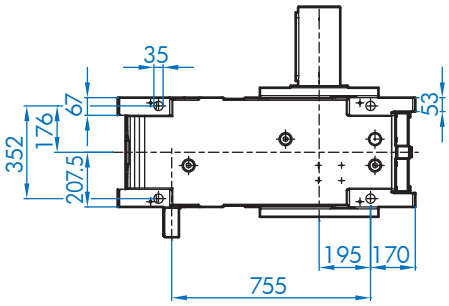
SK 10207/10307 V

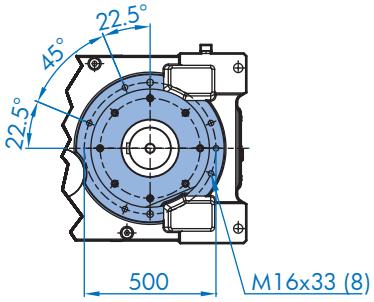




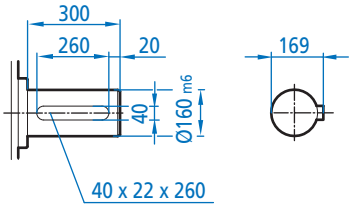




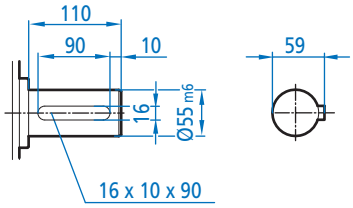




SK 10207/10307 V - Output Shaft Detail

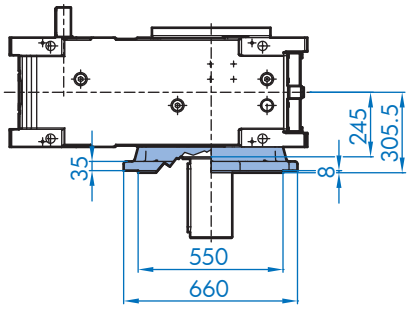


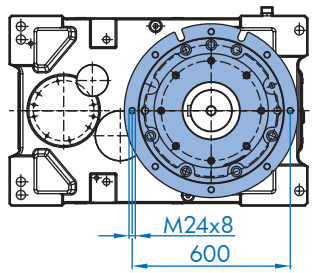
SK 10207/10307 V - Input Shaft Detail



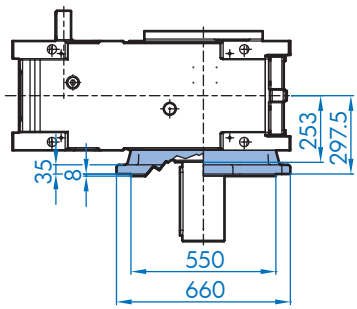
Parallel Drives
SK 10207 VF
SK 10307 VF

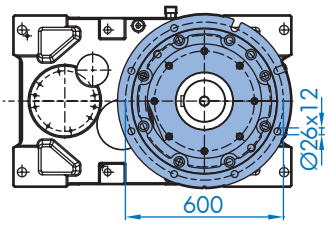
SK 10207/10307 VF



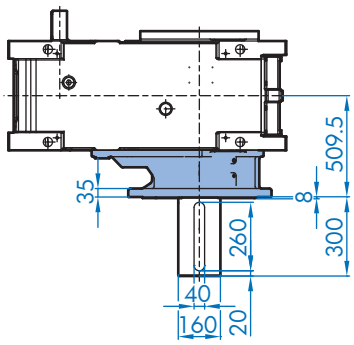


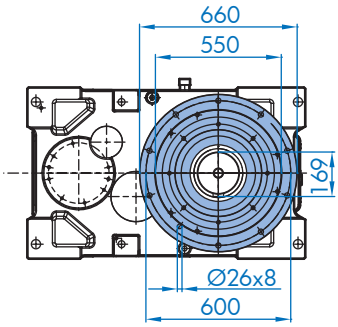
SK 10207/10307 VFK



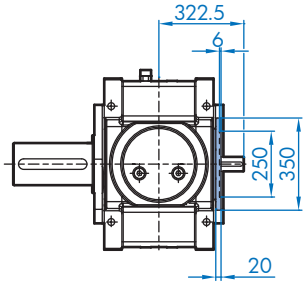


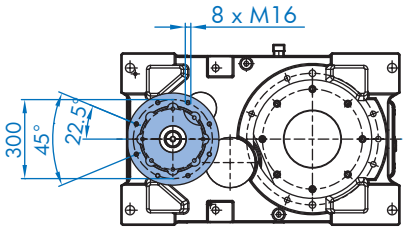
SK 10207/10307 VL2/VL3



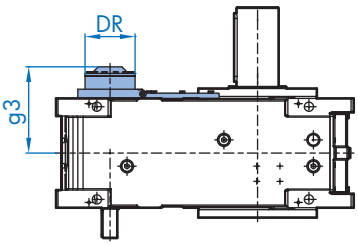


SK 10207/10307 F1 - Input Flange

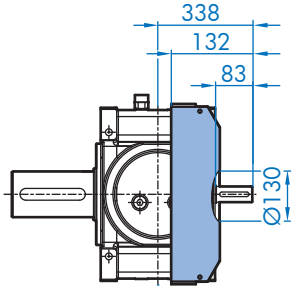


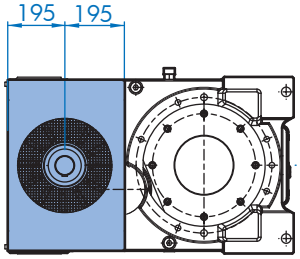


SK 10207/10307 R - Backstop



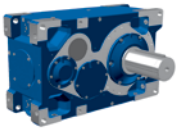
SK 10207/10307 FAN





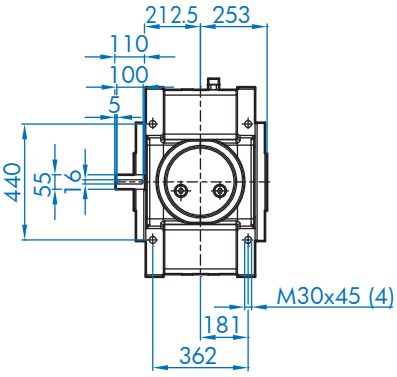
R	iN	DR	g3
SK10207	8-28	210	329.5
SK10307	28-280	190	326.5

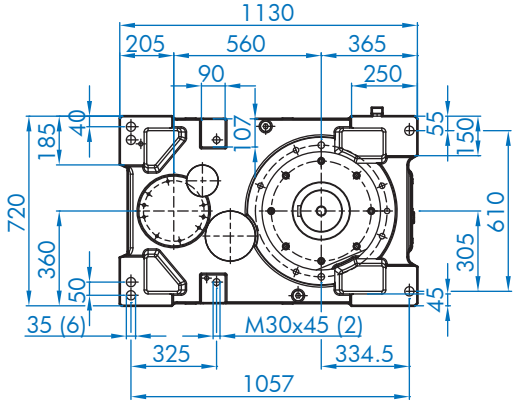
Parallel Drives
SK 10207 A
SK 10307 A

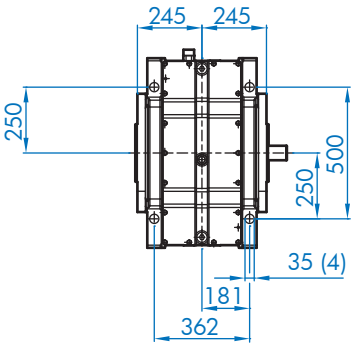


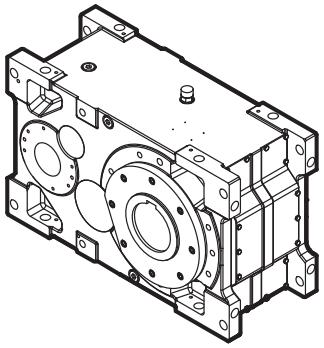
DRIVESYSTEMS

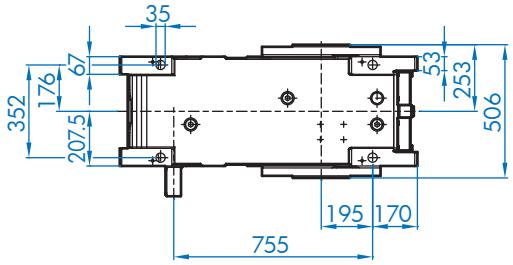
SK 10207/10307 A

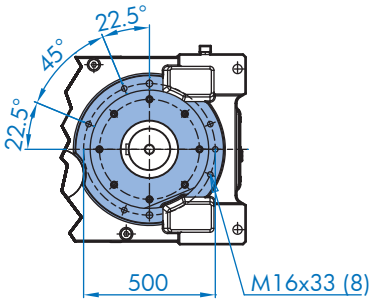






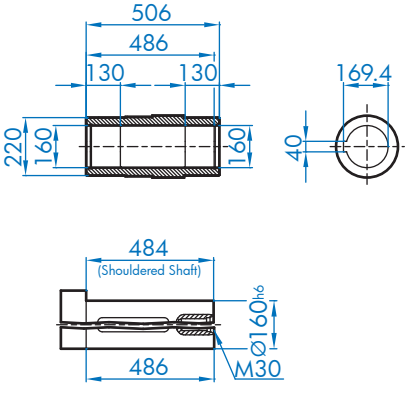






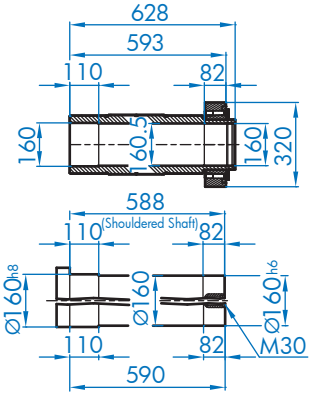
ALTERNATE SHAFTS SEE PAGE 186 - 188

SK 10207/10307 A



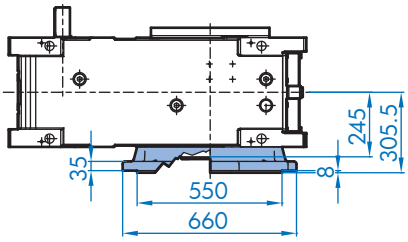
customer shaft recommendation

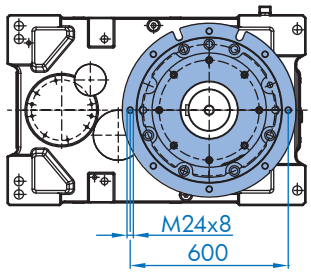
SK 10207/10307 AS



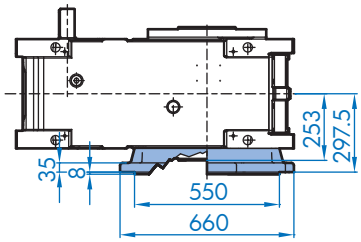
customer shaft recommendation

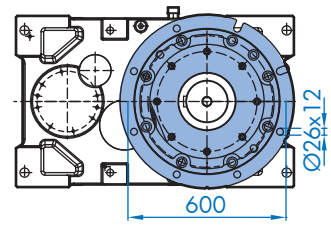
SK 10207/10307 AF



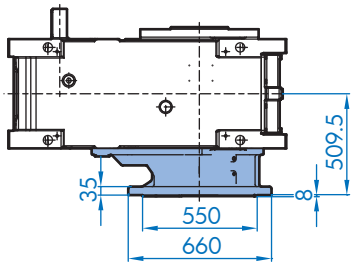


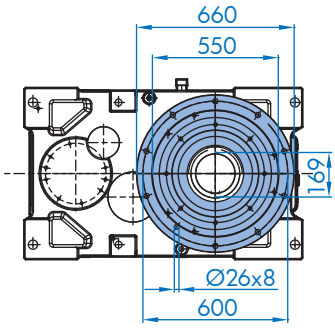
SK 10207/10307 AFK



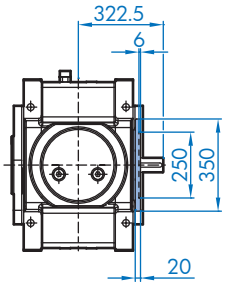


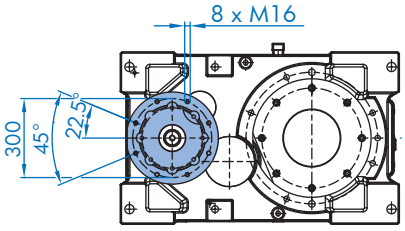
SK 10207/10307 VL2/VL3



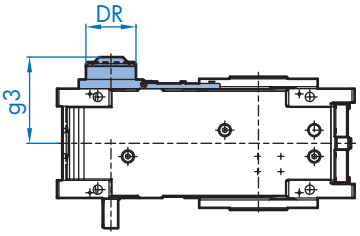


SK 10207/10307 F1 - Input Flange



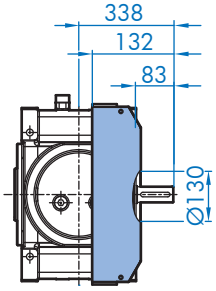


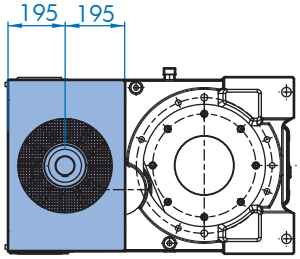
SK 10207/10307 R - Backstop



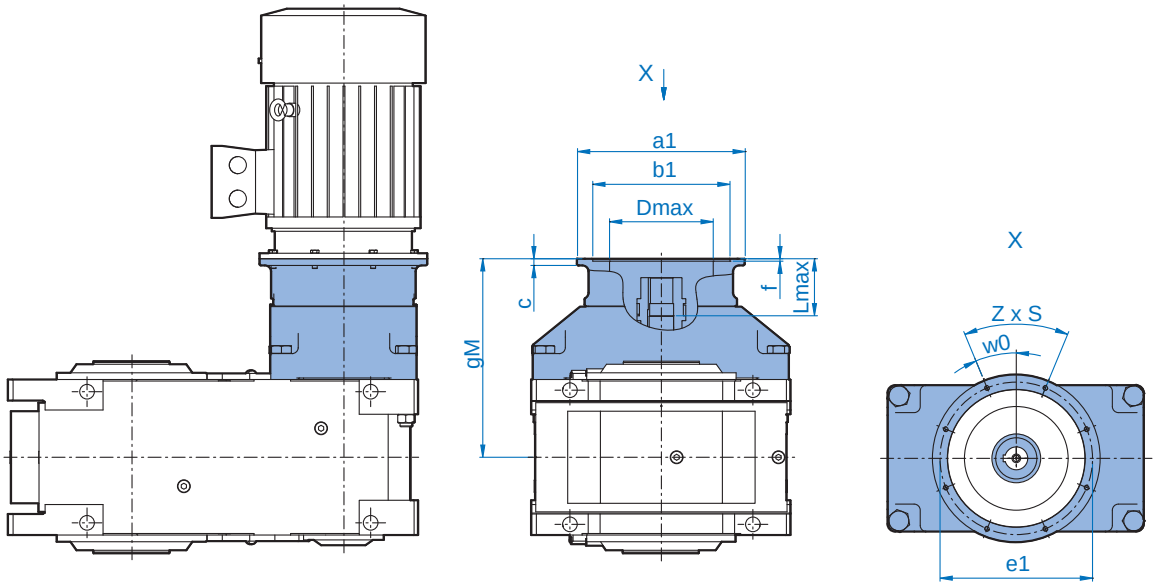
R	iN	DR	g3
SK10207	8-28	210	329.5
SK10307	28-280	190	326.5

SK 10207/10307 FAN





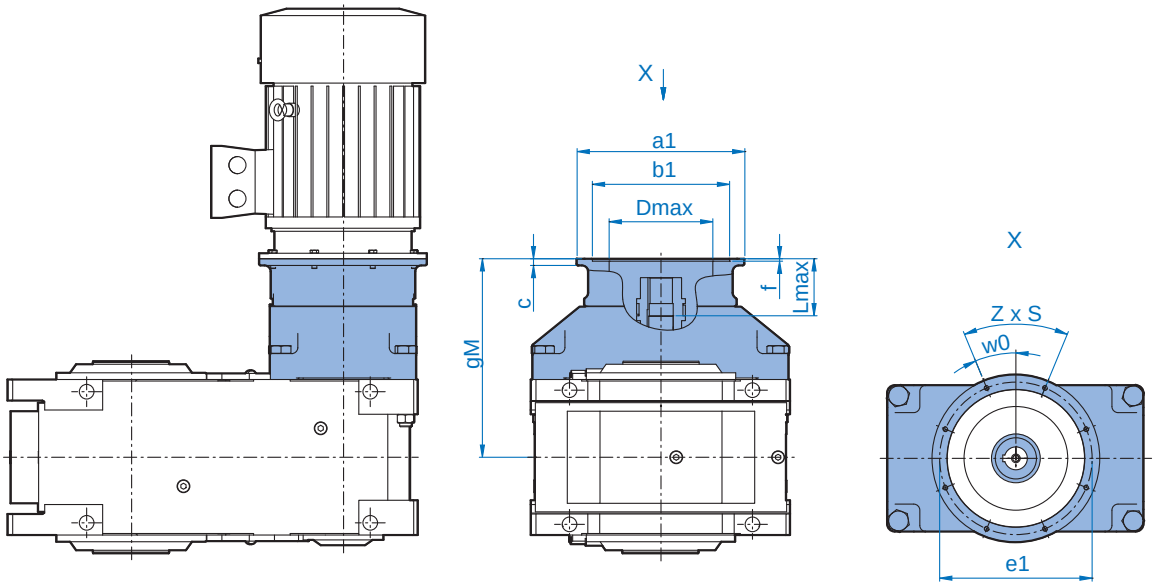
SK 10207 - SK 10307



			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 10207	NEMA	254/256 TC	494.5	350	215.9	184.15	38	4	4 x 1/2-13	45	220	172
		284/286 TC	494.5	350	266.7	228.6	38	4	4 x 1/2-13	45	220	172
		324/326 TC	505.5	400	317.5	279.4	51	4	4 x 5/8-11	45	265	183
		364/365 TC	535.5	450	317.5	279.4	52	4	4 x 5/8-11	45	280	213
		404/405 TC	549.5	550	317.5	279.4	70	6	4 x 5/8-11	45	330	227
		444/445 TC	581.5	550	406.4	355.6	102	6	4 x 5/8-11	45	330	259
		447/449 TC	576.5	660	406.4	355.6	67	6	4 x 5/8-11	45	330	254
SK 10307	NEMA	254/256 TC	494.5	350	215.9	184.15	38	4	4 x 1/2-13	45	220	172
		284/286 TC	494.5	350	266.7	228.6	38	4	4 x 1/2-13	45	220	172
		324/326 TC	505.5	400	317.5	279.4	51	4	4 x 5/8-11	45	265	183
		364/365 TC	535.5	450	317.5	279.4	52	4	4 x 5/8-11	45	280	213
		404/405 TC	549.5	550	317.5	279.4	70	6	4 x 5/8-11	45	330	227
		444/445 TC	581.5	550	406.4	355.6	102	6	4 x 5/8-11	45	330	259
		447/449 TC	576.5	660	406.4	355.6	67	6	4 x 5/8-11	45	330	254

Parallel Drives
SK 10207/10307 (IEC)

SK 10207 - SK 10307

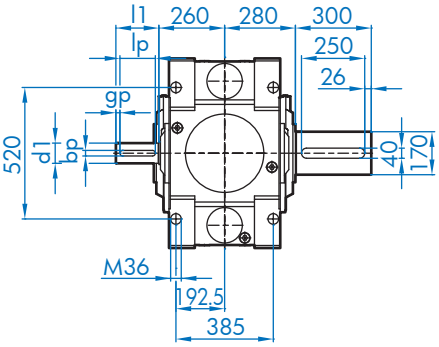


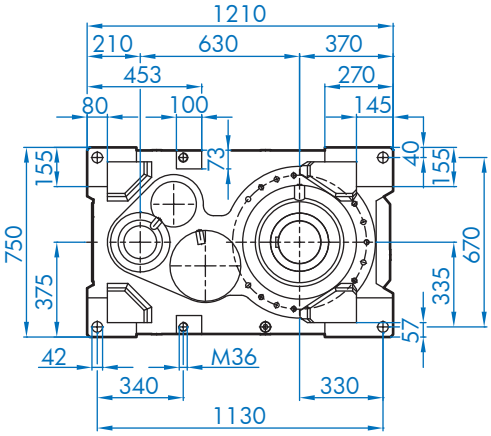
			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 10207	IEC	100	421.5	250	180	215	11	4	4 x 14.5	0	160	99
		112	421.5	250	180	215	11	4	4 x 14.5	0	160	99
		132	441.5	300	230	265	12	4	4 x 14.5	0	210	119
		160	471.5	350	250	300	15	6.5	4 x 17.5	45	220	149
		180	471.5	350	250	300	15	6.5	4 x 17.5	45	220	149
		200	471.5	400	300	350	17	6.5	4 x 17.5	45	250	149
		225	501.5	450	350	400	18	6.5	8 x 17.5	22.5	250	179
		250	501.5	550	450	500	22	8	8 x M16	22.5	250	179
		280	501.5	550	450	500	22	8	8 x M16	22.5	250	179
		315	531.5	660	550	600	22	8	8 x 22	22.5	250	209
	TN [2]	315	531.5	800	680	740	25	8	8 x 22	22.5	250	209
		355	531.5	900	780	840	25	8	8 x 22	22.5	250	209
SK 10307	IEC	100	421.5	250	180	215	11	4	4 x 14.5	0	160	99
		112	421.5	250	180	215	11	4	4 x 14.5	0	160	99
		132	441.5	300	230	265	12	4	4 x 14.5	0	210	119
		160	471.5	350	250	300	15	6.5	4 x 17.5	45	220	149
		180	471.5	350	250	300	15	6.5	4 x 17.5	45	220	149
		200	471.5	400	300	350	17	6.5	4 x 17.5	45	250	149
		225	501.5	450	350	400	18	6.5	8 x 17.5	22.5	250	179
		250	501.5	550	450	500	22	8	8 x M16	22.5	250	179
		280	501.5	550	450	500	22	8	8 x M16	22.5	250	179
		315	531.5	660	550	600	22	8	8 x 22	22.5	250	209
	TN [2]	315	531.5	800	680	740	25	8	8 x 22	22.5	250	209
		355	531.5	900	780	840	25	8	8 x 22	22.5	250	209

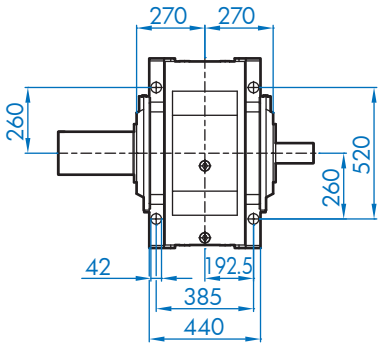
[1] Type designation and dimensions up to 200kW correspond to NORD motors
[2] Data for Transnorm motors available on request

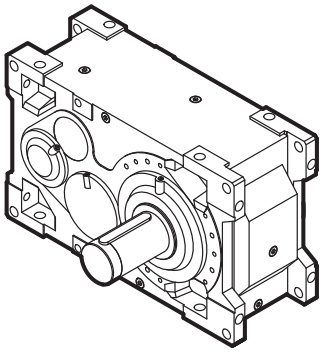
Parallel Drives
SK 11207 V
SK 11307 V

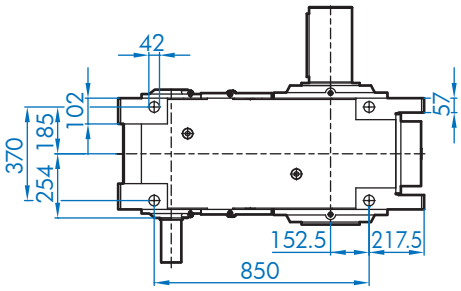

SK 11207/11307 V

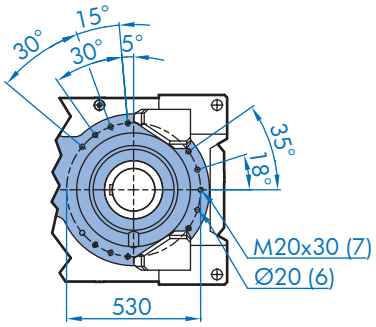




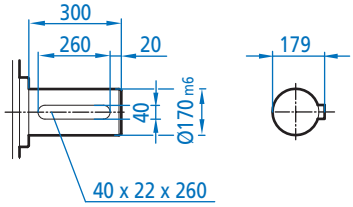




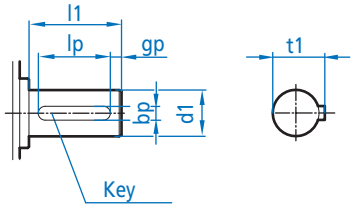




SK 11207/11307 V - Output Shaft Detail



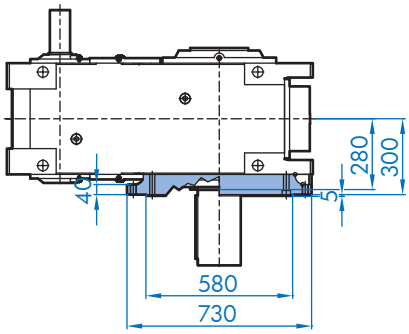
SK 11207/11307 V - Input Shaft Detail

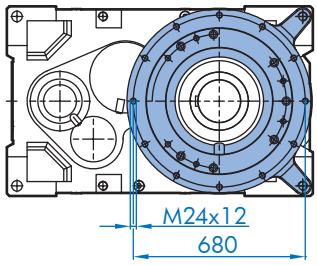


Input Shaft	Ød1	t1	l1	lp	bp	gp	key
SK 11207	80	85	170	140	22	15	22 x 14 x 140
SK 11307	70	74.5	140	125	20	7.5	20 x 12 x 125

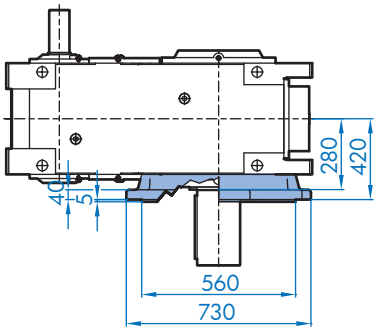
Parallel Drives
SK 11207 VF
SK 11307 VF

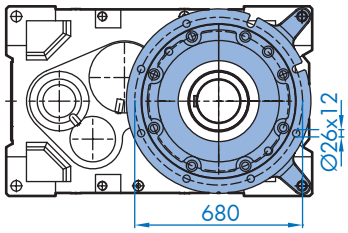
SK 11207/11307 VF



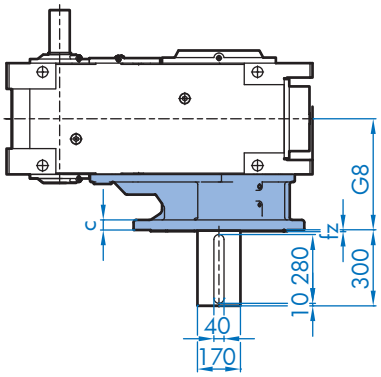


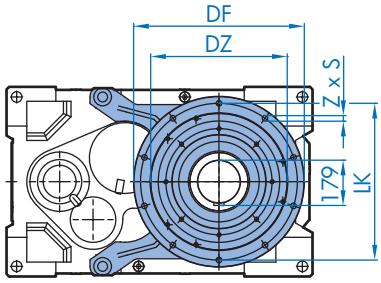
SK 11207/11307 VFK





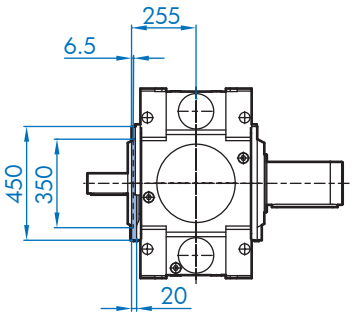
SK 11207/11307 VL2/VL3

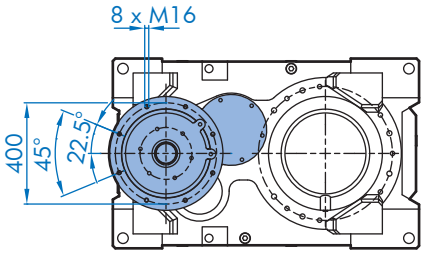




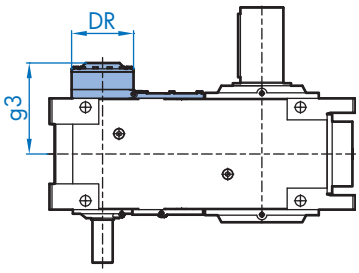
VL2/VL3	G8	DF	DZ	LK	fz	c	z	s
SK11..07	440	675	540	600	5	40	10	22
	455	760	600	620	5	50	12	22

SK 11207/11307 F1 - Input Flange



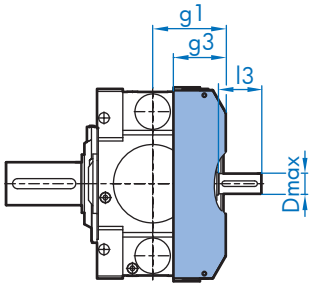


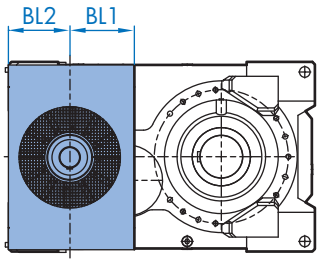
SK 11207/11307 R - Backstop



R	iN	DR	g3
SK11207	5.6-20	245	360
SK11307	22.4-28	210	350
SK11307	31.5-112	190	340

SK 11207/11307 FAN

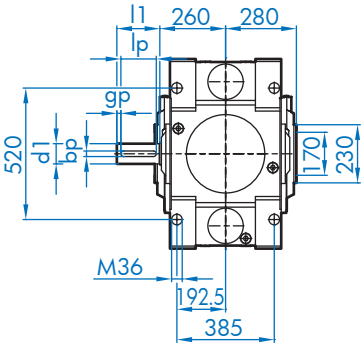


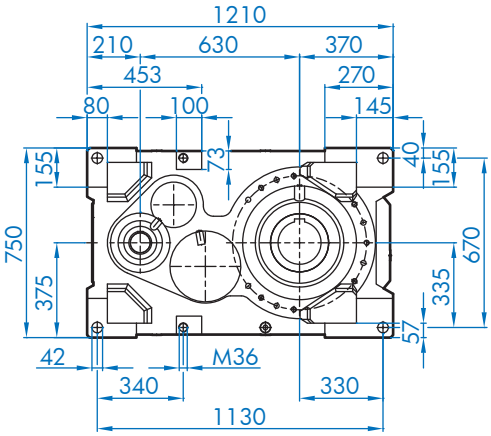


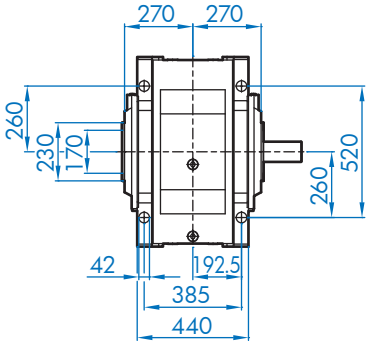
FAN	iN	B1	B2	g1	g3	l3	Dmax
SK11207	5.6-20	390	252	307	189	133	Ø160
SK11307	22.4-112	390	252	307	189	103	Ø160

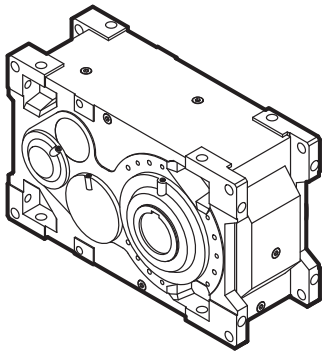
Parallel Drives
SK 11207 A
SK 11307 A

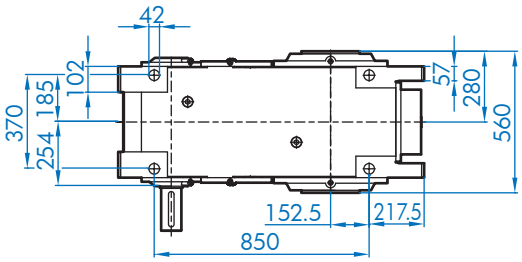

SK 11207/11307 A

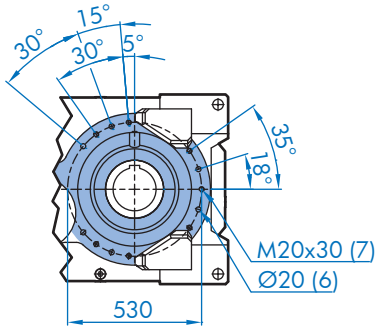




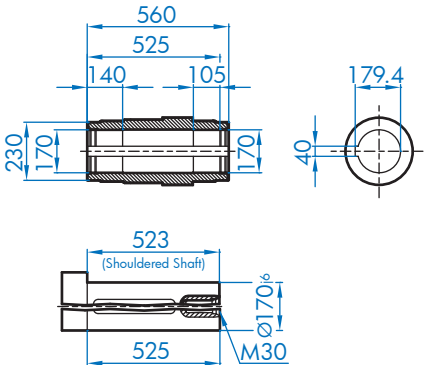






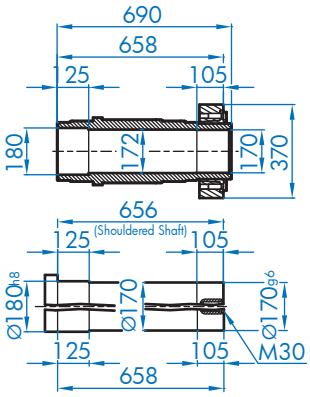


SK 11207/11307 A



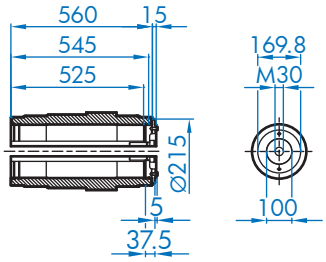
customer shaft recommendation

SK 11207/11307 AS



customer shaft recommendation

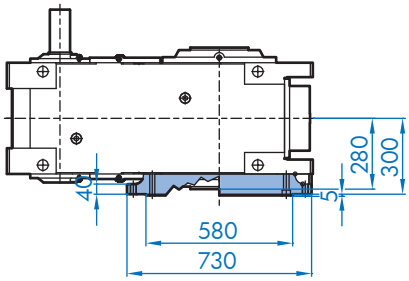
SK 11207/11307 - AB



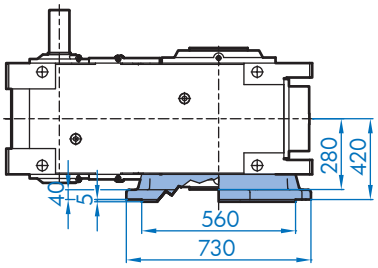
Input Shaft	Ød1	t1	l1	lp	bp	gp	key
SK 11207	80	85	170	140	22	15	22 x 14 x 140
SK 11307	70	74.5	140	125	20	7.5	20 x 12 x 125

Parallel Drives
SK 11207 AF
SK 11307 AF

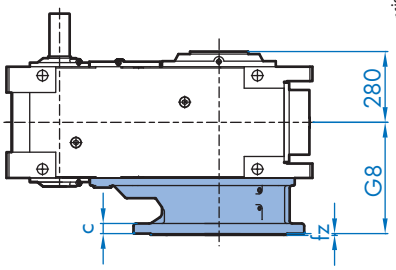
SK 11207/11307 AF

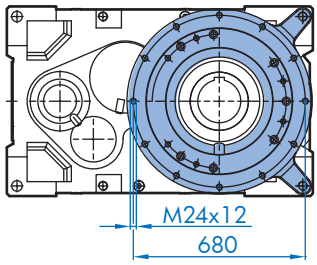


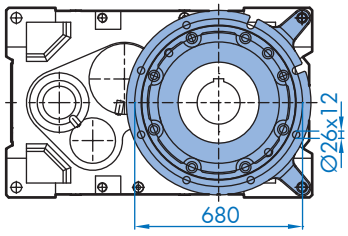
SK 11207/11307 AFK

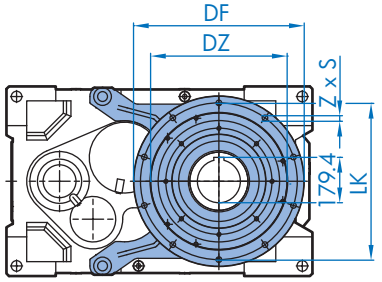


SK 11207/11307 VL2/VL3



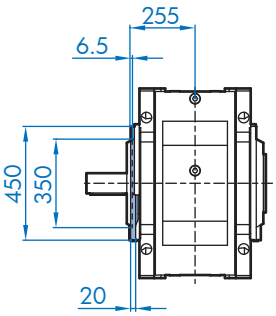


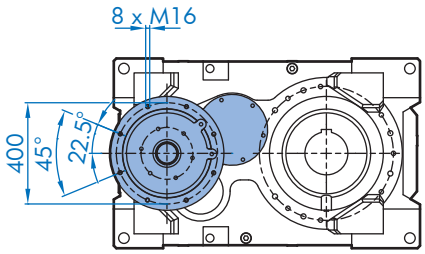




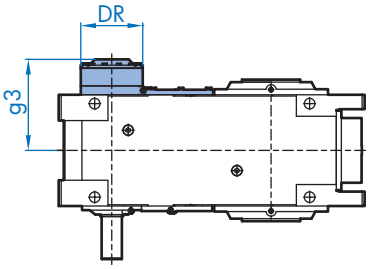
VL2/VL3	G8	DF	DZ	LK	fz	c	z	s
SK11..07	440	675	540	600	5	40	10	22
	455	760	600	620	5	50	12	22

SK 11207/11307 F1 - Input Flange



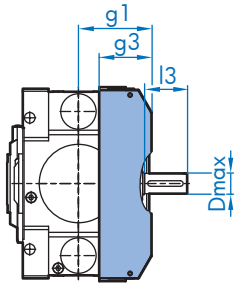


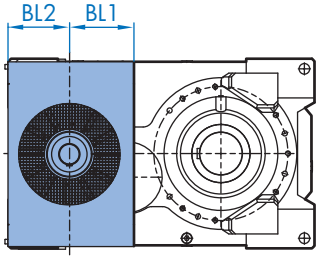
SK 11207/11307 R - Backstop



R	iN	DR	g3
SK11207	5.6-20	245	360
SK11307	22.4-28	210	350
SK11307	31.5-112	190	340

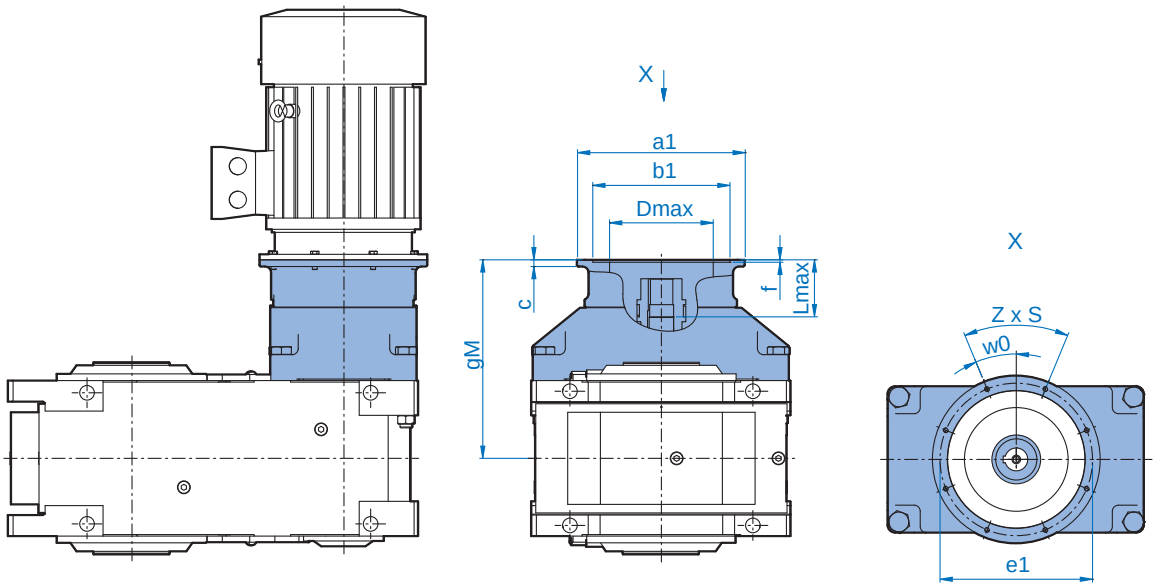
SK 11207/11307 FAN





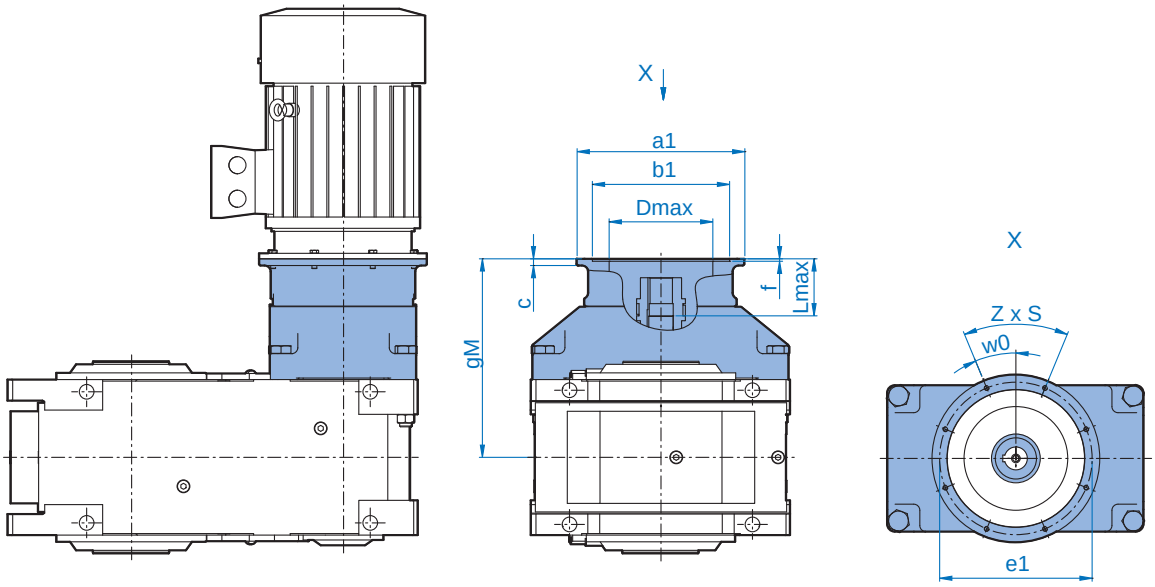
FAN	iN	B1	B2	g1	g3	l3	Dmax
SK11207	5.6-20	390	252	307	189	133	Ø160
SK11307	22.4-112	390	252	307	189	103	Ø160

SK 11207 - SK 11307



			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 11207	NEMA	254/256 TC	568	350	215.9	184.15	38	4	4 x 1/2-13	45	220	138
		284/286 TC	568	350	266.7	228.6	38	4	4 x 1/2-13	45	220	138
		324/326 TC	579	400	317.5	279.4	51	4	4 x 5/8-11	45	265	149
		364/365 TC	609	450	317.5	279.4	52	4	4 x 5/8-11	45	280	179
		404/405 TC	623	550	317.5	279.4	70	6	4 x 5/8-11	45	330	193
		444/445 TC	655	550	406.4	355.6	102	6	4 x 5/8-11	45	330	225
		447/449 TC	650	660	406.4	355.6	67	6	4 x 5/8-11	45	330	220
SK 11307	NEMA	254/256 TC	568	350	215.9	184.15	38	4	4 x 1/2-13	45	220	168
		284/286 TC	568	350	266.7	228.6	38	4	4 x 1/2-13	45	220	168
		324/326 TC	579	400	317.5	279.4	51	4	4 x 5/8-11	45	265	179
		364/365 TC	609	450	317.5	279.4	52	4	4 x 5/8-11	45	280	209
		404/405 TC	623	550	317.5	279.4	70	6	4 x 5/8-11	45	330	223
		444/445 TC	655	550	406.4	355.6	102	6	4 x 5/8-11	45	330	255
		447/449 TC	650	660	406.4	355.6	67	6	4 x 5/8-11	45	330	250

SK 11207 - SK 11307



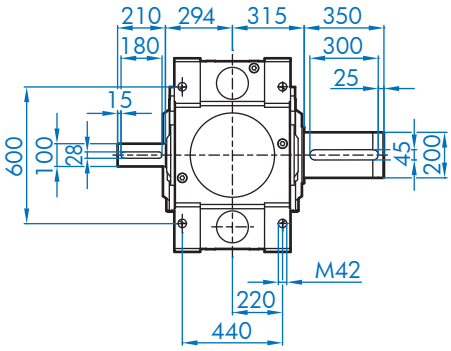
			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 11207	IEC	160	545	350	250	300	15	6.5	4 x 17.5	45	228	115
		180	545	350	250	300	15	6.5	4 x 17.5	45	228	115
		200	545	400	300	350	17	6.5	4 x 17.5	45	276	115
		225	575	450	350	400	18	6.5	8 x 17.5	22.5	290	145
		250	575	550	450	500	22	8	8 x M16	22.5	340	145
		280	575	550	450	500	22	8	8 x M16	22.5	340	145
		315	605	660	550	600	22	8	8 x 22	22.5	340	175
	TN [2]	315T	605	800	680	740	25	8	8 x 22	22.5	340	175
		355T	605	900	780	840	25	8	8 x 22	22.5	340	175
SK 11307	IEC	160	545	350	250	300	15	6.5	4 x 17.5	45	228	145
		180	545	350	250	300	15	6.5	4 x 17.5	45	228	145
		200	545	400	300	350	17	6.5	4 x 17.5	45	276	145
		225	575	450	350	400	18	6.5	8 x 17.5	22.5	290	175
		250	575	550	450	500	22	8	8 x M16	22.5	340	175
		280	575	550	450	500	22	8	8 x M16	22.5	340	175
		315	605	660	550	600	22	8	8 x 22	22.5	340	205
	TN [2]	315T	605	800	680	740	25	8	8 x 22	22.5	340	205
		355T	605	900	780	840	25	8	8 x 22	22.5	340	205

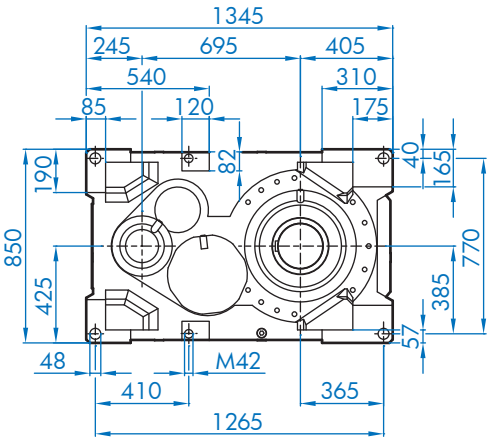
[1] Type designation and dimensions up to 200kW correspond to NORD motors

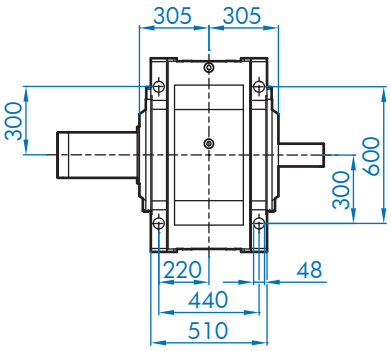
[2] Data for Transnorm motors available on request

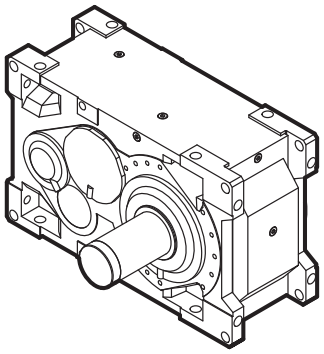
Parallel Drives
SK 12207 V
SK 12307 V

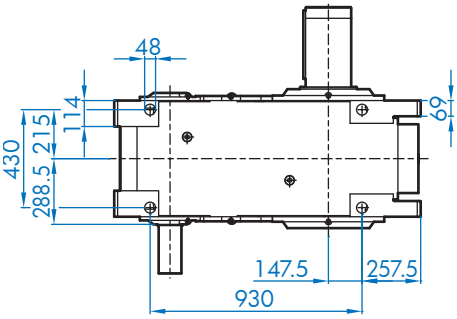
SK 12207/12307 V

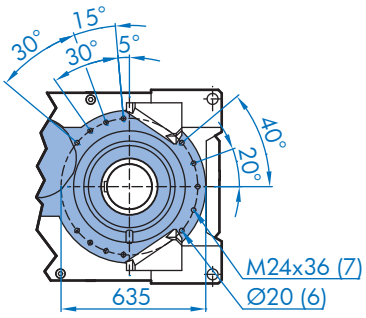




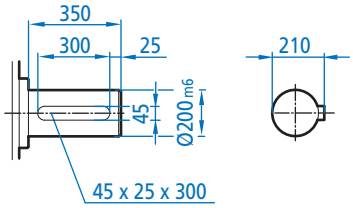




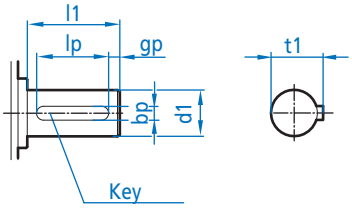




SK 12207/12307 V - Output Shaft Detail

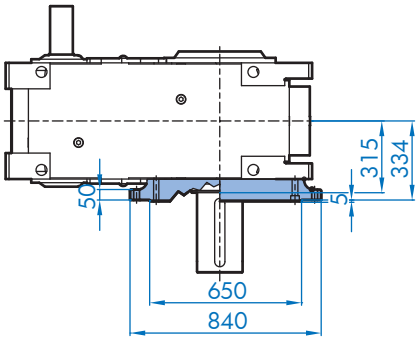


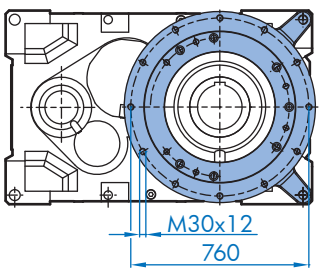
SK 12207/12307 V - Input Shaft Detail



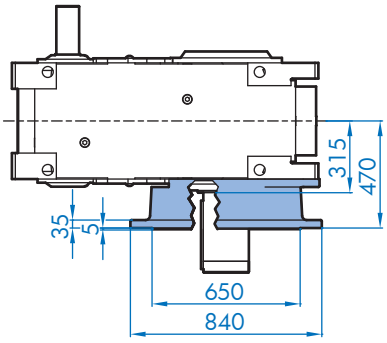
Input Shaft	Ød1	t1	l1	lp	bp	gp	key
SK 12207	100	106	210	180	28	15	28 x 16 x 180
SK 12307	80	85	170	140	22	15	22 x 14 x 140

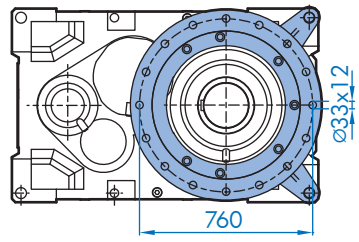
SK 12207/12307 VF



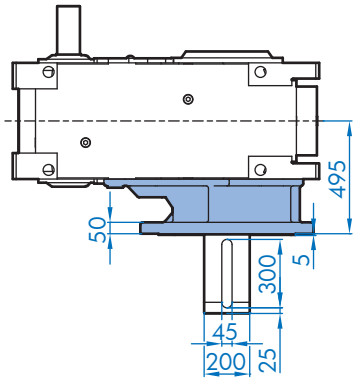


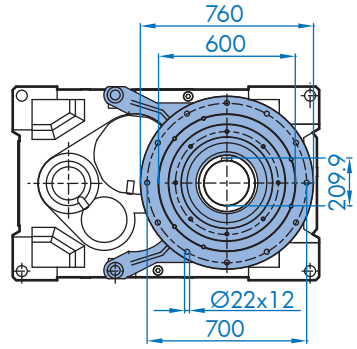
SK 12207/12307 VFK



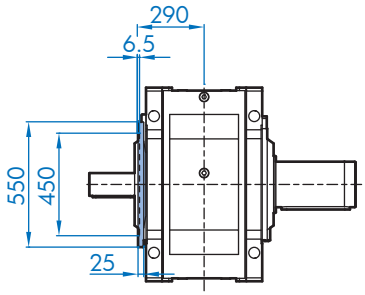


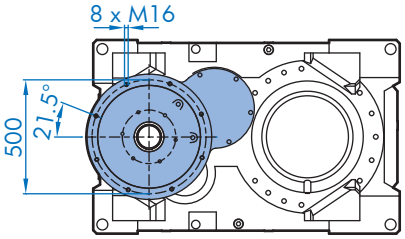
SK 12207/12307 VL2/VL3



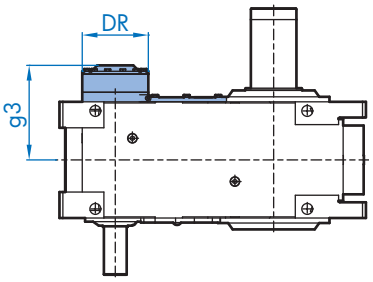


SK 12207/12307 F1 - Input Flange



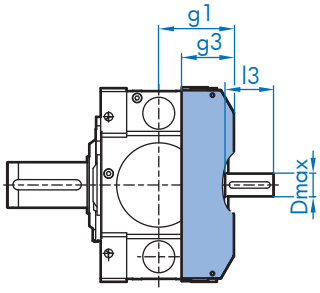


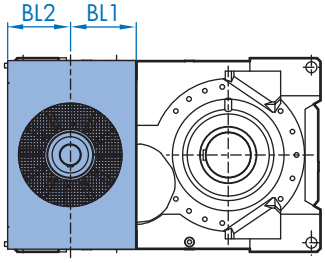
SK 12207/12307 R - Backstop



R	iN	DR	g3
SK12207	5.6-20	290	415
SK12307	22.4-112	210	385

SK 12207/12307 FAN



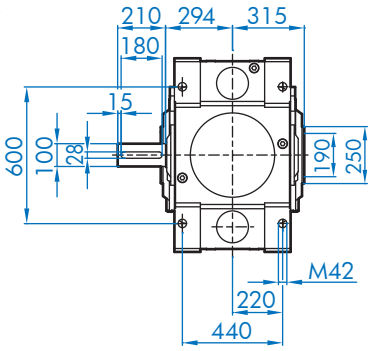


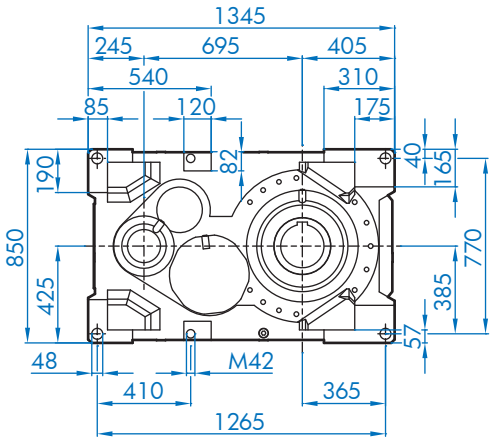
FAN	iN	B1	B2	g1	g3	l3	Dmax
SK12207	5.6-20	430	287	358	217	158	Ø180
SK12307	22.4-112	430	287	358	217	118	Ø180

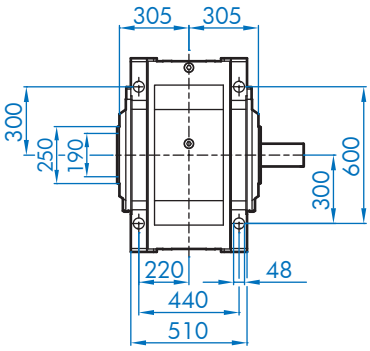
Parallel Drives
SK 12207 A
SK 12307 A

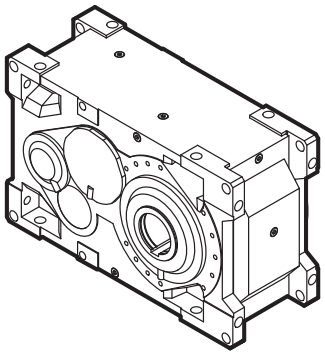
DRIVESYSTEMS

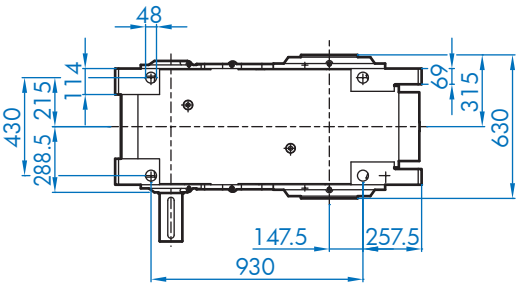
SK 12207/12307 A

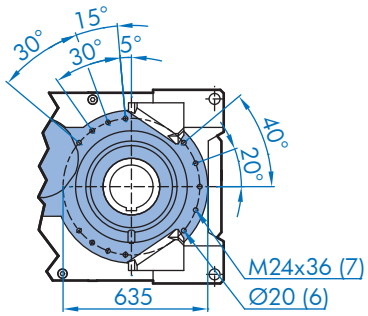




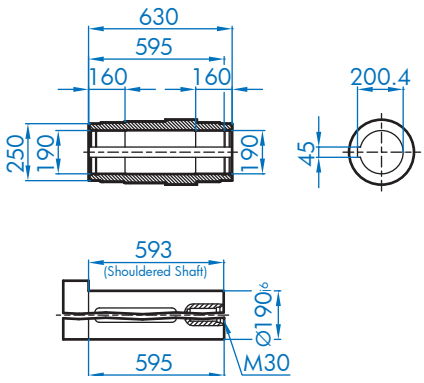






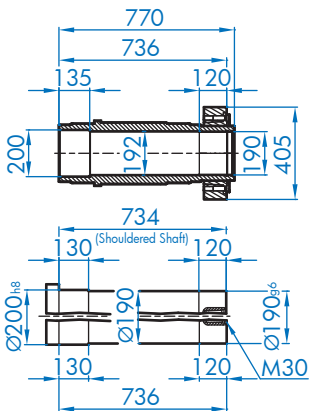


SK 12207/12307 A



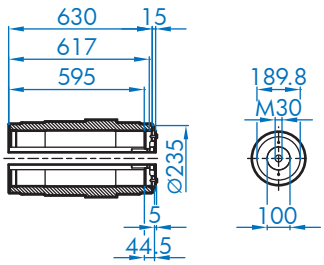
customer shaft recommendation

SK 12207/12307 AS



customer shaft recommendation

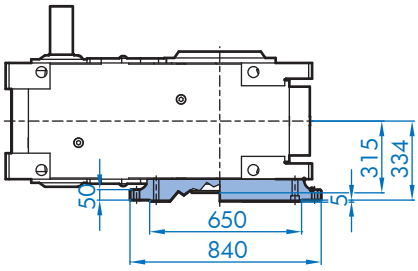
SK 12207/12307 - AB

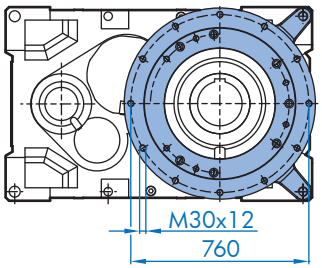


Input Shaft	Ød1	t1	l1	lp	bp	gp	key
SK 12207	100	106	210	180	28	15	28 x 16 x 180
SK 12307	80	85	170	140	22	15	22 x 14 x 140

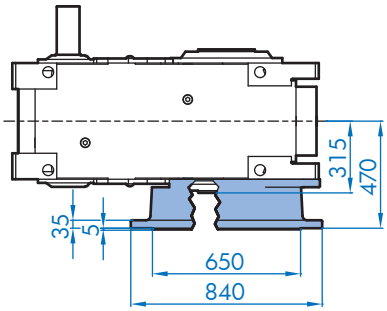
Parallel Drives
SK 12207 AF
SK 12307 AF

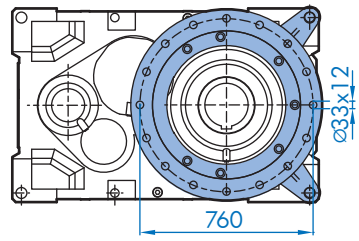
SK 12207/12307 AF



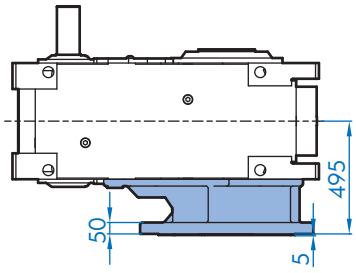


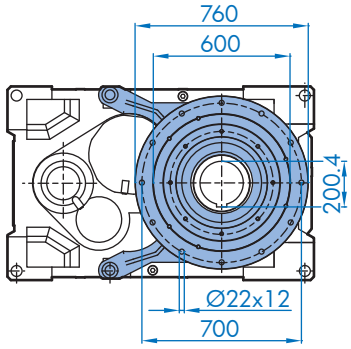
SK 12207/12307 AFK



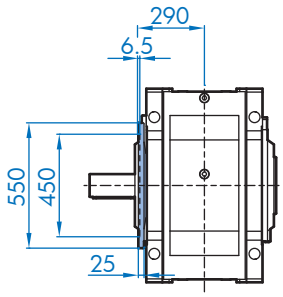


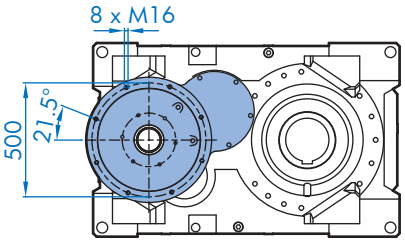
SK 12207/12307 VL2/VL3



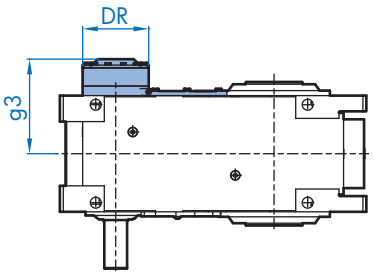


SK 12207/12307 F1 - Input Flange



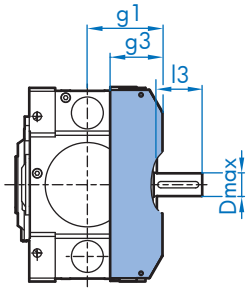


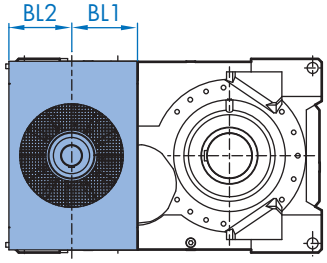
SK 12207/12307 R - Backstop



R	iN	DR	g3
SK12207	5.6-20	290	415
SK12307	22.4-112	210	385

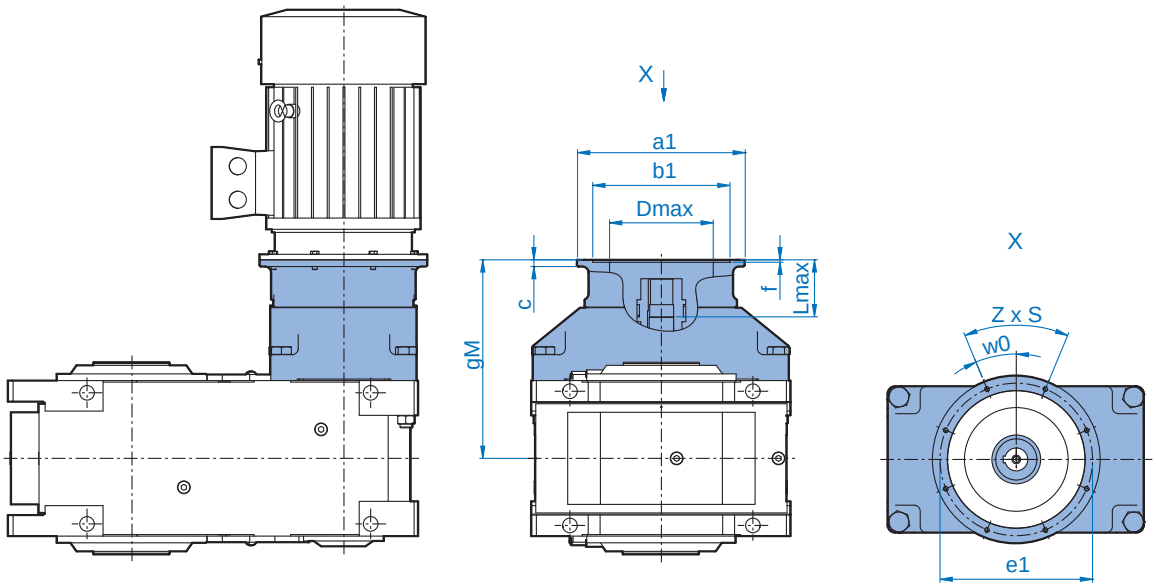
SK 12207/12307 FAN





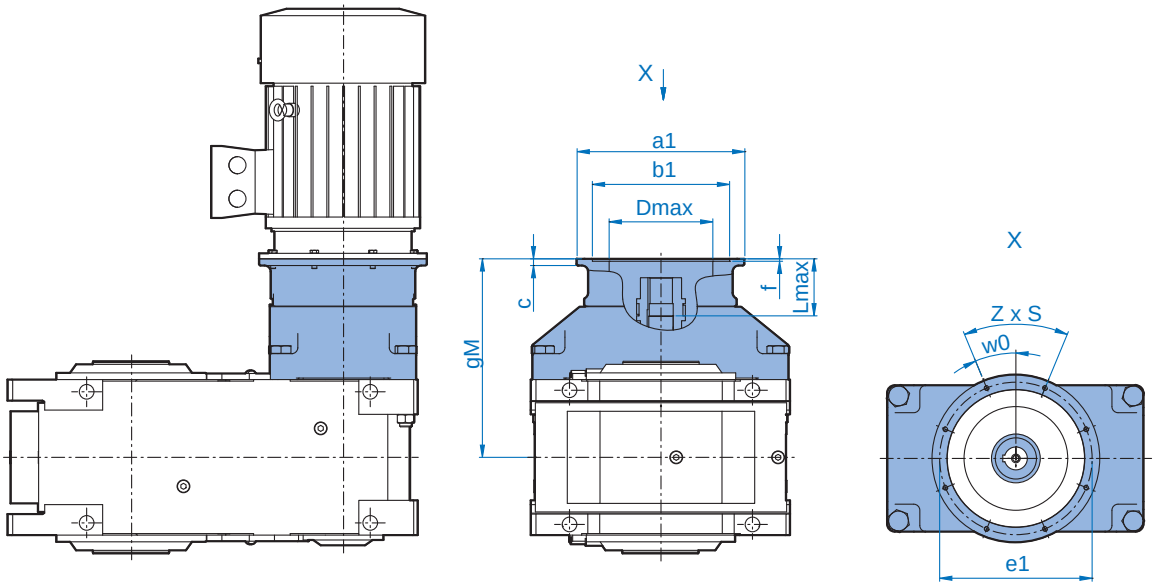
FAN	iN	B1	B2	g1	g3	l3	Dmax
SK12207	5.6-20	430	287	358	217	158	Ø180
SK12307	22.4-112	430	287	358	217	118	Ø180

SK 12207 - SK 12307



			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 12207	NEMA	254/256 TC	644	350	215.9	184.15	38	4	4 x 1/2-13	45	220	140
		284/286 TC	644	350	266.7	228.6	38	4	4 x 1/2-13	45	220	140
		324/326 TC	655	400	317.5	279.4	51	4	4 x 5/8-11	45	265	151
		364/365 TC	685	450	317.5	279.4	52	4	4 x 5/8-11	45	280	181
		404/405 TC	699	550	317.5	279.4	70	6	4 x 5/8-11	45	330	195
		444/445 TC	731	550	406.4	355.6	102	6	4 x 5/8-11	45	330	227
		447/449 TC	726	660	406.4	355.6	67	6	4 x 5/8-11	45	330	222
SK 12307	NEMA	254/256 TC	644	350	215.9	184.15	38	4	4 x 1/2-13	45	220	180
		284/286 TC	644	350	266.7	228.6	38	4	4 x 1/2-13	45	220	180
		324/326 TC	655	400	317.5	279.4	51	4	4 x 5/8-11	45	265	191
		364/365 TC	685	450	317.5	279.4	52	4	4 x 5/8-11	45	280	221
		404/405 TC	699	550	317.5	279.4	70	6	4 x 5/8-11	45	330	235
		444/445 TC	731	550	406.4	355.6	102	6	4 x 5/8-11	45	330	267
		447/449 TC	726	660	406.4	355.6	67	6	4 x 5/8-11	45	330	262

SK 12207 - SK 12307

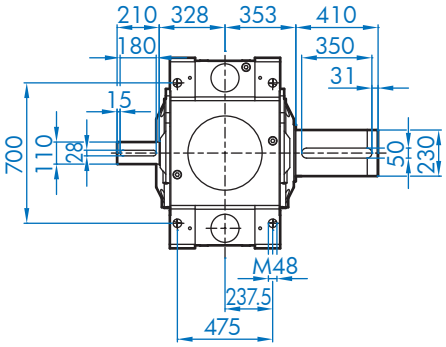


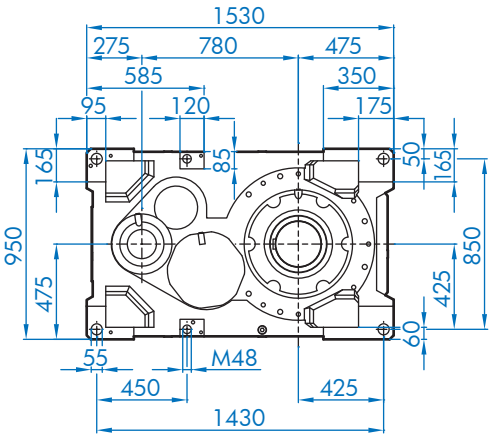
			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 12207	IEC	160	621	350	250	300	15	6.5	4 x 17.5	45	228	117
		180	621	350	250	300	15	6.5	4 x 17.5	45	228	117
		200	621	400	300	350	17	6.5	4 x 17.5	45	276	117
		225	651	450	350	400	18	6.5	8 x 17.5	22.5	290	147
		250	651	550	450	500	22	8	8 x M16	22.5	340	147
		280	651	550	450	500	22	8	8 x M16	22.5	340	147
		315	681	660	550	600	22	8	8 x 22	22.5	340	177
	TN [2]	315T	681	800	680	740	25	8	8 x 22	22.5	340	177
		355T	681	900	780	840	25	8	8 x 22	22.5	340	177
SK 12307	IEC	160	621	350	250	300	15	6.5	4 x 17.5	45	228	157
		180	621	350	250	300	15	6.5	4 x 17.5	45	228	157
		200	621	400	300	350	17	6.5	4 x 17.5	45	276	157
		225	651	450	350	400	18	6.5	8 x 17.5	22.5	290	187
		250	651	550	450	500	22	8	8 x M16	22.5	340	187
		280	651	550	450	500	22	8	8 x M16	22.5	340	187
		315	681	660	550	600	22	8	8 x 22	22.5	340	217
	TN [2]	315T	681	800	680	740	25	8	8 x 22	22.5	340	217
		355T	681	900	780	840	25	8	8 x 22	22.5	340	217

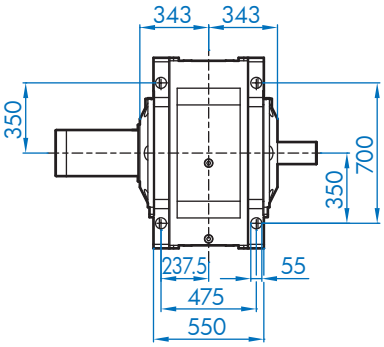
[1] Type designation and dimensions up to 200kW correspond to NORD motors
[2] Data for Transnorm motors available on request

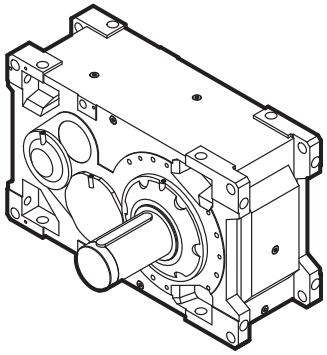
Parallel Drives
SK 13207 V
SK 13307 V

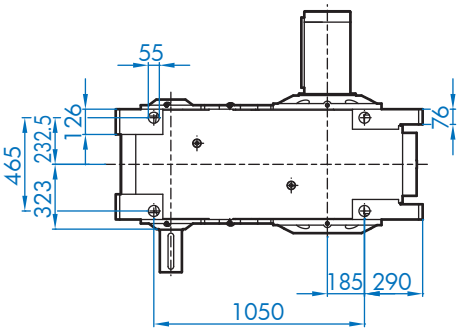
SK 13207/13307 V

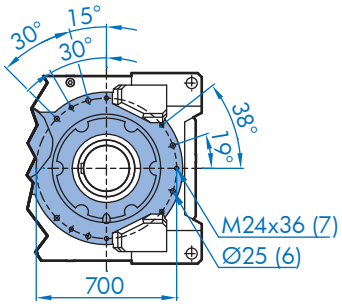




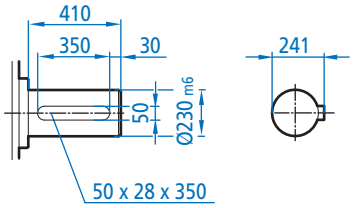




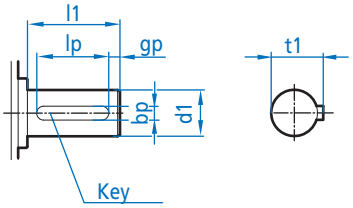




SK 13207/13307 V - Output Shaft Detail



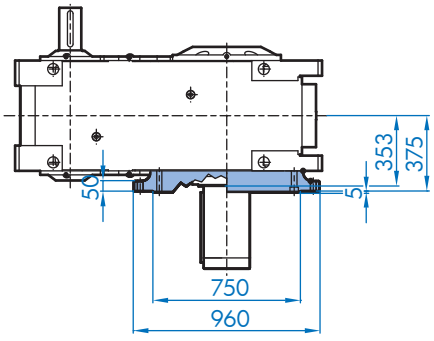
SK 13207/13307 V - Input Shaft Detail

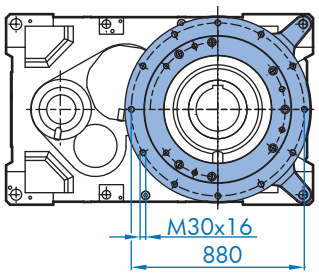


Input Shaft	Ød1	t1	l1	lp	bp	gp	key
SK 13207	110	116	210	180	28	15	28 x 16 x 180
SK 13307	80	85	170	140	22	15	22 x 14 x 140

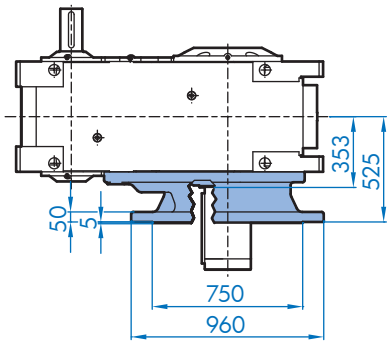
Parallel Drives
SK 13207 VF
SK 13307 VF

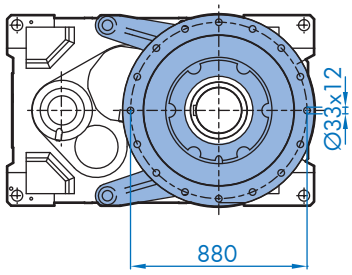
SK 13207/13307 VF



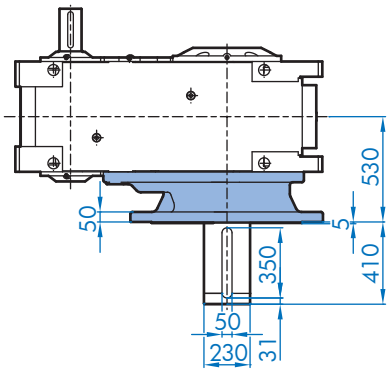


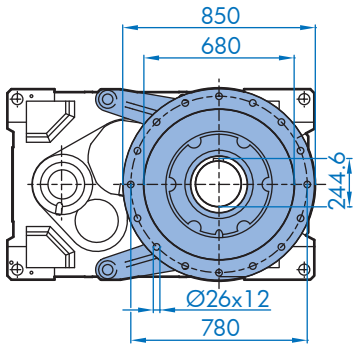
SK 13207/13307 VFK



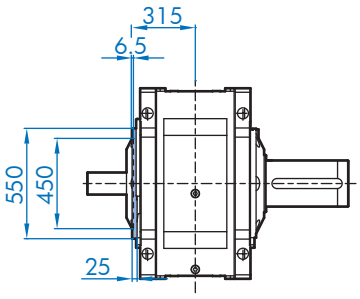


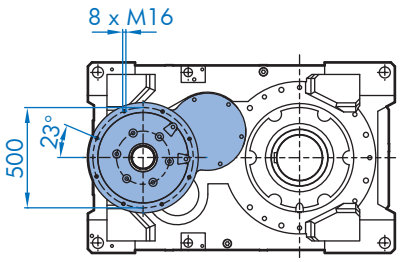
SK 13207/13307 VL2/VL3



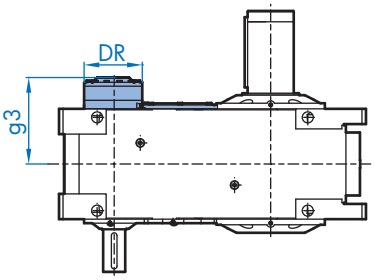


SK 13207/13307 F1 - Input Flange



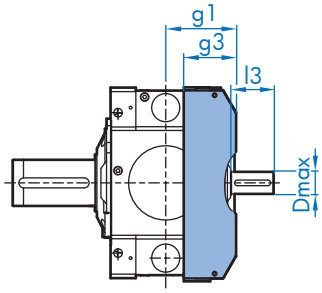


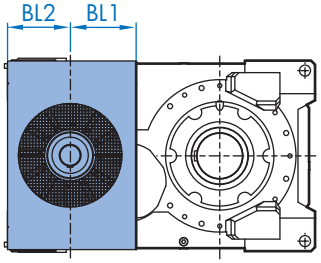
SK 13207/13307 R - Backstop



R	iN	DR	g3
SK13207	5.6-20	290	431
SK13307	22.4-112	210	410

SK 13207/13307 FAN



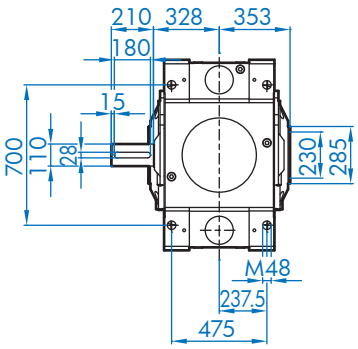


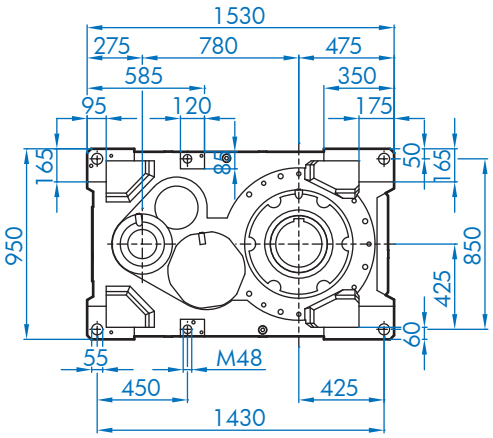
FAN	iN	B1	B2	g1	g3	l3	Dmax
SK13207	5.6-20	490	317	392	243	158	Ø200
SK13307	22.4-112	490	317	392	243	118	Ø200

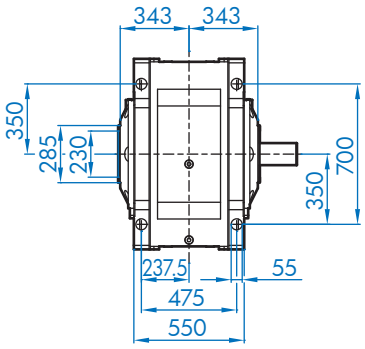
Parallel Drives
SK 13207 A
SK 13307 A

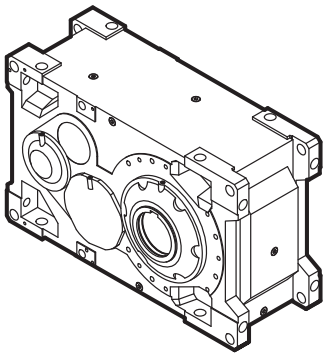
DRIVESYSTEMS

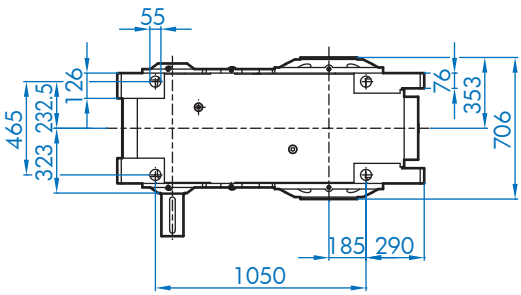
SK 13207/13307 A

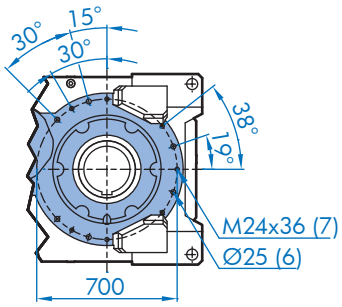




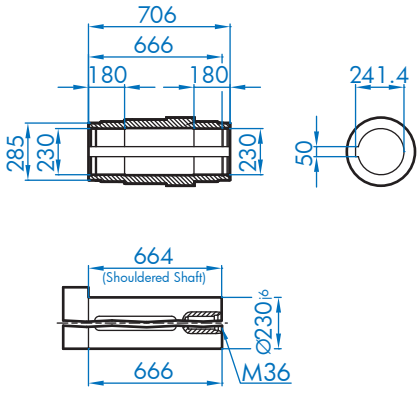






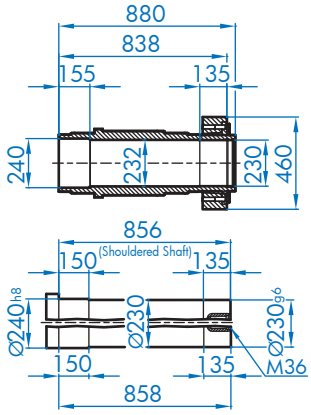


SK 13207/13307 A



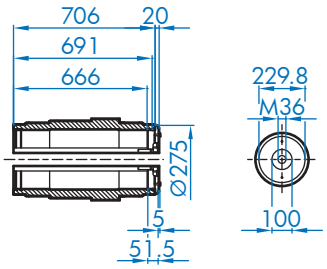
customer shaft recommendation

SK 13207/13307 AS



customer shaft recommendation

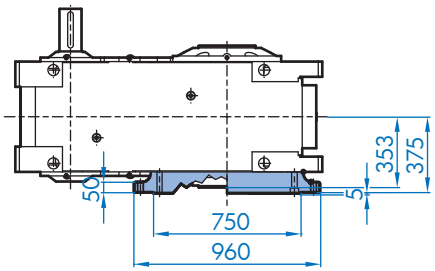
SK 13207/13307 - AB

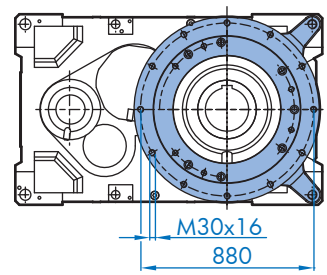


Input Shaft	Ød1	t1	l1	lp	bp	gp	key
SK 13207	110	116	210	180	28	15	28 x 16 x 180
SK 13307	80	85	170	140	22	15	22 x 14 x 140

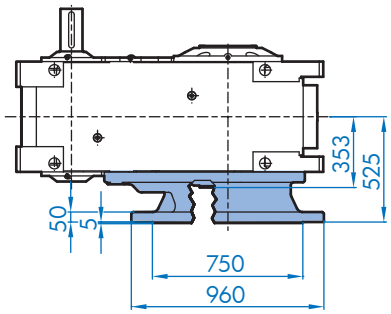
Parallel Drives
SK 13207 AF
SK 13307 AF

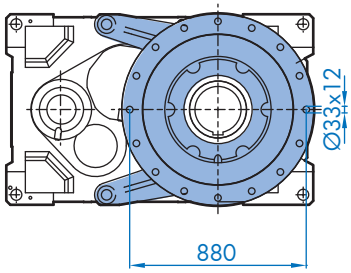
SK 13207/13307 AF



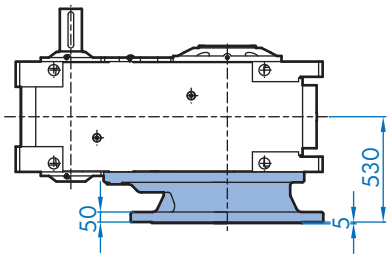


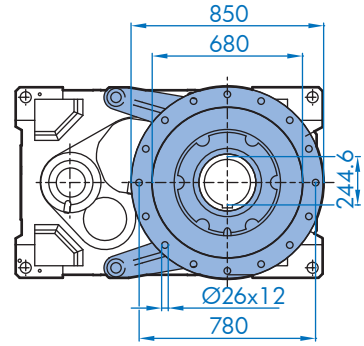
SK 13207/13307 AFK



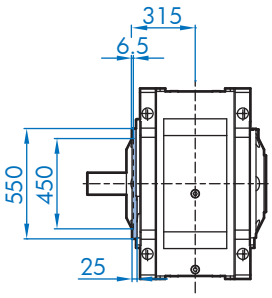


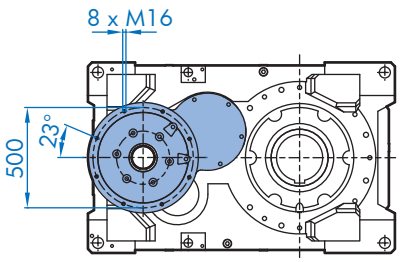
SK 13207/13307 VL2/VL3



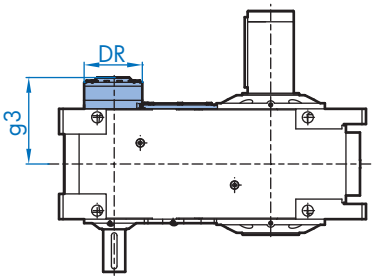


SK 13207/13307 F1 - Input Flange



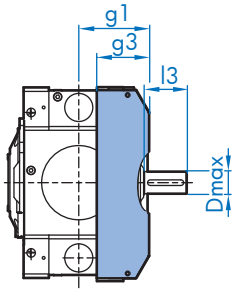


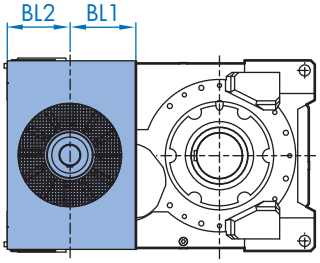
SK 13207/13307 R - Backstop



R	iN	DR	g3
SK13207	5.6-20	290	431
SK13307	22.4-112	210	410

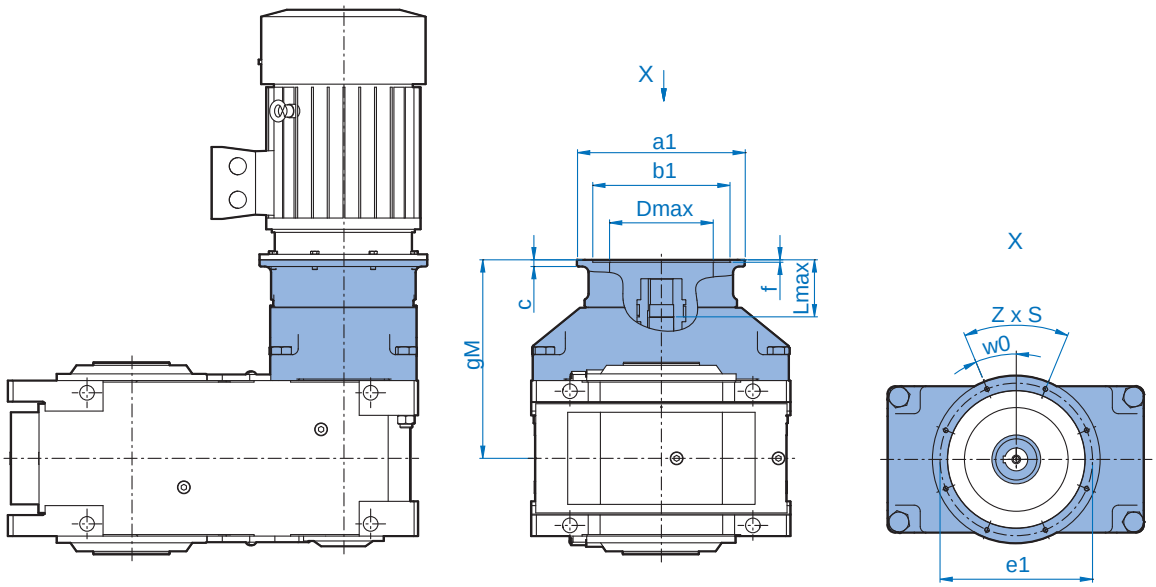
SK 13207/13307 FAN





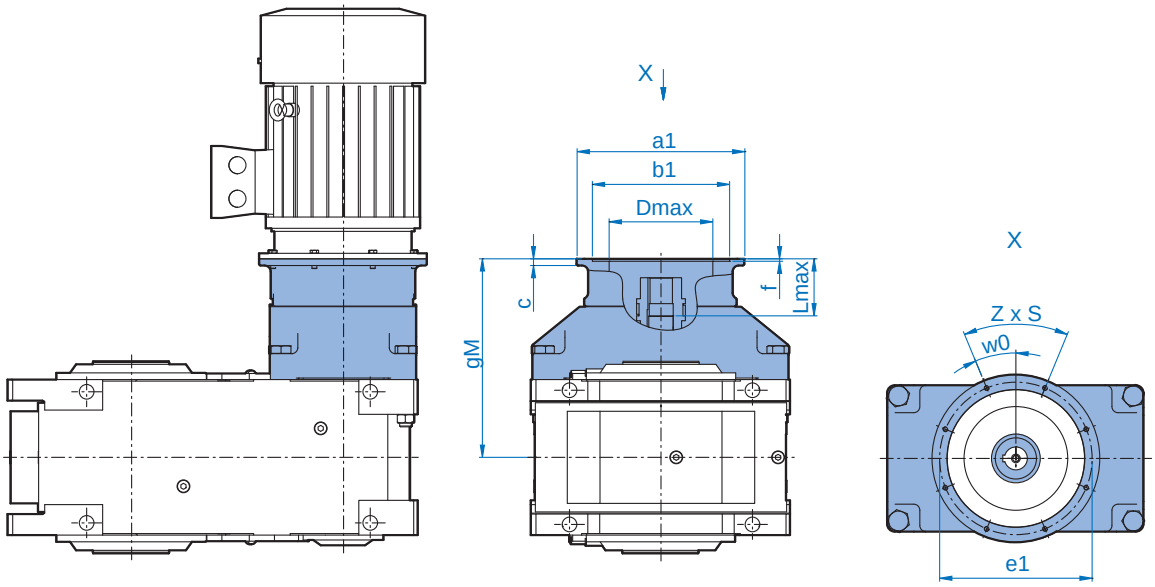
FAN	iN	B1	B2	g1	g3	l3	Dmax
SK13207	5.6-20	490	317	392	243	158	Ø200
SK13307	22.4-112	490	317	392	243	118	Ø200

SK 13207 - SK 13307



			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 13207	NEMA	254/256 TC	679	350	215.9	184.15	38	4	4 x 1/2-13	45	220	141
		284/286 TC	679	350	266.7	228.6	38	4	4 x 1/2-13	45	220	141
		324/326 TC	690	400	317.5	279.4	51	4	4 x 5/8-11	45	265	152
		364/365 TC	720	450	317.5	279.4	52	4	4 x 5/8-11	45	280	182
		404/405 TC	734	550	317.5	279.4	70	6	4 x 5/8-11	45	330	196
		444/445 TC	766	550	406.4	355.6	102	6	4 x 5/8-11	45	330	228
		447/449 TC	761	660	406.4	355.6	67	6	4 x 5/8-11	45	330	223
SK 13307	NEMA	254/256 TC	679	350	215.9	184.15	38	4	4 x 1/2-13	45	220	181
		284/286 TC	679	350	266.7	228.6	38	4	4 x 1/2-13	45	220	181
		324/326 TC	690	400	317.5	279.4	51	4	4 x 5/8-11	45	265	192
		364/365 TC	720	450	317.5	279.4	52	4	4 x 5/8-11	45	280	222
		404/405 TC	734	550	317.5	279.4	70	6	4 x 5/8-11	45	330	236
		444/445 TC	766	550	406.4	355.6	102	6	4 x 5/8-11	45	330	268
		447/449 TC	761	660	406.4	355.6	67	6	4 x 5/8-11	45	330	263

SK 13207 - SK 13307



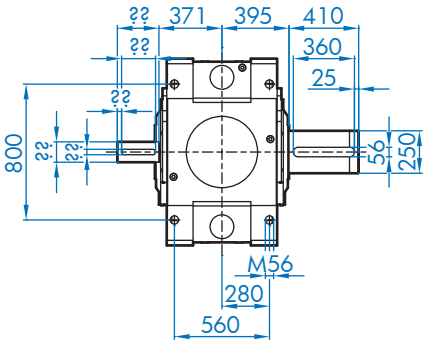
			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 13207	IEC	160	656	350	250	300	15	6.5	4 x 17.5	45	228	118
		180	656	350	250	300	15	6.5	4 x 17.5	45	228	118
		200	656	400	300	350	17	6.5	4 x 17.5	45	276	118
		225	686	450	350	400	18	6.5	8 x 17.5	22.5	290	148
		250	686	550	450	500	22	8	8 x M16	22.5	340	148
		280	686	550	450	500	22	8	8 x M16	22.5	340	148
		315	716	660	550	600	22	8	8 x 22	22.5	340	178
	TN [2]	315T	716	800	680	740	25	8	8 x 22	22.5	340	178
		355T	716	900	780	840	25	8	8 x 22	22.5	340	178
SK 13307	IEC	160	656	350	250	300	15	6.5	4 x 17.5	45	228	158
		180	656	350	250	300	15	6.5	4 x 17.5	45	228	158
		200	656	400	300	350	17	6.5	4 x 17.5	45	276	158
		225	686	450	350	400	18	6.5	8 x 17.5	22.5	290	188
		250	686	550	450	500	22	8	8 x M16	22.5	340	188
		280	686	550	450	500	22	8	8 x M16	22.5	340	188
		315	716	660	550	600	22	8	8 x 22	22.5	340	218
	TN [2]	315T	716	800	680	740	25	8	8 x 22	22.5	340	218
		355T	716	900	780	840	25	8	8 x 22	22.5	340	218

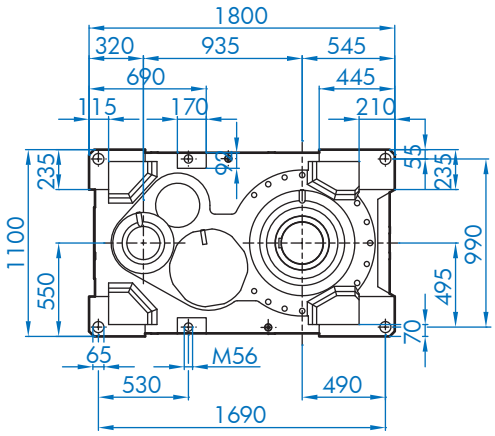
[1] Type designation and dimensions up to 200kW correspond to NORD motors
[2] Data for Transnorm motors available on request

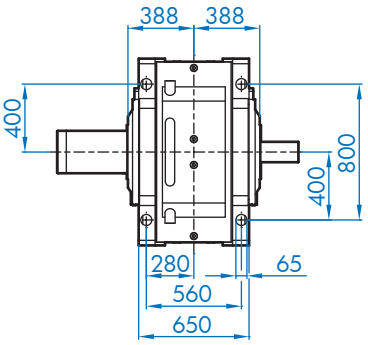
Parallel Drives
SK 15207 V
SK 15307 V

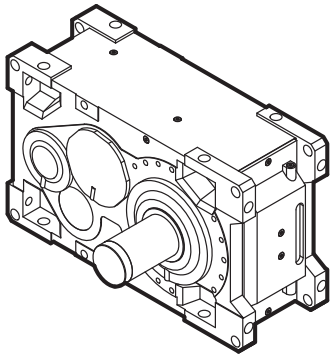
DRIVESYSTEMS

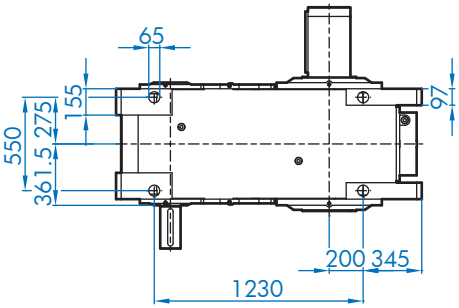
SK 15207/15307 V

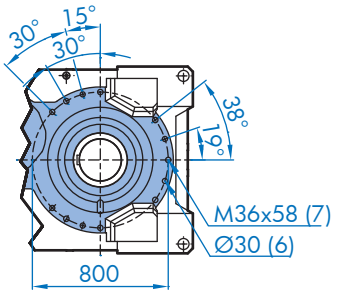




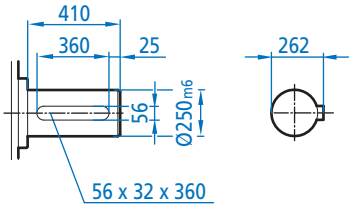




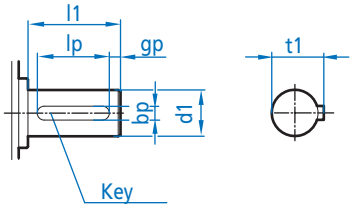




SK 15207/15307 V - Output Shaft Detail

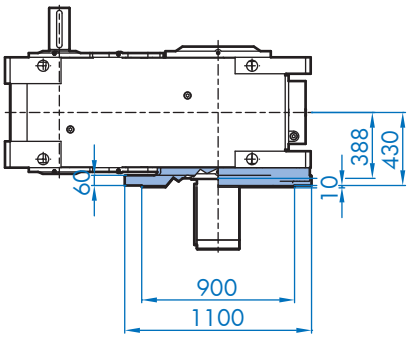


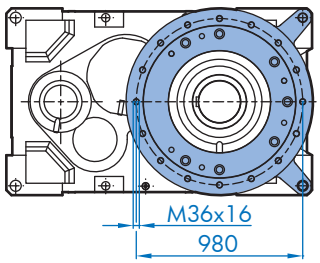
SK 15207/15307 V - Input Shaft Detail



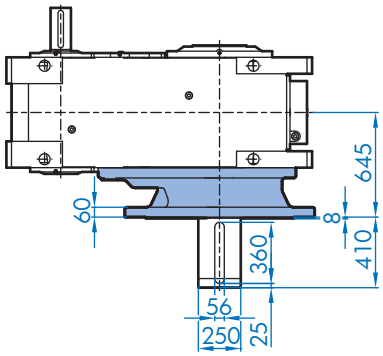
Input Sh.	Ratio	Ød1	t1	l1	lp	bp	gp	key
SK 15207	5.6 - 20	120	127	245	200	32	25	32 x 18 x 200
SK 15307	22.4 - 45	100	106	210	180	28	15	28 x 16 x 180
SK 15307	50 - 112	80	85	170	140	22	15	22 x 14 x 140

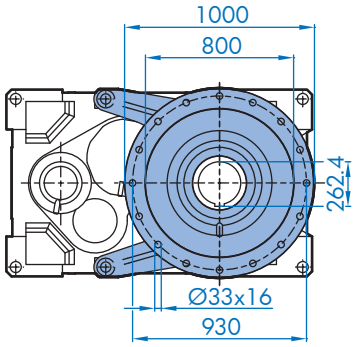
SK 15207/15307 VF



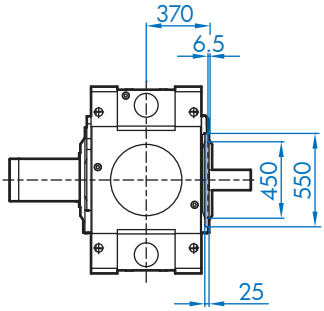


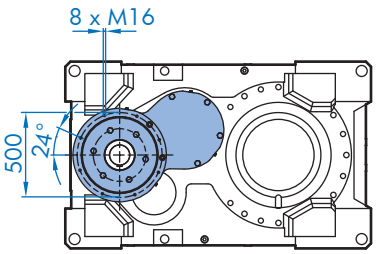
SK 15207/15307 VL2/VL3



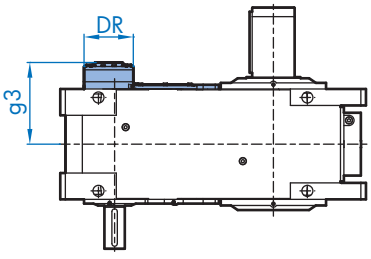


SK 15207/15307 F1 - Input Flange



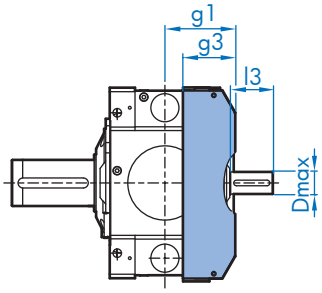


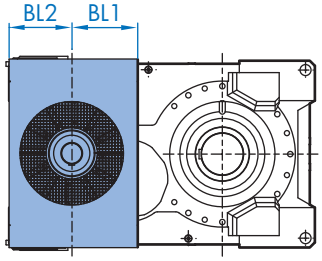
SK 15207/15307 R - Backstop



R	iN	DR	g3
SK15207	5.6-20	400	510
SK15307	22.4-112	290	485

SK 15207/15307 FAN





FAN	iN	B1	B2	g1	g3	l3	Dmax
SK15207	5.6-20	580	362	450	275	178	Ø240
SK15307	22.4-45	580	362	450	275	143	Ø240
SK15307	50-112	580	362	450	275	103	Ø240

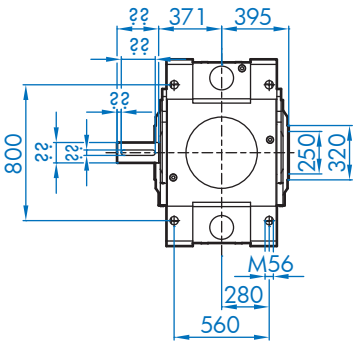
Parallel Drives
SK 15207 A
SK 15307 A

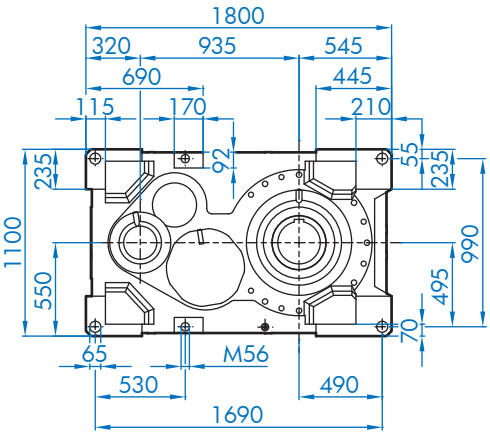
DRIVESYSTEMS

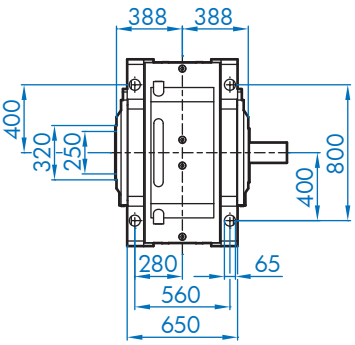
DIMENSIONS

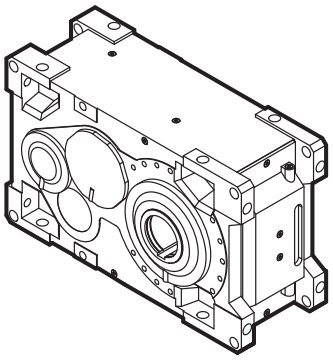
Dimensions in mm

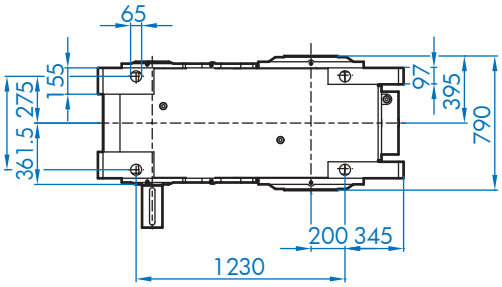
SK 15207/15307 A

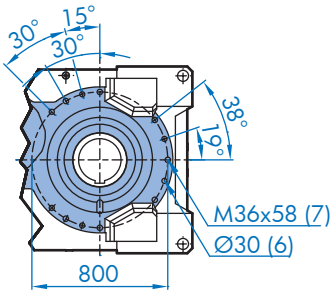




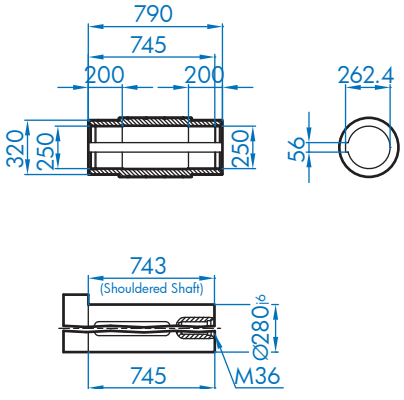






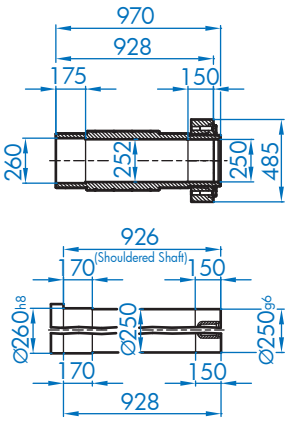


SK 15207/15307 A



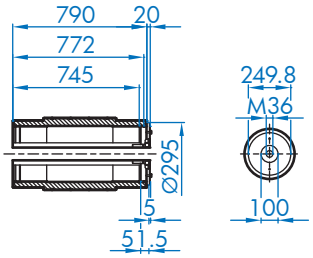
customer shaft recommendation

SK 15207/15307 AS



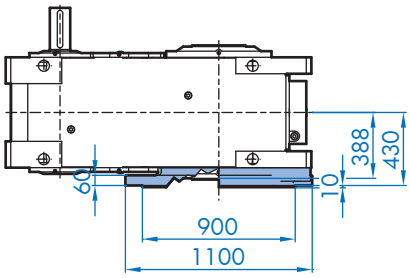
customer shaft recommendation

SK 15207/15307 - AB

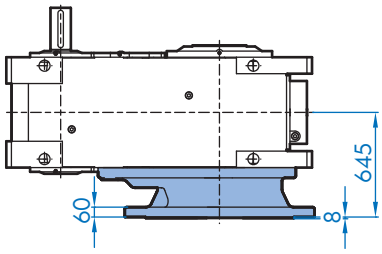


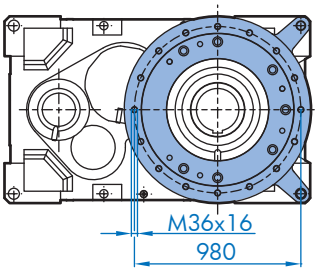
Input Sh.	Ratio	Ød1	t1	l1	lp	bp	gp	key
SK 15207	5.6 - 20	120	127	245	200	32	25	32 x 18 x 200
SK 15307	22.4 - 45	100	106	210	180	28	15	28 x 16 x 180
SK 15307	50 - 112	80	85	170	140	22	15	22 x 14 x 140

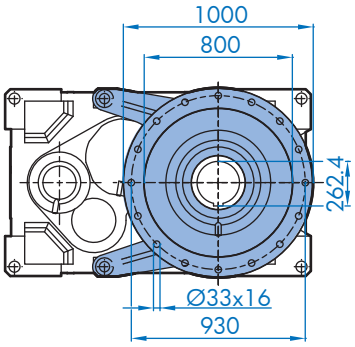
SK 15207/15307 AF



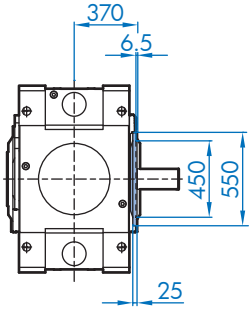
SK 15207/15307 VL2/VL3

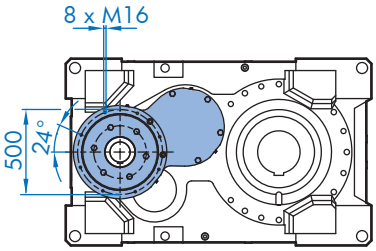




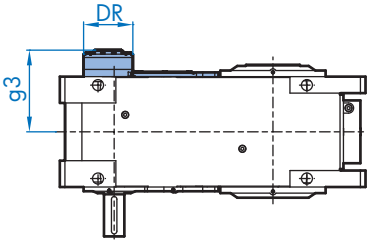


SK 15207/15307 F1 - Input Flange



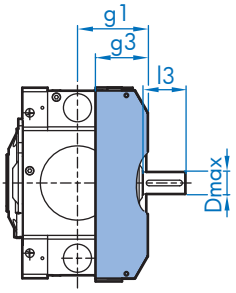


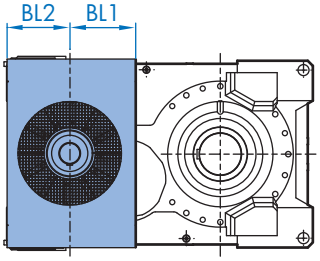
SK 15207/15307 R - Backstop



R	iN	DR	g3
SK15207	5.6-20	400	510
SK15307	22.4-112	290	485

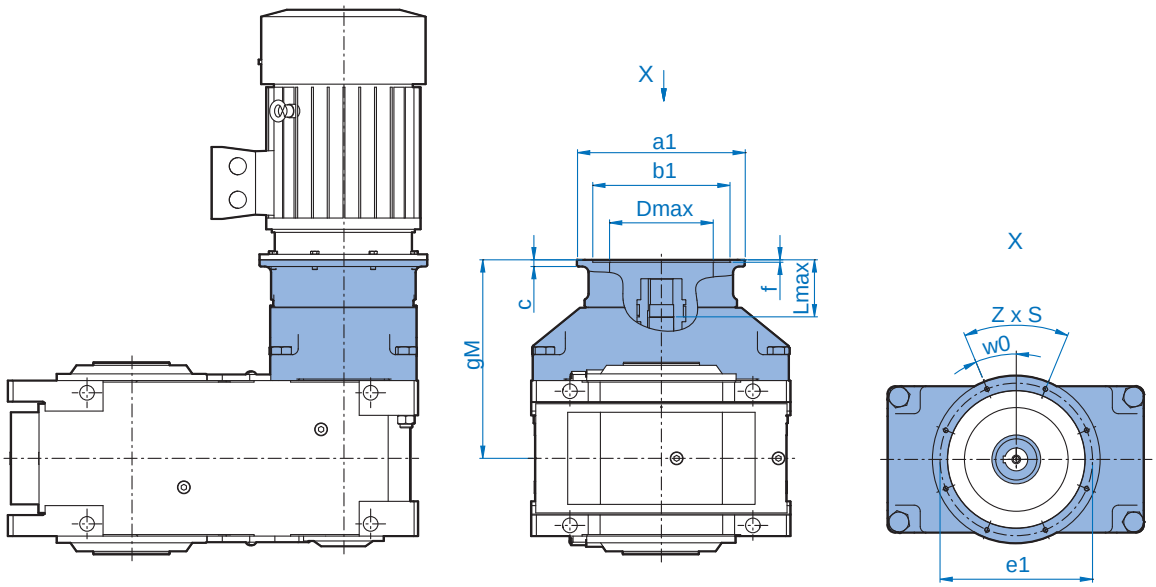
SK 15207/15307 FAN





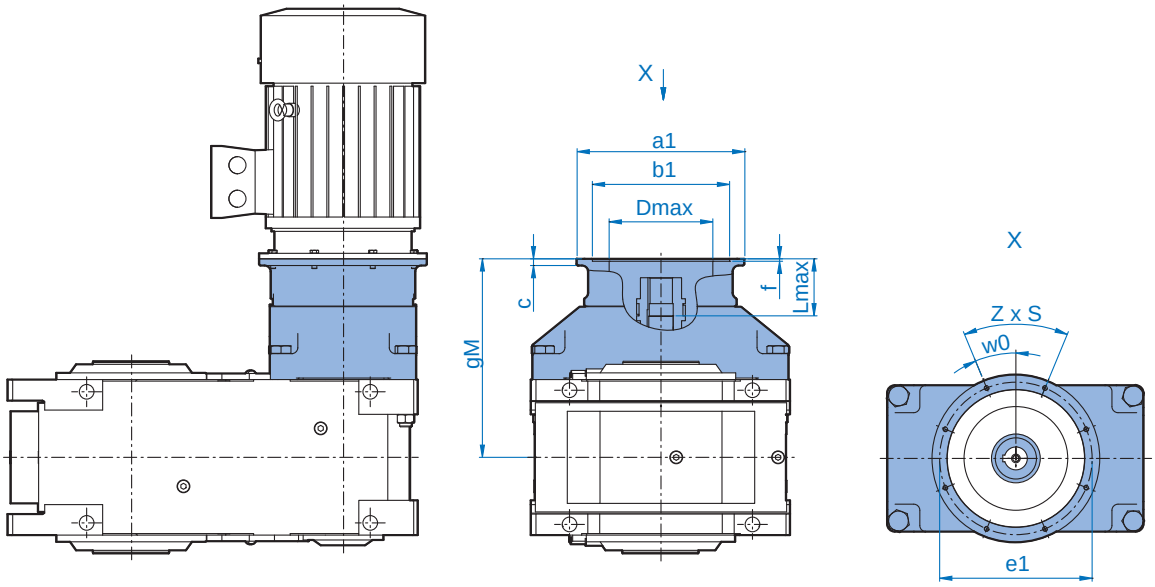
FAN	iN	B1	B2	g1	g3	l3	Dmax
SK15207	5.6-20	580	362	450	275	178	Ø240
SK15307	22.4-45	580	362	450	275	143	Ø240
SK15307	50-112	580	362	450	275	103	Ø240

SK 15207 - SK 15307



			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 15207	NEMA	254/256 TC	758	350	215.9	184.15	38	4	4 x 1/2-13	45	220	142
		284/286 TC	758	350	266.7	228.6	38	4	4 x 1/2-13	45	220	142
		324/326 TC	769	400	317.5	279.4	51	4	4 x 5/8-11	45	265	153
		364/365 TC	799	450	317.5	279.4	52	4	4 x 5/8-11	45	280	183
		404/405 TC	813	550	317.5	279.4	70	6	4 x 5/8-11	45	330	197
		444/445 TC	845	550	406.4	355.6	102	6	4 x 5/8-11	45	330	229
		447/449 TC	840	660	406.4	355.6	67	6	4 x 5/8-11	45	330	224
SK 15307	NEMA	254/256 TC	758	350	215.9	184.15	38	4	4 x 1/2-13	45	220	177 / 217
		284/286 TC	758	350	266.7	228.6	38	4	4 x 1/2-13	45	220	177 / 217
		324/326 TC	769	400	317.5	279.4	51	4	4 x 5/8-11	45	265	188 / 228
		364/365 TC	799	450	317.5	279.4	52	4	4 x 5/8-11	45	280	218 / 258
		404/405 TC	813	550	317.5	279.4	70	6	4 x 5/8-11	45	330	232 / 272
		444/445 TC	845	550	406.4	355.6	102	6	4 x 5/8-11	45	330	264 / 304
		447/449 TC	840	660	406.4	355.6	67	6	4 x 5/8-11	45	330	259 / 299

SK 15207 - SK 15307



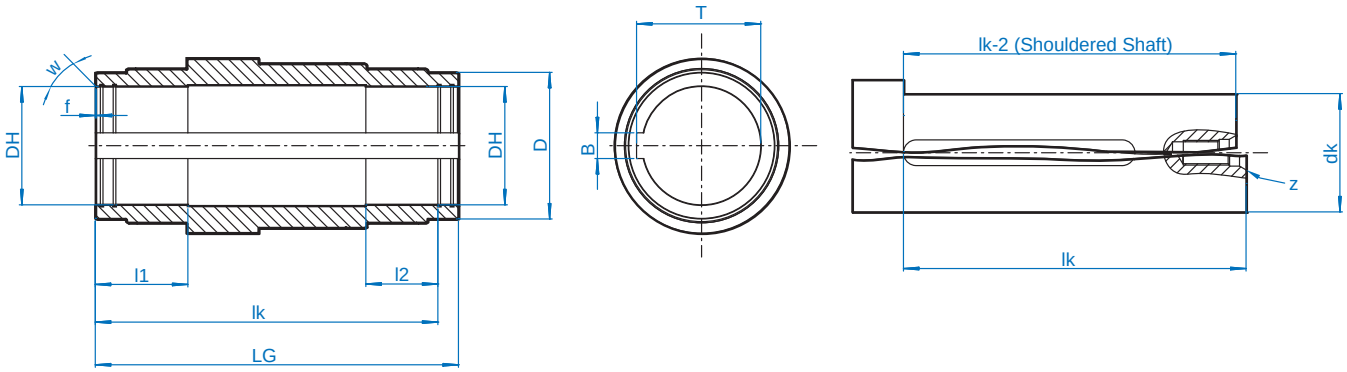
			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 15207	IEC	160	735	350	250	300	15	6.5	4 x 17.5	45	228	119
		180	735	350	250	300	15	6.5	4 x 17.5	45	228	119
		200	735	400	300	350	17	6.5	4 x 17.5	45	276	119
		225	765	450	350	400	18	6.5	8 x 17.5	22.5	290	149
		250	765	550	450	500	22	8	8 x M16	22.5	340	149
		280	765	550	450	500	22	8	8 x M16	22.5	340	149
		315	795	660	550	600	22	8	8 x 22	22.5	340	179
	TN [2]	315T	795	800	680	740	25	8	8 x 22	22.5	340	179
		355T	795	900	780	840	25	8	8 x 22	22.5	340	179
SK 15307	IEC	160	735	350	250	300	15	6.5	4 x 17.5	45	228	154 / 194
		180	735	350	250	300	15	6.5	4 x 17.5	45	228	154 / 194
		200	735	400	300	350	17	6.5	4 x 17.5	45	276	154 / 194
		225	765	450	350	400	18	6.5	8 x 17.5	22.5	290	184 / 224
		250	765	550	450	500	22	8	8 x M16	22.5	340	184 / 224
		280	765	550	450	500	22	8	8 x M16	22.5	340	184 / 224
		315	795	660	550	600	22	8	8 x 22	22.5	340	214 / 254
	TN [2]	315T	795	800	680	740	25	8	8 x 22	22.5	340	214 / 254
		355T	795	900	780	840	25	8	8 x 22	22.5	340	214 / 254

[1] Type designation and dimensions up to 200kW correspond to NORD motors

[2] Data for Transnorm motors available on request

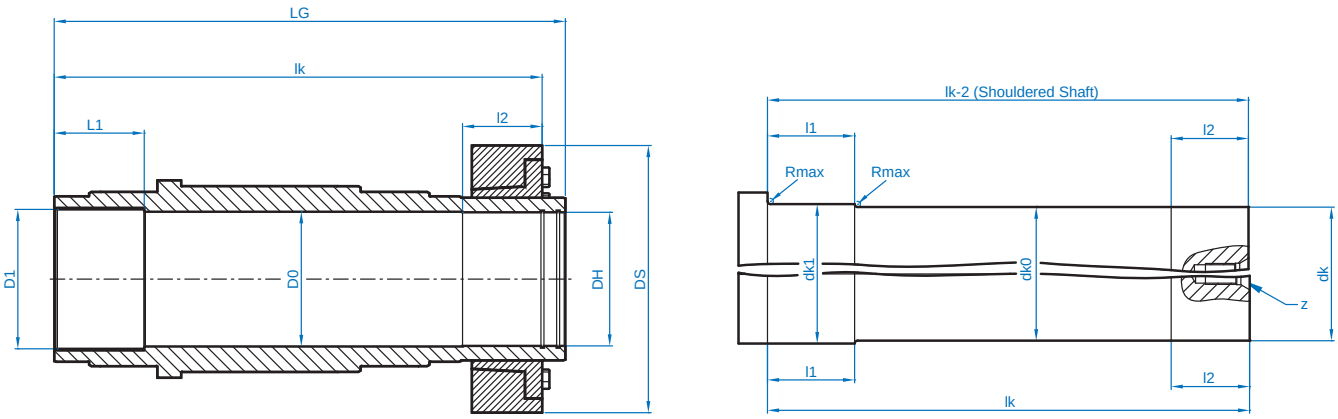
A - Keyed Hollow Shaft
AS - Shrink Disc with Hollow Shaft

A - Keyed Hollow Shaft & Customer Shaft Detail



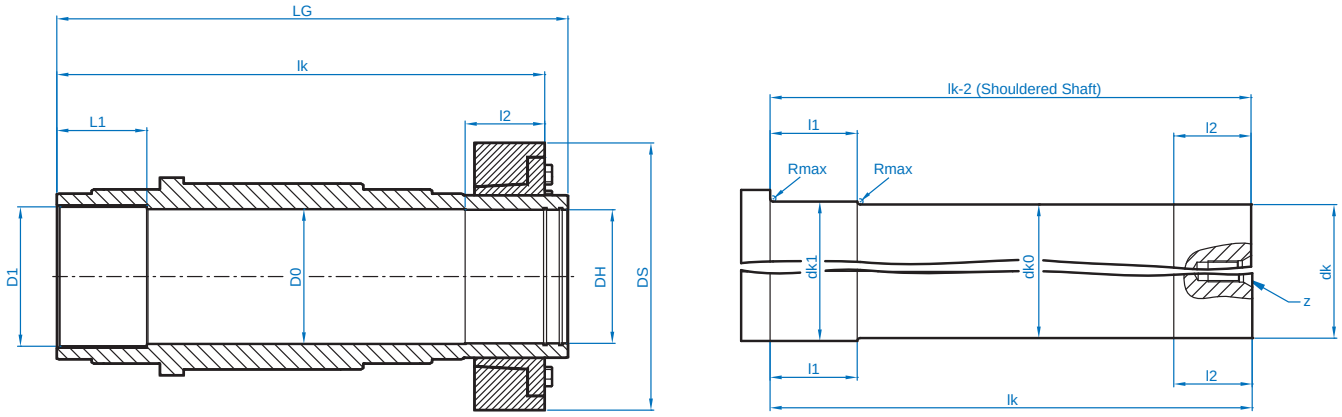
	DH	LG	dk	lk	lk-2	l1	l2	D	f	w	B	T	z
SK 7..07	ø125 H7	394	ø125 h6	369	367	100	80	ø160	2	30	32	132.7	M24
SK 8..07	ø125 H7	394	ø125 h6	369	367	100	80	ø160	2	30	32	132.7	M24
SK 9..07	ø160 H7	506	ø160 h6	486	484	130	110	ø220	2	30	40	169.4	M30
SK 10..07	ø160 H7	506	ø160 h6	486	484	130	110	ø220	2	30	40	169.4	M30
SK 11..07	ø170 H7	560	ø170 h6	525	523	140	105	ø240	2	30	40	179.4	M30
SK 12..07	ø190 H7	630	ø190 h6	595	593	160	125	ø250	2	30	45	200.4	M30
SK 13..07	ø230 H7	706	ø230 h6	666	664	180	140	ø285	2	30	50	241.4	M36
SK 15..07	ø250 H7	790	ø250 h6	745	743	200	155	ø320	2	30	56	262.4	M36

AS - Shrink Disc Hollow Shaft



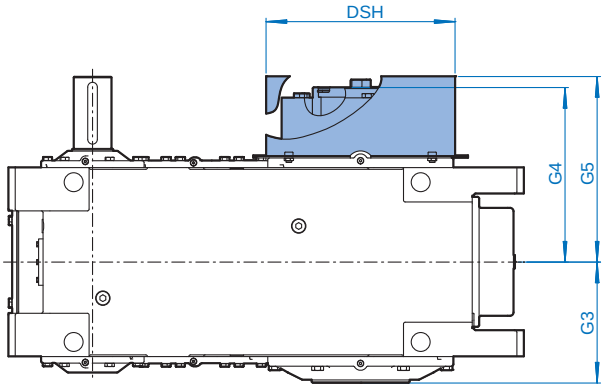
	DH	D0	D1	L1	DS	LG	dk1	dk0	dk	lk	lk-2	l1	l2	Rmax	z
SK 7..07	ø125 H7	ø125.5	ø125	90	ø300	733	ø125 h8	ø125	ø125 h6	713	711	100	65	3	M24
SK 8..07	ø125 H7	ø125.5	ø125	90	ø300	733	ø125 h8	ø125	ø125 h6	713	711	100	65	3	M24
SK 9..07	ø160 H7	ø160.5	ø160	110	ø320	889.5	ø160 h8	ø160	ø160 h6	854.5	852.5	110	82	3	M30
SK 10..07	ø160 H7	ø160.5	ø160	110	ø320	889.5	ø160 h8	ø160	ø160 h6	854.5	852.5	110	82	3	M30
SK 11..07	ø170 H7	ø172	ø180	125	ø370	690	ø180 h8	ø170	ø170 g6	658	656	125	105	5	M30
SK 12..07	ø190 H7	ø192	ø200	135	ø405	770	ø200 h8	ø190	ø190 g6	736	734	130	120	5	M30
SK 13..07	ø230 H7	ø232	ø240	155	ø460	880	ø240 h8	ø230	ø230 g6	838	836	150	135	5	M36
SK 15..07	ø250 H7	ø252	ø260	175	ø485	970	ø260 h8	ø250	ø250 g6	928	926	170	150	5	M36

AFSAVL2/3 - Agitator & Drywell - Hollow Shaft with Shrink Disc



	DH	D0	D1	L1	DS	LG	dk1	dk0	dk	lk	lk2	l1	l2	Rmax	z
SK 7..07	ø125 H7	ø125.5	ø125	90	ø300	733	ø125 h8	ø125	ø125 h6	713	711	100	65	3	M24
SK 8..07	ø125 H7	ø125.5	ø125	90	ø300	733	ø125 h8	ø125	ø125 h6	713	711	100	65	3	M24
SK 9..07	ø160 H7	ø160.5	ø160	110	ø320	889.5	ø160 h8	ø125	ø160 h6	854.5	852.5	110	82	3	M30
SK 10..07	ø160 H7	ø160.5	ø160	110	ø320	889.5	ø160 h8	ø125	ø160 h6	854.5	852.5	110	82	3	M30
SK 11..07	ø170 H7	ø172	ø180	125	ø370	860	ø180 h8	ø170	ø170 g6	828	826	125	105	5	M30
SK 12..07	ø190 H7	ø192	ø200	135	ø405	940	ø200 h8	ø190	ø190 g6	906	904	130	120	5	M30
SK 13..07	ø230 H7	ø232	ø240	155	ø460	1070	ø240 h8	ø230	ø230 g6	1028	1026	150	135	5	M36
SK 15..07	ø250 H7	ø252	ø260	175	ø485	1220	ø260 h8	ø250	ø250 g6	1178	1176	170	150	5	M36

H/H66 - Hollow Shaft/Shrink Disc/ IP66 cover

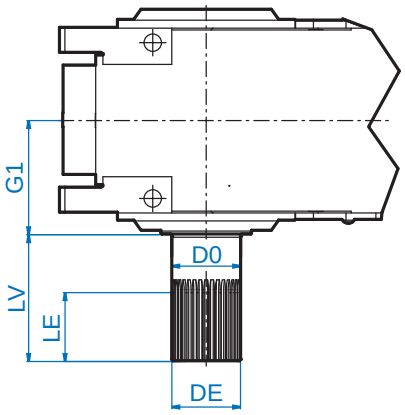


	DSH	G3	G4	G5
SK 11..07	ø 460	280	410	440
SK 12..07	ø 500	315	455	480
SK 13..07	ø 550	353	527	555
SK 15..07	ø 630	395	575	605

Other sizes available upon request

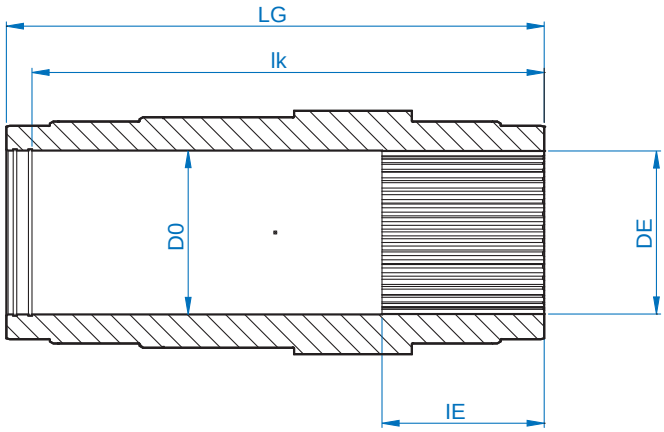
EV - Splined Solid Shaft
EA - Splined Hollow Shaft

EV - Splined Solid Shaft



	DE	LE	G1	LV	D0
SK 7..07	W 130 x 5 x 30 x 24 - DIN 5480	85	197	250	ø 130
SK 8..07	W 130 x 5 x 30 x 24 - DIN 5480	85	197	250	ø 130
SK 9..07	W 140 x 3 x 30 x 45 - DIN 5480	100	253	300	ø 140
SK 10..07	W 140 x 3 x 30 x 45 - DIN 5480	100	253	300	ø 140
SK 11..07	W 170 x 5 x 30 x 32 - DIN 5480	160	280	300	ø 170
SK 12..07	W 190 x 5 x 30 x 36 - DIN 5480	190	315	350	ø 190
SK 13..07	W 220 x 5 x 30 x 42 - DIN 5480	215	353	410	ø 220
SK 15..07	W 250 x 5 x 30 x 48 - DIN 5480	245	395	410	ø 250

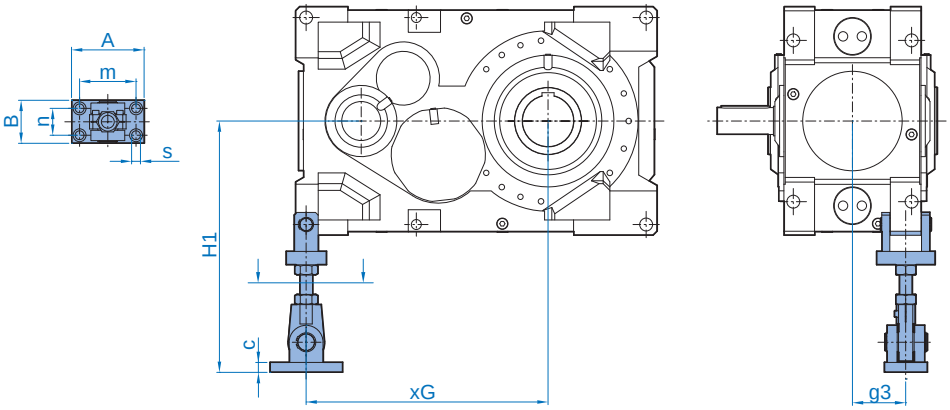
EA - Splined Hollow Shaft



	DE	LE	LG	D0	lk
SK 7..07	N 130 x 5 x 30 x 24 - DIN 5480	85	394	ø 130	374
SK 8..07	N 130 x 5 x 30 x 24 - DIN 5480	85	394	ø 130	374
SK 9..07	N 140 x 3 x 30 x 45 - DIN 5480	100	506	ø 140	476
SK 10..07	N 140 x 3 x 30 x 45 - DIN 5480	100	506	ø 140	476
SK 11..07	N 170 x 5 x 30 x 32 - DIN 5480	160	560	ø 170	525
SK 12..07	N 190 x 5 x 30 x 36 - DIN 5480	190	630	ø 190	595
SK 13..07	N 220 x 5 x 30 x 42 - DIN 5480	215	706	ø 220	666
SK 15..07	N 250 x 5 x 30 x 48 - DIN 5480	245	790	ø 250	745

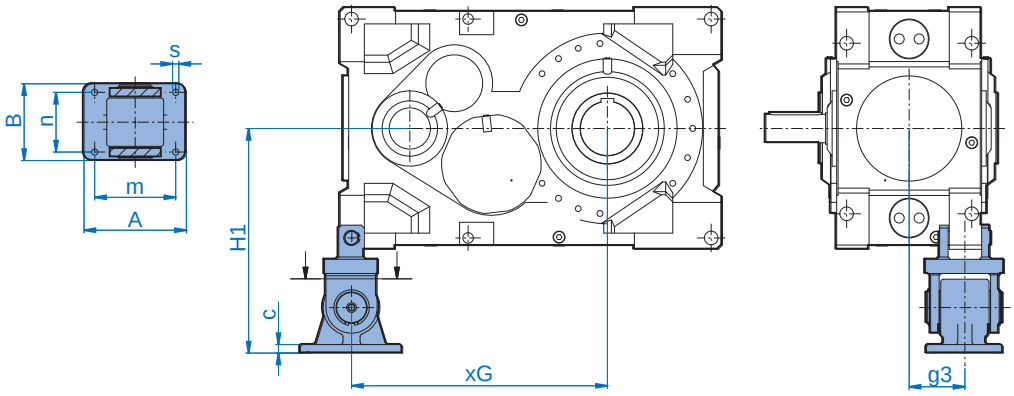
D - Torque Support
ED - Elastic Torque Support

D - Torque Support



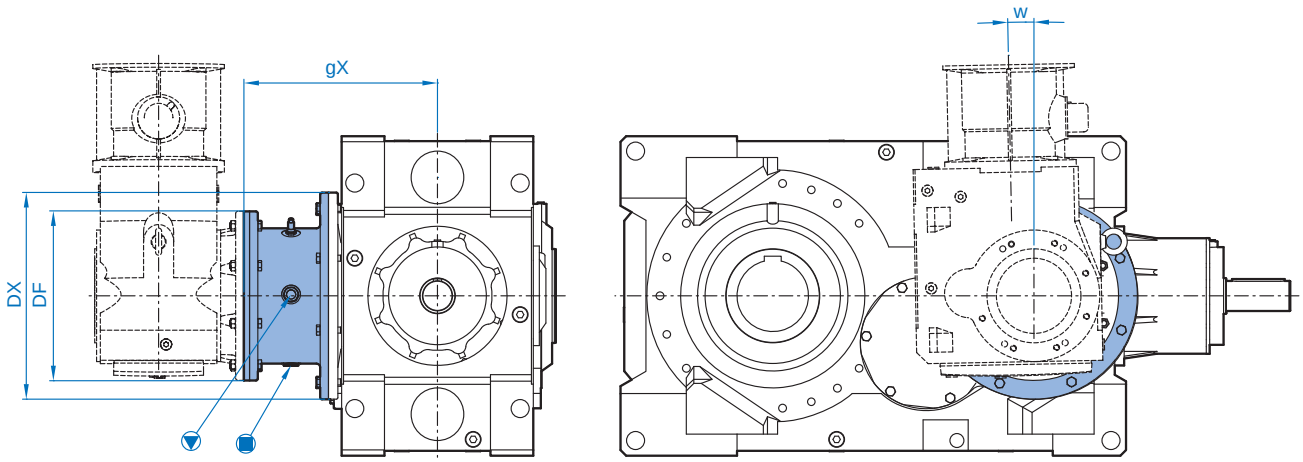
	H1max	H1min	xG	g3	c	A	B	m	n	s
SK 7..07	645	605	550	150.5	25	240	220	180	160	22
SK 8..07	675	635	575	150.5	25	240	220	180	160	22
SK 9..07	715	675	692.5	174	25	240	220	180	160	22
SK 10..07	750	710	722	174	25	240	220	180	160	22
SK 11..07	865	815	800	165	29	240	220	180	160	22
SK 12..07	935	885	900	195	29	240	220	180	160	22
SK 13..07	990	940	1005	210	29	290	250	220	180	26
SK 15..07	1120	1070	1200	247.5	39	330	300	250	220	33

ED - Elastic Torque Support



	H1	xG	g3	c	A	B	m	n	s
SK 7..07	490	550	150.5	22	200	160	160	120	22
SK 8..07	520	575	150.5	22	200	160	160	120	22
SK 9..07	655	692.5	174	25	200	200	140	140	22
SK 10..07	690	722	174	25	200	200	140	140	22
SK 11..07	740	800	167.5	30	360	270	285	210	22
SK 12..07	790	900	196	30	360	270	285	210	22
SK 13..07	890	1005	210	40	400	320	310	230	33
SK 15..07	980	1200	245.5	40	400	320	310	230	33

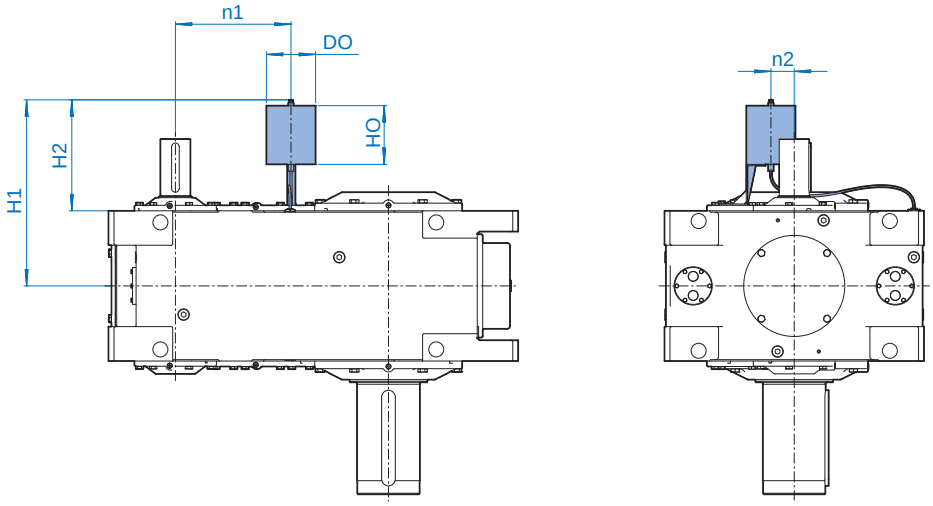
WX - Auxillary Drive



		DX	DF	gX	w
SK 7..07	SK 9022.1 VF	ø 350	ø 250	371.5	0°
	SK 9042.1 VF	ø 350	ø 350	371.5	0°
SK 8..07	SK 9022.1 VF	ø 350	ø 250	371.5	0°
	SK 9042.1 VF	ø 350	ø 350	371.5	0°
SK 9..07	SK 9032.1 VF	ø 350	ø 250	404	0°
	SK 9042.1 VF	ø 350	ø 350	404	0°
SK 10..07	SK 9032.1 VF	ø 350	ø 250	404	0°
	SK 9042.1 VF	ø 350	ø 350	404	0°
SK 11..07	SK 9052.1 VF	ø 450	450	465	1°
	SK 9072.1 VF	ø 450	450	445	1°
SK 12..07	SK 9072.1 VF	ø 550	450	545	1°
	SK 9082.1 VF	ø 550	450	515	1°
SK 13..07	SK 9072.1 VF	ø 550	450	565	1°
	SK 9082.1 VF	ø 550	450	535	1°
SK 15..07	SK 9082.1 VF	ø 550	550	655	1°
	SK 9092.1 VF	ø 550	660	620	1°

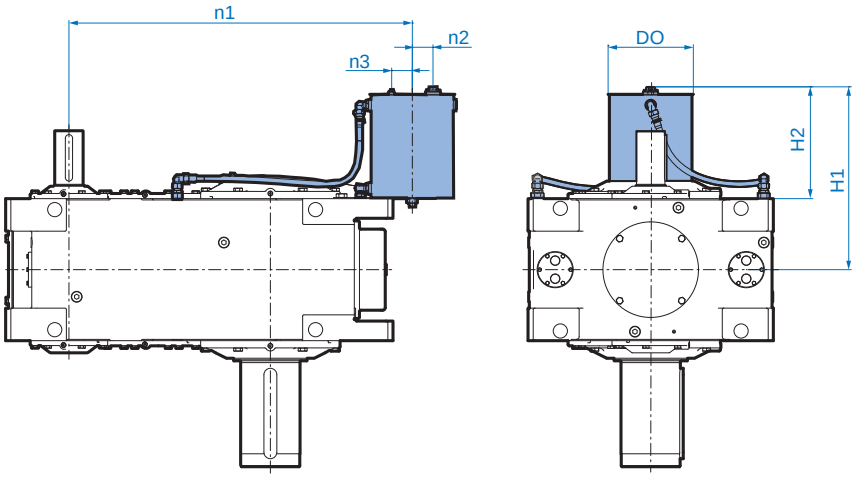
OA - Oil Expansion Chamber
OT - Oil Tank

OA - Oil Expansion Chamber



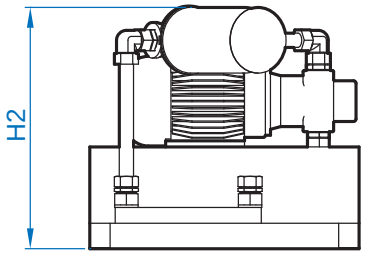
M5 / M6	DO	HO	H1	H2	n1	n2
SK 11..07	ø 180	215	625	406	335	70
SK 12..07	ø 180	215	660	406	375	75
SK 13..07	ø 180	215	680	406	425	85
SK 15..07	ø 180	215	735	406	500	100

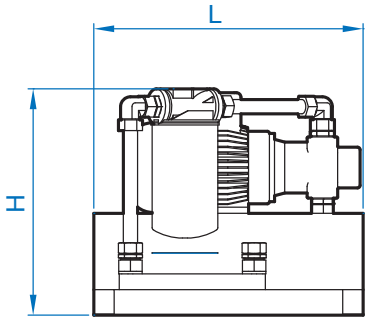
OT - Oil Tank

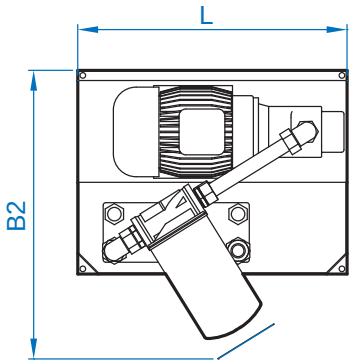


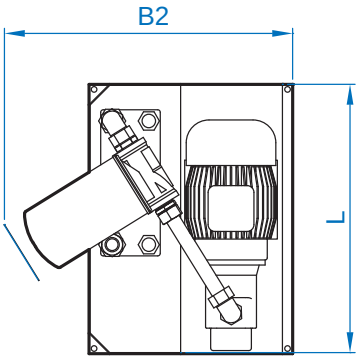
M5 / M6	DO	HO	H1	H2	n1	n2	n3
SK 11..07	ø 190	400	645	425	1060	80	80
SK 12..07	ø 330	400	730	477	1185	80	80
SK 13..07	ø 330	400	810	535	1330	80	80
SK 15..07	ø 330	400	965	636	1580	80	80

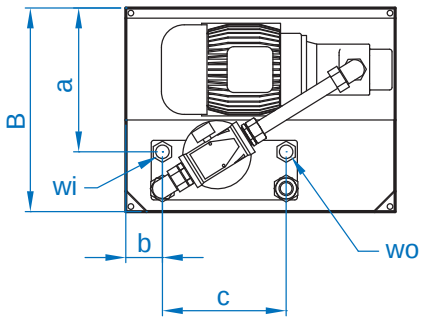
CS1 - Water Cooler





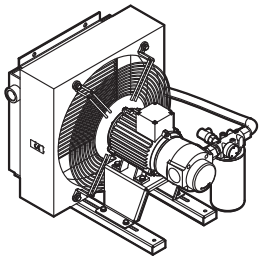


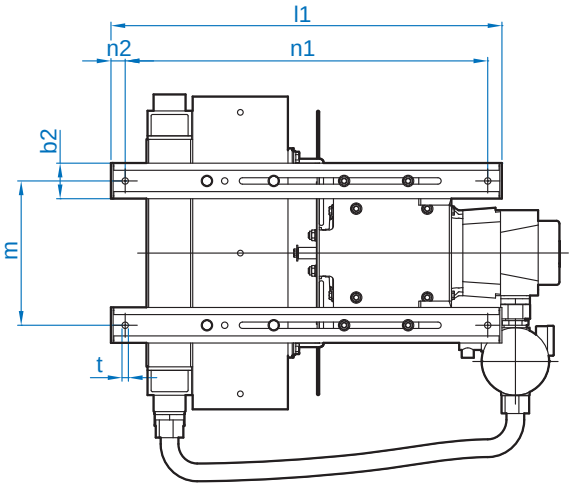


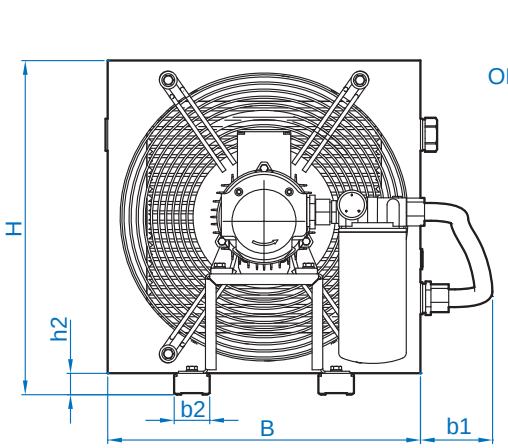


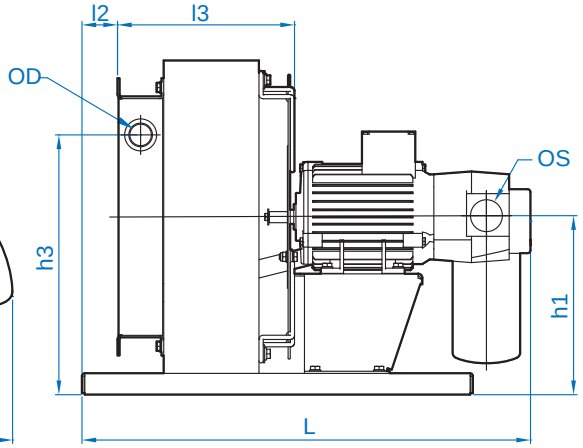
	L	B	B2	H	H2	a	b	c	wi	wo
A	480	420	500	400	430	250	80	278	G 1/2	G 1/2
B	520	394	530	431	450	287	175.5	234	G 3/4	G 3/4
C	520	394	530	431	450	287	175.5	234	G 3/4	G 3/4
D	530	450	570	450	480	282	70	243	G 3/4	G 3/4
E	530	450	570	450	480	282	70	243	G 3/4	G 3/4
F	530	450	570	450	480	282	70	243	G 3/4	G 3/4
G	600	550	650	500	530	340	50	320	G 1	G 1
H	600	550	650	500	530	340	50	320	G 1	G 1

CS2 - Air Cooler





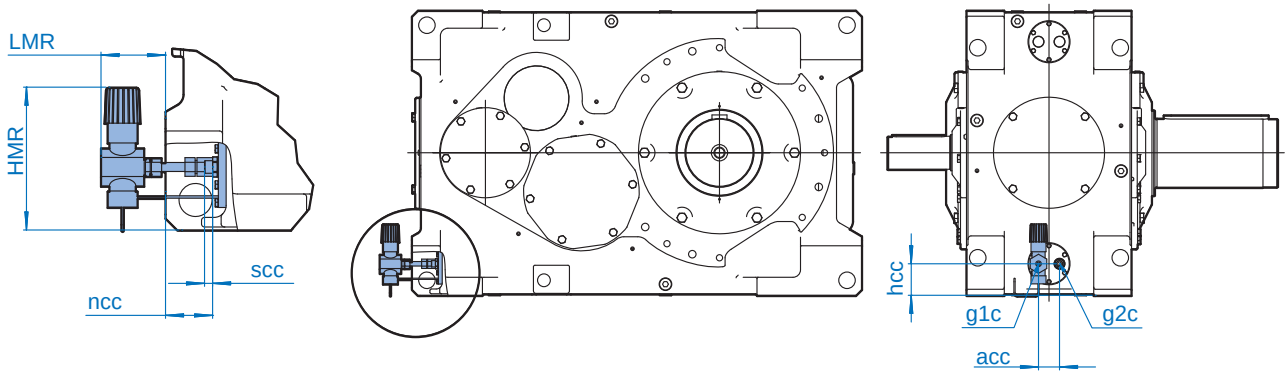




	L	l1	l2	l3	B	b1	b2	H	h1	h2	h3	n1	n2	m	t	os	od
A	650		50		440	144		395	250			610	20	203	ø14	G1 1/2	G1
B	632	550	50	215	440	103	50	470	262	30	136	510	20	203	ø9	G1 1/2	G1
C	632	550	50	215	440	103	50	470	262	30	136	510	20	203	ø9	G1 1/2	G1
D	718	650	70	265	580	104	50	470	322	30	204	610	20	356	ø14	G1 1/2	G1
E	718	650	70	265	580	104	50	470	322	30	204	610	20	356	ø14	G1 1/2	G1
F	718	650	70	265	580	104	50	470	322	30	204	610	20	356	ø14	G1 1/2	G1
G	832	650	70	343	692	99	50	866	450	30	196	610	20	356	ø14	G1 1/2	G1 1/4
H	832	650	70	343	692	99	50	866	450	30	196	610	20	356	ø14	G1 1/2	G1 1/4

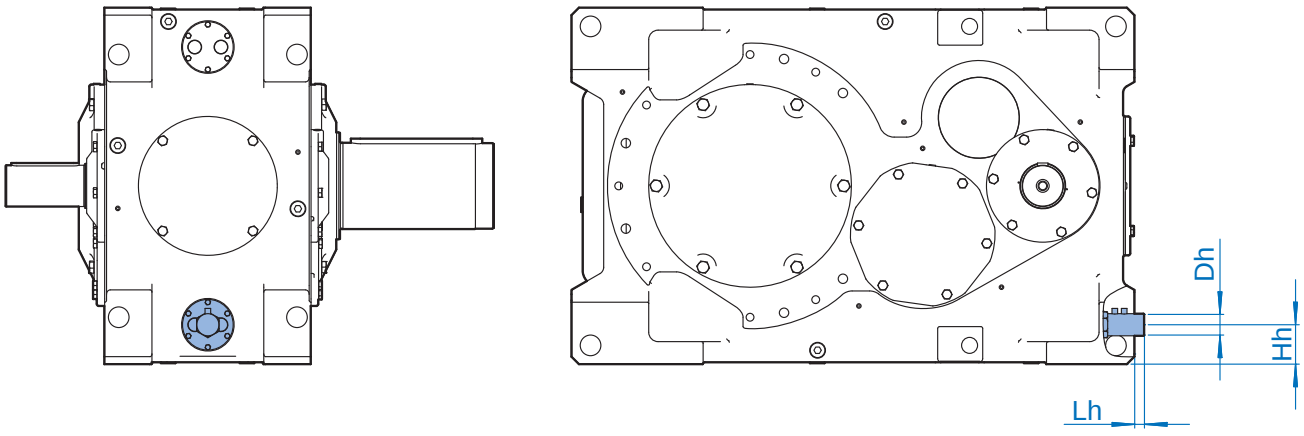
CC - Internal Water Cooler
OH - Oil Heater

CC - Internal Water Cooler (Cooling Coil)



	g1c	g2c	scc	acc	hcc	ncc	HMR	LMR
SK 11..07	G 1/2	G 1/2	13	70	90	62	238	108
SK 12..07	G 1/2	G 1/2	13	70	110	70	238	108
SK 13..07	G 1/2	G 1/2	13	70	100	78	238	108
SK 15..07	G 1/2	G 1/2	13	70	110	93	238	108

OH - Oil Heater

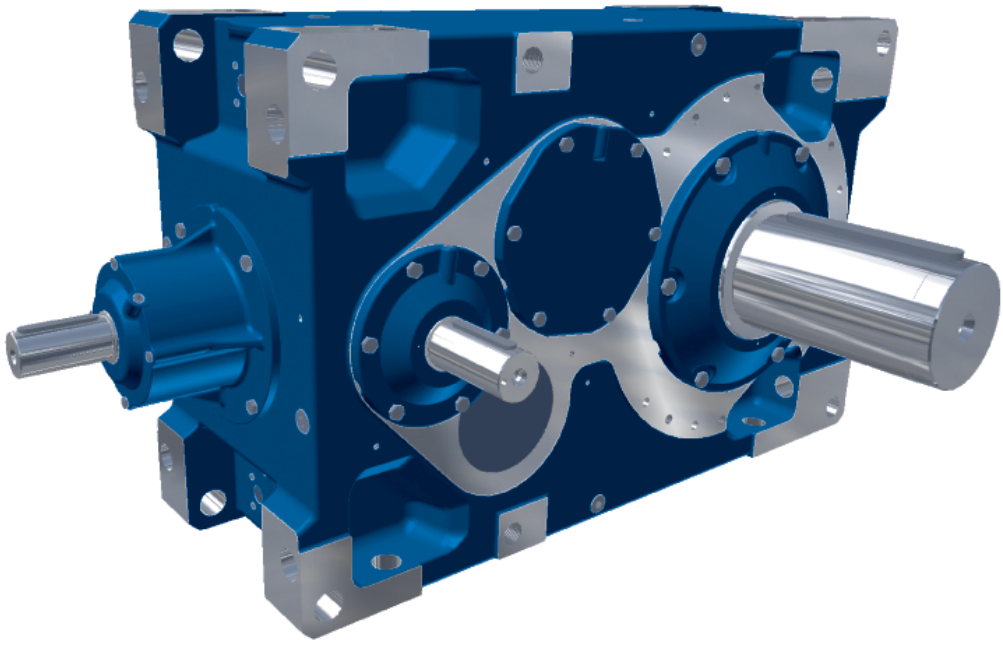


	Dh	Hh	Lh	1.0 kW	1.2 kW	1.4 kW	1.6 kW	2.0 kW
SK 11..07	ø 65	90	57	X	X			
SK 12..07	ø 65	110	49	X	X	X		
SK 13..07	ø 65	100	49		X	X	X	
SK 15..07	ø 65	110	20		X	X	X	X

MAXXDRIVE™ Right-angle Mechanical Selection

Selection

- SK..407 Right-angle Mechanical/Thermal Ratings
- SK..507 Right-angle Mechanical/Thermal Ratings



NORD DRIVESYSTEMS

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UNICASE™

Nom. Ratio i_N	Nominal Input Speed n_{1N} [rpm]	Nominal Output Speed n_{2N} [rpm]	SK 11… Rated Power P_N [hp]	…
5.6	1200	214	1081	
	1800	321	1621	
	Exact Ratio i_{ges}		5.77	
	Max Torque T_{2max} [lb-in·1000]		327.4	

Nom. Ratio i_N	SK 11207 Thermal Rating [hp] --- [P_{TO}] 20° C	40° C	Fan [P_{VF}] 20° C	40° C	CC [P_{VC}] 20° C	40° C
5.6	426	302	+204	+131	+337	+337

NORD DRIVESYSTEMS

RATINGS

Structure of the Mechanical Ratings Tables

Nominal Input Speed
The actual motor speeds depend on the size of the motor, and may differ

Nominal Output Speed
The Nominal Input Speed divided by the Nominal Ratio

Type of Gear Unit

Nom. Ratio i_N	Nominal Input Speed n_{1N} [rpm]	Nominal Output Speed n_{2N} [rpm]	SK 7407 Rated Power P_N [hp]	SK 7407 Inertia J_{red} [lb-ft²]	SK 8407 Rated Power P_N [hp]	SK 8407 Inertia J_{red} [lb-ft²]	SK 9407 Rated Power P_N [hp]	SK 9407 Inertia J_{red} [lb-ft²]	SK 10407 Rated Power P_N [hp]	SK 10407 Inertia J_{red} [lb-ft²]	SK 11407 Rated Power P_N [hp]	SK 11407 Inertia J_{red} [lb-ft²]	SK 12407 Rated Power P_N [hp]	SK 12407 Inertia J_{red} [lb-ft²]	SK 13407 Rated Power P_N [hp]	SK 13407 Inertia J_{red} [lb-ft²]	SK 15407 Rated Power P_N [hp]	SK 15407 Inertia J_{red} [lb-ft²]
112	1200	11	36	0.475	46	0.475	61	1.424	78	1.661	110	0.949	151	1.661	211	2.848	366	6.170
	1800	16	54		70		91		117		165		227		317		549	
	Exact Ratio i_{ges}		113.97		107.23		111.9		107.71		114.28		112.91		113.15		111.48	
	"Max Torque T_{2max} [lb-in • 1000]"		214		261		358		443		662		897		1260		2140	

Nominal Ratio
Sized according to Standard Series

Exact Ratio

Nominal Torque
with Service Factor (f_B) = 1.0

Nominal Output
with Service Factor (f_B) = 1.0
and Nominal Input Speed
n_{1N} = 1200 rpm or
n_{1N} = 1800 rpm

Moment of Inertia
Relative to the Input Shaft

Structure of the Thermal Ratings Tables 1) 2) (see explanation on following page)

Type of Gear Unit

Nom. Ratio i_N	SK 7407 --- [$P_{tO.20}$] 20° C	SK 7407 FAN [$P_{tF.20}$] 20° C	SK 7407 CC [$P_{tC.20}$] 20° C	SK 8407 --- [P_{TO}] 20° C	SK 8407 FAN [P_{tF}] 20° C	SK 8407 CC [P_{tC}] 20° C	SK 9407 --- [P_{TO}] 20° C	SK 9407 FAN [P_{tF}] 20° C	SK 9407 CC [P_{tC}] 20° C	SK 10407 --- [P_{TO}] 20° C	SK 10407 FAN [P_{tF}] 20° C	SK 10407 CC [P_{tC}] 20° C	SK 11407 --- [P_{TO}] 20° C	SK 11407 FAN [P_{tF}] 20° C	SK 11407 CC [P_{tC}] 20° C	SK 12407 --- [P_{TO}] 20° C	SK 12407 FAN [P_{tF}] 20° C	SK 12407 CC [P_{tC}] 20° C	SK 13407 --- [P_{TO}] 20° C	SK 13407 FAN [P_{tF}] 20° C	SK 13407 CC [P_{tC}] 20° C	SK 15407 --- [P_{TO}] 20° C	SK 15407 FAN [P_{tF}] 20° C	SK 15407 CC [P_{tC}] 20° C
45	71	+181	+45	121	+203	+45	157	+264	+87	178	+299	+87	206	+346	+225	264	+444	+313	328	+551	+401	466	+783	+401

(Column group heading for each gear unit: Thermal Rating [hp])

Nominal Ratio
Sized according to Standard Series

Cooling Type
--- : No Additional Cooling
Fan : Built in Fan Cooling
CC : Integrated Water Cooling

Thermal Power Limit 1) 2)
Without any additional thermal cooling at Ambient Temp.

Additional Thermal Power Limit 1) 2)
With Built in Fan at Ambient Temperature with nominal speed = 1800 rpm

Additional Thermal Power Limit
With Integrated Water Cooling at Ambient Temperature

Structure of the Ratings Tables

Structure of the Power & Gear Ratio Ratings Tables

Nominal Motor (Input) Power
Output Speed at Nominal Motor Speed
Output Torque For the Stated Service Factor
Service Factor
Total Gear Ratio
Type of Maxxdrive Unit
Weight of unit without Motor or IEC Flange
Dimension Drawing Page Number

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in*1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS ---	Model Type	Weight [lb]	Dim. Page
40	11	34.7	1.8	114.28	79	38	SK 11407 - 364T	1460	180
	11	34.7	1.9	104.39	79	38			
	13	29.4	2.1	89.30	79	38			

Optional Cooling System Related To Standard Ambient Conditions[1)]
--- : No Additional Cooling System
FAN : Built In Fan (page 56)
CC : Integrated Water Cooling (page 57)
A - H : Size of External Cooling Units (page 59)
FAN* : High powered fan (page 56)
It has a greater thermal power limit than the integrated water cooling
/ : Forward slash stands for "or"

Thermal Power Limit for Standard Ambient Conditions[1)]

GEARMOTOR

[1)] Standard ambient conditions

Ambient temperature:	68°F (20°C)
Air circulation at installation location	large hall with good air circulation (v_L = 4.10 ft/s or 1.25 m/s)
Installation:	Foundation steel sub-construction
Installation altitude:	≤ 3280ft (1000m) above sea level
Installation position	Horizontal installation (M1 for 2-stage or M3 for 3 stage)
Type of lubrication:	Oil-splash lubrication
Cooling water inlet temperature	68°F (20° C)

[2)] Intermediate figures from 0° C to 50° C can be interpolated.

SK..407 Right-angle Mechanical Ratings

NORD DRIVESYSTEMS

Nom. Ratio	Nominal Input Speed	Nominal Output Speed	SK 7407		SK 8407		SK 9407		SK 10407		SK 11407		SK 12407		SK 13407		SK 15407	
			Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia
i_N	n_{1N} [rpm]	n_{2N} [rpm]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]
12.5	1200	96	-	-	-	-	-	-	-	-	669	10.441	987	18.747	1292	33.223	1991	71.903
	1800	144	-		-		-		-		1004		1480		1938		2987	
	Exact Ratio i_{ges}		-		-		-		-		12.74		12.81		13.04		12.61	
	"Max Torque T_{2max} [lb-in • 1000]"		-		-		-		-		448		664		885		1320	
14	1200	86	-	-	-	-	-	-	-	-	669	10.204	957	18.272	1232	32.511	1861	70.005
	1800	129	-		-		-		-		1004		1435		1849		2792	
	Exact Ratio i_{ges}		-		-		-		-		13.95		13.97		14.22		13.76	
	"Max Torque T_{2max} [lb-in • 1000]"		-		-		-		-		490		702		920		1350	
16	1200	75	-	-	-	-	-	-	-	-	597	8.543	867	15.187	1222	27.290	1664	58.614
	1800	113	-		-		-		-		896		1300		1832		2496	
	Exact Ratio i_{ges}		-		-		-		-		16.34		16.33		16.00		16.10	
	"Max Torque T_{2max} [lb-in • 1000]"		-		-		-		-		512		743		1030		1410	
18	1200	67	186	2.610	-	-	312	5.695	-	-	542	8.306	870	14.950	1178	26.578	1651	57.190
	1800	100	278		-		468		-		812		1306		1767		2476	
	Exact Ratio i_{ges}		17.52		-		17.72		-		17.89		17.81		17.45		17.56	
	"Max Torque T_{2max} [lb-in • 1000]"		171		-		290		-		509		814		1080		1520	
20	1200	60	185	2.610	206	2.848	302	5.458	319	5.933	467	6.645	732	11.628	1028	20.645	1569	44.613
	1800	90	278		309		453		479		701		1098		1543		2353	
	Exact Ratio i_{ges}		19.26		19.96		19.48		19.96		20.35		20.25		20.04		19.98	
	"Max Torque T_{2max} [lb-in • 1000]"		188		216		309		335		499		779		1080		1650	
22.4	1200	54	156	2.373	206	2.848	264	4.983	309	5.695	466	6.407	726	11.391	1002	20.408	1469	43.901
	1800	80	235		309		396		464		699		1089		1503		2204	
	Exact Ratio i_{ges}		22.09		21.20		22.35		21.86		22.27		22.09		21.86		21.79	
	"Max Torque T_{2max} [lb-in • 1000]"		181		229		310		355		545		843		1150		1680	
25	1200	48	157	2.373	173	2.610	256	4.983	270	5.221	415	6.170	594	10.679	823	19.222	1316	41.291
	1800	72	235		260		384		406		623		891		1235		1973	
	Exact Ratio i_{ges}		24.30		25.18		24.56		25.18		26.04		25.82		25.87		25.49	
	"Max Torque T_{2max} [lb-in • 1000]"		200		229		330		358		568		805		1120		1760	

SK..407 Right-angle Thermal Ratings

Nom. Ratio	SK 7407			SK 8407			SK 9407			SK 10407			SK 11407			SK 12407			SK 13407			SK 15407		
	Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]		
i_N	--- $[P_{tO.20}]$ 20° C	FAN $[P_{tF.20}]$ 20° C	CC $[P_{tC.20}]$ 20° C	--- $[P_{TO}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{TO}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{TO}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{TO}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{TO}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{TO}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{TO}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C
12.5	-	-	-	-	-	-	-	-	-	-	-	-	199	+334	+200	264	+444	+278	328	+551	+357	484	+813	+357
14	-	-	-	-	-	-	-	-	-	-	-	-	193	+324	+200	247	+415	+278	317	+533	+357	450	+756	+357
16	-	-	-	-	-	-	-	-	-	-	-	-	193	+324	+200	247	+415	+278	317	+533	+357	450	+756	+357
18	108	+244	+40	-	-	-	157	+354	+77	-	-	-	187	+314	+200	239	+402	+278	307	+516	+357	435	+731	+357
20	101	+228	+40	121	+273	+40	147	+332	+77	178	+402	+77	181	+304	+200	247	+415	+278	298	+501	+357	421	+707	+357
22.4	101	+228	+40	114	+257	+40	147	+332	+77	167	+377	+77	176	+296	+200	232	+390	+278	289	+486	+357	408	+685	+357
25	98	+221	+40	114	+257	+40	143	+323	+77	167	+377	+77	176	+296	+200	225	+378	+278	289	+486	+357	408	+685	+357

THERMAL

20°C = 68°F

Nominal speed for all FAN ratings = 1800rpm

SK..407 Right-angle Mechanical Ratings

NORD DRIVESYSTEMS

Nom. Ratio	Nominal Input Speed	Nominal Output Speed	SK 7407		SK 8407		SK 9407		SK 10407		SK 11407		SK 12407		SK 13407		SK 15407	
			Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia
i_N	n_{1N} [rpm]	n_{2N} [rpm]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]
28	1200	43	114	1.661	174	2.610	192	3.322	262	4.983	430	5.933	588	10.679	820	18.747	1230	40.579
	1800	64	171		261		287		393		645		881		1231		1845	
	Exact Ratio i_{ges}		28.53		26.76		28.85		27.56		28.50		28.16		28.22		27.81	
	"Max Torque T_{2max} [lb-in • 1000]"		171		244		290		379		643		869		1220		1800	
31.5	1200	38	114	1.661	127	1.898	185	3.322	196	3.560	337	3.797	463	6.882	652	12.102	916	25.866
	1800	57	171		190		278		294		506		694		979		1375	
	Exact Ratio i_{ges}		31.36		32.50		31.72		32.50		31.46		31.31		30.99		30.89	
	"Max Torque T_{2max} [lb-in • 1000]"		188		216		309		335		558		761		1060		1490	
35.5	1200	34	96	1.661	126	1.898	162	3.085	190	3.560	311	3.797	459	6.645	648	11.628	912	25.154
	1800	51	144		190		243		285		467		688		972		1367	
	Exact Ratio i_{ges}		35.97		34.53		36.40		35.59		34.45		34.16		33.80		33.70	
	"Max Torque T_{2max} [lb-in • 1000]"		181		229		310		355		563		823		1150		1610	
40	1200	30	96	1.661	106	1.661	157	2.848	166	3.085	276	3.085	384	5.695	531	9.967	910	21.357
	1800	45	144		160		236		249		414		576		796		1366	
	Exact Ratio i_{ges}		39.57		41.01		40.00		41.01		40.26		39.92		40.01		39.42	
	"Max Torque T_{2max} [lb-in • 1000]"		200		229		330		358		584		805		1120		1890	
45	1200	27	82	1.424	107	1.661	137	2.610	161	3.085	278	3.085	380	5.458	525	9.729	905	20.645
	1800	40	122		160		205		241		416		570		788		1358	
	Exact Ratio i_{ges}		45.45		43.57		45.95		44.89		44.08		43.55		43.64		43.00	
	"Max Torque T_{2max} [lb-in • 1000]"		195		244		330		379		643		869		1200		2040	
50	1200	24	82	1.424	89	1.424	133	2.610	140	2.848	187	2.848	291	4.983	408	8.780	569	18.984
	1800	36	122		134		199		210		281		436		612		854	
	Exact Ratio i_{ges}		49.96		51.78		50.51		51.78		51.25		51.01		50.48		50.33	
	"Max Torque T_{2max} [lb-in • 1000]"		214		243		352		381		504		779		1080		1500	
56	1200	21	59	0.712	90	1.424	100	1.424	136	2.848	186	2.610	288	4.746	407	8.543	571	18.510
	1800	32	89		135		150		204		279		432		610		856	
	Exact Ratio i_{ges}		58.09		55.02		58.79		56.70		56.11		55.64		55.07		54.90	
	"Max Torque T_{2max} [lb-in • 1000]"		181		259		310		404		549		843		1180		1650	

NORD DRIVESYSTEMS

SK..407 Right-angle Thermal Ratings

Nom. Ratio	SK 7407			SK 8407			SK 9407			SK 10407			SK 11407			SK 12407			SK 13407			SK 15407		
	Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]		
i_N	--- [$P_{t0.20}$] 20° C	FAN [$P_{tF.20}$] 20° C	CC [$P_{tC.20}$] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C	--- [P_{T0}] 20° C	FAN [P_{tF}] 20° C	CC [P_{tC}] 20° C
28	108	+244	+40	110	+248	+40	157	+354	+77	162	+365	+77	166	+279	+200	212	+356	+278	272	+457	+357	384	+645	+357
31.5	101	+228	+40	121	+273	+40	147	+332	+77	178	+402	+77	181	+304	+200	247	+415	+278	298	+501	+357	421	+707	+357
35.5	101	+228	+40	114	+257	+40	147	+332	+77	167	+377	+77	176	+296	+200	232	+390	+278	289	+486	+357	408	+685	+357
40	98	+221	+40	114	+257	+40	143	+323	+77	167	+377	+77	176	+296	+200	225	+378	+278	289	+486	+357	408	+685	+357
45	98	+221	+40	110	+248	+40	143	+323	+77	162	+365	+77	166	+279	+200	212	+356	+278	272	+457	+357	384	+645	+357
50	93	+210	+40	110	+248	+40	135	+305	+77	162	+365	+77	181	+304	+200	247	+415	+278	298	+501	+357	421	+707	+357
56	101	+228	+40	104	+235	+40	147	+332	+77	153	+345	+77	176	+296	+200	232	+390	+278	289	+486	+357	408	+685	+357

20°C = 68°F

Nominal speed for all FAN ratings = 1800rpm

SK..407 Right-angle Mechanical Ratings

NORD DRIVESYSTEMS

MECHANICAL

Nom. Ratio	Nominal Input Speed	Nominal Output Speed	SK 7407		SK 8407		SK 9407		SK 10407		SK 11407		SK 12407		SK 13407		SK 15407	
			Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia
i_N	n_{1N} [rpm]	n_{2N} [rpm]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]
63	1200	19	60	0.712	66	0.712	97	1.424	103	1.661	170	2.136	236	4.034	326	7.119	567	15.187
	1800	29	89		99		146		154		254		354		489		850	
	Exact Ratio i_{ges}		63.90		66.23		64.60		66.23		65.59		65.04		65.17		64.21	
	"Max Torque T_{2max} [lb-in • 1000]"		200		229		330		358		584		805		1120		1910	
71	1200	17	51	0.712	66	0.712	85	1.424	99	1.424	171	2.136	233	3.797	325	6.882	560	14.713
	1800	25	76		99		127		149		256		350		488		841	
	Exact Ratio i_{ges}		73.39		70.36		74.21		72.49		71.80		70.94		71.09		70.05	
	"Max Torque T_{2max} [lb-in • 1000]"		195		244		330		379		643		869		1220		2060	
80	1200	25	51	0.712	55	0.712	82	1.187	87	1.424	-	-	-	-	-	-	-	-
	1800	31	76		83		123		130		-		-		-		-	
	Exact Ratio i_{ges}		80.67		83.62		81.57		83.62		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		214		243		352		381		-		-		-		-	
90	1200	33	42	0.475	56	0.712	71	1.187	84	1.424	-	-	-	-	-	-	-	-
	1800	39	62		83		106		126		-		-		-		-	
	Exact Ratio i_{ges}		94.30		88.85		95.36		91.55		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		206		259		353		404		-		-		-		-	
100	1200	40	41	0.475	46	0.475	67	1.187	70	1.187	-	-	-	-	-	-	-	-
	1800	45	62		69		101		105		-		-		-		-	
	Exact Ratio i_{ges}		103.66		107.43		104.85		107.43		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		224		258		371		397		-		-		-		-	
112	1200	45	-	-	45	0.475	-	-	69	1.187	-	-	-	-	-	-	-	-
	1800	49	-		68		-		104		-		-		-		-	
	Exact Ratio i_{ges}		-		114.14		-		117.65		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		-		270		-		429		-		-		-		-	

SK..407 Right-angle Thermal Ratings

Nom. Ratio	SK 7407			SK 8407			SK 9407			SK 10407			SK 11407			SK 12407			SK 13407			SK 15407		
	Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]		
i_N	---	FAN	CC	---	FAN	CC	---	FAN	CC	---	FAN	CC	---	FAN	CC	---	FAN	CC	---	FAN	CC	---	FAN	CC
	$[P_{tO.20}]$	$[P_{tF.20}]$	$[P_{tC.20}]$	$[P_{T0}]$	$[P_{tF}]$	$[P_{tC}]$	$[P_{T0}]$	$[P_{tF}]$	$[P_{tC}]$	$[P_{T0}]$	$[P_{tF}]$	$[P_{tC}]$	$[P_{T0}]$	$[P_{tF}]$	$[P_{tC}]$	$[P_{T0}]$	$[P_{tF}]$	$[P_{tC}]$	$[P_{T0}]$	$[P_{tF}]$	$[P_{tC}]$	$[P_{T0}]$	$[P_{tF}]$	$[P_{tC}]$
	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C
63	98	+221	+40	114	+257	+40	143	+323	+77	167	+377	+77	176	+296	+200	225	+378	+278	289	+486	+357	408	+685	+357
71	98	+221	+40	110	+248	+40	143	+323	+77	162	+365	+77	166	+279	+200	212	+356	+278	272	+457	+357	384	+645	+357
80	93	+210	+40	110	+248	+40	135	+305	+77	162	+365	+77	-	-	-	-	-	-	-	-	-	-	-	-
90	90	+203	+40	104	+235	+40	131	+296	+77	153	+345	+77	-	-	-	-	-	-	-	-	-	-	-	-
100	88	+199	+40	101	+228	+40	127	+287	+77	148	+334	+77	-	-	-	-	-	-	-	-	-	-	-	-
112	-	-	-	96	+217	+40	-	-	-	141	+318	+77	-	-	-	-	-	-	-	-	-	-	-	-

20°C = 68°F

Nominal speed for all FAN ratings = 1800rpm

SK..507 Right-angle Mechanical Ratings

NORD DRIVESYSTEMS

Nom. Ratio	Nominal Input Speed	Nominal Output Speed	SK 7507		SK 8507		SK 9507		SK 10507		SK 11507		SK 12507		SK 13507		SK 15507	
			Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia
i_N	n_{1N} [rpm]	n_{2N} [rpm]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]
80	1200	15	-	-	-	-	-	-	-	-	139	2.136	211	4.034	268	6.882	451	14.950
	1800	23	-		-		-		-		209		316		402		676	
	Exact Ratio i_{ges}		-		-		-		-		79.13		78.46		77.66		77.42	
	"Max Torque T_{2max} [lb-in • 1000]"		-		-		-		-		579		869		1090		1830	
90	1200	20	-	-	-	-	-	-	-	-	125	1.661	171	2.848	239	5.221	415	11.153
	1800	13	-		-		-		-		188		257		359		622	
	Exact Ratio i_{ges}		-		-		-		-		92.50		91.72		91.91		90.56	
	"Max Torque T_{2max} [lb-in • 1000]"		-		-		-		-		608		825		1150		1970	
100	1200	12	-	-	-	-	-	-	-	-	125	1.661	171	2.848	238	4.983	413	10.916
	1800	18	-		-		-		-		187		256		357		620	
	Exact Ratio i_{ges}		-		-		-		-		101.26		100.05		100.26		98.78	
	"Max Torque T_{2max} [lb-in • 1000]"		-		-		-		-		663		897		1250		2140	
112	1200	11	30	0.475	-	-	58	0.949	-	-	99	1.187	135	2.373	188	4.034	324	8.543
	1800	16	45		-		87		-		148		203		282		486	
	Exact Ratio i_{ges}		114.10		-		116.35		-		113.11		112.83		113.14		111.66	
	"Max Torque T_{2max} [lb-in • 1000]"		178		-		353		-		587		800		1120		1900	
125	1200	10	30	0.475	33	0.475	55	0.949	63	0.949	99	1.187	135	2.136	187	4.034	323	8.543
	1800	14	45		49		82		94		148		202		281		485	
	Exact Ratio i_{ges}		125.47		130.05		127.88		131.07		123.83		123.08		123.42		121.80	
	"Max Torque T_{2max} [lb-in • 1000]"		196		224		368		434		641		870		1210		2070	
140	1200	9	28	0.237	33	0.475	44	0.712	60	0.949	80	0.949	109	1.898	151	3.322	264	7.119
	1800	13	41		49		67		90		120		164		226		396	
	Exact Ratio i_{ges}		148.13		138.15		151.28		143.51		144.75		143.87		146.08		142.47	
	"Max Torque T_{2max} [lb-in • 1000]"		214		238		353		454		610		826		1160		1980	
160	1200	8	26	0.237	31	0.237	42	0.949	48	0.949	79	0.949	109	1.898	151	3.322	264	6.882
	1800	11	39		46		63		73		119		164		226		396	
	Exact Ratio i_{ges}		162.86		168.79		166.30		170.43		158.47		156.94		159.35		155.41	
	"Max Torque T_{2max} [lb-in • 1000]"		224		274		366		434		658		901		1260		2160	
180	1200	7	21	0.237	29	0.237	37	0.712	46	0.949	63	0.949	86	1.661	120	2.848	205	5.933
	1800	10	32		43		55		69		95		130		180		308	
	Exact Ratio i_{ges}		182.45		179.35		182.86		186.63		178.17		177.31		177.88		177.34	
	"Max Torque T_{2max} [lb-in • 1000]"		205		270		353		451		591		805		1120		1910	

NORD DRIVESYSTEMS

SK..507 Right-angle Thermal Ratings

Nom. Ratio	SK 7507			SK 8507			SK 9507			SK 10507			SK 11507			SK 12507			SK 13507			SK 15507		
	Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]		
i_N	--- $[P_{tO.20}]$ 20° C	FAN $[P_{tF.20}]$ 20° C	CC $[P_{tC.20}]$ 20° C	--- $[P_{TO}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{TO}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{TO}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{TO}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{TO}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{TO}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C	--- $[P_{TO}]$ 20° C	FAN $[P_{tF}]$ 20° C	CC $[P_{tC}]$ 20° C
80	-	-	-	-	-	-	-	-	-	-	-	-	150	+252	+138	191	+321	+193	244	+410	+247	363	+610	+247
90	-	-	-	-	-	-	-	-	-	-	-	-	146	+245	+138	187	+314	+193	238	+400	+247	344	+578	+247
100	-	-	-	-	-	-	-	-	-	-	-	-	139	+234	+138	178	+299	+193	227	+381	+247	327	+549	+247
112	75	+169	+27	-	-	-	110	+248	+53	-	-	-	142	+239	+138	191	+321	+193	232	+390	+247	344	+578	+247
125	72	+162	+27	85	+192	+27	105	+237	+53	124	+280	+53	136	+228	+138	182	+306	+193	227	+381	+247	327	+549	+247
140	72	+162	+27	81	+183	+27	105	+237	+53	119	+268	+53	136	+228	+138	182	+306	+193	227	+381	+247	319	+536	+247
160	71	+160	+27	81	+183	+27	102	+230	+53	119	+268	+53	136	+228	+138	174	+292	+193	216	+363	+247	304	+511	+247
180	74	+167	+27	79	+178	+27	107	+241	+53	116	+262	+53	130	+218	+138	178	+299	+193	216	+363	+247	311	+522	+247

20°C = 68°F

Nominal speed for all FAN ratings = 1800rpm

SK..507 Right-angle Mechanical Ratings

NORD DRIVESYSTEMS

Nom. Ratio	Nominal Input Speed	Nominal Output Speed	SK 7507		SK 8507		SK 9507		SK 10507		SK 11507		SK 12507		SK 13507		SK 15507	
			Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia	Rated Power	Inertia
i_N	n_{1N} [rpm]	n_{2N} [rpm]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]	P_N [hp]	J_{red} [lb-ft²]
200	1200	6	21	0.237	22	0.237	35	0.712	37	0.712	63	0.949	86	1.661	120	2.848	205	5.933
	1800	9	32		33		52		56		95		130		180		308	
	Exact Ratio i_{ges}		200.62		207.90		200.99		205.98		195.05		193.41		194.04		193.45	
	"Max Torque T_{2max} [lb-in • 1000]"		223		242		365		404		647		878		1220		2090	
224	1200	5	18	0.237	22	0.237	30	0.712	37	0.712	51	0.712	70	1.424	97	2.373	168	5.221
	1800	8	27		33		44		56		77		105		145		252	
	Exact Ratio i_{ges}		226.60		220.87		227.29		225.57		228.01		226.08		229.66		226.28	
	"Max Torque T_{2max} [lb-in • 1000]"		214		256		353		442		615		834		1170		1990	
250	1200	5	17	0.237	20	0.237	28	0.949	32	0.712	51	0.712	70	1.424	97	2.373	168	5.221
	1800	7	26		30		41		48		77		105		145		252	
	Exact Ratio i_{ges}		249.18		258.22		249.83		256.05		249.61		246.62		250.52		246.83	
	"Max Torque T_{2max} [lb-in • 1000]"		224		272		363		434		674		910		1270		2170	
280	1200	4	14	0.237	19	0.237	23	0.712	30	0.949	37	0.712	53	1.187	72	2.136	127	4.509
	1800	6	21		28		34		46		56		80		108		191	
	Exact Ratio i_{ges}		294.18		274.38		295.57		280.39		289.22		287.82		284.85		283.98	
	"Max Torque T_{2max} [lb-in • 1000]"		214		270		353		447		566		807		1080		1900	
315	1200	4	13	0.237	15	0.237	21	0.712	25	0.712	35	0.712	53	1.187	72	2.136	127	4.509
	1800	6	20		23		32		37		53		80		108		191	
	Exact Ratio i_{ges}		323.47		335.21		324.86		332.92		316.62		313.96		310.73		309.77	
	"Max Torque T_{2max} [lb-in • 1000]"		224		271		361		433		590		881		1180		2070	
355	1200	3	11	0.237	14	0.237	19	0.712	23	0.712	32	0.712	44	1.187	61	1.898	106	4.271
	1800	5	17		22		28		35		48		65		91		159	
	Exact Ratio i_{ges}		362.29		356.15		357.22		364.58		370.12		366.99		367.77		362.35	
	"Max Torque T_{2max} [lb-in • 1000]"		210		270		353		444		621		842		1180		2010	
400	1200	3	11	0.237	11	0.237	17	0.712	21	0.712	32	0.712	44	1.187	61	1.898	106	4.271
	1800	5	16		17		26		31		48		66		91		159	
	Exact Ratio i_{ges}		398.37		412.85		392.65		402.38		405.18		400.33		401.17		395.26	
	"Max Torque T_{2max} [lb-in • 1000]"		224		246		359		434		680		919		1280		2200	
450	1200	3	-	-	11	0.237	-	-	19	0.712	-	-	-	-	-	-	-	-
	1800	4	-		17		-		29		-		-		-		-	
	Exact Ratio i_{ges}		-		438.67		-		440.63		-		-		-		-	
	"Max Torque T_{2max} [lb-in • 1000]"		-		261		-		443		-		-		-		-	

SK..507 Right-angle Thermal Ratings

Nom. Ratio i_N	SK 7507			SK 8507			SK 9507			SK 10507			SK 11507			SK 12507			SK 13507			SK 15507		
	Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]			Thermal Rating [hp]		
	---	FAN	CC	---	FAN	CC	---	FAN	CC	---	FAN	CC	---	FAN	CC	---	FAN	CC	---	FAN	CC	---	FAN	CC
	$[P_{tO.20}]$	$[P_{tF.20}]$	$[P_{tC.20}]$	$[P_{TO}]$	$[P_{tF}]$	$[P_{tC}]$	$[P_{TO}]$	$[P_{tF}]$	$[P_{tC}]$	$[P_{TO}]$	$[P_{tF}]$	$[P_{tC}]$	$[P_{TO}]$	$[P_{tF}]$	$[P_{tC}]$	$[P_{TO}]$	$[P_{tF}]$	$[P_{tC}]$	$[P_{TO}]$	$[P_{tF}]$	$[P_{tC}]$	$[P_{TO}]$	$[P_{tF}]$	$[P_{tC}]$
	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C	20° C
200	72	+162	+27	81	+183	+27	105	+237	+53	119	+268	+53	125	+210	+138	166	+279	+193	212	+356	+247	297	+499	+247
224	69	+156	+27	77	+174	+27	100	+226	+53	114	+257	+53	127	+213	+138	166	+279	+193	207	+348	+247	290	+487	+247
250	68	+153	+27	77	+174	+27	98	+221	+53	114	+257	+53	125	+210	+138	159	+267	+193	198	+333	+247	278	+467	+247
280	69	+156	+27	76	+171	+27	100	+226	+53	111	+250	+53	122	+205	+138	156	+262	+193	198	+333	+247	272	+457	+247
315	66	+149	+27	76	+171	+27	96	+217	+53	111	+250	+53	117	+197	+138	150	+252	+193	198	+333	+247	267	+449	+247
355	65	+147	+27	73	+165	+27	94	+212	+53	107	+241	+53	115	+193	+138	150	+252	+193	187	+314	+247	272	+457	+247
400	66	+149	+27	73	+165	+27	96	+217	+53	107	+241	+53	113	+190	+138	144	+242	+193	180	+302	+247	256	+430	+247
450	-	-	-	71	+160	+27	-	-	-	105	+237	+53	-	-	-	-	-	-	-	-	-	-	-	-

THERMAL

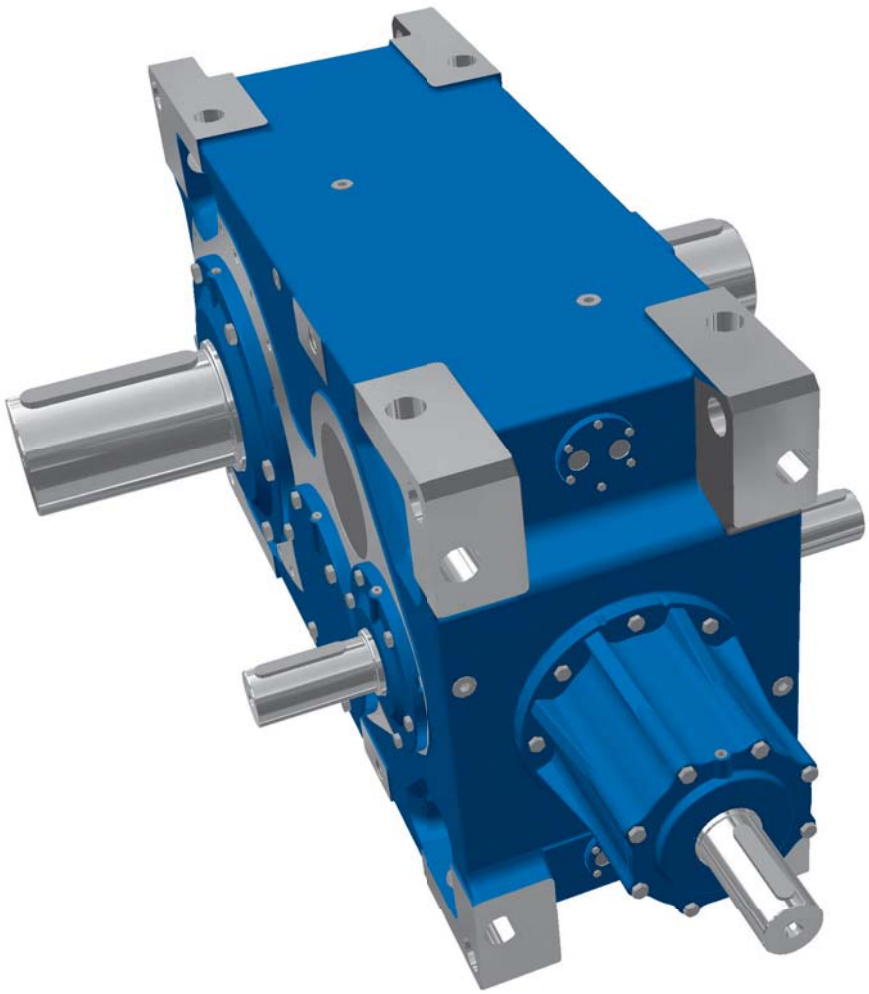
20°C = 68°F

Nominal speed for all FAN ratings = 1800rpm

MAXXDRIVE™ Right-angle Gearmotor Selection

Selection

- 1200 rpm Right-Angle Gearmotor Ratings 5 hp - 900 hp
- 1800 rpm Right-Angle Gearmotor Ratings 7.5 hp - 900 hp



NORD DRIVESYSTEMS

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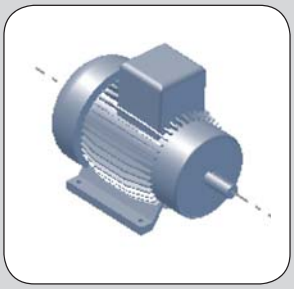
UNICASE™

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque M_2 [lb-in*1000]
40	11	34.7
	11	34.7
	13	29.4



5 hp - 10 hp
Right-angle Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
5	4.1	76.9	2.8	294.18	69	---	SK 7507 - 215T	1301	258
	3.7	85.2	2.6	323.47	66	---			
	3.3	95.5	2.2	362.29	65	---			
	3.0	105	2.1	398.37	66	---			
	3.4	92.7	2.9	356.15	73	---	SK 8507 - 215T	1431	264
	2.9	109	2.3	412.85	73	---			
	2.7	117	2.2	438.67	71	---			
7.5	6.6	71.6	2.9	182.45	74	---	SK 7507 - 254T	1301	258
	6.0	78.8	2.8	200.62	72	---			
	5.3	89.2	2.4	226.60	69	---			
	4.8	98.5	2.3	249.18	68	---			
	4.1	115	1.9	294.18	69	---			
	3.7	128	1.8	323.47	66	---			
	3.3	143	1.5	362.29	65	---			
	3.0	158	1.4	398.37	66	---			
	5.8	81.5	3.0	207.90	81	---	SK 8507 - 254T	1431	264
	5.4	87.5	2.9	220.87	77	---			
	4.6	103	2.6	258.22	77	---			
	4.4	107	2.5	274.38	76	---			
	3.6	131	2.1	335.21	76	---			
	3.4	139	1.9	356.15	73	---			
	2.9	163	1.5	412.85	73	---			
	2.7	175	1.5	438.67	71	---			
	3.7	128	2.8	324.86	96	---	SK 9507 - 254T	2165	270
	3.4	139	2.5	357.22	94	---			
	3.1	152	2.4	392.65	96	---			
	3.0	158	2.8	402.38	107	---	SK 10507 - 254T	2383	276
	2.7	175	2.5	440.63	105	---			
10	11.0	57.3	3.1	114.10	75	---	SK 7507 - 256T	1301	258
	9.6	65.7	3.0	125.47	72	---			
	8.1	77.8	2.8	148.13	72	---			
	7.4	85.2	2.6	162.86	71	---			
	6.6	95.5	2.2	182.45	74	---			
	6.0	105	2.1	200.62	72	---			
	5.3	119	1.8	226.60	69	---			
	4.8	131	1.7	249.18	68	---			
	4.1	154	1.4	294.18	69	---			
	3.7	170	1.3	323.47	66	---			

10 hp - 15 hp
Right-angle Drives
n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
10	6.7	94.1	2.9	179.35	79	---	**SK 8507 - 256T**	1431	264
	5.8	109	2.2	207.90	81	---			
	5.4	117	2.2	220.87	77	---			
	4.6	137	2.0	258.22	77	---			
	4.4	143	1.9	274.38	76	---			
	3.6	175	1.5	335.21	76	---			
	3.4	185	1.5	356.15	73	---			
	5.3	119	3.0	227.29	100	---	**SK 9507 - 256T**	2165	270
	4.8	131	2.8	249.83	98	---			
	4.1	154	2.3	295.57	100	---			
	3.7	170	2.1	324.86	96	---			
	3.4	185	1.9	357.22	94	---			
	3.1	203	1.8	392.65	96	---			
	3.6	175	2.5	332.92	111	---	**SK 10507 - 256T**	2383	276
	3.3	191	2.3	364.58	107	---			
	3.0	210	2.1	402.38	107	---			
	2.7	233	1.9	440.63	105	---			
15	13.0	72.7	2.8	94.30	90	---	**SK 7407 - 284T**	1301	258
	12.0	78.8	2.8	103.66	88	---			
	11.0	86	2.1	114.10	75	---	**SK 7507 - 284T**	1301	258
	9.6	98.5	2.0	125.47	72	---			
	8.1	117	1.8	148.13	72	---			
	7.4	128	1.8	162.86	71	---			
	6.6	143	1.4	182.45	74	---			
	6.0	158	1.4	200.62	72	---			
	9.2	103	2.2	130.05	85	---	**SK 8507 - 284T**	1431	264
	8.7	109	2.2	138.15	81	---			
	7.1	133	2.1	168.79	81	---			
	6.7	141	1.9	179.35	79	---			
	5.8	163	1.5	207.90	81	---			
	5.4	175	1.5	220.87	77	---			
	4.6	206	1.3	258.22	77	---			
	7.9	120	3.0	151.28	105	---	**SK 9507 - 284T**	2165	270
	7.2	131	2.8	166.30	102	---			
	6.6	143	2.5	182.86	107	---			
	6.0	158	2.3	200.99	105	---			
	5.3	178	2.0	227.29	100	---			
	4.8	197	1.8	249.83	98	---			
	4.1	231	1.5	295.57	100	---			
	3.7	256	1.4	324.86	96	---			

15 hp - 20 hp
Right-angle Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
15	5.8	163	2.5	205.98	119	---	**SK 10507 - 284T**	2383	276
	5.3	178	2.5	225.57	114	---			
	4.7	201	2.2	256.05	114	---			
	4.3	220	2.0	280.39	111	---			
	3.6	263	1.6	332.92	111	---			
	3.3	287	1.6	364.58	107	---			
	3.0	315	1.4	402.38	107	---			
	4.1	231	2.5	289.22	122	---	**SK 11507 - 284T**	3384	282
	3.8	249	2.4	316.62	117	---			
	3.2	295	2.1	370.12	115	---			
	3.0	315	2.2	405.18	113	---			
	3.3	287	2.9	366.99	150	---	**SK 12507 - 284T**	4839	288
	3.0	315	2.9	400.33	144	---			
20	21.0	60	3.0	58.09	101	---	**SK 7407 - 286T**	1301	258
	19.0	66.3	3.0	63.90	98	---			
	16.0	78.8	2.5	73.39	98	---			
	15.0	84	2.5	80.67	93	---			
	13.0	97	2.1	94.30	90	---			
	12.0	105	2.1	103.66	88	---			
	11.0	115	1.6	114.10	75	---	**SK 7507 - 286T**	1301	258
	9.6	131	1.5	125.47	72	---			
	8.1	156	1.4	148.13	72	---			
	7.4	170	1.3	162.86	71	---			
	14.0	90	2.9	88.85	104	---	**SK 8407 - 286T**	1431	264
	14.0	90	2.7	83.62	110	---			
	11.0	115	2.4	114.14	96	---			
	11.0	115	2.3	107.43	101	---			
	9.2	137	1.6	130.05	85	---	**SK 8507 - 286T**	1431	264
	8.7	145	1.6	138.15	81	---			
	7.1	178	1.5	168.79	81	---			
	6.7	188	1.4	179.35	79	---			
	10.0	126	2.8	116.35	110	---	**SK 9507 - 286T**	2165	270
	9.4	134	2.7	127.88	105	---			
	7.9	160	2.2	151.28	105	---			
	7.2	175	2.1	166.30	102	---			
	6.6	191	1.8	182.86	107	---			
	6.0	210	1.7	200.99	105	---			
	5.3	238	1.5	227.29	100	---			
	4.8	263	1.4	249.83	98	---			

20 hp - 25 hp
Right-angle Drives
n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
20	7.0	180	2.4	170.43	119	---	**SK 10507 - 286T**	2383	276
	6.4	197	2.3	186.63	116	---			
	5.8	217	1.9	205.98	119	---			
	5.3	238	1.9	225.57	114	---			
	4.7	268	1.6	256.05	114	---			
	4.3	293	1.5	280.39	111	---			
	5.3	238	2.6	228.01	127	---	**SK 11507 - 286T**	3384	282
	4.8	263	2.6	249.61	125	---			
	4.1	307	1.8	289.22	122	---			
	3.8	332	1.8	316.62	117	---			
	3.2	394	1.6	370.12	115	---			
	3.0	420	1.6	405.18	113	---			
	4.2	300	2.7	287.82	156	---	**SK 12507 - 286T**	4839	288
	3.8	332	2.7	313.96	150	---			
	3.3	382	2.2	366.99	150	---			
	3.0	420	2.2	400.33	144	---			
25	21.0	75	2.4	58.09	101	---	**SK 7407 - 324T**	1301	258
	19.0	82.9	2.4	63.90	98	---			
	16.0	98.5	2.0	73.39	98	---			
	15.0	105	2.0	80.67	93	---			
	13.0	121	1.7	94.30	90	---			
	12.0	131	1.7	103.66	88	---			
	18.0	87.5	2.6	66.23	114	---	**SK 8407 - 324T**	1431	264
	17.0	92.7	2.6	70.36	110	---			
	14.0	113	2.3	88.85	104	---			
	14.0	113	2.2	83.62	110	---			
	11.0	143	1.9	114.14	96	---			
	11.0	143	1.8	107.43	101	---			
	9.2	171	1.3	130.05	85	---	**SK 8507 - 324T**	1431	264
	8.7	181	1.3	138.15	81	---			
	13.0	121	2.9	95.36	131	---	**SK 9407 - 324T**	2165	270
	11.0	143	2.6	104.85	127	---			
	10.0	158	2.2	116.35	110	---	**SK 9507 - 324T**	2165	270
	9.4	168	2.2	127.88	105	---			
	7.9	199	1.8	151.28	105	---			
	7.2	219	1.7	166.30	102	---			
	6.6	239	1.5	182.86	107	---			
	6.0	263	1.4	200.99	105	---			

25 hp - 30 hp
Right-angle Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
25	11.0	143	2.8	107.43	148	---	**SK 10407 - 324T**	2383	276
	10.0	158	2.7	117.65	141	---			
	9.2	171	2.5	131.07	124	---	**SK 10507 - 324T**	2383	276
	8.4	188	2.4	143.51	119	---			
	7.0	225	1.9	170.43	119	---			
	6.4	246	1.8	186.63	116	---			
	5.8	272	1.5	205.98	119	---			
	5.3	297	1.5	225.57	114	---			
	6.7	235	2.5	178.17	130	---	**SK 11507 - 324T**	3384	282
	6.2	254	2.5	195.05	125	---			
	5.3	297	2.1	228.01	127	---			
	4.8	328	2.1	249.61	125	---			
	4.1	384	1.5	289.22	122	---			
	3.8	415	1.4	316.62	117	---			
	5.3	297	2.8	226.08	166	---	**SK 12507 - 324T**	4839	288
	4.9	322	2.8	246.62	159	---			
	4.2	375	2.2	287.82	156	---			
	3.8	415	2.1	313.96	150	---			
	3.3	478	1.8	366.99	150	---			
	3.0	525	1.7	400.33	144	---			
	4.2	375	2.9	284.85	198	---	**SK 13507 - 324T**	7033	294
	3.9	404	2.9	310.73	198	---			
	3.3	478	2.5	367.77	187	---			
	3.0	525	2.4	401.17	180	---			
30	26.0	72.7	2.7	45.45	98	---	**SK 7407 - 326T**	1301	258
	24.0	78.8	2.7	49.96	93	---			
	21.0	90	2.0	58.09	101	---			
	19.0	99.5	2.0	63.90	98	---			
	16.0	118	1.6	73.39	98	---			
	15.0	126	1.7	80.67	93	---			
	13.0	145	1.4	94.30	90	---			
	12.0	158	1.4	103.66	88	---			
	23.0	82.2	3.0	51.78	110	---	**SK 8407 - 326T**	1431	264
	22.0	86	3.0	55.02	104	---			
	18.0	105	2.2	66.23	114	---			
	17.0	111	2.2	70.36	110	---			
	14.0	135	1.9	88.85	104	---			
	14.0	135	1.8	83.62	110	---			
	11.0	172	1.6	114.14	96	---			
	11.0	172	1.5	107.43	101	---			

30 hp - 40 hp
Right-angle Drives
n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
30	16.0	118	2.8	74.21	143	---	**SK 9407 - 326T**	2165	270
	15.0	126	2.8	81.57	135	---			
	13.0	145	2.4	95.36	131	---			
	11.0	172	2.2	104.85	127	---			
	10.0	189	1.9	116.35	110	---	**SK 9507 - 326T**	2165	270
	9.4	201	1.8	127.88	105	---			
	7.9	239	1.5	151.28	105	---			
	7.2	263	1.4	166.30	102	---			
	14.0	135	2.8	83.62	162	---	**SK 10407 - 326T**	2383	276
	13.0	145	2.8	91.55	153	---			
	11.0	172	2.3	107.43	148	---			
	10.0	189	2.3	117.65	141	---			
	9.2	206	2.1	131.07	124	---	**SK 10507 - 326T**	2383	276
	8.4	225	2.0	143.51	119	---			
	7.0	270	1.6	170.43	119	---			
	6.4	295	1.5	186.63	116	---			
	8.3	228	2.7	144.75	136	---	**SK 11507 - 326T**	3384	282
	7.6	249	2.6	158.47	136	---			
	6.7	282	2.1	178.17	130	---			
	6.2	305	2.1	195.05	125	---			
	5.3	357	1.7	228.01	127	---			
	4.8	394	1.7	249.61	125	---			
	6.8	278	2.9	177.31	178	---	**SK 12507 - 326T**	4839	288
	6.2	305	2.9	193.41	166	---			
	5.3	357	2.3	226.08	166	---			
	4.9	386	2.4	246.62	159	---			
	4.2	450	1.8	287.82	156	---			
	3.8	498	1.8	313.96	150	---			
	3.3	573	1.5	366.99	150	---			
	3.0	630	1.5	400.33	144	---			
	4.2	450	2.4	284.85	198	---	**SK 13507 - 326T**	7033	294
	3.9	485	2.4	310.73	198	---			
	3.3	573	2.1	367.77	187	---			
	3.0	630	2.0	401.17	180	---			
40	42.0	60	2.8	28.53	108	---	**SK 7407 - 364T**	1301	258
	38.0	66.3	2.8	31.36	101	---			
	33.0	76.4	2.4	35.97	101	---			
	30.0	84	2.4	39.57	98	---			
	26.0	97	2.0	45.45	98	---			
	24.0	105	2.0	49.96	93	---			
	21.0	120	1.5	58.09	101	---			
	19.0	133	1.5	63.90	98	---			

40 hp
Right-angle Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
40	29.0	86.9	2.6	41.01	114	---	SK 8407 - 364T	1431	264
	28.0	90	2.7	43.57	110	---			
	23.0	110	2.2	51.78	110	---			
	22.0	115	2.3	55.02	104	---			
	18.0	140	1.6	66.23	114	---			
	17.0	148	1.6	70.36	110	---			
	14.0	180	1.4	88.85	104	---			
	14.0	180	1.4	83.62	110	---			
	20.0	126	2.5	58.79	147	---	SK 9407 - 364T	2165	270
	19.0	133	2.5	64.60	143	---			
	16.0	158	2.1	74.21	143	---			
	15.0	168	2.1	81.57	135	---			
	13.0	194	1.8	95.36	131	---			
	11.0	229	1.6	104.85	127	---			
	10.0	252	1.4	116.35	110	---	SK 9507 - 364T	2165	270
	9.4	268	1.4	127.88	105	---			
	18.0	140	2.6	66.23	167	---	SK 10407 - 364T	2383	276
	17.0	148	2.6	72.49	162	---			
	14.0	180	2.1	83.62	162	---			
	13.0	194	2.1	91.55	153	---			
	11.0	229	1.7	107.43	148	---			
	10.0	252	1.7	117.65	141	---			
	9.2	274	1.6	131.07	124	---	SK 10507 - 364T	2383	276
	8.4	300	1.5	143.51	119	---			
	11.0	229	2.6	113.11	142	---	SK 11507 - 364T	3384	282
	9.7	260	2.5	123.83	136	---			
	8.3	304	2.0	144.75	136	---			
	7.6	332	2.0	158.47	136	---			
	6.7	376	1.6	178.17	130	---			
	6.2	407	1.6	195.05	125	---			
	8.3	304	2.7	143.87	182	---	SK 12507 - 364T	4839	288
	7.6	332	2.7	156.94	174	---			
	6.8	371	2.2	177.31	178	---			
	6.2	407	2.2	193.41	166	---			
	5.3	476	1.8	226.08	166	---			
	4.9	515	1.8	246.62	159	---			
	4.2	600	1.3	287.82	156	---			
	3.8	663	1.3	313.96	150	---			

40 hp - 50 hp
Right-angle Drives
n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
40	5.2	485	2.4	229.66	207	---	**SK 13507 - 364T**	7033	294
	4.8	525	2.4	250.52	198	---			
	4.2	600	1.8	284.85	198	---			
	3.9	646	1.8	310.73	198	---			
	3.3	764	1.5	367.77	187	---			
	3.0	840	1.5	401.17	180	---			
	3.3	764	2.6	362.35	272	---	**SK 15507 - 364T**	10902	300
	3.0	840	2.6	395.26	256	---			
50	42.0	75	2.3	28.53	108	---	**SK 7407 - 365T**	1301	258
	38.0	82.9	2.3	31.36	101	---			
	33.0	95.5	1.9	35.97	101	---			
	30.0	105	1.9	39.57	98	---			
	26.0	121	1.6	45.45	98	---			
	24.0	131	1.6	49.96	93	---			
	37.0	85.2	2.5	32.50	121	---	**SK 8407 - 365T**	1431	264
	35.0	90	2.5	34.53	114	---			
	29.0	109	2.1	41.01	114	---			
	28.0	113	2.2	43.57	110	---			
	23.0	137	1.8	51.78	110	---			
	22.0	143	1.8	55.02	104	---			
	18.0	175	1.3	66.23	114	---			
	17.0	185	1.3	70.36	110	---			
	26.0	121	2.7	45.95	143	---	**SK 9407 - 365T**	2165	270
	24.0	131	2.7	50.51	135	---			
	20.0	158	2.0	58.79	147	---			
	19.0	166	2.0	64.60	143	---			
	16.0	197	1.7	74.21	143	---			
	15.0	210	1.7	81.57	135	---			
	13.0	242	1.5	95.36	131	---			
	11.0	287	1.3	104.85	127	---			
	23.0	137	2.8	51.78	162	---	**SK 10407 - 365T**	2383	276
	21.0	150	2.7	56.70	153	---			
	18.0	175	2.0	66.23	167	---			
	17.0	185	2.0	72.49	162	---			
	14.0	225	1.7	83.62	162	---			
	13.0	242	1.7	91.55	153	---			
	11.0	287	1.4	107.43	148	---			
	10.0	315	1.4	117.65	141	---			

50 hp - 60 hp
Right-angle Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
50	15.0	210	2.8	79.13	150	---	**SK 11507 - 365T**	3384	282
	13.0	242	2.5	92.50	146	---			
	12.0	263	2.5	101.26	139	---			
	11.0	287	2.0	113.11	142	---			
	9.7	325	2.0	123.83	136	---			
	8.3	380	1.6	144.75	136	---			
	7.6	415	1.6	158.47	136	---			
	11.0	287	2.8	112.83	191	---	**SK 12507 - 365T**	4839	288
	9.7	325	2.7	123.08	182	---			
	8.3	380	2.2	143.87	182	---			
	7.6	415	2.2	156.94	174	---			
	6.8	463	1.7	177.31	178	---			
	6.2	508	1.7	193.41	166	---			
	5.3	595	1.4	226.08	166	---			
	4.9	643	1.4	246.62	159	---			
	6.7	470	2.4	177.88	216	---	**SK 13507 - 365T**	7033	294
	6.2	508	2.4	194.04	212	---			
	5.2	606	1.9	229.66	207	---			
	4.8	657	1.9	250.52	198	---			
	4.2	750	1.4	284.85	198	---			
	3.9	808	1.5	310.73	198	---			
	4.2	750	2.5	283.98	272	---	**SK 15507 - 365T**	10902	300
	3.9	808	2.6	309.77	267	---			
	3.3	955	2.1	362.35	272	---			
	3.0	1050	2.1	395.26	256	---			
60	54.0	70	2.6	22.09	101	---	**SK 7407 - 404/5T**	1301	258
	49.0	77.2	2.6	24.30	98	---			
	42.0	90	1.9	28.53	108	---			
	38.0	99.5	1.9	31.36	101	---			
	33.0	115	1.6	35.97	101	---			
	30.0	126	1.6	39.57	98	---			
	26.0	145	1.3	45.45	98	---			
	24.0	158	1.4	49.96	93	---			
	48.0	78.8	2.9	25.18	114	---	**SK 8407 - 404/5T**	1431	264
	45.0	84	2.9	26.76	110	---			
	37.0	102	2.1	32.50	121	---			
	35.0	108	2.1	34.53	114	---			
	29.0	130	1.8	41.01	114	---			
	28.0	135	1.8	43.57	110	---			
	23.0	164	1.5	51.78	110	---			
	22.0	172	1.5	55.02	104	---			

60 hp
Right-angle Drives
n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
60	33.0	115	2.7	36.40	147	---	**SK 9407 - 404/5T**	2165	270
	30.0	126	2.6	40.00	143	---			
	26.0	145	2.3	45.95	143	---			
	24.0	158	2.2	50.51	135	---			
	20.0	189	1.6	58.79	147	---			
	19.0	199	1.7	64.60	143	---			
	16.0	236	1.4	74.21	143	---			
	15.0	252	1.4	81.57	135	---			
	29.0	130	2.7	41.01	167	---	**SK 10407 - 404/5T**	2383	276
	27.0	140	2.7	44.89	162	---			
	23.0	164	2.3	51.78	162	---			
	21.0	180	2.2	56.70	153	---			
	18.0	210	1.7	66.23	167	---			
	17.0	222	1.7	72.49	162	---			
	14.0	270	1.4	83.62	162	---			
	13.0	291	1.4	91.55	153	---			
	18.0	210	2.8	65.59	176	---	**SK 11407 - 404/5T**	3219	282
	17.0	222	2.9	71.80	166	---			
	15.0	252	2.3	79.13	150	---	**SK 11507 - 404/5T**	3384	282
	13.0	291	2.1	92.50	146	---			
	12.0	315	2.1	101.26	139	---			
	11.0	344	1.7	113.11	142	---			
	9.7	390	1.6	123.83	136	---			
	8.3	456	1.3	144.75	136	---			
	7.6	498	1.3	158.47	136	---			
	13.0	291	2.8	91.72	187	---	**SK 12507 - 404/5T**	4839	288
	12.0	315	2.8	100.05	178	---			
	11.0	344	2.3	112.83	191	---			
	9.7	390	2.2	123.08	182	---			
	8.3	456	1.8	143.87	182	---			
	7.6	498	1.8	156.94	174	---			
	6.8	556	1.4	177.31	178	---			
	6.2	610	1.4	193.41	166	---			
	8.2	461	2.5	146.08	227	---	**SK 13507 - 404/5T**	7033	294
	7.5	504	2.5	159.35	216	---			
	6.7	564	2.0	177.88	216	---			
	6.2	610	2.0	194.04	212	---			
	5.2	727	1.6	229.66	207	---			
	4.8	788	1.6	250.52	198	---			

60 hp - 75 hp
Right-angle Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
60	5.3	714	2.8	226.28	290	---	**SK 15507 - 404/5T**	10902	300
	4.9	772	2.8	246.83	278	---			
	4.2	900	2.1	283.98	272	---			
	3.9	970	2.1	309.77	267	---			
	3.3	1150	1.8	362.35	272	---			
	3.0	1260	1.7	395.26	256	---			
75	68.0	69.5	2.5	17.52	108	---	**SK 7407 - 404/5T**	1301	258
	62.0	76.2	2.5	19.26	101	---			
	54.0	87.5	2.1	22.09	101	---			
	49.0	96.5	2.1	24.30	98	---			
	42.0	113	1.5	28.53	108	---			
	38.0	124	1.5	31.36	101	---			
	60.0	78.8	2.7	19.96	121	---	**SK 8407 - 404/5T**	1431	264
	57.0	82.9	2.8	21.20	114	---			
	48.0	98.5	2.3	25.18	114	---			
	45.0	105	2.3	26.76	110	---			
	37.0	128	1.7	32.50	121	---			
	35.0	135	1.7	34.53	114	---			
	29.0	163	1.4	41.01	114	---			
	28.0	169	1.4	43.57	110	---			
	42.0	113	2.6	28.85	157	---	**SK 9407 - 404/5T**	2165	270
	38.0	124	2.5	31.72	147	---			
	33.0	143	2.2	36.40	147	---			
	30.0	158	2.1	40.00	143	---			
	26.0	182	1.8	45.95	143	---			
	24.0	197	1.8	50.51	135	---			
	20.0	236	1.3	58.79	147	---			
	37.0	128	2.6	32.50	178	---	**SK 10407 - 404/5T**	2383	276
	34.0	139	2.6	35.59	167	---			
	29.0	163	2.2	41.01	167	---			
	27.0	175	2.2	44.89	162	---			
	23.0	206	1.9	51.78	162	---			
	21.0	225	1.8	56.70	153	---			
	18.0	263	1.4	66.23	167	---			
	17.0	278	1.4	72.49	162	---			
	23.0	206	2.5	51.25	181	---	**SK 11407 - 404/5T**	3219	282
	21.0	225	2.4	56.11	176	---			
	18.0	263	2.2	65.59	176	---			
	17.0	278	2.3	71.80	166	---			

75 hp - 100 hp
Right-angle Drives
n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
75	15.0	315	1.8	79.13	150	---	**SK 11507 - 404/5T**	3384	282
	13.0	364	1.7	92.50	146	---			
	12.0	394	1.7	101.26	139	---			
	11.0	430	1.4	113.11	142	---			
	9.7	487	1.3	123.83	136	---			
	15.0	315	2.8	78.46	191	---	**SK 12507 - 404/5T**	4839	288
	13.0	364	2.3	91.72	187	---			
	12.0	394	2.3	100.05	178	---			
	11.0	430	1.9	112.83	191	---			
	9.7	487	1.8	123.08	182	---			
	8.3	570	1.4	143.87	182	---			
	7.6	622	1.4	156.94	174	---			
	11.0	430	2.6	113.14	232	---	**SK 13507 - 404/5T**	7033	294
	9.7	487	2.5	123.42	227	---			
	8.2	576	2.0	146.08	227	---			
	7.5	630	2.0	159.35	216	---			
	6.7	706	1.6	177.88	216	---			
	6.2	762	1.6	194.04	212	---			
	6.8	695	2.8	177.34	311	---	**SK 15507 - 404/5T**	10902	300
	6.2	762	2.7	193.45	297	---			
	5.3	892	2.2	226.28	290	---			
	4.9	965	2.3	246.83	278	---			
	4.2	1130	1.7	283.98	272	---			
	3.9	1210	1.7	309.77	267	---			
	3.3	1430	1.4	362.35	272	---			
	3.0	1580	1.4	395.26	256	---			
100	68.0	92.7	1.8	17.52	108	---	**SK 7407 - 444/5T**	1301	258
	62.0	102	1.8	19.26	101	---			
	54.0	117	1.6	22.09	101	---			
	49.0	129	1.6	24.30	98	A/Fan*			
	60.0	105	2.1	19.96	121	---	**SK 8407 - 444/5T**	1431	264
	57.0	111	2.1	21.20	114	---			
	48.0	131	1.7	25.18	114	---			
	45.0	140	1.7	26.76	110	---			
	54.0	117	2.7	22.35	147	---	**SK 9407 - 444/5T**	2165	270
	49.0	129	2.6	24.56	143	---			
	42.0	150	1.9	28.85	157	---			
	38.0	166	1.9	31.72	147	---			
	33.0	191	1.6	36.40	147	---			
	30.0	210	1.6	40.00	143	---			
	26.0	242	1.4	45.95	143	---			
	24.0	263	1.3	50.51	135	---			

100 hp - 125 hp
Right-angle Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
100	48.0	131	2.7	25.18	167	---	**SK 10407 - 444/5T**	2383	276
	44.0	143	2.6	27.56	162	---			
	37.0	170	2.0	32.50	178	---			
	34.0	185	1.9	35.59	167	---			
	29.0	217	1.6	41.01	167	---			
	27.0	233	1.6	44.89	162	---			
	23.0	274	1.4	51.78	162	---			
	21.0	300	1.3	56.70	153	---			
	30.0	210	2.8	40.26	176	---	**SK 11407 - 444/5T**	3219	282
	27.0	233	2.8	44.08	166	---			
	23.0	274	1.8	51.25	181	---			
	21.0	300	1.8	56.11	176	---			
	18.0	350	1.7	65.59	176	---			
	17.0	371	1.7	71.80	166	---			
	15.0	420	1.4	79.13	150	---	**SK 11507 - 444/5T**	3384	282
	24.0	263	3.0	51.01	247	---	**SK 12407 - 444/5T**	4817	288
	22.0	287	2.9	55.64	232	---			
	18.0	350	2.3	65.04	225	---			
	17.0	371	2.3	70.94	212	---			
	15.0	420	2.1	78.46	191	---	**SK 12507 - 444/5T**	4839	288
	13.0	485	1.7	91.72	187	---			
	12.0	525	1.7	100.05	178	---			
	11.0	573	1.4	112.83	191	---			
	9.7	650	1.3	123.08	182	---			
	15.0	420	2.6	77.66	244	---	**SK 13507 - 444/5T**	7033	294
	13.0	485	2.4	91.91	238	---			
	12.0	525	2.4	100.26	227	---			
	11.0	573	1.9	113.14	232	---			
	9.7	650	1.9	123.42	227	---			
	8.2	769	1.5	146.08	227	---			
	7.5	840	1.5	159.35	216	---			
	8.4	750	2.6	142.47	319	---	**SK 15507 - 444/5T**	10902	300
	7.7	819	2.6	155.41	304	---			
	6.8	927	2.1	177.34	311	---			
	6.2	1020	2.1	193.45	297	---			
	5.3	1190	1.7	226.28	290	---			
	4.9	1290	1.7	246.83	278	---			
125	68.0	116	1.5	17.52	108	A/Fan*	**SK 7407 - 444/5T**	1301	258
	62.0	127	1.5	19.26	101	A/Fan*			
	60.0	131	1.6	19.96	121	A/Fan*	**SK 8407 - 444/5T**	1431	264
	57.0	138	1.7	21.20	114	A/Fan*			
	48.0	164	1.4	25.18	114	A/Fan*			
	45.0	175	1.4	26.76	110	A/Fan*			

125 hp
Right-angle Drives
n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
125	68.0	116	2.5	17.72	157	---	**SK 9407 - 444/5T**	2165	270
	62.0	127	2.4	19.48	147	---			
	54.0	146	2.1	22.35	147	---			
	49.0	161	2.1	24.56	143	---			
	42.0	188	1.5	28.85	157	---			
	38.0	207	1.5	31.72	147	---			
	60.0	131	2.5	19.96	178	---	**SK 10407 - 444/5T**	2383	276
	55.0	143	2.5	21.86	167	---			
	48.0	164	2.2	25.18	167	---			
	44.0	179	2.1	27.56	162	---			
	37.0	213	1.6	32.50	178	---			
	34.0	232	1.5	35.59	167	---			
	29.0	272	1.3	41.01	167	---			
	38.0	207	2.7	31.46	181	---	**SK 11407 - 444/5T**	3219	282
	35.0	225	2.5	34.45	176	---			
	30.0	263	2.2	40.26	176	---			
	27.0	292	2.2	44.08	166	---			
	23.0	343	1.5	51.25	181	---			
	21.0	375	1.5	56.11	176	---			
	18.0	438	1.3	65.59	176	---			
	17.0	463	1.4	71.80	166	---			
	24.0	328	2.4	51.01	247	---	**SK 12407 - 444/5T**	4817	288
	22.0	358	2.4	55.64	232	---			
	18.0	438	1.8	65.04	225	---			
	17.0	463	1.9	70.94	212	---			
	15.0	525	1.7	78.46	191	---	**SK 12507 - 444/5T**	4839	288
	13.0	606	1.4	91.72	187	---			
	12.0	657	1.4	100.05	178	---			
	18.0	438	2.5	65.17	289	---	**SK 13407 - 444/5T**	6548	294
	17.0	463	2.6	71.09	272	---			
	15.0	525	2.1	77.66	244	---	**SK 13507 - 444/5T**	7033	294
	13.0	606	1.9	91.91	238	---			
	12.0	657	1.9	100.26	227	---			
	11.0	716	1.6	113.14	232	---			
	9.7	812	1.5	123.42	227	---			
	11.0	716	2.7	111.66	344	---	**SK 15507 - 444/5T**	10902	300
	9.9	796	2.6	121.80	327	---			
	8.4	938	2.1	142.47	319	---			
	7.7	1020	2.1	155.41	304	---			
	6.8	1160	1.7	177.34	311	---			
	6.2	1270	1.6	193.45	297	---			
	5.3	1490	1.3	226.28	290	---			
	4.9	1610	1.4	246.83	278	---			

150 hp
Right-angle Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

GEARMOTOR

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
150	60.0	158	1.4	19.96	121	A/Fan*	**SK 8407 - 447/9T**	1431	264
	57.0	166	1.4	21.20	114	A/Fan*			
	68.0	139	2.1	17.72	157	---	**SK 9407 - 447/9T**	2165	270
	62.0	152	2.0	19.48	147	A/Fan*			
	54.0	175	1.8	22.35	147	A/Fan*			
	49.0	193	1.7	24.56	143	A/Fan*			
	60.0	158	2.1	19.96	178	---	**SK 10407 - 447/9T**	2383	276
	55.0	172	2.1	21.86	167	---			
	48.0	197	1.8	25.18	167	---			
	44.0	215	1.8	27.56	162	---			
	37.0	256	1.3	32.50	178	---			
	46.0	206	2.8	26.04	176	---	**SK 11407 - 447/9T**	3219	282
	42.0	225	2.9	28.50	166	---			
	38.0	249	2.2	31.46	181	---			
	35.0	270	2.1	34.45	176	---			
	30.0	315	1.9	40.26	176	---			
	27.0	350	1.8	44.08	166	---			
	30.0	315	2.6	39.92	225	---	**SK 12407 - 447/9T**	4817	288
	28.0	338	2.6	43.55	212	---			
	24.0	394	2.0	51.01	247	---			
	22.0	430	2.0	55.64	232	---			
	18.0	525	1.5	65.04	225	---			
	17.0	556	1.6	70.94	212	---			
	15.0	630	1.4	78.46	191	---	**SK 12507 - 447/9T**	4839	288
	24.0	394	2.7	50.48	298	---	**SK 13407 - 447/9T**	6548	294
	22.0	430	2.7	55.07	289	---			
	18.0	525	2.1	65.17	289	---			
	17.0	556	2.2	71.09	272	---			
	15.0	630	1.7	77.66	244	---	**SK 13507 - 447/9T**	7033	294
	13.0	727	1.6	91.91	238	---			
	12.0	788	1.6	100.26	227	---			
	13.0	727	2.7	90.56	344	---	**SK 15507 - 447/9T**	10902	300
	12.0	788	2.7	98.78	327	---			
	11.0	860	2.2	111.66	344	---			
	9.9	955	2.2	121.80	327	---			
	8.4	1130	1.8	142.47	319	---			
	7.7	1230	1.8	155.41	304	---			
	6.8	1390	1.4	177.34	311	---			
	6.2	1520	1.4	193.45	297	---			

200 hp Right-angle Drives $n_1 = 1200$ rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
200	68.0	185	1.6	17.72	157	A/Fan*	**SK 9407 - 447/9T**	2165	270
	62.0	203	1.5	19.48	147	A/Fan*			
	54.0	233	1.3	22.35	147	A/Fan*			
	60.0	210	1.6	19.96	178	A/Fan*	**SK 10407 - 447/9T**	2383	276
	55.0	229	1.5	21.86	167	A/Fan*			
	48.0	263	1.4	25.18	167	A/Fan*			
	44.0	287	1.3	27.56	162	A/Fan*			
	73.0	173	3.0	16.34	193	A/Fan*	**SK 11407 - 447/9T**	3219	282
	67.0	188	2.7	17.89	187	A/Fan*			
	59.0	214	2.3	20.35	181	A/Fan*			
	54.0	233	2.3	22.27	176	A/Fan*			
	46.0	274	2.1	26.04	176	A/Fan*			
	42.0	300	2.1	28.50	166	A/Fan*			
	38.0	332	1.7	31.46	181	A/Fan*			
	35.0	360	1.6	34.45	176	A/Fan*			
	30.0	420	1.4	40.26	176	A/Fan*			
	27.0	467	1.4	44.08	166	A/Fan*			
	46.0	274	2.9	25.82	225	---	**SK 12407 - 447/9T**	4817	288
	43.0	293	3.0	28.16	212	---			
	38.0	332	2.3	31.31	247	---			
	35.0	360	2.3	34.16	232	---			
	30.0	420	1.9	39.92	225	---			
	28.0	450	1.9	43.55	212	---			
	24.0	525	1.5	51.01	247	---			
	22.0	573	1.5	55.64	232	---			
	30.0	420	2.7	40.01	289	---	**SK 13407 - 447/9T**	6548	294
	27.0	467	2.6	43.64	272	---			
	24.0	525	2.1	50.48	298	---			
	22.0	573	2.1	55.07	289	---			
	18.0	700	1.6	65.17	289	---			
	17.0	742	1.6	71.09	272	---			
	15.0	840	1.3	77.66	244	---	**SK 13507 - 447/9T**	7033	294
	24.0	525	2.9	50.33	421	---	**SK 15407 - 447/9T**	10516	300
	22.0	573	2.9	54.90	408	---			
	19.0	663	2.9	64.21	408	---			
	17.0	742	2.8	70.05	384	---			

200 hp - 250 hp
Right-angle Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
200	15.0	840	2.2	77.42	363	---	**SK 15507 - 447/9T**	10902	300
	13.0	970	2.0	90.56	344	---			
	12.0	1050	2.0	98.78	327	---			
	11.0	1150	1.7	111.66	344	---			
	9.9	1270	1.6	121.80	327	---			
	8.4	1500	1.3	142.47	319	---			
	7.7	1640	1.3	155.41	304	---			
250	94.0	168	2.7	12.74	199	A/Fan*	**SK 11407 - 447/9T**	3219	282
	86.0	183	2.7	13.95	193	A/Fan*			
	73.0	216	2.4	16.34	193	A/Fan*			
	67.0	235	2.2	17.89	187	A/Fan*			
	59.0	267	1.9	20.35	181	A/Fan*			
	54.0	292	1.9	22.27	176	A/Fan*			
	46.0	343	1.7	26.04	176	A/Fan*			
	42.0	375	1.7	28.50	166	A/Fan*			
	38.0	415	1.3	31.46	181	A/Fan*			
	59.0	267	2.9	20.25	247	A/Fan	**SK 12407 - 447/9T**	4817	288
	54.0	292	2.9	22.09	232	A/Fan			
	46.0	343	2.4	25.82	225	A/Fan			
	43.0	366	2.4	28.16	212	A/Fan			
	38.0	415	1.8	31.31	247	A/Fan			
	35.0	450	1.8	34.16	232	A/Fan			
	30.0	525	1.5	39.92	225	A/Fan			
	28.0	563	1.5	43.55	212	A/Fan			
	39.0	404	2.6	30.99	298	---	**SK 13407 - 447/9T**	6548	294
	36.0	438	2.6	33.80	289	---			
	30.0	525	2.1	40.01	289	---			
	27.0	584	2.1	43.64	272	---			
	24.0	657	1.6	50.48	298	---			
	22.0	716	1.6	55.07	289	---			
	18.0	875	1.3	65.17	289	---			
	17.0	927	1.3	71.09	272	---			
	24.0	657	2.3	50.33	421	---	**SK 15407 - 447/9T**	10516	300
	22.0	716	2.3	54.90	408	---			
	19.0	829	2.3	64.21	408	---			
	17.0	927	2.2	70.05	384	---			
	15.0	1050	1.7	77.42	363	---	**SK 15507 - 447/9T**	10902	300
	13.0	1210	1.6	90.56	344	---			
	12.0	1310	1.6	98.78	327	---			

300 hp - 350 hp Right-angle Drives n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
300	94.0	201	2.2	12.74	199	A/Fan*	**SK 11407 - 447/9T**	3219	282
	86.0	220	2.2	13.95	193	B/Fan*			
	73.0	259	2.0	16.34	193	B/Fan*			
	67.0	282	1.8	17.89	187	B/Fan*			
	59.0	320	1.6	20.35	181	B/Fan*			
	54.0	350	1.6	22.27	176	B/Fan*			
	46.0	411	1.4	26.04	176	B/Fan*			
	42.0	450	1.4	28.50	166	B/Fan*			
	73.0	259	2.9	16.33	247	A/Fan*	**SK 12407 - 447/9T**	4817	288
	67.0	282	2.9	17.81	239	A/Fan*			
	59.0	320	2.4	20.25	247	A/Fan*			
	54.0	350	2.4	22.09	232	A/Fan*			
	46.0	411	2.0	25.82	225	A/Fan*			
	43.0	440	2.0	28.16	212	A/Fan*			
	38.0	498	1.5	31.31	247	A/Fan*			
	35.0	540	1.5	34.16	232	A/Fan*			
	46.0	411	2.7	25.87	289	A/Fan	**SK 13407 - 447/9T**	6548	294
	43.0	440	2.8	28.22	272	A/Fan			
	39.0	485	2.2	30.99	298	A/Fan			
	36.0	525	2.2	33.80	289	A/Fan			
	30.0	630	1.8	40.01	289	A/Fan			
	27.0	700	1.7	43.64	272	A/Fan			
	24.0	788	1.4	50.48	298	A/Fan			
	22.0	860	1.4	55.07	289	A/Fan			
	24.0	788	1.9	50.33	421	---	**SK 15407 - 447/9T**	10516	300
	22.0	860	1.9	54.90	408	---			
	19.0	995	1.9	64.21	408	---			
	17.0	1110	1.9	70.05	384	---			
	15.0	1260	1.5	77.42	363	---	**SK 15507 - 447/9T**	10902	300
	13.0	1450	1.4	90.56	344	---			
	12.0	1580	1.4	98.78	327	---			
350	94.0	235	1.9	12.74	199	B/Fan*	**SK 11407 - 585/6**	3219	282
	86.0	257	1.9	13.95	193	B/Fan*			
	73.0	302	1.7	16.34	193	B/Fan*			
	67.0	329	1.5	17.89	187	B/Fan*			
	59.0	374	1.3	20.35	181	B			
	54.0	409	1.3	22.27	176	B			

350 hp - 400 hp
Right-angle Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

GEARMOTOR

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
350	94.0	235	2.8	12.81	264	A/Fan*	**SK 12407 - 585/6**	4817	288
	86.0	257	2.7	13.97	247	A/Fan*			
	73.0	302	2.5	16.33	247	A/Fan*			
	67.0	329	2.5	17.81	239	B/Fan*			
	59.0	374	2.1	20.25	247	A/Fan*			
	54.0	409	2.1	22.09	232	B/Fan*			
	46.0	480	1.7	25.82	225	B/Fan*			
	43.0	513	1.7	28.16	212	B/Fan*			
	38.0	581	1.3	31.31	247	A/Fan*			
	35.0	630	1.3	34.16	232	B/Fan*			
	60.0	368	2.9	20.04	298	A/Fan	**SK 13407 - 585/6**	6548	294
	55.0	401	2.9	21.86	289	A/Fan			
	46.0	480	2.3	25.87	289	A/Fan			
	43.0	513	2.4	28.22	272	A/Fan			
	39.0	566	1.9	30.99	298	A/Fan			
	36.0	613	1.9	33.80	289	A/Fan			
	30.0	735	1.5	40.01	289	A/Fan			
	27.0	817	1.5	43.64	272	A/Fan			
	39.0	566	2.6	30.89	421	---	**SK 15407 - 585/6**	10516	300
	36.0	613	2.6	33.70	408	---			
	30.0	735	2.6	39.42	408	---			
	28.0	788	2.6	43.00	384	---			
	24.0	919	1.6	50.33	421	---			
	22.0	1000	1.6	54.90	408	---			
	19.0	1160	1.6	64.21	408	---			
	17.0	1300	1.6	70.05	384	---			
400	94.0	268	1.7	12.74	199	B	**SK 11407 - 585/6**	3219	282
	86.0	293	1.7	13.95	193	B			
	73.0	345	1.5	16.34	193	B			
	67.0	376	1.4	17.89	187	B			
	94.0	268	2.5	12.81	264	B/Fan*	**SK 12407 - 585/6**	4817	288
	86.0	293	2.4	13.97	247	B/Fan*			
	73.0	345	2.2	16.33	247	B/Fan*			
	67.0	376	2.2	17.81	239	B/Fan*			
	59.0	427	1.8	20.25	247	B/Fan*			
	54.0	467	1.8	22.09	232	B/Fan*			
	46.0	548	1.5	25.82	225	B/Fan*			
	43.0	586	1.5	28.16	212	B/Fan*			

400 hp - 450 hp
Right-angle Drives
n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
400	69.0	365	3.0	17.45	307	A/Fan*	**SK 13407 - 585/6**	6548	294
	60.0	420	2.6	20.04	298	A/Fan*			
	55.0	458	2.5	21.86	289	B/Fan*			
	46.0	548	2.0	25.87	289	B/Fan*			
	43.0	586	2.1	28.22	272	B/Fan*			
	39.0	646	1.6	30.99	298	A/Fan*			
	36.0	700	1.6	33.80	289	B/Fan*			
	30.0	840	1.3	40.01	289	B/Fan*			
	27.0	934	1.3	43.64	272	B/Fan*			
	39.0	646	2.3	30.89	421	---	**SK 15407 - 585/6**	10516	300
	36.0	700	2.3	33.70	408	---			
	30.0	840	2.2	39.42	408	---			
	28.0	900	2.3	43.00	384	A/Fan*			
	24.0	1050	1.4	50.33	421	---			
	22.0	1150	1.4	54.90	408	---			
	19.0	1330	1.4	64.21	408	---			
	17.0	1480	1.4	70.05	384	A/Fan*			
450	94.0	302	1.5	12.74	199	B	**SK 11407 - 586/7**	3219	282
	86.0	330	1.5	13.95	193	C			
	73.0	389	1.3	16.34	193	C			
	94.0	302	2.2	12.81	264	B/Fan*	**SK 12407 - 586/7**	4817	288
	86.0	330	2.1	13.97	247	B/Fan*			
	73.0	389	1.9	16.33	247	B/Fan*			
	67.0	423	1.9	17.81	239	B/Fan*			
	59.0	481	1.6	20.25	247	B/Fan*			
	54.0	525	1.6	22.09	232	B			
	46.0	617	1.3	25.82	225	B			
	43.0	660	1.3	28.16	212	B			
	92.0	308	2.9	13.04	328	B/Fan*	**SK 13407 - 586/7**	6548	294
	84.0	338	2.7	14.22	317	B/Fan*			
	75.0	378	2.7	16.00	317	B/Fan*			
	69.0	411	2.6	17.45	307	B/Fan*			
	60.0	473	2.3	20.04	298	B/Fan*			
	55.0	516	2.2	21.86	289	B/Fan*			
	46.0	617	1.8	25.87	289	B/Fan*			
	43.0	660	1.8	28.22	272	B/Fan*			
	39.0	727	1.5	30.99	298	B/Fan*			
	36.0	788	1.5	33.80	289	B/Fan*			
	47.0	603	2.9	25.49	408	A/Fan*	**SK 15407 - 586/7**	10516	300
	43.0	660	2.7	27.81	384	A/Fan*			
	39.0	727	2.0	30.89	421	A/Fan*			
	36.0	788	2.0	33.70	408	A/Fan*			
	30.0	945	2.0	39.42	408	A/Fan*			
	28.0	1010	2.0	43.00	384	A/Fan*			

500 hp - 600 hp
Right-angle Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
500	94.0	335	1.3	12.74	199	C	**SK 11407 - 587/8**	3219	282
	86.0	366	1.3	13.95	193	C			
	94.0	335	2.0	12.81	264	B/Fan*	**SK 12407 - 587/8**	4817	288
	86.0	366	1.9	13.97	247	C			
	73.0	432	1.7	16.33	247	C			
	67.0	470	1.7	17.81	239	C			
	59.0	534	1.5	20.25	247	C			
	54.0	584	1.4	22.09	232	C			
	92.0	343	2.6	13.04	328	B/Fan*	**SK 13407 - 587/8**	6548	294
	84.0	375	2.5	14.22	317	B/Fan*			
	75.0	420	2.4	16.00	317	B/Fan*			
	69.0	457	2.4	17.45	307	B/Fan*			
	60.0	525	2.1	20.04	298	B/Fan*			
	55.0	573	2.0	21.86	289	B/Fan*			
	46.0	685	1.6	25.87	289	B/Fan*			
	43.0	733	1.7	28.22	272	B/Fan*			
	39.0	808	1.3	30.99	298	B/Fan*			
	55.0	573	2.9	21.79	408	A/Fan*	**SK 15407 - 587/8**	10516	300
	47.0	671	2.6	25.49	408	A/Fan*			
	43.0	733	2.5	27.81	384	B/Fan*			
	39.0	808	1.8	30.89	421	A/Fan*			
	36.0	875	1.8	33.70	408	A/Fan*			
	30.0	1050	1.8	39.42	408	A/Fan*			
	28.0	1130	1.8	43.00	384	B/Fan*			
600	94.0	402	1.6	12.81	264	C	**SK 12407 - 587/8**	4817	288
	86.0	440	1.6	13.97	247	C			
	73.0	518	1.4	16.33	247	C			
	67.0	564	1.4	17.81	239	C			
	92.0	411	2.2	13.04	328	C/Fan*	**SK 13407 - 587/8**	6548	294
	84.0	450	2.0	14.22	317	C/Fan*			
	75.0	504	2.0	16.00	317	C/Fan*			
	69.0	548	2.0	17.45	307	C			
	60.0	630	1.7	20.04	298	C			
	55.0	688	1.7	21.86	289	C			
	46.0	822	1.4	25.87	289	C			
	43.0	879	1.4	28.22	272	C			

600 hp - 800 hp
Right-angle Drives
n_1 = 1200 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
600	75.0	504	2.8	16.10	450	B/Fan*	**SK 15407 - 587/8**	10516	300
	68.0	556	2.7	17.56	435	B/Fan*			
	60.0	630	2.6	19.98	421	B/Fan*			
	55.0	688	2.4	21.79	408	B/Fan*			
	47.0	805	2.2	25.49	408	B/Fan*			
	43.0	879	2.0	27.81	384	B/Fan*			
	39.0	970	1.5	30.89	421	B/Fan*			
	36.0	1050	1.5	33.70	408	B/Fan*			
	30.0	1260	1.5	39.42	408	B/Fan*			
	28.0	1350	1.5	43.00	384	B/Fan*			
700	94.0	469	1.4	12.81	264	D	**SK 12407**	4817	288
	86.0	513	1.4	13.97	247	D			
	92.0	480	1.8	13.04	328	C	**SK 13407**	6548	294
	84.0	525	1.8	14.22	317	D			
	75.0	588	1.7	16.00	317	D			
	69.0	639	1.7	17.45	307	D			
	60.0	735	1.5	20.04	298	D			
	55.0	802	1.4	21.86	289	D			
	95.0	464	2.8	12.61	484	B/Fan*	**SK 15407**	10516	300
	87.0	507	2.7	13.76	450	B/Fan*			
	75.0	588	2.4	16.10	450	B/Fan*			
	68.0	649	2.3	17.56	435	C/Fan*			
	60.0	735	2.2	19.98	421	C/Fan*			
	55.0	802	2.1	21.79	408	C/Fan*			
	47.0	939	1.9	25.49	408	C/Fan*			
	43.0	1030	1.8	27.81	384	C/Fan*			
	39.0	1130	1.3	30.89	421	C/Fan*			
	36.0	1230	1.3	33.70	408	C/Fan*			
	30.0	1470	1.3	39.42	408	C/Fan*			
800	92.0	548	1.6	13.04	328	E	**SK 13407**	6548	294
	84.0	600	1.5	14.22	317	E			
	75.0	672	1.5	16.00	317	E			
	69.0	731	1.5	17.45	307	E			
	95.0	531	2.5	12.61	484	C/Fan*	**SK 15407**	10516	300
	87.0	580	2.3	13.76	450	C/Fan*			
	75.0	672	2.1	16.10	450	C/Fan*			
	68.0	742	2.1	17.56	435	C/Fan*			
	60.0	840	2.0	19.98	421	D/Fan*			
	55.0	917	1.8	21.79	408	D			
	47.0	1070	1.6	25.49	408	D			
	43.0	1170	1.5	27.81	384	D			

900 hp
Right-angle Drives
n_1 = 1200 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
900	92.0	617	1.4	13.04	328	E	**SK 13407**	6548	294
	84.0	675	1.4	14.22	317	E			
	75.0	756	1.4	16.00	317	E			
	69.0	822	1.3	17.45	307	F			
	95.0	597	2.2	12.61	484	D/Fan*	**SK 15407**	10516	300
	87.0	652	2.1	13.76	450	D			
	75.0	756	1.9	16.10	450	D			
	68.0	834	1.8	17.56	435	E			
	60.0	945	1.7	19.98	421	E			
	55.0	1030	1.6	21.79	408	E			
	47.0	1210	1.5	25.49	408	E			
	43.0	1320	1.4	27.81	384	E			

Notes

7.5 hp - 15 hp
Right-angle Drives
n_1 = 1800 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
7.5	6.1	76.1	2.8	294.18	69	---	**SK 7507 - 213T**	1301	258
	5.6	83.2	2.7	323.47	66	---			
	5.0	95.6	2.2	362.29	65	---			
	4.5	106	2.1	398.37	66	---			
	5.1	92.9	2.9	356.15	73	---	**SK 8507 - 213T**	1431	264
	4.4	107	2.3	412.85	73	---			
	4.1	113	2.3	438.67	71	---			
10	7.9	79.7	2.7	226.60	69	---	**SK 7507 - 215T**	1301	258
	7.2	85.9	2.6	249.18	68	---			
	6.1	102	2.1	294.18	69	---			
	5.6	112	2.0	323.47	66	---			
	5.0	123	1.7	362.29	65	---			
	4.5	140	1.6	398.37	66	---			
	6.6	96.5	2.8	274.38	76	---	**SK 8507 - 215T**	1431	264
	5.4	118	2.3	335.21	76	---			
	5.1	123	2.2	356.15	73	---			
	4.4	145	1.7	412.85	73	---			
	4.1	154	1.7	438.67	71	---			
	5.0	127	2.8	357.22	94	---	**SK 9507 - 215T**	2165	270
	4.6	138	2.6	392.65	96	---			
	4.1	152	2.9	440.63	105	---	**SK 10507 - 215T**	2383	276
15	16.0	59.3	3.0	114.10	75	---	**SK 7507 - 254T**	1301	258
	14.0	67.3	2.9	125.47	72	---			
	12.0	79.7	2.7	148.13	72	---			
	11.0	85.9	2.6	162.86	71	---			
	9.9	92.9	2.2	182.45	74	---			
	9.0	106	2.1	200.62	72	---			
	7.9	119	1.8	226.60	69	---			
	7.2	132	1.7	249.18	68	---			
	6.1	153	1.4	294.18	69	---			
	5.6	173	1.3	323.47	66	---			
	10.0	92.9	2.9	179.35	79	---	**SK 8507 - 254T**	1431	264
	8.7	110	2.2	207.90	81	---			
	8.1	116	2.2	220.87	77	---			
	7.0	136	2.0	258.22	77	---			
	6.6	142	1.9	274.38	76	---			
	5.1	180	1.5	356.15	73	---			
	5.4	181	1.5	335.21	76	---			

15 hp - 20 hp Right-angle Drives n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
15	7.9	118	3.0	227.29	100	---	**SK 9507 - 254T**	2165	270
	7.2	129	2.8	249.83	98	---			
	6.1	153	2.3	295.57	100	---			
	5.5	172	2.1	324.86	96	---			
	5.0	186	1.9	357.22	94	---			
	4.6	212	1.7	392.65	96	---			
	5.4	173	2.5	332.92	111	---	**SK 10507 - 254T**	2383	276
	4.9	193	2.3	364.58	107	---			
	4.5	206	2.1	402.38	107	---			
	4.1	233	1.9	440.63	105	---			
20	16.0	77	2.3	114.10	75	---	**SK 7507 - 256T**	1301	258
	14.0	88.5	2.2	125.47	72	---			
	12.0	107	2.0	148.13	72	---			
	11.0	112	2.0	162.86	71	---			
	9.9	128	1.6	182.45	74	---			
	9.0	140	1.6	200.62	72	---			
	7.9	165	1.3	226.60	69	---			
	14.0	89.4	2.5	130.05	85	---	**SK 8507 - 256T**	1431	264
	13.0	95.6	2.5	138.15	81	---			
	11.0	114	2.4	168.79	81	---			
	10.0	128	2.1	179.35	79	---			
	8.7	142	1.7	207.90	81	---			
	8.1	160	1.6	220.87	77	---			
	7.0	181	1.5	258.22	77	---			
	6.6	193	1.4	274.38	76	---			
	9.8	131	2.7	182.86	107	---	**SK 9507 - 256T**	2165	270
	9.0	140	2.6	200.99	105	---			
	7.9	160	2.2	227.29	100	---			
	7.2	173	2.1	249.83	98	---			
	6.1	208	1.7	295.57	100	---			
	5.5	226	1.6	324.86	96	---			
	5.0	252	1.4	357.22	94	---			
	4.6	276	1.3	392.65	96	---			
	8.7	144	2.8	205.98	119	---	**SK 10507 - 256T**	2383	276
	8.0	158	2.8	225.57	114	---			
	7.0	181	2.4	256.05	114	---			
	6.4	195	2.3	280.39	111	---			
	5.4	227	1.9	332.92	111	---			
	4.9	261	1.7	364.58	107	---			
	4.5	289	1.5	402.38	107	---			
	4.1	316	1.4	440.63	105	---			

20 hp - 25 hp
Right-angle Drives
n_1 = 1800 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
20	6.2	203	2.8	289.22	122	---	**SK 11507 - 256T**	3384	282
	5.7	219	2.7	316.62	117	---			
	4.9	259	2.4	370.12	115	---			
	4.4	283	2.4	405.18	113	---			
25	19.0	82.3	2.5	94.30	90	---	**SK 7407 - 284T**	1301	258
	17.0	92.9	2.4	103.66	88	---			
	16.0	99.1	1.8	114.10	75	---	**SK 7507 - 284T**	1301	258
	14.0	115	1.7	125.47	72	---			
	12.0	134	1.6	148.13	72	---			
	11.0	140	1.6	162.86	71	---			
	17.0	92	2.8	107.43	101	---	**SK 8407 - 284T**	1431	264
	16.0	100	2.7	114.14	96	---			
	14.0	112	2.0	130.05	85	---	**SK 8507 - 284T**	1431	264
	13.0	119	2.0	138.15	81	---			
	11.0	144	1.9	168.79	81	---			
	10.0	158	1.7	179.35	79	---			
	8.7	186	1.3	207.90	81	---			
	8.1	196	1.3	220.87	77	---			
	12.0	131	2.7	151.28	105	---	**SK 9507 - 284T**	2165	270
	11.0	141	2.6	166.30	102	---			
	9.8	160	2.2	182.86	107	---			
	9.0	173	2.1	200.99	105	---			
	7.9	196	1.8	227.29	100	---			
	7.2	213	1.7	249.83	98	---			
	6.1	252	1.4	295.57	100	---			
	11.0	144	3.0	170.43	119	---	**SK 10507 - 284T**	2383	276
	9.6	161	2.8	186.63	116	---			
	8.7	183	2.2	205.98	119	---			
	8.0	201	2.2	225.57	114	---			
	7.0	228	1.9	256.05	114	---			
	6.4	249	1.8	280.39	111	---			
	5.4	289	1.5	332.92	111	---			
	4.9	318	1.4	364.58	107	---			
	6.2	258	2.2	289.22	122	---	**SK 11507 - 284T**	3384	282
	5.7	281	2.1	316.62	117	---			
	4.9	327	1.9	370.12	115	---			
	4.4	358	1.9	405.18	113	---			
	4.9	324	2.6	366.99	150	---	**SK 12507 - 284T**	4839	288
	4.5	353	2.6	400.33	144	---			

30 hp Right-angle Drives $n_1 = 1800$ rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
30	31.0	60.2	3.0	58.09	101	---	**SK 7407 - 286T**	1301	258
	28.0	66.4	3.0	63.90	98	---			
	25.0	75.2	2.6	73.39	98	---			
	22.0	85.9	2.5	80.67	93	---			
	19.0	98.2	2.1	94.30	90	---			
	17.0	112	2.0	103.66	88	---			
	16.0	119	1.5	114.10	75	---	**SK 7507 - 286T**	1301	258
	14.0	140	1.4	125.47	72	---			
	12.0	153	1.4	148.13	72	---			
	11.0	173	1.3	162.86	71	---			
	22.0	86.7	2.8	83.62	110	---	**SK 8407 - 286T**	1431	264
	20.0	96.5	2.7	88.85	104	---			
	17.0	112	2.3	107.43	101	---			
	16.0	118	2.3	114.14	96	---			
	14.0	132	1.7	130.05	85	---	**SK 8507 - 286T**	1431	264
	13.0	149	1.6	138.15	81	---			
	11.0	172	1.6	168.79	81	---			
	10.0	193	1.4	179.35	79	---			
	15.0	127	2.8	116.35	110	---	**SK 9507 - 286T**	2165	270
	14.0	136	2.7	127.88	105	---			
	12.0	160	2.2	151.28	105	---			
	11.0	174	2.1	166.30	102	---			
	9.8	196	1.8	182.86	107	---			
	9.0	214	1.7	200.99	105	---			
	7.9	235	1.5	227.29	100	---			
	7.2	259	1.4	249.83	98	---			
	11.0	173	2.5	170.43	119	---	**SK 10507 - 286T**	2383	276
	9.6	196	2.3	186.63	116	---			
	8.7	212	1.9	205.98	119	---			
	8.0	233	1.9	225.57	114	---			
	7.0	271	1.6	256.05	114	---			
	6.4	298	1.5	280.39	111	---			
	7.9	236	2.6	228.01	127	---	**SK 11507 - 286T**	3384	282
	7.2	259	2.6	249.61	125	---			
	6.2	298	1.9	289.22	122	---			
	5.7	328	1.8	316.62	117	---			
	4.9	389	1.6	370.12	115	---			
	4.4	425	1.6	405.18	113	---			
	6.3	299	2.7	287.82	156	---	**SK 12507 - 286T**	4839	288
	5.7	327	2.7	313.96	150	---			
	4.9	382	2.2	366.99	150	---			
	4.5	418	2.2	400.33	144	---			

40 hp
Right-angle Drives
n_1 = 1800 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
40	31.0	82.3	2.2	58.09	101	---	**SK 7407 - 324T**	1301	258
	28.0	91.2	2.2	63.90	98	---			
	25.0	103	1.9	73.39	98	---			
	22.0	112	1.9	80.67	93	---			
	19.0	129	1.6	94.30	90	---			
	17.0	150	1.5	103.66	88	---			
	27.0	92	2.5	66.23	114	---	**SK 8407 - 324T**	1431	264
	26.0	97.4	2.5	70.36	110	---			
	22.0	116	2.1	83.62	110	---			
	20.0	124	2.1	88.85	104	---			
	17.0	152	1.7	107.43	101	---			
	16.0	158	1.7	114.14	96	---			
	19.0	131	2.7	95.36	131	---	**SK 9407 - 324T**	2165	270
	17.0	149	2.5	104.85	127	---			
	15.0	168	2.1	116.35	110	---	**SK 9507 - 324T**	2165	270
	14.0	184	2.0	127.88	105	---			
	12.0	208	1.7	151.28	105	---			
	11.0	229	1.6	166.30	102	---			
	9.8	252	1.4	182.86	107	---			
	17.0	147	2.7	107.43	148	---	**SK 10407 - 324T**	2383	276
	15.0	166	2.6	117.65	141	---			
	14.0	181	2.4	131.07	124	---	**SK 10507 - 324T**	2383	276
	13.0	197	2.3	143.51	119	---			
	11.0	228	1.9	170.43	119	---			
	9.6	266	1.7	186.63	116	---			
	8.7	289	1.4	205.98	119	---			
	8.0	315	1.4	225.57	114	---			
	11.0	227	2.9	158.47	136	---	**SK 11507 - 324T**	3384	282
	10.0	257	2.3	178.17	130	---			
	9.2	270	2.4	195.05	125	---			
	7.9	324	1.9	228.01	127	---			
	7.2	355	1.9	249.61	125	---			
	6.2	404	1.4	289.22	122	---			
	5.7	454	1.3	316.62	117	---			
	8.0	320	2.6	226.08	166	---	**SK 12507 - 324T**	4839	288
	7.3	350	2.6	246.62	159	---			
	6.3	404	2.0	287.82	156	---			
	5.7	441	2.0	313.96	150	---			
	4.9	526	1.6	366.99	150	---			
	4.5	574	1.6	400.33	144	---			

40 hp - 50 hp Right-angle Drives n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
40	6.3	400	2.7	284.85	198	---	**SK 13507 - 324T**	7033	294
	5.8	436	2.7	310.73	198	---			
	4.9	512	2.3	367.77	187	---			
	4.5	558	2.3	401.17	180	---			
50	50.0	62.8	2.9	35.97	101	---	**SK 7407 - 326T**	1301	258
	45.0	69	2.9	39.57	98	---			
	40.0	77.9	2.5	45.45	98	---			
	36.0	89.4	2.4	49.96	93	---			
	31.0	101	1.8	58.09	101	---			
	28.0	112	1.8	63.90	98	---			
	25.0	130	1.5	73.39	98	---			
	22.0	142	1.5	80.67	93	---			
	35.0	90.3	2.7	51.78	110	---	**SK 8407 - 326T**	1431	264
	33.0	96.5	2.7	55.02	104	---			
	27.0	115	2.0	66.23	114	---			
	26.0	122	2.0	70.36	110	---			
	22.0	143	1.7	83.62	110	---			
	20.0	162	1.6	88.85	104	---			
	17.0	185	1.4	107.43	101	---			
	16.0	193	1.4	114.14	96	---			
	28.0	114	2.9	64.60	143	---	**SK 9407 - 326T**	2165	270
	24.0	132	2.5	74.21	143	---			
	22.0	141	2.5	81.57	135	---			
	19.0	168	2.1	95.36	131	---			
	17.0	186	2.0	104.85	127	---			
	15.0	208	1.7	116.35	110	---	**SK 9507 - 326T**	2165	270
	14.0	230	1.6	127.88	105	---			
	12.0	272	1.3	151.28	105	---			
	25.0	127	3.0	72.49	162	---	**SK 10407 - 326T**	2383	276
	22.0	141	2.7	83.62	162	---			
	20.0	156	2.6	91.55	153	---			
	17.0	189	2.1	107.43	148	---			
	15.0	215	2.0	117.65	141	---			
	14.0	228	1.9	131.07	124	---	**SK 10507 - 326T**	2383	276
	13.0	239	1.9	143.51	119	---			
	11.0	289	1.5	170.43	119	---			
	9.6	322	1.4	186.63	116	---			

50 hp - 60 hp
Right-angle Drives
n_1 = 1800 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
50	16.0	196	3.0	113.11	142	---	SK 11507 - 326T	3384	282
	15.0	213	3.0	123.83	136	---			
	12.0	266	2.3	144.75	136	---			
	11.0	286	2.3	158.47	136	---			
	10.0	312	1.9	178.17	130	---			
	9.2	341	1.9	195.05	125	---			
	7.9	410	1.5	228.01	127	---			
	7.2	449	1.5	249.61	125	---			
	10.0	310	2.6	177.31	178	---	SK 12507 - 326T	4839	288
	9.3	338	2.6	193.41	166	---			
	8.0	397	2.1	226.08	166	---			
	7.3	434	2.1	246.62	159	---			
	6.3	504	1.6	287.82	156	---			
	5.7	551	1.6	313.96	150	---			
	4.9	648	1.3	366.99	150	---			
	4.5	706	1.3	400.33	144	---			
	7.8	402	2.9	229.66	207	---	SK 13507 - 326T	7033	294
	7.2	439	2.9	250.52	198	---			
	6.3	491	2.2	284.85	198	---			
	5.8	535	2.2	310.73	198	---			
	4.9	654	1.8	367.77	187	---			
	4.5	713	1.8	401.17	180	---			
60	63.0	61.1	2.8	28.53	108	---	SK 7407 - 364T	1301	258
	57.0	67.3	2.8	31.36	101	---			
	50.0	75.2	2.4	35.97	101	---			
	45.0	83.2	2.4	39.57	98	---			
	40.0	92.9	2.1	45.45	98	---			
	36.0	107	2.0	49.96	93	---			
	31.0	121	1.5	58.09	101	---			
	28.0	134	1.5	63.90	98	---			
	44.0	85	2.7	41.01	114	---	SK 8407 - 364T	1431	264
	41.0	93.8	2.6	43.57	110	---			
	35.0	106	2.3	51.78	110	---			
	33.0	112	2.3	55.02	104	---			
	26.0	143	1.7	70.36	110	---			
	27.0	143	1.6	66.23	114	---			
	22.0	173	1.4	83.62	110	---			
	20.0	185	1.4	88.85	104	---			
	31.0	124	2.5	58.79	147	---	SK 9407 - 364T	2165	270
	28.0	137	2.4	64.60	143	---			
	24.0	158	2.1	74.21	143	---			
	22.0	176	2.0	81.57	135	---			
	19.0	196	1.8	95.36	131	---			
	17.0	218	1.7	104.85	127	---			

60 hp - 75 hp
Right-angle Drives
n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
60	15.0	252	1.4	116.35	110	---	**SK 9507 - 364T**	2165	270
	14.0	263	1.4	127.88	105	---			
	27.0	137	2.6	66.23	167	---	**SK 10407 - 364T**	2383	276
	25.0	151	2.5	72.49	162	---			
	22.0	173	2.2	83.62	162	---			
	20.0	193	2.1	91.55	153	---			
	17.0	220	1.8	107.43	148	---			
	15.0	252	1.7	117.65	141	---			
	14.0	271	1.6	131.07	124	---	**SK 10507 - 364T**	2383	276
	13.0	284	1.6	143.51	119	---			
	16.0	235	2.5	113.11	142	---	**SK 11507 - 364T**	3384	282
	15.0	257	2.5	123.83	136	---			
	12.0	321	1.9	144.75	136	---			
	11.0	347	1.9	158.47	136	---			
	10.0	370	1.6	178.17	130	---			
	9.2	404	1.6	195.05	125	---			
	13.0	295	2.8	143.87	182	---	**SK 12507 - 364T**	4839	288
	11.0	347	2.6	156.94	174	---			
	10.0	383	2.1	177.31	178	---			
	9.3	399	2.2	193.41	166	---			
	8.0	463	1.8	226.08	166	---			
	7.3	505	1.8	246.62	159	---			
	6.3	621	1.3	287.82	156	---			
	5.7	677	1.3	313.96	150	---			
	7.8	486	2.4	229.66	207	---	**SK 13507 - 364T**	7033	294
	7.2	530	2.4	250.52	198	---			
	6.3	600	1.8	284.85	198	---			
	5.8	654	1.8	310.73	198	---			
	4.9	785	1.5	367.77	187	---			
	4.5	856	1.5	401.17	180	---			
	5.0	745	2.7	362.35	272	---	**SK 15507 - 364T**	10902	300
	4.6	813	2.7	395.26	256	---			
75	63.0	74.3	2.3	28.53	108	---	**SK 7407 - 365T**	1301	258
	57.0	81.4	2.3	31.36	101	---			
	50.0	95.6	1.9	35.97	101	---			
	45.0	105	1.9	39.57	98	---			
	40.0	122	1.6	45.45	98	---			
	36.0	134	1.6	49.96	93	---			

75 hp
Right-angle Drives
n_1 = 1800 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
75	55.0	86.7	2.5	32.50	121	---	SK 8407 - 365T	1431	264
	52.0	92	2.5	34.53	114	---			
	44.0	109	2.1	41.01	114	---			
	41.0	116	2.1	43.57	110	---			
	35.0	135	1.8	51.78	110	---			
	33.0	144	1.8	55.02	104	---			
	27.0	176	1.3	66.23	114	---			
	26.0	188	1.3	70.36	110	---			
	39.0	122	2.7	45.95	143	---	SK 9407 - 365T	2165	270
	36.0	130	2.7	50.51	135	---			
	31.0	155	2.0	58.79	147	---			
	28.0	166	2.0	64.60	143	---			
	24.0	194	1.7	74.21	143	---			
	22.0	220	1.6	81.57	135	---			
	19.0	252	1.4	95.36	131	---			
	17.0	285	1.3	104.85	127	---			
	35.0	136	2.8	51.78	162	---	SK 10407 - 365T	2383	276
	32.0	150	2.7	56.70	153	---			
	27.0	179	2.0	66.23	167	---			
	25.0	189	2.0	72.49	162	---			
	22.0	212	1.8	83.62	162	---			
	20.0	238	1.7	91.55	153	---			
	17.0	283	1.4	107.43	148	---			
	15.0	306	1.4	117.65	141	---			
	23.0	207	2.8	79.13	150	---	SK 11507 - 365T	3384	282
	19.0	253	2.4	92.50	146	---			
	18.0	266	2.5	101.26	139	---			
	16.0	294	2.0	113.11	142	---			
	15.0	320	2.0	123.83	136	---			
	12.0	406	1.5	144.75	136	---			
	11.0	439	1.5	158.47	136	---			
	16.0	297	2.7	112.83	191	---	SK 12507 - 365T	4839	288
	15.0	311	2.8	123.08	182	---			
	13.0	359	2.3	143.87	182	---			
	11.0	429	2.1	156.94	174	---			
	10.0	474	1.7	177.31	178	---			
	9.3	517	1.7	193.41	166	---			
	8.0	596	1.4	226.08	166	---			
	7.3	650	1.4	246.62	159	---			
	10.0	468	2.4	177.88	216	---	SK 13507 - 365T	7033	294
	9.3	511	2.4	194.04	212	---			
	7.8	614	1.9	229.66	207	---			
	7.2	670	1.9	250.52	198	---			
	6.3	771	1.4	284.85	198	---			
	5.8	841	1.4	310.73	198	---			

75 hp - 100 hp Right-angle Drives n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
75	6.3	759	2.5	283.98	272	---	**SK 15507 - 365T**	10902	300
	5.8	828	2.5	309.77	267	---			
	5.0	959	2.1	362.35	272	---			
	4.6	1050	2.1	395.26	256	---			
100	103.0	61.1	2.8	17.52	108	---	**SK 7407 - 404/5T**	1301	258
	93.0	67.3	2.8	19.26	101	---			
	81.0	78.8	2.3	22.09	101	---			
	74.0	86.7	2.3	24.30	98	A/Fan*			
	63.0	101	1.7	28.53	108	---			
	57.0	111	1.7	31.36	101	---			
	50.0	129	1.4	35.97	101	---			
	45.0	142	1.4	39.57	98	A/Fan*			
	71.0	88.5	2.6	25.18	114	---	**SK 8407 - 404/5T**	1431	264
	67.0	93.8	2.6	26.76	110	---			
	55.0	113	1.9	32.50	121	---			
	52.0	120	1.9	34.53	114	---			
	44.0	143	1.6	41.01	114	---			
	41.0	153	1.6	43.57	110	---			
	35.0	173	1.4	51.78	110	---			
	33.0	185	1.4	55.02	104	---			
	62.0	100	2.9	28.85	157	---	**SK 9407 - 404/5T**	2165	270
	57.0	111	2.8	31.72	147	---			
	49.0	129	2.4	36.40	147	---			
	45.0	137	2.4	40.00	143	---			
	39.0	166	2.0	45.95	143	---			
	36.0	176	2.0	50.51	135	---			
	31.0	206	1.5	58.79	147	---			
	28.0	220	1.5	64.60	143	---			
	55.0	115	2.9	32.50	178	---	**SK 10407 - 404/5T**	2383	276
	51.0	122	2.9	35.59	167	---			
	44.0	143	2.5	41.01	167	---			
	40.0	158	2.4	44.89	162	---			
	35.0	181	2.1	51.78	162	---			
	32.0	193	2.1	56.70	153	---			
	27.0	238	1.5	66.23	167	---			
	25.0	252	1.5	72.49	162	---			
	35.0	181	2.8	51.25	181	---	**SK 11407 - 404/5T**	3219	282
	32.0	196	2.8	56.11	176	---			
	27.0	234	2.5	65.59	176	---			
	25.0	248	2.6	71.80	166	---			

100 hp - 125 hp
Right-angle Drives
n_1 = 1800 rpm

NORD DRIVESYSTEMS

GEARMOTOR

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
100	23.0	275	2.1	79.13	150	---	**SK 11507 - 404/5T**	3384	282
	19.0	338	1.8	92.50	146	---			
	18.0	349	1.9	101.26	139	---			
	16.0	391	1.5	113.11	142	---			
	15.0	427	1.5	123.83	136	---			
	20.0	317	2.6	91.72	187	---	**SK 12507 - 404/5T**	4839	288
	18.0	345	2.6	100.05	178	---			
	16.0	400	2.0	112.83	191	---			
	15.0	414	2.1	123.08	182	---			
	13.0	486	1.7	143.87	182	---			
	11.0	563	1.6	156.94	174	---			
	16.0	399	2.8	113.14	232	---	**SK 13507 - 404/5T**	7033	294
	15.0	419	2.9	123.42	227	---			
	12.0	526	2.2	146.08	227	---			
	11.0	574	2.2	159.35	216	---			
	10.0	624	1.8	177.88	216	---			
	9.3	681	1.8	194.04	212	---			
	7.8	833	1.4	229.66	207	---			
	7.2	849	1.5	250.52	198	---			
	8.0	797	2.5	226.28	290	---	**SK 15507 - 404/5T**	10902	300
	7.3	870	2.5	246.83	278	---			
	6.3	999	1.9	283.98	272	---			
	5.8	1090	1.9	309.77	267	---			
	5.0	1260	1.6	362.35	272	---			
	4.6	1370	1.6	395.26	256	---			
125	103.0	77.9	2.2	17.52	108	A/Fan*	**SK 7407 - 444/5T**	1301	258
	93.0	85	2.2	19.26	101	A/Fan*			
	81.0	95.6	1.9	22.09	101	A/Fan*			
	74.0	105	1.9	24.30	98	A/Fan*			
	63.0	122	1.4	28.53	108	A/Fan*			
	57.0	134	1.4	31.36	101	A/Fan*			
	90.0	86.7	2.5	19.96	121	A/Fan*	**SK 8407 - 444/5T**	1431	264
	85.0	92	2.5	21.20	114	A/Fan*			
	71.0	109	2.1	25.18	114	A/Fan*			
	67.0	116	2.1	26.76	110	A/Fan*			
	55.0	144	1.5	32.50	121	A/Fan*			
	52.0	153	1.5	34.53	114	A/Fan*			
	62.0	127	2.3	28.85	157	---	**SK 9407 - 444/5T**	2165	270
	57.0	141	2.2	31.72	147	---			
	49.0	163	1.9	36.40	147	---			
	45.0	173	1.9	40.00	143	---			
	39.0	206	1.6	45.95	143	---			
	36.0	220	1.6	50.51	135	---			

125 hp - 150 hp Right-angle Drives n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
125	55.0	145	2.3	32.50	178	---	**SK 10407 - 444/5T**	2383	276
	51.0	154	2.3	35.59	167	---			
	44.0	179	2.0	41.01	167	---			
	40.0	199	1.9	44.89	162	---			
	35.0	224	1.7	51.78	162	---			
	32.0	253	1.6	56.70	153	---			
	35.0	229	2.2	51.25	181	---	**SK 11407 - 444/5T**	3219	282
	32.0	250	2.2	56.11	176	---			
	27.0	292	2.0	65.59	176	---			
	25.0	322	2.0	71.80	166	---			
	23.0	341	1.7	79.13	150	---	**SK 11507 - 444/5T**	3384	282
	19.0	405	1.5	92.50	146	---			
	18.0	442	1.5	101.26	139	---			
	28.0	278	2.9	65.04	225	---	**SK 12407 - 444/5T**	4817	288
	25.0	311	2.8	70.94	212	---			
	23.0	348	2.5	78.46	191	---	**SK 12507 - 444/5T**	4839	288
	20.0	393	2.1	91.72	187	---			
	18.0	427	2.1	100.05	178	---			
	16.0	500	1.6	112.83	191	---			
	15.0	512	1.7	123.08	182	---			
	13.0	589	1.4	143.87	182	---			
	11.0	693	1.3	156.94	174	---			
	20.0	398	2.9	91.91	238	---	**SK 13507 - 444/5T**	7033	294
	18.0	433	2.9	100.26	227	---			
	16.0	486	2.3	113.14	232	---			
	15.0	528	2.3	123.42	227	---			
	12.0	643	1.8	146.08	227	---			
	11.0	701	1.8	159.35	216	---			
	10.0	802	1.4	177.88	216	---			
	9.3	875	1.4	194.04	212	---			
	10.0	797	2.4	177.34	311	---	**SK 15507 - 444/5T**	10902	300
	9.3	834	2.5	193.45	297	---			
	8.0	997	2.0	226.28	290	---			
	7.3	1090	2.0	246.83	278	---			
	6.3	1270	1.5	283.98	272	---			
	5.8	1380	1.5	309.77	267	---			
150	103.0	90.3	1.9	17.52	108	A/Fan*	**SK 7407 - 444/5T**	1301	258
	93.0	104	1.8	19.26	101	A/Fan*			
	81.0	113	1.6	22.09	101	A/Fan*			
	74.0	125	1.6	24.30	98	A/Fan*			

150 hp
Right-angle Drives
n_1 = 1800 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
150	90.0	103	2.1	19.96	121	A/Fan*	**SK 8407 - 444/5T**	1431	264
	85.0	109	2.1	21.20	114	A/Fan*			
	71.0	135	1.7	25.18	114	A/Fan*			
	67.0	143	1.7	26.76	110	A/Fan*			
	81.0	115	2.7	22.35	147	A/Fan*	**SK 9407 - 444/5T**	2165	270
	73.0	132	2.5	24.56	143	A/Fan*			
	62.0	153	1.9	28.85	157	---			
	57.0	163	1.9	31.72	147	A/Fan*			
	49.0	194	1.6	36.40	147	A/Fan*			
	45.0	206	1.6	40.00	143	A/Fan*			
	39.0	235	1.4	45.95	143	A/Fan*			
	36.0	271	1.3	50.51	135	A/Fan*			
	71.0	133	2.7	25.18	167	---	**SK 10407 - 444/5T**	2383	276
	65.0	146	2.6	27.56	162	---			
	55.0	176	1.9	32.50	178	---			
	51.0	187	1.9	35.59	167	---			
	44.0	211	1.7	41.01	167	---			
	40.0	237	1.6	44.89	162	---			
	35.0	272	1.4	51.78	162	---			
	32.0	289	1.4	56.70	153	---			
	45.0	209	2.8	40.26	176	---	**SK 11407 - 444/5T**	3219	282
	41.0	229	2.8	44.08	166	---			
	35.0	266	1.9	51.25	181	---			
	32.0	289	1.9	56.11	176	---			
	27.0	343	1.7	65.59	176	---			
	25.0	379	1.7	71.80	166	---			
	23.0	413	1.4	79.13	150	---	**SK 11507 - 444/5T**	3384	282
	35.0	268	2.9	51.01	247	---	**SK 12407 - 444/5T**	4817	288
	32.0	290	2.9	55.64	232	---			
	28.0	335	2.4	65.04	225	---			
	25.0	378	2.3	70.94	212	---			
	23.0	414	2.1	78.46	191	---	**SK 12507 - 444/5T**	4839	288
	20.0	485	1.7	91.72	187	---			
	18.0	528	1.7	100.05	178	---			
	16.0	572	1.4	112.83	191	---			
	15.0	621	1.4	123.08	182	---			
	23.0	405	2.7	77.66	244	---	**SK 13507 - 444/5T**	7033	294
	20.0	481	2.4	91.91	238	---			
	18.0	522	2.4	100.26	227	---			
	16.0	588	1.9	113.14	232	---			
	15.0	639	1.9	123.42	227	---			
	12.0	771	1.5	146.08	227	---			
	11.0	841	1.5	159.35	216	---			

150 hp - 200 hp
Right-angle Drives
n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
150	13.0	732	2.7	142.47	319	---	**SK 15507 - 444/5T**	10902	300
	12.0	798	2.7	155.41	304	---			
	10.0	956	2.0	177.34	311	---			
	9.3	993	2.1	193.45	297	---			
	8.0	1170	1.7	226.28	290	---			
	7.3	1280	1.7	246.83	278	---			
200	103.0	122	1.4	17.52	108	A/Fan*	**SK 7407 - 447/9T**	1301	258
	93.0	134	1.4	19.26	101	A/Fan*			
	90.0	144	1.5	19.96	121	A/Fan*	**SK 8407 - 447/9T**	1431	264
	85.0	153	1.5	21.20	114	A/Fan*			
	67.0	188	1.3	26.76	110	A/Fan*			
	102.0	127	2.3	17.72	157	A/Fan*	**SK 9407 - 447/9T**	2165	270
	92.0	135	2.3	19.48	147	A/Fan*			
	81.0	155	2.0	22.35	147	A/Fan*			
	73.0	173	1.9	24.56	143	A/Fan*			
	62.0	207	1.4	28.85	157	A/Fan*			
	57.0	220	1.4	31.72	147	A/Fan*			
	90.0	140	2.4	19.96	178	A/Fan*	**SK 10407 - 447/9T**	2383	276
	82.0	154	2.3	21.86	167	A/Fan*			
	71.0	179	2.0	25.18	167	A/Fan*			
	65.0	189	2.0	27.56	162	A/Fan*			
	55.0	223	1.5	32.50	178	A/Fan*			
	51.0	253	1.4	35.59	167	A/Fan*			
	57.0	223	2.5	31.46	181	A/Fan*	**SK 11407 - 447/9T**	3219	282
	52.0	245	2.3	34.45	176	A/Fan*			
	45.0	278	2.1	40.26	176	A/Fan*			
	41.0	306	2.1	44.08	166	A/Fan*			
	35.0	360	1.4	51.25	181	A/Fan*			
	32.0	392	1.4	56.11	176	A/Fan*			
	45.0	278	2.9	39.92	225	---	**SK 12407 - 447/9T**	4817	288
	41.0	311	2.8	43.55	212	---			
	35.0	354	2.2	51.01	247	---			
	32.0	401	2.1	55.64	232	---			
	28.0	448	1.8	65.04	225	---			
	25.0	512	1.7	70.94	212	---			
	23.0	543	1.6	78.46	191	A/Fan*	**SK 12507 - 447/9T**	4839	288
	28.0	446	2.5	65.17	289	---	**SK 13407 - 447/9T**	6548	294
	25.0	506	2.4	71.09	272	---			

200 hp - 250 hp
Right-angle Drives
n_1 = 1800 rpm

NORD DRIVESYSTEMS

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
200	23.0	547	2.0	77.66	244	---	**SK 13507 - 447/9T**	7033	294
	20.0	641	1.8	91.91	238	---			
	18.0	697	1.8	100.26	227	---			
	16.0	797	1.4	113.14	232	---			
	15.0	867	1.4	123.42	227	---			
	16.0	792	2.4	111.66	344	---	**SK 15507 - 447/9T**	10902	300
	15.0	827	2.5	121.80	327	---			
	13.0	989	2.0	142.47	319	---			
	12.0	1030	2.1	155.41	304	---			
	10.0	1270	1.5	177.34	311	---			
	9.3	1390	1.5	193.45	297	---			
250	102.0	153	1.9	17.72	157	A/Fan*	**SK 9407 - 447/9T**	2165	270
	92.0	172	1.8	19.48	147	A/Fan*			
	81.0	194	1.6	22.35	147	A/Fan*			
	73.0	220	1.5	24.56	143	B/Fan*			
	90.0	176	1.9	19.96	178	A/Fan*	**SK 10407 - 447/9T**	2383	276
	82.0	197	1.8	21.86	167	A/Fan*			
	71.0	224	1.6	25.18	167	A/Fan*			
	65.0	237	1.6	27.56	162	A/Fan*			
	88.0	178	2.8	20.35	181	A/Fan*	**SK 11407 - 447/9T**	3219	282
	81.0	195	2.8	22.27	176	A/Fan*			
	69.0	227	2.5	26.04	176	A/Fan*			
	63.0	248	2.6	28.50	166	A/Fan*			
	57.0	279	2.0	31.46	181	A/Fan*			
	52.0	297	1.9	34.45	176	A/Fan*			
	45.0	343	1.7	40.26	176	A/Fan*			
	41.0	378	1.7	44.08	166	A/Fan*			
	57.0	272	2.8	31.31	247	A/Fan	**SK 12407 - 447/9T**	4817	288
	53.0	294	2.8	34.16	232	A/Fan			
	45.0	350	2.3	39.92	225	A/Fan			
	41.0	378	2.3	43.55	212	A/Fan			
	35.0	458	1.7	51.01	247	A/Fan			
	32.0	496	1.7	55.64	232	A/Fan			
	28.0	575	1.4	65.04	225	A/Fan			
	25.0	620	1.4	70.94	212	A/Fan			
	36.0	433	2.5	50.48	298	---	**SK 13407 - 447/9T**	6548	294
	33.0	471	2.5	55.07	289	---			
	28.0	558	2.0	65.17	289	---			
	25.0	640	1.9	71.09	272	---			
	23.0	684	1.6	77.66	244	A/Fan*	**SK 13507 - 447/9T**	7033	294
	20.0	769	1.5	91.91	238	A/Fan*			
	18.0	896	1.4	100.26	227	A/Fan*			

250 hp - 300 hp Right-angle Drives n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
250	23.0	679	2.7	77.42	363	---	**SK 15507 - 447/9T**	10902	300
	20.0	789	2.5	90.56	344	---			
	18.0	894	2.4	98.78	327	---			
	16.0	1000	1.9	111.66	344	---			
	15.0	1030	2.0	121.80	327	---			
	13.0	1240	1.6	142.47	319	---			
	12.0	1350	1.6	155.41	304	---			
300	102.0	181	1.6	17.72	157	B/Fan*	**SK 9407 - 447/9T**	2165	270
	92.0	206	1.5	19.48	147	B/Fan*			
	81.0	238	1.3	22.35	147	B/Fan*			
	90.0	209	1.6	19.96	178	B/Fan*	**SK 10407 - 447/9T**	2383	276
	82.0	236	1.5	21.86	167	B/Fan*			
	71.0	275	1.3	25.18	167	B/Fan*			
	65.0	291	1.3	27.56	162	B/Fan*			
	110.0	171	3.0	16.34	193	B/Fan*	**SK 11407 - 447/9T**	3219	282
	101.0	189	2.7	17.89	187	B/Fan*			
	88.0	217	2.3	20.35	181	B/Fan*			
	81.0	237	2.3	22.27	176	B/Fan*			
	69.0	271	2.1	26.04	176	B/Fan*			
	63.0	306	2.1	28.50	166	B/Fan*			
	57.0	328	1.7	31.46	181	B/Fan*			
	52.0	375	1.5	34.45	176	B/Fan*			
	45.0	417	1.4	40.26	176	B/Fan*			
	41.0	459	1.4	44.08	166	B/Fan*			
	70.0	268	3.0	25.82	225	A/Fan*	**SK 12407 - 447/9T**	4817	288
	64.0	300	2.9	28.16	212	A/Fan*			
	57.0	331	2.3	31.31	247	A/Fan*			
	53.0	358	2.3	34.16	232	A/Fan*			
	45.0	424	1.9	39.92	225	A/Fan*			
	41.0	458	1.9	43.55	212	A/Fan*			
	35.0	557	1.4	51.01	247	A/Fan*			
	32.0	602	1.4	55.64	232	A/Fan*			
	45.0	413	2.7	40.01	289	A/Fan	**SK 13407 - 447/9T**	6548	294
	41.0	463	2.6	43.64	272	A/Fan			
	36.0	515	2.1	50.48	298	A/Fan			
	33.0	560	2.1	55.07	289	A/Fan			
	28.0	656	1.7	65.17	289	A/Fan			
	25.0	759	1.6	71.09	272	A/Fan			

300 hp - 350 hp
Right-angle Drives
n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
300	23.0	842	1.3	77.66	244	A/Fan*	**SK 13507 - 447/9T**	7033	294
	36.0	519	2.9	50.33	421	---	**SK 15407 - 447/9T**	10516	300
	33.0	567	2.9	54.90	408	---			
	28.0	682	2.8	64.21	408	---			
	26.0	736	2.8	70.05	384	---			
	23.0	833	2.2	77.42	363	---	**SK 15507 - 447/9T**	10902	300
	20.0	940	2.1	90.56	344	---			
	18.0	1070	2.0	98.78	327	---			
	16.0	1190	1.6	111.66	344	---			
	15.0	1290	1.6	121.80	327	---			
	13.0	1410	1.4	142.47	319	---			
	12.0	1540	1.4	155.41	304	---			
350	102.0	223	1.3	17.72	157	B/Fan*	**SK 9407 - 447/9T**	2165	270
	90.0	239	1.4	19.96	178	B/Fan*	**SK 10407 - 447/9T**	2383	276
	82.0	273	1.3	21.86	167	B/Fan*			
	141.0	154	2.9	12.74	199	B/Fan*	**SK 11407 - 447/9T**	3219	282
	129.0	169	2.9	13.95	193	B/Fan*			
	110.0	197	2.6	16.34	193	B/Fan*			
	101.0	221	2.3	17.89	187	B/Fan*			
	88.0	250	2.0	20.35	181	B/Fan*			
	81.0	273	2.0	22.27	176	B/Fan*			
	69.0	316	1.8	26.04	176	B/Fan*			
	63.0	358	1.8	28.50	166	B/Fan*			
	57.0	398	1.4	31.46	181	B/Fan*			
	52.0	433	1.3	34.45	176	B/Fan*			
	70.0	310	2.6	25.82	225	B/Fan*	**SK 12407 - 447/9T**	4817	288
	64.0	348	2.5	28.16	212	B/Fan*			
	57.0	381	2.0	31.31	247	A/Fan*			
	53.0	412	2.0	34.16	232	B/Fan*			
	45.0	504	1.6	39.92	225	B/Fan*			
	41.0	543	1.6	43.55	212	B/Fan*			
	58.0	380	2.8	30.99	298	A/Fan	**SK 13407 - 447/9T**	6548	294
	53.0	411	2.8	33.80	289	A/Fan			
	45.0	485	2.3	40.01	289	A/Fan			
	41.0	547	2.2	43.64	272	A/Fan			
	36.0	601	1.8	50.48	298	A/Fan			
	33.0	654	1.8	55.07	289	A/Fan			
	28.0	797	1.4	65.17	289	A/Fan			
	25.0	868	1.4	71.09	272	A/Fan			

350 hp - 400 hp
Right-angle Drives
n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
350	36.0	602	2.5	50.33	421	---	**SK 15407 - 447/9T**	10516	300
	33.0	658	2.5	54.90	408	---			
	28.0	797	2.4	64.21	408	---			
	26.0	859	2.4	70.05	384	---			
	23.0	964	1.9	77.42	363	---	**SK 15507 - 447/9T**	10902	300
	20.0	1100	1.8	90.56	344	A/Fan*			
	18.0	1260	1.7	98.78	327	A/Fan*			
	16.0	1360	1.4	111.66	344	A/Fan*			
	15.0	1480	1.4	121.80	327	A/Fan*			
400	141.0	179	2.5	12.74	199	B/Fan*	**SK 11407 - 447/9T**	3219	282
	129.0	196	2.5	13.95	193	B/Fan*			
	110.0	233	2.2	16.34	193	B/Fan*			
	101.0	255	2.0	17.89	187	B/Fan*			
	88.0	294	1.7	20.35	181	B/Fan*			
	81.0	303	1.8	22.27	176	B/Fan*			
	69.0	355	1.6	26.04	176	B/Fan*			
	63.0	402	1.6	28.50	166	B/Fan*			
	89.0	289	2.7	20.25	247	B/Fan*	**SK 12407 - 447/9T**	4817	288
	81.0	312	2.7	22.09	232	B/Fan*			
	70.0	366	2.2	25.82	225	B/Fan*			
	64.0	395	2.2	28.16	212	B/Fan*			
	57.0	448	1.7	31.31	247	B/Fan*			
	53.0	484	1.7	34.16	232	B/Fan*			
	45.0	575	1.4	39.92	225	B/Fan*			
	41.0	620	1.4	43.55	212	B/Fan*			
	58.0	443	2.4	30.99	298	A/Fan*	**SK 13407 - 447/9T**	6548	294
	53.0	480	2.4	33.80	289	B/Fan*			
	45.0	558	2.0	40.01	289	B/Fan*			
	41.0	602	2.0	43.64	272	B/Fan*			
	36.0	721	1.5	50.48	298	A/Fan*			
	33.0	785	1.5	55.07	289	B/Fan*			
	36.0	717	2.1	50.33	421	---	**SK 15407 - 447/9T**	10516	300
	33.0	748	2.2	54.90	408	---			
	28.0	911	2.1	64.21	408	---			
	26.0	982	2.1	70.05	384	A/Fan*			
	23.0	1080	1.7	77.42	363	A/Fan*	**SK 15507 - 447/9T**	10902	300
	20.0	1230	1.6	90.56	344	A/Fan*			
	18.0	1430	1.5	98.78	327	A/Fan*			

450 hp - 500 hp
Right-angle Drives
n_1 = 1800 rpm

NORD DRIVESYSTEMS

GEARMOTOR

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
450	141.0	204	2.2	12.74	199	B/Fan*	**SK 11407 - 447/9T**	3219	282
	129.0	223	2.2	13.95	193	C/Fan*			
	110.0	257	2.0	16.34	193	C/Fan*			
	101.0	282	1.8	17.89	187	C/Fan*			
	88.0	333	1.5	20.35	181	C/Fan*			
	81.0	341	1.6	22.27	176	C/Fan*			
	69.0	406	1.4	26.04	176	C/Fan*			
	63.0	459	1.4	28.50	166	C/Fan*			
	110.0	257	2.9	16.33	247	B/Fan*	**SK 12407 - 447/9T**	4817	288
	101.0	281	2.9	17.81	239	B/Fan*			
	89.0	325	2.4	20.25	247	B/Fan*			
	81.0	351	2.4	22.09	232	B/Fan*			
	70.0	403	2.0	25.82	225	B/Fan*			
	64.0	435	2.0	28.16	212	B/Fan*			
	57.0	507	1.5	31.31	247	B/Fan*			
	53.0	549	1.5	34.16	232	B/Fan*			
	70.0	399	2.8	25.87	289	B/Fan*	**SK 13407 - 447/9T**	6548	294
	64.0	451	2.7	28.22	272	B/Fan*			
	58.0	482	2.2	30.99	298	B/Fan*			
	53.0	523	2.2	33.80	289	B/Fan*			
	45.0	620	1.8	40.01	289	B/Fan*			
	41.0	708	1.7	43.64	272	B/Fan*			
	36.0	774	1.4	50.48	298	B/Fan*			
	33.0	841	1.4	55.07	289	B/Fan*			
	36.0	792	1.9	50.33	421	A/Fan*	**SK 15407 - 447/9T**	10516	300
	33.0	866	1.9	54.90	408	A/Fan*			
	28.0	1010	1.9	64.21	408	A/Fan*			
	26.0	1090	1.9	70.05	384	A/Fan*			
	23.0	1220	1.5	77.42	363	B/Fan*	**SK 15507 - 447/9T**	10902	300
	20.0	1410	1.4	90.56	344	B/Fan*			
	18.0	1530	1.4	98.78	327	B/Fan*			
500	141.0	224	2.0	12.74	199	C/Fan*	**SK 11407 - 585/6**	3219	282
	129.0	245	2.0	13.95	193	C/Fan*			
	110.0	285	1.8	16.34	193	C/Fan*			
	101.0	318	1.6	17.89	187	C/Fan*			
	88.0	357	1.4	20.35	181	C/Fan*			
	81.0	389	1.4	22.27	176	C/Fan*			

500 hp - 600 hp Right-angle Drives $n_1 = 1800$ rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
500	141.0	221	3.0	12.81	264	B/Fan*	**SK 12407 - 585/6**	4817	288
	129.0	242	2.9	13.97	247	C/Fan*			
	110.0	286	2.6	16.33	247	C/Fan*			
	101.0	313	2.6	17.81	239	C/Fan*			
	89.0	354	2.2	20.25	247	C/Fan*			
	81.0	383	2.2	22.09	232	C/Fan*			
	70.0	448	1.8	25.82	225	C/Fan*			
	64.0	483	1.8	28.16	212	C/Fan*			
	57.0	543	1.4	31.31	247	C/Fan*			
	53.0	588	1.4	34.16	232	C/Fan*			
	70.0	448	2.5	25.87	289	B/Fan*	**SK 13407 - 585/6**	6548	294
	64.0	487	2.5	28.22	272	B/Fan*			
	58.0	531	2.0	30.99	298	B/Fan*			
	53.0	605	1.9	33.80	289	B/Fan*			
	45.0	697	1.6	40.01	289	B/Fan*			
	41.0	752	1.6	43.64	272	B/Fan*			
	58.0	551	2.7	30.89	421	A/Fan*	**SK 15407 - 585/6**	10516	300
	53.0	597	2.7	33.70	408	A/Fan*			
	46.0	674	2.8	39.42	408	A/Fan*			
	42.0	758	2.7	43.00	384	B/Fan*			
	36.0	885	1.7	50.33	421	A/Fan*			
	33.0	968	1.7	54.90	408	A/Fan*			
	28.0	1120	1.7	64.21	408	A/Fan*			
	26.0	1210	1.7	70.05	384	B/Fan*			
	23.0	1410	1.3	77.42	363	B/Fan*	**SK 15507 - 585/6**	10902	300
600	141.0	264	1.7	12.74	199	D	**SK 11407 - 586/7**	3219	282
	129.0	289	1.7	13.95	193	D			
	110.0	342	1.5	16.34	193	D			
	101.0	364	1.4	17.89	187	D			
	141.0	266	2.5	12.81	264	C/Fan*	**SK 12407 - 586/7**	4817	288
	129.0	292	2.4	13.97	247	C/Fan*			
	110.0	338	2.2	16.33	247	C/Fan*			
	101.0	370	2.2	17.81	239	C/Fan*			
	89.0	433	1.8	20.25	247	C/Fan*			
	81.0	468	1.8	22.09	232	C/Fan*			
	70.0	537	1.5	25.82	225	C/Fan*			
	64.0	580	1.5	28.16	212	D/Fan*			

600 hp - 700 hp
Right-angle Drives
n_1 = 1800 rpm

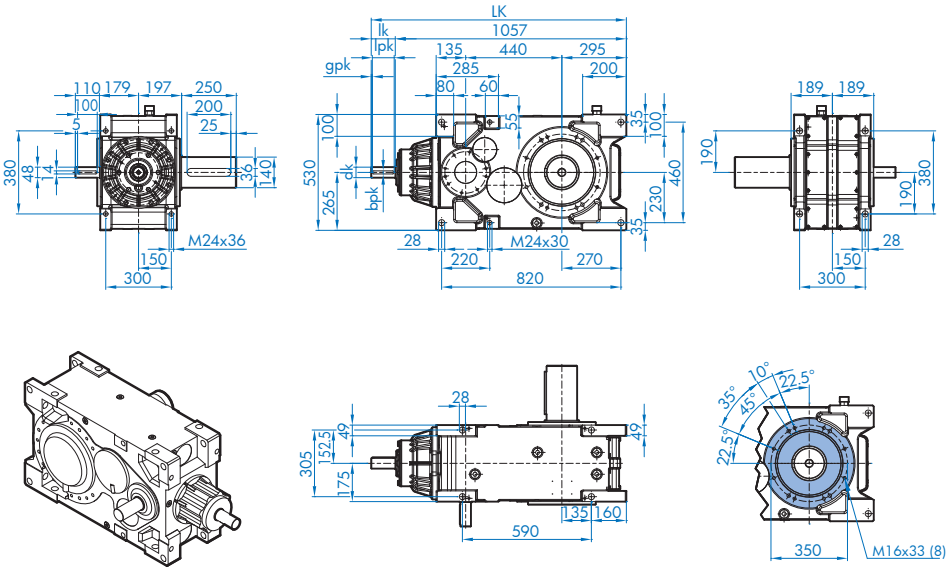
Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
600	103.0	373	2.9	17.45	307	C/Fan*	**SK 13407 - 586/7**	6548	294
	90.0	416	2.6	20.04	298	C/Fan*			
	82.0	460	2.5	21.86	289	C/Fan*			
	70.0	533	2.1	25.87	289	C/Fan*			
	64.0	579	2.1	28.22	272	C/Fan*			
	58.0	664	1.6	30.99	298	C/Fan*			
	53.0	720	1.6	33.80	289	C/Fan*			
	45.0	858	1.3	40.01	289	C/Fan*			
	41.0	926	1.3	43.64	272	C/Fan*			
	58.0	646	2.3	30.89	421	B/Fan*	**SK 15407 - 586/7**	10516	300
	53.0	702	2.3	33.70	408	B/Fan*			
	46.0	820	2.3	39.42	408	B/Fan*			
	42.0	889	2.3	43.00	384	B/Fan*			
	36.0	1070	1.4	50.33	421	B/Fan*			
	33.0	1180	1.4	54.90	408	B/Fan*			
	28.0	1370	1.4	64.21	408	B/Fan*			
	26.0	1470	1.4	70.05	384	B/Fan*			
700	141.0	320	1.4	12.74	199	E	**SK 11407 - 587/8**	3219	282
	129.0	350	1.4	13.95	193	E			
	141.0	316	2.1	12.81	264	D/Fan*	**SK 12407 - 587/8**	4817	288
	129.0	335	2.1	13.97	247	D/Fan*			
	110.0	391	1.9	16.33	247	D/Fan*			
	101.0	428	1.9	17.81	239	D			
	89.0	487	1.6	20.25	247	D/Fan*			
	81.0	562	1.5	22.09	232	E			
	138.0	316	2.8	13.04	328	C/Fan*	**SK 13407 - 587/8**	6548	294
	127.0	354	2.6	14.22	317	D/Fan*			
	113.0	395	2.6	16.00	317	D/Fan*			
	103.0	432	2.5	17.45	307	D/Fan*			
	90.0	492	2.2	20.04	298	D/Fan*			
	82.0	548	2.1	21.86	289	D/Fan*			
	70.0	621	1.8	25.87	289	D/Fan*			
	64.0	675	1.8	28.22	272	D/Fan*			
	58.0	759	1.4	30.99	298	D/Fan*			
	53.0	822	1.4	33.80	289	D/Fan*			
	71.0	629	2.8	25.49	408	C/Fan*	**SK 15407 - 587/8**	10516	300
	65.0	691	2.6	27.81	384	C/Fan*			
	58.0	743	2.0	30.89	421	C/Fan*			
	53.0	849	1.9	33.70	408	C/Fan*			
	46.0	943	2.0	39.42	408	C/Fan*			
	42.0	1080	1.9	43.00	384	C/Fan*			

800 hp - 900 hp
Right-angle Drives
n_1 = 1800 rpm

Input Power P_1 [hp]	Output Speed n_2 [rpm]	Output Torque T_2 [lb-in·1000]	Service Factor f_B	Gear Ratio i_{ges}	Thermal Limit $P_{t0.20}$ [hp]	Cooling System CS page 75 ---	Model Type	Weight [lb]	Dim. Page
800	141.0	350	1.9	12.81	264	E	**SK 12407 - 587/8**	4817	288
	129.0	390	1.8	13.97	247	E			
	110.0	465	1.6	16.33	247	E			
	101.0	509	1.6	17.81	239	E			
	89.0	557	1.4	20.25	247	E			
	81.0	602	1.4	22.09	232	E			
	138.0	369	2.4	13.04	328	E/Fan*	**SK 13407 - 587/8**	6548	294
	127.0	400	2.3	14.22	317	E/Fan*			
	113.0	446	2.3	16.00	317	E/Fan*			
	103.0	491	2.2	17.45	307	E/Fan*			
	90.0	570	1.9	20.04	298	E/Fan*			
	82.0	605	1.9	21.86	289	E/Fan*			
	70.0	699	1.6	25.87	289	E/Fan*			
	64.0	811	1.5	28.22	272	E			
	90.0	567	2.9	19.98	421	D/Fan*	**SK 15407 - 587/8**	10516	300
	83.0	601	2.8	21.79	408	D/Fan*			
	71.0	705	2.5	25.49	408	D/Fan*			
	65.0	782	2.3	27.81	384	D/Fan*			
	58.0	874	1.7	30.89	421	D/Fan*			
	53.0	949	1.7	33.70	408	D/Fan*			
	46.0	1110	1.7	39.42	408	D/Fan*			
	42.0	1200	1.7	43.00	384	D/Fan*			
900	141.0	415	1.6	12.81	264	F	**SK 12407**	4817	288
	129.0	439	1.6	13.97	247	F			
	110.0	531	1.4	16.33	247	F			
	101.0	581	1.4	17.81	239	F			
	138.0	403	2.2	13.04	328	E/Fan*	**SK 13407**	6548	294
	127.0	438	2.1	14.22	317	E/Fan*			
	113.0	513	2.0	16.00	317	E/Fan*			
	103.0	540	2.0	17.45	307	F			
	90.0	636	1.7	20.04	298	F			
	82.0	677	1.7	21.86	289	F			
	70.0	799	1.4	25.87	289	F			
	64.0	868	1.4	28.22	272	F			
	112.0	503	2.8	16.10	450	D/Fan*	**SK 15407**	10516	300
	103.0	543	2.8	17.56	435	E/Fan*			
	90.0	633	2.6	19.98	421	E/Fan*			
	83.0	673	2.5	21.79	408	E/Fan*			
	71.0	801	2.2	25.49	408	E/Fan*			
	65.0	856	2.1	27.81	384	E/Fan*			
	58.0	991	1.5	30.89	421	E/Fan*			
	53.0	1080	1.5	33.70	408	E/Fan*			
	46.0	1260	1.5	39.42	408	E/Fan*			
	42.0	1360	1.5	43.00	384	E/Fan*			

Gearmotors & C-Face Reducers

- SK 7407 / 7507 Dimensions
- SK 8407 / 8507 Dimensions
- SK 9407 / 9507 Dimensions
- SK 10407 / 10507 Dimensions
- SK 11407 / 11507 Dimensions
- SK 12407 / 12507 Dimensions
- SK 13407 / 13507 Dimensions
- SK 15407 / 15507 Dimensions
- Optional Shaft Dimensions
- Accessory Option Dimensions



DRIVESYSTEMS

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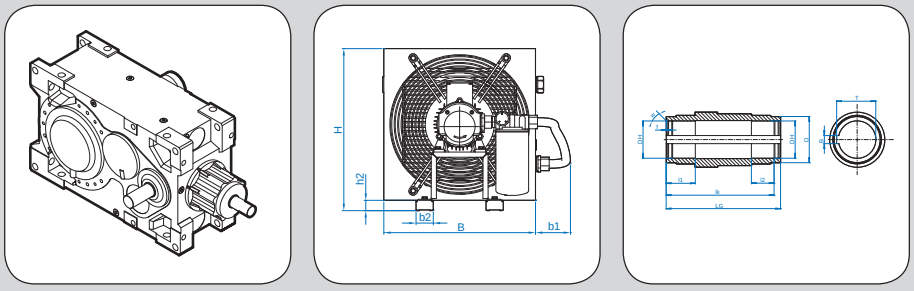
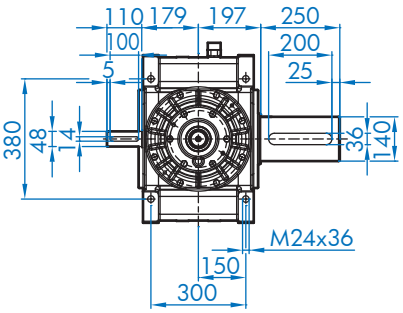
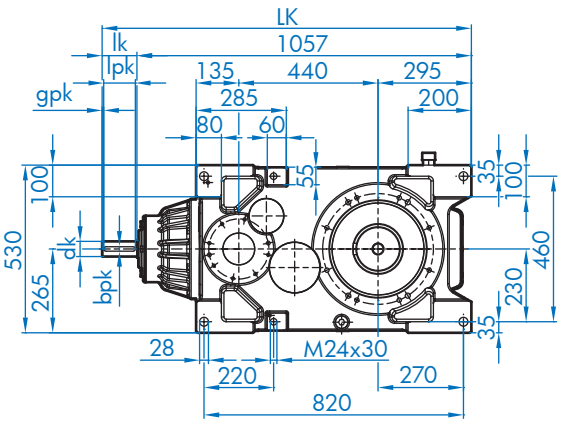


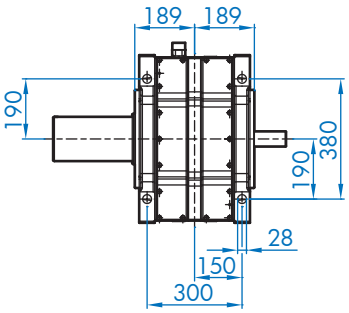
Right-Angle Drives
SK 7407 V
SK 7507 V

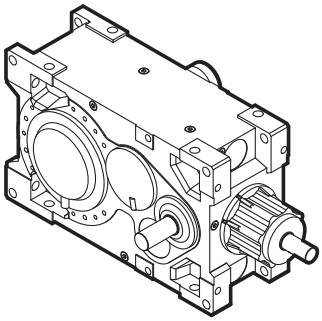
DRIVESYSTEMS

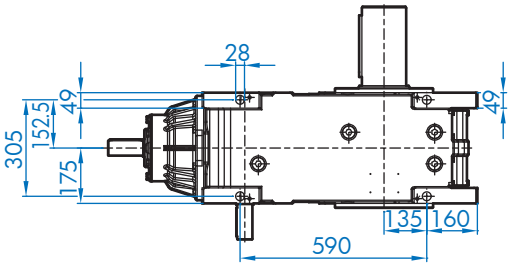
SK 7407/7507 V

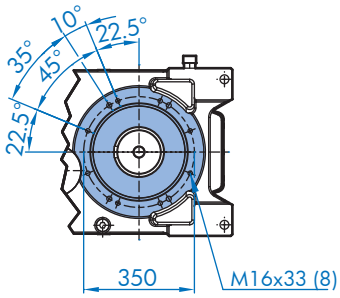




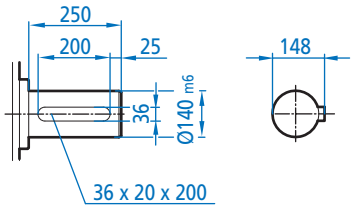




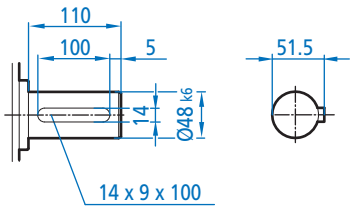




SK 7407/7507 V - Output Shaft Detail

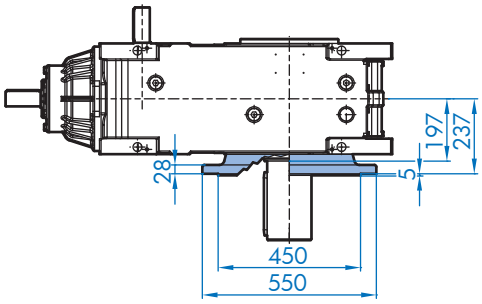


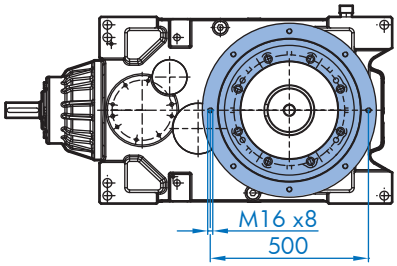
SK 7407/7507 V - Input Shaft Detail



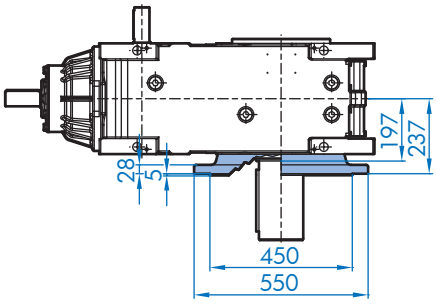
Bevel Input	Ratio	LK	Ødk	lk	lpk	bpk	gpk
SK 7407	18 - 50	1167	48	110	100	14	5
	56 - 100	1137	38	80	70	10	5
SK 7507	112 - 400	1065	28	60	50	8	5

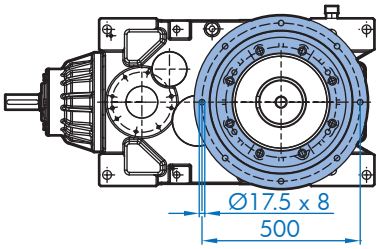
SK 7407/7507 VF



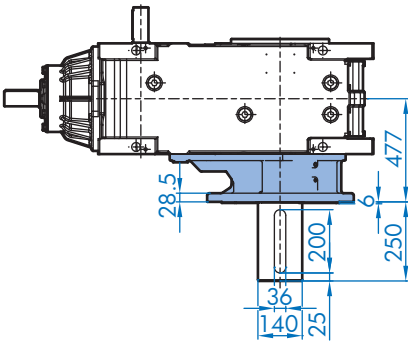


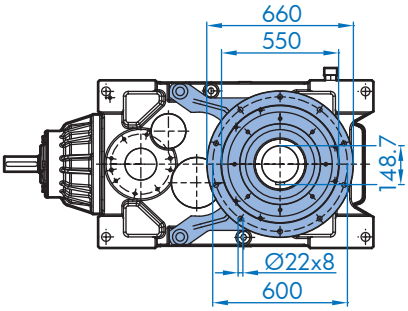
SK 7407/7507 VFK



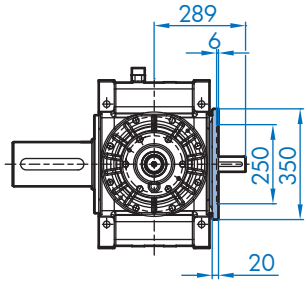


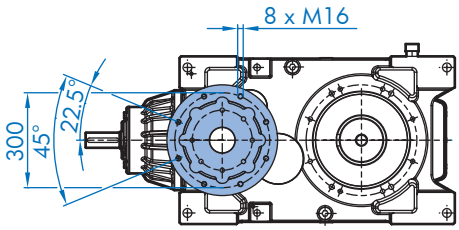
SK 7407/7507 VL2/VL3



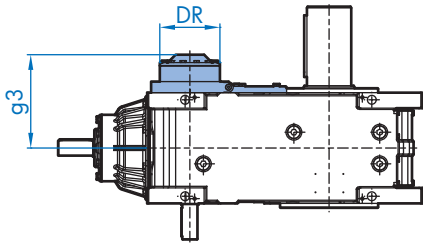


SK 7407/7507 F1 - Input Flange

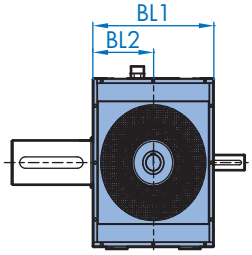


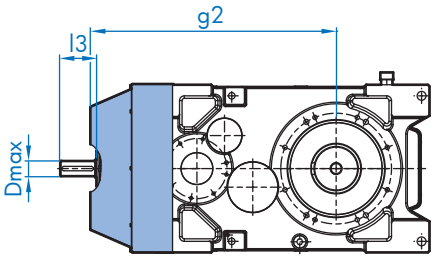


SK 7407/7507 R - Backstop



SK 7407/7507 FAN



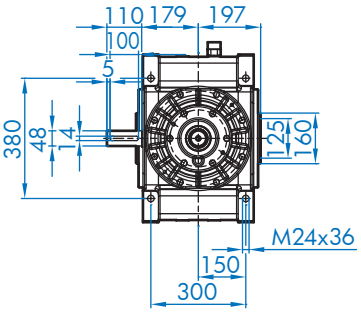


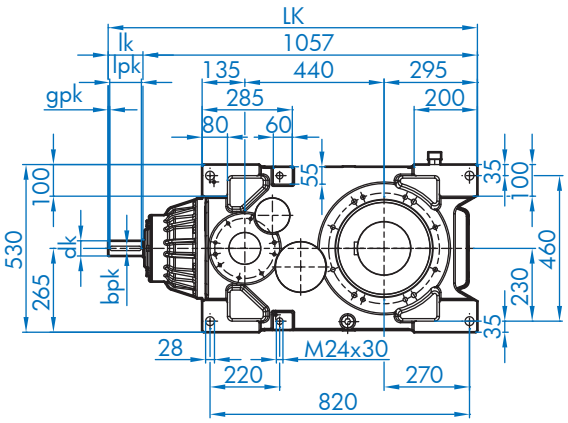
R	iN	DR	g3
SK7407	18-100	190	295
SK7507	112-400	175	288

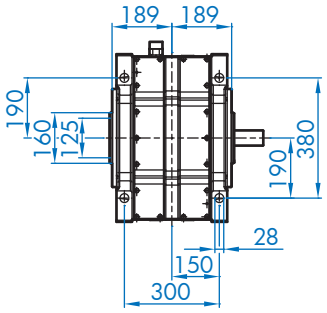
FAN	iN	B1	B2	g2	l3	Dmax
SK7407	18-50	438	219	848.5	74	Ø140
	56-100	438	219	848.5	44	Ø140
SK7507	112-400	438	219	796.5	24	Ø140

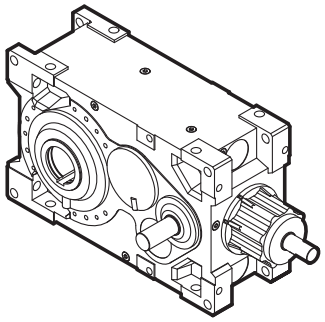
Right-Angle Drives
SK 7407 A
SK 7507 A

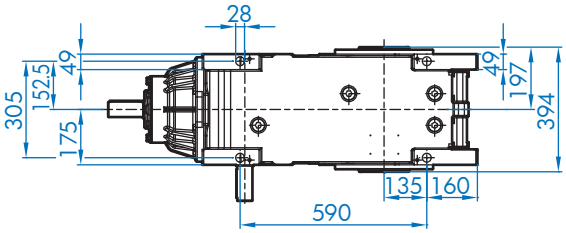
SK 7407/7507 A

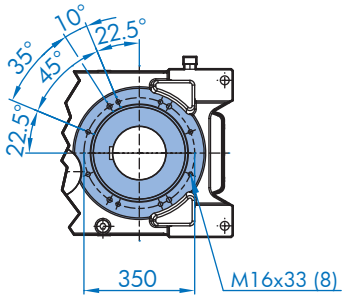




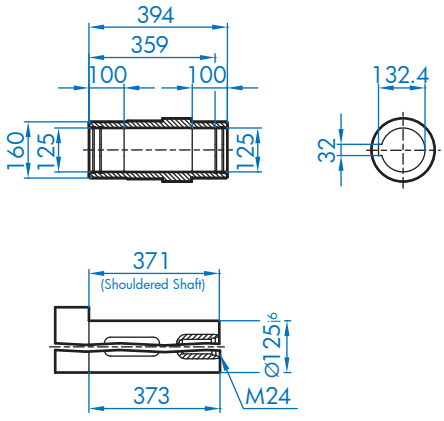






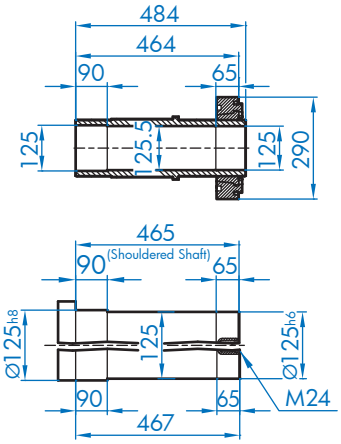


SK 7407/7507 A



customer shaft recommendation

SK 7407/7507 AS

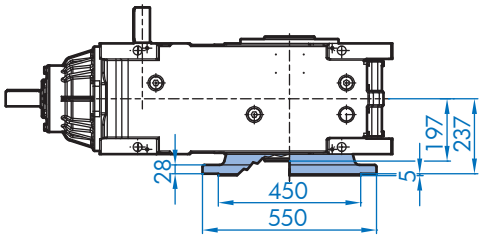


customer shaft recommendation

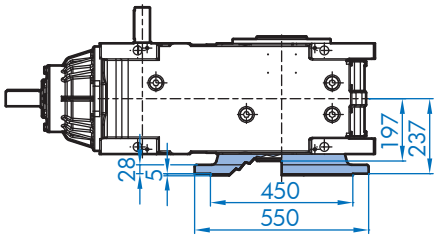
Bevel Input	Ratio	LK	Ødk	lk	lpk	bpk	gpk
SK 7407	18 - 50	1167	48	110	100	14	5
	56 - 100	1137	38	80	70	10	5
SK 7507	112 - 400	1065	28	60	50	8	5

Right-Angle Drives
SK 7407 AF
SK 7507 AF

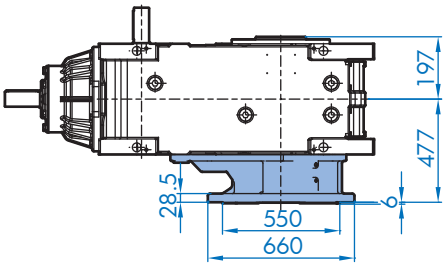
SK 7407/7507 AF

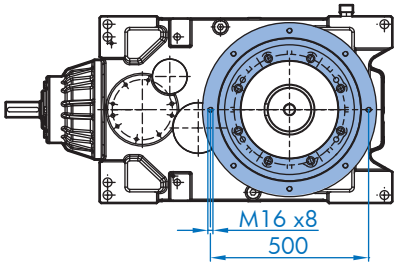


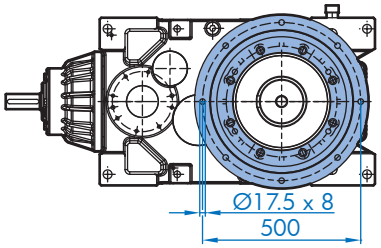
SK 7407/7507 AFK

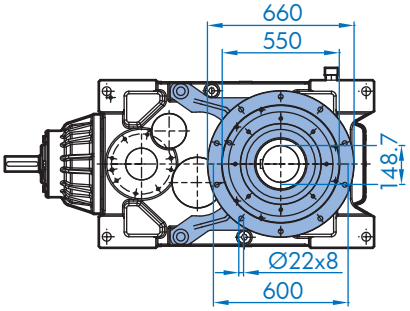


SK 7407/7507 VL2/VL3

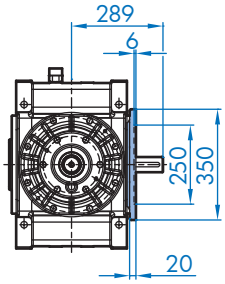


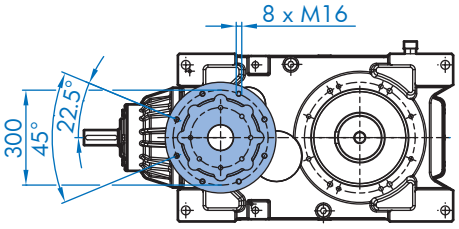




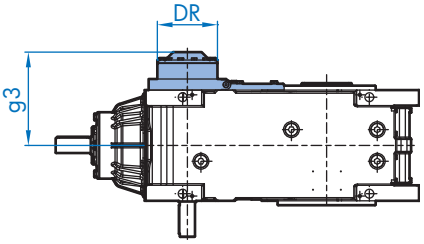


SK 7407/7507 F1 - Input Flange

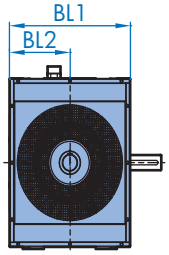


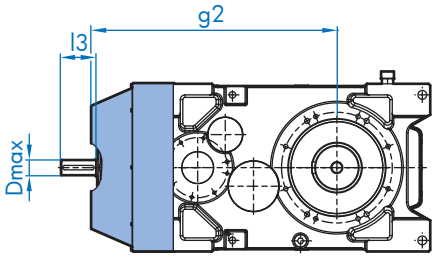


SK 7407/7507 R - Backstop



SK 7407/7507 FAN

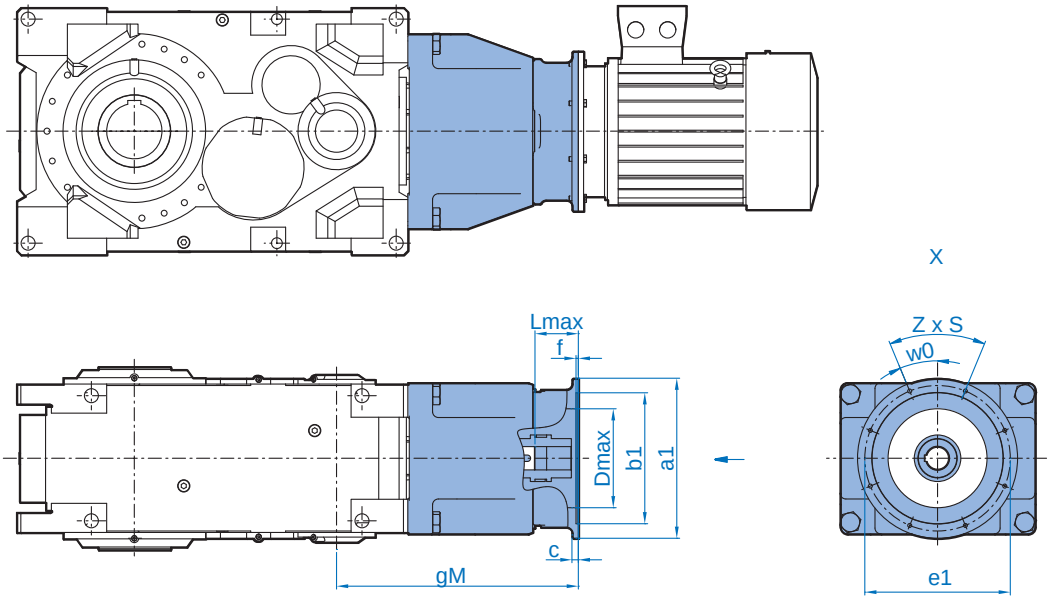




R	iN	DR	g3
SK7407	18-100	190	295
SK7507	112-400	175	288

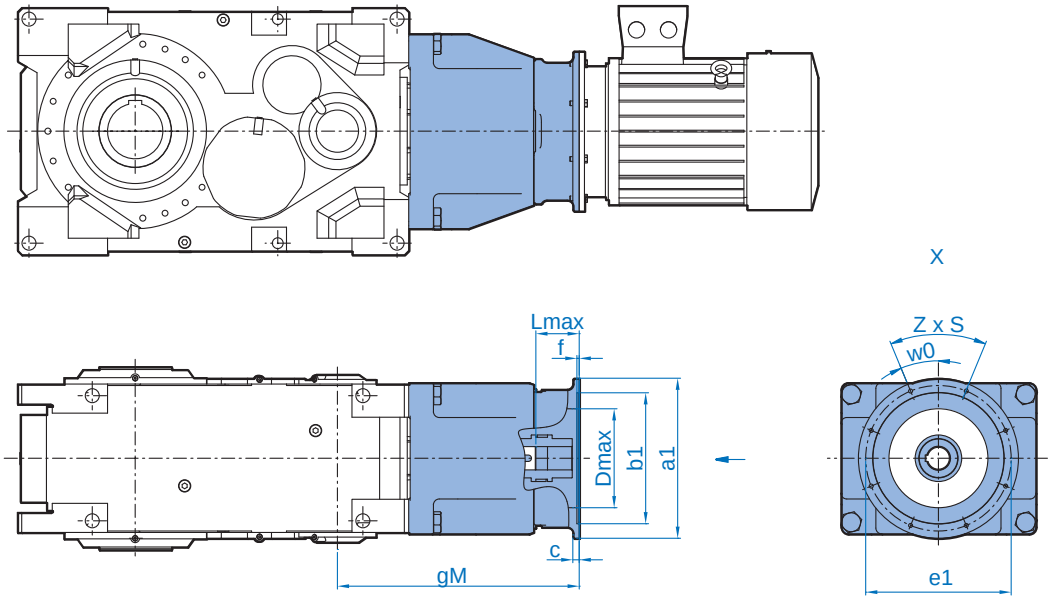
FAN	iN	B1	B2	g2	l3	Dmax
SK7407	18-50	438	219	848.5	74	Ø140
	56-100	438	219	848.5	44	Ø140
SK7507	112-400	438	219	796.5	24	Ø140

SK 7407 - SK 7507



			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 7407	NEMA	254/256 TC	600	350	215.9	184.15	38	4	4 x 1/2-13	45	220	168 / 198
		284/286 TC	600	350	266.7	228.6	38	4	4 x 1/2-13	45	220	168 / 198
		324/326 TC	611	400	317.5	279.4	51	4	4 x 5/8-11	45	265	179 / 209
		364/365 TC	641	450	317.5	279.4	52	4	4 x 5/8-11	45	280	209 / 239
		404/405 TC	655	550	317.5	279.4	70	6	4 x 5/8-11	45	330	223 / 253
		444/445 TC	687	550	406.4	355.6	102	6	4 x 5/8-11	45	330	255 / 285
		447/449 TC	682	660	406.4	355.6	67	6	4 x 5/8-11	45	330	250 / 280
SK 7507	NEMA	254/256 TC	498	350	215.9	184.15	38	4	4 x 1/2-13	45	220	168
		284/286 TC	498	350	266.7	228.6	38	4	4 x 1/2-13	45	220	168
		324/326 TC	509	400	317.5	279.4	51	4	4 x 5/8-11	45	265	179
		364/365 TC	539	450	317.5	279.4	52	4	4 x 5/8-11	45	280	209
		404/405 TC	553	550	317.5	279.4	70	6	4 x 5/8-11	45	330	223
		444/445 TC	585	550	406.4	355.6	102	6	4 x 5/8-11	45	330	255
		447/449 TC	580	660	406.4	355.6	67	6	4 x 5/8-11	45	330	250

SK 7407 - SK 7507

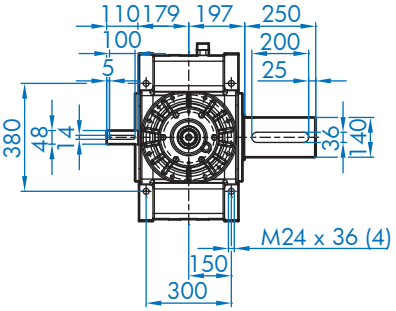


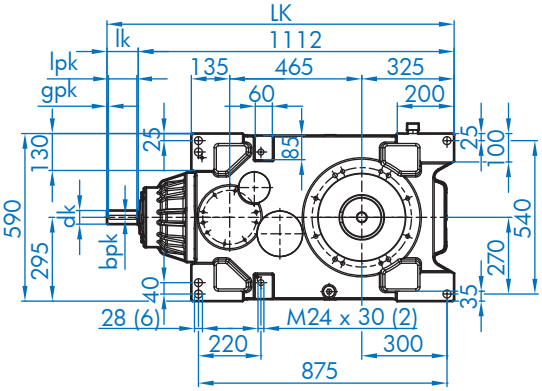
			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 7407	IEC	100	527	250	180	215	11	4	4 x 14.5	0	160	95 / 125
		112	527	250	180	215	11	4	4 x 14.5	0	160	95 / 125
		132	547	300	230	265	12	4	4 x 14.5	0	210	115 / 145
		160	577	350	250	300	15	6.5	4 x 17.5	45	220	145 / 175
		180	577	350	250	300	15	6.5	4 x 17.5	45	220	145 / 175
		200	577	400	300	350	17	6.5	4 x 17.5	45	250	145 / 175
		225	607	450	350	400	18	6.5	8 x 17.5	22.5	250	175 / 205
		250	607	550	450	500	22	8	8 x M16	22.5	250	175 / 205
		280	607	550	450	500	22	8	8 x M16	22.5	250	175 / 205
		315	637	660	550	600	22	8	8 x 22	22.5	250	205 / 235
	TN [2]	315	637	800	680	740	25	8	8 x 22	22.5	250	205 / 235
		355	637	900	780	840	25	8	8 x 22	22.5	250	205 / 235
SK 7507	IEC	100	425	250	180	215	11	4	4 x 14.5	0	160	95
		112	425	250	180	215	11	4	4 x 14.5	0	160	95
		132	445	300	230	265	12	4	4 x 14.5	0	210	115
		160	475	350	250	300	15	6.5	4 x 17.5	45	220	145
		180	475	350	250	300	15	6.5	4 x 17.5	45	220	145
		200	475	400	300	350	17	6.5	4 x 17.5	45	250	145
		225	505	450	350	400	18	6.5	8 x 17.5	22.5	250	175
		250	505	550	450	500	22	8	8 x M16	22.5	250	175
		280	505	550	450	500	22	8	8 x M16	22.5	250	175
		315	535	660	550	600	22	8	8 x 22	22.5	250	205
	TN [2]	315	535	800	680	740	25	8	8 x 22	22.5	250	205
		355	535	900	780	840	25	8	8 x 22	22.5	250	205

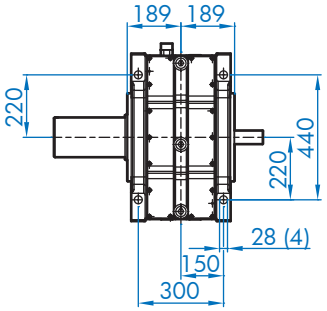
[1] Type designation and dimensions up to 200kW correspond to NORD motors
[2] Data for Transnorm motors available on request

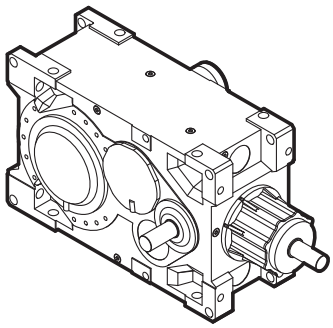
Right-Angle Drives
SK 8407 V
SK 8507 V

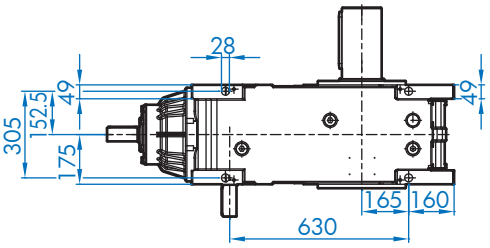
SK 8407/8507 V

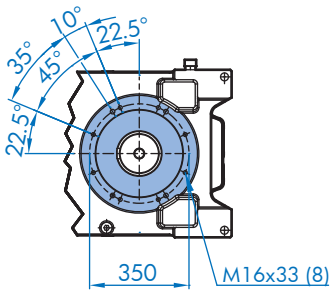




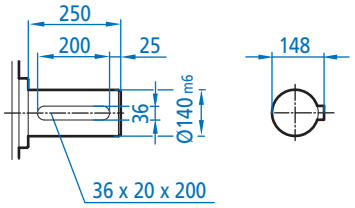




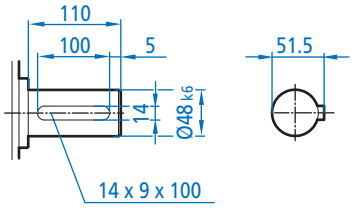




SK 8407/8507 V - Output Shaft Detail



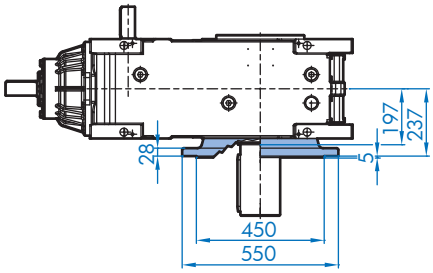
SK 8407/8507 V - Input Shaft Detail

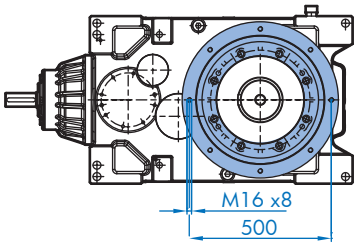


Bevel Input	Ratio	LK	Ødk	lk	lpk	bpk	gpk
SK 8407	20 - 56	1222	48	110	100	14	5
	63 - 112	1192	38	80	70	10	5
SK 8507	125 - 450	1120	28	60	50	8	5

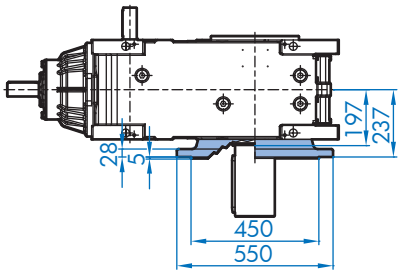
Right-Angle Drives
SK 8407 VF
SK 8507 VF

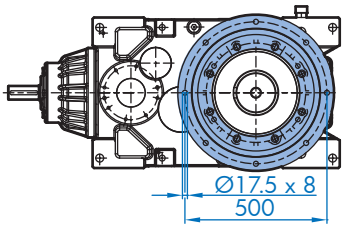
SK 8407/8507 VF



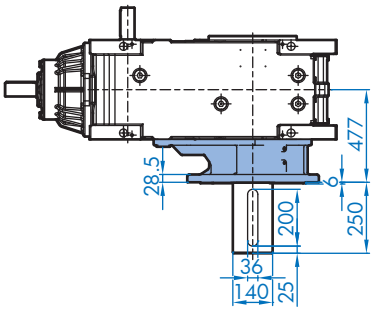


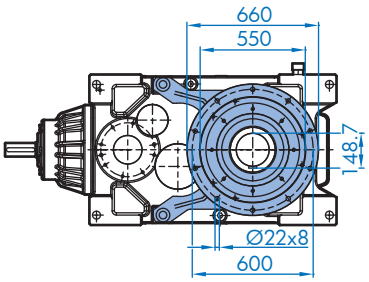
SK 8407/8507 VFK



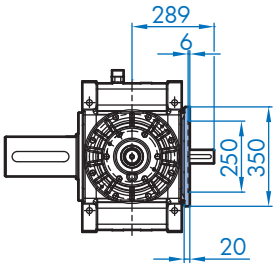


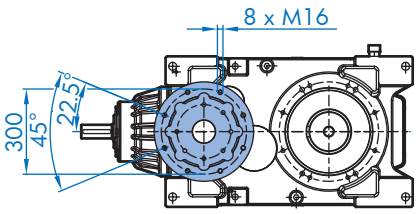
SK 8407/8507 VL2/VL3



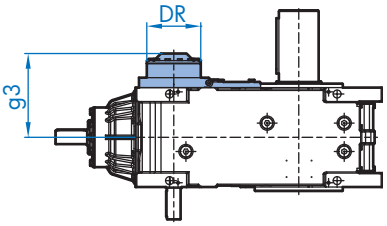


SK 8407/8507 F1 - Input Flange



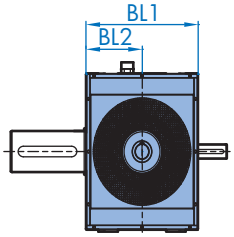


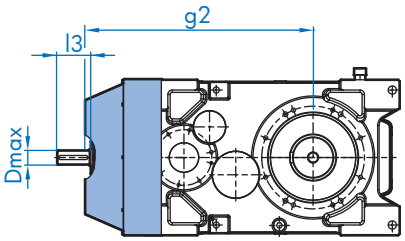
SK 8407/8507 R - Backstop



R	iN	DR	g3
SK8407	20-112	190	295
SK8507	125-450	175	288

SK 8407/8507 FAN

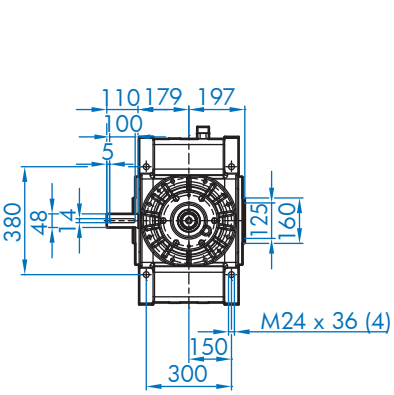


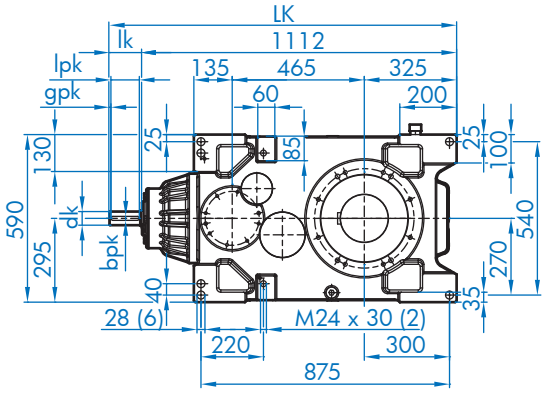


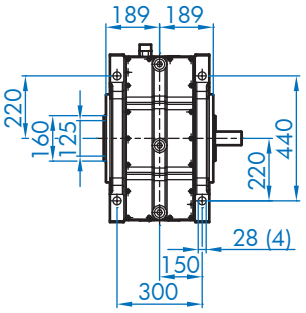
FAN	iN	B1	B2	g2	l3	Dmax
SK8407	18-56	438	219	873.5	74	Ø140
	63-112	438	219	873.5	44	Ø140
SK8507	125-450	438	219	821.5	44	Ø140

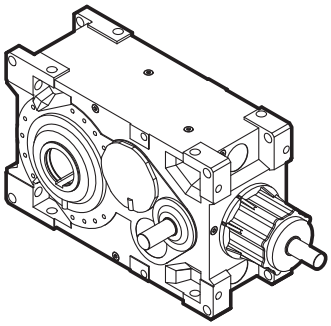
Right-Angle Drives
SK 8407 A
SK 8507 A

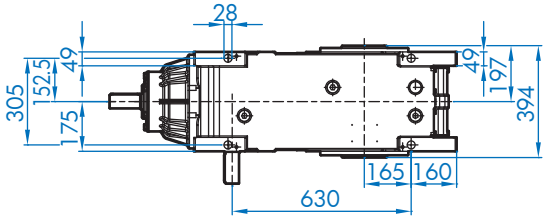
SK 8407/8507 A

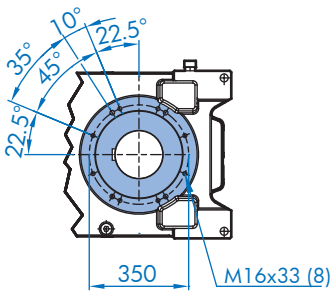




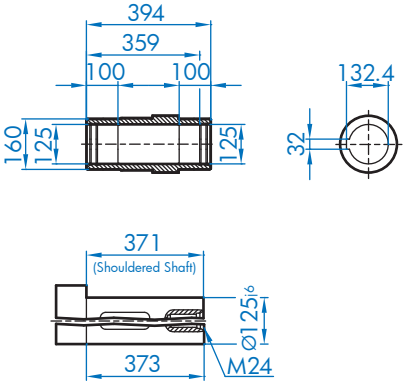






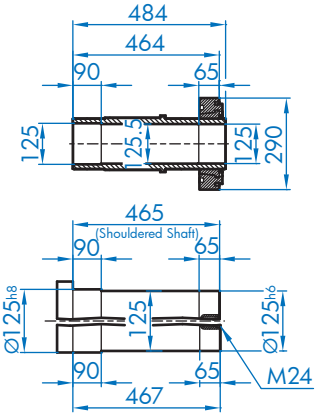


SK 8407/8507 A



customer shaft recommendation

SK 8407/8507 AS

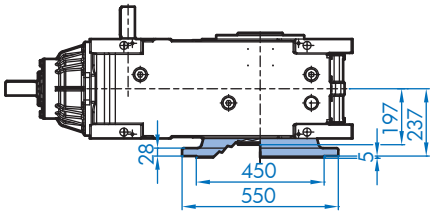


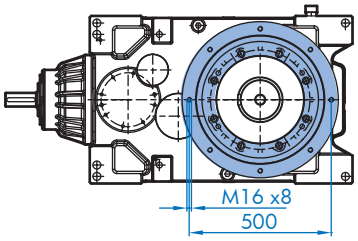
customer shaft recommendation

Bevel Input	Ratio	LK	Ødk	lk	lpk	bpk	gpk
SK 8407	20 - 56	1222	48	110	100	14	5
	63 - 112	1192	38	80	70	10	5
SK 8507	125 - 450	1120	28	60	50	8	5

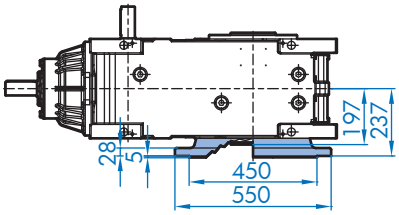
Right-Angle Drives
SK 8407 AF
SK 8507 AF

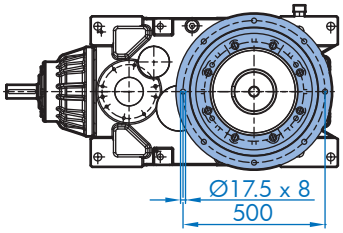
SK 8407/8507 AF



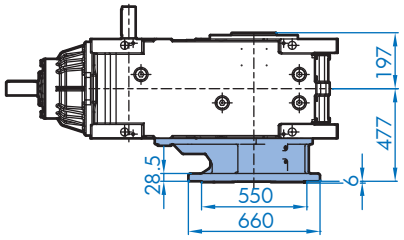


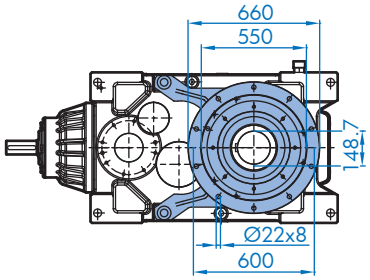
SK 8407/8507 AFK



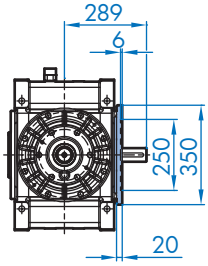


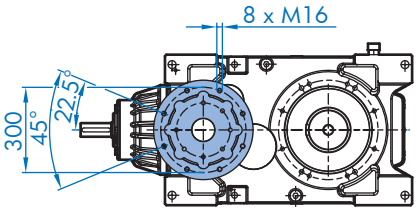
SK 8407/8507 VL2/VL3



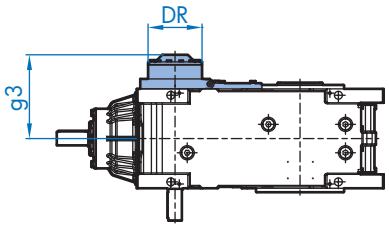


SK 8407/8507 F1 - Input Flange

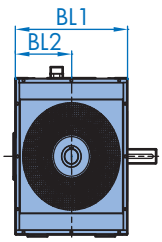


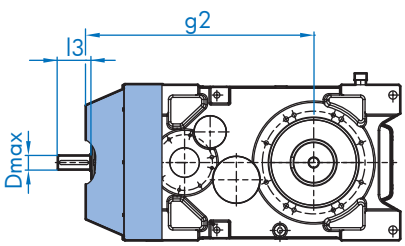


SK 8407/8507 R - Backstop



SK 8407/8507 FAN

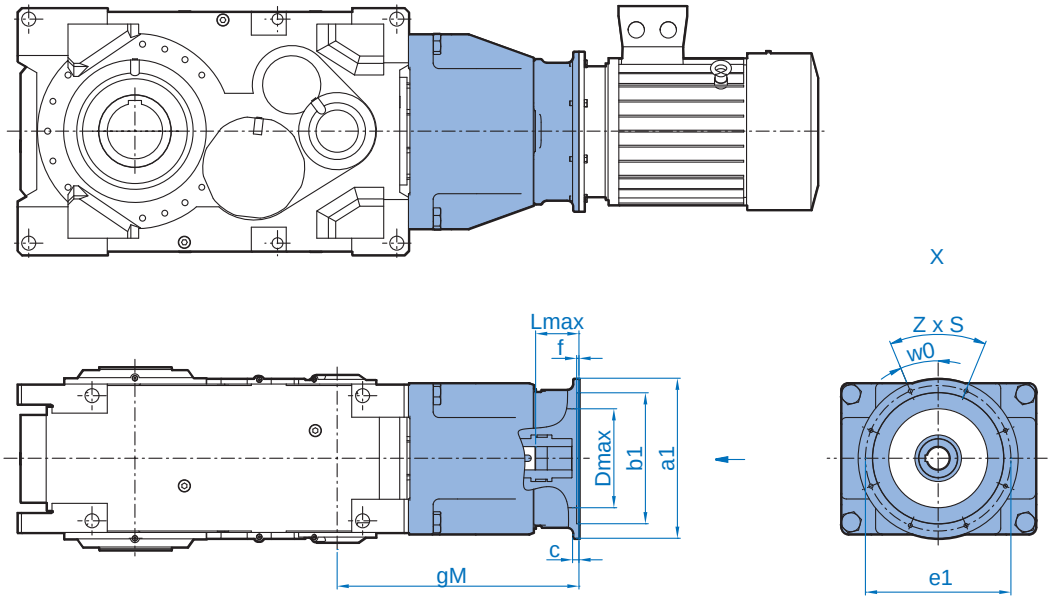




R	iN	DR	g3
SK8407	20-112	190	295
SK8507	125-450	175	288

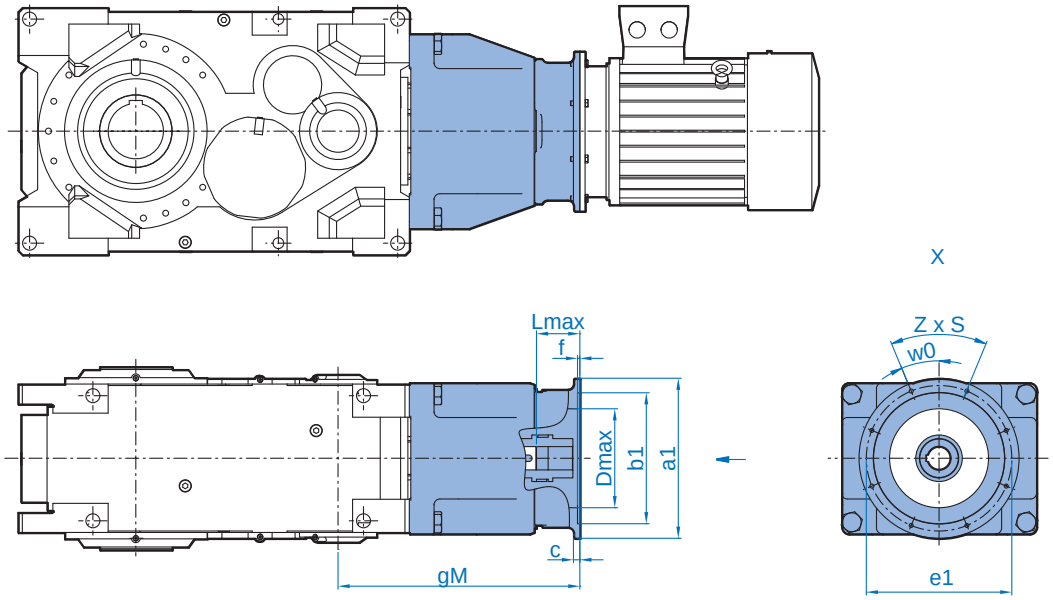
FAN	iN	B1	B2	g2	l3	Dmax
SK8407	18-56	438	219	873.5	74	Ø140
	63-112	438	219	873.5	44	Ø140
SK8507	125-450	438	219	821.5	44	Ø140

SK 8407 - SK 8507



			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 8407	NEMA	254/256 TC	600	350	215.9	184.15	38	4	4 x 1/2-13	45	220	168 / 198
		284/286 TC	600	350	266.7	228.6	38	4	4 x 1/2-13	45	220	168 / 198
		324/326 TC	611	400	317.5	279.4	51	4	4 x 5/8-11	45	265	179 / 209
		364/365 TC	641	450	317.5	279.4	52	4	4 x 5/8-11	45	280	209 / 239
		404/405 TC	655	550	317.5	279.4	70	6	4 x 5/8-11	45	330	223 / 253
		444/445 TC	687	550	406.4	355.6	102	6	4 x 5/8-11	45	330	255 / 285
		447/449 TC	682	660	406.4	355.6	67	6	4 x 5/8-11	45	330	250 / 280
SK 8507	NEMA	254/256 TC	498	350	215.9	184.15	38	4	4 x 1/2-13	45	220	148
		284/286 TC	498	350	266.7	228.6	38	4	4 x 1/2-13	45	220	148
		324/326 TC	509	400	317.5	279.4	51	4	4 x 5/8-11	45	265	159
		364/365 TC	539	450	317.5	279.4	52	4	4 x 5/8-11	45	280	189
		404/405 TC	553	550	317.5	279.4	70	6	4 x 5/8-11	45	330	203
		444/445 TC	585	550	406.4	355.6	102	6	4 x 5/8-11	45	330	235
		447/449 TC	580	660	406.4	355.6	67	6	4 x 5/8-11	45	330	230

SK 8407 - SK 8507



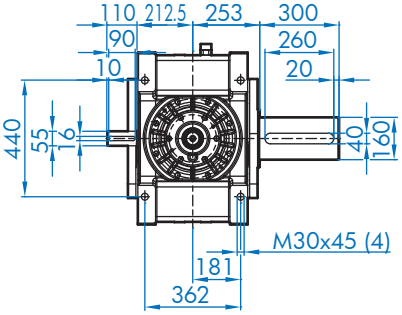
			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 8407	IEC	100	527	250	180	215	11	4	4 x 14.5	0	160	95 / 125
		112	527	250	180	215	11	4	4 x 14.5	0	160	95 / 125
		132	547	300	230	265	12	4	4 x 14.5	0	210	115 / 145
		160	577	350	250	300	15	6.5	4 x 17.5	45	220	145 / 175
		180	577	350	250	300	15	6.5	4 x 17.5	45	220	145 / 175
		200	577	400	300	350	17	6.5	4 x 17.5	45	250	145 / 175
		225	607	450	350	400	18	6.5	8 x 17.5	22.5	250	175 / 205
		250	607	550	450	500	22	8	8 x M16	22.5	250	175 / 205
		280	607	550	450	500	22	8	8 x M16	22.5	250	175 / 205
		315	637	660	550	600	22	8	8 x 22	22.5	250	205 / 235
	TN [2]	315	637	800	680	740	25	8	8 x 22	22.5	250	205 / 235
		355	637	900	780	840	25	8	8 x 22	22.5	250	205 / 235
SK 8507	IEC	100	425	250	180	215	11	4	4 x 14.5	0	160	75
		112	425	250	180	215	11	4	4 x 14.5	0	160	75
		132	445	300	230	265	12	4	4 x 14.5	0	210	95
		160	475	350	250	300	15	6.5	4 x 17.5	45	220	125
		180	475	350	250	300	15	6.5	4 x 17.5	45	220	125
		200	475	400	300	350	17	6.5	4 x 17.5	45	250	125
		225	505	450	350	400	18	6.5	8 x 17.5	22.5	250	155
		250	505	550	450	500	22	8	8 x M16	22.5	250	155
		280	505	550	450	500	22	8	8 x M16	22.5	250	155
		315	535	660	550	600	22	8	8 x 22	22.5	250	185
	TN [2]	315	535	800	680	740	25	8	8 x 22	22.5	250	185
		355	535	900	780	840	25	8	8 x 22	22.5	250	185

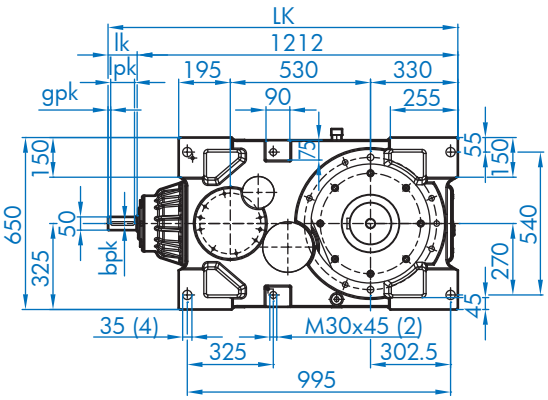
[1] Type designation and dimensions up to 200kW correspond to NORD motors
[2] Data for Transnorm motors available on request

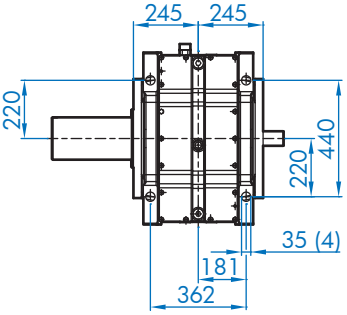
Right-Angle Drives
SK 9407 V
SK 9507 V

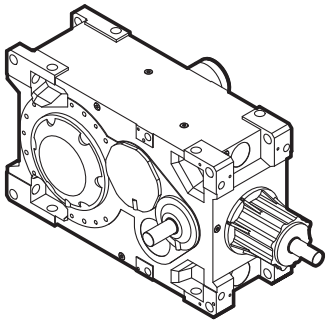
DRIVESYSTEMS

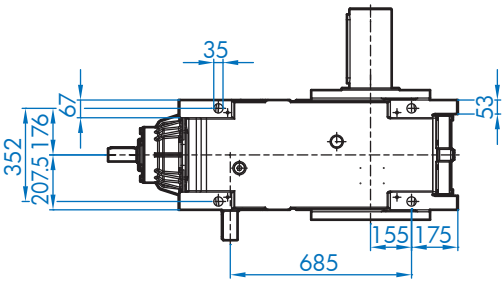
SK 9407/9507 V

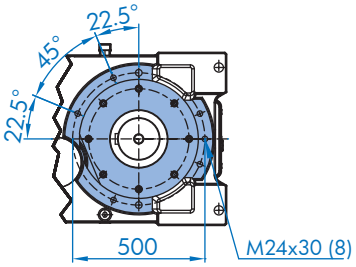




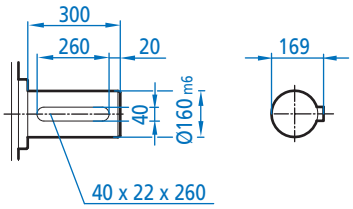




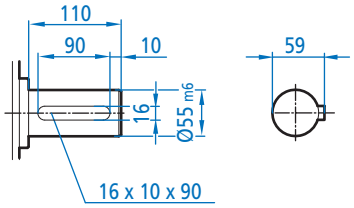




SK 9407/9507 V - Output Shaft Detail



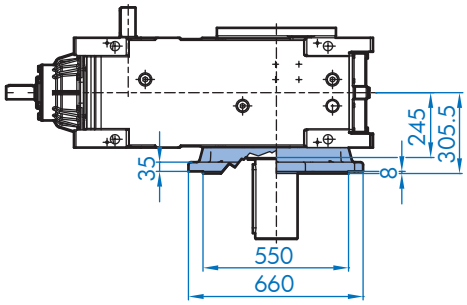
SK 9407/9507 V - Input Shaft Detail

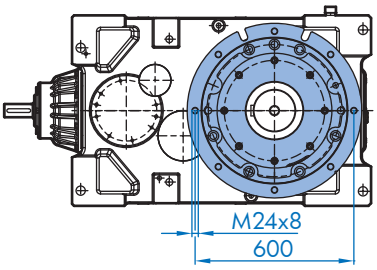


Bevel Input	Ratio	LK	Ødk	lk	lpk	bpk	gpk
SK 9407	18 - 50	1322	50	110	90	14	10
	56 - 100	1312	40	100	80	12	10
SK 9507	112 - 400	1262	38	80	70	10	5

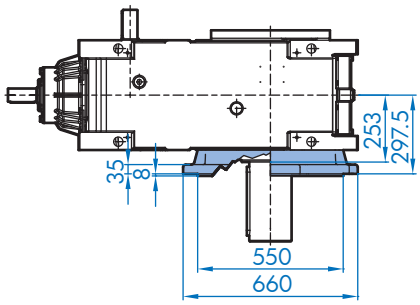
Right-Angle Drives
SK 9407 VF
SK 9507 VF

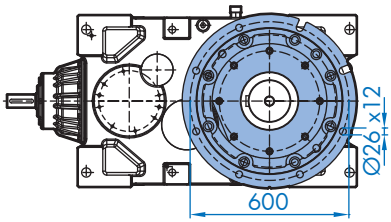
SK 9407/9507 VF



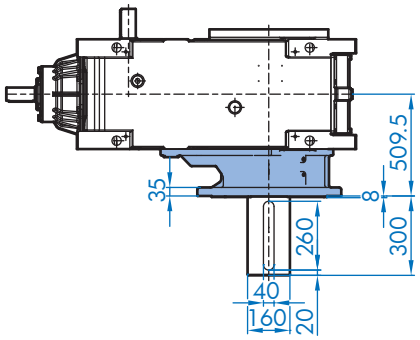


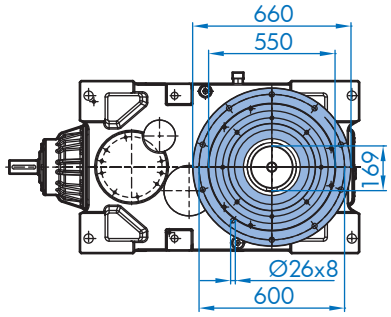
SK 9407/9507 VFK



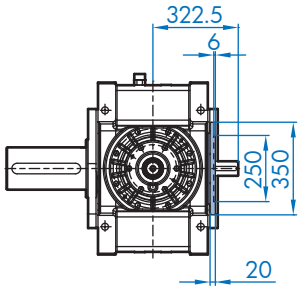


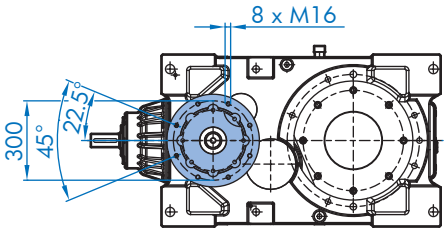
SK 9407/9507 VL2/VL3



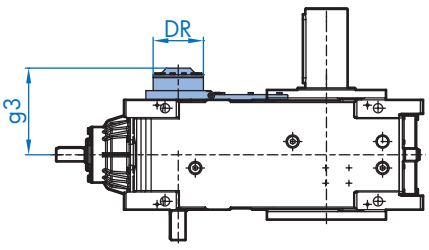


SK 9407/9507 F1 - Input Flange

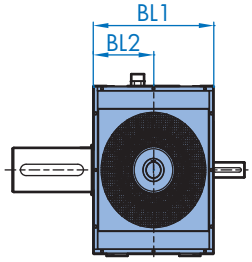


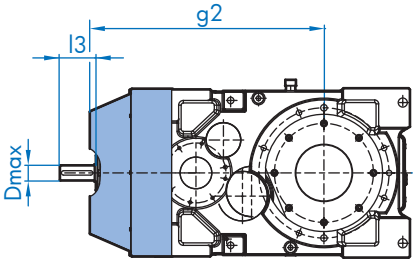


SK 9407/9507 R - Backstop



SK 9407/9507 FAN

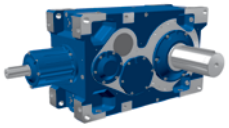




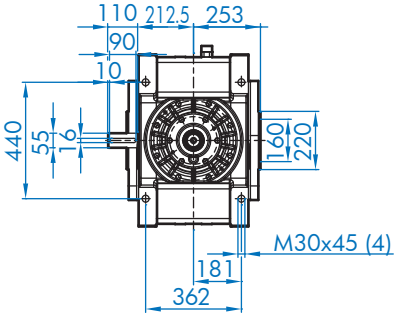
R	iN	DR	g3
SK9407	18-100	210	329.5
SK9507	112-400	190	326.5

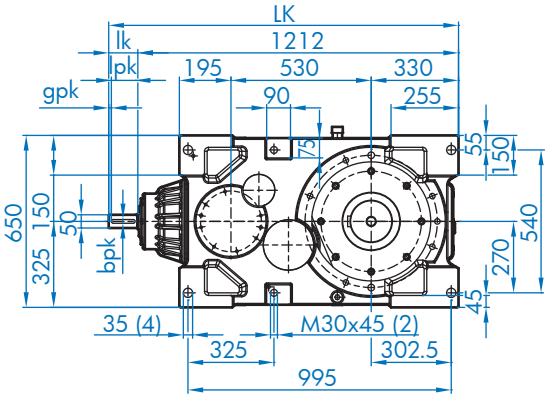
FAN	iN	B1	B2	g2	l3	Dmax
SK9407	18-50	503	251.5	968.5	74	Ø140
	56-100	503	251.5	968.5	64	Ø140
SK9507	112-400	503	251.5	938.5	44	Ø140

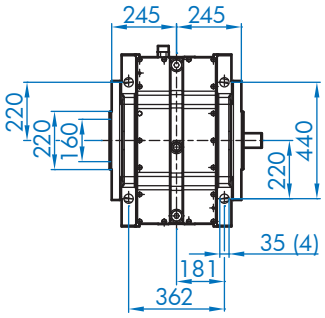
Right-Angle Drives
SK 9407 A
SK 9507 A

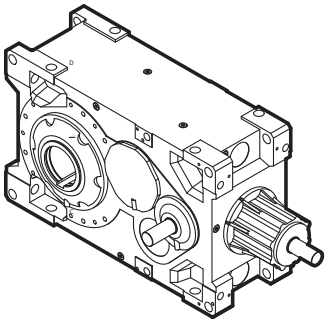


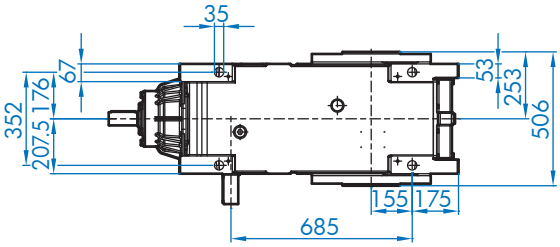
SK 9407/9507 A

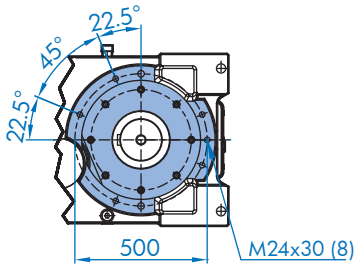






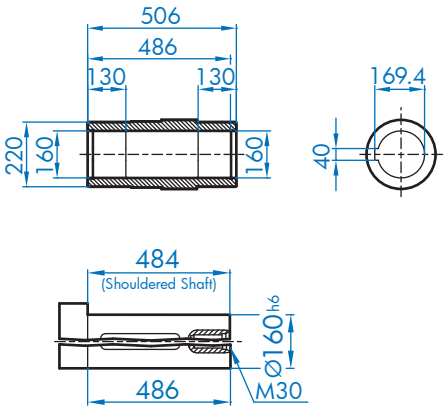






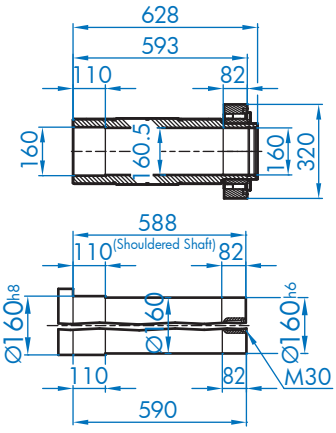
ALTERNATE SHAFTS SEE PAGE 306 - 308

SK 9407/9507 A



customer shaft recommendation

SK 9407/9507 AS

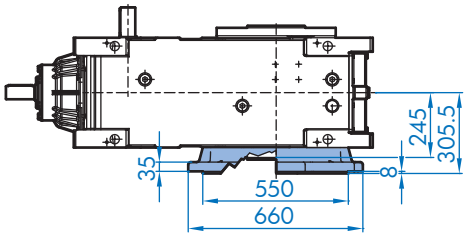


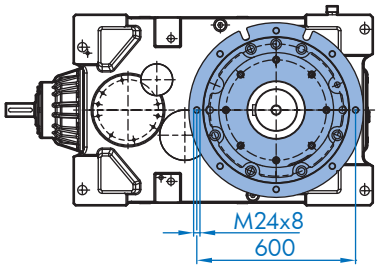
customer shaft recommendation

Bevel Input	Ratio	LK	Ødk	lk	lpk	bpk	gpk
SK 9407	18 - 50	1322	50	110	90	14	10
	56 - 100	1312	40	100	80	12	10
SK 9507	112 - 400	1262	38	80	70	10	5

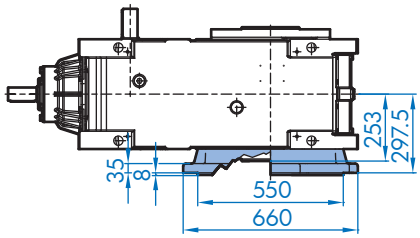
Right-Angle Drives
SK 9407 AF
SK 9507 AF

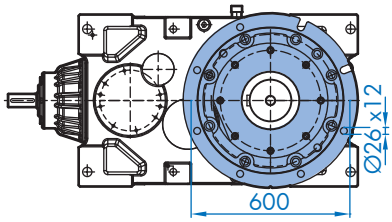
SK 9407/9507 AF



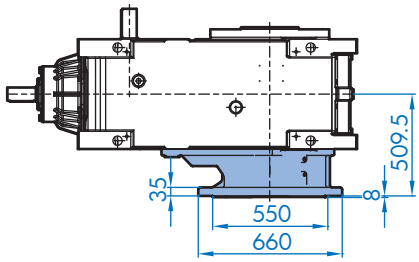


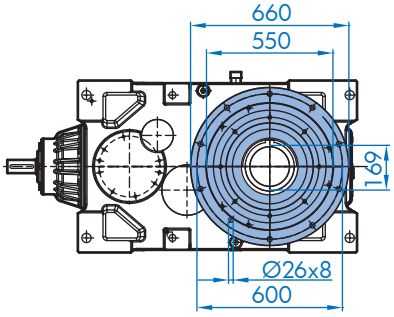
SK 9407/9507 AFK



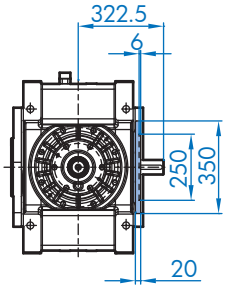


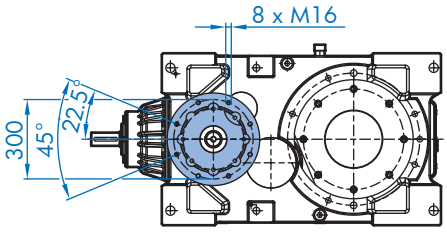
SK 9407/9507 VL2/VL3



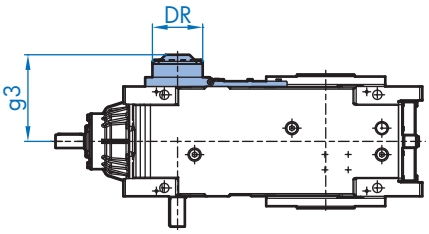


SK 9407/9507 F1 - Input Flange



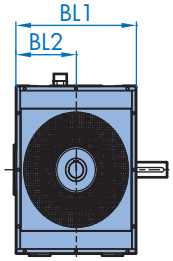


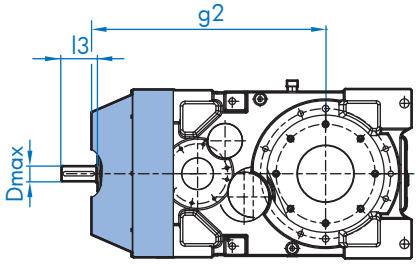
SK 9407/9507 R - Backstop



R	iN	DR	g3
SK9407	18-100	210	329.5
SK9507	112-400	190	326.5

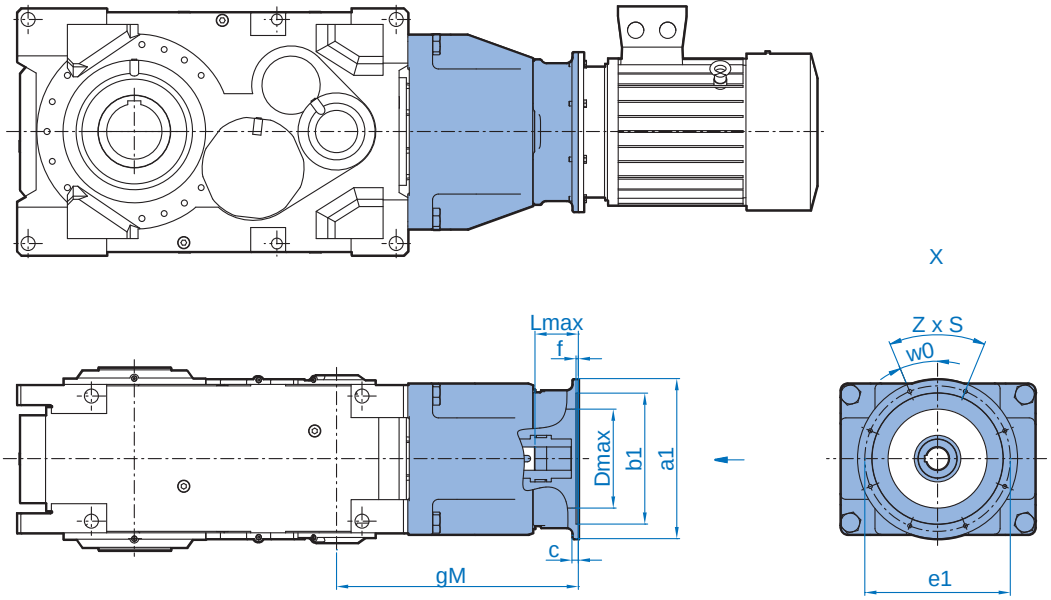
SK 9407/9507 FAN





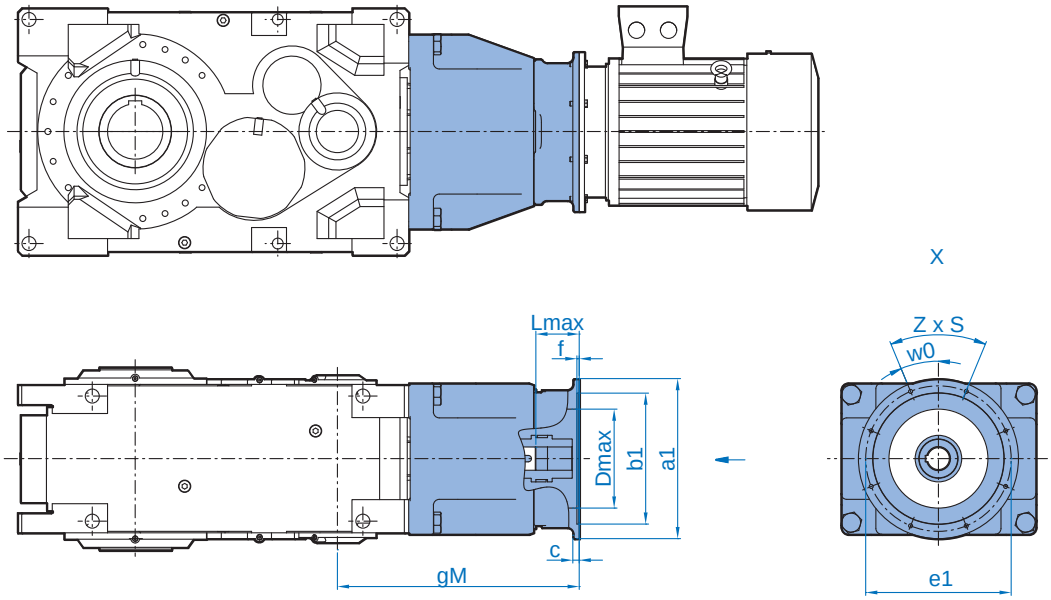
FAN	iN	B1	B2	g2	l3	Dmax
SK9407	18-50	503	251.5	968.5	74	Ø140
	56-100	503	251.5	968.5	64	Ø140
SK9507	112-400	503	251.5	938.5	44	Ø140

SK 9407 - SK 9507



			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 9407	NEMA	254/256 TC	660	350	215.9	184.15	38	4	4 x 1/2-13	45	220	198 / 208
		284/286 TC	660	350	266.7	228.6	38	4	4 x 1/2-13	45	220	198 / 208
		324/326 TC	671	400	317.5	279.4	51	4	4 x 5/8-11	45	265	209 / 219
		364/365 TC	701	450	317.5	279.4	52	4	4 x 5/8-11	45	280	209 / 219
		404/405 TC	715	550	317.5	279.4	70	6	4 x 5/8-11	45	330	253 / 263
		444/445 TC	747	550	406.4	355.6	102	6	4 x 5/8-11	45	330	285 / 295
		447/449 TC	742	660	406.4	355.6	67	6	4 x 5/8-11	45	330	280 / 290
SK 9507	NEMA	254/256 TC	558	350	215.9	184.15	38	4	4 x 1/2-13	45	220	156
		284/286 TC	558	350	266.7	228.6	38	4	4 x 1/2-13	45	220	156
		324/326 TC	569	400	317.5	279.4	51	4	4 x 5/8-11	45	265	167
		364/365 TC	599	450	317.5	279.4	52	4	4 x 5/8-11	45	280	197
		404/405 TC	613	550	317.5	279.4	70	6	4 x 5/8-11	45	330	211
		444/445 TC	645	550	406.4	355.6	102	6	4 x 5/8-11	45	330	243
		447/449 TC	640	660	406.4	355.6	67	6	4 x 5/8-11	45	330	238

SK 9407 - SK 9507



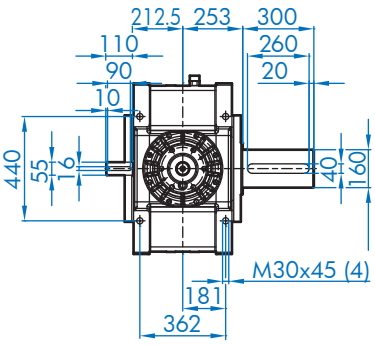
			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 9407	IEC	100	587	250	180	215	11	4	4 x 14.5	0	160	125 / 135
		112	587	250	180	215	11	4	4 x 14.5	0	160	125 / 135
		132	607	300	230	265	12	4	4 x 14.5	0	210	145 / 155
		160	637	350	250	300	15	6.5	4 x 17.5	45	220	175 / 185
		180	637	350	250	300	15	6.5	4 x 17.5	45	220	175 / 185
		200	637	400	300	350	17	6.5	4 x 17.5	45	250	175 / 185
		225	667	450	350	400	18	6.5	8 x 17.5	22.5	250	205 / 215
		250	667	550	450	500	22	8	8 x M16	22.5	250	205 / 215
		280	667	550	450	500	22	8	8 x M16	22.5	250	205 / 215
		315	697	660	550	600	22	8	8 x 22	22.5	250	235 / 245
	TN [2]	315	697	800	680	740	25	8	8 x 22	22.5	250	235 / 245
		355	697	900	780	840	25	8	8 x 22	22.5	250	235 / 245
SK 9507	IEC	100	485	250	180	215	11	4	4 x 14.5	0	160	83
		112	485	250	180	215	11	4	4 x 14.5	0	160	83
		132	505	300	230	265	12	4	4 x 14.5	0	210	103
		160	535	350	250	300	15	6.5	4 x 17.5	45	220	133
		180	535	350	250	300	15	6.5	4 x 17.5	45	220	133
		200	535	400	300	350	17	6.5	4 x 17.5	45	250	133
		225	565	450	350	400	18	6.5	8 x 17.5	22.5	250	163
		250	565	550	450	500	22	8	8 x M16	22.5	250	163
		280	565	550	450	500	22	8	8 x M16	22.5	250	163
		315	595	660	550	600	22	8	8 x 22	22.5	250	193
	TN [2]	315	595	800	680	740	25	8	8 x 22	22.5	250	193
		355	595	900	780	840	25	8	8 x 22	22.5	250	193

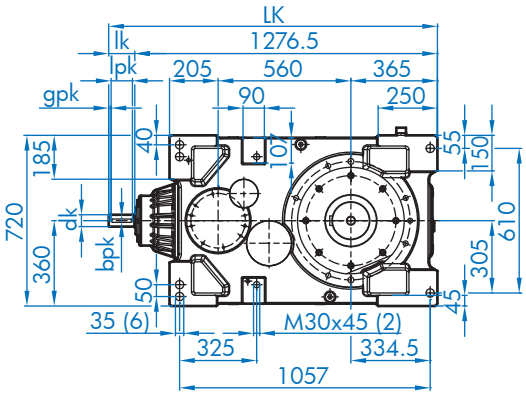
[1] Type designation and dimensions up to 200kW correspond to NORD motors
[2] Data for Transnorm motors available on request

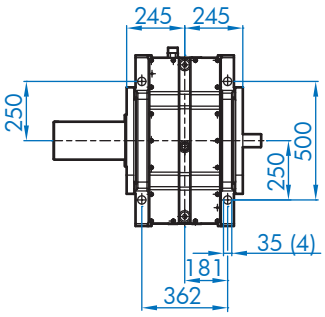
Right-Angle Drives
SK 10407 V
SK 10507 V

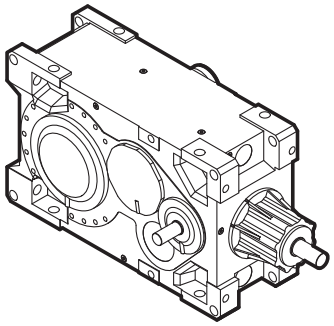
DRIVESYSTEMS

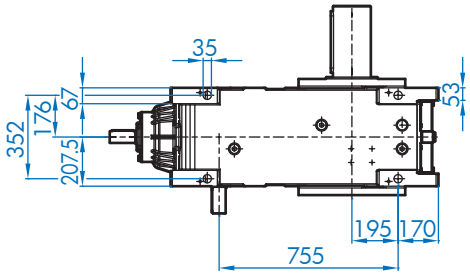
SK 10407/10507 V

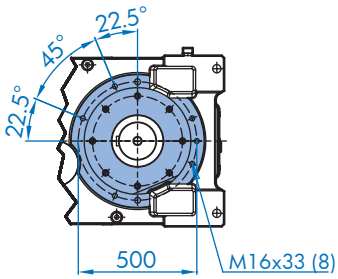




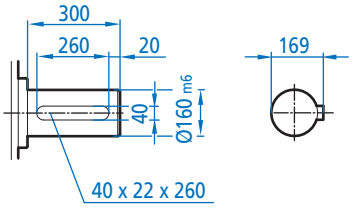




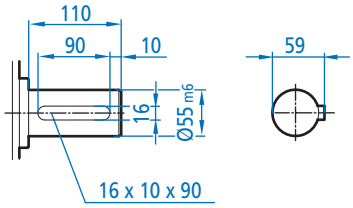




SK 10407/10507 V - Output Shaft Detail



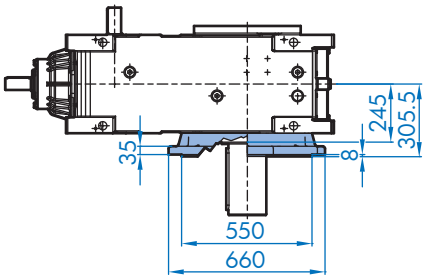
SK 10407/10507 V - Input Shaft Detail

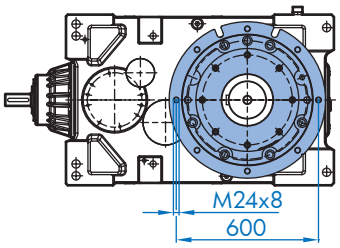


Bevel Input	Ratio	LK	Ødk	lk	lpk	bpk	gpk
SK 10407	20 - 56	1387	50	110	90	14	10
	63 - 112	1377	40	100	80	12	10
SK 10507	125 - 450	1337	38	80	70	10	5

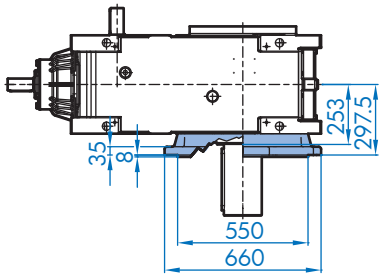
Right-Angle Drives
SK 10407 VF
SK 10507 VF

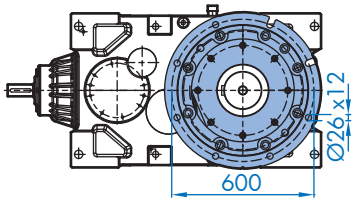
SK 10407/10507 VF



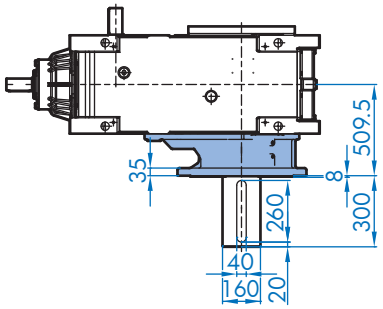


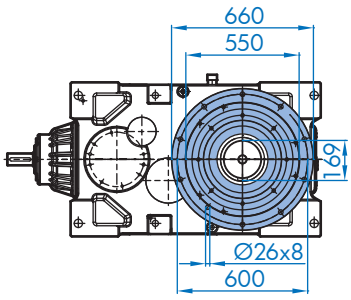
SK 10407/10507 VFK



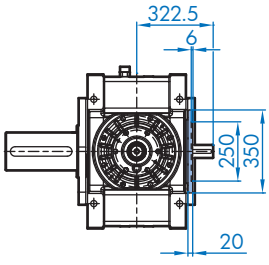


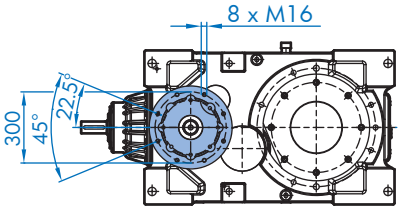
SK 10407/10507 VL2/VL3



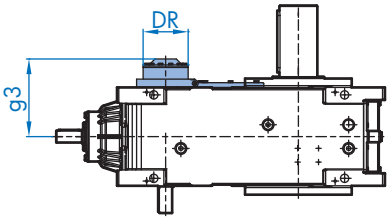


SK 10407/10507 F1 - Input Flange

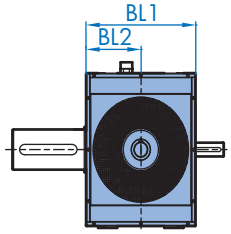


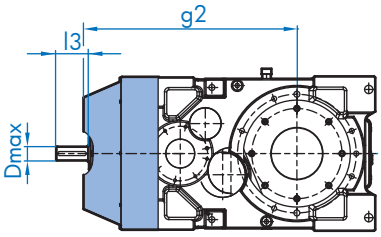


SK 10407/10507 R - Backstop



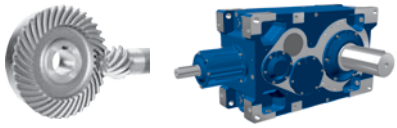
SK 10407/10507 FAN





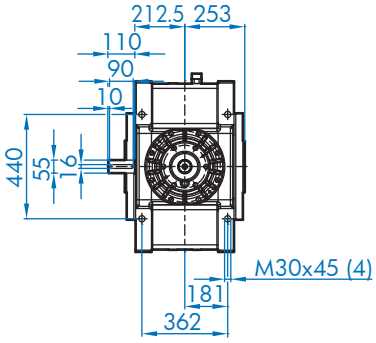
R	iN	DR	g3
SK10407	20-112	210	329.5
SK10507	125-450	190	326.5

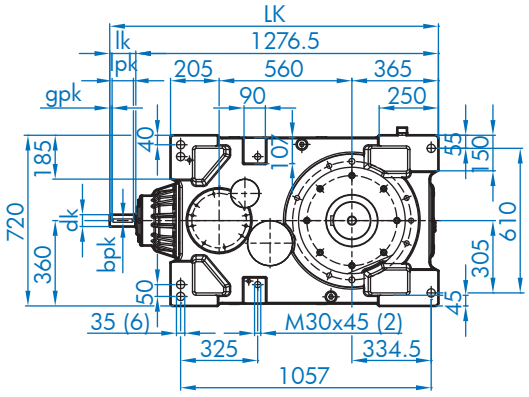
FAN	iN	B1	B2	g2	l3	Dmax
SK10407	20-56	503	251.5	938.5	74	Ø140
	63-112	503	251.5	998.5	64	Ø140
SK10507	125-450	503	251.5	978.5	44	Ø140

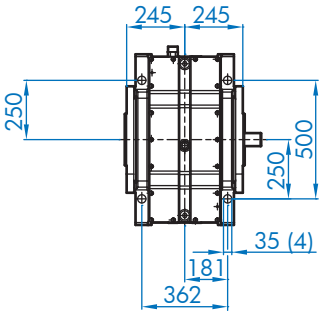


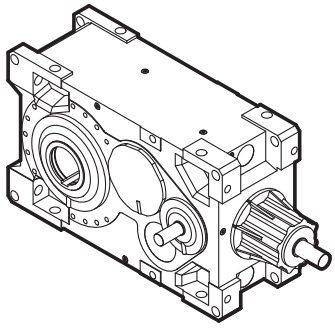
DRIVESYSTEMS

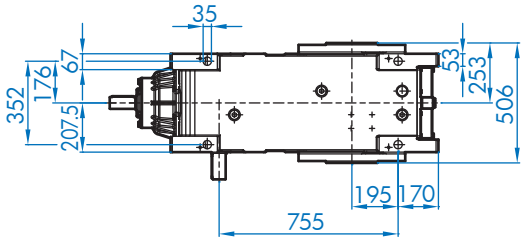
SK 10407/10507 A

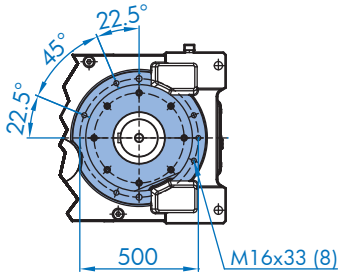






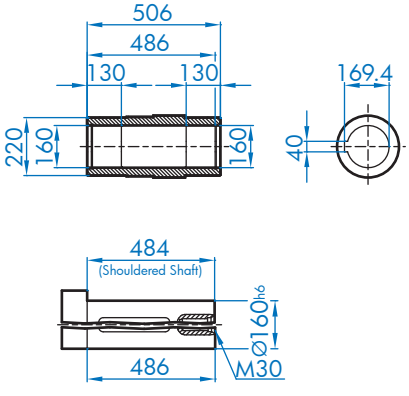






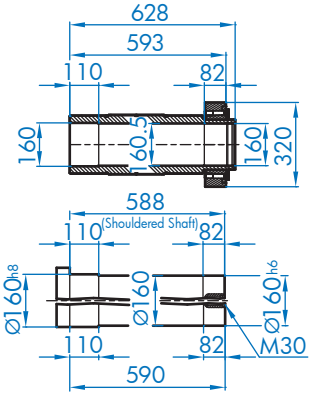
ALTERNATE SHAFTS SEE PAGE 306 - 308

SK 10407/10507 A



customer shaft recommendation

SK 10407/10507 AS

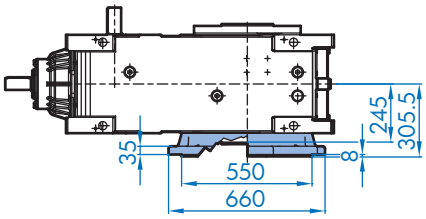


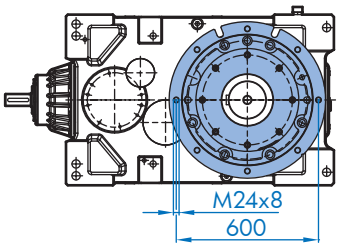
customer shaft recommendation

Bevel Input	Ratio	LK	Ødk	lk	lpk	bpk	gpk
SK 10407	20 - 56	1387	50	110	90	14	10
	63 - 112	1377	40	100	80	12	10
SK 10507	125 - 450	1337	38	80	70	10	5

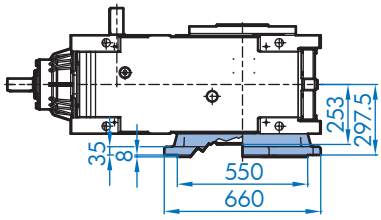
Right-Angle Drives
SK 10407 AF
SK 10507 AF

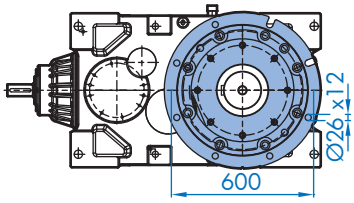
SK 10407/10507 AF



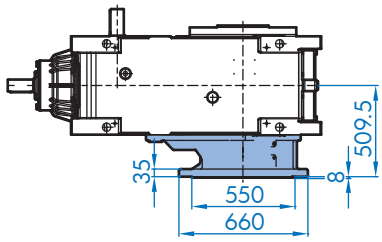


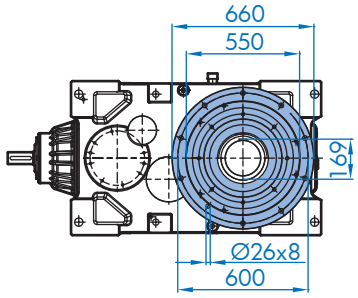
SK 10407/10507 AFK



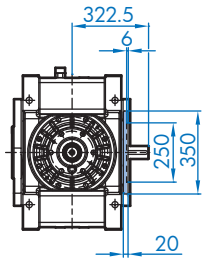


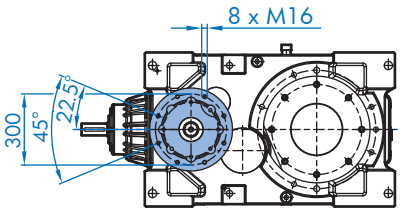
SK 10407/10507 VL2/VL3



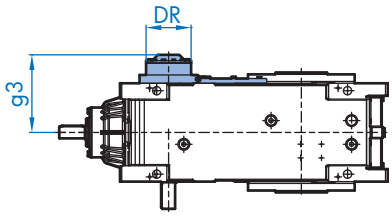


SK 10407/10507 F1 - Input Flange



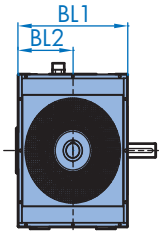


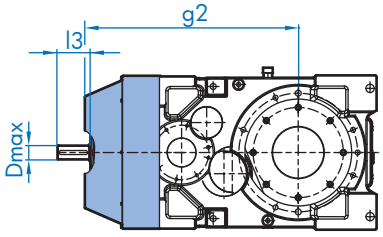
SK 10407/10507 R - Backstop



R	iN	DR	g3
SK10407	20-112	210	329.5
SK10507	125-450	190	326.5

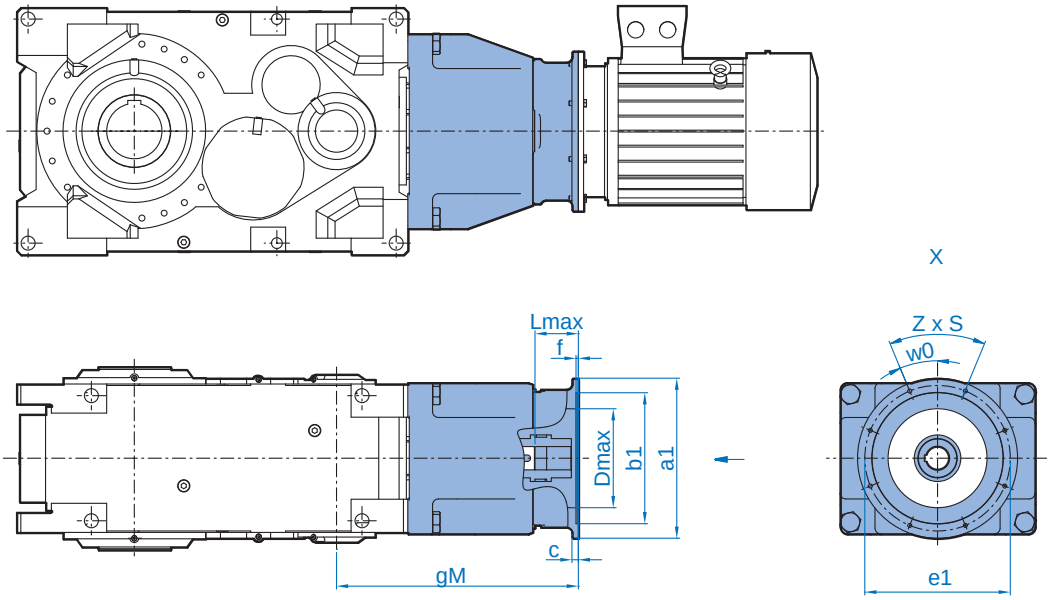
SK 10407/10507 FAN





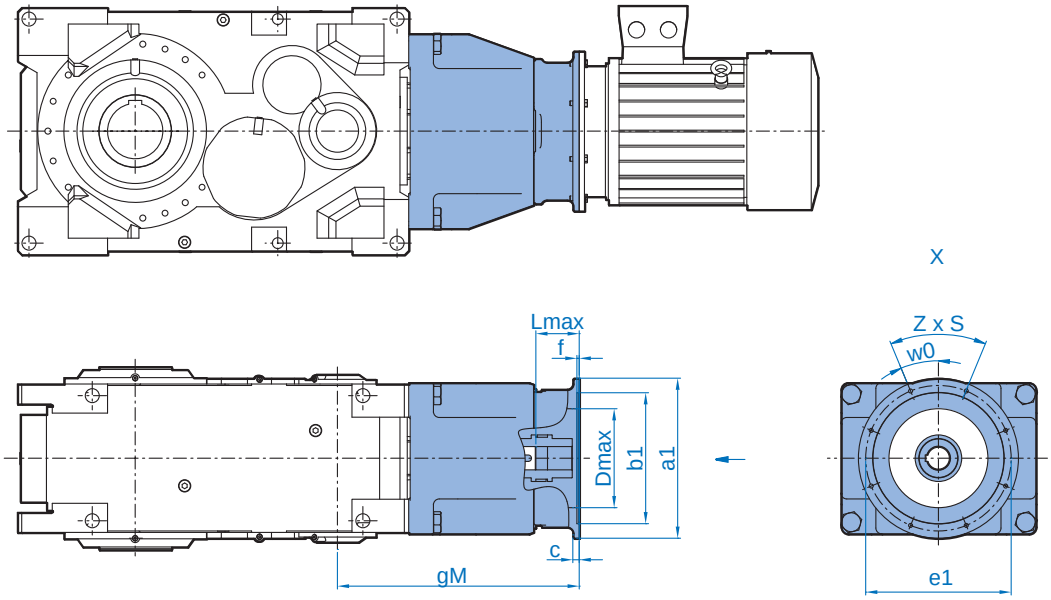
FAN	iN	B1	B2	g2	l3	Dmax
SK10407	20-56	503	251.5	938.5	74	Ø140
	63-112	503	251.5	998.5	64	Ø140
SK10507	125-450	503	251.5	978.5	44	Ø140

SK 10407 - SK 10507



			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 10407	NEMA	254/256 TC	670	350	215.9	184.15	38	4	4 x 1/2-13	45	220	208 / 218
		284/286 TC	670	350	266.7	228.6	38	4	4 x 1/2-13	45	220	208 / 218
		324/326 TC	681	400	317.5	279.4	51	4	4 x 5/8-11	45	265	219 / 229
		364/365 TC	711	450	317.5	279.4	52	4	4 x 5/8-11	45	280	249 / 259
		404/405 TC	725	550	317.5	279.4	70	6	4 x 5/8-11	45	330	263 / 273
		444/445 TC	757	550	406.4	355.6	102	6	4 x 5/8-11	45	330	295 / 305
		447/449 TC	752	660	406.4	355.6	67	6	4 x 5/8-11	45	330	290 / 300
SK 10507	NEMA	254/256 TC	568	350	215.9	184.15	38	4	4 x 1/2-13	45	220	156
		284/286 TC	568	350	266.7	228.6	38	4	4 x 1/2-13	45	220	156
		324/326 TC	579	400	317.5	279.4	51	4	4 x 5/8-11	45	265	167
		364/365 TC	609	450	317.5	279.4	52	4	4 x 5/8-11	45	280	197
		404/405 TC	623	550	317.5	279.4	70	6	4 x 5/8-11	45	330	211
		444/445 TC	655	550	406.4	355.6	102	6	4 x 5/8-11	45	330	243
		447/449 TC	650	660	406.4	355.6	67	6	4 x 5/8-11	45	330	238

SK 10407 - SK 10507

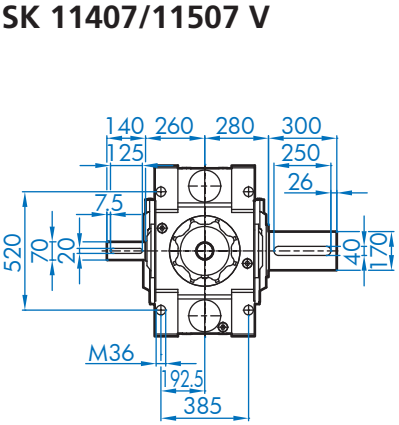


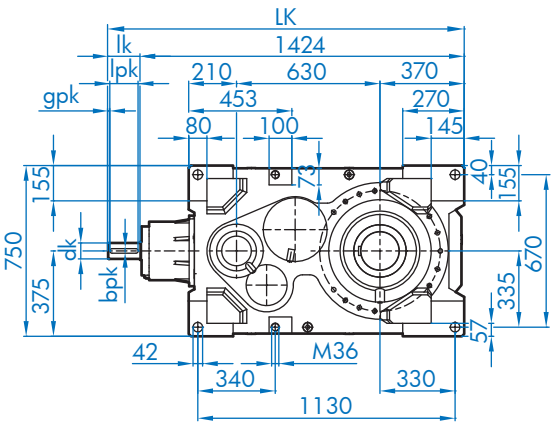
			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 10407	IEC	100	597	250	180	215	11	4	4 x 14.5	0	160	135 / 145
		112	597	250	180	215	11	4	4 x 14.5	0	160	135 / 145
		132	617	300	230	265	12	4	4 x 14.5	0	210	155 / 165
		160	647	350	250	300	15	6.5	4 x 17.5	45	220	185 / 195
		180	647	350	250	300	15	6.5	4 x 17.5	45	220	185 / 195
		200	647	400	300	350	17	6.5	4 x 17.5	45	250	185 / 195
		225	677	450	350	400	18	6.5	8 x 17.5	22.5	250	215 / 225
		250	677	550	450	500	22	8	8 x M16	22.5	250	215 / 225
		280	677	550	450	500	22	8	8 x M16	22.5	250	215 / 225
		315	707	660	550	600	22	8	8 x 22	22.5	250	245 / 255
	TN [2]	315	707	800	680	740	25	8	8 x 22	22.5	250	245 / 255
		355	707	900	780	840	25	8	8 x 22	22.5	250	245 / 255
SK 10507	IEC	100	495	250	180	215	11	4	4 x 14.5	0	160	83
		112	495	250	180	215	11	4	4 x 14.5	0	160	83
		132	515	300	230	265	12	4	4 x 14.5	0	210	103
		160	545	350	250	300	15	6.5	4 x 17.5	45	220	133
		180	545	350	250	300	15	6.5	4 x 17.5	45	220	133
		200	545	400	300	350	17	6.5	4 x 17.5	45	250	133
		225	575	450	350	400	18	6.5	8 x 17.5	22.5	250	163
		250	575	550	450	500	22	8	8 x M16	22.5	250	163
		280	575	550	450	500	22	8	8 x M16	22.5	250	163
		315	605	660	550	600	22	8	8 x 22	22.5	250	193
	TN [2]	315	605	800	680	740	25	8	8 x 22	22.5	250	193
		355	605	900	780	840	25	8	8 x 22	22.5	250	193

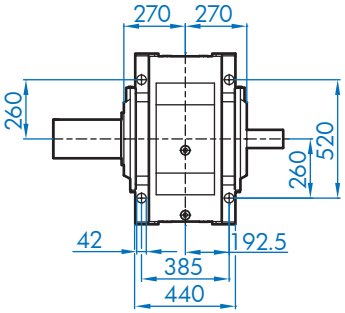
[1] Type designation and dimensions up to 200kW correspond to NORD motors
[2] Data for Transnorm motors available on request

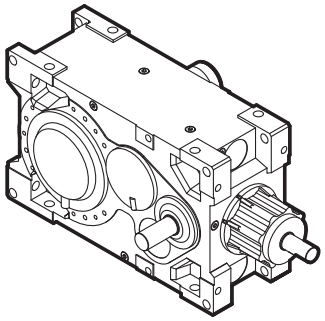
Right-Angle Drives
SK 11407 V
SK 11507 V

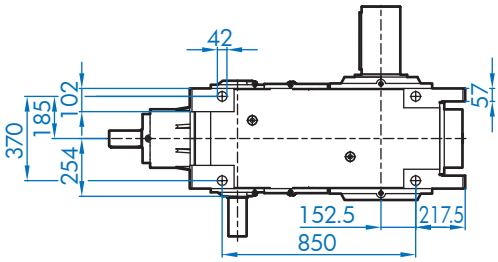
SK 11407/11507 V

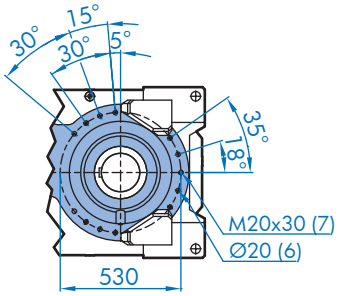




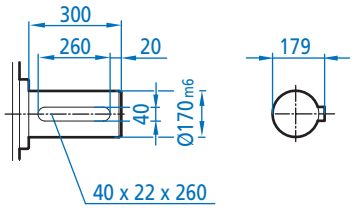




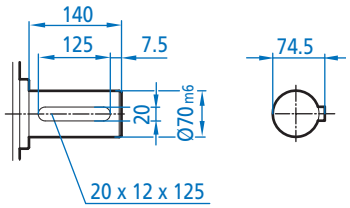




SK 11407/11507 V - Output Shaft Detail



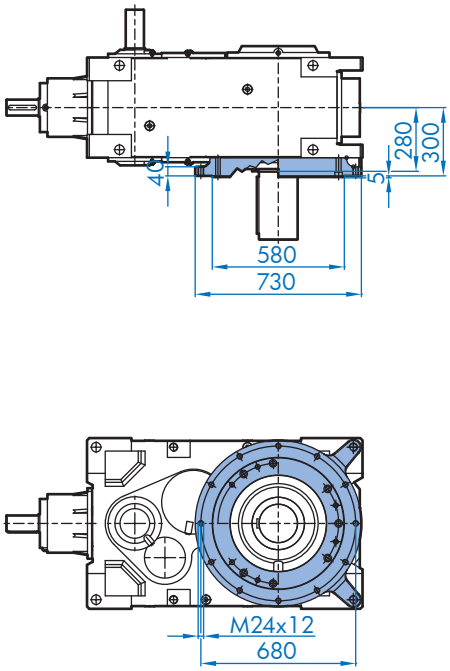
SK 11407/11507 V - Input Shaft Detail



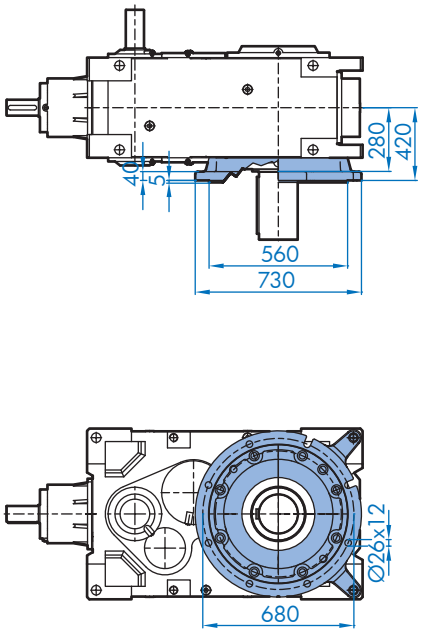
Bevel Input	Ratio	LK	Ødk	lk	lpk	bpk	gpk
SK 11407	12.6 - 45	1564	70	140	125	20	7.5
	50 - 71	1534	50	110	90	14	10
SK 11507	80 - 400	1481	50	110	90	14	10

Right-Angle Drives
SK 11407 VF
SK 11507 VF

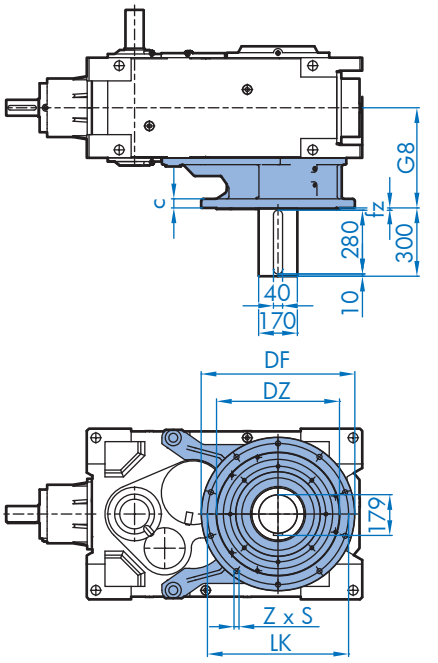
SK 11407/11507 VF



SK 11407/11507 VFK

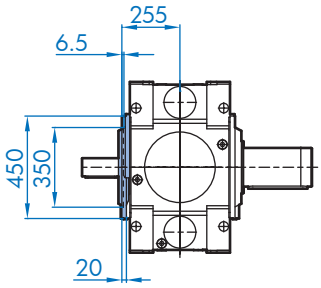


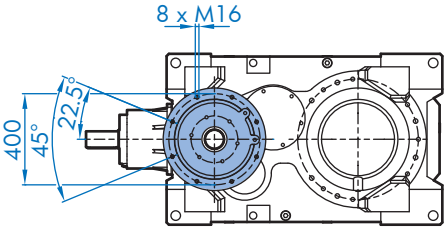
SK 11407/11507 VL2/VL3



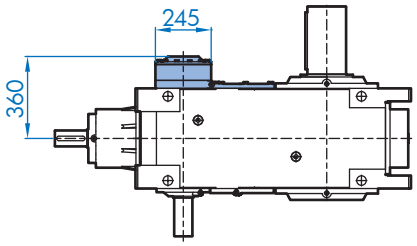
VL2/VL3	G8	DF	DZ	LK	fz	c	z	s
SK11.07	440	675	540	600	5	40	10	22
	455	760	600	620	5	50	12	22

SK 11407/11507 F1 - Input Flange



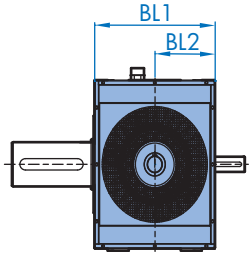


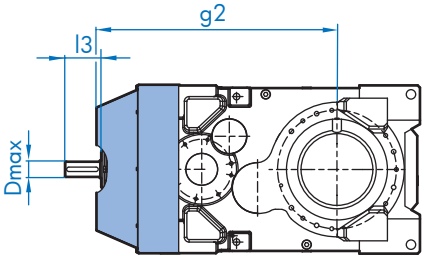
SK 11407/11507 R - Backstop



R	iN	DR	g3
SK11407	11.2-80	245	360
SK11507	80-100	210	350
SK11507	112-400	190	340

SK 11407/11507 FAN

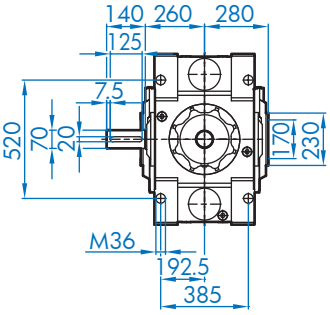


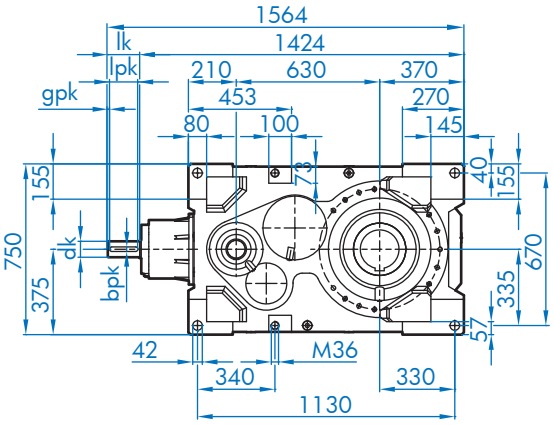


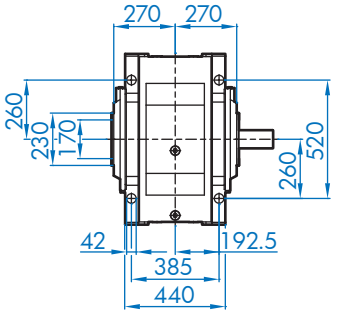
FAN	iN	B1	B2	g2	l3	Dmax
SK11407	12.6-45	574	287	1125	100	Ø210
	50-71	574	287	1125	70	Ø210
SK11507	80-400	574	287	1050	70	Ø210

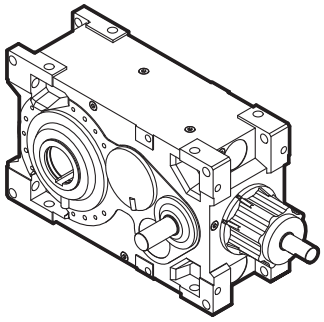
Right-Angle Drives
SK 11407 A
SK 11507 A

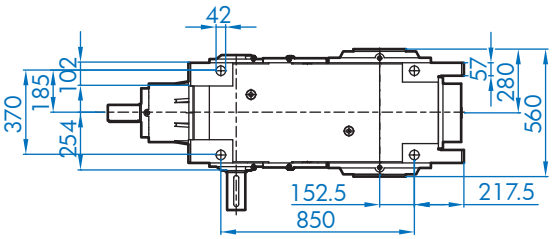
SK 11407/11507 A

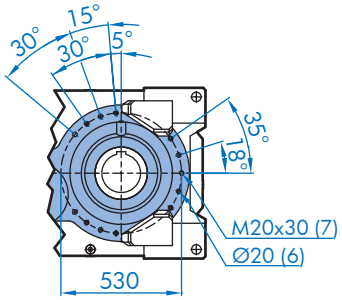




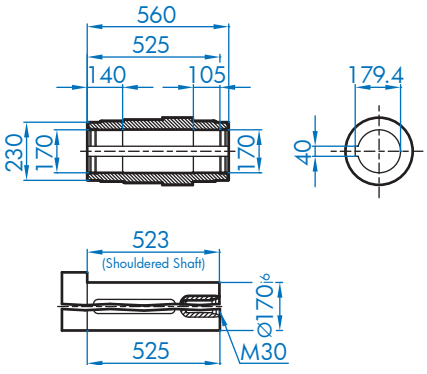






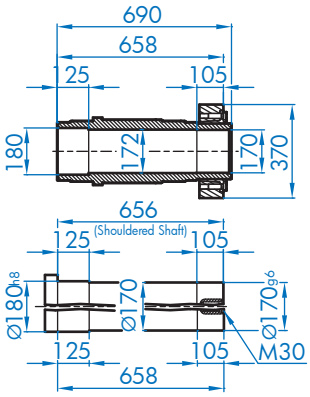


SK 11407/11507 A



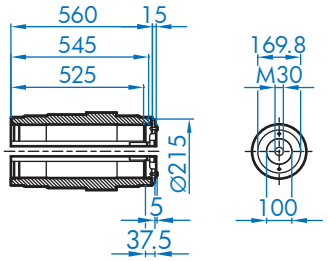
customer shaft recommendation

SK 11407/11507 AS



customer shaft recommendation

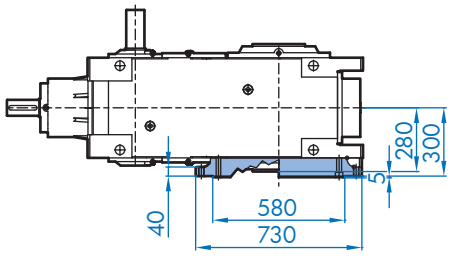
SK 11407/11507 - AB

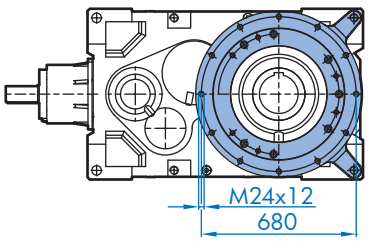


Bevel Input	Ratio	LK	Ødk	lk	lpk	bpk	gpk
SK 11407	12.6 - 45	1564	70	140	125	20	7.5
	50 - 71	1534	50	110	90	14	10
SK 11507	80 - 400	1481	50	110	90	14	10

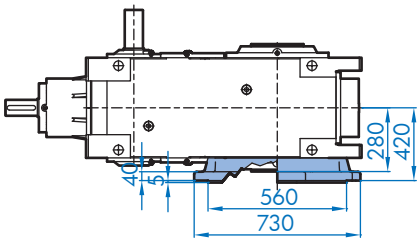
Right-Angle Drives
SK 11407 AF
SK 11507 AF

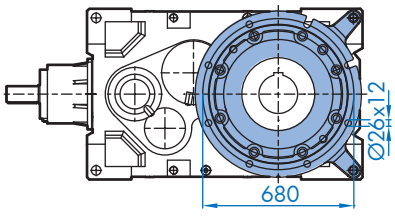
SK 11407/11507 AF



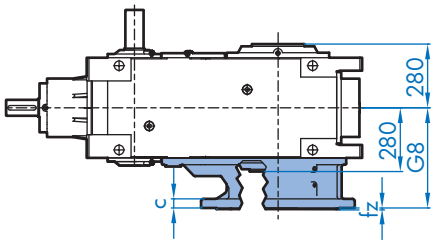


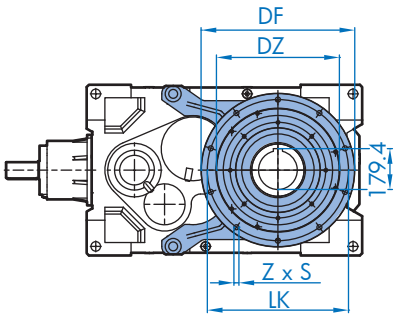
SK 11407/11507 AFK





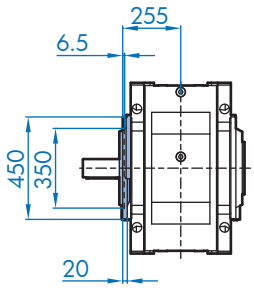
SK 11407/11507 VL2/VL3

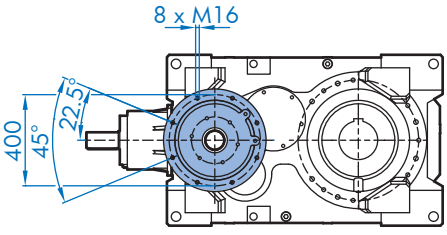




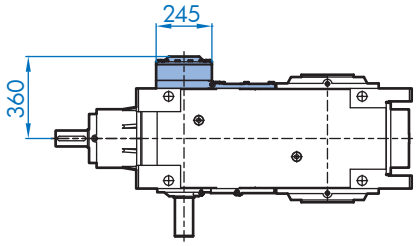
VL2/VL3	G8	DF	DZ	LK	fz	c	z	s
SK11.07	440	675	540	600	5	40	10	22
	455	760	600	620	5	50	12	22

SK 11407/11507 F1 - Input Flange



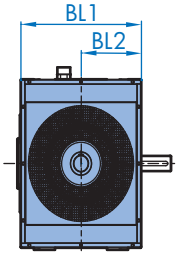


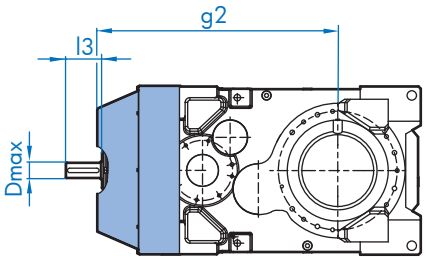
SK 11407/11507 R - Backstop



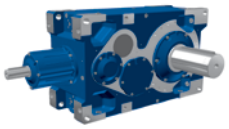
R	iN	DR	g3
SK11407	11.2-80	245	360
SK11507	80-100	210	350
SK11507	112-400	190	340

SK 11407/11507 FAN



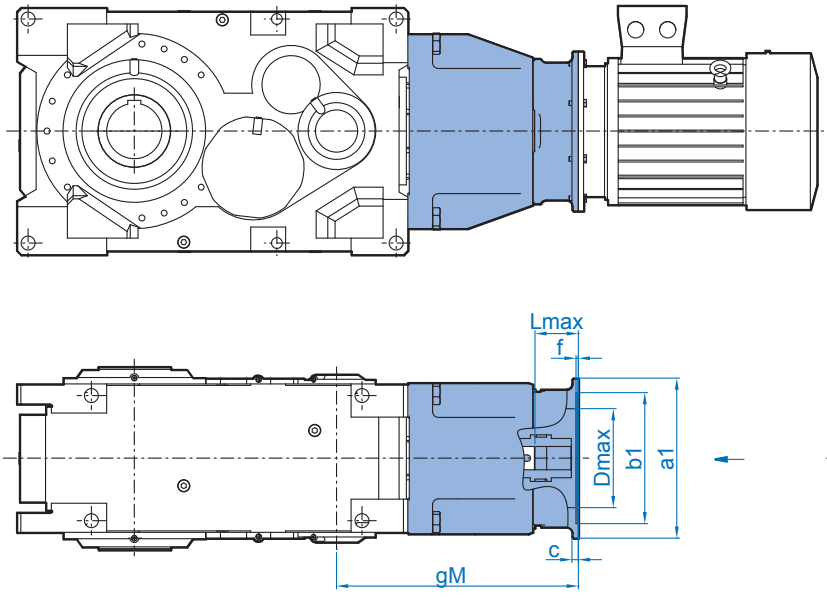


FAN	iN	B1	B2	g2	l3	Dmax
SK11407	12.6-45	574	287	1125	100	Ø210
	50-71	574	287	1125	70	Ø210
SK11507	80-400	574	287	1050	70	Ø210

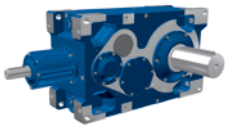


DRIVESYSTEMS

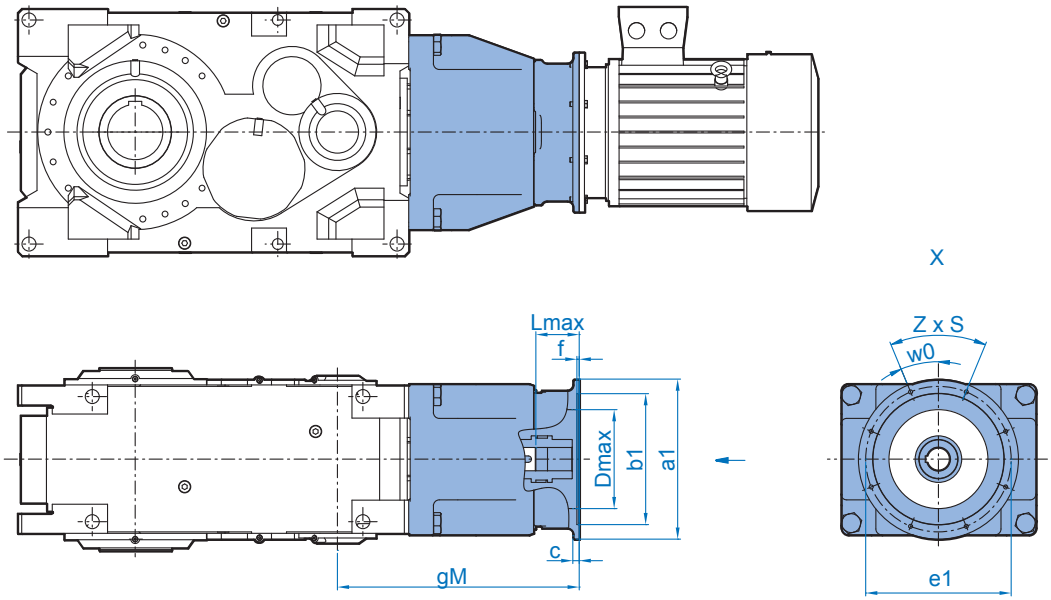
SK 11407 - SK 11507



			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 11407	NEMA	254/256 TC	707	350	215.9	184.15	38	4	4 x 1/2-13	45	220	143 / 173
		284/286 TC	707	350	266.7	228.6	38	4	4 x 1/2-13	45	220	143 / 173
		324/326 TC	718	400	317.5	279.4	51	4	4 x 5/8-11	45	265	154 / 184
		364/365 TC	748	450	317.5	279.4	52	4	4 x 5/8-11	45	280	184 / 214
		404/405 TC	762	550	317.5	279.4	70	6	4 x 5/8-11	45	330	198 / 228
		444/445 TC	794	550	406.4	355.6	102	6	4 x 5/8-11	45	330	230 / 260
		447/449 TC	789	660	406.4	355.6	67	6	4 x 5/8-11	45	330	225 / 255
SK 11507	NEMA	254/256 TC	624	350	215.9	184.15	38	4	4 x 1/2-13	45	220	143
		284/286 TC	624	350	266.7	228.6	38	4	4 x 1/2-13	45	220	143
		324/326 TC	635	400	317.5	279.4	51	4	4 x 5/8-11	45	265	154
		364/365 TC	665	450	317.5	279.4	52	4	4 x 5/8-11	45	280	184
		404/405 TC	679	550	317.5	279.4	70	6	4 x 5/8-11	45	330	198
		444/445 TC	711	550	406.4	355.6	102	6	4 x 5/8-11	45	330	230
		447/449 TC	706	660	406.4	355.6	67	6	4 x 5/8-11	45	330	225



SK 11407 - SK 11507

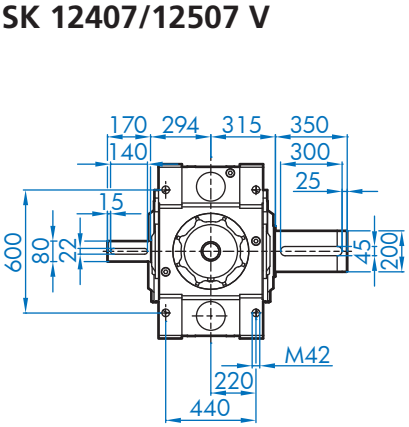


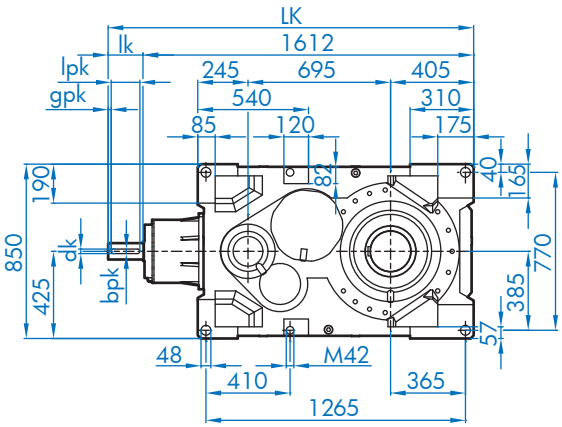
			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 11407	IEC	160	684	350	250	300	15	6.5	4 x 17.5	45	228	120 / 150
		180	684	350	250	300	15	6.5	4 x 17.5	45	228	120 / 150
		200	684	400	300	350	17	6.5	4 x 17.5	45	276	120 / 150
		225	714	450	350	400	18	6.5	8 x 17.5	22.5	290	150 / 180
		250	714	550	450	500	22	8	8 x M16	22.5	340	150 / 180
		280	714	550	450	500	22	8	8 x M16	22.5	340	150 / 180
		315	744	660	550	600	22	8	8 x 22	22.5	340	180 / 210
	TN [2]	315T	744	800	680	740	25	8	8 x 22	22.5	340	180 / 210
		355T	744	900	780	840	25	8	8 x 22	22.5	340	180 / 210
SK 11507	IEC	160	601	350	250	300	15	6.5	4 x 17.5	45	228	120
		180	601	350	250	300	15	6.5	4 x 17.5	45	228	120
		200	601	400	300	350	17	6.5	4 x 17.5	45	276	120
		225	631	450	350	400	18	6.5	8 x 17.5	22.5	290	150
		250	631	550	450	500	22	8	8 x M16	22.5	340	150
		280	631	550	450	500	22	8	8 x M16	22.5	340	150
		315	661	660	550	600	22	8	8 x 22	22.5	340	180
	TN [2]	315T	661	800	680	740	25	8	8 x 22	22.5	340	180
		355T	661	900	780	840	25	8	8 x 22	22.5	340	180

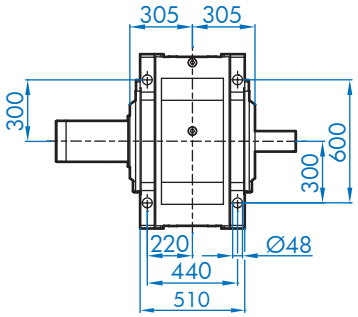
[1] Type designation and dimensions up to 200kW correspond to NORD motors
[2] Data for Transnorm motors available on request

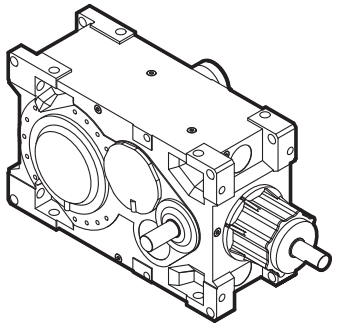
Right-Angle Drives
SK 12407 V
SK 12507 V

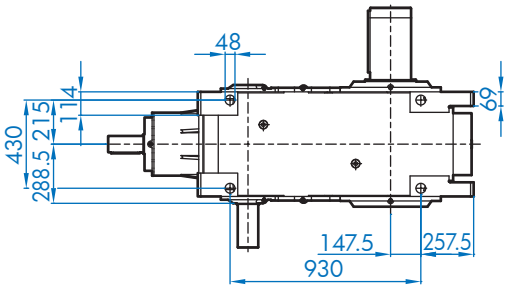
SK 12407/12507 V

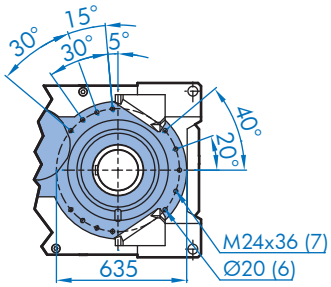




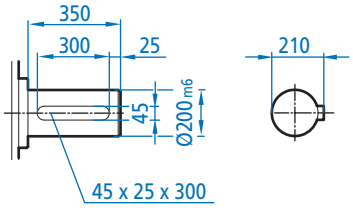




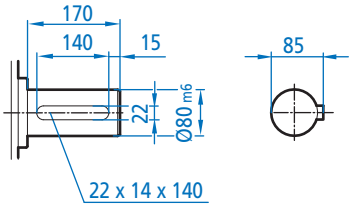




SK 12407/12507 V - Output Shaft Detail



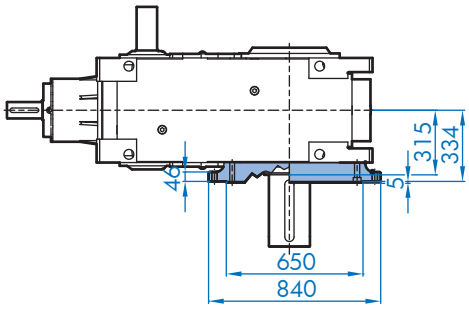
SK 12407/12507 V - Input Shaft Detail



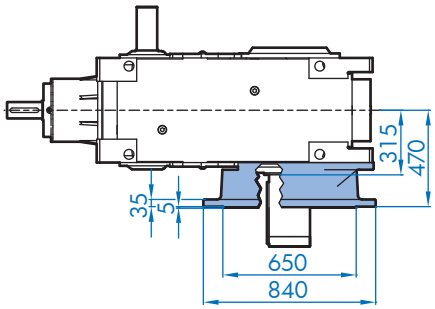
Bevel Input	Ratio	LK	Ødk	lk	lpk	bpk	gpk
SK 12407	12.6 - 45	1782	80	170	140	22	15
	50 - 71	1752	70	140	125	20	7.5
SK 12507	80 - 400	1634	50	110	90	14	10

Right-Angle Drives
SK 12407 VF
SK 12507 VF

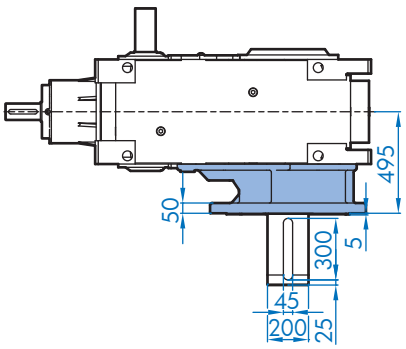
SK 12407/12507 VF

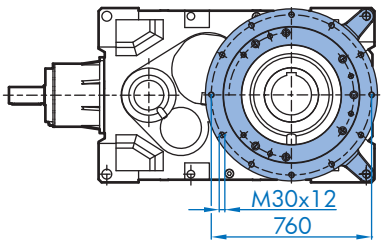


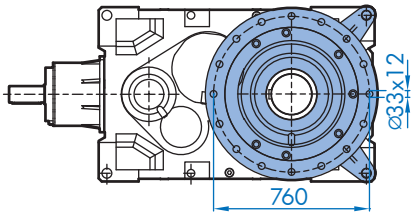
SK 12407/12507 VFK

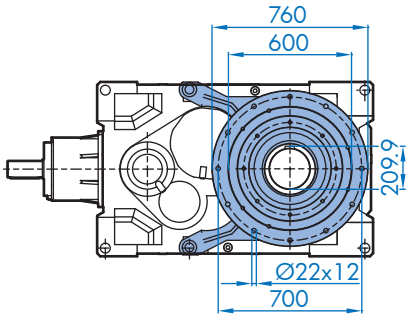


SK 12407/12507 VL2/VL3

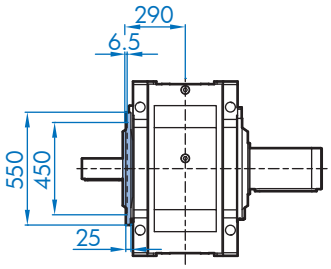


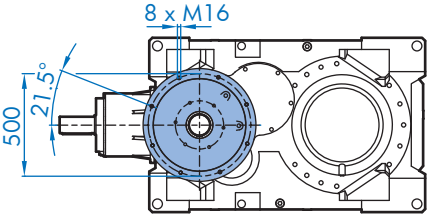




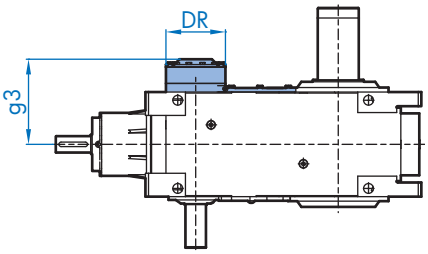


SK 12407/12507 F1 - Input Flange



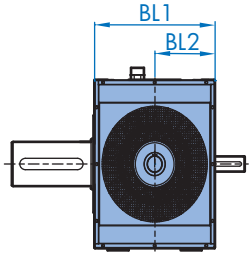


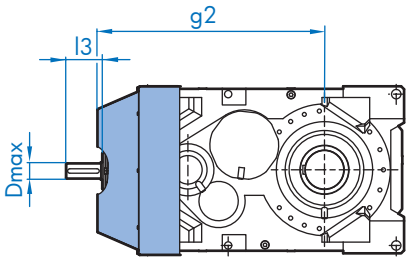
SK 12407/12507 R - Backstop



R	iN	DR	g3
SK12407	12.6-71	290	415
SK12507	80-400	210	385

SK 12407/12507 FAN

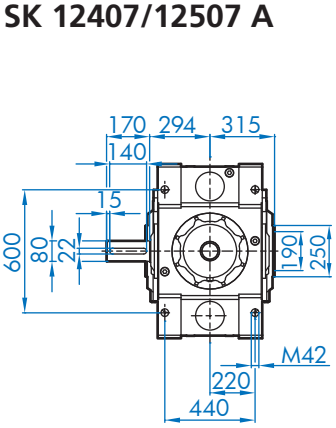


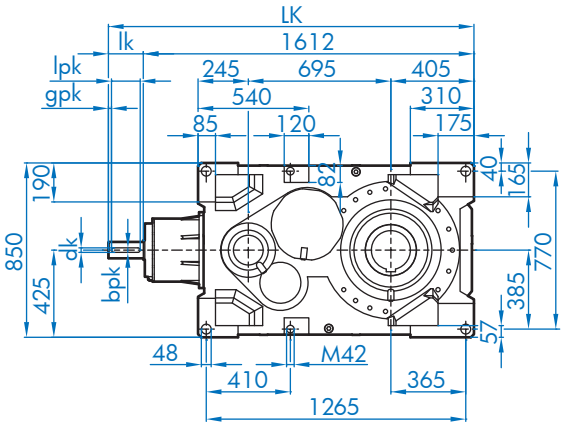


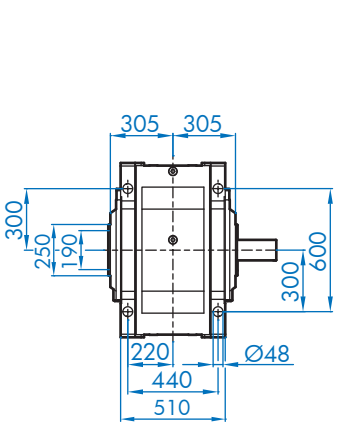
FAN	iN	B1	B2	g2	l3	Dmax
SK12407	12.6-45	654	327	1280	135	Ø220
	50-71	654	327	1280	105	Ø220
SK12507	80-400	654	327	1190	75	Ø220

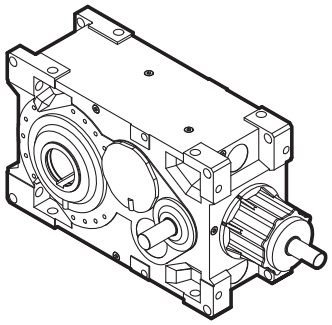
Right-Angle Drives
SK 12407 A
SK 12507 A

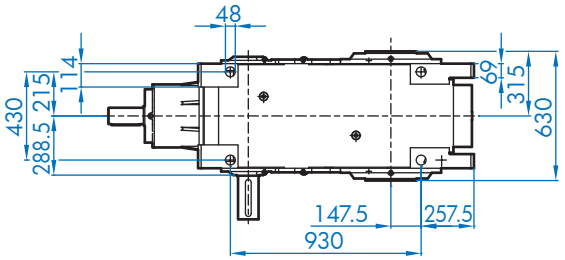
SK 12407/12507 A

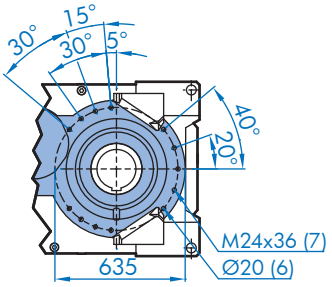




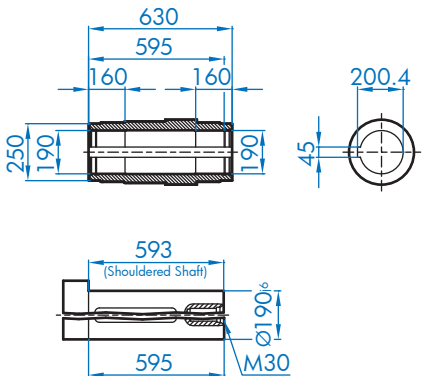






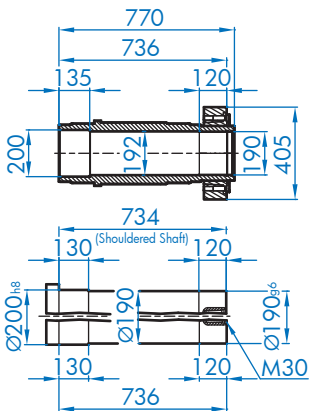


SK 12407/12507 A



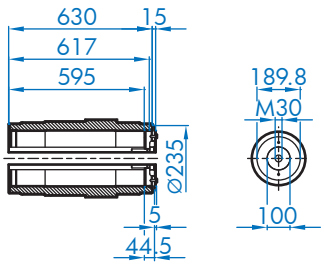
customer shaft recommendation

SK 12407/12507 AS



customer shaft recommendation

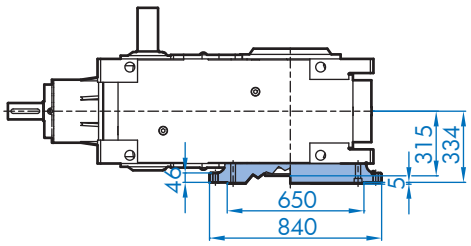
SK 12407/12507 - AB



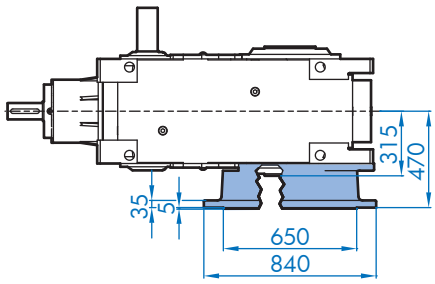
Bevel Input	Ratio	LK	Ødk	lk	lpk	bpk	gpk
SK 12407	12.6 - 45	1782	80	170	140	22	15
	50 - 71	1752	70	140	125	20	7.5
SK 12507	80 - 400	1634	50	110	90	14	10

Right-Angle Drives
SK 12407 AF
SK 12507 AF

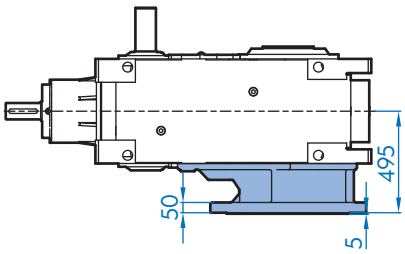
SK 12407/12507 AF

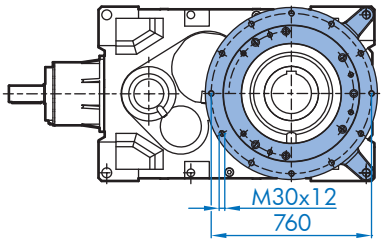


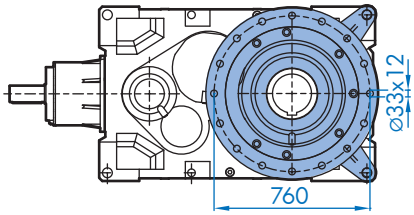
SK 12407/12507 AFK

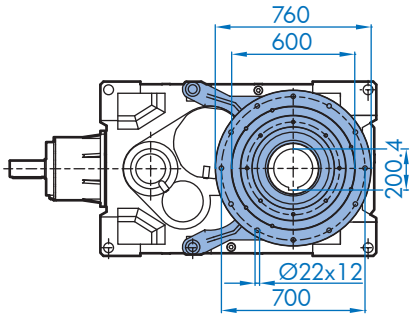


SK 12407/12507 VL2/VL3

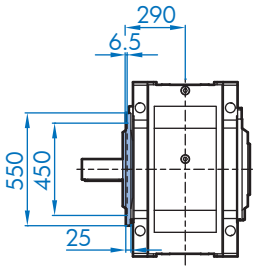


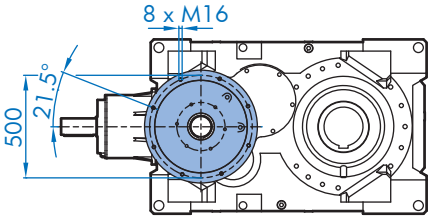




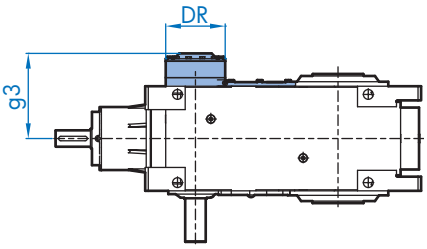


SK 12407/12507 F1 - Input Flange



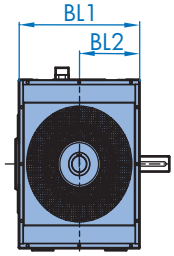


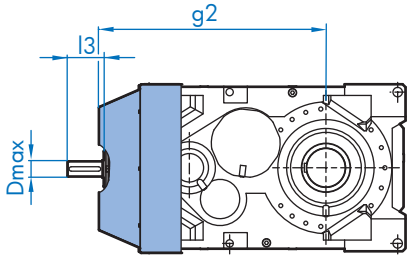
SK 12407/12507 R - Backstop



R	iN	DR	g3
SK12407	12.6-71	290	415
SK12507	80-400	210	385

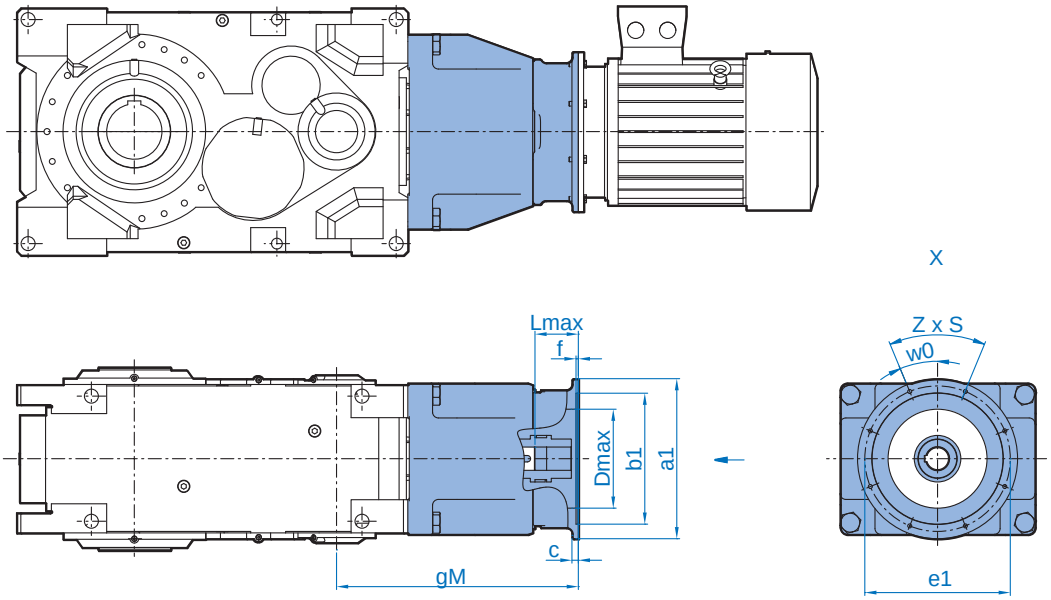
SK 12407/12507 FAN





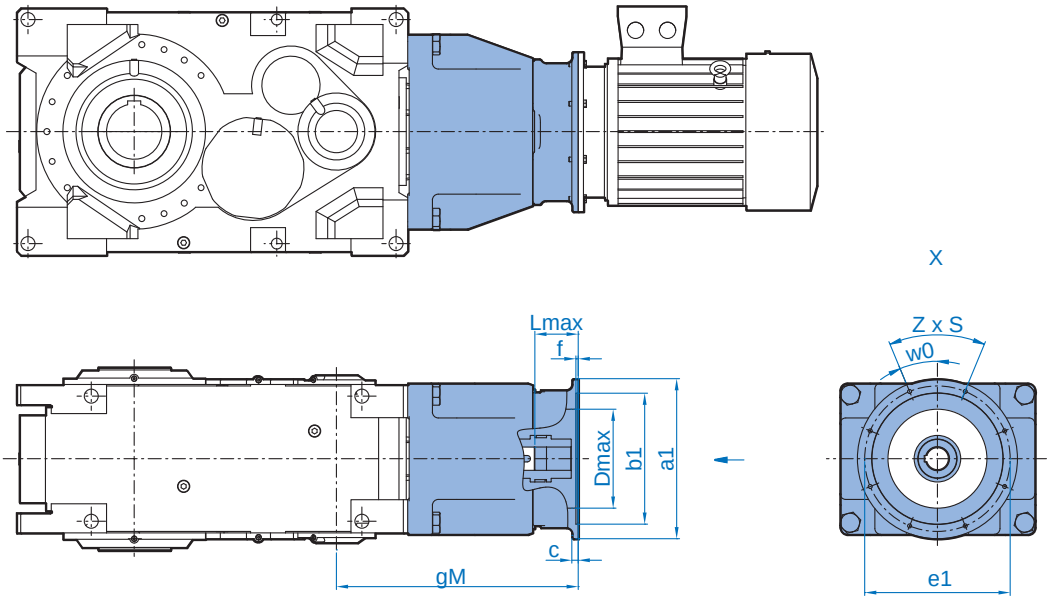
FAN	iN	B1	B2	g2	l3	Dmax
SK12407	12.6-45	654	327	1280	135	Ø220
	50-71	654	327	1280	105	Ø220
SK12507	80-400	654	327	1190	75	Ø220

SK 12407 - SK 12507



			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 12407	NEMA	254/256 TC	824	350	215.9	184.15	38	4	4 x 1/2-13	45	220	142 / 172
		284/286 TC	824	350	266.7	228.6	38	4	4 x 1/2-13	45	220	172 / 172
		324/326 TC	835	400	317.5	279.4	51	4	4 x 5/8-11	45	265	153 / 183
		364/365 TC	865	450	317.5	279.4	52	4	4 x 5/8-11	45	280	183 / 213
		404/405 TC	879	550	317.5	279.4	70	6	4 x 5/8-11	45	330	197 / 227
		444/445 TC	911	550	406.4	355.6	102	6	4 x 5/8-11	45	330	229 / 259
		447/449 TC	906	660	406.4	355.6	67	6	4 x 5/8-11	45	330	224 / 254
SK 12507	NEMA	254/256 TC	673	350	215.9	184.15	38	4	4 x 1/2-13	45	220	139
		284/286 TC	673	350	266.7	228.6	38	4	4 x 1/2-13	45	220	139
		324/326 TC	684	400	317.5	279.4	51	4	4 x 5/8-11	45	265	150
		364/365 TC	714	450	317.5	279.4	52	4	4 x 5/8-11	45	280	180
		404/405 TC	728	550	317.5	279.4	70	6	4 x 5/8-11	45	330	194
		444/445 TC	760	550	406.4	355.6	102	6	4 x 5/8-11	45	330	226
		447/449 TC	755	660	406.4	355.6	67	6	4 x 5/8-11	45	330	221

SK 12407 - SK 12507



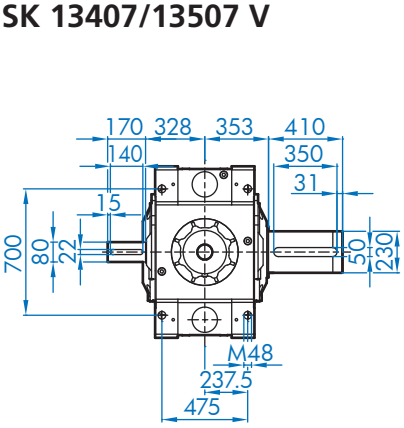
			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 12407	IEC	160	801	350	250	300	15	6.5	4 x 17.5	45	228	119 / 149
		180	801	350	250	300	15	6.5	4 x 17.5	45	228	119 / 149
		200	801	400	300	350	17	6.5	4 x 17.5	45	276	119 / 149
		225	831	450	350	400	18	6.5	8 x 17.5	22.5	290	149 / 179
		250	831	550	450	500	22	8	8 x M16	22.5	340	149 / 179
		280	831	550	450	500	22	8	8 x M16	22.5	340	149 / 179
		315	861	660	550	600	22	8	8 x 22	22.5	340	179 / 209
	TN [2]	315T	861	800	680	740	25	8	8 x 22	22.5	340	179 / 209
		355T	861	900	780	840	25	8	8 x 22	22.5	340	179 / 209
SK 12507	IEC	160	650	350	250	300	15	6.5	4 x 17.5	45	228	116
		180	650	350	250	300	15	6.5	4 x 17.5	45	228	116
		200	650	400	300	350	17	6.5	4 x 17.5	45	276	116
		225	680	450	350	400	18	6.5	8 x 17.5	22.5	290	146
		250	680	550	450	500	22	8	8 x M16	22.5	340	146
		280	680	550	450	500	22	8	8 x M16	22.5	340	146
		315	710	660	550	600	22	8	8 x 22	22.5	340	176
	TN [2]	315T	710	800	680	740	25	8	8 x 22	22.5	340	176
		355T	710	900	780	840	25	8	8 x 22	22.5	340	176

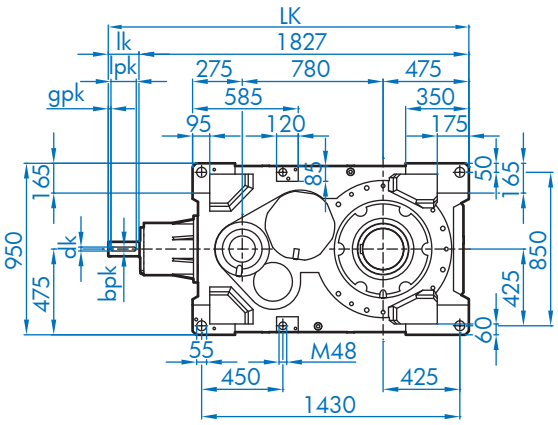
[1] Type designation and dimensions up to 200kW correspond to NORD motors

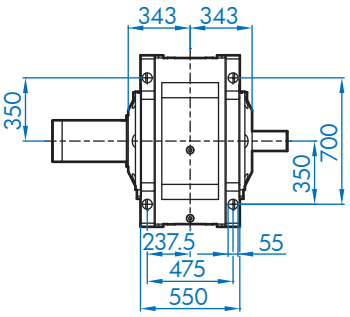
[2] Data for Transnorm motors available on request

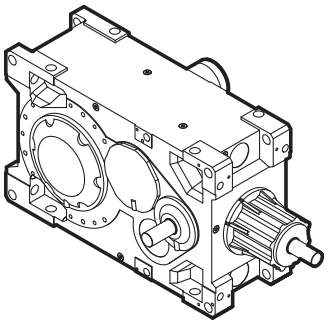
Right-Angle Drives
SK 13407 V
SK 13507 V

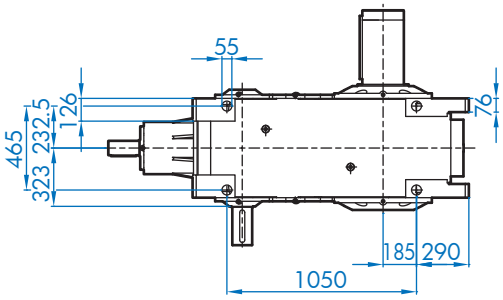
SK 13407/13507 V

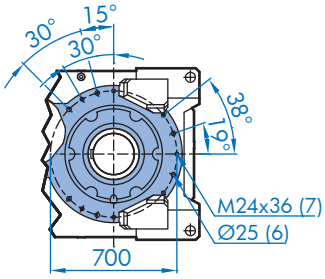




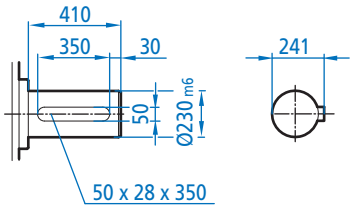




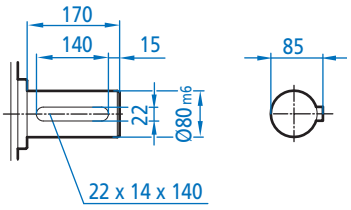




SK 13407/13507 V - Output Shaft Detail



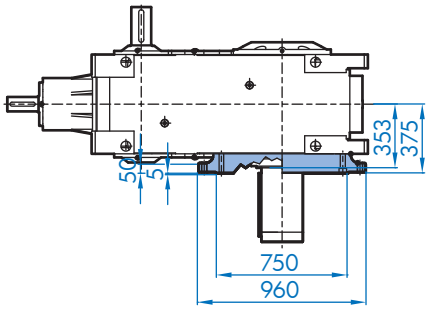
SK 13407/13507 V - Input Shaft Detail



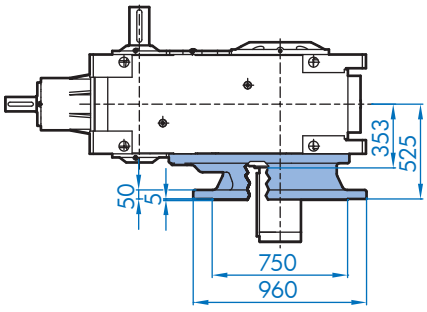
Bevel Input	Ratio	LK	Ødk	lk	lpk	bpk	gpk
SK 13407	12.6 - 45	1997	80	170	140	22	15
	50 - 71	1967	70	140	125	20	7.5
SK 13507	80 - 400	1907	70	140	125	20	7.5

Right-Angle Drives
SK 13407 VF
SK 13507 VF

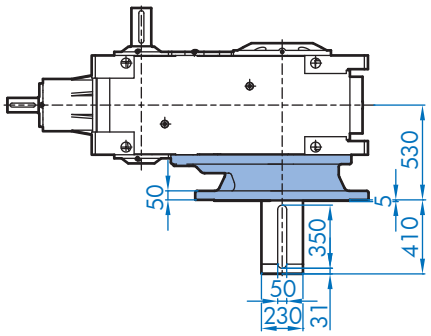
SK 13407/13507 VF

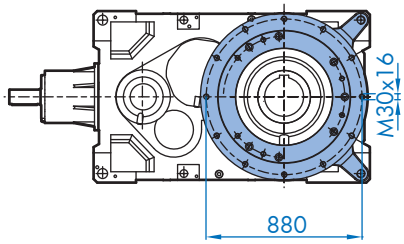


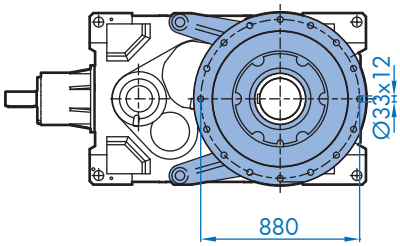
SK 13407/13507 VFK

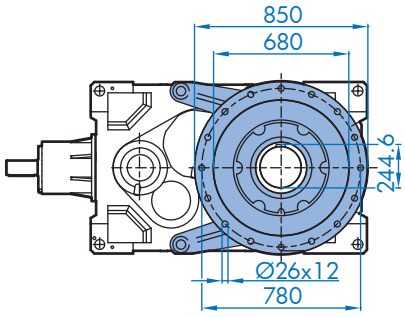


SK 13407/13507 VL2/VL3

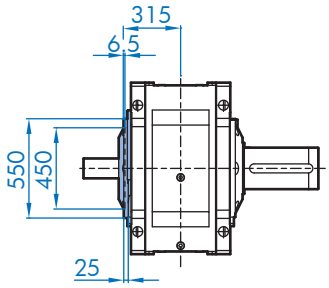


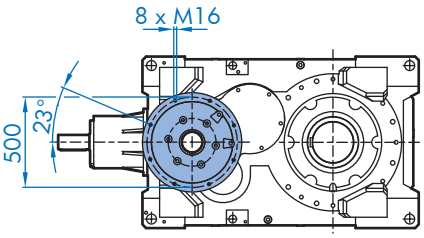




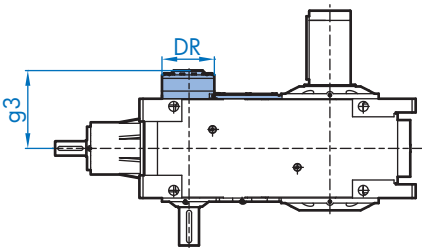


SK 13407/13507 F1 - Input Flange

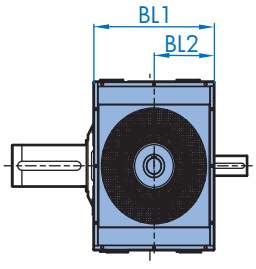


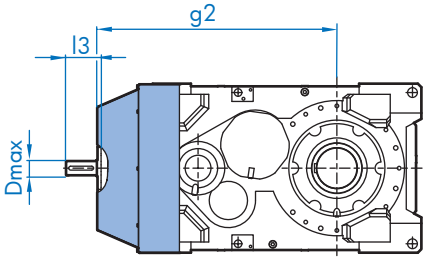


SK 13407/13507 R - Backstop



SK 13407/13507 FAN





R	iN	DR	g3
SK13407	12.6-71	290	431
SK13507	80-400	210	416.5

FAN	iN	B1	B2	g2	l3	Dmax
SK13407	12.6-45	704	352	1425	135	Ø240
	50-71	704	352	1425	105	Ø240
SK13507	80-400	704	352	1365	105	Ø240

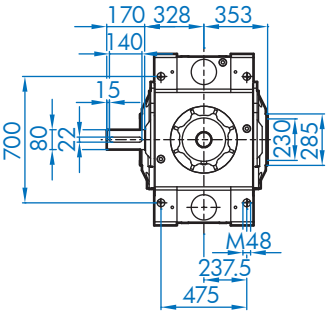
Right-Angle Drives
SK 13407 A
SK 13507 A

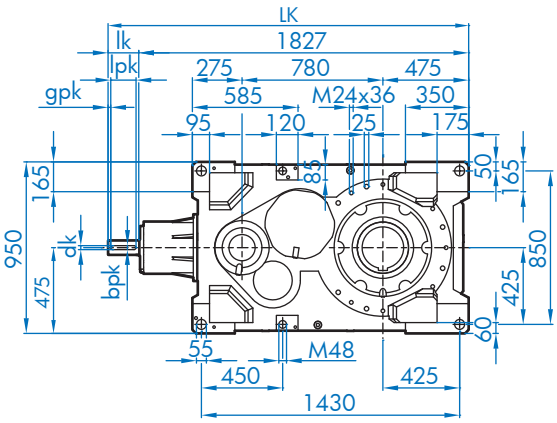
DRIVESYSTEMS

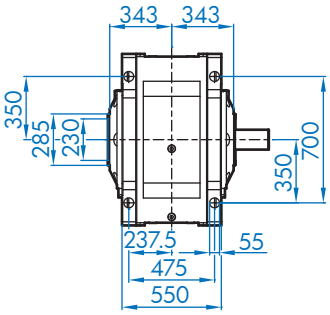
DIMENSIONS

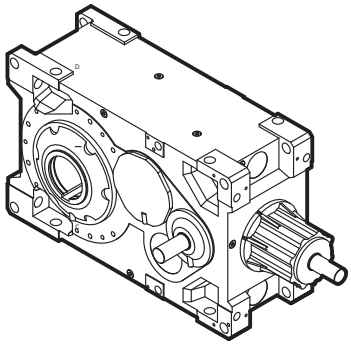
Dimensions in mm

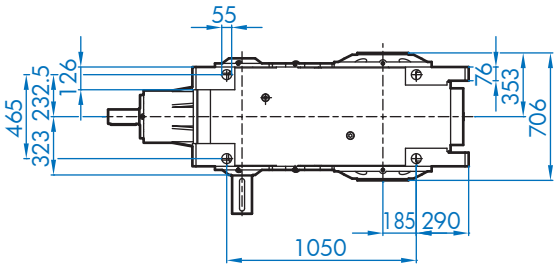
SK 13407/13507 A

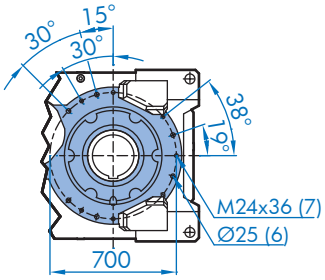




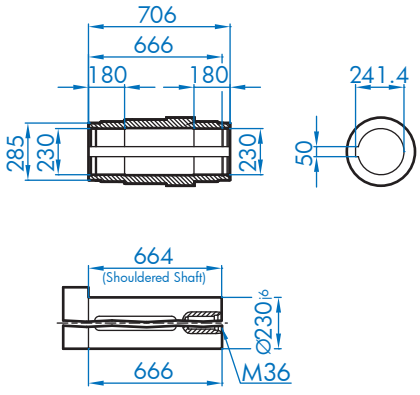






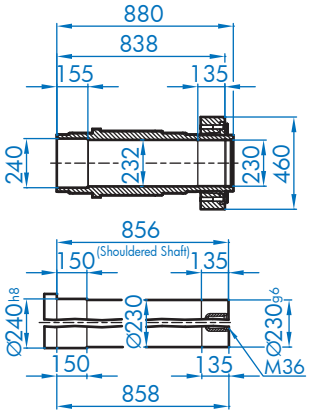


SK 13407/13507 A



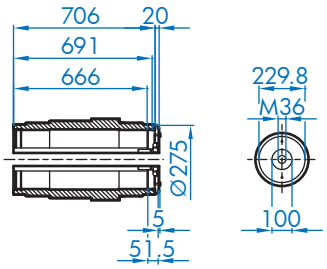
customer shaft recommendation

SK 13407/13507 AS



customer shaft recommendation

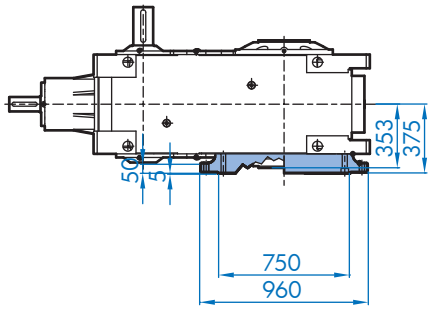
SK 13407/13507 - AB



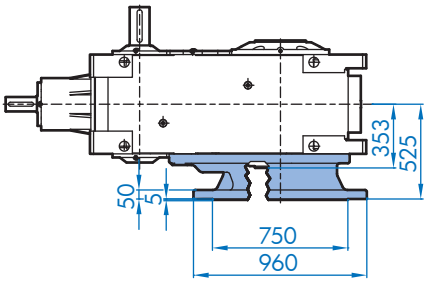
Bevel Input	Ratio	LK	Ødk	lk	lpk	bpk	gpk
SK 13407	12.6 - 45	1997	80	170	140	22	15
	50 - 71	1967	70	140	125	20	7.5
SK 13507	80 - 400	1907	70	140	125	20	7.5

Right-Angle Drives
SK 13407 AF
SK 13507 AF

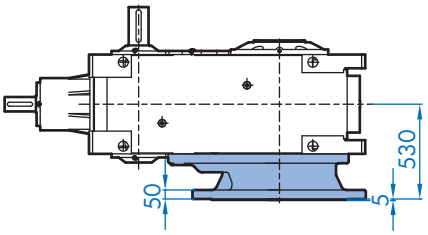
SK 13407/13507 AF

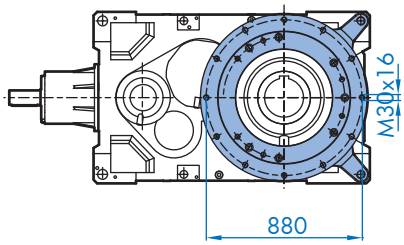


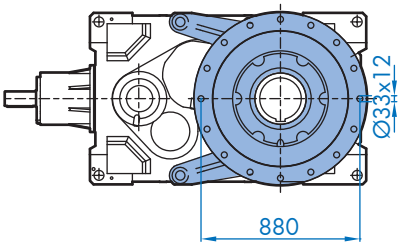
SK 13407/13507 AFK

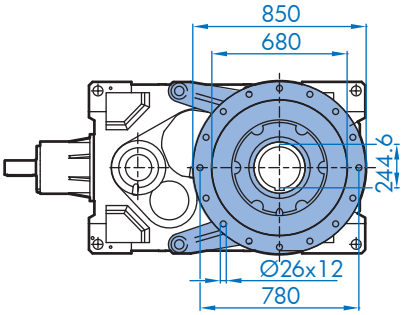


SK 13407/13507 VL2/VL3

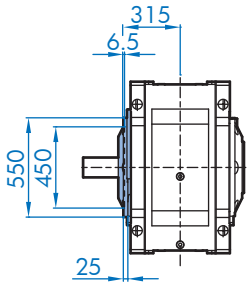


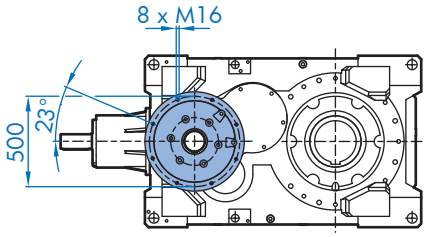




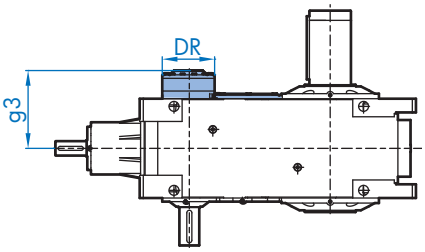


SK 13407/13507 F1 - Input Flange

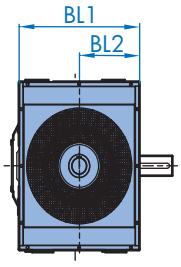


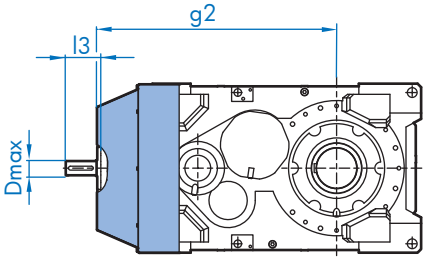


SK 13407/13507 R - Backstop



SK 13407/13507 FAN

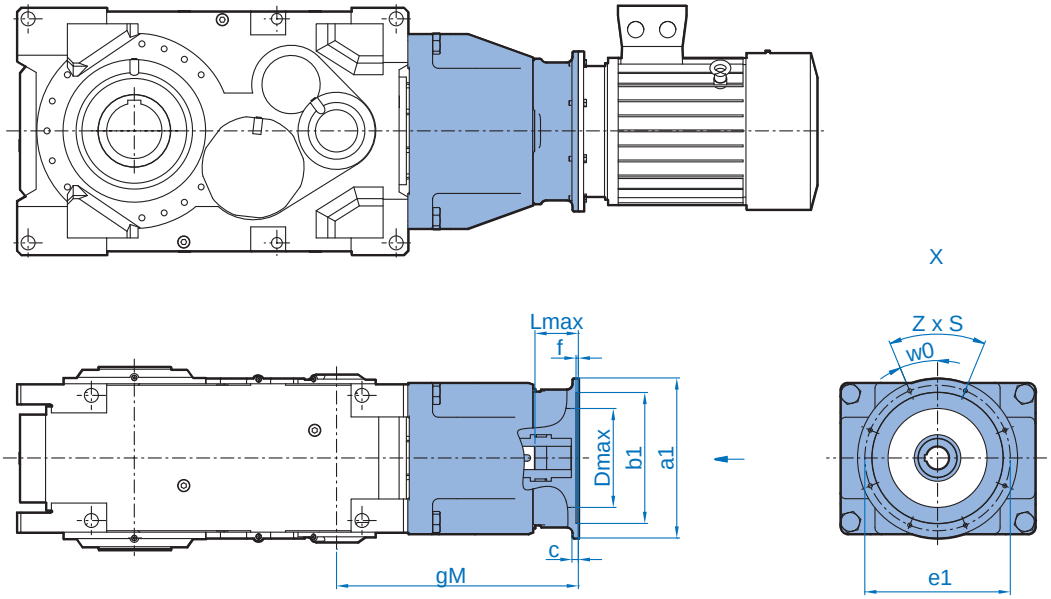




R	iN	DR	g3
SK13407	12.6-71	290	431
SK13507	80-400	210	416.5

FAN	iN	B1	B2	g2	l3	Dmax
SK13407	12.6-45	704	352	1425	135	Ø240
	50-71	704	352	1425	105	Ø240
SK13507	80-400	704	352	1365	105	Ø240

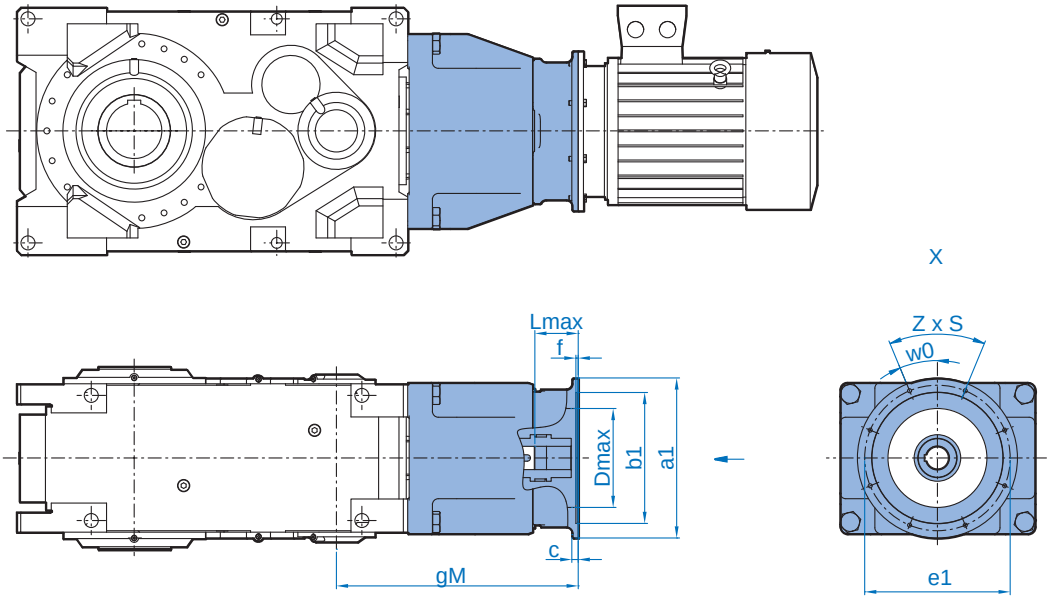
SK 13407 - SK 13507



			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 13407	NEMA	254/256 TC	885	350	215.9	184.15	38	4	4 x 1/2-13	45	220	143 / 173
		284/286 TC	885	350	266.7	228.6	38	4	4 x 1/2-13	45	220	143 / 173
		324/326 TC	896	400	317.5	279.4	51	4	4 x 5/8-11	45	265	154 / 184
		364/365 TC	926	450	317.5	279.4	52	4	4 x 5/8-11	45	280	184 / 214
		404/405 TC	940	550	317.5	279.4	70	6	4 x 5/8-11	45	330	198 / 228
		444/445 TC	972	550	406.4	355.6	102	6	4 x 5/8-11	45	330	230 / 260
		447/449 TC	967	660	406.4	355.6	67	6	4 x 5/8-11	45	330	225 / 255
SK 13507	NEMA	254/256 TC	794	350	215.9	184.15	38	4	4 x 1/2-13	45	220	142
		284/286 TC	794	350	266.7	228.6	38	4	4 x 1/2-13	45	220	142
		324/326 TC	805	400	317.5	279.4	51	4	4 x 5/8-11	45	265	153
		364/365 TC	835	450	317.5	279.4	52	4	4 x 5/8-11	45	280	183
		404/405 TC	849	550	317.5	279.4	70	6	4 x 5/8-11	45	330	197
		444/445 TC	881	550	406.4	355.6	102	6	4 x 5/8-11	45	330	229
		447/449 TC	876	660	406.4	355.6	67	6	4 x 5/8-11	45	330	224

Right-Angle Drives
SK 13407/13507 (IEC)

SK 13407 - SK 13507



			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 13407	IEC	160	862	350	250	300	15	6.5	4 x 17.5	45	228	120 / 150
		180	862	350	250	300	15	6.5	4 x 17.5	45	228	120 / 150
		200	862	400	300	350	17	6.5	4 x 17.5	45	276	120 / 150
		225	892	450	350	400	18	6.5	8 x 17.5	22.5	290	150 / 180
		250	892	550	450	500	22	8	8 x M16	22.5	340	150 / 180
		280	892	550	450	500	22	8	8 x M16	22.5	340	150 / 180
		315	922	660	550	600	22	8	8 x 22	22.5	340	180 / 210
	TN [2]	315T	922	800	680	740	25	8	8 x 22	22.5	340	180 / 210
		355T	922	900	780	840	25	8	8 x 22	22.5	340	180 / 210
SK 13507	IEC	160	771	350	250	300	15	6.5	4 x 17.5	45	228	119
		180	771	350	250	300	15	6.5	4 x 17.5	45	228	119
		200	771	400	300	350	17	6.5	4 x 17.5	45	276	119
		225	801	450	350	400	18	6.5	8 x 17.5	22.5	290	149
		250	801	550	450	500	22	8	8 x M16	22.5	340	149
		280	801	550	450	500	22	8	8 x M16	22.5	340	149
		315	831	660	550	600	22	8	8 x 22	22.5	340	179
	TN [2]	315T	831	800	680	740	25	8	8 x 22	22.5	340	179
		355T	831	900	780	840	25	8	8 x 22	22.5	340	179

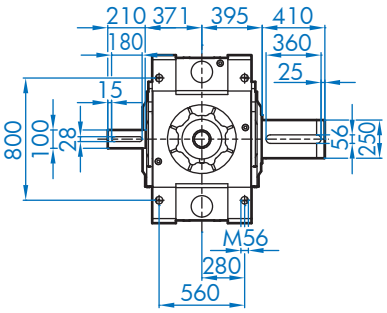
[1] Type designation and dimensions up to 200kW correspond to NORD motors

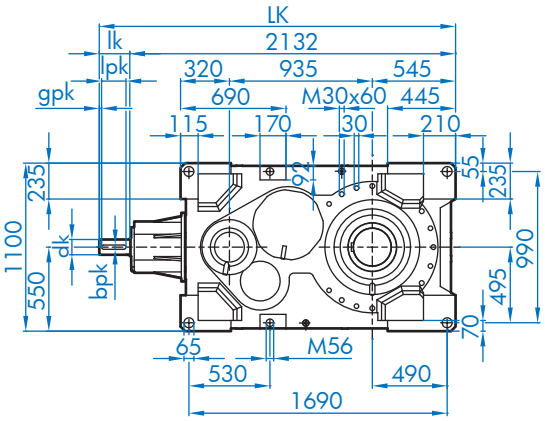
[2] Data for Transnorm motors available on request

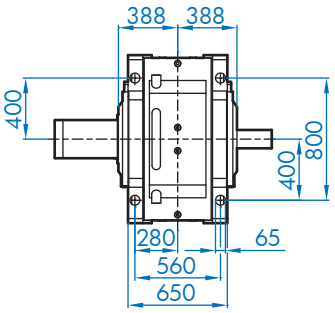
Right-Angle Drives
SK 15407 V
SK 15507 V

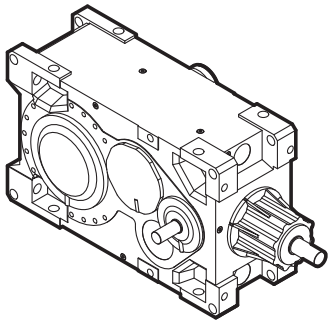
DRIVESYSTEMS

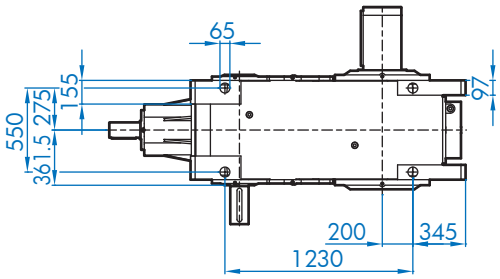
SK 15407/15507 V

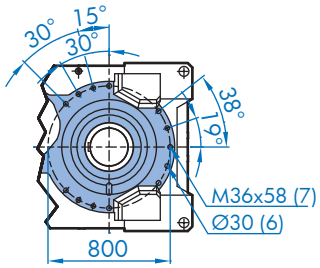




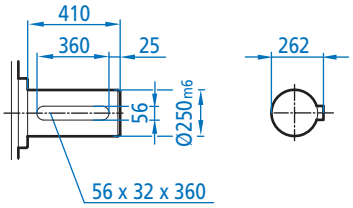




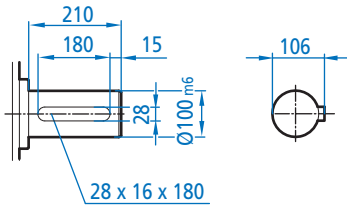




SK 15407/15507 V - Output Shaft Detail



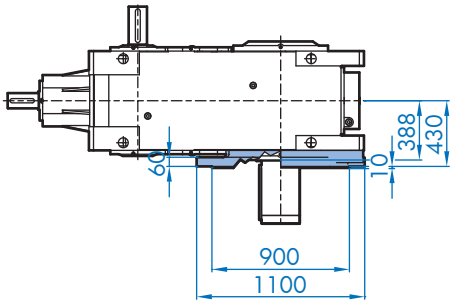
SK 15407/15507 V - Input Shaft Detail

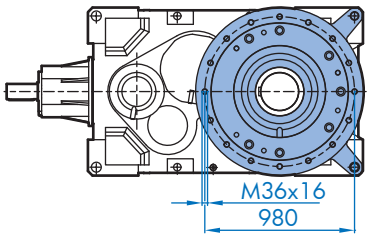


Bevel Input	Ratio	LK	Ødk	lk	lpk	bpk	gpk
SK 15407	12.6 - 45	2332	100	200	180	28	15
	50 - 71	2302	80	170	140	22	15
SK 15507	80 - 400	2192	70	140	125	20	7.5

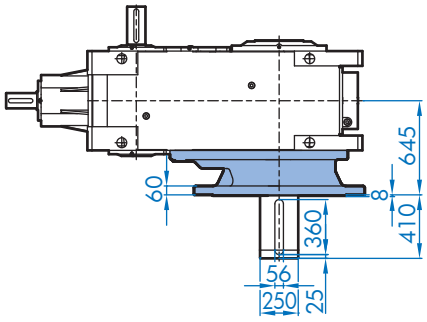
Right-Angle Drives
SK 15407 VF
SK 15507 VF

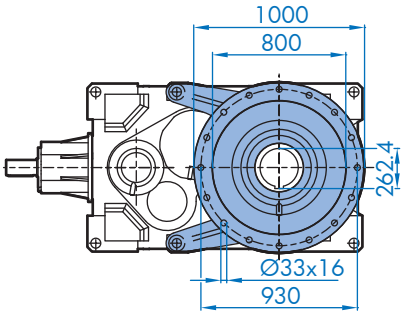
SK 15407/15507 VF



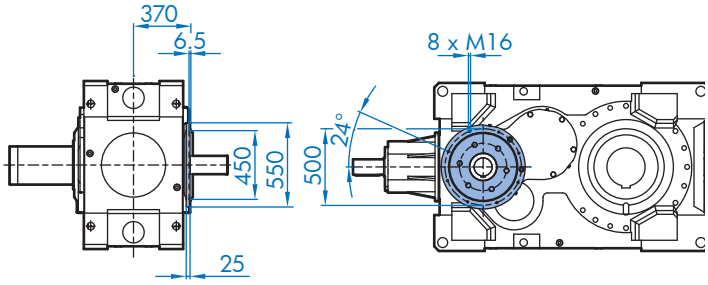


SK 15407/15507 VL2/VL3

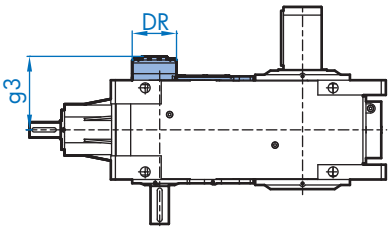




SK 15407/15507 F1 - Input Flange

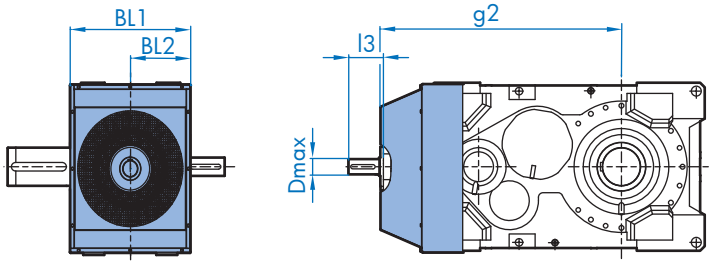


SK 15407/15507 R - Backstop



R	iN	DR	g3
SK15407	12.6-71	400	510
SK15507	80-400	290	485

SK 15407/15507 FAN

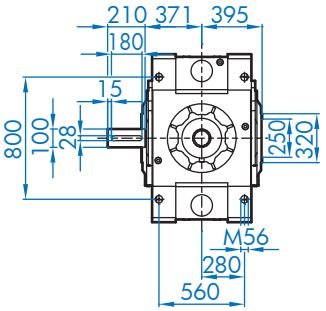


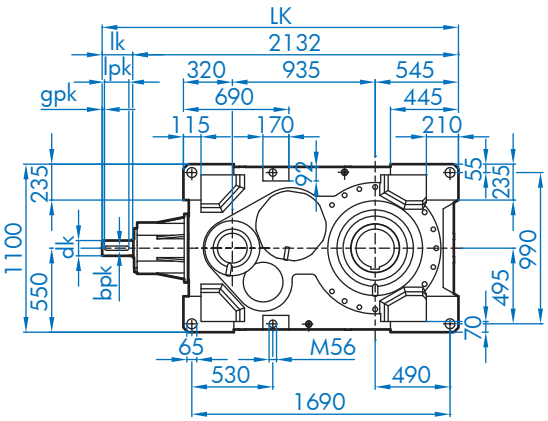
FAN	iN	B1	B2	g2	l3	Dmax
SK15407	12.6-45	814	407	1665	160	Ø250
	50-71	814	407	1665	130	Ø250
SK15507	80-400	814	407	1585	100	Ø250

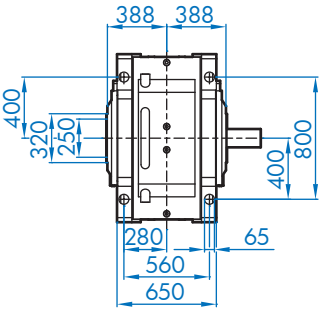
Right-Angle Drives
SK 15407 A
SK 15507 A

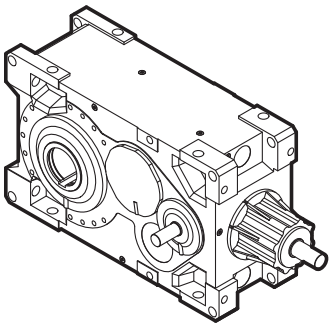
DRIVESYSTEMS

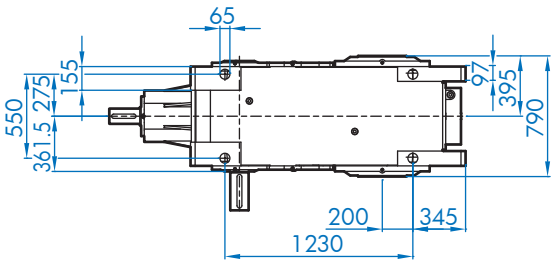
SK 15407/15507 A

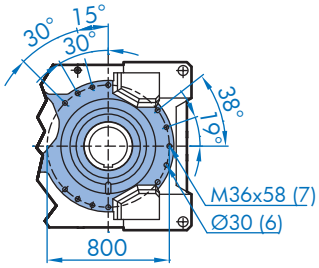




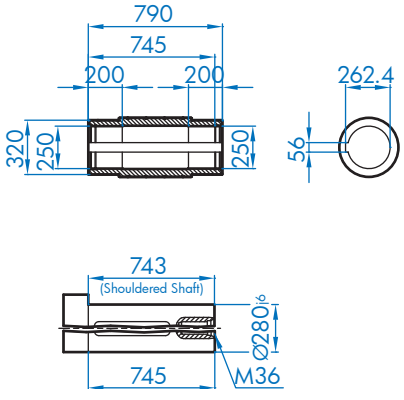






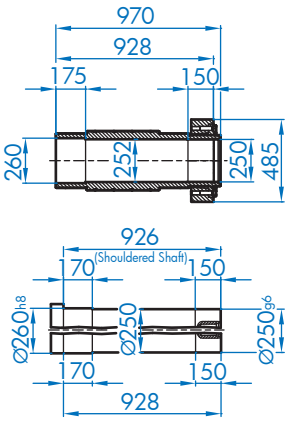


SK 15407/15507 A



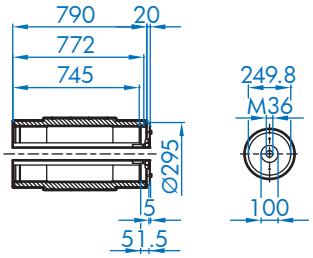
customer shaft recommendation

SK 15407/15507 AS



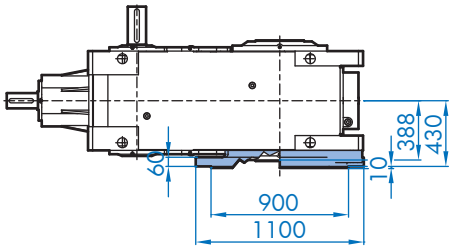
customer shaft recommendation

SK 15407/15507 - AB

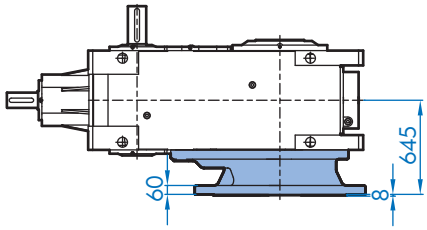


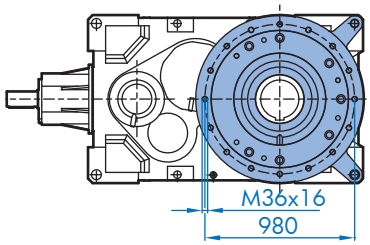
Bevel Input	Ratio	LK	Ødk	lk	lpk	bpk	gpk
SK 15407	12.6 - 45	2332	100	200	180	28	15
	50 - 71	2302	80	170	140	22	15
SK 15507	80 - 400	2192	70	140	125	20	7.5

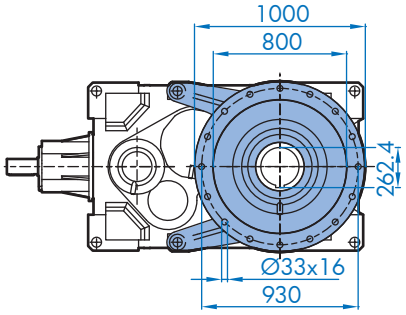
SK 15407/15507 AF



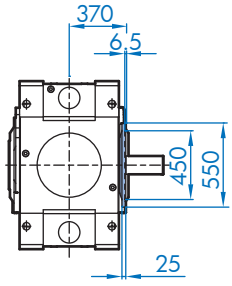
SK 15407/15507 VL2/VL3

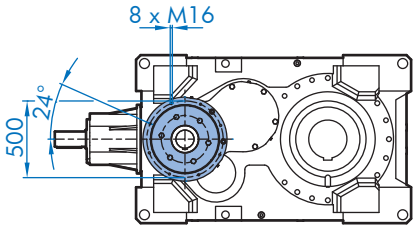




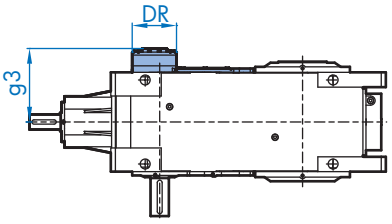


SK 15407/15507 F1 - Input Flange

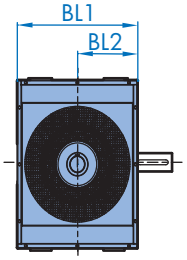


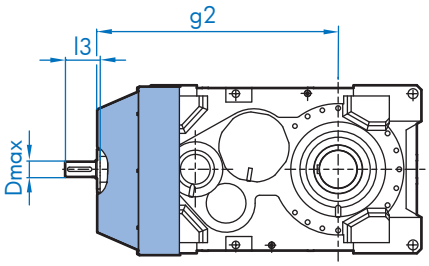


SK 15407/15507 R - Backstop



SK 15407/15507 FAN



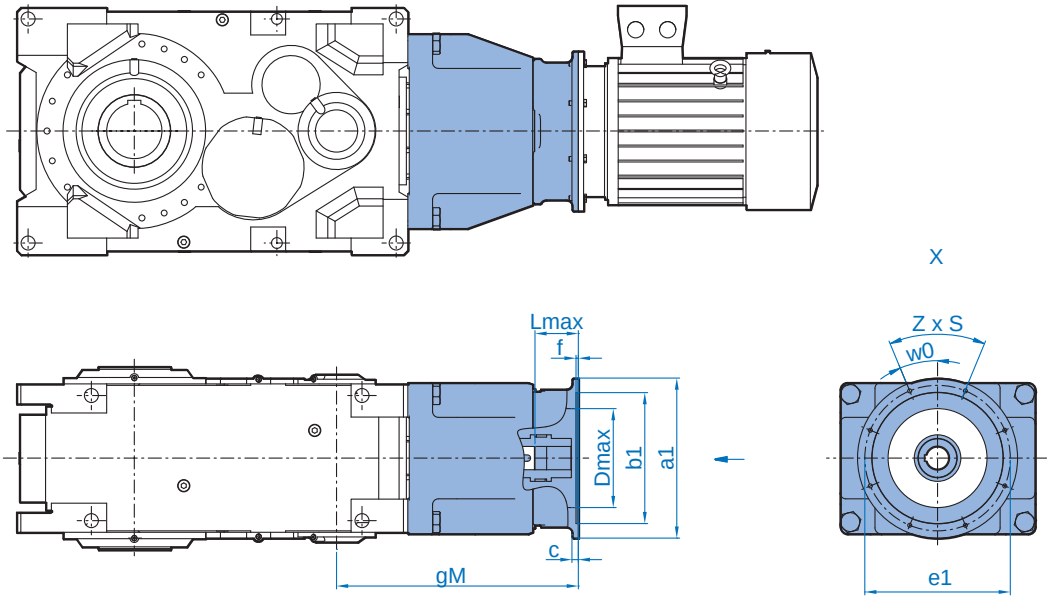


R	iN	DR	g3
SK15407	12.6-71	400	510
SK15507	80-400	290	485

FAN	iN	B1	B2	g2	l3	Dmax
SK15407	12.6-45	814	407	1665	160	Ø250
	50-71	814	407	1665	130	Ø250
SK15507	80-400	814	407	1585	100	Ø250

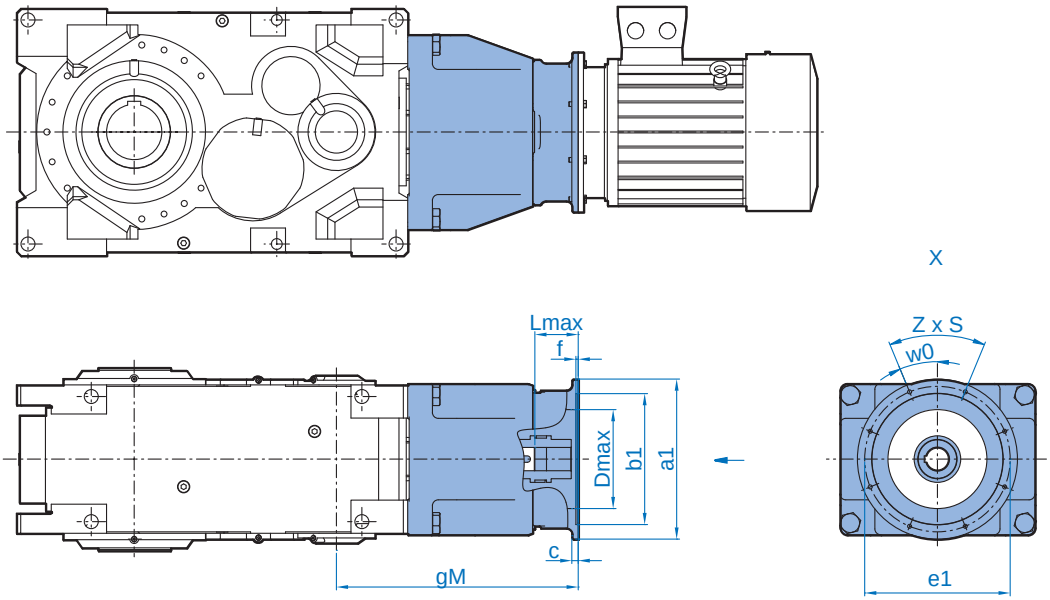
Right-Angle Drives
SK 15407/15507 (NEMA)

SK 15407 - SK 15507



			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 15407	NEMA	254/256 TC	995	350	215.9	184.15	38	4	4 x 1/2-13	45	220	143 / 173
		284/286 TC	995	350	266.7	228.6	38	4	4 x 1/2-13	45	220	143 / 173
		324/326 TC	1006	400	317.5	279.4	51	4	4 x 5/8-11	45	265	154 / 184
		364/365 TC	1036	450	317.5	279.4	52	4	4 x 5/8-11	45	280	184 / 214
		404/405 TC	1050	550	317.5	279.4	70	6	4 x 5/8-11	45	330	198 / 228
		444/445 TC	1082	550	406.4	355.6	102	6	4 x 5/8-11	45	330	230 / 260
		447/449 TC	1077	660	406.4	355.6	67	6	4 x 5/8-11	45	330	225 / 255
SK 15507	NEMA	254/256 TC	855	350	215.9	184.15	38	4	4 x 1/2-13	45	220	143
		284/286 TC	855	350	266.7	228.6	38	4	4 x 1/2-13	45	220	143
		324/326 TC	866	400	317.5	279.4	51	4	4 x 5/8-11	45	265	154
		364/365 TC	896	450	317.5	279.4	52	4	4 x 5/8-11	45	280	184
		404/405 TC	910	550	317.5	279.4	70	6	4 x 5/8-11	45	330	198
		444/445 TC	942	550	406.4	355.6	102	6	4 x 5/8-11	45	330	230
		447/449 TC	937	660	406.4	355.6	67	6	4 x 5/8-11	45	330	225

SK 15407 - SK 15507



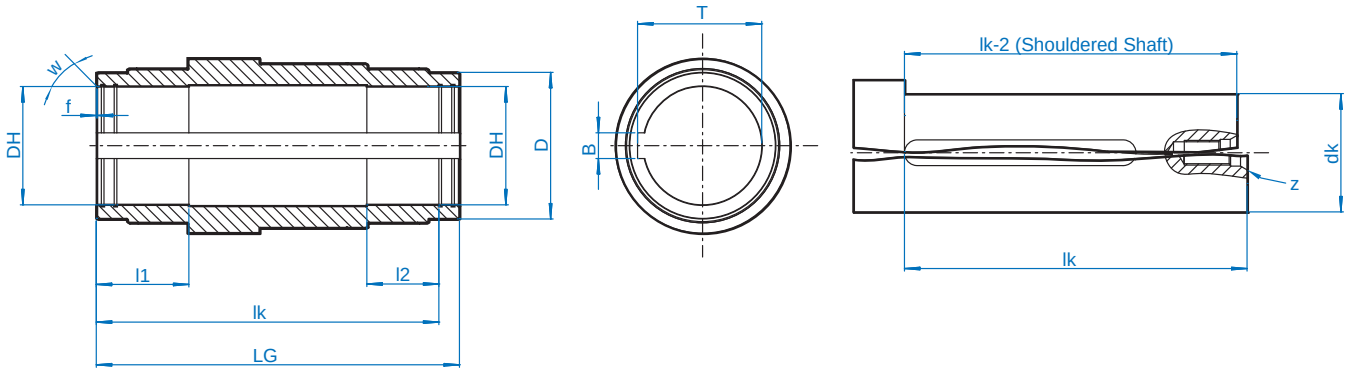
			gM	a1	b1	e1	c	f	z x s	w0	Dmax	Lmax
SK 15407	IEC	160	972	350	250	300	15	6.5	4 x 17.5	45	228	120 / 150
		180	972	350	250	300	15	6.5	4 x 17.5	45	228	120 / 150
		200	972	400	300	350	17	6.5	4 x 17.5	45	276	120 / 150
		225	1002	450	350	400	18	6.5	8 x 17.5	22.5	290	150 / 180
		250	1002	550	450	500	22	8	8 x M16	22.5	340	150 / 180
		280	1002	550	450	500	22	8	8 x M16	22.5	340	150 / 180
		315	1032	660	550	600	22	8	8 x 22	22.5	340	180 / 210
	TN [2]	315T	1032	800	680	740	25	8	8 x 22	22.5	340	180 / 210
		355T	1032	900	780	840	25	8	8 x 22	22.5	340	180 / 210
SK 15507	IEC	160	832	350	250	300	15	6.5	4 x 17.5	45	228	120
		180	832	350	250	300	15	6.5	4 x 17.5	45	228	120
		200	832	400	300	350	17	6.5	4 x 17.5	45	276	120
		225	862	450	350	400	18	6.5	8 x 17.5	22.5	290	150
		250	862	550	450	500	22	8	8 x M16	22.5	340	150
		280	862	550	450	500	22	8	8 x M16	22.5	340	150
		315	892	660	550	600	22	8	8 x 22	22.5	340	180
	TN [2]	315T	892	800	680	740	25	8	8 x 22	22.5	340	180
		355T	892	900	780	840	25	8	8 x 22	22.5	340	180

[1] Type designation and dimensions up to 200kW correspond to NORD motors

[2] Data for Transnorm motors available on request

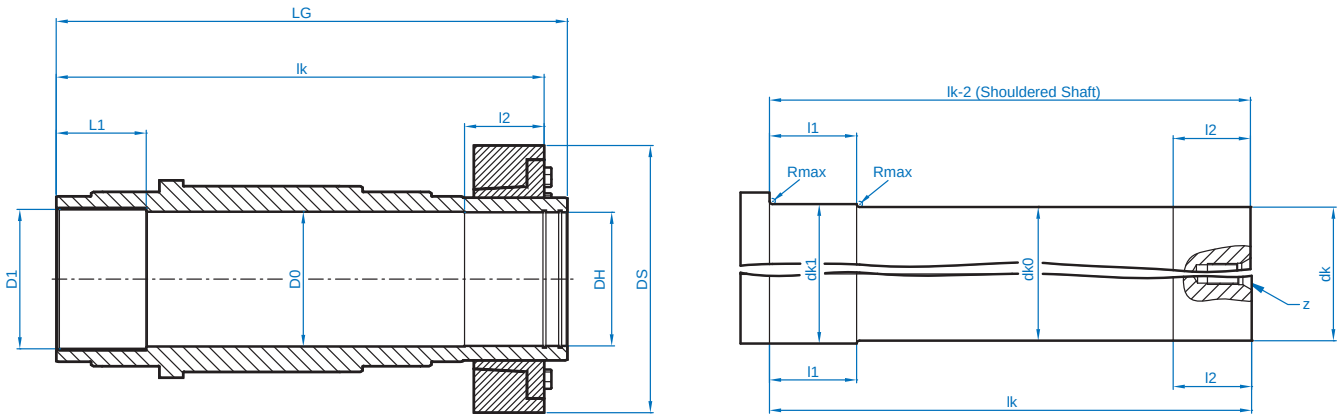
A - Keyed Hollow Shaft
AS - Shrink Disc with Hollow Shaft

A - Keyed Hollow Shaft & Customer Shaft Detail



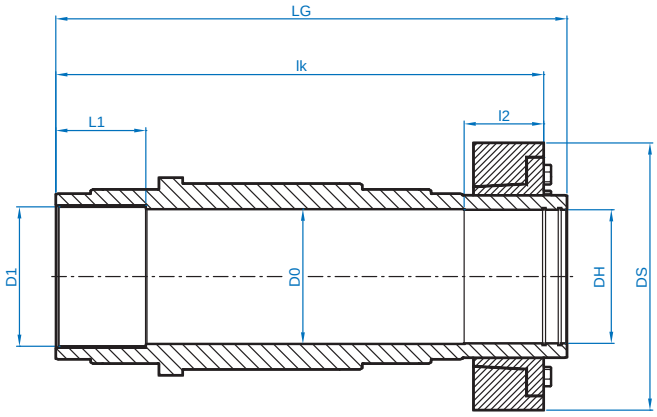
	DH	LG	dk	lk	lk2	l1	l2	D	f	w	B	T	z
SK 7..07	ø125 H7	394	ø125 h6	369	367	100	80	ø160	2	30	32	132.7	M24
SK 8..07	ø125 H7	394	ø125 h6	369	367	100	80	ø160	2	30	32	132.7	M24
SK 9..07	ø160 H7	506	ø160 h6	486	484	130	110	ø220	2	30	40	169.4	M30
SK 10..07	ø160 H7	506	ø160 h6	486	484	130	110	ø220	2	30	40	169.4	M30
SK 11..07	ø170 H7	560	ø170 h6	525	523	140	105	ø240	2	30	40	179.4	M30
SK 12..07	ø190 H7	630	ø190 h6	595	593	160	125	ø250	2	30	45	200.4	M30
SK 13..07	ø230 H7	706	ø230 h6	666	664	180	140	ø285	2	30	50	241.4	M36
SK 15..07	ø250 H7	790	ø250 h6	745	743	200	155	ø320	2	30	56	262.4	M36

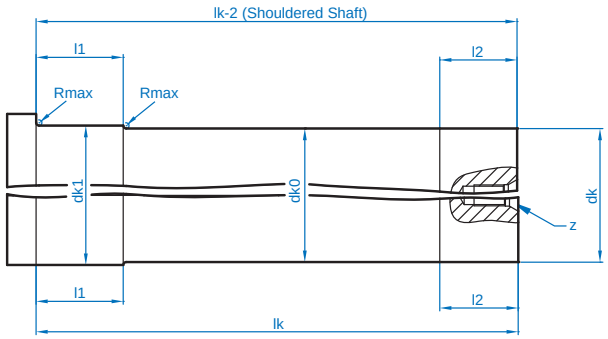
AS - Shrink Disc Hollow Shaft



	DH	D0	D1	L1	DS	LG	dk1	dk0	dk	lk	lk2	l1	l2	Rmax	z
SK 7..07	ø125 H7	ø125.5	ø125	90	ø300	733	ø125 h8	ø125	ø125 h6	713	711	100	65	3	M24
SK 8..07	ø125 H7	ø125.5	ø125	90	ø300	733	ø125 h8	ø125	ø125 h6	713	711	100	65	3	M24
SK 9..07	ø160 H7	ø160.5	ø160	110	ø320	889.5	ø160 h8	ø160	ø160 h6	854.5	852.5	110	82	3	M30
SK 10..07	ø160 H7	ø160.5	ø160	110	ø320	889.5	ø160 h8	ø160	ø160 h6	854.5	852.5	110	82	3	M30
SK 11..07	ø170 H7	ø172	ø180	125	ø370	690	ø180 h8	ø170	ø170 g6	658	656	125	105	5	M30
SK 12..07	ø190 H7	ø192	ø200	135	ø405	770	ø200 h8	ø190	ø190 g6	736	734	130	120	5	M30
SK 13..07	ø230 H7	ø232	ø240	155	ø460	880	ø240 h8	ø230	ø230 g6	838	836	150	135	5	M36
SK 15..07	ø250 H7	ø252	ø260	175	ø485	970	ø260 h8	ø250	ø250 g6	928	926	170	150	5	M36

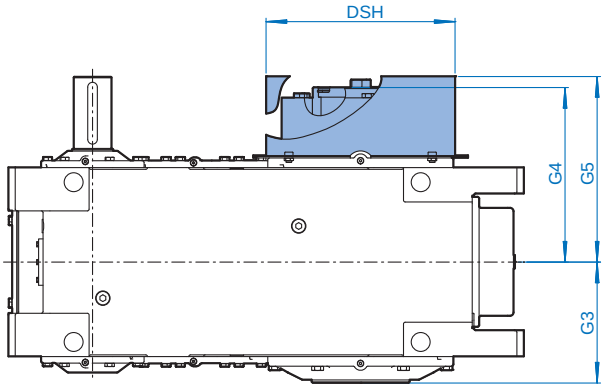
AFSAVL2/3 - Agitator & Drywell - Hollow Shaft with Shrink Disc





	DH	D0	D1	L1	DS	LG	dk1	dk0	dk	lk	lk2	l1	l2	Rmax	z
SK 7..07	ø125 H7	ø125.5	ø125	90	ø300	733	ø125 h8	ø125	ø125 h6	713	711	100	65	3	M24
SK 8..07	ø125 H7	ø125.5	ø125	90	ø300	733	ø125 h8	ø125	ø125 h6	713	711	100	65	3	M24
SK 9..07	ø160 H7	ø160.5	ø160	110	ø320	889.5	ø160 h8	ø125	ø160 h6	854.5	852.5	110	82	3	M30
SK 10..07	ø160 H7	ø160.5	ø160	110	ø320	889.5	ø160 h8	ø125	ø160 h6	854.5	852.5	110	82	3	M30
SK 11..07	ø170 H7	ø172	ø180	125	ø370	860	ø180 h8	ø170	ø170 g6	828	826	125	105	5	M30
SK 12..07	ø190 H7	ø192	ø200	135	ø405	940	ø200 h8	ø190	ø190 g6	906	904	130	120	5	M30
SK 13..07	ø230 H7	ø232	ø240	155	ø460	1070	ø240 h8	ø230	ø230 g6	1028	1026	150	135	5	M36
SK 15..07	ø250 H7	ø252	ø260	175	ø485	1220	ø260 h8	ø250	ø250 g6	1178	1176	170	150	5	M36

H/H66 - Hollow Shaft/Shrink Disc/ IP66 cover

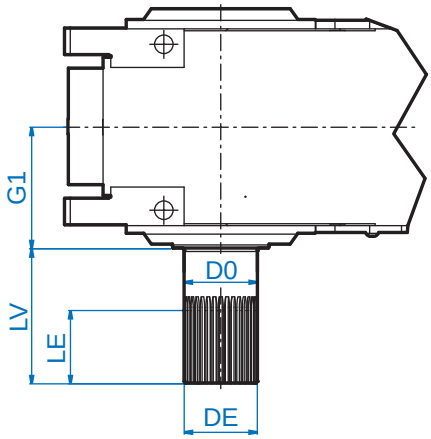


	DSH	G3	G4	G5
SK 11..07	ø 460	280	410	440
SK 12..07	ø 500	315	455	480
SK 13..07	ø 550	353	527	555
SK 15..07	ø 630	395	575	605

Other sizes available upon request

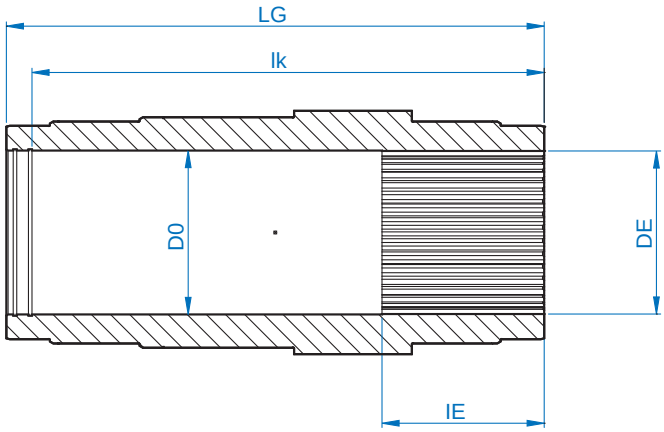
EV - Splined Solid Shaft
EA - Splined Hollow Shaft

EV - Splined Solid Shaft



	DE	LE	G1	LV	D0
SK 7..07	W 130 x 5 x 30 x 24 - DIN 5480	85	197	250	ø 130
SK 8..07	W 130 x 5 x 30 x 24 - DIN 5480	85	197	250	ø 130
SK 9..07	W 140 x 3 x 30 x 45 - DIN 5480	100	253	300	ø 140
SK 10..07	W 140 x 3 x 30 x 45 - DIN 5480	100	253	300	ø 140
SK 11..07	W 170 x 5 x 30 x 32 - DIN 5480	160	280	300	ø 170
SK 12..07	W 190 x 5 x 30 x 36 - DIN 5480	190	315	350	ø 190
SK 13..07	W 220 x 5 x 30 x 42 - DIN 5480	215	353	410	ø 220
SK 15..07	W 250 x 5 x 30 x 48 - DIN 5480	245	395	410	ø 250

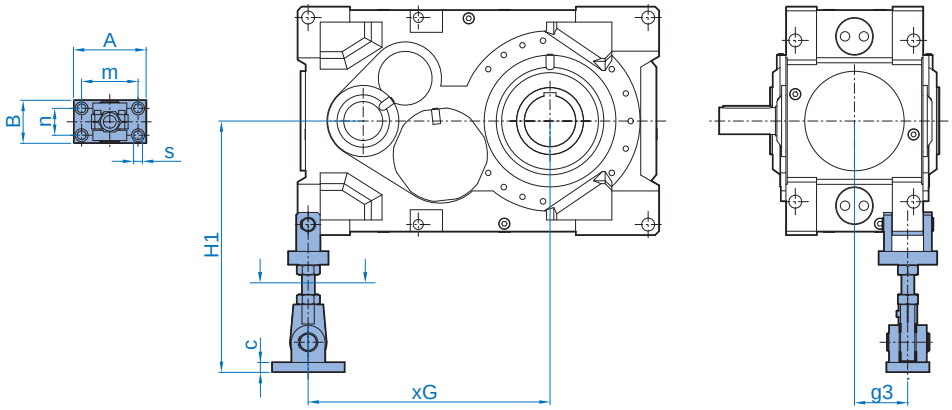
EA - Splined Hollow Shaft



	DE	LE	LG	D0	lk
SK 7..07	N 130 x 5 x 30 x 24 - DIN 5480	85	394	ø 130	374
SK 8..07	N 130 x 5 x 30 x 24 - DIN 5480	85	394	ø 130	374
SK 9..07	N 140 x 3 x 30 x 45 - DIN 5480	100	506	ø 140	476
SK 10..07	N 140 x 3 x 30 x 45 - DIN 5480	100	506	ø 140	476
SK 11..07	N 170 x 5 x 30 x 32 - DIN 5480	160	560	ø 170	525
SK 12..07	N 190 x 5 x 30 x 36 - DIN 5480	190	630	ø 190	595
SK 13..07	N 220 x 5 x 30 x 42 - DIN 5480	215	706	ø 220	666
SK 15..07	N 250 x 5 x 30 x 48 - DIN 5480	245	790	ø 250	745

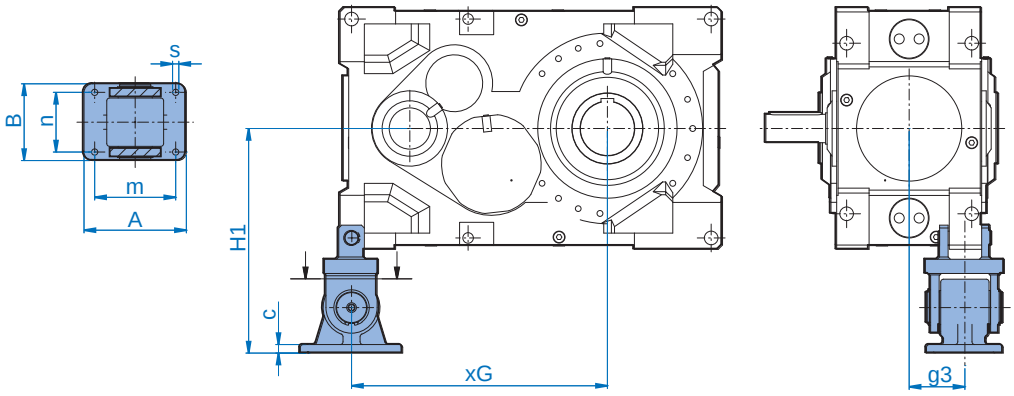
D - Torque Support
ED - Elastic Torque Support

D - Torque Support



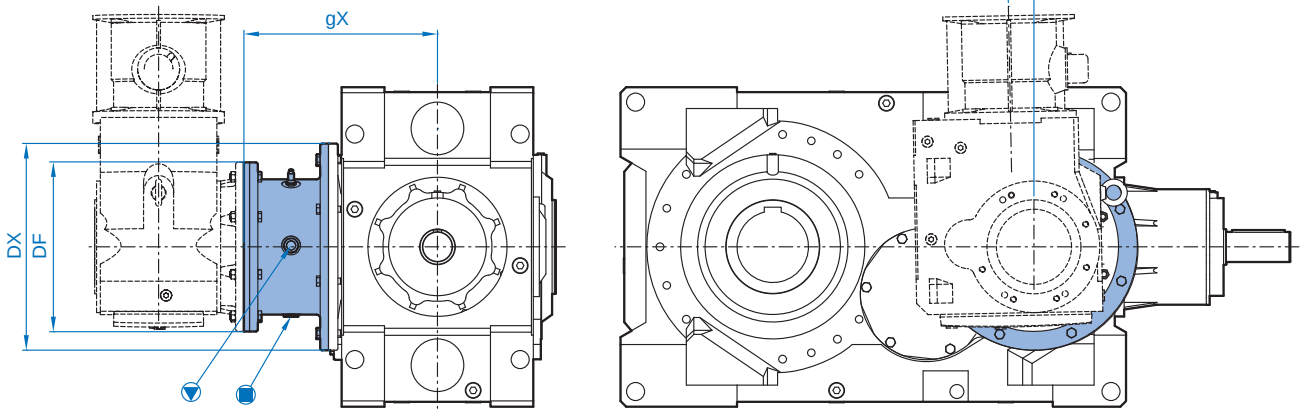
	H1max	H1min	xG	g3	c	A	B	m	n	s
SK 7..07	645	605	550	150.5	25	240	220	180	160	22
SK 8..07	675	635	575	150.5	25	240	220	180	160	22
SK 9..07	715	675	692.5	174	25	240	220	180	160	22
SK 10..07	750	710	722	174	25	240	220	180	160	22
SK 11..07	865	815	800	165	29	240	220	180	160	22
SK 12..07	935	885	900	195	29	240	220	180	160	22
SK 13..07	990	940	1005	210	29	290	250	220	180	26
SK 15..07	1120	1070	1200	247.5	39	330	300	250	220	33

ED - Elastic Torque Support



	H1	xG	g3	c	A	B	m	n	s
SK 7..07	490	550	150.5	22	200	160	160	120	22
SK 8..07	520	575	150.5	22	200	160	160	120	22
SK 9..07	655	692.5	174	25	200	200	140	140	22
SK 10..07	690	722	174	25	200	200	140	140	22
SK 11..07	740	800	167.5	30	360	270	285	210	22
SK 12..07	790	900	196	30	360	270	285	210	22
SK 13..07	890	1005	210	40	400	320	310	230	33
SK 15..07	980	1200	245.5	40	400	320	310	230	33

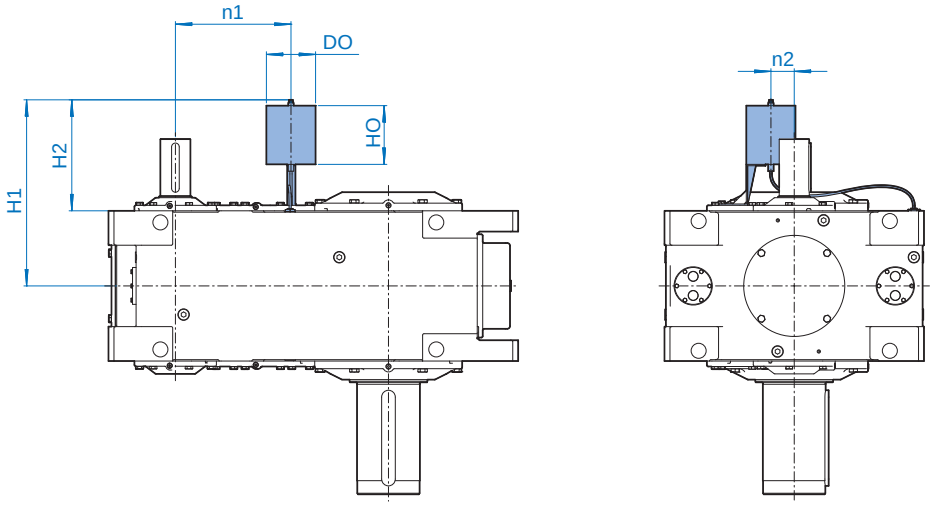
WX - Auxillary Drive



		DX	DF	gX	w
SK 7..07	SK 9022.1 VF	ø 350	ø 250	371.5	0°
	SK 9042.1 VF	ø 350	ø 350	371.5	0°
SK 8..07	SK 9022.1 VF	ø 350	ø 250	371.5	0°
	SK 9042.1 VF	ø 350	ø 350	371.5	0°
SK 9..07	SK 9032.1 VF	ø 350	ø 250	404	0°
	SK 9042.1 VF	ø 350	ø 350	404	0°
SK 10..07	SK 9032.1 VF	ø 350	ø 250	404	0°
	SK 9042.1 VF	ø 350	ø 350	404	0°
SK 11..07	SK 9052.1 VF	ø 450	450	465	1°
	SK 9072.1 VF	ø 450	450	445	1°
SK 12..07	SK 9072.1 VF	ø 550	450	545	1°
	SK 9082.1 VF	ø 550	450	515	1°
SK 13..07	SK 9072.1 VF	ø 550	450	565	1°
	SK 9082.1 VF	ø 550	450	535	1°
SK 15..07	SK 9082.1 VF	ø 550	550	655	1°
	SK 9092.1 VF	ø 550	660	620	1°

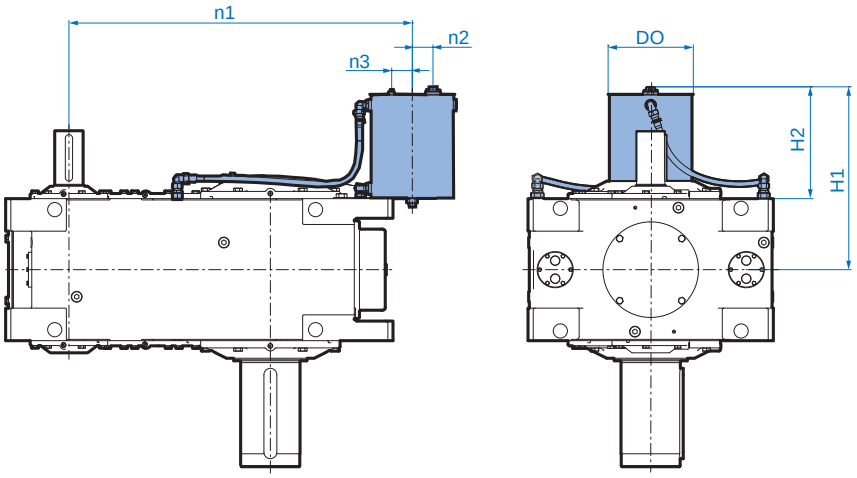
OA - Oil Expansion Chamber
OT - Oil Tank

OA - Oil Expansion Chamber



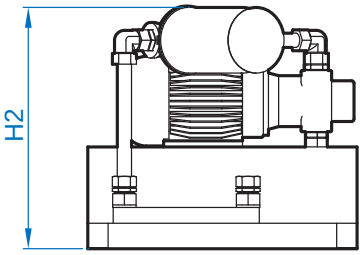
M5 / M6	DO	HO	H1	H2	n1	n2
SK 11..07	ø 180	215	625	406	335	70
SK 12..07	ø 180	215	660	406	375	75
SK 13..07	ø 180	215	680	406	425	85
SK 15..07	ø 180	215	735	406	500	100

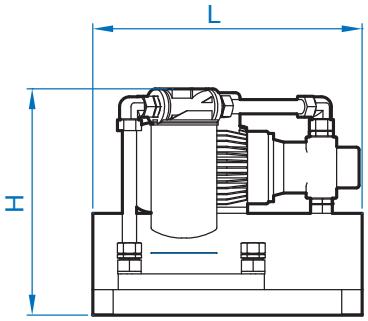
OT - Oil Tank

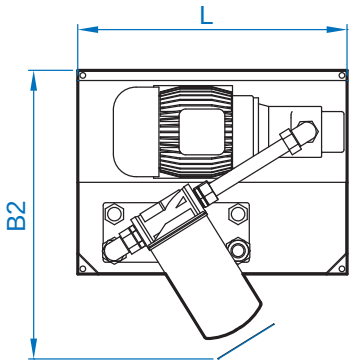


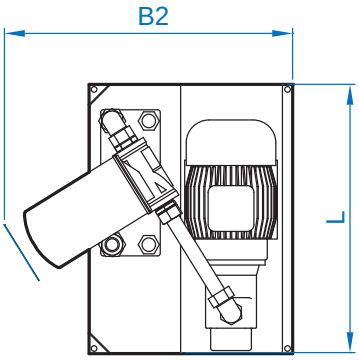
M5 / M6	DO	HO	H1	H2	n1	n2	n3
SK 11..07	ø 190	400	645	425	1060	80	80
SK 12..07	ø 330	400	730	477	1185	80	80
SK 13..07	ø 330	400	810	535	1330	80	80
SK 15..07	ø 330	400	965	636	1580	80	80

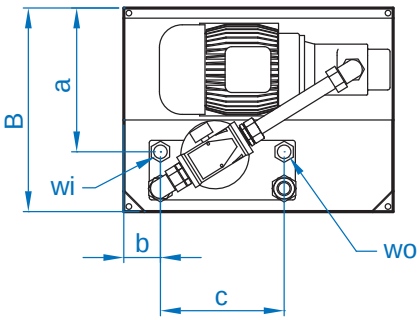
CS1 - Water Cooler





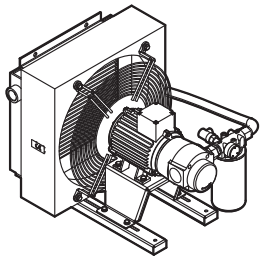


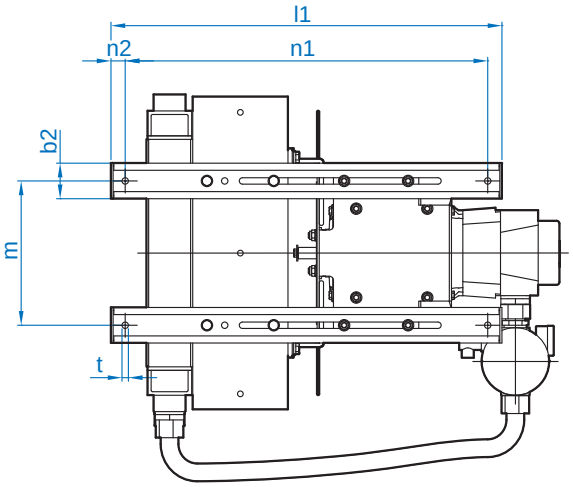


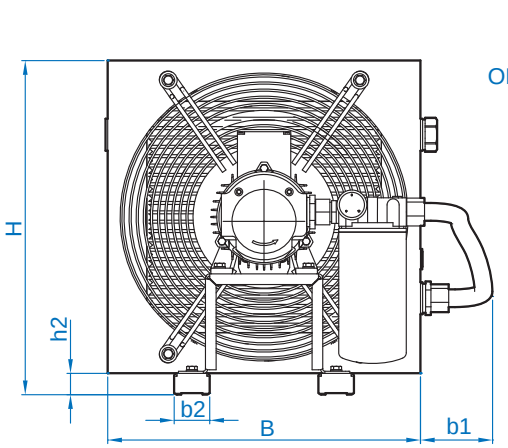


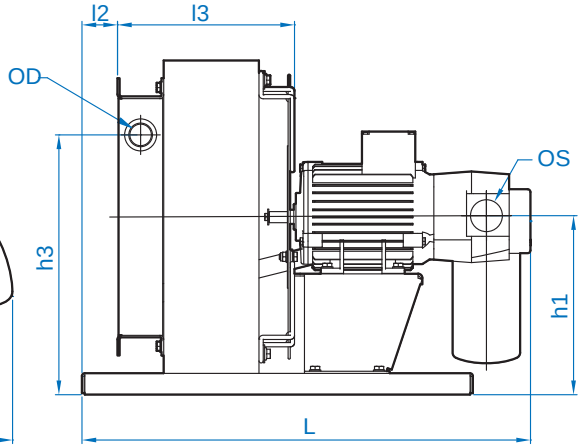
	L	B	B2	H	H2	a	b	c	wi	wo
A	480	420	500	400	430	250	80	278	G 1/2	G 1/2
B	520	394	530	431	450	287	175.5	234	G 3/4	G 3/4
C	520	394	530	431	450	287	175.5	234	G 3/4	G 3/4
D	530	450	570	450	480	282	70	243	G 3/4	G 3/4
E	530	450	570	450	480	282	70	243	G 3/4	G 3/4
F	530	450	570	450	480	282	70	243	G 3/4	G 3/4
G	600	550	650	500	530	340	50	320	G 1	G 1
H	600	550	650	500	530	340	50	320	G 1	G 1

CS2 - Air Cooler





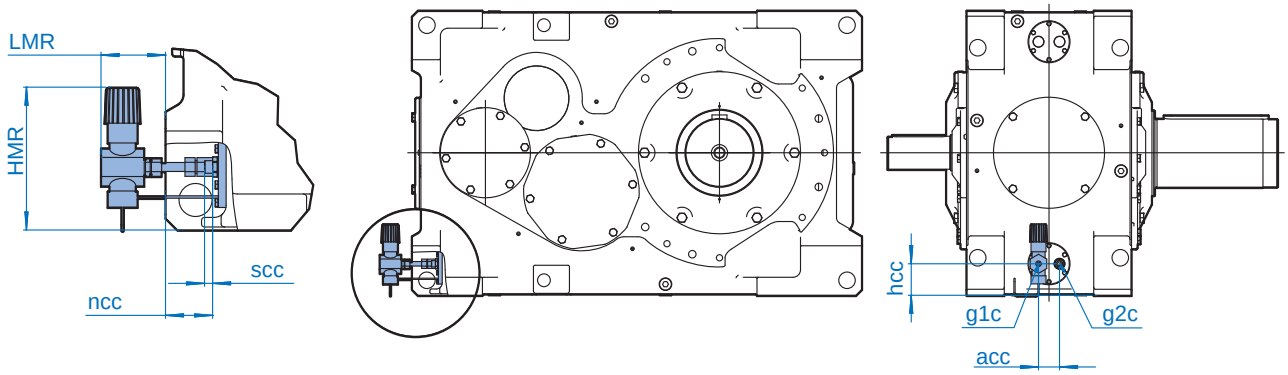




	L	l1	l2	l3	B	b1	b2	H	h1	h2	h3	n1	n2	m	t	os	od
A	650		50		440	144		395	250			610	20	203	ø14	G1 1/2	G1
B	632	550	50	215	440	103	50	470	262	30	136	510	20	203	ø9	G1 1/2	G1
C	632	550	50	215	440	103	50	470	262	30	136	510	20	203	ø9	G1 1/2	G1
D	718	650	70	265	580	104	50	470	322	30	204	610	20	356	ø14	G1 1/2	G1
E	718	650	70	265	580	104	50	470	322	30	204	610	20	356	ø14	G1 1/2	G1
F	718	650	70	265	580	104	50	470	322	30	204	610	20	356	ø14	G1 1/2	G1
G	832	650	70	343	692	99	50	866	450	30	196	610	20	356	ø14	G1 1/2	G1 1/4
H	832	650	70	343	692	99	50	866	450	30	196	610	20	356	ø14	G1 1/2	G1 1/4

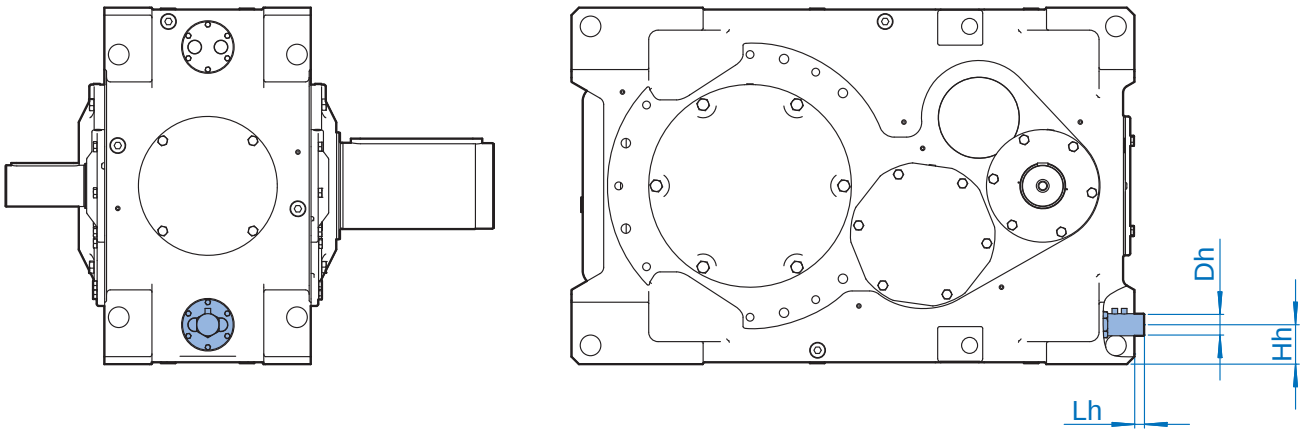
CC - Internal Water Cooler
OH - Oil Heater

CC - Internal Water Cooler (Cooling Coil)



	g1c	g2c	scc	acc	hcc	ncc	HMR	LMR
SK 11..07	G 1/2	G 1/2	13	70	90	62	238	108
SK 12..07	G 1/2	G 1/2	13	70	110	70	238	108
SK 13..07	G 1/2	G 1/2	13	70	100	78	238	108
SK 15..07	G 1/2	G 1/2	13	70	110	93	238	108

OH - Oil Heater



	Dh	Hh	Lh	1.0 kW	1.2 kW	1.4 kW	1.6 kW	2.0 kW
SK 11..07	ø 65	90	57	X	X			
SK 12..07	ø 65	110	49	X	X	X		
SK 13..07	ø 65	100	49		X	X	X	
SK 15..07	ø 65	110	20		X	X	X	X

Contact Information:

- North America
- Global

DRIVESYSTEMS

www.nord.com

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United States

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eMail: info.us@nord.com

For Sales office or distributors please contact us or see our website at www.nord.com

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eMail: info.ca@nord.com

For Sales office or distributors please contact us or see our website at www.nord.com

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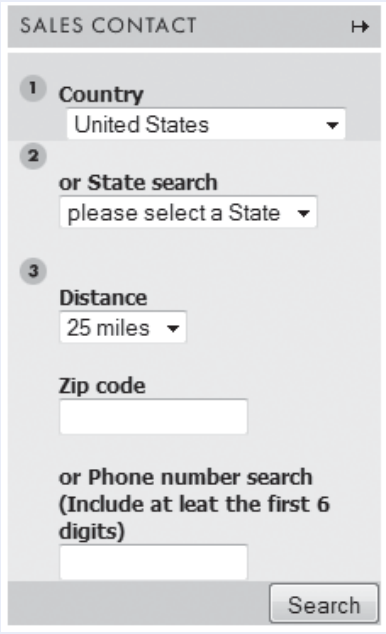
Mexico NORD Drivesystems SA DE CV
Mexico Regional Office
Av. Lázaro Cárdenas 1007 Pte.
San Pedro Garza Garcia, N.L.
México, C.P. 66266

phone: +52-81-8220-9165
fax: +52-81-8220-9044
eMail: info.mx@nord.com

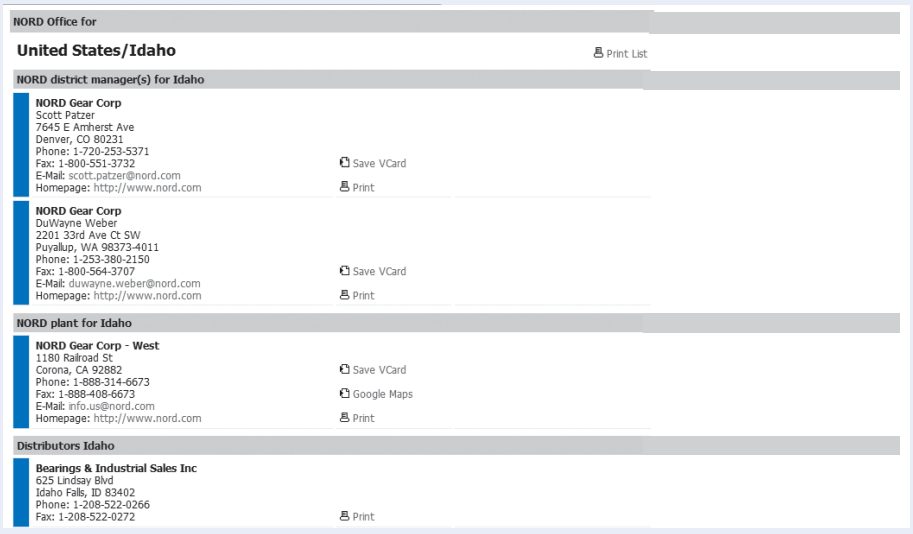
For Sales office or distributors please contact us or see our website at www.nord.com

NORD Locator Tool

For international contacts (outside of North America), NORD makes it easy for you to locate address and phone number of the sales contact or facility nearest you on our homepage or with the web address: www.locator.nord.com.



It is as easy as submitting your location and we provide you with a list of our nearest district managers, distributors and plant locations for your convenience.



NORD GEAR CORPORATION
Terms andConditions of Sale

1. CONTRACT

Any contract between Nord Gear Corporation, hereinafter designated as Seller, and the Buyer is subject to the terms and conditions of sale hereinafter set forth. Any deviation from such terms and conditions must be specifically set forth in writing and consented to by Seller. Accordingly, the Buyer and Seller acknowledge and agree that the terms and conditions set forth below and on the face hereof shall govern Buyer's purchase of the goods described on the face hereof and shall take precedence over and represents the final agreement between Buyer and Seller, notwithstanding any inconsistent, contradictory or other prior or further conditions contained in any oral or written request or purchase order issued by Buyer or any other document furnished by Buyer in connection with its purchase of the Goods, regardless of whether such document or documents are exchanged simultaneously with this Invoice or prior or subsequent thereto. Any additional or different terms or conditions which may appear in any communicaiton, oral or written, from Seller, its officers, employees, agents or representatives, are hereby expressly rejected and shall not be effective or binding upon the Seller, unless specifically hereafter agreed to in writing by Seller and no such additional or different terms or conditions in any document submitted to Seller by Buyer shall become part of the contract between Buyer and Seller, unless such written acceptance by Seller specifically recognizes and assents to their inclusion. Any objection by Buyer to the terms and conditions hereof shall be ineffective unless Seller is advised in writing thereof within two (2) days of the date of this Invoice.

2. CONFIRMATION

An order shall be deemed accepted only when duly confirmed by Seller, at Nord Gear Corporation's home office in Waunakee, Wisconsin, and upon such confirmation the order shall become a contract binding upon the parties hereto, their successors and assigns.

3. PRICES

Prices shown are list prices and may be subject to applicable discounts. Unless otherwise agreed upon in writing, prices are FOB factory Waunakee, Wisconsin. Prices and discounts are subject to change without notice until order is accepted. Seller's prices do not include cost of any inspection permits required.

4. LIMITED WARRANTY

Seller warrants the goods sold hereunder to be free from defects in material and workmanship under normal use and service not arising from misuse, negligence, or accident, including but not limited to the use, installation, and transportation of the goods by the Buyer, its agents, servants, employees, or by carriers. Such obligations under this warranty are limited to remedying any deficiencies in the goods at Waunakee, Wisconsin, or at such place or places in the United States of America as may be designated by Seller. THIS WARRANTY SHALL PERTAIN TO ANY PART OR PARTS OF ANY GOODS TO WHICH BUYER OR ITS ASSIGNS HAS GIVEN WRITTEN NOTICE OF CLAIMED DEFECTS TO SELLER. NORD GEAR CORP. WARRANTS ITS PRODUCTS AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF 12 MONTHS FROM DATE OF INSTALLATION OR 18 MONTHS FROM DATE OF SHIPMENT WHICHEVER COMES FIRST ON ALL COMPONENTS. 36 MONTHS FROM DATE OF INVOICE OR 24 MONTHS FROM DATE OF INSTALLATION WHICHEVER COMES FIRST ON GEARS AND HOUSINGS ONLY. PARTS WHICH ARE SUBJECT TO OPERATIONAL WEAR AND TEAR, SUCH AS BELTS & TRACTION DISCS, ARE NOT COVERED BY THE LIMITED WARRANTY. Buyer shall be required to furnish Seller with details of such defects and this warranty shall be effective as to such goods which Seller's examination shall disclose to its satisfaction to have been defective and which at Seller's option shall promptly thereafter be returned to Seller or its nominees. THE LIMITED WARRANTY SET FORTH HEREIN IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. EXCEPT FOR THE EXPRESS WARRANTIES SET FORTH HEREIN, SELLER HAS MADE AND MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO THE GOODS SOLD HEREUNDER, INCLUDING, BUT NOT LIMITED TO, THEIR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. ANY DESCRIPTION OR MODEL OF THE GOODS IS FOR IDENTIFICATION OR ILLUSTRATIVE PURPOSES ONLY AND SHALL NOT BE DEEMED TO CREATE ANY WARRANTY, EXPRESS OR IMPLIED. SELLER MAKES NO REPRESENTATIONS AS TO THE CAPACITY OR PERFORMANCE OF THE GOODS SOLD HEREUNDER, EXCEPT AS SET FORTH IN THE INVOICE'S SPECIFICATIONS OR OTHER VALID AGREEMENT OR CONDITION AGREED TO BETWEEN THE PARTIES, AND ANY SUCH REPRESENTATIONS ARE EXPRESSLY CONDITIONED UPON THE CORRECTNESS OF THE DATA AND INFORMATION FURNISHED BY THE BUYER AND UPON THE GOODS BEING PROPERLY INSTALLED AND MAINTAINED. THE REMEDIES OF THE BUYER PROVIDED HEREUNDER ARE EXCLUSIVE. In no event shall the Seller be liable to the Buyer or to any other person for any loss or damage, direct or indirect, arising out of or caused by the use or operation of the goods, or for the loss of profits, business, or good will, or for any incidental, special or consequential damages. Seller shall in no event be liable to any person or firm (including any assignee or Buyer) except Buyer and its successors. Unless specifically authorized by Seller in writing, Seller shall not become responsible for any repair work done by Buyer or any other party on any goods sold. Any and all costs of the return to the Seller of such goods and all related costs to remove and re-install such goods, shall be borne by Buyer. Goods sold but not manufactured by the Seller are being warranted as to defects in material and workmanship consistent with the limited warranty policy of the original manufacturer of the goods and if there is not such a limited warranty policy, the warranty shall be limited to the provision of the preceding paragraph of Article 4 herein. Standards for the operating characteristics of the gearboxes and the gearmotors are in conformity with Seller's tests.

5. SHORTAGE AND NONCONFORMITY

Any claim of shortage or that the goods do not conform with the specifications of the order or model must be made in writing within ten (10) days after delivery of the goods (as to which such claim is made) to Buyer or its nominees, but in no event shall the claim be later than within the time limit provided by the carrier or insurance company, otherwise such claim shall be deemed waived. Buyer may not return any goods claimed to be in non-conformity without Seller's prior written authorization. Goods returned without permission will not be accepted, including for credit, and will be returned to Buyer, F.O.B. Seltter's plant. Any claim based on the receipt of damaged Goods must be filed with the carrier which delivered the goods. The samples, measurements, dimensions and weights contained in the Seller's catalogs, sales manuals, photographs and drawings constitute only an approximate guide. The Seller reserves the right to make any change which the Seller, in its absolute discretion, considers necessary. While the goods will be delivered principally according to specifications or standards or quantities agreed upon, insignificant deviations or insignificant changes in construction are permissible. The same applies to partial deliveries, In the event that Buyer has a verified claim of shortage or nonconformity of the goods to the specifications of the order or the model, and if such claim has been submitted within the required time limit as set forth above, the Seller shall, at its own expense, make up for the shortage of the goods, or replace or repair the goods, as the case may be, but in no event shall Seller be or become liable to Buyer or to any other person or persons for any loss in damage, direct or indirect, arising out of or caused by such incidents or for the loss of profits, business or good will. The liability of the Seller to Buyer, if any hereunder, for breach of warranty, contract, negligence or otherwise, shall in no event exceed the amount of the purchase price of the goods sold with respect to which any damages are claimed. Shipping dates are estimates unless parties expressly agree on time of the essence.

6. FORCE MAJEURE

The obligation of the Seller shall be modified or excused, as the case may be, for reasons of Acts of God, war, governmental law regulations, strikes or lock-outs, fire, breakdown of machinery, whether in its own business enterprise, or if for any other cause beyond Seller's control, the goods cannot be delivered or their delivery becomes delayed in whole or in part. In the above instances time for delivery shall be extended for the period of the delay caused, with the proviso, however, that either party may cancel in writing the undelivered portion of the order or contract if the delay exceeds six (6) months from the delivery date originally confirmed by Seller. In no event shall Seller become liable in the aforesaid instances to Buyer or any third party for consequential damages or business loss.

7. SHIPMENT AS UNIT

Each shipment by Seller shall be treated as a separate and distinct unit with respect, but only with respect to forwarding, terms of payment, and the making of claims by the Buyer: provided, however, that if the Buyer defaults in the payment of any obligation to Seller or any installments thereof, under any agreement between Buyer and Seller, or if Buyer refuses to accept any goods when tendered for delivery, the Seller may, on fifteen (15) days written notice to the Buyer, without prejudice to Seller's other lawful remedies, either defer further performance until the defaulted payments are made in full, or make future deliveries for cash in advance only, or treat the entire contract or contracts with Buyer as breached by the Buyer and pursue its remedies for breach.

8. BUYER'S REFUSAL OF DELIVERY

If Buyer refuses to accept delivery of any goods tendered for delivery, then Seller, without prejudice to Seller's other lawful remedies, may either store or cause such goods to be stored in a warehouse, for buyer's account and at Buyer's cost, risk and expense, or sell such goods (without notice) to any purchases at public or private sale, and hold the Buyer liable for any difference between (a) the contract price of the goods, and (b) the price at which goods are resold less the costs and expense of such resale including brokerage commissions, or restocking charges.

9. GOODS IN TRANSIT

If prior to delivery or while the goods are in transit, Buyer or Seller becomes bankrupt or insolvent, or any petition in bankruptcy or for the reorganization or for a state court receivership is filed against Buyer or Seller, as the case may be, then the other party hereto may forthwith terminate this contract by giving written notice of such termination. Such termination shall not affect any claim for damages available to the Buyer, provided that if Buyer is then indebted to Seller, the amount of any such damage claim shall be abated to the extent that the indebtedness of Buyer to Seller, as actually paid in money, is abated by any order of judgement entered or any plan adopted in any bankruptcy, reorganization, receivership, or similar proceeding. Such termination shall not prejudice the Seller's rights to any amounts then due under the contract. If Buyer becomes bankrupt or insolvent or any petition in bankruptcy or for reorganizing or if a state court receivership is filed against Buyer, then, at its option Seller may take possession of any goods theretofore sold to Buyer, in connection with which the full purchase price has not been paid, analogous to the terns and provisions set forth in Paragraphs 11 and 12 hereinafter.

10. DELIVERY

(a) Any indicated dates of delivery are approximate only, but NORD Gear will attempt to meet them whenever possible. (b) NORD Gear will not be liable for any penalty clausess contained in any specifications or order submitted unless agreed to in writing by an authorized officer of NORD Gear Corporation. (c) Unless otherwise agreed, delivery of the goods to any carrier shall constitute delivery to the Buyer, and thereafter the risk of loss or damage to the goods shall be upon the Buyer. (d) If the Buyer does not give delivery instructions to the Seller at least (10) days prior to the delivery date ex factory confirmed by the Seller, the Seller may deliver the goods to a carrier of its own choosing, at Buyer's cost and risk, or, at Seller's option, may store the goods on the pier or any warehouse, at Buyer's cost and risk. Any purchase price in such event becomes due and payable within ten (10) days of such storage.

11. PAYMENT OF PURCHASE PRICE

Time of payment is of the essence under the contract. Unless otherwise provided, terms of payment are 30 days net from the date of invoice with a 1% discount if paid within 10 days of date of invoice. Upon default in any of the terms of the contract, or failure to comply with any of the conditions thereof, or upon seizure of the property under execution or other legal process, or if the Buyer becomes bankrupt or insolvent, or any petition for reorganization or for a state court receivership is filed against Buyer, or if the Buyer makes any assignment for the benefit of it's creditors or otherwise sells, encumbers or disposes of the goods, or if for any other reason the Seller should deem itself insecure, the full amount of the purchase price then remaining unpaid shall at once become due and payable at the option of the Seller.

12. BUYER'S DEFAULT

Upon the Buyer's default, the Seller may dispose of the merchandise in any manner that it deems fit and, if it desires to resell same, may do so at private or public sale, with or without notice, and with or without the property being at the place of sale, subject, however, to applicable laws. The Seller or its assigns shall have the right to bid at such sale and may become the purchaser of the property. The proceeds of the sale shall first be applied to the expenses incurred in retaking, repairing, storing and selling the goods, reasonable attorney's fees included, and then shall be applied to the payment of the balance due under the contract. Any surplus amount shall be paid to the Buyer. If a deficiency results after the resale, the Buyer agrees to pay such forthwith, together with reasonable attorney's fees, for the recovery of the goods incurred by the Seller. If upon the Buyer's default, the Seller elects not to resell any goods which it may repossess, then the cost of repossession, including reasonable attorney's fees, shall forthwith be due and payable from Buyer to Seller. Buyer agrees to pay all reasonable costs and reasonable attorneys' fees incurred by Seller in enforcing Seller's rights against Buyer, including Seller's right to payment of the purchase price of the goods and Buyer's payment of all other amounts owing to Seller required under this Invoice and Conditions of Sale.

13. SECURITY INTEREST AND TITLE

In states and localities which are governed by the Uniform Commercial Code, this contract shall serve as security agreement, reserving in Seller a security interest until full payment of purchase price. The provisions of the Uniform Commercial Code regarding security interest shall have preference and apply if inconsistent with other terms of the conditions of sale. In states and localities where the Uniform Commercial Code does not apply, title to the goods shall remain in the Seller or its assigns until full payment of the purchase price. Buyer agrees to execute forthwith any and all documents in such a way and form as Seller may need for filing or recording the security interest under the Uniform Commercial Code with the proper registers or offices, or for filing or recording the conditional sales contract.

14. SALES AND USE TAX

Buyer agrees to bear and pay any sales or use tax in connection with the purchase herein, and to hold the Seller harmless from payment. At the option the Seller, Buyer shall give evidence of payment or of exemption certificate.

15. INSURANCE

The Buyer shall keep the goods insured against damage by fire, water or other casualty as required by Seller, with a company acceptable to Seller, with loss payable to Seller for the total purchase price until the Seller is fully paid. Seller, if it so elects, may place said insurance at Buyer's expense; Seller may cancel such insurance at any time and without notice and may receive the return premium, if any.

16. MODIFICATION BY SELLER

Any contract may be assigned or transferred by the Seller, or the time for the making of any payment due by Buyer may be extended by Seller without derogation of any of the rights of the Seller or its assigns. Waiver by any party of any default shall not be deemed a waiver of any subsequent default.

17. RETURNED GOODS

No goods will be accepted for return unless authorized in writing by Seller. In all cases, transportation and restocking charges will be borne by Buyer.

18. PACKING

The Buyer will be charged for export packaging or other special packing desired. Cost for cartage to ship or transfer express will be added to the invoice. No credit will be allowed if no packing is required.

19. CHANGES/CANCELLATION

NORD Gear will not accept changes in specifications to a confirmed order unless such changes are requested in writing and confirmed back in writing. In addition, the purchaser must to agree to any additional charges that may arise from the change. Placing orders on hold or cancellation of orders require Seller's written approval, and are subject to cancellation and/or restocking charges.

20. BUYER'S RESPONSIBILITY AS TO MAINTENANCE

Buyer shall use and shall require its employees and agents to use all safety devices and guards and shall maintain the same in proper working order. Buyer shall use and require its employees and agents to use safe operation procedures in operating the equipment and shall further obey and have its employees and agents obey safety instructions given by Seller. If Buyer fails to meet the obligations herein, Buyer agrees to defend, indemnify and save Seller harmless from any liability or obligation with regard to any personal injuries or property damages directly or indirectly connected with the operation of the equipment. Buyer further agrees to notify Seller promptly and in any event not later than ten (10) days after notice or knowledge of any accident or malfunction involving Seller's equipment which has caused personal injury or property damages and to cooperate fully with Seller in investigating and determining the causes of such accident and malfunction. In the event that Buyer fails to give such notice to Seller or to cooperate with Seller, Buyer shall be obligated to defend, indemnify and save Seller harmless from any such claims arising from such accident.

21. MISCELLANEOUS PROVISIONS

(a) If for any reason a provision of a contract is legally invalid, then in such event the rest of the contract shall remain in full force and affect, except that the parties shall try to replace such invalid provision closest to their original mutual intentions. (b) This Invoice and these Conditions of Sale constitute the entire agreement between the parties regarding the subject matter hereof and supercedes all prior agreements, understandings and statements, whether oral or written, regarding such subject matter. No modification to, change in or departure from, the provisions of this Invoice and Conditions of Sale shall be valid or binding on Seller, unless approved in writing by Seller. No course of dealing or usage of trade shall be applicable unless expressly incorporated into this Invoice and Conditions of Sale. Any amendments to any contract or contracts between the parties shall be valid only upon the written consent of both parties.

22. NON ASSIGNMENT BY BUYER

Contract or contracts may not be assigned by the Buyer without prior written consent of the Seller.

23. APPLICABLE LAW AND VENUE

All contracts and their interpretation are governed by the applicable, substantive laws of the State of Wisconsin. Any litigation brought by the Buyer regarding this Invoice or goods purchased hereunder may only be brought in the Circuit Court for Dane County, Wisconsin.

NORD GEAR LIMITED
Terms and Conditions of Sale

1. CONTRACT
Any contract between Nord Gear Limited, hereinafter designated as "Seller", and the party or parties accepting these terms and conditions of sale and any agent, officer, servant, employee or subcontractor of such party or parties, hereinafter designated as "Buyer", is subject to the terms and conditions of sale hereinafter set forth. Any deviation from such terms and conditions must be specifically set forth in writing and consented to by Seller.

2. CONFIRMATION
An order shall be deemed accepted only when duly confirmed by Seller, at Nord Gear Limited's home office in Brampton, Ontario, and upon such confirmation the orders shall become a contract binding upon the parties hereto, their successors and assigns.

3. PRICES
Prices shown are list prices and may be subject to applicable discounts. Unless otherwise agreed upon in writing, prices are FOB factory Brampton, Ontario. Prices and discounts are subject to change without notice until the order is accepted. Seller's prices do not include cost of any inspection permits required.

4. LIMITED WARRANTY
Seller warrants the goods sold hereunder to be free from defects in material and workmanship under normal use and service not arising from misuse, negligence, or accident, including but not limited to the use, installation, and transportation of the goods by Buyer, its agents, servants, employees, or by carriers. This warranty shall pertain to any part or parts of any goods to which Buyer or its assigns has within one year from date of delivery given written notice of claimed defects to Seller. Buyer shall be required to furnish Seller with details of such defects and this warranty shall be effective as to such goods which Seller's examination shall disclose to its satisfaction to have been defective and which at Seller's option shall promptly thereafter be returned to Seller or its nominees. EXCEPT FOR THE EXPRESS WARRANTIES SET FORTH ABOVE, SELLER HAS MADE NO WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, AS TO THE GOODS SOLD HEREUNDER, INCLUDING, BUT NOT LIMITED TO THEIR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. ANY DESCRIPTION OR MODEL OF THE GOODS IS FOR IDENTIFICATION OR ILLUSTRATIVE PURPOSES ONLY AND SHALL NOT BE DEEMED TO CREATE AN EXPRESS WARRANTY. The Buyer's exclusive remedy for claims arising from defective or nonconforming goods shall be limited to the repair or replacement thereof at the Seller's sole option. THE SELLER SHALL NOT BE RESPONSIBLE OR LIABLE FOR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE SALE, DELIVERY, USE, PERFORMANCE, OR SERVICE OF THE GOODS SOLD UNDER THIS AGREEMENT. SELLER SHALL NOT BE LIABLE FOR ANY LOST PROFITS OR FOR ANY CLAIM OR DEMAND AGAINST SELLER BY ANY PARTY. IN NO EVENT WILL SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SELLER'S AGGREGATE LIABILITY FOR DAMAGES UNDER THIS AGREEMENT, WHETHER ARISING FROM OR BASED UPON BREACH OF WARRANTY, BREACH OF CONTRACT, TORT OR OTHER CAUSE OF ACTION, SHALL IN NO CASE EXCEED THE PURCHASE PRICE THAT BUYER PAYS FOR THE PARTICULAR GOODS INVOLVED. Seller shall in no event be liable to any person or firm (including any assignee or Buyer) except Buyer and its successors. Unless specifically authorized by Seller in writing, Seller shall not become responsible for any repair work done by Buyer or any other party on any goods sold. Any costs of the return of such goods to Seller shall be borne by Buyer. Goods sold but not manufactured by Seller are being warranted as to defects in material and workmanship consistent with the limited warranty policy of the original manufacturer of the goods and if there is not such a limited warranty policy, the warranty shall be limited to the provisions of Article 4 herein. Standards for the operating characteristics of the gearboxes and the gear motors are in conformity with Seller's tests. THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE SELLER DOES NOT ASSUME, NOR DOES IT AUTHORIZE ANY PERSON TO ASSUME, ON ITS BEHALF, ANY OTHER OBLIGATION OR LIABILITY.

5. SHORTAGE AND NONCONFORMITY
Any claim of shortage or that the goods do not conform with the specifications of the order or model must be made in writing within ten (10) days after delivery of the goods (as to which such claim is made) to Buyer or its nominees, but in no event shall the claim be later than within the time limit provided by the carrier or insurance company, otherwise such claim shall be deemed waived. The samples, measurements, dimensions and weights contained in Seller's catalogs, sales manuals, photographs and drawings constitute only an approximate guide. Seller reserves the right to make any changes which Seller, in its absolute discretion, considers necessary. While the goods will be delivered principally according to specifications of standards or quantities agreed upon, insignificant deviations or insignificant changes in construction are permissible. The same applies to partial deliveries. In the event that Buyer has a verified claim of shortage or nonconformity of the goods to the specifications of the order or the model, and if such claim has been submitted within the required time limit as set forth above, Seller shall, at its own expense, make up for the shortage of the goods, or replace or repair the goods, as the cause may be, but in no event shall Seller be or become liable to Buyer or to any other person or persons for any loss in damage, direct or indirect, arising out of or caused by such incidents or for the loss of profits, business of good will. Shipping dates are estimates unless parties expressly agree on time of the essence.

6. FORCE MAJEURE
The obligation of Seller shall be modified or excused, as the case may be, for reasons of Acts of God, war, governmental law regulations, strikes or lock-outs, fire, breakdown of machinery, whether in its own business enterprise, or if for any other cause beyond Seller's control, the goods cannot be delivered or their delivery becomes delayed in whole or in part. In the above instances time for delivery shall be extended for the period of the delay caused, with the proviso, however, that either party may cancel in writing the undelivered portion of the order of contract if the delay exceeds six (6) months from the delivery date originally confirmed by Seller. In no event shall Seller become liable in the aforesaid instances to Buyer or any third party for consequential damages or business loss.

7. SHIPMENT AS UNIT
Each shipment by Seller shall be treated as a separate and distinct unit with respect, but only with respect to forwarding, terms of payment, and the making of claims by Buyer; provided, however, that if Buyer defaults in the payment of any obligation to Seller or any installments thereof, under any agreement between Buyer and Seller, or if Buyer refuses to accept any goods when tendered for delivery, Seller may, on fifteen (15) days written notice to Buyer, without prejudice to Seller's other lawful remedies, either defer further performance until the defaulted payments are made in full, or make future deliveries for cash in advance only, or to treat the entire contract or contracts with Buyer as breached by Buyer and pursue its remedies for breach.

8. BUYER'S REFUSAL OF D ELIVERY
If Buyer refuses to accept delivery of any goods tendered for delivery, then Seller, without prejudice to Seller's other lawful remedies, may either store or cause such goods to be stored in a warehouse, for Buyer's account and at Buyer's cost, risk and expense, or sell such goods (without notice) to any purchaser at public or private sale, and hold Buyer liable for any difference between (A) the contract price of the goods, and (B) the price at which goods are resold less the costs and expense of such resale including brokerage commissions, or restocking charges.

9. GOODS IN TRANSIT
If prior to delivery or while the goods are in transit, Buyer or Seller becomes bankrupt or insolvent, or any petition in bankruptcy or for the reorganization or for appointment of a receiver is filed against Buyer or Seller, as the case may be, then the other party hereto may forthwith terminate this contract by giving written notice of such termination. Such termination shall not affect any claim for damages available to Buyer, to Seller, as actually paid in money, is abated by any order of judgment entered or any plan adopted in any bankruptcy, reorganization, receivership, or similar proceeding. Such termination shall not prejudice Seller's rights to any amounts then due under the contract. If Buyer becomes bankrupt or insolvent or any petition in bankruptcy or for reorganization or if a state court receivership is filed against Buyer, then, at its option, Seller may take possession of any goods theretofore sold to Buyer, in connection with which the full purchase price has not been paid, analogous to the terms and provisions set forth in Paragraphs 11 and 12 hereinafter.

10.DELIVERY
(A)Unless otherwise agreed, delivery of the goods to any carrier shall constitute delivery to Buyer, and thereafter the risk of loss or damage to the goods shall be upon Buyer. (B) If Buyer does not give delivery instructions to Seller at least ten (10) days prior to the delivery date ex factory confirmed by Seller, Seller may deliver the goods to a carrier of its own choosing, at Buyer's cost and risk, or, at Seller's option may store the goods on the pier or on any warehouse at Buyer's cost and risk. Any purchase price in such event becomes due and payable within ten (10) days of such storage.

11. PAYMENT OF PURCHASE PRICE
Time of payment is of the essence under the contract. Upon default in any of the terms of the contract, or failure to comply with any of the conditions thereof, or upon seizure of the property under execution or other legal process, or if Buyer becomes bankrupt or insolvent, or any petitions for reorganization or for appointment of a receiver is filed against Buyer, or if Buyer makes any assignment for the benefit of its creditors or otherwise sells, encumbers or disposes of the goods, or if for any other reason Seller should deem itself insecure, the full amount of the purchase price then remaining unpaid shall at once become due and payable at the option of Seller. Interest on the delinquent payment from the due date thereof until paid shall be at a rate of two (2%) percent per month.

12. BUYER'S DEFAULT
Upon Buyer's default, Seller may dispose of the merchandise in any manner that it deems fit and, if it desires to resell same, may do so at private or public sale, with or without notice, and with or without the property being at the place of sale, subject, however, to applicable laws. Seller or its assigns shall have the right to bid at such sale and may become the purchaser of the property. The proceeds of the sale shall first be applied to the expenses incurred in retaking, repairing, storing and selling the goods; reasonable solicitor's fees included, and then shall be applied to the payment of the balance due under the contract. Any surplus amount shall be paid to Buyer. If a deficiency results after the sale, Buyer agrees to pay such forthwith, together with reasonable solicitor's fees, for the recovery of the goods incurred by Seller. If upon Buyer's default, Seller elects not to resell any goods which it may repossess, then the cost of repossession, including reasonable solicitor's fees, shall forthwith be due and payable from Buyer to Seller.

13. SECURITY INTEREST AND TITLE
In provinces which are governed by a Personal Property Security Act, this contract shall serve as a security agreement, reserving in Seller a security interest until full payment of the purchase price. The provisions of the Personal Property Security Act regarding security interest shall have preference and apply if inconsistent with other terms of the conditions of sale herein. In provinces where a Personal Property Security Act does not apply, title to the goods shall remain in the Seller or its assigns until full payment of the purchase price. Buyer agrees to execute forthwith any and all documents in such a way and form as Seller may need for filing or recording the security interest under a Personal Property Security Act with the proper registers or offices, or for filing or recording the Conditional Sales Contract herein.

14. SALES AND USE TAX
Seller's prices do not include sales, use, excise or other taxes payable to any governmental authority in respect of the sale of Seller's goods. Buyer shall pay, in addition to Seller's price, the amount of any such taxes or shall reimburse Seller for the amount thereof that Seller may be required to pay. At the option of Seller, Buyer shall give evidence of payment or of exemption certificate.

15. INSURANCE
Buyer shall keep the goods insured against damage by fire, water or other casualty as required by Seller, with a company acceptable to Seller, with loss payable to Seller for the total purchase price until Seller is fully paid. Seller, if it so elects, may place said insurance at Buyer's expense; Seller may cancel such insurance at any time and without notice and may receive the return premium, if any.

16. MODIFICATION BY SELLER
Any contract may be assigned or transferred by Seller, or the time for the making of any payment due by Buyer may be extended by Seller without derogation of any of the rights of Seller or its assigns. Waiver by any party of any default shall not be deemed a waiver of any subsequent default.

17. RETURNED GOODS
No goods will be accepted for return unless authorized in writing by Seller. In all cases, transportation and restocking charges will be borne by Buyer.

18. PACKING
Seller does not charge for standard packaging for domestic shipment. Buyer will be charged, however, for export packaging or other special packing desired. Cost for cartage to ship or transfer express will be added to the invoice. No credit will be allowed if no packing is required.

19. EXPORT ORDER
Export orders are to be accompanied by a confirmed irrevocable Letter of Credit in Seller's favor, in Canadian currency, with an accredited Canadian bank, subject to Seller's draft, with shipping documents attached.

20. CANCELLATION
Placing orders on hold or cancellation of orders require Seller's written approval, and are subject to cancellation and/or restocking charges.

21. BUYER'S RESPONSIBILITY AS TO MAINTENANCE
Buyer shall use and shall require its employees and agents to use all safety devices and guards and shall maintain the same in proper working order. Buyer shall use and require its employees and agents to use safe operating procedures in operating the equipment and shall further obey and have its employees and agents obey safety instructions given by Seller. If Buyer fails to meet the obligations herein, Buyer agrees to indemnify and save Seller harmless from any liability or obligation with regard to any personal injuries or property damages directly or indirectly connected with the operation of the equipment. Buyer further agrees to notify Seller promptly and in any event not later than ten (10) days after notice or knowledge of any accident or malfunction involving Seller's equipment which has caused personal injury or property damages and to cooperate fully with Seller in investigating and determining the causes of such accident and malfunction. In the event that Buyer fails to give such notice to Seller or to cooperate with Seller, Buyer shall be obligated to indemnify and save Seller harmless from any such claims arising from such accident.

22. MISCELLANOUS PROVISIONS
(A)If for any reason a provision of a contract is legally invalid, then in such event the rest of the contract shall remain in full force and affect, except that the parties shall try to replace such invalid provision with a provision closest to their original mutual intentions. (B) Any amendments to any contract or contracts require the consent in writing by both parties. Headings in this document are for ease of reference only.

23. NON ASSIGNMENT BY BUYER
Contract or contracts may not be assigned by Buyer without prior written consent of Seller.

24. APPLICABLE LAW
This agreement shall be governed by the laws of the Province of Ontario and the applicable laws of Canada. Buyer and Seller agree that any judicial proceeding with respect to this agreement must be brought and maintained in the City of Toronto, In the Province of Ontario.

25.
This instrument sets forth the entire understanding and agreement of the parties hereto in respect of the subject matter hereof, and all prior undertaking between the parties hereto, together with all representations and obligations of such parties in respect of such subject matter, shall be superseded by and merged into this instrument.

26.
The provisions of this agreement shall bind and ensure to the benefit of the parties hereto and their respective heirs, executors, administrators, successors and (subject to any restrictions or assignment herein above set forth) assigns, as the case may be.

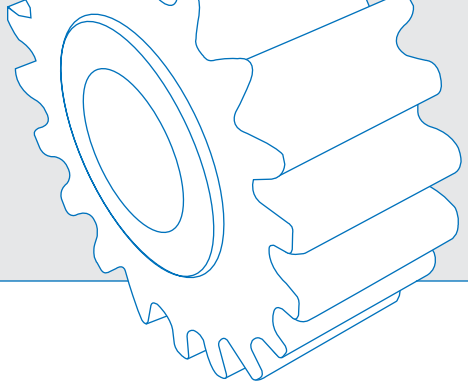
27.
The parties acknowledge that they have requested this document and all notices or other documents relating thereto be drafted in the English language.

Les parties reconnaissent qu'ils ont requis que ce contrat et tous les avis ou autres documents qui s'y rapportent soient rédiges en langue anglaise.

"Terms and Conditions in French available upon request."

Notes

Product Overview

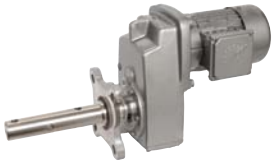


UNICASE™ SPEED REDUCERS

HELICAL IN-LINE
- Foot or Flange Mount
- Torque up to 205,000 lb-in
- Gear ratios – 1.82:1 to over 300,000:1

NORDBLOC®.1 HELICAL IN-LINE
- Foot or Flange Mount
- Torque up to 26,550 lb-in
- Gear ratios – 1.88:1 to over 370:1

PARALLEL HELICAL CLINCHER™
- Shaft, Flange or Foot Mount
- Torque up to 797,000 lb-in
- Gear ratios – 4.26:1 to over 300,000:1



SCP SCREW CONVEYOR PACKAGE
- Shaft, or Flange Mount
- Torque up to 53,100 lb-in
- Gear ratios – 4.32:1 to over 1500:1

RIGHT ANGLE HELICAL-BEVEL 2-STAGE
- Foot, Flange or Shaft Mount
- Torque up to 5,840 lb-in
- Gear ratios – 4.1:1 to 72:1

RIGHT ANGLE HELICAL-BEVEL
- Foot, Flange or Shaft Mount
- Torque up to 283,000 lb-in
- Gear ratios – 8.04:1 to over 300,000:1

RIGHT ANGLE HELICAL-WORM
- Foot, Flange or Shaft Mount
- Torque up to 27,585 lb-in
- Gear ratios – 4.40:1 to over 300,000:1

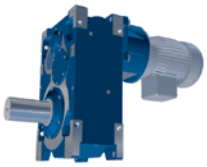
HIGH PERFORMANCE MOTORS & BRAKEMOTORS

INVERTER/VECTOR DUTY
- Standard or Energy Efficient
- Integral, NEMA or Metric IEC
- 1/6 to 250 hp

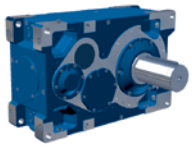
UNICASE™ SPEED REDUCERS

MINICASE™ RIGHT ANGLE WORM
- Foot, Flange or Shaft Mount
- Torque up to 3,540 lb-in
- Gear ratios – 5:1 to 500:1

FLEXBLOC™ WORM
- Modular bolt-on options
- Torque up to 4,683 lb-in
- Gear ratios – 5:1 to 3,000:1



MAXXDRIVE™ LARGE INDUSTRIAL GEAR UNITS PARALLEL HELICAL
- Modular bolt-on options
- Torque up to 2,027,000 lb-in
- Gear ratios – 5:1 to 1,600:1



MAXXDRIVE™ LARGE INDUSTRIAL GEAR UNITS HELICAL-BEVEL
- Modular bolt-on options
- Torque up to 2,027,000 lb-in
- Gear ratios – 5:1 to 1,600:1

NORDAC AC VECTOR DRIVES

SK200E FAMILY
- Distributed, high performance
- 380-480V, 3-phase to 30 hp
- 200-240V, 3-phase to 15 hp
- 200-240V, 1-phase to 1.5 hp
- 100-120V, 1-phase to 1 hp

SK500E FAMILY
- Compact, cabinet mount, high performance
- 380-480V, 3-phase, to 50hp
- 200-240V, 3-phase, to 25hp
- 200-240V, 1-phase, to 3hp
- 100-120V, 1-phase, to 1.5hp

DRIVESYSTEMS

www.nord.com

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info.us@nord.com

NORD Gear Limited

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info.ca@nord.com

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EAST
Charlotte, NC
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CANADA
Brampton, ON (Toronto)
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