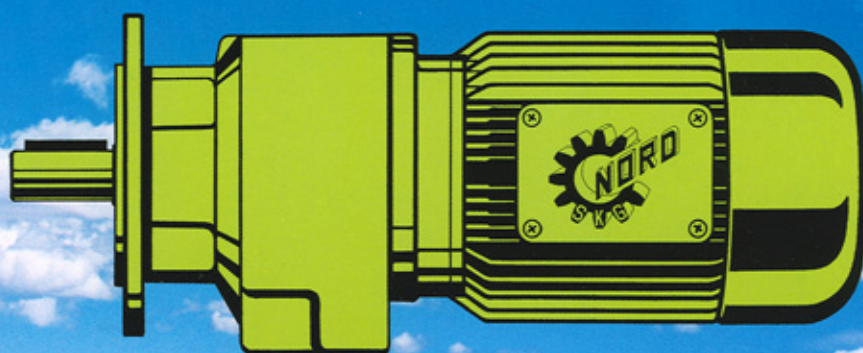
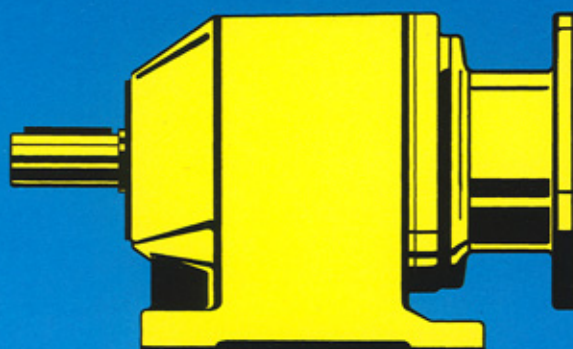
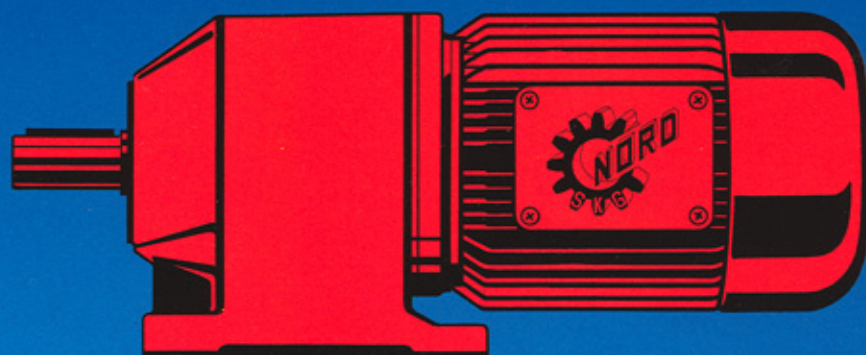


Constant speeds

NORDBLOC® 1011/2000



UNICASE



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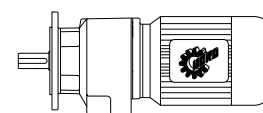
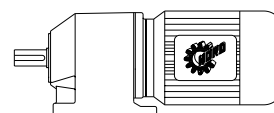
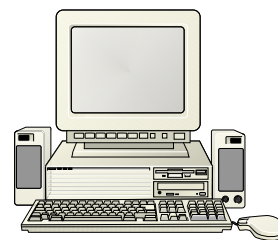
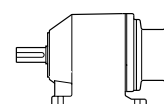
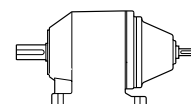


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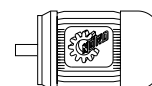


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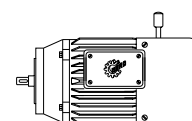
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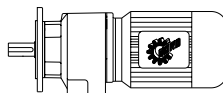
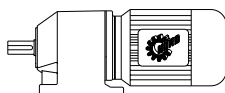
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EXPLANATORY NOTES



ENGINEERING DATA

Based on the proven UNICASE design NORD has developed the compact geared motor NORDBLOC.

Nine sizes are available in double- and triple-reduction design as foot- or flange-mount units. These drives cover the power range of 0.16 to 50.0 HP with torque capacities of 797 to 28320 Lb-in.

Consequent development of the UNICASE concept has created a new drive range which offers the user compact size combined with increased power density.

The third stage has been integrated in the main housing making available higher ratios, lower speeds and higher output torques within the compact size of the basic housing.

Easy interchangeability is guaranteed by coaxial inline input- and output - shafts and identical mounting dimensions of the double- and triple-reduction design. NORD originally developed the UNICASE design for helical-in-line, shaft-mount-, helical-bevel- and helical-worm-gearboxes back in 1980.

UNICASE design means a single (non-split) housing in which all bearings are located. Complete machining of this housing is achieved in a single setup on state-of-the-art CNC machining centers.

The UNICASE drives of NORD are precision machined to highest standards. Center distances of less than 10 µm are produced without problems.

NORDBLOC gearboxes come with reduced backlash as standard. This is achieved by following measures :

1. narrow tolerances
2. increased gearing quality
3. high rigidity of the gearset
4. extremely high rigidity of the UNICASE housing

These features ensure NORDBLOC gearboxes are ideal for use in applications requiring minimized backlash.

NORDBLOC gearboxes do not have any bearings in bolt-on flanges therefore eliminating torque- and overhung-load-stressed sealing surfaces. Drives from NORD, produced to the UNICASE concept offer decisive advantages to the user :

- great safety in operation
- highest output torques
- low noise level
- high overhung- and thrust-load capacity
- extended maintenance intervals
- long service life

MAX. PERMISSIBLE OUTPUT TORQUES $T_{2 \max}$ (see pages 57 - 65)

Helical gearboxes, double and triple reduction

Gearbox type	SK 172	SK 272	SK 372	SK 472	SK 572	SK 672	SK 772	SK 872	SK 972
$T_{2 \max}$ [Lb-in]	797	1239	1770	2832	3982	5310	7257	13806	24780
Gearbox type	SK 273	SK 373	SK 473	SK 573	SK 673	SK 773	SK 873	SK 973	
$T_{2 \max}$ [Lb-in]	1239	1947	2832	3982	5576	7655	14868	28320	

AGMA GEARMOTOR LOAD CLASSIFICATIONS

The AGMA rated parallel (helical) gearmotors in the catalog are grouped by Service Classes I, II or III.

Class I: (Minimum 0.8 Service Factor)

A gearmotor can operate with steady loads not exceeding the normal rating and 8 - 10 hours of running time per day.

Class II: (Minimum 1.4 Service Factor)

- a) A gearmotor can operate with steady loads not exceeding the normal rating and 24 hours of running time per day.
- or
- b) A gearmotor can operate with moderate shock loads not exceeding 1.25 x rated load torque and 8 - 10 hours of running time per day.

Class III: (Minimum 2.0 Service Factor)

- a) A gearmotor can operate with moderate shock loads which are a maximum 1.25 x rated load torque and 24 hours of running time per day.
- b) A gearmotor can operate with heavy shock loads in excess 1.25 x rated load torque and 8-10 hours of running time per day.

The Nord Gear units in the catalog grouped by AGMA service classes are applied per AGMA service factor listings as shown by 6010-E88 and 6034-A87. The high-speed gearing is finish ground to reduce noise levels to a minimum. The low-speed gears are skived per the latest finishing technology. In many cases the quality levels of the gearing exceeds AGMA quality levels 11-13.

AGMA GEAR REDUCER LOAD CLASSIFICATIONS

This chart is a guideline for the types of loads applied to the following:

Parallel (helical) reducers

SERVICE IN HOURS / DAY	LOAD CLASSIFICATION OF THE MACHINERY DESIGN			WHEN FREQUENT STOPS/ STARTS ARE APPLIED IN EXCESS OF 10 / HOUR		
	UNI-FORM	MODE-RATE SHOCK	HEAVY SHOCK	UNI-FORM	MODE-RATE SHOCK	HEAVY SHOCK
1/2 hours or less	0.8	0.8	1.0	0.8	1.0	1.25
2 hours intermittently	1.0	1.0	1.25	1.0	1.25	1.5
10 hours	1.0	1.25	1.5	1.25	1.5	1.75
24 hours	1.25	1.5	1.75	1.5	1.75	2.0

ENGINE DRIVEN APPLICATIONS

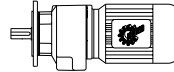
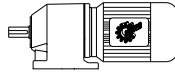
For multiple cylinder engine drive applications, the service factors are greater than those shown above for electric motor drives. Service factors for multiple cylinder engine drives may be determined from the conversion table below.

	8 - 10 hour service		24 hour service	
	Electric Motor Drive	Multiple Cylinder Engine *	Electric Motor Drive	Multiple Cylinder Engine *
Uniform	1.00	1.25	1.25	1.50
Moderate	1.25	1.50	1.50	1.75
Heavy	1.75	2.00	1.75	2.00

* These service factors apply essentially to driven applications without extreme variations.

For application assistance refer to the factory.

GEAR MOTOR LOAD CLASSIFICATION

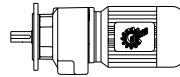
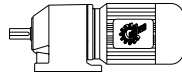
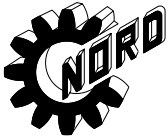


APPLICATION	CLASS OF SERVICE		APPLICATION	CLASS OF SERVICE		APPLICATION	CLASS OF SERVICE	
	3 - 10 HRS/DAY	10 - 24 HRS/DAY		3 - 10 HRS/DAY	10 - 24 HRS/DAY		3 - 10 HRS/DAY	10 - 24 HRS/DAY
AGITATORS			Bucket	II	II	Cereal Cooker	I	II
Pure Liquids	I	II	Chain	II	II	Dough Mixer	II	II
Liquids & Solids	II	II	Flight	II	II	Meat Grinders	II	II
Liquids —			Live Roll (pack	I	II	GENERATORS —		
Variable Density	II	II	age)	II	II	(Not Welding)	I	II
Semi-Liquids —			Oven	III	III*	HAMMER MILLS	III	III*
Variable Density	II	II*	Reciprocating	II	II	LAUNDRY WASHERS		
BLOWERS			Screw	III	III*	Reversing	II	II
Centrifugal	I	II	Shaker			LAUNDRY TUMBLERS	II	II
Lobe	II	II	CRANES & HOISTS			LINE SHAFTS		
Vane	I	II	Main Hoists	III	III*	Heavy Shock Load	III	III*
BREWING & DISTILLING			Heavy Duty	II	II	Moderate Shock Load	II	II
Bottling Machinery	I	II	Medium Duty	II	II	Uniform Load	I	II
Brew Kettles —			Reversing	II	II	LUMBER INDUSTRY		
Continuous Duty	—	II	Skip Hoists	II	II*	Barkers —		
Cookers —			Trolley Drive	II	II*	Spindle Feed	II	III
Continuous Duty	—	II	Bridge Drive			Barkers-Main Drive	III	III*
Mash Tubs			CRUSHERS	III	III*	Carriage Drive	*	*
Continuous Duty	—	II	Ore	III	III*	Conveyors-Burner	II	III
Scale Hopper			Stone			Conveyors-Main or		
Frequent starts	II	II	DREDGES	II	—	Heavy Duty	II	III
CAN FILLING MACHINES	I	II	Cable Reels	II	II	Conveyors-Main Log	III	III*
CANE KNIVES	II	II	Conveyors	III	III*	Conveyors —		III
CAR DUMPERS	III	—	Cutter Head Drives	III	III*	Merry-go-Round	II	III*
CAR PULLERS —			Jig Drives	II	—	Conveyors-Slab	III	III*
Intermittent duty	I	—	Maneuvering Winches	II	II	Conveyors-Transfer	II	III
CLARIFIERS	I	II	Pumps	III	III*	Conveyors-Waste	II	II
CLASSIFIERS	II	II	Screen Drive	II	II	Chains-Floor	II	III
CLAY WORKING			Stackers	II	—	Chains-Green	II	III
MACHINERY			Utility Winches			Cut-Off Saws-Chain	II	III
Brick Press	III	III*	ELEVATORS	I	II	Cut-Off Saws-Drag	II	III
Briquette Machine	III	III*	Bucket-Uniform Load	II	II	Debarking Drums	III	III*
Clay working machinery	II	II	Bucket-Heavy Load	I	II	Feeds-Edger	II	III
Pug Mill	II	II	Bucket-Continuous	I	II	Feeds-Gang	III	III*
COMPRESSORS			Centrifugal Discharge	I	II	Feed-Trimmer	II	III
Centrifugal	I	II	Escalators	II	II	Log Deck	III	III*
Lobe	II	II	Freight	I	II	Log Hauls-Well Type	III	III*
Reciprocating			Gravity Discharge	*	*	Log Turning Devices	III	III*
Multi-cylinder	II	II*	Man Lifts	*	*	Planer Feed	II	III
Single Cylinder	III	III*	Passengers	III	—	Planer Tilting Hoist	II	III
CONVEYORS—			Service-Hand Lift			Rolls-Live-Off		
UNIFORMLY LOADED			FANS	II	II	Brg.-Roll Cases	III	III*
OR FED			Centrifugal			Sorting Table	II	III
Apron	I	II	Cooling Towers	II	II	Tipple Hoist	II	III
Assembly	I	II	Induced Draft	*	*	Transfers-Chain	II	III
Belt	I	II	Forced Draft	II	II	Transfers-Craneway	II	III
Bucket	I	II	Induced Draft	II	II*	Tray Drives	II	III
Chain	I	II	Large (Mine, etc.)	II	II*	Veneer Lathe Drives	*	*
Flight	I	II	Large Industrial	I	II	MACHINE TOOLS		
Oven	I	II	Light (Small Diameter)			Bending Roll	II	II
Screw	I	II	FEEDERS	II	II	Notching Press —		
CONVEYORS—			Apron	II	II	Belt Driven	*	*
HEAVY DUTY NOT			Belt	I	II	Plate Planer	III	III*
UNIFORMLY FED			Disc	III	III*	Punch Press —		
Apron	II	II	Reciprocating	II	II	Gear Driven	III	III
Assembly	II	II	Screw			Tapping Machines	III	III*
Belt	II	II	FOOD INDUSTRY	II	II			
			Beet Slicer					

* Refer to factory

Applications requiring frequent stops and starts, high inertia loads or oversized brakes or clutches (exceeding motor full load torque) should be referred to NORD GEAR for review.

GEAR MOTOR LOAD CLASSIFICATION

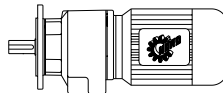


APPLICATION	CLASS OF SERVICE		APPLICATION	CLASS OF SERVICE		APPLICATION	CLASS OF SERVICE	
	3 - 10 HRS/DAY	10 - 24 HRS/DAY		3 - 10 HRS/DAY	10 - 24 HRS/DAY		3 - 10 HRS/DAY	10 - 24 HRS/DAY
Other Machine Tools			Conveyors	—	II	Vacuum Filters	II	II
Main Drives	II	II	Conveyors, Log	—	III*	SCREEN		
Auxiliary Drives	I	II	Couch	—	II*	Air Washing	I	II
METAL MILLS			Cutters, Platers	—	III*	Rotary —		
Bridle Roll Drives	III	III*	Cylinders	—	II	Stone or Gravel	II	II
Draw Bench-Carriage	III	III*	Dryers	—	II*	Traveling Water		
Draw Bench —			Felt Stretcher	—	II	Intake	I	II
Main Drive	III	III*	Felt Whipper	—	III*	SLAB PUSHERS	II	II
Forming Machines	III	III*	Jordans	—	II	STEERING GEAR	II	II
Pinch Dryer &			Presses	—	II*	STOKERS	I	II
Scrubber Rolls,			Pulp Machines, Reel	—	II	TEXTILE INDUSTRY		
Reversing	*	*	Stock Chests	—	II	Batchers	II	II
Slitters	II	II	Suction Roll	—	II*	Calenders	II	II
Table Conveyors			Washer & Thickeners	—	II*	Card Machines	II	II*
Non-Reversing	II	III	Winders	—	II	Cloth Finishing		
Reversing	—	III	PRINTING PRESSES	I	II	Machines,		
Winding Reels-Strip	—	III	PULLERS			(Washer, pads,		
Wire Drawing &			Barge Haul	III	III*	tenters)		
Flattening Machine	II	III	PUMPS			(Dryers, Calenders,		
Wire Winding			Centrifugal	I	II	etc.)	II	II
Machine	II	II	Proportioning	II	II*	Dry Cans	II	II
MILLS, ROTARY TYPE			Reciprocating			Dryers	II	II
Ball	III	III*	Single Acting 3 or			Dyeing Machinery	II	II
Cement Kilns	*	*	More Cylinders	II	II	Knitting Machines		
Dryers & Coolers	II	II	Double Acting 2 or			(looms, etc.)	*	*
Kilns	II	II	More Cylinders	II	II	Looms	II	II
Pebble	III	III*	Single Acting 1 or			Mangles	II	II
Rod	III	III*	2 Cylinders	*	*	Nappers	II	II
Tumbling Barrels	III	III*	Double Acting			Pads	II	II
MIXER			Single Acting	*	*	Range Drives	*	*
Concrete Mixers,			Rotary — Gear Type	I	II	Slashers	II	II
Continuous	II	II	— Lobe, Vane	I	II	Soapers	II	II
Concrete Mixers,			RUBBER INDUSTRY			Spinners	II	II
Intermittent	I	—	Mixer	III	III*	Tenter Frames	II	II
Constant Density	I	II	Rubber Calender	II	II*	Washer	II	II
Variable Density	II	II	Rubber Mill			Winders (other than	II	II
OIL INDUSTRY			(2 or more)	II	II*	(Batchers)		
Chillers	II	II	Sheeter	II	II*	Yarn Preparatory		
Oil Well Pumping	*	*	Tire Building Machines	*	*	Machines (Cards,		
Paraffin Filter Press	II	II	Tire & Tube			Spinners, Slashers,		
Rotary Kilns	II	II	Press Openers	*	*	etc.)	II	II
PAPER MILLS			Tubers & Strainers	II	II	WINDLASS	II	II*
Aerators	*	*	SEWAGE DISPOSAL					
Agitators (Mixers)	II	II	EQUIPMENT					
Barker Auxiliaries,			Aerators	*	*			
Hydraulic	—	III	Bar Screens	I	II			
Barker, Mechanical	—	III	Chemical Feeders	I	II			
Barking Drum	—	III*	Collectors, Circuline					
Beater & Pulper	—	II*	or Straightline	I	II			
Bleacher	—	II	Dewatering Screens	II	II			
Calenders	—	II*	Grit Collectors	I	II			
Calenders-Super	—	II	Scum Breakers	II	II			
Converting Machines,			Slow or Rapid Mixers	II	II			
except Cutters,			Sludge Collectors	I	II			
Platters	—	II	Thickeners	II	II			

* Refer to factory

Applications requiring frequent stops and starts, high inertia loads or oversized brakes or clutches (exceeding motor full load torque) should be referred to NORD GEAR for review.

EXPLANATORY NOTES



SELECTION PROCEDURES

Criteria for selection of the gearboxes are:

- 1) mechanical power - service factor shown in the tables in catalog
- 2) thermal power limit - depending on
 - a) mounting position e.g. V5/V6/V (oil quantity)
 - b) the ratio $i \leq 20 : 1$ (increased splashing losses)
 - c) the actual continuous operating time $> 3h$ (thermal load)

Please contact application engineering for gearbox types marked *.

Higher powers possible with short term operation. For continuous operation special features (optimal oil-level, oil-cooler etc.) may be required, please consult factory.

Each application requires either the calculation or the measurement of the required motor power. Base the motor selection on the above power requirement. Intermittent shock loading should not be considered for motor power determination.

On the other hand, it is important to consider the type of loading when selecting the gearbox size. The service factor f_B can be determined by taking into account the factor of inertia m_{af} as well as cycles/ hour and the operating time.

Type of loading for gearboxes and geared motors:

- A** Light conveyor screws, fans, assembly lines, light conveyor belts, small agitators, elevators, cleaning machines, filling machines, inspection machines, belt conveyors.

- B** Coilers, feed-mechanism drivers for wood- working machines, dumbwaiters, balancing machines, thread cutting machines, medium-sized agitators and mixers, heavy conveyor belts, winches, sliding doors, manure scrapers, packing machines, concrete mixers, crane traveling mechanisms, mills, bending machines, gear pumps.

- C** Heavy mixers, shears, presses, centrifuges, rolling stands, heavy winches and lifts, grinding mills, stone crushers, bucket elevators, punching machines, hammer mills, eccentric presses, folding machines, roller tables, tumbling barrels, vibrators, shredders.

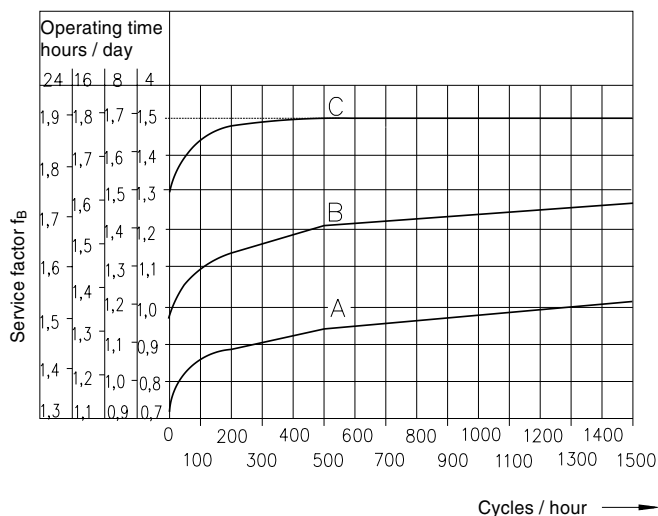
Other machines should be associated to one of the three groups, depending on the type of load they represent.

The service factor is the quotient of maximum output torque and nominal output torque where nominal output torque is defined as the quotient of power and output speed.

$$\text{Output torque } T_2 = \frac{63025 \cdot P \cdot \eta}{n_2} \quad \begin{matrix} P \text{ [HP]} \\ \text{[Lb} \cdot \text{in]} \end{matrix}$$

$$\text{Service factor } f_B = \frac{T_{2 \text{ max}}}{T_2} \quad n_2 \text{ [RPM]}$$

To select the correct gearbox the service factor taken from the diagram must be less than or at maximum equal the service factor which is listed in the selection charts at the appropriate speed. The listed overhung load values are based on a service factor $f_B = 1$.



TYPE OF LOADING:

MASS ACCELERATION FACTOR:

- | | | |
|----------|----------------|---------------------|
| A | uniform | $m_{af} \leq 0.25$ |
| B | moderate shock | $m_{af} \leq 3.00$ |
| C | heavy shock | $m_{af} \leq 10.00$ |

$$m_{af} = \frac{I_{\text{ex. red.}}}{I_{\text{Mot.}}}$$

$I_{\text{ex. red.}}$ = all external inertia moments corrected to motor input

I_{Mot} = moment of inertia of the motor

Solid input shaft and NEMA C-face adapters

The powers listed refer to W - Types. For NEMA C-face the standard powers refer to frame sizes by industry standards.

C-face adapter couplings are not fail - safe. For hoist- and lift- applications please contact factory.

OVERHUNG LOADS

The following table lists the overhung loads for foot and flange mounted units. Loads are calculated as applied to the midpoint of the shaft. The listed values are based on service factor $f_B = 1$. For shock loading applications the service factor has to be taken into consideration.

The permissible overhung load values listed are based on the least favorable loading direction. For higher overhung load values please contact the factory with the exact loading direction and required life expectancy.

If there are transmission elements connected to the output shaft a factor f_z has to be taken into account when calculating the applied overhung load.

The effective overhung load at the gearbox shaft will be determined as follows:

$$F_{Q \text{ exis.}} = \frac{2 \cdot T_2}{d_o} \cdot f_z \leq F_{Q \text{ perm}}$$

$F_{Q \text{ exis.}}$ Existing overhung load at the gearbox shaft [Lb]

$F_{Q \text{ perm}}$ perm. overhung load values from selection table [Lb]

T_2 output torque of gearbox [Lb-in]

f_z coefficient from table

d_o dia of overhung load member [in]

EXPLANATORY NOTES

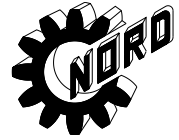
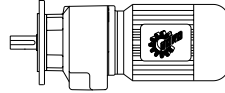
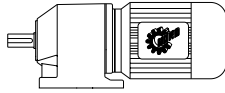


Table for f_z

Transmission elements	Factor f_z	Notes
Gears	1.1	$z \leq 17$ teeth
Sprockets	1.4	$z \leq 13$ teeth
Sprockets	1.2	$z \leq 20$ teeth
Timing belt pulleys	1.3	
Narrow V-belt pulleys	1.7	pre-tension
Flat belt pulleys	2.5	

If the load is not applied at the midpoint of the shaft, the permissible overhung load value can be calculated for any-point on the shaft ($=x$) by using the following equation I and II.

Equation I
$$F_{QXL} = F_Q \cdot \frac{z}{y + x}$$

Equation II
$$F_{QXW} = \frac{c}{f + x}$$

F_{QXL} permiss. overhung load values at point x - working life [Lb]

F_{QXW} permiss. overhung load values at point x - shaft strength [Lb]

F_Q permiss. overhung load from table, application of force at center of shaft [Lb]

x distance from shaft shoulder to the point where the load is applied [in]

c } for factors see table [Lb-in]
f } [in]
y } [in]
z } [in]

Please note that after calculating equation I (life) and equation II (shaft strength) the lower of the two results is the permissible overhung load value.

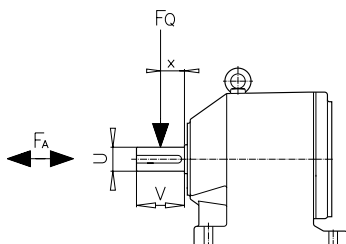
Heavy Duty Bearing Type VL and AL

The NORDBLOC units are also available with heavy duty output bearings. For the sizes SK 272 to 573 there are options for heavy duty bearings, which are suitable for axial loads as well as for radial loads. For the sizes SK 672 and up there are two different options for heavy duty bearings:

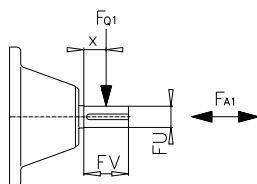
- 1) heavy duty bearing-radial load VL
- 2) heavy duty bearing-axial load AL

The usage of heavy duty bearing for the mounting positions V3 and V6 must be checked as a special case. Please contact your local sales office.

The heavy duty bearing options use high load type roller bearings, which require a minimum load to avoid slip of the rolling element. Therefore the load when using heavy duty bearing needs to be at least 5% of the stated maximum values F_{QVL} respectively F_{VAL} . If the load is less than this minimum, the standard bearing should be selected.

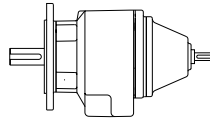
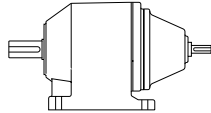
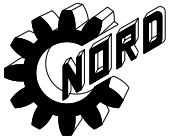


CONVERSION TABLE FOR OVERHUNG LOADS AT OUTPUT SHAFT								
Gearbox type	y	z	c	c	f	f	U	V
	[in]	[in]	normal [Lb-in]	heavy duty [Lb-in]	normal [in]	heavy duty [in]	[in]	[in]
SK 172	2.087	2.874	619	--	0.394	--	0.750	1.57
SK 272	2.461	3.445	1150	3097	0.551	1.181	1.000	1.97
SK 273	2.697	3.681	1150	1593	0.512	0.512	1.000	1.97
SK 372	2.461	3.445	1062	3009	0.551	1.181	1.000	1.97
SK 373	2.657	3.642	1062	1504	0.512	0.512	1.000	1.97
SK 472	2.500	4.350	1947	4602	0.669	0.472	1.250	2.36
SK 473	3.973	5.315	3097	4602	1.043	1.161	1.250	2.36
SK 572	3.150	4.547	3009	4513	0.728	0.472	1.375	2.75
SK 573	4.134	5.512	2832	5044	1.043	1.161	1.375	2.75
SK 672	3.583	4.961	2478	5664	0.669	1.220	1.375	2.75
SK 673	3.973	5.315	2389	3894	0.787	0	1.375	2.75
SK 772	3.854	5.429	3186	7434	0.630	1.260	1.625	3.15
SK 773	4.094	5.669	3097	5310	0.827	0.906	1.625	3.15
SK 872	4.744	6.713	8850	18673	1.024	1.890	2.125	3.94
SK 873	5.906	7.874	5487	8230	1.220	0	2.125	3.94
SK 972	5.472	7.835	13894	26550	1.299	2.283	2.375	4.72
SK 973	6.417	8.780	9381	14160	1.220	0	2.375	4.72



CONVERSION TABLE FOR OVERHUNG LOADS AT INPUT SHAFT						
Gearbox type	y [in]	z [in]	c [Lb-in]	FU [in]	FV [in]	f [in]
SK 172	2.303	3.091	239	0.500	1.13	0
SK 272	2.303	3.091	327	0.625	1.57	0
SK 273	2.303	3.091	371	0.625	1.57	0
SK 372	2.303	3.091	327	0.625	1.57	0
SK 373	2.303	3.091	371	0.625	1.57	0
SK 472	2.343	3.130	522	0.750	1.57	0
SK 473	2.343	3.130	575	0.750	1.57	0
SK 572	2.343	3.130	486	0.750	1.57	0
SK 573	2.343	3.130	575	0.750	1.57	0
SK 672	2.343	3.130	238	0.750	1.57	0
SK 673	2.343	3.130	557	0.750	1.57	0
SK 772	2.717	3.701	964	0.875	1.97	0
SK 773	2.717	3.701	1088	0.875	1.97	0
SK 872	4.055	5.236	2433	1.125	2.36	0.63
SK 873	4.055	5.236	2601	1.125	2.36	0.63
SK 972	5.413	7.008	4761	1.375	3.15	0.71
SK 973	5.413	7.008	5068	1.375	3.15	0.71

EXPLANATORY NOTES



Load Ratings on Solid Input Shafts

Permissible Overhung Loads F_{Q1} *

Gearbox Size	Motor Power (HP)																	
	0.16	0.25	0.33	0.5	0.75	1	1.5	2	3	5	7.5	10	15	20	25	30	40	50
SK 172	124	122	119	113	106	98	83	68										
SK 272 to SK 373	191	185	176	169	162	158	136	97	95	52								
SK 472 to SK 673	479	473	466	461	448	434	407	414	389	362	230	225						
SK 772 & SK 773	517	495	473	466	495	450	439	428	410	394	338	293	158	90				
SK 872 & SK 873							722	671	637	605	473	401	297	279	209	137		
SK 972 & SK 973							1006	954	938	866	684	621	457	416	360	326	232	194

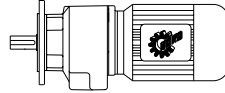
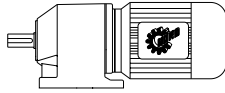
* at the midpoint of the shaft and with no axial load

Permissible Axial (Thrust) Loads F_{A1} **

Gearbox Size	Motor Power (HP)																	
	0.16	0.25	0.33	0.5	0.75	1	1.5	2	3	5	7.5	10	15	20	25	30	40	50
SK 172	124	122	119	113	106	98	83	68										
SK 272 to SK 373	191	185	176	169	162	158	136	97	95	52								
SK 472 to SK 673	479	473	466	461	448	434	407	414	389	362	230	225						
SK 772 & SK 773	517	495	473	466	495	450	439	428	410	394	338	293	158	90				
SK 872 & SK 873							722	671	637	605	473	401	297	279	209	137		
SK 972 & SK 973							1006	954	938	866	684	621	457	416	360	326	232	194

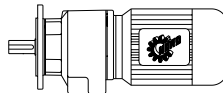
** with no overhung load

EXPLANATORY NOTES



GEAR TYPE	GEAR DESIGN
FOOT MOUNTED SK 172 - SK 972 = Helical Gearboxes double reduction, foot mounted SK 273 - SK 973 = Helical Gearboxes triple reduction, foot mounted	Flange mounting B14 Foot/Flange mounting B3 / B14 Foot/Flange mounting B3 / B5
FLANGE MOUNTED SK 172 F - SK 972 F = Helical Gearboxes double reduction, flange mounted Flange B5 SK 273 F - SK 973 F = Helical Gearboxes triple reduction, flange mounted Flange B5	Reinforced bearing radial VL Reinforced bearing axial AL

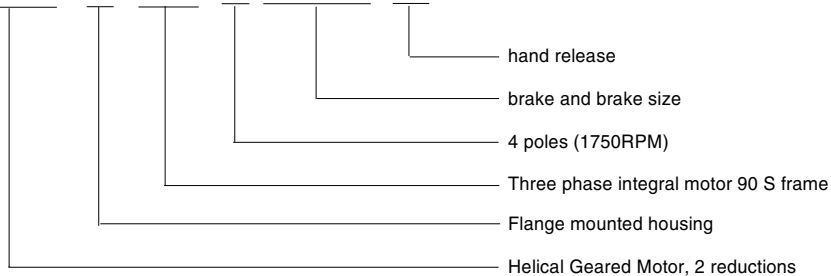
EXPLANATORY NOTES



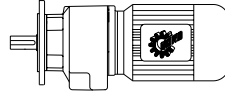
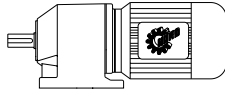
INPUT OPTIONS	MOTOR	NUMBER OF POLES	INTEGRAL MOTOR OPTIONS
W = solid input shaft C - Face Motor Adapters = 56 C 280 TC Metric Motor Adapters = IEC 63 IEC 200	Integral Motors = 63 S 225 S C - Face Motors = 56 C 286 TC IEC Motors = 63 200 High Efficiency Integral Motors = 80 LH.....225 SH	4 = 4 - poles (1750) other pole combinations on request	BRE = with brake RG = Brake corrosion-protected SR = Brake dust-proof HL = Brake motor with hand release TF = Thermistors TW = Thermostat WE = 2 nd motor shaft end WU = Soft start rotor Z = high inertia fan EF = Blower fan, single phase 230 V, IP 54 63 - 132 frames only ZF = Blower fan, 2- phase 460 V, IP 56 63, 71 and 80 frames only DF = Blower fan, 3-phase 460 V, IP 56 90 - 160 frames only IG = Incremental encoder FK = Overrunning clutches RLS = Backstop

EXAMPLE WHEN ORDERING:

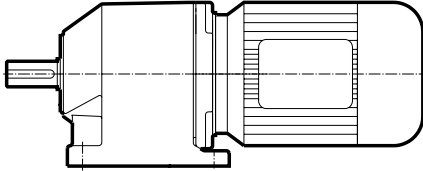
SK 472 F - 90 S/ 4 BRE 20 HL



EXPLANATORY NOTES



1

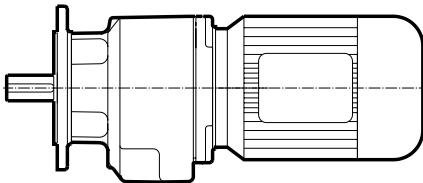


SK 472 - 90 S/4

Helical Gearmotor, double reduction, foot mounting

also available Foot/flange mounting (B3/B14 or B3/B5) see page 77

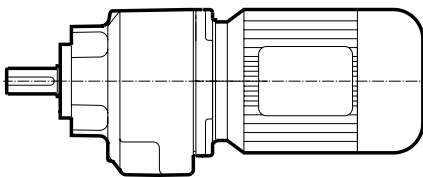
2



SK 472 F - 90 S/4

Helical Gearmotor, double reduction, bolt-on B5 flange mounting

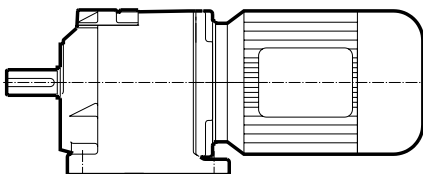
3



SK 472 Z - 90 S/4

Helical Gearmotor, double reduction, integral flange mounting, B14
see page 76

4

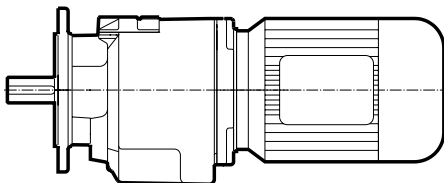


SK 473 - 71 S/4

Helical Gearmotor, triple reduction, foot mounting

also available Foot/flange mounting (B3/B14 or B3/B5) see page 77

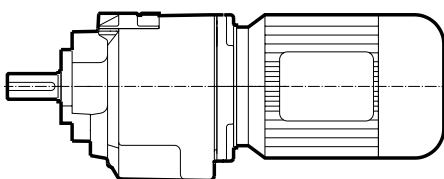
5



SK 473 F - 71 S/4

Helical Gearmotor, triple reduction, bolt-on B5 flange mounting

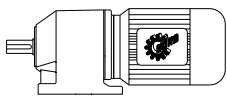
6



SK 473 Z - 71 S/4

Helical Gearmotor, triple reduction, integral flange mounting, B14
see page 76

Helical Gearboxes are also available
- with solid input shaft (suffix - W)
- with NEMA C-face adapters



HELICAL GEAR UNITS



MOUNTING POSITION

HORIZONTAL POSITION



B 3		B 6		B 7	
B 8		B 5		B 5 I	
B 5 II		B 5 III			



VERTICAL POSITION

V 1		V 3		V 5	
V 6		Mounting positions V1 or V5 may include lubricant expansion unit (see page 79)			

Gear units SK 172 - SK 373 have no vent or drain plugs.

Symbols:

Vent plug



Oil level



Drain plug

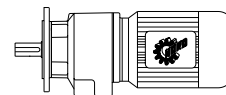


Mounting surface





HELICAL GEAR UNITS



POSITION OF TERMINAL BOX AND CABLE ENTRY

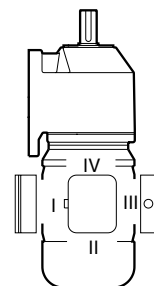
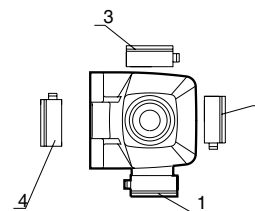
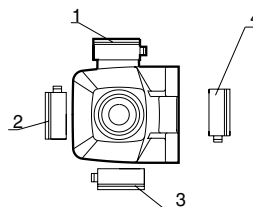
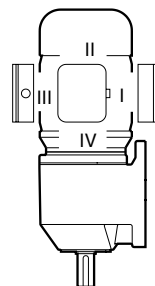
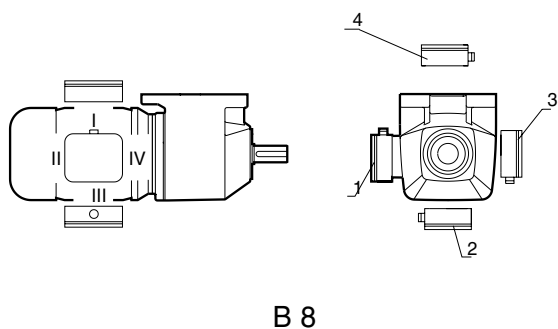
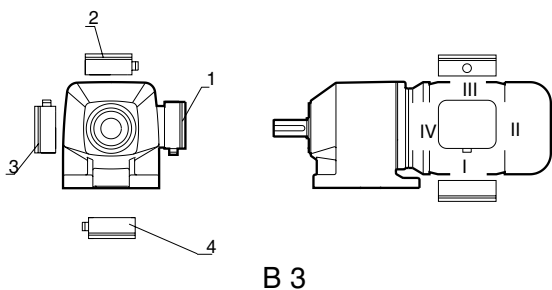
Integral motor design:

Unless otherwise specified the terminal box is at 1, cable entry is at I.

If other positions are required, please specify when ordering.

NEMA C-face motor:

Unless otherwise specified the terminal box is at 3, cable entry is at I
Cable entry is possible only at I or III.

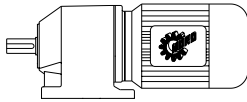


PAINT COATINGS

Type	Finish	Recommendation
Finish 1 primed only	Pack dip - primer (red - brown)	For top - coat to be applied by customer
Finish 2 standard	Pack dip - primer Top coat of stainless steel metallic silver grey acrylic	For normal ambient conditions indoors and outdoors USDA authorized for incidental contact
Finish 3 severe duty	Pack dip - primer (2) coats of stainless steel metallic silver grey acrylic	For indoor and outdoor use and hose - down applications and food industry USDA authorized for incidental contact

Additional precautions for Finish of type 1-3:

Unless otherwise noted, mounting surfaces are painted.
Shaft ends are provided with anti-rust paint.



HELICAL GEAR UNITS



LUBRICATION

APPROXIMATE CAPACITY [Quarts]

(For mounting positions see page 12)

	Helical Gearboxes. double reduction											
	Horizontal position								Vertical position			
	B 3	B 6	B 7	B 8	B 5	B 5I	B 5II	B 5III	V 1	V 3	V 5	V 6
SK 172	0.37	0.53	0.53	0.53	0.37	0.53	0.53	0.53	0.53	0.53	0.53	0.53
SK 272	0.63	1.06	1.09	1.06	0.63	1.06	1.06	1.06	1.06	1.06	1.06	1.06
SK 372	0.63	1.06	1.06	1.06	0.63	1.06	1.06	1.06	1.06	1.06	1.06	1.06
SK 472	1.06	1.90	1.90	2.01	1.06	2.01	2.01	1.59	2.01	2.01	2.11	2.01
SK 572	1.06	1.90	1.90	2.01	1.06	2.01	2.01	1.59	2.01	2.01	2.11	2.01
SK 672	1.48	3.81	3.81	3.81	1.48	3.81	3.81	3.81	3.81	3.81	3.81	3.81
SK 772	2.11	2.85	3.49	3.70	1.69	3.70	3.28	3.28	3.49	3.49	4.44	3.49
SK 872	3.91	4.97	8.46	9.62	3.70	8.35	4.12	7.61	8.14	9.51	7.72	10.15
SK 972	6.87	8.98	14.80	16.59	6.87	13.74	6.87	12.68	14.27	15.86	15.54	16.91
	Helical Gearboxes. triple reduction											
	B 3	B 6	B 7	B 8	B 5	B 5I	B 5II	B 5III	V 1	V 3	V 5	V 6
SK 273	0.66	1.16	1.16	1.16	0.66	1.16	1.16	1.16	1.16	1.16	1.16	1.16
SK 373	0.58	1.16	1.16	1.16	0.58	1.16	1.16	1.16	1.16	1.16	1.16	1.16
SK 473	1.37	2.22	2.22	2.22	1.32	2.22	2.22	2.22	2.64	2.54	2.54	2.64
SK 573	1.37	2.22	2.22	2.22	1.32	2.22	2.22	2.22	2.64	2.54	2.54	2.64
SK 673	1.90	2.96	2.96	2.96	1.80	3.38	3.38	3.38	3.38	3.81	3.38	3.38
SK 773	2.64	3.49	3.49	3.91	2.43	3.81	4.12	4.12	4.76	5.29	4.86	4.76
SK 873	4.76	7.93	7.93	7.93	5.29	8.03	8.46	8.46	8.46	9.30	9.62	8.88
SK 973	8.46	14.06	13.74	13.74	7.40	13.74	14.80	14.80	16.91	17.44	16.91	16.70

The standard lubrication is mineral-oil (viscosity class ISO VG 220. ambient temperature - 5°C to 40°C).
Synthetic-oil available at surcharge.

REMARK:

Filling quantities are approx. figures. Oil level must be checked according to oil-level plug.



LUBRICATION

All Nord Gear Motors and Speed Reducer leave the factory filled with lubricant adjusted according to the mounting position shown on page 12.
Gear units have mineral oil ISO 220 grade as a standard lubricant.

When other lubricants are selected please specify the ISO grade and the type of lubricant.

Mineral based lubricant should be changed every 10.000 service hours or after two years. For synthetic oils, the lube should be changed every 20.000 service hours or after four years. In case of extreme operating conditions (e.g. high humidity, aggressive environment or large temperature variations), shorter intervals between changes are recommended. It is advisable to combine lubricant change with a thorough cleaning of the gear unit. Bearings filled with grease must also be cleaned as scheduled above and packed with fresh grease.

Ensure that the bearing cavity is packed to about 1/3 full with grease.

Note: Synthetic and mineral based lubricants must do not mixed !

Type of lubricant	Ambient temperature °C				TEXACO			Mobil			TRIBOL
Mineral oil	- 5... 40 (normal) ISO VG 220	Degol BG 220	Energol GR-XP 220	Alpha SP 220 Alpha MW 220 Alpha MAX 220	Meropa 220	Spartan EP 220	Klüberoil GEM 1-220	Mobilgear 630	Optigear BM 220	Shell Omala 220	Tribol 1100 / 220
	- 15 ... 25 ISO VG 100	Degol BG 100	Energol GR-XP 100	Alpha SP 100 Alpha MW 100 Alpha MAX 100	Meropa 150	Spartan EP 100	Klüberoil GEM 1-100	Mobilgear 629	Optigear BM 100	Shell Omala 100	Tribol 1100 / 100
	* - 50 ... - 15 ISO VG 15	Vitolol 1010	Bartran HV15	Hyspin AWS 15 Hyspin SP 15 Hyspin ZZ 15	Rando HGZ 15	Univis J 13	Isoflex MT 30 rot	Mobil DTE 11 M	Optimol Ultra 10	Shell Tellus T15	Tribol 943 AW 22
Synthetic Oil	- 25... 80 ISO VG 220	Degol GS 220	Energol SG-XP 220	Alphasyn PG 220	Pinnacle EP 220	Glycolube 220	Klübersynth GH 6-220	SHC 630	Optiflex A 220	Shell Tivela WB	Tribol 800 / 220
Biodegradable oil	- 25... 80 ISO VG 220	Degol BAB 220	Biogear SE 220	Carelube GES 220			Klüber-Bio GM2 - 220		Optisynth BS 220		Tribol Bio Top 1418 / 220
Food grade oil ¹⁾	- 25 ... 80 ISO VG 220	Eural Gear 220		Vitalube GS 220	Cygnus 220	GEAR OIL FM 220	Klüberoil 4UH1 - 220 Klübersynth UH1 -6- 220	Mobil DTE FM 220	Optileb GT 220	Shell Cassida Fluid GL 220	Tribol Food Proof 1810 / 220 oder 1800 / 220
Synthetic fluid grease	- 35... 60	Aralub BAB EP0	Energol GSF	Alpha Gel 00	Starfak 220	Fließfett S 420	Klübersynth GE 46-1200	Glygoyle Grease 00	Obeen UF 00	Shell Tivela compound A Tivela GL 00	Tribol 800 / 1000
ANTI FRICTION BEARINGS											
Grease (mineral oil base)	- 30 ... 60 (normal)	Aralub HL 2	Energol LS 2	Speerol AP - 2 LZV - EP	Premium RB	Mehrzweckfett Beacon 2	Centoplex 2	Mobilux 3	Longtime PD 2	Shell Alvania R 2 oder RL 2	Tribol 4020 / 220 - 2
	* - 50 ... 110	Aralub SEL 2		Speerol EPL - 2			Centoplex 1DL	Mobilux 2			Tribol 3785
Synthetic grease	* - 50 ... 110	Aralub SKL 2		Product 783/46	Starfak Lowtemp EP	Beacon 325	Isoflex Topas NB 52	Mobiltemp SHC 32	Optitemp LG 2	Aero Shell Grease 16 oder 7	Tribol 3499
Biodegradable grease	- 20 ... 120	Aralub BAB EP 2	BP Biogrease EP 2	Biotec			Klüberbio M 32 - 82	Schmierfett UE 100 B		Shell Alvania RLB 2	Molub - Alloy Bio Top 9488
Food grade grease ¹⁾	- 20 ... 120	Eural Grease EP 2	BP Energol FM 2	Vitalube HT Grease 2	Cygnus 2	Carum 330	Klübersynth UH1 14 - 151	Mobilgrease FM 102	Obeen UF 2	Shell Cassida RLS 2	Molub - Alloy Food Proof 823 - 2 FM

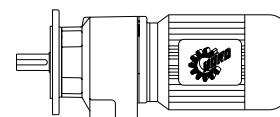
¹⁾ Food grade lubricants with USDA-H1 approval: H1 / FDA 178.3570

* With ambient temperatures below - 30° C and above approx. 60° C, special oil seals must be used.



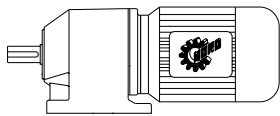
HELICAL GEAR MOTORS

THREE PHASE



Power	Output speed **			Output torque	Service factor	Red. Ratio	Standard bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3 [LBS]	Dimensions page
[HP]	n ₂ [RPM]			T ₂	f _B	i _{total}	F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q VL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust			
	AGMA			[LB-IN]			[LBS]	[LBS]	[LBS]	[LBS]			
	I	II	III										
0.16			4.8	2097	2.7	340.54	1413	1721	1886	4500	SK 673 - 63S/4	71	52 / 53
			5.3	1903	2.1	309.58	1501	1721	2475	3263	SK 573 - 63S/4	54	52 / 53
			6.7	1505	2.6	244.95	1517	1721	2475	3263			
		5.3		1903	1.5	309.58	1656	1721	1940	3263	SK 473 - 63S/4	54	50 / 51
		6.7		1505	1.9	244.95	1674	1721	1949	3263			
			7.4	1363	2.1	218.59	1679	1721	1951	3263			
			8.5	1186	2.4	192.51	1685	1721	1955	3263			
			9.5	1062	2.7	172.96	1690	1721	1955	3263			
			11	920	3.1	152.33	1692	1721	1958	3263			
			12	841	3.2	134.32	1694	1721	1960	3263			
	6.7			1505	1.3	238.68	747	844	1541	2363	SK 373 - 63S/4	33	50 / 51
		8.4		1204	1.6	188.86	785	844	1584	2363			
		10		1009	1.9	161.01	806	844	1607	2363			
			13	779	2.5	127.40	826	844	1627	2363			
			17	593	3.3	98.94	837	844	1640	2363			
			19	531	3.7	85.47	839	844	1643	2363			
	4.8			* 1549	* 0.8	330.90	740	844	1535	2363	SK 273 - 63S/4	33	50 / 51
	6.5			* 1549	* 0.8	245.21	740	844	1535	2363			
	8.5			1186	1.0	188.81	788	844	1586	2363			
	9.6			1053	1.2	165.97	801	844	1602	2363			
		12		841	1.5	127.79	821	844	1622	2363			
		14		717	1.7	107.65	828	844	1631	2363			
			20	504	2.5	82.89	839	844	1645	2363			
			23	443	2.8	71.41	844	844	1647	2311			
			26	389	3.2	61.73	844	844	1649	2241			
			25	407	2.9	64.75	824	1193	1400	2363	SK 272 - 63S/4	32	50 / 51
	20			504	1.2	79.56	587	736	743	1845	SK 172 - 63S/4	22	50 / 51
			28	363	2.1	58.96	599	736	743	1845			
			34	301	2.5	48.32	603	736	743	1845			
			36	283	2.7	45.40	605	736	743	1845			
			44	230	3.4	37.21	608	736	743	1845			
			53	195	4.0	30.58	608	736	743	1845			
			56	177	4.3	29.10	610	736	743	1845			
			60	168	4.5	27.61	610	736	743	1845			
			70	142	5.5	23.91	610	736	743	1845			
			77	133	5.9	21.59	610	736	743	1845			
			92	106	6.9	17.87	612	736	743	1845			
			96	106	7.2	17.17	612	736	743	1845			
			113	89	8.4	14.84	612	736	743	1845			
			128	79	9.5	12.98	612	736	743	1845			
			137	73	10.2	12.16	612	736	743	1845			
			146	69	10.4	11.41	612	736	743	1845			
			166	61	11.2	10.07	612	736	743	1820			
			178	57	11.7	9.35	612	736	743	1787			
			202	50	12.8	8.25	594	736	743	1719			
			216	47	11.7	7.68	581	736	743	1683			
			240	42	12.8	6.94	560	736	743	1636			
			262	39	13.3	6.34	547	736	743	1595			
			289	35	14.5	5.74	529	736	743	1548			
			319	32	15.7	5.21	511	736	743	1503			
			353	28	17.0	4.71	495	736	743	1460			
* service factor < 1.0													
	I			= f _B	0.8 - 1.39		1) with F _A = 0 Lb		2) with F _Q = 0 Lb				
		II		= f _B	1.4 - 1.99								
			III	= f _B	≥ 2.0								

** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.



HELICAL GEAR MOTORS

THREE PHASE



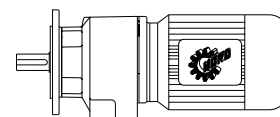
Power	Output speed **			Output torque	Service factor	Red. Ratio	Normal bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page
[HP]	n ₂ [RPM]			T ₂	f _B	i _{total}	F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q vL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust		[LBS]	
	AGMA			[LB-IN]			[LBS]	[LBS]	[LBS]	[LBS]			
	I	II	III										
0.16			408	25	19.0	4.07	473	736	743	1400	SK 172 - 63S/4	22	50 / 51
			426	24	18.7	3.90	466	725	743	1382			
			493	20	20.8	3.37	443	686	743	1325			
			548	19	20.9	3.03	428	653	743	1283			
			635	16	21.7	2.62	407	614	743	1229			
			745	13	20.9	2.23	387	574	743	1170			
			862	12	21.7	1.93	369	540	743	1121			
0.25			4.8	3283	2.3	343.08	1681	2025	2381	5625	SK 773 - 63L/4	86	52 / 53
			5.5	2867	2.2	293.34	1701	2025	2394	5625			
		4.8		3283	1.7	340.54	1339	1721	1836	4500	SK 673 - 63L/4	71	52 / 53
			6.1	2584	2.2	267.99	1386	1721	1868	4500			
			7.8	2018	2.8	211.34	1418	1721	1890	4500			
			8.9	1770	3.1	185.29	1427	1721	1897	4500			
		5.3		2974	1.3	309.58	1438	1721	2462	3263	SK 573 - 63L/4	54	52 / 53
			6.7	2354	1.7	244.95	1478	1721	2475	3263			
			7.4	2133	1.9	218.59	1490	1721	2475	3263			
			8.5	1859	2.1	192.51	1503	1721	2475	3263			
			9.5	1655	2.4	172.96	1512	1721	2475	3263	SK 473 - 63L/4	54	50 / 51
		5.3		2974	1.0	309.58	1586	1721	1901	3263			
		6.7		2354	1.2	244.95	1631	1721	1926	3263			
				2133	1.3	218.59	1645	1721	1933	3263			
				1859	1.5	192.51	1658	1721	1940	3263			
				1655	1.7	172.96	1667	1721	1944	3263			
				1434	2.0	152.33	1676	1721	1951	3263			
				1310	2.0	134.32	1681	1721	1953	3263			
				1124	2.4	118.30	1688	1721	1955	3263			
				982	2.7	106.70	1692	1721	1958	3263			
				929	2.9	95.90	1692	1721	1958	3263			
				788	3.4	82.08	1694	1721	1960	3263			
				681	3.9	72.18	1697	1721	1960	3263			
				611	4.4	64.10	1699	1721	1962	3263			
				540	4.9	57.96	1699	1721	1962	3263			
				504	5.2	53.42	1701	1721	1962	3263			
			25	628	4.2	65.56	1202	1832	2475	3263	SK 472 - 63L/4	52	50 / 51
				* 2354	* 0.8	238.68	560	844	1357	2363	SK 373 - 63L/4	33	50 / 51
				1876	1.0	188.86	682	844	1474	2363			
				1575	1.2	161.01	736	844	1530	2363			
				1212	1.6	127.40	785	844	1584	2363			
				929	2.1	98.94	812	844	1613	2306			
				832	2.3	85.47	821	844	1622	2259			
				681	2.8	73.94	830	844	1634	2169			
				628	3.1	66.38	835	844	1638	2131			
				611	3.2	63.29	835	844	1638	2111			
			32	496	3.1	51.23	819	1193	988	2363	SK 372 - 63L/4	32	50 / 51
			37	425	3.2	45.40	821	1193	988	2363			
* service factor < 1.0													
	I			= f _B	0.8 - 1.39	1) with F _A = 0 Lb		2) with F _a = 0 Lb					
		II		= f _B	1.4 - 1.99								
			III	= f _B	≥ 2.0	** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio							

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HELICAL GEAR MOTORS

THREE PHASE

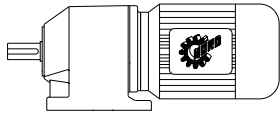


Power	Output speed **			Output torque	Service factor	Red. Ratio	Standard bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page
	n ₂ [RPM]			T ₂			F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q VL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust			
[HP]	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]			[LBS]
	I	II	III										
0.25	9.6			* 1646	* 0.8	165.97	725	844	1517	2363	SK 273 - 63L/4	33	50 / 51
	12			* 1310	* 0.9	127.79	774	844	1571	2363			
	14			1124	1.1	107.65	794	844	1593	2363			
		20		788	1.6	82.89	824	844	1627	2273			
		23		681	1.8	71.41	830	844	1634	2210			
			26	611	2.0	61.73	835	844	1638	2153			
			30	522	2.4	53.98	839	844	1645	2088			
			35	451	2.8	47.44	842	844	1647	2009			
			40	398	3.1	41.78	844	844	1649	1942			
		25		628	1.8	64.75	812	1193	1397	2363	SK 272 - 63L/4	32	50 / 51
			29	540	2.1	57.38	817	1193	1400	2363			
			32	496	2.5	51.23	819	1193	1400	2363			
			37	425	2.9	45.40	821	1193	1400	2363			
			42	372	3.3	39.78	824	1193	1400	2363			
	28			566	1.3	58.96	581	736	743	1845	SK 172 - 63L/4	22	50 / 51
		34		460	1.6	48.32	592	736	743	1845			
		36		434	1.7	45.40	594	736	743	1845			
			44	354	2.2	37.21	601	736	743	1845			
			53	301	2.6	30.58	603	736	743	1845			
			56	283	2.8	29.10	605	736	743	1845			
			60	266	2.9	27.61	605	736	743	1845			
			70	221	3.5	23.91	608	736	743	1845			
			77	204	3.8	21.59	608	736	743	1845			
			92	168	4.4	17.87	610	736	743	1845			
			96	168	4.6	17.17	610	736	743	1845			
			113	142	5.4	14.84	610	736	743	1845			
			128	124	6.1	12.98	610	736	743	1845			
			137	115	6.5	12.16	610	736	743	1845			
			146	106	6.6	11.41	612	736	743	1845			
			166	97	7.2	10.07	612	736	743	1798			
			178	89	7.5	9.35	612	736	743	1762			
			202	78	8.2	8.25	590	736	743	1701			
			216	73	7.5	7.68	576	736	743	1667			
			240	65	8.2	6.94	556	736	743	1618			
			262	60	8.5	6.34	542	736	743	1582			
			289	55	9.2	5.74	524	736	743	1532			
			319	50	10.0	5.21	509	736	743	1492			
			353	44	10.9	4.71	493	736	743	1449			
			408	39	12.1	4.07	470	722	743	1391			
			426	37	12.0	3.90	464	709	743	1373			
			493	32	13.3	3.37	441	668	743	1316			
			548	29	13.4	3.03	425	639	743	1278			
			635	25	13.9	2.62	405	603	743	1222			
			745	21	13.4	2.23	385	563	743	1166			
			862	19	13.9	1.93	367	531	743	1116			
0.33	4.8			4337	1.7	343.08	1620	2025	2340	5625	SK 773 - 71S/4	88	52 / 53
	5.5			3779	1.7	293.34	1654	2025	2363	5625			
		6.1		3407	2.2	269.99	1674	2025	2376	5625			
		7.2		2894	2.6	230.85	1699	2025	2392	5625			
		7.8		2664	2.9	212.92	1708	2025	2399	5625			
		9.1		2283	3.3	182.05	1721	2025	2408	5625			
		12		1735	4.4	140.89	1739	2025	2419	5297			
	I			= f _B	0.8 - 1.39	1) with F _A = 0 Lb				2) with F _Q = 0 Lb			
		II		= f _B	1.4 - 1.99								
			III	= f _B	≥ 2.0								

** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio

* service factor < 1.0

** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.



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THREE PHASE

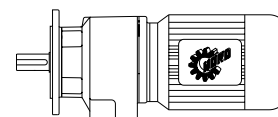


Power	Output speed **			Output torque	Service factor	Red. Ratio	Normal bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page	
[HP]	n ₂ [RPM]			T ₂			F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q v L} ¹⁾ OHL	F _{A A L} ²⁾ Thrust				
	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]			[LBS]	
	I	II	III											
0.33			17	1221	4.9	98.15	1748	2025	2426	4858	SK 773 - 71S/4	88	52 / 53	
	4.8			4337	1.3	340.54	1238	1721	1771	4500	SK 673 - 71S/4	74	52 / 53	
		6.1		3407	1.6	267.99	1328	1721	1829	4500				
			7.8	2664	2.1	211.34	1382	1721	1865	4500				
			8.9	2336	2.4	185.29	1402	1721	1879	4500				
	5.3			3929	1.0	309.58	1352	1721	2408	3263	SK 573 - 71S/4	56	52 / 53	
	6.7			3106	1.3	244.95	1429	1721	2455	3263				
		7.4		2814	1.4	218.59	1449	1721	2468	3263				
		8.5		2451	1.6	192.51	1474	1721	2475	3263				
		9.5		2186	1.8	172.96	1487	1721	2475	3263				
			11	1894	2.1	152.33	1501	1721	2475	3263				
			12	1735	2.3	134.32	1510	1721	2475	3263				
			14	1487	2.7	118.30	1519	1721	2475	3263				
			16	1301	3.1	106.70	1523	1721	2475	3263				
			17	1221	3.3	95.90	1526	1721	2475	3263				
			20	1044	3.8	82.08	1532	1721	2475	3263				
	6.7			* 3106	* 0.9	244.95	1575	1721	1897	3263	SK 473 - 71S/4	56	50 / 51	
	7.4			2814	1.0	218.59	1600	1721	1908	3263				
	8.5			2451	1.2	192.51	1625	1721	1922	3263				
	9.5			2186	1.3	172.96	1640	1721	1931	3263				
		11		1894	1.5	152.33	1656	1721	1940	3263				
		12		1735	1.5	134.32	1665	1721	1944	3263				
		14		1487	1.8	118.30	1674	1721	1949	3263				
			16	1301	2.0	106.70	1681	1721	1953	3263				
			17	1221	2.2	95.90	1683	1721	1953	3263				
			20	1044	2.6	82.08	1690	1721	1955	3263				
			23	903	2.9	72.18	1692	1721	1958	3263				
			26	797	3.3	64.10	1694	1721	1960	3263				
			29	717	3.7	57.96	1697	1721	1960	3263				
			31	673	4.0	53.42	1688	1721	1960	3263				
			25	832	3.2	65.56	1195	1832	2475	3263	SK 472 - 71S/4	55	50 / 51	
	8.4			* 2478	* 0.8	188.86	520	844	1319	2313	SK 373 - 71S/4	35	50 / 51	
	10			* 2080	* 0.9	161.01	637	844	1427	2306				
	13			1602	1.2	127.40	731	844	1526	2259				
		17		1221	1.6	98.94	783	844	1582	2192				
		19		1097	1.8	85.47	797	844	1598	2149				
			23	903	2.2	73.94	815	844	1616	2081				
			25	832	2.3	66.38	821	844	1622	2052				
			26	797	2.4	63.29	824	844	1625	2041				
			30	690	2.8	55.65	830	844	1634	1980				
			34	611	3.2	49.42	835	844	1638	1931				
			32	646	2.4	51.23	812	1193	983	2363	SK 372 - 71S/4	34	50 / 51	
	14			* 1487	* 0.8	107.65	749	844	1544	2288	SK 273 - 71S/4	35	50 / 51	
	20			1044	1.2	82.89	803	844	1602	2174				
		23		903	1.4	71.41	815	844	1616	2122				
		26		797	1.5	61.73	824	844	1625	2075				
		30		690	1.8	53.98	830	844	1634	2016				
			35	593	2.1	47.44	837	844	1640	1953				
			40	522	2.4	41.78	839	844	1645	1895				
			46	451	2.7	36.54	842	844	1631	1836				
			52	398	3.1	32.11	824	844	1584	1784				
* service factor < 1.0														
I				= f _B 0.8 - 1.39		1) with F _A = 0 Lb				2) with F _a = 0 Lb				
II				= f _B 1.4 - 1.99										
III				= f _B ≥ 2.0										
** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio														



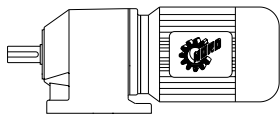
HELICAL GEAR MOTORS

THREE PHASE



Power	Output speed **			Output torque	Service factor	Red. Ratio	Standard bearing		Radial HD bearing ¹⁾ F _{Q VL} OHL	Axial HD bearing ²⁾ F _{A AL} Thrust	Type	Weight approx. Mounting position B3	Dimensions page			
	n ₂ [RPM]						T ₂	F _{Q N} ¹⁾ OHL						F _{A N} ²⁾ Thrust		
	AGMA															
[HP]	I	II	III	[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]		[LBS]				
0.33		25		832	1.4	64.75	799	1193	1393	2363	SK 272 - 71S/4	34	50 / 51			
		29		717	1.6	57.38	808	1193	1395	2363						
		32		646	1.9	51.23	812	1193	1397	2363						
			37	566	2.2	45.40	817	1193	1397	2363						
			42	496	2.5	39.78	819	1193	1400	2356						
			47	443	2.8	35.26	821	1193	1400	2293						
			53	389	3.2	31.17	824	1193	1400	2225						
	28			743	1.0	58.96	556	736	743	1845	SK 172 - 71S/4	24	50 / 51			
	34			611	1.2	48.32	574	736	743	1845						
	36			575	1.3	45.40	578	736	743	1845						
		44		469	1.6	37.21	590	736	743	1845						
		53		389	1.9	30.58	596	736	743	1845						
			56	372	2.1	29.10	599	736	743	1845						
			60	345	2.2	27.61	601	736	743	1845						
			70	301	2.7	23.91	603	736	743	1845						
			77	274	2.8	21.59	605	736	743	1845						
			92	230	3.3	17.87	608	736	743	1845						
			96	212	3.5	17.17	608	736	743	1845						
			113	186	4.1	14.84	610	736	743	1845						
			128	159	4.6	12.98	610	736	743	1845						
			137	150	5.0	12.16	610	736	743	1845						
			146	142	5.0	11.41	610	736	743	1845						
			166	124	5.4	10.07	610	736	743	1782						
			178	115	5.7	9.35	610	736	743	1748						
			202	106	6.2	8.25	585	736	743	1683						
			216	97	5.7	7.68	572	736	743	1652						
			240	87	6.2	6.94	554	736	743	1604						
			262	80	6.5	6.34	538	736	743	1568						
			289	72	7.0	5.74	520	736	743	1521						
			319	65	7.6	5.21	506	736	743	1483						
			353	59	8.3	4.71	488	736	743	1442						
			408	51	9.2	4.07	468	707	743	1382						
			426	49	9.1	3.90	461	693	743	1364						
			493	42	10.1	3.37	439	655	743	1307						
			548	38	10.1	3.03	425	626	743	1269						
			635	33	10.5	2.62	405	592	743	1215						
			745	28	10.1	2.23	383	554	743	1159						
			862	24	10.5	1.93	365	522	743	1112						
	0.50	4.8			6567	1.1	343.08	1418	2025	2214	5625	SK 773 - 71L/4	90	52 / 53		
		5.5			5735	1.1	293.34	1505	2025	2268	5625					
		6.1		5168	1.5	269.99	1557	2025	2300	5625						
		7.2		4381	1.7	230.85	1618	2025	2338	5567						
		7.8		4044	1.9	212.92	1638	2025	2354	5497						
			9.1	3460	2.2	182.05	1672	2025	2376	5348						
			12	2628	2.9	140.89	1710	2025	2401	5065						
			17	1859	3.2	98.15	1735	2025	2417	4689						
			23	1372	5.6	75.95	1746	2025	2426	4370						
4.8				* 6567	* 0.8	340.54	869	1721	1557	4500	SK 673 - 71L/4	76	52 / 53			
6.1				5168	1.1	267.99	1132	1721	1706	4500						
		7.8		4044	1.4	211.34	1269	1721	1791	4453						
		8.9		3540	1.6	185.29	1316	1721	1823	4367						
		11		2867	1.9	146.13	1368	1721	1856	4237						
			16	1974	2.8	103.46	1418	1721	1890	3942						
* service factor < 1.0																
I				= f _B	0.8 - 1.39		1) with F _A = 0 Lb		2) with F _O = 0 Lb							
	II			= f _B	1.4 - 1.99											
		III		= f _B	≥ 2.0		** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio									

** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.



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Power	Output speed **			Output torque	Service factor	Red. Ratio	Normal bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page
	n ₂ [RPM]			T ₂			F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q vL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust			
[HP]	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]			[LBS]
	I	II	III										
0.50			22	1434	3.9	75.38	1440	1721	1904	3686	SK 673 - 71L/4	76	52 / 53
			24	1310	4.2	67.98	1442	1721	1908	3609			
	6.7			* 4708	* 0.8	244.95	1260	1721	2354	3263	SK 573 - 71L/4	58	52 / 53
	7.4			* 4257	* 0.9	218.59	1316	1721	2387	3263			
	8.5			3708	1.1	192.51	1375	1721	2421	3263			
	9.5			3319	1.2	172.96	1411	1721	2444	3263			
		11		2867	1.4	152.33	1445	1721	2466	3263			
		12		2628	1.5	134.32	1463	1721	2475	3263			
		14		2248	1.8	118.30	1485	1721	2475	3263			
			16	1974	2.0	106.70	1499	1721	2475	3263			
			17	1859	2.1	95.90	1503	1721	2475	3263	SK 473 - 71L/4	58	50 / 51
			20	1575	2.5	82.08	1514	1721	2475	3263			
			23	1372	2.9	72.18	1521	1721	2475	3263			
	8.5			* 3708	* 0.8	192.51	1517	1721	1868	3263			
	9.5			* 3319	* 0.9	172.96	1557	1721	1886	3263			
	11			2867	1.0	152.33	1595	1721	1906	3263			
	12			2628	1.0	134.32	1613	1721	1915	3263			
	14			2248	1.2	118.30	1638	1721	1928	3263			
	16			1974	1.3	106.70	1654	1721	1937	3263			
		17		1859	1.4	95.90	1658	1721	1940	3263			
		20		1575	1.7	82.08	1672	1721	1946	3263			
		23		1372	1.9	72.18	1679	1721	1951	3263			
			26	1212	2.2	64.10	1685	1721	1953	3263			
			29	1089	2.4	57.96	1672	1721	1955	3263			
			31	1018	2.6	53.42	1643	1721	1958	3263			
			32	982	2.7	50.97	1627	1721	1958	3263			
			37	850	3.1	45.26	1564	1721	1960	3263			
			41	770	3.5	41.03	1519	1721	1960	3263			
			25	1257	2.1	65.56	1179	1832	2475	3263	SK 472 - 71L/4	57	50 / 51
			32	982	2.7	51.70	1190	1832	2475	3263			
			35	903	3.1	46.75	1193	1832	2475	3263			
	13			* 2425	* 0.8	127.40	538	844	1334	1926	SK 373 - 71L/4	37	50 / 51
	17			1859	1.0	98.94	684	844	1476	1931			
	19			1655	1.2	85.47	722	844	1517	1924			
		23		1372	1.4	73.94	765	844	1562	1892			
		25		1257	1.5	66.38	781	844	1577	1881			
		26		1212	1.6	63.29	785	844	1584	1870			
		30		1053	1.9	55.65	801	844	1602	1834			
			34	929	2.1	49.42	797	844	1613	1802			
			38	832	2.3	42.69	776	844	1609	1771	SK 372 - 71L/4	36	50 / 51
			44	717	2.7	37.54	749	844	1568	1726			
			50	628	3.1	33.34	727	844	1528	1683			
		32		982	1.6	51.23	788	1193	970	2327			
		37		850	1.6	45.40	799	1193	977	2257	SK 273 - 71L/4	37	50 / 51
			42	752	2.4	39.78	806	1193	979	2221			
			47	673	2.6	35.26	810	1193	981	2165			
	20			* 1575	* 0.8	82.89	736	844	1530	1964			
	23			* 1372	* 0.9	71.41	765	844	1562	1937	SK 273 - 71L/4	37	50 / 51
	26			1212	1.0	61.73	785	844	1584	1908			
* service factor < 1.0													
	I			= f _B	0.8 - 1.39	1) with F _A = 0 Lb		2) with F _a = 0 Lb					
		II		= f _B	1.4 - 1.99								
			III	= f _B	≥ 2.0								

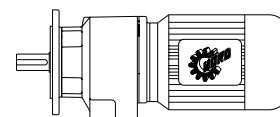
** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio

** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.

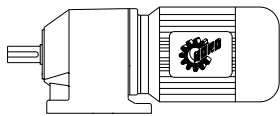


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Power	Output speed **			Output torque	Service factor	Red. Ratio	Standard bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page	
[HP]	n ₂ [RPM]			T ₂	f _B	i _{total}	F _{ON} ¹⁾ OHL	F _{AN} ²⁾ Thrust	F _{QVL} ¹⁾ OHL	F _{QAL} ²⁾ Thrust		[LBS]		
	I	II	III	[LB-IN]			[LBS]	[LBS]	[LBS]	[LBS]				
0.50	30			1053	1.2	53.98	801	844	1602	1872	SK 273 - 71L/4	37	50 / 51	
		35		903	1.4	47.44	815	844	1616	1827				
		40		788	1.6	41.78	824	844	1598	1787				
		46		681	1.8	36.54	826	844	1557	1744				
			52	611	2.0	32.11	799	844	1517	1703				
			59	531	2.3	28.34	774	844	1478	1658				
			61	513	2.4	27.10	767	844	1467	1647				
			71	443	2.8	23.70	734	844	1418	1593				
	25			* 1257	* 0.9	64.75	761	1193	1384	2363	SK 272 - 71L/4	36	50 / 51	
	29			1089	1.1	57.38	779	1193	1388	2331				
	32			982	1.3	51.23	788	1193	1391	2327				
		37		850	1.5	45.40	799	1193	1393	2257				
		42		752	1.7	39.78	806	1193	1395	2221				
		47		673	1.8	35.26	810	1193	1397	2165				
			53	593	2.1	31.17	815	1193	1397	2111				
			84	372	3.3	20.06	824	1193	1400	1933				
	34			* 929	* 0.8	48.32	522	736	743	1845	SK 172 - 71L/4	26	50 / 51	
	36			* 876	* 0.9	45.40	533	736	743	1845				
	44			717	1.1	37.21	560	736	743	1845				
	53			593	1.3	30.58	576	736	743	1845				
		56		566	1.4	29.10	581	736	743	1845				
		60		522	1.4	27.61	585	736	743	1845				
		70		451	1.8	23.91	592	736	743	1845				
		77		407	1.9	21.59	596	736	743	1845				
			92	345	2.2	17.87	601	736	743	1845				
			96	327	2.3	17.17	601	736	743	1845				
			113	283	2.7	14.84	605	736	743	1845				
			128	248	3.1	12.98	605	736	743	1845				
			137	230	3.3	12.16	608	736	743	1823				
			146	212	3.3	11.41	608	736	743	1802				
			166	186	3.6	10.07	610	736	743	1744				
			178	177	3.7	9.35	599	736	743	1708				
			202	159	4.1	8.25	576	736	743	1652				
			216	142	3.8	7.68	563	736	743	1622				
			240	133	4.1	6.94	545	736	743	1573				
			262	124	4.3	6.34	531	736	743	1541				
			289	106	4.6	5.74	515	736	743	1496				
			319	97	5.0	5.21	500	736	743	1460				
			353	89	5.5	4.71	484	709	743	1420				
			408	77	6.1	4.07	461	675	743	1366				
			426	74	6.0	3.90	457	662	743	1346				
			493	64	6.6	3.37	434	628	743	1294				
			548	58	6.7	3.03	421	601	743	1253				
			635	50	7.0	2.62	401	572	743	1204				
			745	42	6.7	2.23	380	531	743	1148				
			862	36	7.0	1.93	362	506	743	1103				
	0.75	6.1			7753	1.0	269.99	1258	2025	2122	5049	SK 773 - 80S/4	95	52 / 53
		7.2			6567	1.2	230.85	1418	2025	2214	5009			
		7.8			6062	1.3	212.92	1474	2025	2248	4977			
			9.1		5195	1.5	182.05	1555	2025	2300	4905			
		9.5		4974	1.5	173.85	1573	2025	2311	4883				
		11		4301	1.8	148.64	1622	2025	2342	4788				
		12		3938	1.9	140.89	1645	2025	2358	4734				
				* service factor < 1.0										
I			= f _B 0.8 - 1.39			1) with F _A = 0 Lb		2) with F _O = 0 Lb						
	II		= f _B 1.4 - 1.99											
		III	= f _B ≥ 2.0			** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio								



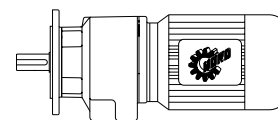
HELICAL GEAR MOTORS

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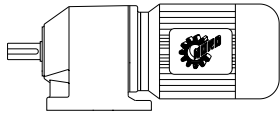


Power	Output speed **			Output torque	Service factor	Red. Ratio	Normal bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page
	n ₂ [RPM]			T ₂			F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q vL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust			
[HP]	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]			[LBS]
	I	II	III										
0.75			14	3381	2.3	115.04	1676	2025	2378	4615	SK 773 - 80S/4	95	52 / 53
			17	2779	2.1	98.15	1703	2025	2396	4455			
			20	2363	3.2	80.14	1719	2025	2408	4322			
			23	2053	3.7	75.95	1730	2025	2414	4192			
	7.8			* 6062	* 0.9	211.34	979	1721	1618	3886	SK 673 - 80S/4	80	52 / 53
	8.9			5310	1.0	185.29	1109	1721	1692	3879			
	11			4301	1.3	146.13	1242	1721	1773	3830			
		14		3381	1.7	119.31	1330	1721	1832	3733			
		16		2956	1.9	103.46	1364	1721	1852	3674			
			19	2487	2.2	84.47	1393	1721	1872	3575			
			22	2151	2.6	75.38	1411	1721	1886	3490			
			24	1974	2.8	67.98	1418	1721	1890	3429			
			29	1628	3.4	57.30	1433	1721	1899	3305			
			25	1894	2.1	64.18	1546	2138	2324	4500	SK 672 - 80S/4	80	52 / 53
			29	1628	2.3	56.90	1557	2138	2329	4500			
	9.5			* 4974	* 0.8	172.96	970	1721	2331	3263	SK 573 - 80S/4	63	52 / 53
	11			* 4301	* 0.9	152.33	1105	1721	2383	3263			
	12			3938	1.0	134.32	1163	1721	2408	3263			
	14			3381	1.2	118.30	1247	1721	2441	3263			
	16			2956	1.3	106.70	1301	1721	2462	3263			
		17		2779	1.4	95.90	1316	1721	2471	3263			
		20		2363	1.7	82.08	1348	1721	2475	3263			
		23		2053	1.9	72.18	1364	1721	2475	3263			
			26	1823	2.2	64.10	1361	1721	2475	3263			
			29	1628	2.4	57.96	1357	1721	2475	3263			
			31	1522	2.6	53.42	1352	1721	2475	3263			
			32	1478	2.7	50.97	1346	1721	2475	3263			
			32	1478	2.2	51.70	1379	1721	2475	3375	SK 572 - 80S/4	61	52 / 53
	14			* 3381	* 0.8	118.30	1550	1721	1883	3263	SK 473 - 80S/4	63	50 / 51
	16			* 2956	* 0.9	106.70	1589	1721	1904	3263			
	17			2779	1.0	95.90	1602	1721	1910	3263			
	20			2363	1.1	82.08	1616	1721	1926	3263			
	23			2053	1.3	72.18	1607	1721	1935	3263			
		26		1823	1.5	64.10	1595	1721	1942	3263			
		29		1628	1.6	57.96	1575	1721	1946	3263			
		31		1522	1.7	53.42	1562	1721	1949	3263			
		32		1478	1.8	50.97	1555	1721	1949	3263			
			37	1274	2.1	45.26	1505	1721	1953	3263			
			41	1151	2.3	41.03	1465	1721	1955	3249			
			46	1027	2.6	37.72	1424	1721	1958	3168			
			52	912	2.7	32.94	1375	1721	1958	3078			
		25		1894	1.4	65.56	1139	1832	2475	3263	SK 472 - 80S/4	61	50 / 51
		32		1478	1.8	51.70	1166	1832	2475	3263			
			35	1354	2.1	46.75	1172	1832	2475	3263			
			40	1186	2.2	42.21	1181	1832	2475	3263			
			43	1097	2.6	38.17	1186	1832	2475	3263			
			50	947	3.0	33.11	1190	1832	2475	3263			
	19			* 2487	* 0.8	85.47	518	844	1316	1589	SK 373 - 80S/4	41	50 / 51
	23			* 2053	* 0.9	73.94	644	844	1433	1620			
	* service factor < 1.0												
	I			= f _B	0.8 - 1.39	1) with F _A = 0 Lb		2) with F _Q = 0 Lb					
		II		= f _B	1.4 - 1.99								
			III	= f _B	≥ 2.0								
** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio													

** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.



Power [HP]	Output speed **			Output torque T ₂ [LB-IN]	Service factor f _B	Red. Ratio i _{total}	Standard bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3 [LBS]	Dimensions page					
	n ₂ [RPM]						F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q VL} ¹⁾ OHL	F _{A VL} ²⁾ Thrust								
	I	II	III				[LBS]	[LBS]	[LBS]	[LBS]								
0.75	25	34 38 44	50	1894	1.0	66.38	677	844	1469	1622	SK 373 - 80S/4	41	50 / 51					
	26			1823	1.1	63.29	693	844	1483	1622								
	30			1575	1.2	55.65	736	844	1501	1622								
				1389	1.4	49.42	727	844	1485	1616								
				1248	1.6	42.69	716	844	1472	1600								
				1071	1.8	37.54	698	844	1449	1582								
				947	2.1	33.34	682	844	1420	1555								
				60	788	2.5	27.78	657	844	1384				1519				
				68	699	2.8	24.26	637	844	1352				1483				
				74	637	2.9	22.37	628	844	1332				1465				
	32			42 47	53	1478	1.0	51.23	731	1193				941	2059	SK 372 - 80S/4	41	50 / 51
	37					1274	1.1	45.40	758	1193				954	2023			
						1124	1.6	39.78	774	1193				963	2023			
						1009	1.8	35.26	785	1193				968	1978			
		894	2.0			31.17	794	1193	974	1942								
		805	2.2			28.59	801	1193	977	1926								
		708	2.5			25.28	808	1193	981	1879								
	30	52 59 61 71	80			* 1575	* 0.8	53.98	666	844	1508	1667	SK 273 - 80S/4	42	50 / 51			
	35					* 1354	* 0.9	47.44	709	844	1487	1652						
	40					1186	1.0	41.78	734	844	1469	1629						
	46					1027	1.2	36.54	756	844	1442	1604						
						912	1.4	32.11	761	844	1418	1580						
						805	1.5	28.34	738	844	1388	1550						
						779	1.6	27.10	731	844	1384	1541						
				664	1.9	23.70	704	844	1346	1508								
				593	2.1	20.83	684	844	1314	1469								
	32			53 59 67	80	* 1478	* 0.8	51.23	731	1193	1377	2059				SK 272 - 80S/4	41	50 / 51
	37					1274	1.0	45.40	758	1193	1384	2023						
	42					1124	1.1	39.78	774	1193	1386	2023						
	47					1009	1.2	35.26	785	1193	1391	1978						
						894	1.4	31.17	794	1193	1393	1942						
		805	1.5			28.59	801	1193	1395	1926								
		708	1.8			25.28	808	1193	1395	1879								
		593	2.1			20.96	815	1193	1397	1823								
		84	566			2.2	20.06	817	1193	1397	1827							
		91	522			2.4	18.59	819	1193	1400	1769							
		98	487			2.6	17.17	819	1193	1400	1775							
		112	425			2.9	15.10	817	1193	1400	1726							
		127	372			3.3	13.41	792	1193	1400	1683							
	53	92 96 113	128			* 894	* 0.9	30.58	335	659	743	1845	SK 172 - 80S/4	31	50 / 51			
	56			* 841	* 0.9	29.10	437	736	743	1845								
	60			788	1.0	27.61	396	686	743	1845								
	70			673	1.2	23.91	497	736	743	1845								
	77			611	1.3	21.59	520	736	743	1845								
				513	1.5	17.87	547	736	743	1845								
				496	1.5	17.17	587	736	743	1845								
				416	1.8	14.84	594	736	743	1832								
				372	2.0	12.98	599	736	743	1787								
				345	2.2	12.16	601	736	743	1753								
				327	2.2	11.41	601	736	743	1733								
	283			2.4	10.07	596	736	743	1685									
	266			2.5	9.35	583	736	743	1654									
	202			230	2.7	8.25	563	736	743	1607								
			* service factor < 1.0															
	I			= f _B	0.8 - 1.39	1) with F _A = 0 Lb				2) with F _Q = 0 Lb								
		II		= f _B	1.4 - 1.99													
			III	= f _B	≥2.0	** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.												



HELICAL GEAR MOTORS

THREE PHASE

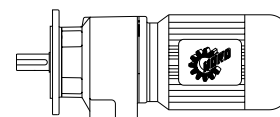


Power	Output speed **			Output torque	Service factor	Red. Ratio	Normal bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page				
	n ₂ [RPM]			T ₂			F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q vL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust							
[HP]	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]			[LBS]				
	I	II	III														
0.75			216	221	2.5	7.68	549	736	743	1571	SK 172 - 80S/4	31	50 / 51				
			240	195	2.7	6.94	533	722	743	1532							
			262	177	2.8	6.34	522	725	743	1510							
			289	159	3.1	5.74	504	686	743	1460							
			319	150	3.3	5.21	491	673	743	1429							
			353	133	3.6	4.71	475	655	743	1391							
			408	115	4.0	4.07	455	628	743	1341							
			426	115	4.0	3.90	448	610	743	1319							
			493	97	4.4	3.37	428	590	743	1271							
			548	87	4.5	3.03	414	560	743	1233							
			635	74	4.6	2.62	396	538	743	1184							
			745	64	4.5	2.23	376	502	743	1130							
			862	55	4.6	1.93	358	479	743	1087							
1.00	7.8			* 8080	* 0.9	212.92	1206	2025	2093	4462	SK 773 - 80L/4 SK 773 - 80LH/4	99	52 / 53				
	9.1			6930	1.1	182.05	1375	2025	2189	4462							
	9.5			6638	1.2	173.85	1411	2025	2210	4455							
	11			5735	1.3	148.64	1505	2025	2268	4419							
		12		5257	1.5	140.89	1550	2025	2295	4392	SK 772 - 80L/4 SK 772 - 80LH/4	96	52 / 53				
		14		4505	1.7	115.04	1609	2025	2333	4322							
		17		3708	1.6	98.15	1658	2025	2367	4219							
			20	3151	2.4	80.14	1688	2025	2385	4118							
			23	2744	2.8	75.95	1706	2025	2396	4021							
			25	2522	3.0	68.49	1703	2025	2403	3956							
			26	2425	3.2	64.94	1688	2025	2405	3931							
		26		2425	1.7	62.32	1870	2813	2797	5002							
		28		2248	1.7	59.53	1877	2813	2801	4946							
	11			5735	1.0	146.13	1040	1721	1652	3429	SK 673 - 80L/4 SK 673 - 80LH/4	85	52 / 53				
	14			4505	1.2	119.31	1220	1721	1760	3422							
		16		3938	1.4	103.46	1280	1721	1798	3395							
		19		3319	1.7	84.47	1337	1721	1834	3341							
		22		2867	1.9	75.38	1368	1721	1856	3283							
			24	2628	2.1	67.98	1384	1721	1868	3251							
			29	2177	2.6	57.30	1409	1721	1883	3155							
			32	1974	2.8	52.12	1418	1721	1890	3098							
			36	1752	3.2	47.00	1429	1721	1897	3031	SK 672 - 80L/4 SK 672 - 80LH/4	85	52 / 53				
		25		2522	1.6	64.18	1510	2138	2306	4500							
		29		2177	1.7	56.90	1530	2138	2318	4435							
			32	1974	2.1	52.03	1541	2138	2322	4385							
			36	1752	2.6	46.13	1553	2138	2327	4273							
	12			* 5257	* 0.8	134.32	623	1721	2309	3263	SK 573 - 80L/4 SK 573 - 80LH/4	67	52 / 53				
	14			* 4505	* 0.9	118.30	799	1721	2369	3263							
	16			3938	1.0	106.70	914	1721	2408	3263							
				3708	1.1	95.90	956	1721	2421	3263							
				3151	1.3	82.08	1051	1721	2453	3263							
		23		2744	1.5	72.18	1105	1721	2471	3263							
		26		2425	1.6	64.10	1136	1721	2475	3263							
		29		2177	1.8	57.96	1157	1721	2475	3263							
			31	2036	2.0	53.42	1172	1721	2475	3263							
			32	1974	2.0	50.97	1175	1721	2475	3263							
			37	1708	2.3	45.26	1175	1721	2475	3220							
			41	1540	2.6	41.03	1177	1721	2475	3152							
			46	1372	2.9	37.72	1172	1721	2475	3087							
	* service factor < 1.0																
	Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type																
	I			= f _B 0.8 - 1.39			1) with F _A = 0 Lb		2) with F _Q = 0 Lb								
		II		= f _B 1.4 - 1.99			** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio										
			III	= f _B ≥ 2.0													

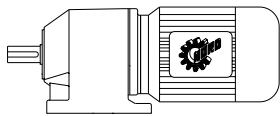


HELICAL GEAR MOTORS

THREE PHASE



Power	Output speed **			Output torque	Service factor	Red. Ratio	Standard bearing		Radial HD bearing ¹⁾	Axial HD bearing ²⁾	Type	Weight approx. Mounting position B3	Dimensions page
[HP]	n ₂ [RPM]			T ₂	f _B	i _{total}	F _{ON} ¹⁾ OHL	F _{AN} ²⁾ Thrust	F _{QVL} ¹⁾ OHL	F _{AL} ²⁾ Thrust		[LBS]	
	AGMA			[LB-IN]			[LBS]	[LBS]	[LBS]	[LBS]			
	I	II	III										
1.00		32		1974	1.7	51.70	1316	1721	2475	3375	SK 572 - 80L/4 SK 572 - 80LH/4	66	52 / 53
		35		1805	1.8	46.75	1283	1721	2475	3375			
			40	1575	2.1	42.21	1253	1721	2475	3375			
			43	1469	2.2	38.17	1226	1721	2475	3375			
	20			* 3151	* 0.8	82.08	1350	1721	1895	3263	SK 473 - 80L/4 SK 473 - 80LH/4	67	50 / 51
	23			2744	1.0	72.18	1377	1721	1910	3263			
	26			2425	1.1	64.10	1397	1721	1924	3263			
	29			2177	1.2	57.96	1395	1721	1931	3263			
	31			2036	1.3	53.42	1395	1721	1935	3256			
	32			1974	1.3	50.97	1395	1721	1937	3240			
		37		1708	1.6	45.26	1388	1721	1944	3168			
		41		1540	1.7	41.03	1375	1721	1949	3112			
		46		1372	1.9	37.72	1359	1721	1951	3042			
			52	1212	2.0	32.94	1334	1721	1953	2975			
			59	1071	2.2	29.01	1292	1721	1955	2896			
			66	956	2.3	25.60	1253	1721	1958	2826			
			73	867	2.5	23.10	1220	1721	1960	2763			
	32			1974	1.3	51.70	1132	1832	2475	3263	SK 472 - 80L/4 SK 472 - 80LH/4	66	50 / 51
		35		1805	1.6	46.75	1145	1832	2475	3263			
		40		1575	1.7	42.21	1161	1832	2475	3263			
		43		1469	1.9	38.17	1166	1832	2475	3263			
			50	1257	2.2	33.11	1179	1832	2475	3263			
			58	1089	2.4	28.83	1186	1832	2475	3263			
	25			* 2522	* 0.8	66.38	504	844	1292	1373	SK 373 - 80L/4 SK 373 - 80LH/4	46	50 / 51
	26			* 2425	* 0.8	63.29	538	844	1298	1386			
	30			* 2097	* 0.9	55.65	632	844	1325	1415			
	34			1859	1.0	49.42	653	844	1328	1429			
	38			1655	1.2	42.69	653	844	1332	1436			
		44		1434	1.4	37.54	644	844	1325	1433			
		50		1257	1.5	33.34	635	844	1319	1429			
		60		1053	1.9	27.78	617	844	1294	1409			
			68	929	2.1	24.26	603	844	1276	1391			
			74	850	2.2	22.37	594	844	1260	1379			
			104	611	2.9	16.28	554	844	1190	1310			
	42			1505	1.2	39.78	632	1193	938	1823	SK 372 - 80L/4 SK 372 - 80LH/4	45	50 / 51
	47			1345	1.3	35.26	664	1193	950	1793			
		53		1186	1.5	31.17	716	1193	959	1775			
		59		1071	1.7	28.59	779	1193	965	1778			
		67		938	1.9	25.28	792	1193	972	1748			
			80	788	2.2	20.96	803	1193	979	1708			
			84	752	2.4	20.06	806	1193	979	1733			
			91	690	2.6	18.59	810	1193	981	1665			
			98	646	2.8	17.17	812	1193	983	1688			
	40			* 1575	* 0.8	41.78	527	844	1341	1476	SK 273 - 80L/4 SK 273 - 80LH/4	46	50 / 51
	46			* 1372	* 0.9	36.54	572	844	1330	1469			
	52			1212	1.0	32.11	610	844	1319	1463			
	59			1071	1.2	28.34	630	844	1301	1445			
	61			1035	1.2	27.10	637	844	1296	1440			
				885	1.4	23.70	655	844	1271	1418			
		71		788	1.6	20.83	659	844	1251	1393			
		80											
* service factor < 1.0													
Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type													
	I			= f _B 0.8 - 1.39			1) with F _A = 0 Lb		2) with F _O = 0 Lb				
		II		= f _B 1.4 - 1.99			** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.						
			III	= f _B ≥ 2.0									



HELICAL GEAR MOTORS

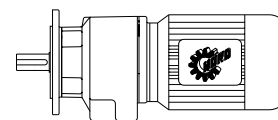
THREE PHASE



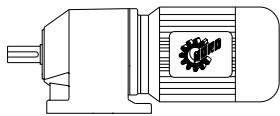
Power	Output speed **			Output torque	Service factor	Red. Ratio	Normal bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page		
	n ₂ [RPM]			T ₂			F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q vL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust					
[HP]	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]			[LBS]		
	I	II	III												
1.00	42			* 1505	* 0.8	39.78	565	1145	1375	1823	SK 272 - 80L/4 SK 272 - 80LH/4	45	50 / 51		
	47			* 1345	* 0.9	35.26	605	1157	1382	1793					
	53			1186	1.0	31.17	666	1179	1386	1775					
	59			1071	1.2	28.59	749	1193	1388	1778					
	67			938	1.3	25.28	785	1193	1391	1748					
		80		788	1.6	20.96	803	1193	1395	1708					
		84		752	1.7	20.06	806	1193	1395	1733					
		91		690	1.8	18.59	810	1193	1397	1665					
		98		646	1.9	17.17	812	1193	1397	1688					
			112	566	2.2	15.10	792	1193	1397	1652					
			127	496	2.5	13.41	767	1193	1400	1618					
			143	443	2.8	11.88	743	1193	1400	1571					
			152	416	3.0	11.17	731	1193	1400	1562					
			172	363	3.4	9.90	707	1168	1400	1519					
			196	319	3.6	8.65	682	1134	1402	1476					
			222	283	3.6	7.64	657	1087	1402	1431					
		70		* 903	* 0.9	23.91	180	470	743	1818	SK 172 - 80L/4 SK 172 - 80LH/4	35	50 / 51		
		77		* 823	* 0.9	21.59	223	491	743	1791					
		92		681	1.1	17.87	304	531	743	1748					
		96		655	1.1	17.17	450	653	743	1793					
	113			558	1.3	14.84	504	680	743	1748					
		128		496	1.5	12.98	531	686	743	1708					
		137		460	1.6	12.16	531	680	743	1681					
		146		434	1.7	11.41	556	693	743	1667					
		166		381	1.8	10.07	574	693	743	1629					
		178		354	1.9	9.35	567	680	743	1600					
			202	310	2.0	8.25	549	675	743	1557					
		216		292	1.9	7.68	536	650	743	1523					
			240	266	2.1	6.94	520	635	743	1487					
			262	239	2.1	6.34	511	653	743	1474					
			289	221	2.3	5.74	491	608	743	1418					
			319	195	2.5	5.21	482	619	743	1400					
			353	177	2.7	4.71	468	601	743	1361					
			408	150	3.0	4.07	450	590	743	1316					
			426	150	3.0	3.90	441	565	743	1294					
			493	124	3.3	3.37	423	554	743	1253					
			548	115	3.3	3.03	407	527	743	1213					
			635	97	3.5	2.62	392	506	743	1168					
			745	85	3.3	2.23	371	470	743	1112					
			862	73	3.5	1.93	353	452	743	1071					
1.50	4.4			21497	1.3	370.96	3296	5850	6703	9000	SK 973 - 90S/4 SK 973 - 90SH/4	276	54 / 55		
		5.2		18187	1.6	323.96	3524	5850	6955	9000					
		6.4		14780	1.9	267.31	3708	5850	7162	9000					
			7.3	12956	2.2	233.44	3789	5850	7254	9000					
			8.2	11532	2.2	203.02	3843	5850	7315	9000					
			10	9461	3.0	169.33	3908	5850	7394	9000					
			12	7885	3.6	146.30	3951	5850	7441	9000					
			14	6753	4.2	124.17	3976	5850	7470	9000					
			17	5567	4.2	105.37	3996	5850	7495	9000					
			18	5257	4.1	95.04	4001	5850	7502	9000					
			20	4726	4.0	83.00	4010	5850	7511	9000					
			26	3637	5.6	67.05	4579	5015	6239	9000	SK 972 - 90S/4 SK 972 - 90SH/4	277	54 / 55		
			31	3053	6.1	56.59	4583	4811	6244	9000					
	* service factor < 1.0														
	Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type														
		I			= f _B	0.8 - 1.39	1) with F _A = 0 Lb		2) with F _Q = 0 Lb						
			II		= f _B	1.4 - 1.99									
				III	= f _B	≥ 2.0									

** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio

** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.



Power [HP]	Output speed **			Output torque T ₂ [LB-IN]	Service factor f _B	Red. Ratio i _{total}	Standard bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3 [LBS]	Dimensions page			
	n ₂ [RPM]						F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q VL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust						
	AGMA						[LBS]	[LBS]	[LBS]	[LBS]						
	I	II	III													
1.50	7.6	9.8 12 13	14 17 19 23 24 28 31 35	12443	1.2	208.67	1982	4275	4457	7875	SK 873 - 90S/4 SK 873 - 90SH/4	178	54 / 55			
				9647	1.5	168.45	2194	4275	4700	7875						
				7885	1.9	145.57	2291	4275	4815	7875						
				7275	1.7	125.39	2320	4275	4851	7875						
				6753	2.2	117.51	2342	4275	4878	7875						
				5567	2.7	97.74	2387	4275	4930	7875						
				4974	3.0	88.16	2405	4275	4955	7875						
				4115	3.6	76.27	2428	4275	4982	7875						
				3938	3.7	70.89	2432	4275	4986	7875						
				3381	4.0	63.95	2446	4275	5002	7875						
	3053	4.0	55.32	2450	4275	5009	7875									
	2699	4.2	49.43	2457	4275	5015	7875									
	9.5 11 14	20 23	25 26 30 35 41	2956	4.2	52.79	3386	2849	5067	6750	SK 872 - 90S/4 SK 872 - 90SH/4	175	54 / 55			
				2487	4.4	45.81	3393	2743	5072	6723						
				2248	4.3	40.78	3395	2682	5072	6552						
				* 9956	* 0.8	173.85	774	2025	1892	3605				SK 773 - 90S/4 SK 773 - 90SH/4	104	52 / 53
				* 8593	* 0.9	148.64	1112	2025	2043	3688						
				6753	1.1	115.04	1395	2025	2201	3746						
				4726	1.6	80.14	1593	2025	2322	3710						
				4115	1.9	75.95	1609	2025	2349	3670						
				3779	2.0	68.49	1589	2025	2363	3634						
				3637	2.1	64.94	1575	2025	2369	3616						
	3151	2.4	57.73	1530	2025	2385	3560									
	2699	2.8	49.36	1483	2025	2399	3470									
	2310	3.3	42.60	1429	2025	2408	3375									
	14 19 22	32 34 38	43	2956	1.7	51.09	1847	2813	2786	4478	SK 772 - 90S/4 SK 772 - 90SH/4	100	52 / 53			
				2779	1.7	48.81	1856	2813	2790	4442						
				2487	1.7	43.45	1868	2813	2797	4336						
				2204	2.0	38.29	1879	2813	2801	4205						
				* 6753	* 0.8	119.31	821	1721	1535	2792				SK 673 - 90S/4 SK 673 - 90SH/4	89	52 / 53
				4974	1.1	84.47	1159	1721	1721	2878						
				4301	1.3	75.38	1242	1721	1773	2882						
				3938	1.4	67.98	1280	1721	1798	2878						
				3257	1.7	57.30	1341	1721	1838	2851						
				2956	1.9	52.12	1364	1721	1852	2824						
	2628	2.1	47.00	1370	1721	1868	2792									
	2204	2.5	39.62	1316	1721	1883	2723									
	2956	1.4	52.03	1481	2014	2293	4007	SK 672 - 90S/4 SK 672 - 90SH/4	89	52 / 53						
	2628	1.8	46.13	1503	2009	2304	3926									
	2248	1.8	40.13	1528	2021	2315	3845									
	2053	2.5	37.02	1537	2063	2320	3825									
	1823	2.6	32.82	1548	2023	2327	3724									
	* 4726	* 0.8	82.08	394	1721	2351	2995				SK 573 - 90S/4 SK 573 - 90SH/4	71	52 / 53			
	4115	1.0	72.18	551	1721	2396	3008									
	3637	1.1	64.10	659	1721	2426	3004									
	3257	1.2	57.96	738	1721	2448	2995									
	3053	1.3	53.42	779	1721	2457	2979									
	2956	1.3	50.97	792	1721	2462	2975									
	2558	1.6	45.26	857	1721	2475	2939									
	* service factor < 1.0													Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type		
I				= f _B 0.8 - 1.39	1) with F _A = 0 Lb				2) with F _Q = 0 Lb							
II				= f _B 1.4 - 1.99												
	III			= f _B ≥2.0	** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio											

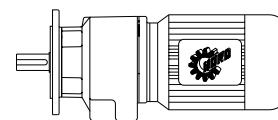


HELICAL GEAR MOTORS

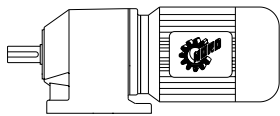
THREE PHASE



Power	Output speed **			Output torque	Service factor	Red. Ratio	Normal bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page
	n ₂ [RPM]			T ₂			F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q vL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust			
[HP]	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]			[LBS]
	I	II	III										
1.50		41		2310	1.7	41.03	891	1721	2475	2905	SK 573 - 90S/4 SK 573 - 90SH/4	71	52 / 53
		46		2053	1.9	37.72	923	1721	2475	2858			
			52	1823	2.2	32.94	943	1721	2432	2808			
			59	1602	2.5	29.01	959	1721	2390	2750			
			66	1434	2.8	25.60	963	1721	2336	2698			
		40		2363	1.4	42.21	1152	1721	2475	3375	SK 572 - 90S/4 SK 572 - 90SH/4	70	52 / 53
		43		2204	1.5	38.17	1130	1721	2475	3375			
		50		1894	1.9	33.11	1100	1721	2475	3375			
			58	1628	2.0	28.83	1062	1721	2475	3375			
			64	1478	2.7	26.70	1049	1721	2475	3375			
	29			* 3257	* 0.8	57.96	1019	1721	1890	2909	SK 473 - 90S/4 SK 473 - 90SH/4	71	50 / 51
	31			* 3053	* 0.9	53.42	1042	1721	1899	2905			
	32			* 2956	* 0.9	50.97	1058	1721	1904	2905			
	37			2558	1.0	45.26	1100	1721	1919	2867			
	41			2310	1.2	41.03	1116	1721	1926	2840			
	46			2053	1.3	37.72	1132	1721	1935	2804	SK 472 - 90S/4 SK 472 - 90SH/4	70	50 / 51
		52		1823	1.4	32.94	1141	1721	1942	2763			
		59		1602	1.5	29.01	1141	1721	1946	2711			
		66		1434	1.5	25.60	1134	1721	1951	2660			
		73		1292	1.6	23.10	1125	1721	1953	2617			
		83		1142	1.8	20.90	1114	1721	1955	2552			
	40			2363	1.1	42.21	1096	1832	2475	3263			
	43			2204	1.3	38.17	1112	1832	2475	3263			
		50		1894	1.5	33.11	1139	1832	2475	3263			
		58		1628	1.6	28.83	1157	1832	2475	3263			
		64		1478	1.9	26.70	1166	1832	2475	3263			
			73	1292	2.2	23.16	1177	1832	2475	3263			
			86	1097	2.6	20.17	1186	1832	2475	3263			
			92	1027	2.6	18.44	1177	1832	2475	3263			
			102	929	2.8	16.63	1145	1832	2475	3263			
	38			* 2487	* 0.8	42.69	502	844	1046	1103	SK 373 - 90S/4 SK 373 - 90SH/4	50	50 / 51
	44			* 2151	* 0.9	37.54	527	844	1085	1148			
	50			1894	1.0	33.34	531	844	1100	1175			
	60			1575	1.2	27.78	533	844	1116	1202			
		68		1389	1.4	24.26	531	844	1118	1206			
		74		1274	1.5	22.37	529	844	1118	1208	SK 372 - 90S/4 SK 372 - 90SH/4	49	50 / 51
		104		912	1.9	16.28	509	844	1091	1190			
	59			1602	1.1	28.59	236	718	929	1487			
	67			1407	1.3	25.28	324	770	945	1487			
		80		1186	1.5	20.96	434	826	959	1478			
		84		1124	1.6	20.06	572	945	963	1532			
		91		1035	1.7	18.59	482	835	968	1456			
		98		965	1.8	17.17	644	983	970	1519			
			112	841	2.0	15.10	695	1004	977	1503			
			127	743	2.3	13.41	729	1013	979	1487			
			143	664	2.5	11.88	711	992	983	1449			
			152	620	2.4	11.17	707	1013	983	1451			
			172	549	2.7	9.90	682	988	986	1415			
			196	487	3.1	8.65	659	974	988	1386			
* service factor < 1.0													
Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type													
	I			= f _B 0.8 - 1.39			1) with F _A = 0 Lb		2) with F _Q = 0 Lb				
	II			= f _B 1.4 - 1.99			** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio						
		III		= f _B ≥ 2.0									



Power	Output speed **			Output torque	Service factor	Red. Ratio	Standard bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page			
	n ₂ [RPM]						F _{ON} ¹⁾ OHL	F _{AN} ²⁾ Thrust	F _{Q VL} ¹⁾ OHL	F _{AL} ²⁾ Thrust						
	[HP]	AGMA												[LB-IN]	f _B	i _{total}
	I	II	III													
1.50			222	425	3.3	7.64	637	954	988	1350	SK 372 - 90S/4 SK 372 - 90SH/4	49	50 / 51			
			251	381	3.4	6.75	619	927	990	1319						
	59			* 1602	* 0.8	28.59	164	668	1373	1487				SK 272 - 90S/4 SK 272 - 90SH/4	49	50 / 51
	67			* 1407	* 0.9	25.28	263	718	1379	1487						
	80			1186	1.0	20.96	380	785	1386	1478						
	84			1124	1.1	20.06	520	905	1386	1532						
	91			1035	1.2	18.59	430	801	1388	1456						
	98			965	1.3	17.17	601	954	1391	1519						
		112		841	1.5	15.10	659	977	1393	1503						
		127		743	1.7	13.41	700	992	1395	1487						
		143		664	1.9	11.88	695	965	1397	1449						
			152	620	2.0	11.17	691	992	1397	1451						
			172	549	2.3	9.90	668	974	1397	1415						
			196	487	2.6	8.65	650	954	1400	1386						
			222	425	2.9	7.64	628	936	1400	1350						
			251	381	3.3	6.75	610	916	1400	1319						
			266	354	3.4	6.34	601	905	1400	1305						
			301	319	3.4	5.62	576	862	1402	1260						
			341	274	3.5	4.96	560	853	1402	1233						
			371	257	3.7	4.57	549	844	1402	1215						
		146		646	1.1	11.41	297	457	743	1541	SK 172 - 90S/4 SK 172 - 90SH/4	40	50 / 51			
		166		566	1.2	10.07	349	486	743	1519						
		178		531	1.2	9.35	347	479	743	1487						
			202	469	1.4	8.25	385	495	743	1458						
		216		434	1.3	7.68	380	486	743	1433						
			240	398	1.4	6.94	383	475	743	1400						
			262	363	1.4	6.34	437	515	743	1393						
			289	327	1.5	5.74	405	475	743	1343						
			319	292	1.7	5.21	450	506	743	1337						
			353	266	1.8	4.71	448	495	743	1305						
			408	230	2.0	4.07	434	491	743	1265						
			426	221	2.0	3.90	425	479	743	1244						
			493	195	2.2	3.37	410	468	743	1204						
			548	177	2.4	3.03	394	443	743	1166						
			635	150	2.8	2.62	380	439	743	1130						
			745	124	3.2	2.23	360	416	743	1080						
			862	106	3.3	1.93	347	407	743	1044						
	2.00	4.4		28656	1.0	370.96	2570	5850	5965	9000	SK 973 - 90L/4 SK 973 - 90LH/4	284	54 / 55			
		5.2		24249	1.2	323.96	3060	5850	6455	9000						
			6.4	19700	1.4	267.31	3427	5850	6847	9000						
			7.3	17275	1.6	233.44	3578	5850	7016	9000						
			8.2	15381	1.7	203.02	3679	5850	7128	9000						
			10	12611	2.2	169.33	3803	5850	7270	9000						
			12	10505	2.7	146.30	3877	5850	7355	9000						
			14	9009	3.1	124.17	3922	5850	7407	9000						
		17	7416	3.2	105.37	3960	5850	7454	9000							
		18	7009	3.1	95.04	3969	5850	7463	9000							
		20	6301	3.0	83.00	3983	5850	7479	9000							
			26	4850	4.2	67.05	4568	4835	6235	9000	SK 972 - 90L/4 SK 972 - 90LH/4	286	54 / 55			
			31	4071	4.6	56.59	4574	4653	6239	9000						
		7.6		* 16594	* 0.9	208.67	1485	4275	3944	7875	SK 873 - 90L/4 SK 873 - 90LH/4	186	54 / 55			
* service factor < 1.0																
Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type																
		I		= f _B	0.8 - 1.39			1) with F _A = 0 Lb			2) with F _Q = 0 Lb					
			II	= f _B	1.4 - 1.99											
			III	= f _B	≥ 2.0											
** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.																



HELICAL GEAR MOTORS

THREE PHASE

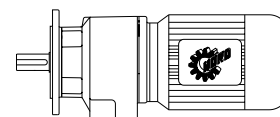


Power	Output speed **			Output torque	Service factor	Red. Ratio	Normal bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page	
	n ₂ [RPM]			T ₂			F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q vL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust				
[HP]	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]			[LBS]	
	I	II	III											
2.00	9.8			12868	1.2	168.45	1942	4275	4415	7875	SK 873 - 90L/4 SK 873 - 90LH/4	186	54 / 55	
		12		10505	1.4	145.57	2135	4275	4633	7875				
	13			9700	1.3	125.39	2189	4275	4696	7875				
		14		9009	1.7	117.51	2232	4275	4745	7875				
			17	7416	2.0	97.74	2313	4275	4842	7875				
			19	6638	2.2	88.16	2347	4275	4883	7875				
			23	5487	2.7	76.27	2390	4275	4934	7875				
			24	5257	2.8	70.89	2396	4275	4943	7875				
			28	4505	3.0	63.95	2419	4275	4970	7875				
			31	4071	3.0	55.32	2430	4275	4984	7875				
			35	3602	3.1	49.43	2441	4275	4995	7875				
			43	2929	3.1	39.91	2453	4275	5011	7875				
				32	3938	3.2	52.79	3371	2669	5060	6746	SK 872 - 90L/4 SK 872 - 90LH/4	183	54 / 55
				38	3319	3.3	45.81	3382	2588	5065	6491			
				42	3000	3.2	40.78	3386	2534	5067	6347			
		14			* 9009	* 0.8	115.04	1026	2025	2000	3170	SK 773 - 90L/4 SK 773 - 90LH/4	112	52 / 53
	20			6301	1.2	80.14	1449	2025	2232	3317				
		23		5487	1.4	75.95	1472	2025	2284	3317				
		25		5045	1.5	68.49	1463	2025	2306	3317				
		26		4850	1.6	64.94	1460	2025	2318	3317				
		30		4204	1.8	57.73	1431	2025	2347	3285				
			35	3602	2.1	49.36	1395	2025	2369	3238				
			41	3080	2.5	42.60	1357	2025	2387	3186				
			47	2682	2.7	36.79	1321	2025	2399	3121				
				32	3938	1.3	51.09	1793	2727	2759	4165			
	34			3708	1.3	48.81	1807	2759	2765	4158				
	38			3319	1.3	43.45	1829	2727	2777	4066				
		43		2929	1.5	38.29	1850	2653	2788	3958				
			49	2575	2.8	35.64	1865	2759	2795	3958				
			50	2522	2.7	34.05	1868	2759	2797	3944				
		19		* 6638	* 0.8	84.47	673	1721	1550	2421	2484	SK 673 - 90L/4 SK 673 - 90LH/4	98	52 / 53
	22			5735	1.0	75.38	902	1721	1652	2484				
	24			5257	1.1	67.98	1010	1721	1697	2511				
	29			4345	1.3	57.30	1190	1721	1771	2549				
		32		3938	1.4	52.12	1269	1721	1798	2549				
		36		3505	1.6	47.00	1280	1721	1825	2549				
		43		2929	1.9	39.62	1244	1721	1854	2525				
			59	2142	2.6	29.53	1170	1721	1886	2437				
			62	2036	2.7	28.05	1157	1721	1888	2421				
		32		3938	1.0	52.03	1391	1537	2250	3634	3578	SK 672 - 90L/4 SK 672 - 90LH/4	98	52 / 53
	36			3505	1.3	46.13	1436	1559	2270	3578				
		42		3000	1.4	40.13	1478	1643	2291	3548				
		46		2744	1.8	37.02	1496	1726	2300	3560				
			52	2425	2.0	32.82	1503	1726	2311	3485				
			59	2142	2.3	28.55	1460	1735	2318	3431				
		26		* 4850	* 0.8	64.10	126	1721	2320	2612	2642	SK 573 - 90L/4 SK 573 - 90LH/4	80	52 / 53
	29			* 4345	* 0.9	57.96	275	1721	2336	2642				
	31			4071	1.0	53.42	349	1721	2336	2651				
	32			3938	1.0	50.97	383	1721	2340	2655				
37			3407	1.2	45.26	513	1721	2336	2660					

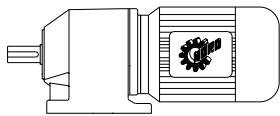


HELICAL GEAR MOTORS

THREE PHASE



Power	Output speed **			Output torque	Service factor	Red. Ratio	Standard bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page			
	n ₂ [RPM]			T ₂			F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q VL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust						
[HP]	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]			[LBS]			
	I	II	III													
2.00	41			3080	1.3	41.03	585	1721	2322	2651	SK 573 - 90L/4 SK 573 - 90LH/4	80	52 / 53			
		46		2744	1.5	37.72	653	1721	2304	2637						
		52		2425	1.6	32.94	709	1721	2279	2612						
		59		2142	1.9	29.01	754	1721	2243	2576						
			66	1912	2.1	25.60	783	1721	2214	2547	SK 572 - 90L/4 SK 572 - 90LH/4	79	52 / 53			
			73	1726	2.3	23.10	806	1721	2178	2511						
			83	1522	2.6	20.90	819	1721	2138	2459						
			92	1372	2.9	18.86	828	1721	2095	2419						
	40			3151	1.0	42.21	783	1539	2475	3375				SK 473 - 90L/4 SK 473 - 90LH/4	80	50 / 51
	43			2929	1.1	38.17	806	1539	2475	3375						
		50		2522	1.4	33.11	954	1618	2475	3375						
		58		2177	1.5	28.83	986	1640	2475	3375						
			64	1974	2.0	26.70	981	1721	2475	3375						
			73	1726	2.3	23.16	961	1721	2475	3375						
			86	1469	2.7	20.17	927	1721	2475	3375						
			92	1372	2.5	18.44	927	1721	2475	3375						
	37			* 3407	* 0.8	45.26	792	1721	1881	2572	SK 472 - 90L/4 SK 472 - 90LH/4	79	50 / 51			
	41			* 3080	* 0.9	41.03	842	1721	1897	2572						
	46			2744	1.0	37.72	891	1721	1910	2572						
	52			2425	1.0	32.94	932	1721	1924	2547						
	59			2142	1.1	29.01	961	1721	1933	2522						
	66			1912	1.2	25.60	977	1721	1940	2495						
	73			1726	1.2	23.10	983	1721	1944	2471						
	83			1522	1.3	20.90	988	1721	1924	2419						
	40			* 3151	* 0.8	42.21	754	1467	2475	3263	SK 373 - 90L/4 SK 373 - 90LH/4	59	50 / 51			
	43			2929	1.0	38.17	783	1451	2475	3263						
	50			2522	1.1	33.11	977	1544	2475	3263						
	58			2177	1.2	28.83	1080	1573	2475	3263						
		64		1974	1.4	26.70	1132	1679	2475	3263						
		73		1726	1.6	23.16	1150	1708	2475	3263						
		86		1469	1.9	20.17	1121	1692	2475	3263						
		92		1372	1.9	18.44	1123	1764	2475	3263						
			102	1239	2.1	16.63	1098	1760	2475	3263						
			113	1115	2.3	15.04	1071	1710	2475	3263						
			124	1018	2.4	14.02	1053	1724	2475	3263						
			137	920	2.6	12.68	1024	1672	2475	3263						
			166	761	2.9	10.45	979	1640	2475	3263						
	50			* 2522	* 0.8	33.34	320	702	882	925				SK 372 - 90L/4 SK 372 - 90LH/4	58	50 / 51
	60			* 2097	* 0.9	27.78	446	770	938	992						
	68			1859	1.0	24.26	452	792	959	1017						
	74			1708	1.1	22.37	459	803	974	1035						
		104		1212	1.5	16.28	461	826	988	1067						
	59			* 2142	* 0.8	28.59	77	290	878	1190						
	67			* 1885	* 0.9	25.28	104	382	905	1215						
	80			1575	1.1	20.96	137	437	932	1253						
	84			1505	1.2	20.06	173	574	938	1330						
	91			1389	1.3	18.59	188	459	945	1244						
		98		1283	1.4	17.17	322	668	952	1348						
		112		1124	1.5	15.10	412	731	963	1357						
		127		991	1.7	13.41	484	770	970	1350						
* service factor < 1.0																
Germotors in Italics include an Energy Efficient Motor and have a "H" in the type																
I				= f _B	0.8 - 1.39		1) with F _A = 0 Lb		2) with F _O = 0 Lb							
II				= f _B	1.4 - 1.99		** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.									
III				= f _B	≥ 2.0											



HELICAL GEAR MOTORS

THREE PHASE

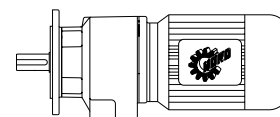


Power	Output speed **			Output torque	Service factor	Red. Ratio	Normal bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx.	Dimen-			
	n ₂ [RPM]			T ₂			F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q vL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust		Mounting position B3	sions page			
[HP]	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]		[LBS]				
	I	II	III													
2.00		143		885	1.9	11.88	504	770	974	1330	SK 372 - 90L/4 SK 372 - 90LH/4	58	50 / 51			
		152		832	1.8	11.17	556	806	977	1339						
			172	735	2.1	9.90	576	801	981	1316						
			196	646	2.3	8.65	605	810	983	1296						
		80		* 1575	* 0.8	20.96	87	447	1373	1253	SK 272 - 90L/4 SK 272 - 90LH/4	58	50 / 51			
		84		* 1505	* 0.8	20.06	106	529	1375	1330						
		91		* 1389	* 0.9	18.59	172	555	1379	1244						
		98		1283	1.0	17.17	266	628	1382	1348						
		112		1124	1.1	15.10	365	695	1386	1357						
		127		991	1.2	13.41	441	740	1391	1350						
		143		885	1.4	11.88	464	740	1393	1330						
		152		832	1.5	11.17	522	779	1393	1339						
		172		735	1.7	9.90	542	779	1395	1316						
		196		646	1.9	8.65	581	794	1397	1296						
			222	566	2.2	7.64	596	785	1397	1271						
			251	504	2.5	6.75	583	785	1400	1251						
			266	478	2.5	6.34	576	772	1400	1231						
			301	416	2.6	5.62	556	756	1400	1202						
			341	372	2.7	4.96	540	747	1400	1177						
			371	336	2.8	4.57	533	763	1400	1170						
			418	301	2.8	4.05	513	731	1402	1134						
			481	266	2.9	3.52	495	709	1402	1103						
			530	239	2.8	3.19	482	689	1402	1073						
			611	204	2.9	2.77	464	675	1364	1044						
		146		* 867	* 0.8	11.41	77	227	743	1406	SK 172 - 90L/4 SK 172 - 90LH/4	49	50 / 51			
		166		* 761	* 0.9	10.07	99	284	743	1400						
		178		* 708	* 0.9	9.35	115	288	743	1379						
		202		628	1.0	8.25	180	322	743	1359						
		216		* 584	* 0.9	7.68	176	313	743	1334						
		240		522	1.0	6.94	214	333	743	1316						
		262		478	1.1	6.34	293	387	743	1323						
		289		434	1.2	5.74	252	347	743	1271						
		319		398	1.3	5.21	311	385	743	1265						
			353	354	1.4	4.71	333	396	743	1244						
			408	310	1.5	4.07	351	401	743	1213						
			426	292	1.5	3.90	349	392	743	1195						
			493	257	1.7	3.37	360	392	743	1159						
			548	230	1.8	3.03	351	376	743	1127						
				635	195	2.1	2.62	369	385	743				1096		
				745	168	2.4	2.23	349	356	743				1044		
				862	150	2.5	1.93	335	347	743				1010		
3.00	6.4			29559	1.0	267.31	2446	5850	5850	9000	SK 973 - 100L/4 SK 973 - 100LH/4	298	54 / 55			
	7.3			25913	1.1	233.44	2896	5850	6284	9000						
		10		18912	1.5	169.33	3479	5850	6903	9000						
		12		15762	1.8	146.30	3661	5850	7108	9000						
			14	13514	2.1	124.17	3764	5850	7227	9000						
			17	11124	2.5	105.37	3857	5850	7333	9000						
			18	10505	2.7	95.04	3877	5850	7355	9000						
			20	9461	3.0	83.00	3908	5850	7394	9000						
			23	8222	3.4	77.24	3942	5850	7432	9000						
			25	7567	3.5	67.45	3958	5850	7450	9000						
			30	6301	3.8	59.18	3983	5850	7479	9000						
				* service factor < 1.0				Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type								
	I			= f _B	0.8 - 1.39	1) with F _A = 0 Lb		2) with F _Q = 0 Lb								
		II		= f _B	1.4 - 1.99	** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.										
			III	= f _B	≥ 2.0											

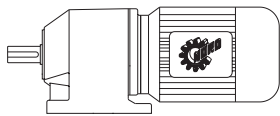


HELICAL GEAR MOTORS

THREE PHASE



Power	Output speed **			Output torque T ₂	Service factor f _B	Red. Ratio i _{total}	Standard bearing		Radial HD bearing F _{Q VL} ¹⁾ OHL	Axial HD bearing F _{A AL} ²⁾ Thrust	Type	Weight approx. Mounting position B3 [LBS]	Dimensions page	
	n ₂ [RPM]						F _{ON} ¹⁾ OHL	F _{AN} ²⁾ Thrust						
	[HP]	AGMA					[LB-IN]	[LBS]						[LBS]
	I	II	III											
3.00			26	7275	2.8	67.05	4532	4469	6215	9000	SK 972 - 100L/4 SK 972 - 100LH/4	299	54 / 55	
			31	6098	3.0	56.59	4550	4343	6226	8960				
	12			* 15762	* 0.9	145.57	1609	4275	4064	7875	SK 873 - 100L/4 SK 873 - 100LH/4	200	54 / 55	
	14			13514	1.1	117.51	1879	4275	4345	7875				
	17			11124	1.3	97.74	2090	4275	4581	7875				
		19		9956	1.5	88.16	2174	4275	4676	7875				
		22		8593	1.7	81.51	2255	4275	4772	7875				
		23		8222	1.8	76.27	2275	4275	4797	7875				
		24		7885	1.9	70.89	2291	4275	4815	7875				
			28	6753	2.2	63.95	2342	4275	4878	7875				
			31	6098	2.4	55.32	2369	4275	4907	7875				
			35	5407	2.8	49.43	2392	4275	4937	7875				
			40	4726	3.1	43.75	2412	4275	4961	7875				
			43	4398	3.0	39.91	2421	4275	4973	7875				
			49	3859	3.1	35.32	2435	4275	4988	7875				
			55	3443	3.3	31.42	2444	4275	5000	7875				
			66	2867	3.5	26.49	2455	4275	5013	7875				
			32	5912	2.1	52.79	3326	2309	5036	6215	SK 872 - 100L/4 SK 872 - 100LH/4	197	54 / 55	
			38	4974	2.2	45.81	3350	2277	5049	6030				
			42	4505	2.2	40.78	3359	2241	5054	5886				
			47	4027	3.3	36.68	3371	2284	5058	5866				
			54	3505	3.9	31.83	3260	2232	5063	5690				
			61	3098	4.4	28.34	3155	2187	5067	5537				
	23			* 8222	* 0.9	75.95	1004	2025	2079	2612	SK 773 - 100L/4 SK 773 - 100LH/4	126	52 / 53	
	25			7567	1.0	68.49	1127	2025	2138	2662				
	26			7275	1.1	64.94	1188	2025	2162	2684				
	30			6301	1.2	57.73	1213	2025	2232	2745				
		35		5407	1.4	49.36	1217	2025	2288	2777				
		41		4611	1.6	42.60	1204	2025	2329	2790				
		47		4027	1.8	36.79	1190	2025	2354	2777				
			53	3567	2.0	32.97	1172	2025	2372	2763				
			61	3098	2.3	28.47	1150	2025	2387	2727				
			70	2699	2.7	25.13	1127	2025	2399	2689				
			78	2425	3.0	22.37	1100	1985	2405	2655	SK 772 - 100L/4 SK 772 - 100LH/4	122	52 / 53	
			89	2124	3.3	19.61	1073	1926	2340	2599				
		49		3859	1.8	35.64	1798	2162	2761	3537				
		50		3779	1.8	34.05	1802	2183	2765	3542				
		58		3257	1.9	30.31	1834	2183	2779	3470				
		65		2912	1.8	26.71	1850	2138	2788	3382	SK 673 - 100L/4 SK 673 - 100LH/4	111	52 / 53	
			70	2699	2.7	24.72	1859	2252	2792	3431				
			73	2593	2.8	23.62	1863	2261	2795	3409				
			83	2283	3.2	21.02	1841	2228	2801	3328				
			94	2009	3.4	18.53	1773	2169	2806	3233				
	29			* 6522	* 0.9	57.30	236	1721	1564	1937				
	32			* 5912	* 0.9	52.12	416	1721	1634	1998				
	36			5257	1.1	47.00	590	1721	1697	2059				
	43			4398	1.3	39.62	803	1721	1766	2113				
		50		3779	1.5	33.55	929	1721	1809	2142				
		59		3204	1.7	29.53	1033	1721	1841	2142				
		62		3053	1.8	28.05	1053	1721	1847	2142				
		66		2867	1.9	26.06	1044	1721	1856	2135				
* service factor < 1.0														
Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type														
I				= f _B 0.8 - 1.39			1) with F _A = 0 Lb		2) with F _O = 0 Lb					
II				= f _B 1.4 - 1.99										
III				= f _B ≥ 2.0										
** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.														



HELICAL GEAR MOTORS

THREE PHASE

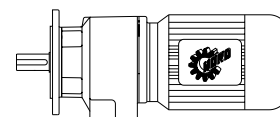


Power	Output speed **			Output torque	Service factor	Red. Ratio	Normal bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page			
[HP]	n ₂ [RPM]			T ₂	f _B	i _{total}	F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q VL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust		[LBS]				
	I	II	III	[LB-IN]			[LBS]	[LBS]	[LBS]	[LBS]						
3.00			74	2558	2.2	23.20	1026	1721	1870	2122	SK 673 - 100L/4 SK 673 - 100LH/4	111	52 / 53			
			83	2283	2.4	20.90	1006	1721	1881	2102						
			94	2009	2.7	18.45	983	1721	1890	2079						
			106	1788	3.0	16.42	961	1688	1897	2045						
	46			4115	1.2	37.02	810	774	2241	3038	SK 672 - 100L/4 SK 672 - 100LH/4	111	52 / 53			
	52			3637	1.3	32.82	968	938	2264	3008						
		59		3204	1.5	28.55	1181	1150	2282	3008						
		68		2779	1.8	25.32	1283	1235	2297	2957						
			80	2363	2.1	21.51	1247	1287	2311	2918						
			89	2124	2.5	19.45	1242	1382	2318	2945						
		92		2053	1.8	18.86	1204	1276	2320	2840						
			100	1894	2.5	17.42	1224	1440	2324	2927						
			113	1673	2.5	15.44	1186	1429	2329	2858						
			125	1513	2.6	13.87	1161	1438	2331	2817						
	46			4115	1.0	37.72	235	1721	1942	2189	SK 573 - 100L/4 SK 573 - 100LH/4	93	52 / 53			
	52			3637	1.1	32.94	273	1721	1960	2219						
	59			3204	1.2	29.01	315	1721	1967	2232						
		66		2867	1.4	25.60	398	1721	1960	2232						
		73		2593	1.5	23.10	459	1721	1951	2232						
		83		2283	1.7	20.90	527	1721	1933	2212						
		92		2053	1.9	18.86	569	1721	1919	2198						
			106	1788	2.2	16.37	610	1721	1886	2167						
	64			2956	1.3	26.70	376	983	2475	3375	SK 572 - 100L/4 SK 572 - 100LH/4	92	52 / 53			
		73		2593	1.5	23.16	545	1078	2475	3375						
		86		2204	1.8	20.17	668	1145	2475	3375						
		92		2053	1.6	18.44	835	1296	2475	3375						
			96	1974	2.0	17.98	826	1256	2475	3375						
		102		1859	1.7	16.63	824	1323	2475	3375						
			112	1690	2.4	15.59	808	1296	2475	3375						
		113		1673	1.7	15.04	808	1312	2475	3375						
			124	1522	2.5	14.02	801	1377	2475	3375						
			137	1381	2.5	12.68	783	1348	2475	3375						
			166	1142	2.8	10.45	761	1377	2475	3375						
	66			* 2867	* 0.8	25.60	626	1721	1782	2167	SK 473 - 100L/4 SK 473 - 100LH/4	93	50 / 51			
	73			* 2593	* 0.8	23.10	675	1721	1778	2167						
	83			* 2283	* 0.9	20.90	720	1721	1764	2151						
	64			2956	1.0	26.70	304	900	2475	3263	SK 472 - 100L/4 SK 472 - 100LH/4	92	50 / 51			
	73			2593	1.1	23.16	500	1017	2475	3263						
	86			2204	1.3	20.17	655	1080	2475	3263						
	92			2053	1.3	18.44	873	1235	2475	3263						
	96			1974	1.3	17.98	851	1211	2475	3263						
		102		1859	1.4	16.63	961	1274	2475	3263						
		112		1690	1.5	15.59	970	1260	2475	3263						
		113		1673	1.5	15.04	977	1271	2475	3263						
		124		1522	1.6	14.02	972	1339	2475	3263						
		137		1381	1.7	12.68	947	1310	2475	3263						
		166		1142	1.9	10.45	918	1352	2475	3263						
* service factor < 1.0																
Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type																
I			= f _B	0.8 - 1.39	1) with F _A = 0 Lb		2) with F _Q = 0 Lb									
	II		= f _B	1.4 - 1.99												
		III	= f _B	2.0												
** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio																

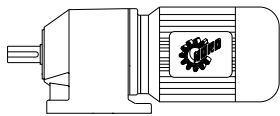


HELICAL GEAR MOTORS

THREE PHASE



Power	Output speed **			Output torque	Service factor	Red. Ratio	Standard bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page			
	n ₂ [RPM]			T ₂			F _{ON} ¹⁾ OHL	F _{AN} ²⁾ Thrust	F _{QVL} ¹⁾ OHL	F _{AL} ²⁾ Thrust						
[HP]	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]			[LBS]			
	I	II	III													
3.00			188	1009	2.1	9.22	896	1339	2475	3263	SK 472 - 100L/4 SK 472 - 100LH/4	92	50 / 51			
			208	912	2.3	8.34	871	1310	2475	3263						
			241	788	2.6	7.23	842	1285	2475	3263						
			276	681	3.0	6.30	810	1247	2475	3263						
		104		1823	1.0	16.28	335	556	783	821	SK 373 - 100L/4 SK 373 - 100LH/4	72	50 / 51			
		127		1487	1.1	13.41	66	277	938	1087	SK 372 - 100L/4 SK 372 - 100LH/4	71	50 / 51			
		143		1319	1.2	11.88	89	351	950	1089						
		152		1248	1.2	11.17	128	419	954	1121						
			172	1097	1.4	9.90	191	455	963	1112						
			196	965	1.6	8.65	277	506	970	1121						
			222	850	1.7	7.64	324	524	977	1112						
			251	752	1.7	6.75	376	556	979	1107						
			266	708	1.8	6.34	389	556	981	1098						
		127		* 1487	* 0.8	13.41	32	251	1377	1087	SK 272 - 100L/4 SK 272 - 100LH/4	71	50 / 51			
		143		* 1319	* 0.9	11.88	45	321	1382	1089						
		152		1248	1.0	11.17	71	385	1384	1121						
		172		1097	1.1	9.90	140	419	1388	1112						
		196		965	1.3	8.65	232	477	1391	1121						
			222	850	1.5	7.64	284	497	1393	1112						
			251	752	1.6	6.75	342	533	1395	1107						
			266	708	1.7	6.34	356	533	1395	1098						
				301	628	2.0	5.62	367	529	1397	1073					
				341	558	2.2	4.96	405	545	1397	1064					
				371	513	2.4	4.57	450	581	1400	1067					
				418	451	2.6	4.05	459	569	1375	1044					
				481	389	2.8	3.52	468	581	1350	1026					
				530	354	2.6	3.19	455	563	1319	1001					
				611	310	2.8	2.77	439	556	1285	981					
				780	239	2.6	2.17	410	518	1206	923					
				900	212	2.8	1.88	394	502	1170	893					
5.00	10			* 31524	* 0.9	169.33	2135	5850	5576	9000	SK 973 - 100L/40 SK 973 - 112MH/4	302	54 / 55			
	12			26267	1.1	146.30	2858	5850	6246	9000						
	14			22514	1.3	124.17	3215	5850	6617	9000						
		17		18541	1.5	105.37	3501	5850	6930	9000						
		18		17514	1.6	95.04	3564	5850	7000	9000						
		20		15762	1.8	83.00	3661	5850	7108	9000						
			23	13709	2.1	77.24	3758	5850	7218	9000						
			25	12611	2.1	67.45	3803	5850	7270	9000						
			30	10505	2.3	59.18	3877	5850	7355	9000						
			34	9275	2.0	52.01	3915	5850	7398	9000						
			40	7885	2.0	44.15	3951	5850	7441	9000						
			41	7691	2.1	42.27	3956	5850	7445	9000						
		26		12125	1.7	67.05	4417	3746	6156	8231	SK 972 - 100L/40 SK 972 - 112MH/4	303	54 / 55			
		31		10169	1.8	56.59	4295	3710	6183	8035						
			37	8523	2.4	46.91	4140	3724	6203	7920						
			43	7328	2.8	39.59	3978	3659	6215	7718						
			77	4098	2.3	22.62	3427	3402	6237	6966						
			85	3708	2.3	20.37	3344	3348	6239	6822						
			98	3213	2.5	17.77	3204	3254	6242	6617						
	* service factor < 1.0															
	Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type															
	I			= f _B 0.8 - 1.39	1) with F _A = 0 Lb										2) with F _O = 0 Lb	
		II		= f _B 1.4 - 1.99	** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.											
			III	= f _B ≥ 2.0												



HELICAL GEAR MOTORS

THREE PHASE

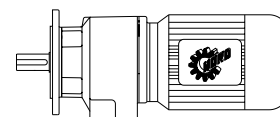


Power	Output speed **			Output torque	Service factor	Red. Ratio	Normal bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page
	n ₂ [RPM]			T ₂			F _{Q N} ¹⁾	F _{A N} ²⁾	F _{Q vL} ¹⁾	F _{A AL} ²⁾			
[HP]	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]			
	I	II	III										
5.00	17			* 18541	* 0.8	97.74	1107	4275	3620	7875	SK 873 - 100L/40 SK 873 - 112MH/4	204	54 / 55
	19			* 16594	* 0.9	88.16	1485	4275	3944	7875			
	22			14328	1.0	81.51	1791	4275	4250	7875			
	23			13709	1.1	76.27	1859	4275	4322	7875			
	24			13133	1.1	70.89	1917	4275	4388	7875			
	28			11257	1.3	63.95	2081	4275	4570	7875			
		31		10169	1.5	55.32	2160	4275	4660	7875			
		35		9009	1.7	49.43	2232	4275	4745	7875			
		40		7885	1.9	43.75	2291	4275	4815	7875			
		43		7328	1.8	39.91	2318	4275	4847	7875			
		49		6434	1.9	35.32	2356	4275	4894	7875	SK 872 - 100L/40 SK 872 - 112MH/4	201	54 / 55
			55	5735	2.0	31.42	2381	4275	4923	7875			
			66	4779	2.1	26.49	2412	4275	4961	7875			
			74	4257	2.0	23.38	2426	4275	4977	7875			
			89	3540	2.1	19.72	2441	4275	4997	7875			
	32			9850	1.3	52.79	3177	1600	4959	5128			
	38			8292	1.3	45.81	3247	1663	4995	5078			
	42			7505	1.3	40.78	3157	1663	5011	5022			
			47	6708	2.0	36.68	3143	1805	5024	5128			
			54	5841	2.4	31.83	3038	1793	5038	5022			
			61	5168	2.7	28.34	2939	1784	5047	4925			
		92		3425	1.9	18.77	2696	1843	5065	4754			
			104	3036	2.1	16.78	2610	1823	5067	4658			
			114	2761	2.1	15.25	2552	1807	5069	4583	SK 773 - 100L/40 SK 773 - 112MH/4	130	52 / 53
	35			* 9009	* 0.8	49.36	144	1148	1886	1859			
	41			7691	1.0	42.60	477	1296	2014	1996			
	47			6708	1.1	36.79	702	1391	2097	2090			
	53			5947	1.2	32.97	857	1447	2147	2149			
		61		5168	1.4	28.47	938	1492	2178	2196			
		70		4505	1.6	25.13	941	1523	2198	2232			
		78		4044	1.8	22.37	938	1526	2201	2237			
			89	3540	2.0	19.61	934	1526	2196	2237			
			100	3151	1.8	17.50	923	1523	2160	2232			
			112	2814	1.9	15.58	911	1499	2106	2214			
			127	2478	2.0	13.66	896	1478	2050	2189	SK 772 - 100L/40 SK 772 - 112MH/4	127	52 / 53
	49			6434	1.1	35.64	311	286	2653	2716			
	50			6301	1.1	34.05	425	398	2660	2745			
	58			5434	1.1	30.31	756	713	2702	2750			
	65			4850	1.1	26.71	855	806	2727	2716			
		70		4505	1.6	24.72	1402	1328	2741	2844			
		73		4319	1.7	23.62	1517	1438	2747	2858			
		83		3797	1.9	21.02	1645	1514	2763	2831			
			94	3354	2.1	18.53	1602	1501	2777	2772			
			100	3151	1.5	17.36	1618	1658	2781	2844			
			109	2894	2.1	15.89	1562	1575	2788	2750			
				2867	1.6	15.66	1591	1694	2788	2831			
				2460	1.7	13.54	1541	1726	2797	2799			
				2186	1.8	12.10	1503	1746	2801	2754			
				1859	1.9	10.23	1449	1748	2808	2693			
* service factor < 1.0													
Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type													
I				= f _B 0.8 - 1.39		1) with F _A = 0 Lb		2) with F _Q = 0 Lb					
II				= f _B 1.4 - 1.99									
III				= f _B ≥ 2.0									
** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio													

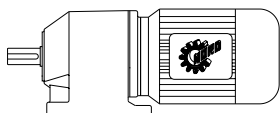


HELICAL GEAR MOTORS

THREE PHASE



Power	Output speed **			Output torque	Service factor	Red. Ratio	Standard bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page	
	n ₂ [RPM]			T ₂			F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q VL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust				
[HP]	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]			[LBS]	
	I	II	III											
5.00		192		1646	1.9	9.11	1400	1719	2810	2633	SK 772 - 100L/40 SK 772 - 112MH/4	127	52 / 53	
			216	1460	2.0	8.10	1361	1710	2813	2583				
			245	1283	2.0	7.14	1310	1661	2815	2507				
			256	1230	2.1	6.83	1303	1685	2815	2507				
			290	1089	2.1	6.02	1253	1631	2817	2430				
	43			* 7328	* 0.8	39.62	22	1003	1420	1294	SK 673 - 100L/40 SK 673 - 112MH/4	116	52 / 53	
	50			* 6301	* 0.9	33.55	63	1119	1559	1433				
	59			5345	1.0	29.53	95	1217	1658	1550				
	62			5089	1.1	28.05	171	1233	1685	1571				
	66			4779	1.2	26.06	266	1258	1712	1600				
	74			4257	1.3	23.20	412	1296	1760	1647				
		83		3797	1.5	20.90	529	1323	1782	1679				
		94		3354	1.6	18.45	635	1325	1800	1703				
		106		2974	1.8	16.42	711	1325	1807	1715				
	52			* 6062	* 0.8	32.82	71	43	2111	2050	SK 672 - 100L/40 SK 672 - 112MH/4	116	52 / 53	
	59			* 5345	* 0.9	28.55	115	87	2165	2156				
	68			4637	1.1	25.32	165	127	2212	2194				
	80			3938	1.3	21.51	212	181	2250	2261				
		89		3540	1.5	19.45	284	268	2268	2381				
	92			3425	1.1	18.86	405	302	2273	2239				
		100		3151	1.5	17.42	644	626	2284	2446				
		113		2788	1.5	15.44	763	736	2297	2419				
		125		2522	1.6	13.87	909	882	2306	2419				
		144		2186	1.7	12.09	1010	997	2318	2410				
		166		1903	1.7	10.52	983	1031	2324	2381	SK 573 - 100L/40 SK 573 - 112MH/4	98	52 / 53	
		186		1699	1.7	9.33	956	1031	2329	2331				
		209		1505	1.8	8.31	941	1060	2331	2309				
		220		1434	1.7	7.93	925	1049	2333	2286				
		236		1336	1.9	7.37	916	1073	2336	2273				
		278		1133	1.9	6.26	882	1076	2338	2212				
			317	991	2.0	5.49	857	1082	2340	2165				
			362	867	2.1	4.80	833	1076	2340	2117				
	66			* 4779	* 0.8	25.60	30	44	1458	1616		SK 573 - 100L/40 SK 573 - 112MH/4	98	52 / 53
	73			* 4319	* 0.9	23.10	35	170	1494	1667				
	83			3797	1.0	20.90	72	385	1535	1721				
	92			3425	1.2	18.86	88	698	1562	1753				
	106			2974	1.3	16.37	108	1391	1575	1784				
	64			* 4929	* 0.8	26.70	0	0	203	3375	SK 572 - 100L/40 SK 572 - 112MH/4	97	52 / 53	
	73			* 4319	* 0.9	23.16	35	100	524	3375				
	86			3664	1.1	20.17	98	279	986	3375				
	92			3425	1.0	18.44	134	383	1553	3375				
	96			3283	1.2	17.98	144	411	1510	3375				
	102			3089	1.0	16.63	172	492	1805	3375				
		112		2814	1.4	15.59	194	554	1852	3375				
	113			2788	1.0	15.04	205	587	1910	3375				
		124		2540	1.5	14.02	227	648	2192	3375				
		137		2301	1.5	12.68	290	675	2243	3375				
		166		1903	1.7	10.45	529	837	2475	3375				
		188		1673	1.8	9.22	626	898	2475	3375				
		208		1513	1.8	8.34	637	889	2475	3375				
		241		1310	1.8	7.23	623	918	2475	3375				
		276		1142	1.8	6.30	608	918	2475	3375				
		310		1018	1.9	5.61	596	929	2475	3375				
		361		876	1.9	4.82	576	927	2475	3375				
* service factor < 1.0														
Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type														
				1) with F _A = 0 Lb				2) with F _Q = 0 Lb						
				** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.										



HELICAL GEAR MOTORS

THREE PHASE



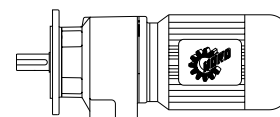
Power	Output speed **			Output torque	Service factor	Red. Ratio	Normal bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page
	n ₂ [RPM]						F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust					
	AGMA												
[HP]	I	II	III	T ₂ [LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]		[LBS]	
5.00	86			* 3664	* 0.8	20.17	112	355	864	3263	SK 472 - 100L/40 SK 472 - 112MH/4	97	50 / 51
	92			* 3425	* 0.8	18.44	133	360	1523	3263			
	96			* 3283	* 0.8	17.98	153	370	1483	3263			
	102			* 3089	* 0.8	16.63	173	401	1827	3263			
	112			* 2814	* 0.9	15.59	190	456	1892	3263			
	113			* 2788	* 0.9	15.04	213	473	1951	3263			
	124			2540	1.0	14.02	235	594	2284	3263			
	137			2301	1.0	12.68	250	619	2347	3263			
	166			1903	1.2	10.45	520	790	2475	3263			
	188			1673	1.3	9.22	639	855	2475	3263			
		208		1513	1.4	8.34	666	855	2475	3263			
		241		1310	1.6	7.23	745	882	2475	3263			
		276		1142	1.8	6.30	736	891	2475	3263			
		310		1018	1.9	5.61	722	902	2475	3263			
		361		876	1.9	4.82	698	900	2475	3263			
			412	761	2.0	4.23	680	909	2475	3263			
			479	655	2.1	3.63	659	900	2414	3263			
			548	575	2.0	3.17	630	846	2320	3263			
			637	496	2.1	2.73	610	835	2232	3263			
	172			* 1832	* 0.8	9.90	87	63	909	709	SK 372 - 100L/40 SK 372 - 112MH/4	76	50 / 51
	196			* 1611	* 0.9	8.65	110	100	929	767			
	222			1416	1.0	7.64	129	130	945	792			
	251			1257	1.0	6.75	145	156	954	826			
	266			1186	1.1	6.34	153	168	959	826			
	301			1044	1.2	5.62	166	190	968	826			
	341			920	1.3	4.96	178	209	972	846			
		371		850	1.4	4.57	186	275	977	873			
		418		752	1.6	4.05	195	290	979	864			
		481		655	1.7	3.52	205	331	983	869			
		530		593	1.6	3.19	214	329	986	853			
		611		513	1.7	2.77	268	360	988	851			
		780		407	1.6	2.17	263	335	990	803			
		900		354	1.7	1.88	295	349	990	794			
	196			* 1611	* 0.8	8.65	15	63	1055	767	SK 272 - 100L/40 SK 272 - 112MH/4	76	50 / 51
	222			* 1416	* 0.9	7.64	67	100	1085	792			
	251			1257	1.0	6.75	101	139	1123	826			
	266			1186	1.0	6.34	115	164	1121	826			
	301			1044	1.2	5.62	122	199	1116	826			
	341			920	1.3	4.96	137	227	1139	846			
		371		850	1.4	4.57	151	252	1175	873			
		418		752	1.6	4.05	160	268	1157	864			
		481		655	1.7	3.52	171	311	1159	869			
		530		593	1.6	3.19	185	308	1134	853			
		611		513	1.7	2.77	241	342	1130	851			
		780		407	1.6	2.17	241	317	1064	803			
		900		354	1.7	1.88	275	338	1049	794			
7.50	17			27816	1.0	105.37	2678	5850	6068	9000	SK 973 - 132S/4 SK 973 - 132SH/4	342	54 / 55
	18			26267	1.1	95.04	2858	5850	6246	9000			
	20			23647	1.2	83.00	3116	5850	6512	9000			
		23		20559	1.4	77.24	3366	5850	6779	9000			
	* service factor < 1.0												
Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type													
	I			= f _B 0.8 - 1.39	1) with F _A = 0 Lb				2) with F _Q = 0 Lb				
	II			= f _B 1.4 - 1.99	** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio								
		III		= f _B ≥ 2.0									

** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.

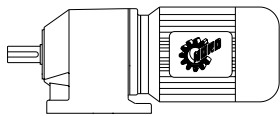


HELICAL GEAR MOTORS

THREE PHASE



Power	Output speed **			Output torque	Service factor	Red. Ratio	Standard bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page			
[HP]	n ₂ [RPM]			T ₂	f _B	i _{total}	F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q VL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust		[LBS]				
	AGMA			[LB-IN]			[LBS]	[LBS]	[LBS]	[LBS]			[LBS]			
	I	II	III													
7.50		25		18912	1.5	67.45	3479	5850	6903	9000	SK 973 - 132S/4 SK 973 - 132SH/4	342	54 / 55			
		30		15762	1.8	59.18	3661	5850	7108	9000						
			34	13912	2.0	52.01	3749	5850	7207	9000						
			40	11824	2.4	44.15	3832	5850	7304	9000						
			41	11532	2.5	42.27	3843	5850	7315	9000						
			47	10062	2.8	37.09	3890	5850	7371	9000						
			49	9647	2.9	35.88	3866	5850	7387	9000						
			56	8443	3.4	30.80	3746	5850	7425	9000						
			64	7390	3.6	27.50	3616	5850	7454	9000						
		37		12779	1.6	46.91	3818	3092	6147	6966	SK 972 - 132S/4 SK 972 - 132SH/4	343	54 / 55			
		43		11001	1.9	39.59	3706	3092	6174	6867						
			48	9850	2.1	36.41	3641	3150	6188	6876						
			56	8443	2.7	30.73	3512	3121	6203	6734						
			66	7169	3.2	26.57	3380	3067	6217	6586						
		24		* 19700	* 0.8	70.89	770	4275	3393	7875	SK 873 - 132S/4 SK 873 - 132SH/4	244	54 / 55			
		28		* 16886	* 0.9	63.95	1436	4275	3899	7875						
		31		15257	1.0	55.32	1676	4275	4133	7875						
		35		13514	1.1	49.43	1879	4275	4345	7875						
		40		11824	1.3	43.75	2034	4275	4518	7875						
			43	11001	1.4	39.91	2099	4275	4592	7875						
			49	9647	1.5	35.32	2194	4275	4700	7875						
			55	8593	1.7	31.42	2255	4275	4772	7875						
			66	7169	2.1	26.49	2324	4275	4856	7875						
			74	6390	2.3	23.38	2358	4275	4896	7875						
			89	5310	2.7	19.72	2394	4275	4941	7749	SK 872 - 132S/4 SK 872 - 132SH/4	241	54 / 55			
			104	4549	2.9	16.69	2329	4120	4968	7445						
		47		10062	1.3	36.68	2808	1199	4955	4196						
		54		8753	1.6	31.83	2745	1251	4986	4190						
		61		7753	1.8	28.34	2669	1289	5006	4169						
			70	6753	2.0	24.90	2642	1413	5022	4271						
			79	5983	2.3	22.16	2567	1418	5036	4203						
			92	5142	2.5	18.77	2531	1532	5047	4284						
			95	4974	2.5	18.32	2477	1465	5049	4169						
			104	4549	2.7	16.78	2468	1548	5054	4237						
			114	4151	2.9	15.25	2419	1557	5058	4203	SK 773 - 132S/4 SK 773 - 132SH/4	170	52 / 53			
			120	3938	2.9	14.56	2376	1535	5060	4142						
			132	3584	3.0	13.23	2324	1537	5063	4104						
			151	3133	3.2	11.61	2255	1535	5067	4019						
			169	2797	3.2	10.34	2180	1508	5069	3935						
		53		* 8921	* 0.8	32.97	150	145	1438	1386						
		61		* 7753	* 0.9	28.47	160	788	1564	1535						
		70		6753	1.1	25.13	277	898	1674	1649						
		78		6062	1.2	22.37	443	974	1728	1717						
		89		5310	1.3	19.61	608	1046	1782	1787						
			100	4726	1.5	17.50	729	1089	1820	1823	SK 772 - 132S/4 SK 772 - 132SH/4	166	52 / 53			
			112	4221	1.6	15.58	767	1123	1838	1859						
			127	3726	1.8	13.66	770	1139	1854	1877						
		70		6753	1.1	24.72	270	210	2637	2129						
		73		6478	1.1	23.62	279	237	2651	2171						
		83		5699	1.3	21.02	282	256	2691	2201						
			94	5027	1.4	18.53	300	290	2720	2194						
* service factor < 1.0																
Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type																
I				= f _B 0.8 - 1.39			1) with F _A = 0 Lb		2) with F _O = 0 Lb							
II				= f _B 1.4 - 1.99												
III				= f _B ≥ 2.0												
** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.																



HELICAL GEAR MOTORS

THREE PHASE



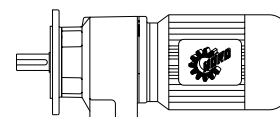
Power	Output speed **			Output torque	Service factor	Red. Ratio	Normal bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page				
	n ₂ [RPM]			T ₂			F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q vL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust							
[HP]	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]							
	I	II	III									[LBS]					
7.50	100			4726	1.0	17.36	578	527	2732	2338	SK 772 - 132S/4 SK 772 - 132SH/4	166	52 / 53				
		109		4337	1.4	15.89	448	412	2745	2250							
	110			4301	1.1	15.66	817	758	2747	2365							
		128		3690	1.7	13.54	1134	1082	2768	2403							
		144		3283	1.9	12.10	1337	1238	2779	2403							
			170	2779	2.1	10.23	1343	1330	2790	2403							
			192	2460	2.3	9.11	1301	1341	2797	2360							
		66			* 7169	* 0.8	26.06	150	327	1037	941	SK 673 - 132S/4 SK 673 - 132SH/4	155	52 / 53			
		74			* 6390	* 0.9	23.20	162	433	1166	1053						
		83			5699	1.0	20.90	179	605	1258	1154						
		94			5027	1.1	18.45	189	712	1337	1238						
		106			4460	1.2	16.42	215	889	1400	1303						
		100			4726	1.0	17.42	230	201	2205	1847				SK 672 - 132S/4 SK 672 - 132SH/4	155	52 / 53
		113			4186	1.0	15.44	235	212	2237	1868						
		125			3779	1.1	13.87	241	217	2257	1924						
			144		3283	1.4	12.09	232	207	2279	1982						
			166		2850	1.7	10.52	254	245	2295	2005						
			186		2540	1.8	9.33	360	342	2306	1985						
				209	2266	2.0	8.31	531	509	2315	1991						
				220	2151	2.2	7.93	560	542	2318	1982						
				236	2000	2.2	7.37	691	671	2322	2003						
				278	1699	2.7	6.26	803	774	2329	1973						
				317	1496	2.8	5.49	785	808	2331	1953						
				362	1310	3.0	4.80	770	839	2336	1933						
				414	1142	3.0	4.20	743	830	2338	1883						
				443	1071	3.2	3.93	743	866	2338	1886						
				504	938	3.2	3.45	716	851	2340	1832						
				598	788	3.2	2.91	689	848	2333	1778						
		92			* 5142	* 0.8	18.86	100	132	1094	1199	SK 573 - 132S/4 SK 573 - 132SH/4	138	52 / 53			
		106			* 4460	* 0.9	16.37	111	132	1177	1303						
		124			3814	1.0	14.02	49	300	473	3375	SK 572 - 132S/4 SK 572 - 132SH/4	136	52 / 53			
		137			3452	1.0	12.68	66	300	646	3375						
		166			2850	1.2	10.45	133	345	1323	3375						
		188			2513	1.3	9.22	165	377	1584	3375						
			208		2274	1.5	8.34	170	371	1656	3375						
			241		1965	1.6	7.23	195	464	1843	3375						
			276		1717	1.8	6.30	263	509	1926	3375						
				310	1522	2.0	5.61	362	569	2050	3375						
				361	1310	2.1	4.82	441	610	2120	3375						
				412	1151	2.4	4.23	506	641	2187	3375						
				479	991	2.8	3.63	497	675	2237	3375						
		166			* 2850	* 0.8	10.45	142	330	1312	3263	SK 472 - 132S/4 SK 472 - 132SH/4	136	50 / 51			
		188			* 2513	* 0.8	9.22	171	347	1618	3263						
		208			* 2274	* 0.9	8.34	185	392	1692	3263						
		241			1965	1.0	7.23	200	421	1922	3263						
		276			1717	1.2	6.30	221	464	2027	3263						
		310			1522	1.3	5.61	344	531	2183	3263						
			361		1310	1.5	4.82	439	576	2257	3263						
			412		1151	1.7	4.23	520	614	2342	3263						
			479		991	1.8	3.63	596	650	2322	3263						
				548	867	2.1	3.17	574	612	2230	3263						
				637	743	2.3	2.73	563	637	2158	3263						
10.0	17			* 37090	* 0.8	105.37	198	5850	4597	9000	SK 973 - 132M/4 SK 973 - 132MH/4	366	54 / 55				
				* service factor < 1.0													
	I			= f _B	0.8 - 1.39	1) with F _A = 0 Lb		2) with F _Q = 0 Lb									
		II		= f _B	1.4 - 1.99	** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.											
			III	= f _B	≥ 2.0												

Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type



HELICAL GEAR MOTORS

THREE PHASE



Power	Output speed **			Output torque	Service factor	Red. Ratio	Standard bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page
	n ₂ [RPM]			T ₂			F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q VL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust			
[HP]	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]		[LBS]	
	I	II	III										
10.0	18			* 35028	* 0.8	95.04	1341	5850	5000	9000	SK 973 - 132M/4 SK 973 - 132MH/4	366	54 / 55
	20			* 31524	* 0.9	83.00	2135	5850	5576	9000			
	23			27417	1.0	77.24	2725	5850	6116	9000			
	25			25223	1.1	67.45	2966	5850	6356	9000			
	30			21019	1.3	59.18	3332	5850	6743	9000			
		34		18541	1.5	52.01	3501	5850	6930	9000			
		40		15762	1.8	44.15	3661	5850	7108	9000			
		41		15381	1.8	42.27	3679	5850	7128	9000			
			47	13417	2.1	37.09	3697	5850	7232	9000			
			49	12868	2.2	35.88	3679	5850	7259	9000			
			56	11257	2.5	30.80	3573	5850	7326	9000			
			64	9850	2.7	27.50	3472	5850	7380	9000			
			72	8753	2.7	24.20	3380	5850	7416	9000			
			82	7691	2.8	21.37	3278	5850	7445	9000			
			85	7416	2.7	20.54	3247	5850	7394	9000			
			96	6567	2.8	18.14	3152	5675	7250	9000			
		37		17036	1.2	46.91	3479	2446	6066	6010	SK 972 - 132M/4 SK 972 - 132MH/4	367	54 / 55
			43	14664	1.4	39.59	3407	2522	6113	6021			
			48	13133	1.5	36.41	3389	2655	6140	6147			
				11257	2.0	30.73	3292	2684	6170	6089			
			56	9549	2.4	26.57	3182	2689	6192	6010			
			77	8186	2.4	22.62	3132	2790	6208	6068			
			78	8080	2.7	22.53	3074	2680	6208	5886			
			85	7416	2.5	20.37	3067	2790	6215	6010			
			98	6434	2.6	17.77	2972	2768	6224	5895			
		35		* 18019	* 0.8	49.43	1224	4192	3713	7875	SK 873 - 132M/4 SK 873 - 132MH/4	268	54 / 55
		40		* 15762	* 0.9	43.75	1609	4239	4064	7875			
		43		14664	1.0	39.91	1751	4275	4210	7875			
		49		12868	1.2	35.32	1942	4246	4415	7875			
		55		11461	1.3	31.42	2066	4232	4552	7875			
			66	9549	1.6	26.49	2198	4147	4707	7875			
			74	8523	1.7	23.38	2259	4073	4777	7700			
			89	7080	2.0	19.72	2295	3944	4860	7409			
			104	6062	2.2	16.69	2230	3827	4910	7153			
		47		13417	1.0	36.68	1769	594	2538	3278	SK 872 - 132M/4 SK 872 - 132MH/4	265	54 / 55
		54		11673	1.2	31.83	2320	709	3080	3357			
		61		10337	1.3	28.34	2399	783	3434	3418			
			70	9009	1.5	24.90	2410	990	4331	3614			
			79	7983	1.7	22.16	2356	1031	4527	3614			
			92	6850	1.9	18.77	2367	1226	5022	3818			
			95	6638	1.9	18.32	2304	1143	4993	3674			
				6062	2.0	16.78	2322	1276	5033	3823			
			114	5531	2.1	15.25	2293	1307	5040	3818			
			120	5257	2.2	14.56	2250	1289	5045	3762			
			132	4779	2.3	13.23	2214	1316	5051	3751			
			151	4177	2.4	11.61	2156	1343	5056	3722			
			169	3735	2.4	10.34	2086	1330	5060	3650			
			181	3487	2.6	9.64	2068	1357	5063	3668			
			204	3089	2.6	8.58	2003	1343	5067	3580			
			232	2717	2.8	7.58	1953	1357	5069	3546			
		70		* 9009	* 0.8	25.13	20	104	1121	1073	SK 773 - 132M/4 SK 773 - 132MH/4	194	52 / 53
		78		* 8080	* 0.9	22.37	43	209	1247	1202			
		89		7080	1.0	19.61	101	431	1366	1330			
		100		6301	1.1	17.50	122	668	1442	1427			
		112		5629	1.2	15.58	293	740	1503	1490			
* service factor < 1.0													
Gearmotors in Italics include an Energy Efficient Motor and have a “H” in the type													
I = f _B 0.8 - 1.39 1) with F _A = 0 Lb 2) with F _Q = 0 Lb													
II = f _B 1.4 - 1.99													
III = f _B ≥ 2.0													
** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.													

Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type

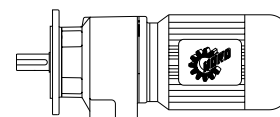


Power	Output speed **			Output torque	Service factor	Red. Ratio	Normal bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page		
							F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q VL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust					
	[HP]	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]	[LBS]			
	I	II	III												
10.0	70			* 9009	* 0.8	24.72	160	131	1571	1404	SK 772 - 132M/4 SK 772 - 132MH/4	191	52 / 53		
	73			* 8638	* 0.8	23.62	191	137	1908	1481					
	83			7593	1.0	21.02	240	142-	2358	1586					
	94			6708	1.0	18.53	260	154	2558	1607					
	109			5788	1.1	15.89	271	164	2687	1746					
	110			5735	0.8	15.66	280	177	2689	1904					
	128			4929	1.3	13.54	287	202	2725	2003					
		144		4381	1.4	12.10	320	304	2745	2050					
		170		3708	1.6	10.23	740	691	2765	2106					
		192		3283	1.7	9.11	855	815	2779	2086					
		216		2921	1.9	8.10	1049	997	2788	2097					
			245	2575	2.1	7.14	1078	1028	2795	2054					
			256	2460	2.1	6.83	1154	1107	2797	2097					
		94		* 6708	* 0.8	18.45	86	81	864	770	SK 673 - 132M/4 SK 673 - 132MH/4	179	52 / 53		
		106		* 5947	* 0.9	16.42	103	98	981	884					
		100		* 6301	* 0.8	17.42	35	20	1208	1242	SK 672 - 132M/4 SK 672 - 132MH/4	179	52 / 53		
		113		* 5576	* 0.8	15.44	70	78	1537	1321					
		125		* 5045	* 0.8	13.87	122	131	1935	1431					
		144		4381	1.1	12.09	223	160	2225	1544					
		166		3797	1.3	10.52	227	169	2257	1636					
			186	3390	1.4	9.33	231	169	2275	1636					
			209	3018	1.5	8.31	234	172	2291	1685					
			220	2867	1.7	7.93	240	172	2295	1685					
			236	2673	1.7	7.37	242	185	2302	1721					
				2266	2.0	6.26	242	209	2315	1737					
				1991	2.1	5.49	403	387	2322	1746					
				362	2.2	4.80	556	542	2327	1755					
				414	2.3	4.20	601	587	2331	1719					
				443	2.4	3.93	691	677	2333	1737					
				504	2.4	3.45	671	677	2336	1703					
				598	2.4	2.91	648	693	2248	1658					
		166		* 3797	* 0.9	10.45	39	340	—	3375	SK 572 - 132M/4 SK 572 - 132MH/4	161	52 / 53		
		188		3354	1.0	9.22	44	342	437	3375					
		208		3036	1.1	8.34	74	343	590	3375					
		241		2620	1.2	7.23	101	351	941	3375					
		276		2283	1.3	6.30	130	356	1127	3375					
			310	2036	1.5	5.61	142	360	1330	3375					
			361	1743	1.6	4.82	183	378	1508	3375					
			412	1531	1.8	4.23	190	378	1656	3375					
				1319	2.1	3.63	290	446	1782	3375					
			548	1151	1.9	3.17	286	423	1730	3375					
				991	2.2	2.73	367	468	1811	3375					
		241		* 2620	* 0.8	7.23	92	330	887	3263	SK 472 - 132M/4 SK 472 - 132MH/4	161	50 / 51		
		276		* 2283	* 0.9	6.30	98	332	1116	3263					
		310		2036	1.0	5.61	113	337	1359	3263					
		361		1743	1.1	4.82	118	339	1562	3263					
	412		1531	1.2	4.23	133	342	1746	3263						
		479	1319	1.4	3.63	272	412	1899	3263						
		548	1151	1.5	3.17	266	392	1832	3263						
		637	991	1.7	2.73	367	441	1940	3263						
15.0	30			* 31524	* 0.9	59.18	2135	5450	5576	9000	SK 973 - 160M/4 SK 973 - 160MH/4	441	54 / 55		
	41			23063	1.2	42.27	3168	5618	6568	9000					
		47		20125	1.4	37.09	3278	5618	6813	9000					
		49		19302	1.5	35.88	3269	5618	6876	9000					
				* service factor < 1.0						Gearmotors in Italics include an Energy Efficient Motor and have a “H” in the type					
	I			= f _B	0.8 - 1.39	1) with F _A = 0 Lb			2) with F _Q = 0 Lb						
		II		= f _B	1.4 - 1.99										
			III	= f _B	≥ 2.0										
	** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio														



HELICAL GEAR MOTORS

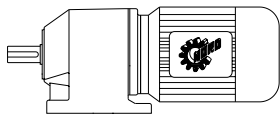
THREE PHASE



Power	Output speed **			Output torque	Service factor	Red. Ratio	Standard bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page
	n ₂ [RPM]			T ₂			F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust	F _{Q VL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust			
[HP]	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]			
	I	II	III									[LBS]	
15.0		56		16886	1.7	30.80	3229	5564	6905	9000	SK 973 - 160M/4 SK 973 - 160MH/4	441	54 / 55
		64		14780	1.9	27.50	3175	5468	6881	9000			
			72	13133	2.1	24.20	3119	5398	6838	9000			
			82	11532	2.2	21.37	3049	5254	6773	9000			
			85	11124	2.2	20.54	3026	5236	6768	9000			
	48			19700	1.0	36.41	2853	1667	5594	4667	SK 972 - 160M/4 SK 972 - 160MH/4	442	54 / 55
	56			16886	1.3	30.73	2828	1820	6068	4811			
		66		14328	1.6	26.57	2788	1935	6120	4871			
			77	12284	2.0	22.62	2813	2169	6154	5128			
			78	12125	1.8	22.53	2723	2018	6156	4903			
			85	11124	2.1	20.37	2788	2232	6172	5162			
			98	9647	2.3	17.77	2727	2286	6190	5171			
			113	8372	2.5	15.46	2666	2324	6206	5162			
			126	7505	2.7	13.96	2617	2333	6215	5121			
			142	6664	2.9	12.41	2554	2342	6221	5072			
			149	6345	2.9	11.79	2516	2315	6224	5015			
			168	5629	3.3	10.47	2455	2309	6228	4959			
	49			* 19302	* 0.8	35.32	902	2909	3474	7106	SK 873 - 160M/4 SK 873 - 160MH/4	343	54 / 55
	55			* 17196	* 0.9	31.42	1384	3029	3850	7083			
	66			14328	1.0	26.49	1791	3152	4250	7004			
	74			12779	1.2	23.38	1951	3193	4424	6928			
	89			10629	1.3	19.72	2043	3218	4624	6761			
		104		9098	1.5	16.69	2012	3186	4739	6602	SK 872 - 160M/4 SK 872 - 160MH/4	340	54 / 55
	70			13514	1.0	24.90	296	243	464	2345			
	79			11974	1.1	22.16	410	251	1037	2444			
	95			9956	1.2	18.32	1481	495	2113	2682			
	104			9098	1.3	16.78	2014	729	3218	2993			
		114		8292	1.4	15.25	2009	808	3573	3056			
		120		7885	1.6	14.56	1973	799	3510	3026			
		132		7169	1.7	13.23	1962	869	3814	3069			
		151		6266	1.9	11.61	1937	952	4156	3123			
			169	5593	2.1	10.34	1892	970	4246	3103			
			181	5222	2.2	9.64	1895	1031	4516	3164			
			204	4637	2.4	8.58	1845	1042	4545	3123			
			232	4080	2.7	7.58	1816	1098	4813	3155			
			259	3655	2.9	6.75	1769	1096	4770	3103			
			276	3425	2.9	6.34	1748	1098	4772	3085			
			314	3009	3.0	5.57	1699	1114	4662	3056			
			356	2655	3.1	4.92	1654	1118	4545	3006			
	170			5567	1.0	10.23	270	147	2696	1510	SK 772 - 160M/4 SK 772 - 160MH/4	266	52 / 53
	192			4929	1.1	9.11	278	153	2725	1553			
	216			4381	1.3	8.10	285	167	2745	1618			
		245		3859	1.4	7.14	291	168	2761	1618			
		256		3690	1.4	6.83	290	172	2768	1692			
		290		3257	1.6	6.02	303	191	2779	1672			
		338		2797	1.8	5.16	484	452	2781	1703			
			400	2363	2.1	4.37	736	707	2732	1721			
			458	2062	2.3	3.81	704	671	2621	1656			
			542	1743	2.5	3.22	884	815	2563	1658			
			622	1522	2.3	2.81	851	790	2468	1604			
			733	1292	2.5	2.38	828	833	2405	1591			
20.0	41			* 30754	* 0.9	42.27	2266	4271	5351	9000	SK 973 - 160L/4 SK 973 - 160LH/4	474	54 / 55
	47			26833	1.1	37.09	2795	4446	5643	9000			
	49			25736	1.1	35.88	2840	4460	5697	9000			
				* service factor < 1.0									
	I			= f _B	0.8 - 1.39	1) with F _A = 0 Lb			2) with F _Q = 0 Lb				
		II		= f _B	1.4 - 1.99								
			III	= f _B	≥ 2.0	** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.							

Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type

** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.



HELICAL GEAR MOTORS

THREE PHASE



Power	Output speed **			Output torque	Service factor	Red. Ratio	Normal bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page			
	n ₂ [RPM]						F _{Q N} ¹⁾ OHL	F _{A N} ²⁾ Thrust								
	[HP]	AGMA												T ₂	f _B	i _{total}
	I	II	III	[LB-IN]								[LBS]				
20.0	56			22514	1.3	30.80	2860	4583	5875	9000	SK 973 - 160L/4 SK 973 - 160LH/4	474	54 / 55			
		64		19700	1.4	27.50	2858	4599	6003	9000						
		72		17514	1.6	24.20	2842	4606	6059	9000						
		82		15381	1.7	21.37	2810	4583	6082	9000						
		85		14833	1.7	20.54	2799	4583	6089	9000						
		96		13133	1.8	18.14	2761	4511	6073	9000						
		77		16373	1.5	22.62	2477	1564	5288	4210	SK 972 - 160L/4 SK 972 - 160LH/4	475	54 / 55			
		85		14833	1.6	20.37	2480	1670	5758	4340						
		98		12868	1.7	17.77	2471	1802	6145	4446						
		113		11160	1.9	15.46	2444	1901	6172	4525						
		126		10009	2.0	13.96	2417	1960	6185	4570						
		142		8877	2.2	12.41	2381	2007	6199	4570						
		149		8461	2.2	11.79	2356	1996	6203	4525						
		168		7505	2.4	10.47	2309	2021	6215	4525						
		194		6496	2.4	9.05	2237	2018	6221	4439						
		204		6177	2.3	8.64	2201	1982	6226	4390						
		66		* 19107	* 0.8	26.49	959	2187	3512	6143						
		74		* 17036	* 0.9	23.38	1411	2324	3875	6152	SK 873 - 160L/4 SK 873 - 160LH/4	376	54 / 55			
		89		14169	1.0	19.72	1773	2498	4271	6131						
		104		12125	1.1	16.69	1782	2574	4417	6073						
		104		12125	1.0	16.78	227	222	675	2147	SK 872 - 160L/4 SK 872 - 160LH/4	373	54 / 55			
		114		11063	1.1	15.25	700	239	1289	2300						
		120		10505	1.2	14.56	707	245	1280	2275						
		132		9549	1.3	13.23	1242	425	1818	2394						
		151		8354	1.4	11.61	1717	560	2455	2529						
		169		7461	1.6	10.34	1694	608	2673	2552						
		181		6965	1.6	9.64	1712	709	3119	2666						
		204		6177	1.8	8.58	1681	745	3258	2678						
		232		5434	2.0	7.58	1679	851	3717	2765						
		259		4868	2.2	6.75	1640	862	3778	2743						
		276		4567	2.2	6.34	1622	875	3841	2738						
		314		4018	2.3	5.57	1593	916	4010	2747						
		356		3540	2.4	4.92	1562	947	4136	2743						
		414		3044	2.1	4.23	1472	887	3863	2601						
		463		2726	2.2	3.78	1445	907	3940	2599						
		526		2398	2.3	3.33	1409	923	3956	2570						
		596		2115	2.4	2.94	1377	932	3857	2545						
		170		* 7416	* 0.8	10.23	80	76	659	925	SK 772 - 160L/4 SK 772 - 160LH/4	299	52 / 53			
		192		* 6567	* 0.8	9.11	101	103	1060	1015						
		216		5841	1.0	8.10	143	122	1598	1134						
		245		5151	1.0	7.14	198	163	1773	1170						
		256		4929	1.1	6.83	216	198	2225	1283						
		290		4345	1.2	6.02	223	201	2336	1296						
		338		3735	1.4	5.16	227	209	2500	1375						
		400		3151	1.6	4.37	235	219	2495	1447						
		458		2752	1.7	3.81	241	225	2396	1395						
		542		2328	1.8	3.22	250	230	2374	1436						
		622		2027	1.7	2.81	277	261	2291	1397						
		733		1717	1.9	2.38	495	479	2255	1418						
25.0	47			* 33542	* 0.8	37.09	1735	3278	4381	9000				SK 973 - 180M/4 SK 973 - 180MH/4	536	54 / 55
	56			28143	1.0	30.80	2482	3593	4831	9000						
	64			24630	1.1	27.50	2525	3746	5094	9000						
	72			21895	1.3	24.20	2558	3861	5261	9000						
	82			19222	1.3	21.37	2558	3935	5393	8917						
* service factor < 1.0																
I				= f _B 0.8 - 1.39				1) with F _A = 0 Lb				2) with F _Q = 0 Lb				
II				= f _B 1.4 - 1.99												
III				= f _B ≥ 2.0												
** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio																

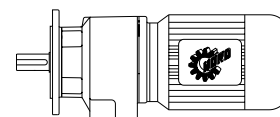
Gearmotors in Italics include an Energy Efficient Motor and have a "H" in the type

** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio.



HELICAL GEAR MOTORS

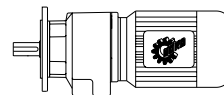
THREE PHASE



Power	Output speed **			Output torque	Service factor	Red. Ratio	Standard bearing		Radial HD bearing	Axial HD bearing	Type	Weight approx. Mounting position B3	Dimensions page					
	n ₂ [RPM]			T ₂			F _{ON} ¹⁾ OHL	F _{AN} ²⁾ Thrust	F _{Q VL} ¹⁾ OHL	F _{A AL} ²⁾ Thrust								
[HP]	AGMA			[LB-IN]	f _B	i _{total}	[LBS]	[LBS]	[LBS]	[LBS]								
	I	II	III									[LBS]						
25.0	85	96		18541	1.3	20.54	2558	3935	5432	8874	SK 973 - 180M/4 SK 973 - 180MH/4	536	54 / 55					
				16417	1.4	18.14	2547	3949	5486	8732								
		98		16080	1.4	17.77	2203	1316	4444	3728				SK 972 - 180M/4 SK 972 - 180MH/4	537	54 / 55		
		113		13948	1.5	15.46	2216	1487	5103	3899								
		126		12514	1.6	13.96	2214	1584	5506	4007								
		142		11098	1.7	12.41	2207	1681	5882	4084								
		149		10576	1.8	11.79	2178	1661	5841	4046								
		168		9381	2.0	10.47	2160	1733	6134	4084								
				194	8124	2.2	9.05	2108	1753	6118	4057							
				204	7726	2.4	8.64	2072	1733	6035	4007							
				229	6885	2.6	7.68	2039	1766	5918	4007							
				262	6018	2.9	6.75	2000	1791	5774	4007							
				151	10443	1.1	11.61	430	200	955	1935	SK 872 - 180M/4 SK 872 - 180MH/4	435				54 / 55	
					169	9328	1.3	10.34	500	273	1019							2000
					181	8708	1.3	9.64	1112	380	1634							2167
		204			7726	1.5	8.58	1422	443	1928	2212							
		232			6797	1.6	7.58	1541	594	2599	2378							
		259			6089	1.8	6.75	1508	626	2745	2394							
		276			5708	2.0	6.34	1499	653	2885	2401							
					314	5018	2.2	5.57	1487	722	3166			2453				
	356				4425	2.4	4.92	1465	776	3402	2480							
	414				3806	2.2	4.23	1382	718	3143	2345							
	463				3407	2.4	3.78	1361	754	3305	2360							
	526				3000	2.5	3.33	1337	788	3449	2372							
	596			2646	2.6	2.94	1310	812	3539	2360								
	30.0			56		* 33780	* 0.8	30.80	1679	2624	3663	8296	SK 973 - 180L/4 SK 973 - 180LH/4	558	54 / 55			
		29559				1.0	27.50	2174	2903	4183	8350							
		72				26267	1.0	24.20	2246	3119	4466	8363						
		82				23063	1.1	21.37	2300	3278	4698	8350						
		85				22249	1.1	20.54	2315	3317	4750	8309						
		96				19700	1.2	18.14	2331	3386	4896	8255						
		98				19302	1.1	17.77	1928	842	2462	3011	SK 972 - 180L/4 SK 972 - 180LH/4	559	54 / 55			
						113	16735	1.3	15.46	1985	1064	3443				3274		
						126	15010	1.4	13.96	2005	1213	4032				3440		
						142	13319	1.5	12.41	2025	1343	4583				3580		
				149		12691	1.5	11.79	1998	1343	4583	3553						
				168		11257	1.6	10.47	1998	1442	5009	3656						
				194		9753	1.8	9.05	1969	1492	5229	3674						
				204		9275	2.0	8.64	1935	1474	5159	3627						
				229		8257	2.2	7.68	1924	1539	5441	3674						
262			7222	2.4		6.75	1895	1595	5582	3697								
151		6301	2.7	5.89		1861	1636	5465	3710	SK 872 - 180L/4 SK 872 - 180LH/4	457	54 / 55						
		325	5823	2.8		5.42	1782	1537	5270				3546					
		366	5168	2.9		4.82	1757	1564	5166				3546					
		418	4522	3.0		4.23	1715	1584	5047				3519					
	169	11195	1.0	10.34	557	177	1247	1456										
	181	10452	1.1	9.64	682	220	1301	1676										
	204	9275	1.2	8.58	68	23	538	1764										
	232	8151	1.3	7.58	981	340	1463	1994										
	259	7301	1.5	6.75	1226	392	1710	2036										
	276	6850	1.7	6.34	1370	434	1877	2061										
314	6027	1.8	5.57	1373	527	2306	2149											
* service factor < 1.0																		
I			= f _B 0.8 - 1.39	1) with F _A = 0 Lb				2) with F _O = 0 Lb										
	II		= f _B 1.4 - 1.99															
		III	= f _B ≥2.0	** Output speeds may be slightly different than shown. For precise speed calculate with the motor speed and the ratio														



EXPLANATORY NOTES



SHAFT / FLANGE TOLERANCES GEARED MOTORS AND GEARBOXES

All tolerances and dimensions are subject to change.

OUTPUT AND INPUT SHAFT ENDS

Diameter tolerance :

Diameter to 1.750 inch
+ .0000
- .0005

Diameter over 1.750 inch
+ .0000
- .0010

FLANGES

Diameter tolerance of flange pilot (AK):

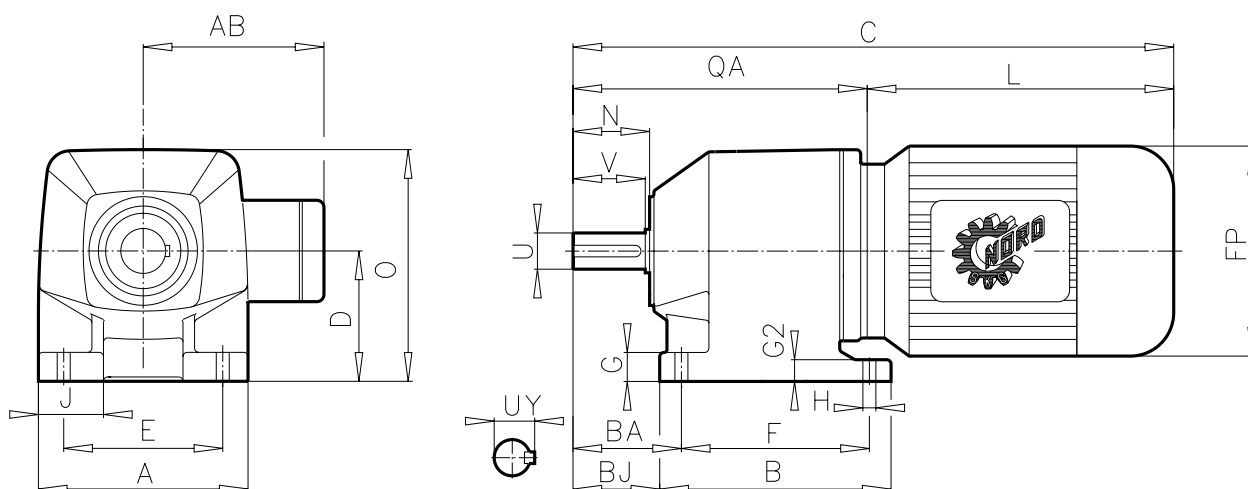
Diameter to 9.0551 inch
+ .0010
- .0010

Diameter over 9.0551 inch
+ .0000
- .0020

HELICAL GEAR MOTORS



DOUBLE AND TRIPLE REDUCTION



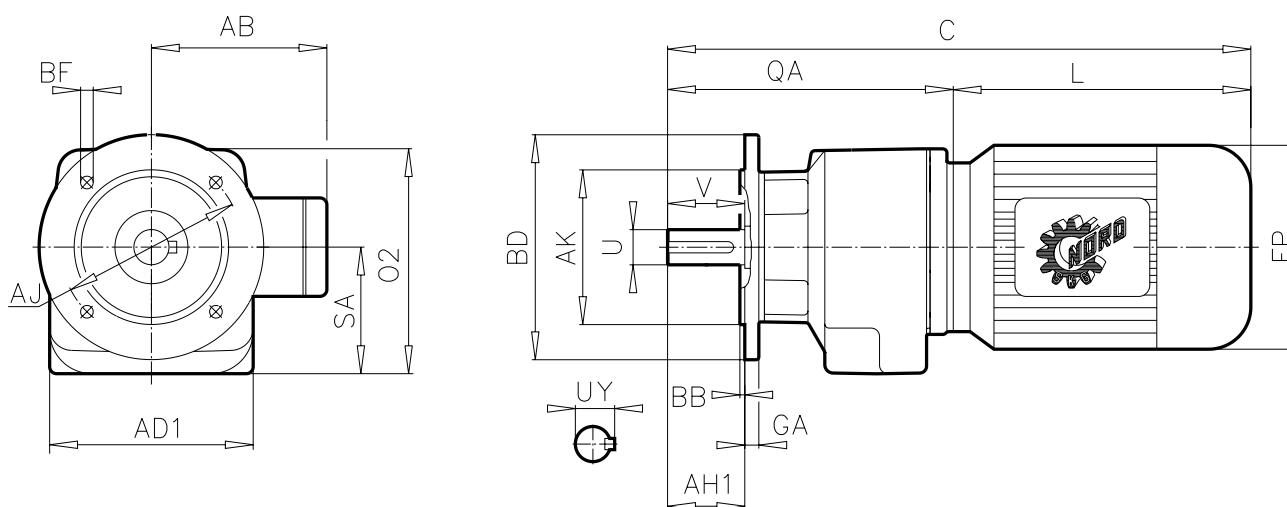
Type	Mounting dimensions (foot)				Outline dimensions										Shaft dimensions		
	A	E	G	H	AB	BA	BJ	C	D	FP	L	N	O	QA	U	UY	V
	B	F	G2	J											Key		
SK 172 - 63 S/L - 71 S/L - 80 S/L - 90 S/L	5.31	4.33	0.47	0.35	4.33			14.41		5.12	7.56				0.750	0.83	1.57
					4.69	2.28	1.79	15.24	2.95	5.71	8.39	1.65	5.51	6.85			
	5.45	4.33	0.39	0.98	5.51			15.94		6.50	9.09						
					5.71			17.72		7.28	10.87				3/16 * 3/16 * 1		
SK 272 - 63 S/L - 71 S/L - 80 S/L - 90 S/L - 100 L	5.71	4.33	0.79	0.35	4.33			15.73		5.12	7.56			8.17	1.000	1.11	1.97
					4.69			16.56		5.71	8.39						
					5.51	2.95	2.36	17.26	3.54	6.50	9.09	2.09	6.30				
	6.30	5.12	0.59	1.77	5.71			19.63		7.28	10.87			8.76	1/4 * 1/4 * 1-1/4		
SK 273 - 63 S/L - 71 S/L - 80 S/L	5.71	4.33	0.71	0.35	4.33	2.95	2.52	15.75	3.54	5.12	7.56	2.09	6.10	8.19	1.000	1.11	1.97
					4.69			16.58		5.71	8.39						
					5.51			17.28		6.50	9.09				1/4 * 1/4 * 1-1/4		
SK 372 - 63 S/L - 71 S/L - 80 S/L - 90 S/L - 100 L	5.71	4.33	0.79	0.35	4.33			15.73		5.12	7.56			8.17	1.000	1.11	1.97
					4.69			16.56		5.71	8.39						
					5.51	2.95	2.36	17.26	3.54	6.50	9.09	2.09	6.30				
	6.30	5.12	0.59	1.77	5.71			19.63		7.28	10.87			8.76	1/4 * 1/4 * 1-1/4		
SK 373 - 63 S/L - 71 S/L - 80 S/L - 90 S/L - 100 L	5.83	4.33	0.79	0.35	4.33			15.73		5.12	7.56			8.17	1.000	1.11	1.97
					4.69			16.56		5.71	8.39						
					5.51	2.95	2.36	17.26	3.54	6.50	9.09	2.09	6.30				
	6.30	5.12	0.59	1.77	5.71			19.63		7.28	10.87			8.76	1/4 * 1/4 * 1-1/4		
SK 472 - 63 S/L - 71 S/L - 80 S/L - 90 S/L - 100 L - 112 M - 132 S/M	7.48	5.31	0.98	0.53	4.33			17.23		5.12	7.56			9.67	1.250	1.36	2.36
					4.69			18.06		5.71	8.39						
					5.51	3.54	2.85	18.76	4.53	6.50	9.09	2.52	8.27				
	7.87	6.50	0.79	2.36	5.71			21.09		7.28	10.87			10.22	1/4 * 1/4 * 1-5/8		
SK 473 - 63 S/L - 71 S/L - 80 S/L - 90 S/L - 100 L					6.06			22.23		7.99	12.01			10.53			
					6.54			25.36		8.98	12.83						
					7.64			26.71		10.47	16.18						
	7.48	5.31	0.98	0.53	4.33			17.23		5.12	7.56			9.67	1.250	1.36	2.36
SK 473 - 63 S/L - 71 S/L - 80 S/L - 90 S/L - 100 L					4.69	3.54	2.85	18.06	4.53	5.71	8.39	2.52	7.87				
					5.51			18.76		6.50	9.09						
	4.87	6.50	0.79	2.36	5.71			21.09		7.28	10.87			10.22	1/4 * 1/4 * 1-5/8		
					6.06			22.23		7.99	12.01						

See page 78 for metric shafts.
Technical design may be subject to change. DXF files available upon request.

HELICAL GEAR MOTORS



DOUBLE AND TRIPLE REDUCTION



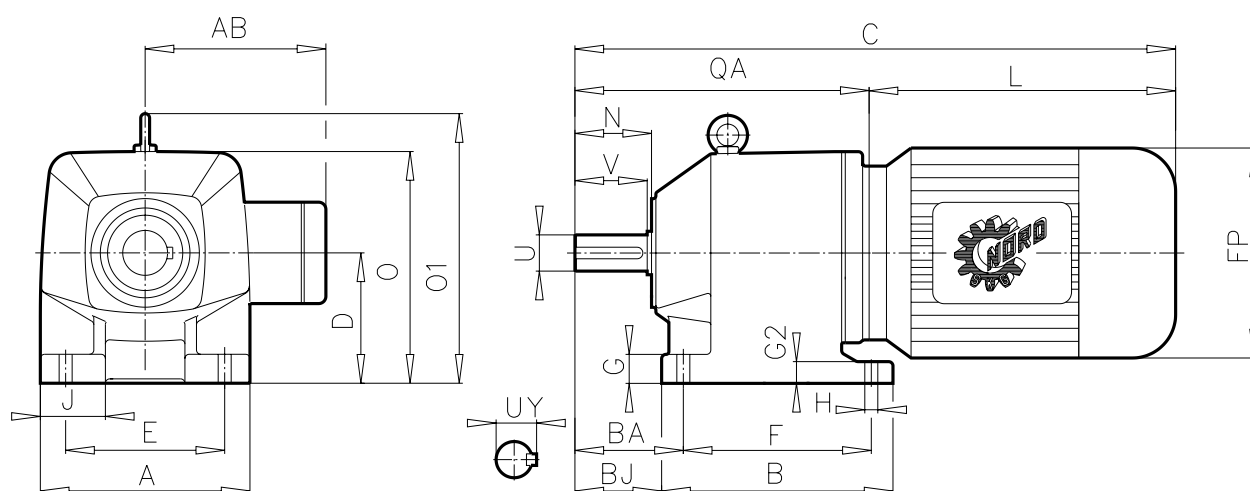
Type	Mounting dimensions (bolt-on B5 flange)						Outline dimensions									Shaft dimensions		
	AJ	AK	BB	BD	BF	GA	AB	AD1	AH1	C	FP	L	O2	QA	SA	U	UY	V
	Standard shown in bold. Must specify BD dimension.															Key		
SK 172 F - 63 S/L - 71 S/L - 80 S/L - 90 S/L	3.94	3.150	0.12	4.72	0.26	0.39	4.33			14.41	5.12	7.56				0.750	0.83	1.57
	4.53	3.740	0.12	5.51	0.35	0.39	4.69	5.31	1.57	15.24	5.71	8.39	5.59	6.85	3.03			
	5.12	4.331	0.14	6.30	0.35	0.39	5.51			15.94	6.50	9.09						
	6.5	5.118	0.14	7.87	0.43	0.47	5.71			17.72	7.28	10.87						3/16 * 3/16 * 1
SK 272 F - 63 S/L - 71 S/L - 80 S/L - 90 S/L - 100 L	3.94	3.150	0.12	4.72	0.26	0.39	4.33			15.73	5.12	7.56		8.17		1.000	1.11	1.97
	4.53	3.740	0.12	5.51	0.35	0.39	4.69			16.56	5.71	8.39						
	5.12	4.331	0.14	6.30	0.35	0.39	5.51	5.71	1.97	17.26	6.50	9.09	6.38		3.62			
	6.50	5.118	0.14	7.87	0.43	0.47	5.71			19.63	7.28	10.87		8.76				1/4 * 1/4 * 1-1/4
SK 273 F - 63 S/L - 71 S/L - 80 S/L	3.94	3.150	0.12	4.72	0.26	0.39	4.33	5.83	1.97	16.54	5.12	7.56	6.18	8.98	3.62	1.000	1.11	1.97
	4.53	3.740	0.12	5.51	0.35	0.39	4.69			17.37	5.71	8.39						
	5.12	4.331	0.14	6.30	0.35	0.39	5.51			18.07	6.50	9.09						
	6.50	5.118	0.14	7.87	0.43	0.47												1/4 * 1/4 * 1-1/4
SK 372 F - 63 S/L - 71 S/L - 80 S/L	3.94	3.150	0.12	4.72	0.26	0.39	4.33			15.73	5.12	7.56		8.17		1.000	1.11	1.97
	4.53	3.740	0.12	5.51	0.35	0.39	4.69			16.56	5.71	8.39						
	5.12	4.331	0.14	6.30	0.35	0.39	5.51	5.71	1.97	17.26	6.50	9.09	6.38		3.62			1/4 * 1/4 * 1-1/4
SK 373 F - 63 S/L - 71 S/L - 80 S/L - 90 S/L - 100 L	3.94	3.150	0.12	4.72	0.26	0.39	4.33			16.52	5.12	7.56		8.96		1.000	1.11	1.97
	4.53	3.740	0.12	5.51	0.35	0.39	4.69	5.83	1.97	17.35	5.71	8.39	6.38		3.62			
	5.12	4.331	0.14	6.30	0.35	0.39	5.51			18.05	6.50	9.09						
	6.50	5.118	0.14	7.87	0.43	0.47	5.71			20.42	7.28	10.87		9.55				1/4 * 1/4 * 1-1/4
SK 472 F - 63 S/L - 71 S/L - 80 S/L - 90 S/L - 100 L - 112 M - 132 S/M	5.12	4.331	0.14	6.30	0.35	0.39	4.33			17.23	5.12	7.56		9.67		1.250	1.36	2.36
	6.50	5.118	0.14	7.87	0.43	0.47	4.69			18.06	5.71	8.39						
	8.46	7.087	0.16	9.84	0.53	0.63	5.51	7.48	2.36	18.76	6.50	9.09	8.35		4.61			
	10.43	9.055	0.16	11.81	0.53	0.79	5.71			21.09	7.28	10.87		10.22				
SK 473 F - 63 S/L - 71 S/L - 80 S/L - 90 S/L - 100 L							6.06			22.23	7.99	12.01						
							6.54			23.36	8.98	12.83		10.53				
							7.64			26.71	10.47	16.18						1/4 * 1/4 * 1-5/8
SK 473 F - 63 S/L - 71 S/L - 80 S/L - 90 S/L - 100 L	5.12	4.331	0.14	6.30	0.35	0.39	4.33			17.86	5.12	7.56		10.30		1.250	1.36	2.36
	6.50	5.118	0.14	7.87	0.43	0.47	4.69			18.69	5.71	8.39						
	8.46	7.087	0.16	9.84	0.53	0.63	5.51	7.48	2.36	19.39	6.50	9.09	8.35		4.61			
	10.43	9.055	0.16	11.81	0.53	0.79	5.71			21.72	7.28	10.87		10.85				1/4 * 1/4 * 1-5/8
							6.06			22.86	7.99	12.01						

See page 78 for metric shafts.
Technical design may be subject to change. DXF files available upon request.

HELICAL GEAR MOTORS



DOUBLE AND TRIPLE REDUCTION



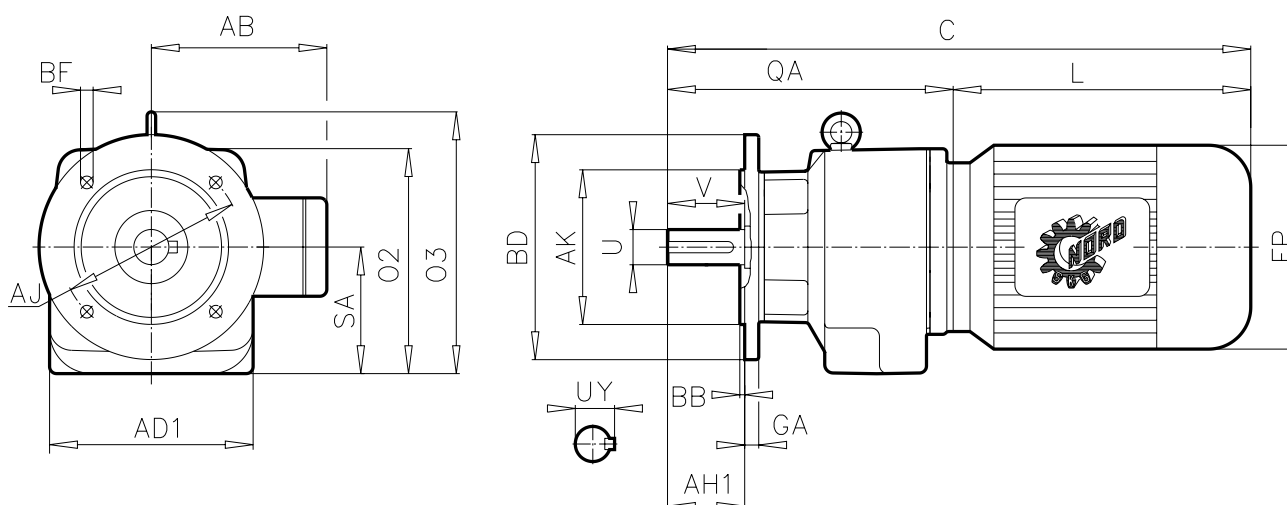
Type	Mounting dimensions (foot)				Outline dimensions											Shaft dimensions					
	A	E	G	H																	
	B	F	G2	J	AB	BA	BJ	C	D	FP	L	N	O	O1	QA	U	UY	V			
Key																					
SK 572 - 80 S/L - 90 S/L - 100 L - 112 M - 132 S/M					5.51				19.15				6.50	9.09				10.06	1.375	1.52	2.75
	7.48	5.31	0.98	0.53	5.71				21.48				7.28	10.87				10.61			
					6.06	3.94	3.25	22.62	4.53	7.99	12.01	2.91	8.27	--							
	7.87	6.50	0.79	2.36	6.54				23.76				8.98	12.83				10.93			
					7.64				27.11				10.47	16.18					5/16 * 5/16 * 2-1/8		
SK 573 - 63 S/L - 71 S/L - 80 S/L - 90 S/L - 100 L - 112 M - 132 S/M					4.33				17.62				5.12	7.56				10.06	1.375	1.52	2.75
	7.48	5.31	0.98	0.53	4.69				18.45				5.71	8.39							
					5.51	3.94	3.25	19.15	4.53	6.50	9.09	2.91	8.27	--							
	7.87	6.50	0.79	2.36	5.71				21.48				7.28	10.87				10.61			
					6.06				22.62				7.99	12.01							
					6.54				23.99				8.98	12.83				11.16			
					7.64				27.34				10.47	16.18					5/16 * 5/16 * 2-1/8		
SK 672 - 80 S/L - 90 S/L - 100 L - 112 M - 132 S/M					5.51				19.98				6.50	9.09				10.89	1.375	1.52	2.75
	8.27	5.91	1.18	0.53	5.71				22.31				7.28	10.87				11.44			
					6.06	3.94	3.15	23.45	5.12	7.99	12.01	2.91	9.13	10.43							
	9.25	7.68	0.98	2.36	6.54				24.58				8.98	12.83				11.75			
					7.64				27.93				10.47	16.18					5/16 * 5/16 * 2-1/8		
SK 673 - 63 S/L - 71 S/L - 80 S/L - 90 S/L - 100 L - 112 M - 132 S/M					4.33				18.45				5.12	7.56				10.89	1.375	1.52	2.75
	8.27	5.91	1.18	0.53	4.69				19.28				5.71	8.39							
					5.51	3.94	3.15	19.98	5.12	6.50	9.09	2.91	9.13	10.43							
	9.25	7.68	0.98	2.36	5.71				22.31				7.28	10.87				11.44			
					6.06				23.45				7.99	12.01							
					6.54				24.58				8.98	12.83				11.75			
					7.64				27.93				10.47	16.18					5/16 * 5/16 * 2-1/8		
SK 772 - 80 S/L - 90 S/L - 100 L - 112 M - 132 S/M - 160 M/L					5.51				20.72				6.50	9.09				11.63	1.625	1.79	3.15
	9.06	6.69	1.18	0.69	5.71				23.06				7.28	10.87				12.19			
					6.06	4.53	3.74	24.20	5.51	7.99	12.01	3.31	9.92	11.30							
	9.65	8.07	0.98	2.76	6.54				25.33				8.98	12.83				12.50			
					7.64				28.96				10.47	16.18				12.78			
					9.21				31.91				12.60	19.13					3/8 * 3/8 * 2-1/4		
SK 773 - 63 S/L - 71 S/L - 80 S/L - 90 S/L - 100 L - 112 M - 132 S/M					4.33				19.19				5.12	7.56				11.63	1.625	1.79	3.15
	9.06	6.69	1.18	0.69	4.69				20.02				5.71	8.39							
					5.51				20.72				6.50	9.09							
	9.65	8.07	0.98	2.76	5.71	4.53	3.74	23.06	5.51	7.28	10.87	3.31	9.92	11.30	12.19						
					6.06				24.20				7.99	12.01							
					6.54				25.33				8.98	12.83				12.50			
					7.64				28.96				10.47	16.18				12.78	3/8 * 3/8 * 2-1/4		

See page 78 for metric shafts. Technical design may be subject to change. DXF files available upon request.

HELICAL GEAR MOTORS



DOUBLE AND TRIPLE REDUCTION



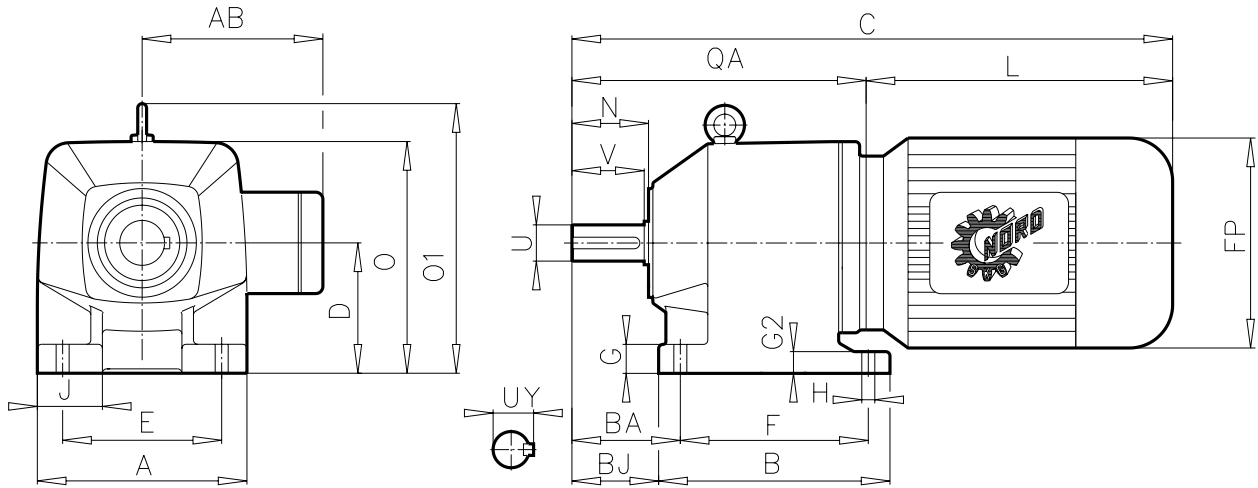
Type	Mounting dimensions (bolt-on B5 flange)						Outline dimensions										Shaft dimensions		
	AJ	AK	BB	BD	BF	GA	AB	AD1	AH1	C	FP	L	O2	O3	QA	SA	U	UY	V
Standard shown in bold. Must specify BD dimension.																			
SK 572 F	- 80 S/L	5.12	4.331	0.14	6.30	0.35	0.39	5.51			19.14	6.50	9.09		10.05		1.375	1.52	2.75
	- 90 S/L	6.50	5.118	0.14	7.87	0.43	0.47	5.71			21.47	7.28	10.87		10.60				
	- 100 L	8.46	7.087	0.16	9.84	0.53	0.63	6.06	7.48	2.76	22.61	7.99	12.01	8.35	--	4.61			
	- 112 M	10.43	9.055	0.16	11.81	0.53	0.79	6.54			23.75	8.98	12.83		10.92				
	- 132 S/M							7.64			27.10	10.47	16.18				5/16 * 5/16 * 2-1/8		
SK 573 F	- 63 S/L	5.12	4.331	0.14	6.30	0.35	0.39	4.33			18.25	5.12	7.56		10.69		1.375	1.52	2.75
	- 71 S/L	6.50	5.118	0.14	7.87	0.43	0.47	4.69			19.08	5.71	8.39						
	- 80 S/L	8.46	7.087	0.16	9.84	0.53	0.63	5.51	7.48	2.76	19.78	6.50	9.09	8.35	--	4.61			
	- 90 S/L	10.43	9.055	0.16	11.81	0.53	0.79	5.71			22.00	7.28	10.87		11.23				
	- 100 L							6.06			23.24	7.99	12.01				5/16 * 5/16 * 2-1/8		
SK 672 F	- 80 S/L	6.50	5.118	0.14	7.87	0.43	0.47	5.51			19.97	6.50	9.09		10.88		1.375	1.52	2.75
	- 90 S/L	8.46	7.087	0.16	9.84	0.53	0.63	5.71	8.27	2.76	22.30	7.28	10.87	9.13	10.43	11.43	5.28		
	- 100 L	10.43	9.055	0.16	11.81	0.53	0.79	6.06			23.44	7.99	12.01						
	- 112 M							6.54			24.58	8.98	12.83		11.75				
	- 132 S/M							7.64			27.74	10.47	16.18				5/16 * 5/16 * 2-1/8		
SK 673 F	- 63 S/L	6.50	5.118	0.14	7.87	0.43	0.47	4.33			19.39	5.12	7.56		11.83		1.375	1.52	2.75
	- 71 S/L	8.46	7.087	0.16	9.84	0.53	0.63	4.69			20.22	5.71	8.39						
	- 80 S/L	10.43	9.055	0.16	11.81	0.53	0.79	5.51	8.27	2.76	20.92	6.50	9.09	9.13	10.43	5.28			
	- 90 S/L							5.71			23.25	7.28	10.87		12.38				
	- 100 L							6.06			24.39	7.99	12.01				5/16 * 5/16 * 2-1/8		
SK 772 F	- 80 S/L	6.50	5.118	0.14	7.87	0.43	0.47	5.51			20.72	6.50	9.09		11.63		1.625	1.79	3.15
	- 90 S/L	8.46	7.087	0.16	9.84	0.53	0.63	5.71			23.06	7.28	10.87		12.19				
	- 100 L	10.43	9.055	0.16	11.81	0.53	0.79	6.06	9.06	3.15	24.20	7.99	12.01	9.92	11.30	5.51			
	- 112 M							6.54			25.33	8.98	12.83		12.50				
	- 132 S/M							7.64			28.96	10.47	16.18		12.78		3/8 * 3/8 * 2-1/4		
SK 773 F	- 80 S/L							9.21			31.91	12.60	19.13						
	- 63 S/L	6.50	5.118	0.14	7.87	0.43	0.47	4.33			19.82	5.12	7.56		12.26		1.625	1.79	3.15
	- 71 S/L	8.46	7.087	0.16	9.84	0.53	0.63	4.69			20.65	5.71	8.39						
	- 80 S/L	10.43	9.055	0.16	11.81	0.53	0.79	5.51			21.35	6.50	9.09						
	- 90 S/L							5.71	9.06	3.15	23.69	7.28	10.87	9.92	11.30	12.82	5.51		
SK 773 F	- 100 L							6.06			24.83	7.99	12.01						
	- 112 M							6.54			25.96	8.98	12.83		13.13				
	- 132 S/M							7.64			29.59	10.47	16.18		13.41		3/8 * 3/8 * 2-1/4		

See page 78 for metric shafts. Technical design may be subject to change. DXF files available upon request.

HELICAL GEAR MOTORS



DOUBLE AND TRIPLE REDUCTION



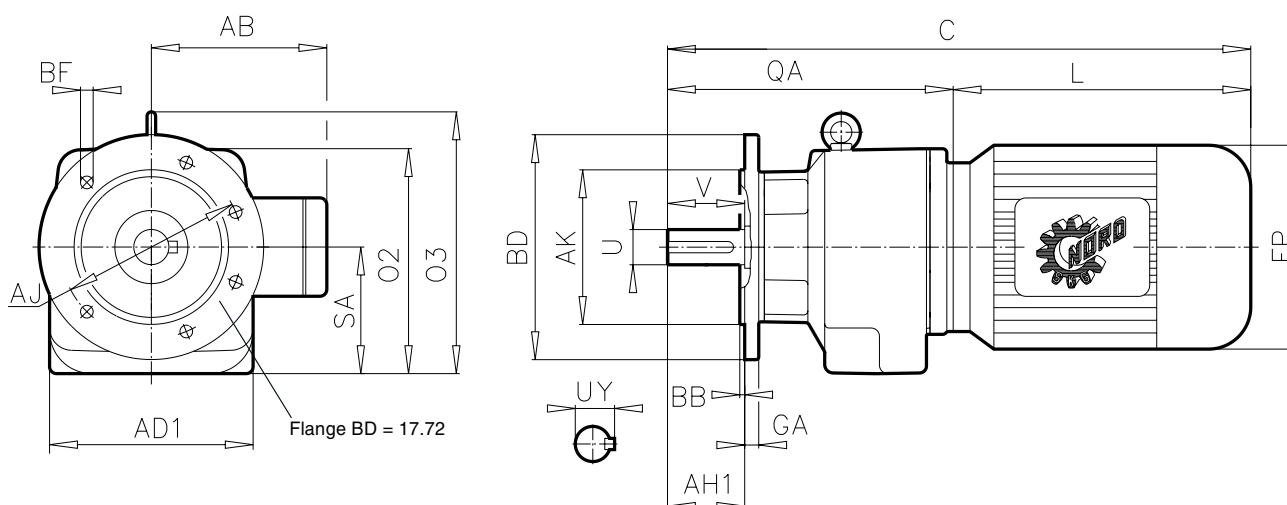
Type	Mounting dimensions (foot)				Outline dimensions												Shaft dimensions		
	A	E	G	H	AB	BA	BJ	C	D	FP	L	N	O	O1	QA	U	UY	V	
	B	F	G2	J															
Key																			
SK 872 - 90 S/L - 100 L - 112 M - 132 S/M - 160 M/L - 180 M/L	11.42	8.46	1.77	0.69	5.71			25.63		7.28	10.87				14.76	2.125	2.35	3.94	
					6.06			26.77		7.99	12.01								
					6.54	5.51	4.53	27.59	7.09	8.98	12.83	4.13	12.76	14.41	15.04				
	12.20	10.24	1.57	3.54	7.64			31.46		10.47	16.18				15.28				
					9.21			34.41		12.60	19.13								
				10.20			38.98		14.09	23.70				15.28	1/2 * 1/2 * 2-5/8				
SK 873 - 90 S/L - 100 L - 112 M - 132 S/M - 160 M/L	11.42	8.46	1.77	0.69	5.71			25.63		7.28	10.87				14.76	2.125	2.35	3.94	
					6.06			26.77		7.99	12.01								
					6.54	5.51	4.53	27.87	7.09	8.98	12.83	4.13	12.76	14.41	15.04				
	12.20	10.24	1.57	3.54	7.64			31.46		10.47	16.18				15.28				
					9.21			34.41		12.60	19.13								
1/2 * 1/2 * 2-5/8																			
SK 972 - 90 S/L - 100 L - 112 M - 132 S/M - 160 M/L - 180 M/L - 200 L - 225 S	13.39	9.84	2.17	0.87	5.71			27.74		7.28	10.87				16.87	2.375	2.65	4.72	
					6.06			28.88		7.99	12.01								
					6.54			29.70		8.98	12.83								
	14.37	12.20	1.97	3.94	7.64	6.30	5.22	33.29	8.86	10.47	16.18	4.96	15.67	17.68	17.11				
					9.21			36.24		12.60	19.13								
	10.20				12.05			40.81		14.09	23.70				17.11				
					12.05			44.20		15.67	27.09								
				44.20		15.67	27.09								5/8 * 5/8 * 3-1/4				
SK 973 - 90 S/L - 100 L - 112 M - 132 S/M - 160 M/L - 180 M/L	13.39	9.84	2.17	0.87	5.71			27.74		7.28	10.87				16.87	2.375	2.65	4.72	
					6.06			28.88		7.99	12.01								
					6.54			29.70		8.98	12.83								
	14.37	12.20	1.97	3.94	7.64	6.30	5.22	33.29	8.86	10.47	16.18	4.96	15.67	17.68	17.11				
					9.21			36.24		12.60	19.13								
				10.20			40.81		14.09	23.70				17.11	5/8 * 5/8 * 3-1/4				

See page 78 for metric shafts
Technical design may be subject to change. DXF files available upon request.

HELICAL GEAR MOTORS



DOUBLE AND TRIPLE REDUCTION



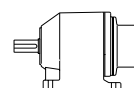
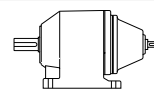
Type	Mounting dimensions (bolt-on B5 flange)						Outline dimensions										Shaft dimensions		
	AJ	AK	BB	BD	BF	GA	AB	AD1	AH1	C	FP	L	O2	O3	QA	SA	U	UY	V
Standard shown in bold. Must specify BD dimension.																			
																	Key		
SK 872 F - 90 S/L - 100 L - 112 M - 132 S/M - 160 M/L - 180 M/L	8.46	7.087	0.16	9.84	0.53	0.63	5.71			25.63	7.28	10.87			14.76		2.125	2.35	3.94
	10.43	9.055	0.16	11.81	0.53	0.79	6.06			26.77	7.99	12.01							
	11.81	9.843	0.20	13.78	0.69	0.79	6.54	11.42	3.94	27.59	8.98	12.83	12.76	14.41	15.04	7.09			
							7.64			31.46	10.47	16.18			15.28				
							9.21			34.41	12.60	19.13							
							10.20			38.98	14.09	23.70			15.28		1/2 * 1/2 * 2-5/8		
SK 873 F - 90 S/L - 100 L - 112 M - 132 S/M - 160 M/L	8.46	7.087	0.16	9.84	0.53	0.63	5.71			25.99	7.28	10.87			15.12		2.125	2.35	3.94
	10.43	9.055	0.16	11.81	0.53	0.79	6.06			27.13	7.99	12.01							
	11.81	9.843	0.20	13.78	0.69	0.79	6.54	11.42	3.94	27.95	8.98	12.83	12.76	14.41	15.04	7.09			
							7.64			31.81	10.47	16.18			15.63				
							9.21			34.76	12.60	19.13							
							10.20			37.98	14.09	23.70			15.28		1/2 * 1/2 * 2-5/8		
SK 972 F - 90 S/L - 100 L - 112 M - 132 S/M - 160 M/L - 180 M/L - 200 L - 225 S	10.43	9.055	0.16	11.81	0.53	0.79	5.71			27.74	7.28	10.87			16.87		2.375	2.65	4.72
	11.81	9.843	0.20	13.78	0.69	0.79	6.06			28.88	7.99	12.01							
	15.75	13.780	0.20	17.72	0.69	0.87	6.54			29.70	8.98	12.83							
							7.64	13.39	4.72	33.29	10.47	16.18	15.67	17.68	17.11	8.86			
							9.21			36.24	12.60	19.13							
							10.20			40.81	14.09	23.70			17.11				
SK 973 F - 90 S/L - 100 L - 112 M - 132 S/M - 160 M/L - 180 M/L	10.43	9.055	0.16	11.81	0.53	0.79	5.71			28.25	7.28	10.87			17.38		2.375	2.65	4.72
	11.81	9.843	0.20	13.78	0.69	0.79	6.06			29.39	7.99	12.01							
	15.75	13.780	0.20	17.72	0.69	0.87	6.54	13.39	4.72	30.21	8.98	12.83	15.67	17.68		8.86			
							7.64			33.80	10.47	16.18			17.62				
							9.21			36.75	12.60	19.13							
							10.20			41.32	14.09	23.70			17.62		5/8 * 5/8 * 3-1/4		

See page 78 for metric shafts
Technical design may be subject to change. DXF files available upon request.



HELICAL SPEED REDUCER

TABLE OF CAPACITY AND RATIO
WITH SOLID INPUT SHAFT, TYPE W,
OR FOR ASSEMBLY WITH NEMA MOTORS



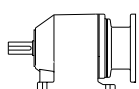
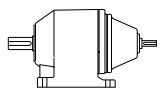
Size	Reduction ratio i_{total}	Output speed 4-pol./ 60 Hz n_2 [RPM]	$T_{2 max}$ 4 - pol. [LB-IN]	max input power, Type W at $f_B \geq 1$				Available NEMA adapters *							
				4 - pol. [HP] *	6 - pol. [HP] *	8 - pol. [HP] *	12 - pol. [HP] *								
SK 172	79.56	20.00	620	0.20	0.13	0.10	0.06	56	-	-	-	-	-	-	-
	58.96	28.00	752	0.33	0.22	0.17	0.11	56	140	-	-	-	-	-	-
	48.32	34.00	752	0.41	0.27	0.20	0.13	56	140	-	-	-	-	-	-
	45.40	36.00	752	0.43	0.28	0.21	0.14	56	-	-	-	-	-	-	-
	37.21	44.00	779	0.54	0.36	0.27	0.18	56	-	-	-	-	-	-	-
	30.58	53.00	761	0.64	0.42	0.32	0.21	56	-	-	-	-	-	-	-
W	29.10	56.00	779	0.69	0.46	0.35	0.23	56	140	-	-	-	-	-	-
	27.61	60.00	752	0.72	0.47	0.36	0.24	56	-	-	-	-	-	-	-
+	23.91	70.00	797	0.88	0.58	0.44	0.29	56	140	-	-	-	-	-	-
	21.59	77.00	770	0.94	0.62	0.47	0.31	56	140	-	-	-	-	-	-
NEMA	17.87	92.00	752	1.10	0.72	0.55	0.36	56	140	-	-	-	-	-	-
	17.17	96.00	752	1.15	0.76	0.57	0.38	56	140	-	-	-	-	-	-
	14.84	113.00	752	1.35	0.89	0.67	0.44	56	140	-	-	-	-	-	-
	12.98	128.00	752	1.53	1.01	0.76	0.50	56	140	-	-	-	-	-	-
	12.16	137.00	752	1.63	1.08	0.82	0.54	56	140	-	-	-	-	-	-
	11.41	146.00	717	1.66	1.10	0.83	0.55	56	140	-	-	-	-	-	-
	10.07	166.00	681	1.79	1.18	0.90	0.59	56	140	-	-	-	-	-	-
	9.35	178.00	664	1.87	1.24	0.94	0.62	56	140	-	-	-	-	-	-
	8.25	202.00	637	2.00	1.32	1.00	0.66	56	140	-	-	-	-	-	-
	7.68	216.00	549	1.88	1.24	0.94	0.62	56	140	-	-	-	-	-	-
	6.94	240.00	540	2.00	1.32	1.00	0.66	56	140	-	-	-	-	-	-
	6.34	262.00	513	2.00	1.32	1.00	0.66	56	140	-	-	-	-	-	-
	5.74	289.00	504	2.00	1.32	1.00	0.66	56	140	-	-	-	-	-	-
	5.21	319.00	496	2.00	1.32	1.00	0.66	56	140	-	-	-	-	-	-
	4.71	353.00	487	2.00	1.32	1.00	0.66	56	140	-	-	-	-	-	-
	4.07	408.00	469	2.00	1.32	1.00	0.66	56	140	-	-	-	-	-	-
	3.90	426.00	443	2.00	1.32	1.00	0.66	56	140	-	-	-	-	-	-
	3.37	493.00	425	2.00	1.32	1.00	0.66	56	140	-	-	-	-	-	-
	3.03	548.00	416	2.00	1.32	1.00	0.66	56	140	-	-	-	-	-	-
	2.62	635.00	416	2.00	1.32	1.00	0.66	56	140	-	-	-	-	-	-
	2.23	745.00	416	2.00	1.32	1.00	0.66	56	140	-	-	-	-	-	-
	1.93	862.00	363	2.00	1.32	1.00	0.66	56	140	-	-	-	-	-	-

Example

143 TC and 145 TC motors
bolt up to 140 adapter

* max. Input power is limited by the standard NEMA frame power assignments.
For combination with servomotors or other high torque motors please contact NORD.

For permissible Overhung- and Thrust loads on the output shaft see corresponding tables in the Gear Motor section.
For permissible loads applied on the input shaft of Gearboxes (Type W) please see page 8.
See page 6 for additional selection criteria.



HELICAL SPEED REDUCER



TABLE OF CAPACITY AND RATIO
WITH SOLID INPUT SHAFT, TYPE W,
OR FOR ASSEMBLY WITH NEMA MOTORS

Size	Reduction ratio i_{total}	Output speed 4-pol./ 60 Hz n_2 [RPM]	$T_{2 max}$ 4 - pol. [LB-IN]	max input power, Type W at $f_b \geq 1$				Available NEMA adapters *							
				4 - pol. [HP] *	6 - pol. [HP] *	8 - pol. [HP] *	12 - pol. [HP] *								
SK 273	330.90	4.80	1239	0.09	0.06	0.05	0.03	56	-	-	-	-	-	-	-
	245.21	6.50	1239	0.13	0.08	0.06	0.04	56	140	-	-	-	-	-	-
	188.81	8.50	1239	0.17	0.11	0.08	0.06	56	-	-	-	-	-	-	-
	165.97	9.60	1239	0.19	0.12	0.09	0.06	56	140	-	-	-	-	-	-
	127.79	12.00	1239	0.24	0.16	0.12	0.08	56	-	-	-	-	-	-	-
	107.65	14.00	1239	0.28	0.18	0.14	0.09	56	140	-	-	-	-	-	-
	82.89	20.00	1239	0.39	0.26	0.20	0.13	56	-	-	-	-	-	-	-
	71.41	23.00	1239	0.45	0.30	0.23	0.15	56	140	-	-	-	-	-	-
	61.73	26.00	1239	0.51	0.34	0.26	0.17	56	140	-	-	-	-	-	-
	53.98	30.00	1239	0.59	0.39	0.29	0.19	56	140	-	-	-	-	-	-
	47.44	35.00	1239	0.69	0.45	0.34	0.23	56	140	-	-	-	-	-	-
	41.78	40.00	1239	0.79	0.52	0.39	0.26	56	140	-	-	-	-	-	-
	36.54	46.00	1239	0.90	0.60	0.45	0.30	56	140	-	-	-	-	-	-
	32.11	52.00	1239	1.02	0.67	0.51	0.34	56	140	-	-	-	-	-	-
	28.34	59.00	1239	1.16	0.77	0.58	0.38	56	140	-	-	-	-	-	-
	27.10	61.00	1239	1.20	0.79	0.60	0.40	56	140	-	-	-	-	-	-
	23.70	71.00	1239	1.40	0.92	0.70	0.46	56	140	-	-	-	-	-	-
	20.83	80.00	1239	1.57	1.04	0.79	0.52	56	140	-	-	-	-	-	-
SK 272	64.75	25.00	1151	0.46	0.30	0.23	0.15	56	140	-	-	-	-	-	-
	57.38	29.00	1151	0.53	0.35	0.26	0.17	56	140	-	-	-	-	-	-
	51.23	32.00	1239	0.63	0.42	0.31	0.21	56	-	-	-	-	-	-	-
	45.40	37.00	1239	0.73	0.48	0.36	0.24	56	-	-	-	-	-	-	-
	39.78	42.00	1239	0.83	0.54	0.41	0.27	56	140	-	-	-	-	-	-
	35.26	47.00	1239	0.92	0.61	0.46	0.30	56	140	-	-	-	-	-	-
	31.17	53.00	1239	1.04	0.69	0.52	0.34	56	140	-	-	-	-	-	-
	28.59	59.00	1239	1.16	0.77	0.58	0.38	56	140	-	-	-	-	-	-
	25.28	67.00	1239	1.32	0.87	0.66	0.43	56	140	-	-	-	-	-	-
	20.96	80.00	1239	1.57	1.04	0.79	0.52	56	140	-	-	-	-	-	-
	20.06	84.00	1239	1.65	1.09	0.83	0.54	56	140	-	-	-	-	-	-
	18.59	91.00	1239	1.79	1.18	0.89	0.59	56	140	-	-	-	-	-	-
	17.17	98.00	1239	1.93	1.27	0.96	0.64	56	140	-	-	-	-	-	-
	15.10	112.00	1239	2.20	1.45	1.10	0.73	56	140	-	-	-	-	-	-
	13.41	127.00	1239	2.50	1.65	1.25	0.82	56	140 180	-	-	-	-	-	-
	11.88	143.00	1239	2.81	1.85	1.41	0.93	56	140 180	-	-	-	-	-	-
	11.17	152.00	1239	2.99	1.97	1.49	0.99	56	140 180	-	-	-	-	-	-
	9.90	172.00	1239	3.38	2.23	1.69	1.12	56	140 180	-	-	-	-	-	-
	8.65	196.00	1239	3.85	2.54	1.93	1.27	56	140 180	-	-	-	-	-	-
	7.64	222.00	1239	4.36	2.88	2.18	1.44	56	140 180	-	-	-	-	-	-
	6.75	251.00	1239	4.93	3.26	2.47	1.63	56	140 180	-	-	-	-	-	-
	6.34	266.00	1239	5.00	3.30	2.50	1.65	56	140 180	-	-	-	-	-	-
	5.62	301.00	1239	5.00	3.30	2.50	1.65	56	140 180	-	-	-	-	-	-
	4.96	341.00	1239	5.00	3.30	2.50	1.65	56	140 180	-	-	-	-	-	-
	4.57	371.00	1221	5.00	3.30	2.50	1.65	56	140 180	-	-	-	-	-	-
	4.05	418.00	1177	5.00	3.30	2.50	1.65	56	140 180	-	-	-	-	-	-
	3.52	481.00	1151	5.00	3.30	2.50	1.65	56	140 180	-	-	-	-	-	-
	3.19	530.00	1151	5.00	3.30	2.50	1.65	56	140 180	-	-	-	-	-	-
	2.77	611.00	1106	5.00	3.30	2.50	1.65	56	140 180	-	-	-	-	-	-
	2.17	780.00	885	5.00	3.30	2.50	1.65	56	140 180	-	-	-	-	-	-
	1.88	900.00	832	5.00	3.30	2.50	1.65	56	140 180	-	-	-	-	-	-

Example
143 TC and 145 TC motors
bolt up to 140 adapter

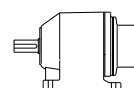
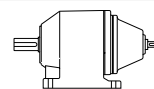
* max. Input power is limited by the standard NEMA frame power assignments.
For combination with servomotors or other high torque motors please contact NORD.

For permissible Overhung- and Thrust loads on the output shaft see corresponding tables in the Gear Motor section.
For permissible loads applied on the input shaft of Gearboxes (Type W) please see page 8.
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HELICAL SPEED REDUCER

TABLE OF CAPACITY AND RATIO
WITH SOLID INPUT SHAFT, TYPE W,
OR FOR ASSEMBLY WITH NEMA MOTORS

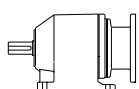
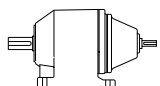


Size	Reduction ratio i_{total}	Output speed 4-pol./ 60 Hz n_2 [RPM]	T_2 max 4 - pol. [LB-IN]	max input power, Type W at $f_B \geq 1$				Available NEMA adapters *							
				4 - pol. [HP] *	6 - pol. [HP] *	8 - pol. [HP] *	12 - pol. [HP] *								
SK 373	238.68	6.70	1947	0.21	0.14	0.10	0.07	56	140	-	-	-	-	-	-
	188.86	8.40	1947	0.26	0.17	0.13	0.09	56	-	-	-	-	-	-	-
	161.01	10.00	1947	0.31	0.20	0.15	0.10	56	140	-	-	-	-	-	-
	127.40	13.00	1947	0.40	0.26	0.20	0.13	56	-	-	-	-	-	-	-
	98.94	17.00	1947	0.52	0.35	0.26	0.17	56	140	-	-	-	-	-	-
	85.47	19.00	1947	0.59	0.39	0.29	0.19	56	-	-	-	-	-	-	-
	73.94	23.00	1947	0.71	0.47	0.36	0.23	56	140	-	-	-	-	-	-
	66.38	25.00	1947	0.77	0.51	0.39	0.25	56	140	-	-	-	-	-	-
	63.29	26.00	1947	0.80	0.53	0.40	0.26	56	140	-	-	-	-	-	-
	55.65	30.00	1947	0.93	0.61	0.46	0.31	56	140	-	-	-	-	-	-
	49.42	34.00	1947	1.05	0.69	0.52	0.35	56	140	180	-	-	-	-	-
	42.69	38.00	1947	1.17	0.77	0.59	0.39	56	140	-	-	-	-	-	-
	37.54	44.00	1947	1.36	0.90	0.68	0.45	56	140	-	-	-	-	-	-
	33.34	50.00	1947	1.54	1.02	0.77	0.51	56	140	180	-	-	-	-	-
	27.78	60.00	1947	1.85	1.22	0.93	0.61	56	140	180	-	-	-	-	-
	24.26	68.00	1947	2.10	1.39	1.05	0.69	56	140	180	-	-	-	-	-
	22.37	74.00	1859	2.18	1.44	1.09	0.72	56	140	180	-	-	-	-	-
	16.28	104.00	1770	2.92	1.93	1.46	0.96	56	140	180	-	-	-	-	-
SK 372	51.23	32.00	1549	0.79	0.52	0.39	0.26	56	-	-	-	-	-	-	-
	45.40	37.00	1372	0.80	0.53	0.40	0.27	56	-	-	-	-	-	-	-
	39.78	42.00	1770	1.18	0.78	0.59	0.39	56	140	-	-	-	-	-	-
	35.26	47.00	1770	1.32	0.87	0.66	0.44	56	140	-	-	-	-	-	-
	31.17	53.00	1770	1.49	0.98	0.74	0.49	56	140	-	-	-	-	-	-
	28.59	59.00	1770	1.66	1.09	0.83	0.55	56	140	-	-	-	-	-	-
	25.28	67.00	1770	1.88	1.24	0.94	0.62	56	140	-	-	-	-	-	-
	20.96	80.00	1770	2.25	1.48	1.12	0.74	56	140	-	-	-	-	-	-
	20.06	84.00	1770	2.36	1.56	1.18	0.78	56	140	-	-	-	-	-	-
	18.59	91.00	1770	2.55	1.69	1.28	0.84	56	140	-	-	-	-	-	-
	17.17	98.00	1770	2.75	1.82	1.38	0.91	56	140	-	-	-	-	-	-
	15.10	112.00	1770	3.14	2.08	1.57	1.04	56	140	-	-	-	-	-	-
	13.41	127.00	1682	3.39	2.24	1.69	1.12	56	140	180	-	-	-	-	-
	11.88	143.00	1637	3.71	2.45	1.86	1.23	56	140	180	-	-	-	-	-
	11.17	152.00	1505	3.63	2.39	1.81	1.20	56	140	180	-	-	-	-	-
	9.90	172.00	1505	4.10	2.71	2.05	1.35	56	140	180	-	-	-	-	-
	8.65	196.00	1505	4.68	3.09	2.34	1.54	56	140	180	-	-	-	-	-
	7.64	222.00	1416	4.99	3.29	2.49	1.65	56	140	180	-	-	-	-	-
	6.75	251.00	1283	5.00	3.30	2.50	1.65	56	140	180	-	-	-	-	-
	6.34	266.00	1257	5.00	3.30	2.50	1.65	56	140	180	-	-	-	-	-
	5.62	301.00	1266	5.00	3.30	2.50	1.65	56	140	180	-	-	-	-	-
	4.96	341.00	1239	5.00	3.30	2.50	1.65	56	140	180	-	-	-	-	-
	4.57	371.00	1221	5.00	3.30	2.50	1.65	56	140	180	-	-	-	-	-
	4.05	418.00	1177	5.00	3.30	2.50	1.65	56	140	180	-	-	-	-	-
	3.52	481.00	1151	5.00	3.30	2.50	1.65	56	140	180	-	-	-	-	-
	3.19	530.00	1151	5.00	3.30	2.50	1.65	56	140	180	-	-	-	-	-
	2.77	611.00	1106	5.00	3.30	2.50	1.65	56	140	180	-	-	-	-	-
	2.17	780.00	885	5.00	3.30	2.50	1.65	56	140	180	-	-	-	-	-
	1.88	900.00	832	5.00	3.30	2.50	1.65	56	140	180	-	-	-	-	-

Example
143 TC and 145 TC motors
bolt up to 140 adapter

* max. Input power is limited by the standard NEMA frame power assignments.
For combination with servomotors or other high torque motors please contact NORD.

For permissible Overhung- and Thrust loads on the output shaft see corresponding tables in the Gear Motor section.
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HELICAL SPEED REDUCER

TABLE OF CAPACITY AND RATIO
WITH SOLID INPUT SHAFT, TYPE W,
OR FOR ASSEMBLY WITH NEMA MOTORS



Size	Reduction ratio i_{total}	Output speed 4-pol./ 60 Hz n_2 [RPM]	$T_{2 max}$ 4 - pol. [LB-IN]	max input power, Type W at $i_B \geq 1$				Available NEMA adapters *							
				4 - pol. [HP] *	6 - pol. [HP] *	8 - pol. [HP] *	12 - pol. [HP] *								
SK 473	309.58	5.30	2832	0.24	0.16	0.12	0.08	56	140	-	-	-	-	-	-
	244.95	6.70	2832	0.30	0.20	0.15	0.10	56	-	-	-	-	-	-	-
	218.59	7.40	2832	0.33	0.22	0.17	0.11	56	140	-	-	-	-	-	-
	192.51	8.50	2832	0.38	0.25	0.19	0.13	56	140	-	-	-	-	-	-
	172.96	9.50	2832	0.43	0.28	0.21	0.14	56	-	-	-	-	-	-	-
	152.33	11.00	2832	0.49	0.33	0.25	0.16	56	-	-	-	-	-	-	-
	134.32	12.00	2655	0.51	0.33	0.25	0.17	56	140	-	-	-	-	-	-
	118.30	14.00	2655	0.59	0.39	0.29	0.19	56	140	-	-	-	-	-	-
	106.70	16.00	2655	0.67	0.44	0.34	0.22	56	140	-	-	-	-	-	-
	95.90	17.00	2655	0.72	0.47	0.36	0.24	56	140	-	-	-	-	-	-
	82.08	20.00	2655	0.84	0.56	0.42	0.28	56	140	-	-	-	-	-	-
	72.18	23.00	2655	0.97	0.64	0.48	0.32	56	140	-	-	-	-	-	-
	64.10	26.00	2655	1.09	0.72	0.55	0.36	56	140	180	-	-	-	-	-
	57.96	29.00	2655	1.22	0.81	0.61	0.40	56	140	-	-	-	-	-	-
	53.42	31.00	2655	1.31	0.86	0.65	0.43	56	140	180	-	-	-	-	-
	50.97	32.00	2655	1.35	0.89	0.67	0.44	56	140	-	-	-	-	-	-
	45.26	37.00	2655	1.56	1.03	0.78	0.51	56	140	180	-	-	-	-	-
	41.03	41.00	2655	1.73	1.14	0.86	0.57	56	140	180	-	-	-	-	-
	37.72	46.00	2655	1.94	1.28	0.97	0.64	56	140	180	-	-	-	-	-
	32.94	52.00	2478	2.04	1.35	1.02	0.67	56	140	180	210	-	-	-	-
	29.01	59.00	2390	2.24	1.48	1.12	0.74	56	140	180	210	-	-	-	-
	25.60	66.00	2213	2.32	1.53	1.16	0.76	56	140	180	210	-	-	-	-
	23.10	73.00	2124	2.46	1.62	1.23	0.81	56	140	180	210	-	-	-	-
	20.90	83.00	2036	2.68	1.77	1.34	0.88	56	140	180	210	-	-	-	-
	18.86	92.00	1947	2.84	1.88	1.42	0.94	56	140	180	210	-	-	-	-
	16.37	106.00	1859	3.12	2.06	1.56	1.03	56	140	180	210	-	-	-	-
SK 472	65.56	25.00	2655	1.05	0.69	0.53	0.35	56	-	-	-	-	-	-	-
	51.70	32.00	2655	1.35	0.89	0.67	0.44	56	140	-	-	-	-	-	-
	46.75	35.00	2832	1.57	1.04	0.79	0.52	56	140	-	-	-	-	-	-
	42.21	40.00	2655	1.68	1.11	0.84	0.56	56	140	-	-	-	-	-	-
	38.17	43.00	2832	1.93	1.27	0.97	0.64	56	140	-	-	-	-	-	-
	33.11	50.00	2832	2.25	1.48	1.12	0.74	56	140	-	-	-	-	-	-
	28.83	58.00	2655	2.44	1.61	1.22	0.81	56	140	-	-	-	-	-	-
	26.70	64.00	2832	2.87	1.90	1.44	0.95	56	140	180	-	-	-	-	-
	23.16	73.00	2832	3.28	2.16	1.64	1.08	56	140	180	-	-	-	-	-
	20.17	86.00	2832	3.86	2.55	1.93	1.27	56	140	180	-	-	-	-	-
	18.44	92.00	2655	3.87	2.56	1.94	1.28	56	140	180	-	-	-	-	-
	17.98	96.00	2611	3.98	2.62	1.99	1.31	-	-	180	210	-	-	-	-
	16.63	102.00	2611	4.22	2.79	2.11	1.39	56	140	180	-	-	-	-	-
	15.59	112.00	2611	4.64	3.06	2.32	1.53	-	-	180	210	-	-	-	-
	15.04	113.00	2567	4.60	3.04	2.30	1.52	56	140	180	-	-	-	-	-
	14.02	124.00	2478	4.87	3.22	2.44	1.61	56	140	180	210	-	-	-	-
	12.68	137.00	2390	5.19	3.43	2.60	1.71	56	140	180	210	-	-	-	-
	10.45	166.00	2213	5.83	3.84	2.91	1.92	56	140	180	210	-	-	-	-
	9.22	188.00	2124	6.33	4.18	3.17	2.09	56	140	180	210	-	-	-	-
	8.34	208.00	2080	6.86	4.53	3.43	2.26	56	140	180	210	-	-	-	-
	7.23	241.00	2036	7.78	5.14	3.89	2.57	56	140	180	210	-	-	-	-
	6.30	276.00	2036	8.91	5.88	4.46	2.94	56	140	180	210	-	-	-	-
	5.61	310.00	1947	9.57	6.32	4.79	3.16	-	-	180	210	-	-	-	-
	4.82	361.00	1947	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-
	4.23	412.00	1903	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-
	3.63	479.00	1814	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-
	3.17	548.00	1770	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-
	2.73	637.00	1682	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-

Example
143 TC and 145 TC motors
bolt up to 140 adapter

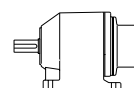
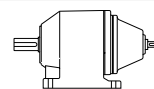
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For permissible Overhung- and Thrust loads on the output shaft see corresponding tables in the Gear Motor section.
For permissible loads applied on the input shaft of Gearboxes (Type W) please see page 8.
See page 6 for additional selection criteria.



HELICAL SPEED REDUCER

TABLE OF CAPACITY AND RATIO
WITH SOLID INPUT SHAFT, TYPE W,
OR FOR ASSEMBLY WITH NEMA MOTORS



Size	Reduction ratio i_{total}	Output speed 4-pol./ 60 Hz n_2 [RPM]	T_2 max 4 - pol. [LB-IN]	max input power, Type W at $f_B \geq 1$				Available NEMA adapters *							
				4 - pol. [HP] *	6 - pol. [HP] *	8 - pol. [HP] *	12 - pol. [HP] *								
SK 573	309.58	5.30	3983	0.33	0.22	0.17	0.11	56	140	-	-	-	-	-	-
	244.95	6.70	3983	0.42	0.28	0.21	0.14	56	-	-	-	-	-	-	-
	218.59	7.40	3983	0.47	0.31	0.23	0.15	56	140	-	-	-	-	-	-
	192.51	8.50	3983	0.54	0.35	0.27	0.18	56	140	-	-	-	-	-	-
	172.96	9.50	3983	0.60	0.40	0.30	0.20	56	-	-	-	-	-	-	-
	152.33	11.00	3983	0.69	0.46	0.35	0.23	56	-	-	-	-	-	-	-
	134.32	12.00	3983	0.76	0.50	0.38	0.25	56	140	-	-	-	-	-	-
	118.30	14.00	3983	0.88	0.58	0.44	0.29	56	140	-	-	-	-	-	-
	106.70	16.00	3983	1.01	0.67	0.51	0.33	56	140	-	-	-	-	-	-
	95.90	17.00	3983	1.07	0.71	0.54	0.35	56	140	-	-	-	-	-	-
	82.08	20.00	3983	1.26	0.83	0.63	0.42	56	140	-	-	-	-	-	-
	72.18	23.00	3983	1.45	0.96	0.73	0.48	56	140	-	-	-	-	-	-
	64.10	26.00	3983	1.64	1.08	0.82	0.54	56	140	180	-	-	-	-	-
	57.96	29.00	3983	1.83	1.21	0.92	0.60	56	140	-	-	-	-	-	-
	53.42	31.00	3983	1.96	1.29	0.98	0.65	56	140	180	-	-	-	-	-
	50.97	32.00	3983	2.02	1.33	1.01	0.67	56	140	-	-	-	-	-	-
	45.26	37.00	3983	2.34	1.54	1.17	0.77	56	140	180	-	-	-	-	-
	41.03	41.00	3983	2.59	1.71	1.29	0.85	56	140	180	-	-	-	-	-
	37.72	46.00	3983	2.91	1.92	1.45	0.96	56	140	180	-	-	-	-	-
	32.94	52.00	3983	3.28	2.17	1.64	1.08	56	140	180	210	-	-	-	-
	29.01	59.00	3983	3.73	2.46	1.86	1.23	56	140	180	210	-	-	-	-
	25.60	66.00	3983	4.17	2.75	2.08	1.38	56	140	180	210	-	-	-	-
	23.10	73.00	3983	4.61	3.04	2.31	1.52	56	140	180	210	-	-	-	-
	20.90	83.00	3983	5.24	3.46	2.62	1.73	56	140	180	210	-	-	-	-
	18.86	92.00	3983	5.81	3.84	2.91	1.92	56	140	180	210	-	-	-	-
	16.37	106.00	3983	6.70	4.42	3.35	2.21	56	140	180	210	-	-	-	-
SK 572	51.70	32.00	3275	1.66	1.10	0.83	0.55	56	140	-	-	-	-	-	-
	46.75	35.00	3275	1.82	1.20	0.91	0.60	56	140	-	-	-	-	-	-
	42.21	40.00	3275	2.08	1.37	1.04	0.69	56	140	-	-	-	-	-	-
	38.17	43.00	3275	2.23	1.47	1.12	0.74	56	140	-	-	-	-	-	-
	33.11	50.00	3540	2.81	1.85	1.40	0.93	56	140	-	-	-	-	-	-
	28.83	58.00	3275	3.01	1.99	1.51	0.99	56	140	-	-	-	-	-	-
	26.70	64.00	3983	4.04	2.67	2.02	1.33	56	140	180	-	-	-	-	-
	23.16	73.00	3983	4.61	3.04	2.31	1.52	56	140	180	-	-	-	-	-
	20.17	86.00	3983	5.43	3.59	2.72	1.79	56	140	180	-	-	-	-	-
	17.98	96.00	3983	6.06	4.00	3.03	2.00	-	-	180	210	-	-	-	-
	18.44	92.00	3983	5.81	3.84	2.91	1.92	56	140	180	-	-	-	-	-
	16.63	102.00	3983	6.44	4.25	3.22	2.13	56	140	180	-	-	-	-	-
	15.59	112.00	3983	7.07	4.67	3.54	2.33	-	-	180	210	-	-	-	-
	15.04	113.00	3850	6.90	4.55	3.45	2.28	56	140	180	-	-	-	-	-
	14.02	124.00	3806	7.48	4.94	3.74	2.47	56	140	180	210	-	-	-	-
	12.68	137.00	3806	8.27	5.46	4.13	2.73	56	140	180	210	-	-	-	-
	10.45	166.00	3452	9.09	6.00	4.54	3.00	56	140	180	210	-	-	-	-
	9.22	188.00	3363	10.00	6.60	5.00	3.30	56	140	180	210	-	-	-	-
	8.34	208.00	3319	10.00	6.60	5.00	3.30	56	140	180	210	-	-	-	-
	7.23	241.00	3186	10.00	6.60	5.00	3.30	56	140	180	210	-	-	-	-
	6.30	276.00	3009	10.00	6.60	5.00	3.30	56	140	180	210	-	-	-	-
	5.61	310.00	3009	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-
	4.82	361.00	2788	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-
	4.23	412.00	2744	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-
	3.63	479.00	2744	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-
	3.17	548.00	2213	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-
	2.73	637.00	2168	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-

Example

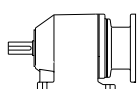
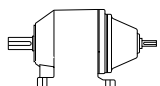
143 TC and 145 TC motors
bolt up to 140 adapter

* max. Input power is limited by the standard NEMA frame power assignments.
For combination with servomotors or other high torque motors please contact NORD.

For permissible Overhung- and Thrust loads on the output shaft see corresponding tables in the Gear Motor section.

For permissible loads applied on the input shaft of Gearboxes (Type W) please see page 8.

See page 6 for additional selection criteria.



HELICAL SPEED REDUCER

TABLE OF CAPACITY AND RATIO
WITH SOLID INPUT SHAFT, TYPE W,
OR FOR ASSEMBLY WITH NEMA MOTORS



Size	Reduction ratio i_{total}	Output speed 4-pol./ 60 Hz n_2 [RPM]	$T_{2 max}$ 4 - pol. [LB-IN]	max input power, Type W at $f_b \geq 1$				Available NEMA adapters *							
				4 - pol. [HP] *	6 - pol. [HP] *	8 - pol. [HP] *	12 - pol. [HP] *								
SK 673	340.54	4.80	5576	0.42	0.28	0.21	0.14	56	140	-	-	-	-	-	-
	267.99	6.10	5576	0.54	0.36	0.27	0.18	56	-	-	-	-	-	-	-
	211.34	7.80	5576	0.69	0.46	0.34	0.23	56	140	-	-	-	-	-	-
	185.29	8.90	5576	0.79	0.52	0.39	0.26	56	-	-	-	-	-	-	-
	146.13	11.00	5576	0.97	0.64	0.49	0.32	56	140	-	-	-	-	-	-
	119.31	14.00	5576	1.24	0.82	0.62	0.41	56	140	-	-	-	-	-	-
	103.46	16.00	5576	1.41	0.93	0.71	0.47	56	140	-	-	-	-	-	-
	84.47	19.00	5576	1.68	1.11	0.84	0.55	56	140	-	-	-	-	-	-
	75.38	22.00	5576	1.95	1.28	0.97	0.64	56	140	180	-	-	-	-	-
	67.98	24.00	5576	2.12	1.40	1.06	0.70	56	140	180	-	-	-	-	-
	57.30	29.00	5576	2.56	1.69	1.28	0.85	56	140	180	210	-	-	-	-
	52.12	32.00	5576	2.83	1.87	1.41	0.93	56	140	180	-	-	-	-	-
	47.00	36.00	5576	3.18	2.10	1.59	1.05	56	140	180	-	-	-	-	-
	39.62	43.00	5576	3.80	2.51	1.90	1.25	56	140	180	210	-	-	-	-
	33.55	50.00	5576	4.42	2.92	2.21	1.46	-	-	180	210	-	-	-	-
	29.53	59.00	5576	5.22	3.44	2.61	1.72	56	140	180	210	-	-	-	-
	28.05	62.00	5576	5.48	3.62	2.74	1.81	56	140	180	210	-	-	-	-
	26.06	66.00	5576	5.84	3.85	2.92	1.93	56	140	180	210	-	-	-	-
	23.20	74.00	5576	6.54	4.32	3.27	2.16	-	-	180	210	-	-	-	-
	20.90	83.00	5576	7.34	4.84	3.67	2.42	56	140	180	210	-	-	-	-
	18.45	94.00	5399	8.05	5.31	4.02	2.66	56	140	180	210	-	-	-	-
	16.42	106.00	5310	8.93	5.89	4.46	2.95	-	-	180	210	-	-	-	-
SK 672	64.18	25.00	3983	1.58	1.04	0.79	0.52	56	140	-	-	-	-	-	-
	56.90	29.00	3717	1.71	1.13	0.85	0.56	56	140	-	-	-	-	-	-
	52.03	32.00	4115	2.09	1.38	1.04	0.69	56	140	-	-	-	-	-	-
	46.13	36.00	4602	2.63	1.73	1.31	0.87	56	140	-	-	-	-	-	-
	40.13	42.00	4160	2.77	1.83	1.39	0.91	56	140	-	-	-	-	-	-
	37.02	46.00	5045	3.68	2.43	1.84	1.21	56	140	180	-	-	-	-	-
	32.82	52.00	4779	3.94	2.60	1.97	1.30	56	140	180	-	-	-	-	-
	28.55	59.00	4868	4.55	3.01	2.28	1.50	56	140	180	-	-	-	-	-
	25.32	68.00	5045	5.44	3.59	2.72	1.80	56	140	180	-	-	-	-	-
	21.51	80.00	4956	6.29	4.15	3.14	2.08	56	140	180	-	-	-	-	-
	19.45	89.00	5310	7.50	4.95	3.75	2.47	-	-	180	210	-	-	-	-
	18.86	92.00	3761	5.49	3.62	2.74	1.81	56	140	180	-	-	-	-	-
	17.42	100.00	5222	8.28	5.47	4.14	2.73	56	140	180	210	-	-	-	-
	15.44	113.00	4956	8.88	5.86	4.44	2.93	56	140	180	210	-	-	-	-
	13.87	125.00	4868	9.65	6.37	4.83	3.18	56	140	180	210	-	-	-	-
	12.09	144.00	4646	10.00	6.60	5.00	3.30	56	140	180	210	-	-	-	-
	10.52	166.00	4779	10.00	6.60	5.00	3.30	56	140	180	210	-	-	-	-
	9.33	186.00	4691	10.00	6.60	5.00	3.30	56	140	180	210	-	-	-	-
	8.31	209.00	4602	10.00	6.60	5.00	3.30	56	140	180	210	-	-	-	-
	7.93	220.00	4779	10.00	6.60	5.00	3.30	56	140	180	210	-	-	-	-
	7.37	236.00	4425	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-
	6.26	278.00	4514	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-
	5.49	317.00	4337	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-
	4.80	362.00	4160	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-
	4.20	414.00	3983	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-
	3.93	443.00	3983	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-
	3.45	504.00	3806	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-
	2.91	598.00	3629	10.00	6.60	5.00	3.30	-	-	180	210	-	-	-	-

Example
143 TC and 145 TC motors
bolt up to 140 adapter

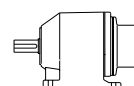
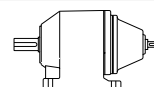
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See page 6 for additional selection criteria.



HELICAL SPEED REDUCER

TABLE OF CAPACITY AND RATIO
WITH SOLID INPUT SHAFT, TYPE W,
OR FOR ASSEMBLY WITH NEMA MOTORS



Size	Reduction ratio i_{total}	Output speed 4-pol./ 60 Hz n_2 [RPM]	T_2 max 4 - pol. [LB-IN]	max input power, Type W at $f_B \geq 1$				Available NEMA adapters *							
				4 - pol. [HP] *	6 - pol. [HP] *	8 - pol. [HP] *	12 - pol. [HP] *								
SK 773	343.08	4.80	7390	0.56	0.37	0.28	0.19	56	140	-	-	-	-	-	-
	293.34	5.50	6328	0.55	0.36	0.28	0.18	56	140	-	-	-	-	-	-
	269.99	6.10	7655	0.74	0.49	0.37	0.24	56	-	-	-	-	-	-	-
	230.85	7.20	7655	0.87	0.58	0.44	0.29	56	-	-	-	-	-	-	-
	212.92	7.80	7655	0.95	0.63	0.47	0.31	56	140	-	-	-	-	-	-
	182.05	9.10	7655	1.10	0.73	0.55	0.36	56	140	-	-	-	-	-	-
	173.85	9.50	7655	1.15	0.76	0.58	0.38	56	140	-	-	-	-	-	-
	148.64	11.00	7655	1.34	0.88	0.67	0.44	56	140	-	-	-	-	-	-
	140.89	12.00	7655	1.46	0.96	0.73	0.48	56	140	-	-	-	-	-	-
	115.04	14.00	7655	1.70	1.12	0.85	0.56	56	140	-	-	-	-	-	-
	98.15	17.00	5974	1.61	1.06	0.81	0.53	56	140	-	-	-	-	-	-
	80.14	20.00	7655	2.43	1.60	1.21	0.80	56	140	-	-	-	-	-	-
	75.95	23.00	7655	2.79	1.84	1.40	0.92	56	140	180	-	-	-	-	-
	68.49	25.00	7655	3.04	2.00	1.52	1.00	56	140	180	-	-	-	-	-
	64.94	26.00	7655	3.16	2.08	1.58	1.04	56	140	180	-	-	-	-	-
	57.73	30.00	7655	3.64	2.40	1.82	1.20	56	140	180	210	-	-	-	-
	49.36	35.00	7655	4.25	2.80	2.12	1.40	56	140	180	210	-	-	-	-
	42.60	41.00	7567	4.92	3.25	2.46	1.62	56	140	180	210	-	-	-	-
	36.79	47.00	7257	5.41	3.57	2.70	1.79	56	140	180	210	-	-	-	-
	32.97	53.00	7257	6.10	4.03	3.05	2.01	56	140	180	210	-	-	-	-
	28.47	61.00	7257	7.02	4.63	3.51	2.32	56	140	180	210	-	-	-	-
	25.13	70.00	7257	8.06	5.32	4.03	2.66	56	140	180	210	-	-	-	-
	22.37	78.00	7257	8.98	5.93	4.49	2.96	-	-	180	210	-	-	-	-
	19.61	89.00	6992	9.87	6.51	4.93	3.26	-	-	180	210	-	-	-	-
	17.50	100.00	6992	11.09	7.32	5.54	3.66	56	140	180	210	-	-	-	-
	15.58	112.00	6726	11.95	7.89	5.97	3.94	-	-	180	210	-	-	-	-
	13.66	127.00	6549	13.19	8.71	6.60	4.35	-	-	180	210	-	-	-	-
SK 772	62.32	26.00	4071	1.68	1.11	0.84	0.55	56	140	-	-	-	-	-	-
	59.53	28.00	3806	1.69	1.12	0.84	0.56	56	140	-	-	-	-	-	-
	51.09	32.00	5045	2.56	1.69	1.28	0.84	56	140	-	-	-	-	-	-
	48.81	34.00	4779	2.58	1.70	1.29	0.85	56	140	-	-	-	-	-	-
	43.45	38.00	4292	2.59	1.71	1.29	0.85	56	140	-	-	-	-	-	-
	38.29	43.00	4292	2.93	1.93	1.46	0.97	56	140	-	-	-	-	-	-
	35.64	49.00	7080	5.50	3.63	2.75	1.82	56	140	180	-	-	-	-	-
	34.05	50.00	6726	5.33	3.52	2.67	1.76	56	140	180	-	-	-	-	-
	30.31	58.00	6062	5.58	3.68	2.79	1.84	56	140	180	-	-	-	-	-
	26.71	65.00	5354	5.52	3.64	2.76	1.82	56	140	180	-	-	-	-	-
	24.72	70.00	7257	8.06	5.32	4.03	2.66	-	-	180	210	-	-	-	-
	23.62	73.00	7257	8.40	5.55	4.20	2.77	-	-	180	210	-	-	-	-
	21.02	83.00	7257	9.55	6.31	4.78	3.15	-	-	180	210	-	-	-	-
	18.53	94.00	6903	10.29	6.79	5.15	3.40	-	-	180	210	-	-	-	-
	17.36	100.00	6903	10.95	7.23	5.47	3.61	56	140	180	210	-	-	-	-
	15.89	109.00	6195	10.71	7.07	5.35	3.53	-	-	180	210	-	-	-	-
	15.66	110.00	6549	11.43	7.54	5.71	3.77	56	140	180	210	-	-	-	-
	13.54	128.00	6372	12.94	8.54	6.47	4.27	56	140	180	210	-	-	-	-
	12.10	144.00	6107	13.95	9.20	6.97	4.60	56	140	180	210	-	-	-	-
	10.23	170.00	5841	15.75	10.39	7.87	5.20	-	-	180	210	250	-	-	-
	9.11	192.00	5576	16.98	11.21	8.49	5.60	-	-	180	210	250	-	-	-
	8.10	216.00	5576	19.10	12.61	9.55	6.30	-	-	180	210	250	-	-	-
	7.14	245.00	5399	20.00	13.20	10.00	6.60	-	-	180	210	250	-	-	-
	6.83	256.00	5266	20.00	13.20	10.00	6.60	-	-	180	210	250	-	-	-
	6.02	290.00	5089	20.00	13.20	10.00	6.60	-	-	180	210	250	-	-	-
	5.16	338.00	5133	20.00	13.20	10.00	6.60	-	-	180	210	250	-	-	-
	4.37	400.00	4912	20.00	13.20	10.00	6.60	-	-	180	210	250	-	-	-
	3.81	458.00	4691	20.00	13.20	10.00	6.60	-	-	180	210	250	-	-	-
	3.22	542.00	4292	20.00	13.20	10.00	6.60	-	-	180	210	250	-	-	-
	2.81	622.00	3540	20.00	13.20	10.00	6.60	-	-	180	210	250	-	-	-
	2.38	733.00	3186	20.00	13.20	10.00	6.60	-	-	180	210	250	-	-	-

Example: 143 TC and 145 TC motors bolt up to 140 adapter

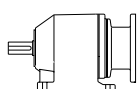
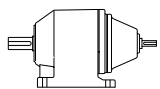
* max. Input power is limited by the standard NEMA frame power assignments.

For combination with servomotors or other high torque motors please contact NORD.

For permissible Overhung- and Thrust loads on the output shaft see corresponding tables in the Gear Motor section.

For permissible loads applied on the input shaft of Gearboxes (Type W) please see page 8.

See page 6 for additional selection criteria.



HELICAL SPEED REDUCER



TABLE OF CAPACITY AND RATIO
WITH SOLID INPUT SHAFT, TYPE W,
OR FOR ASSEMBLY WITH NEMA MOTORS

Size	Reduction ratio i_{total}	Output speed 4-pol./ 60 Hz n_2 [RPM]	$T_{2 \max}$ 4 - pol. [LB-IN]	max input power, Type W at $i_B \geq 1$				Available NEMA adapters *							
				4 - pol. [HP] *	6 - pol. [HP] *	8 - pol. [HP] *	12 - pol. [HP] *								
SK 873	208.67	7.60	14868	1.79	1.18	0.90	0.59	140	-	-	-	-	-	-	-
	168.45	9.80	14868	2.31	1.53	1.16	0.76	140	-	-	-	-	-	-	-
	145.57	12.00	14868	2.83	1.87	1.41	0.93	140	180	-	-	-	-	-	-
	125.39	13.00	12346	2.55	1.68	1.27	0.84	140	-	-	-	-	-	-	-
	117.51	14.00	14868	3.30	2.18	1.65	1.09	140	180	-	-	-	-	-	-
	97.74	17.00	14868	4.01	2.65	2.00	1.32	140	180	210	-	-	-	-	-
	88.16	19.00	14868	4.48	2.96	2.24	1.48	140	180	210	-	-	-	-	-
	81.51	22.00	14868	5.19	3.42	2.59	1.71	-	180	210	-	-	-	-	-
	76.27	23.00	14868	5.42	3.58	2.71	1.79	140	180	210	-	-	-	-	-
	70.89	24.00	14868	5.66	3.74	2.83	1.87	140	180	210	-	-	-	-	-
	63.95	28.00	14868	6.60	4.36	3.30	2.18	140	180	210	-	-	-	-	-
	55.32	31.00	14868	7.31	4.82	3.66	2.41	140	180	210	-	-	-	-	-
	49.43	35.00	14868	8.25	5.45	4.13	2.72	140	180	210	-	-	-	-	-
	43.75	40.00	14868	9.43	6.23	4.72	3.11	-	180	210	250	280	-	-	-
	39.91	43.00	14868	10.14	6.69	5.07	3.35	140	180	210	-	-	-	-	-
	35.32	49.00	14868	11.55	7.63	5.78	3.81	-	180	210	250	280	-	-	-
	31.42	55.00	14868	12.97	8.56	6.48	4.28	-	180	210	250	280	-	-	-
	26.49	66.00	14868	15.56	10.27	7.78	5.14	-	180	210	250	280	-	-	-
	23.38	74.00	14868	17.45	11.52	8.73	5.76	-	180	210	250	280	-	-	-
	19.72	89.00	14337	20.24	13.36	10.12	6.68	-	180	210	250	280	-	-	-
	16.69	104.00	13275	21.90	14.45	10.95	7.23	-	180	210	250	280	-	-	-
SK 872	52.79	32.00	12479	6.33	4.18	3.17	2.09	140	180	-	-	-	-	-	-
	45.81	38.00	10886	6.56	4.33	3.28	2.17	140	180	-	-	-	-	-	-
	40.78	42.00	9735	6.48	4.28	3.24	2.14	140	180	-	-	-	-	-	-
	36.68	47.00	13275	9.90	6.53	4.95	3.27	-	180	210	-	-	-	-	-
	31.83	54.00	13806	11.82	7.80	5.91	3.90	-	180	210	-	-	-	-	-
	28.34	61.00	13718	13.27	8.76	6.64	4.38	-	180	210	-	-	-	-	-
	24.90	70.00	13718	15.23	10.05	7.61	5.03	-	180	210	250	-	-	-	-
	22.16	79.00	13541	16.97	11.20	8.48	5.60	-	180	210	250	-	-	-	-
	18.77	92.00	12833	18.72	12.36	9.36	6.18	140	180	210	-	-	-	-	-
	18.32	95.00	12302	18.54	12.23	9.27	6.12	-	180	210	250	-	-	-	-
	16.78	104.00	12257	20.22	13.34	10.11	6.67	-	180	210	250	280	-	-	-
	15.25	114.00	11859	21.44	14.15	10.72	7.08	-	180	210	250	280	-	-	-
	14.56	120.00	12788	24.34	16.06	12.17	8.03	-	180	210	250	280	-	-	-
	13.23	132.00	12080	25.29	16.69	12.65	8.35	-	180	210	250	280	-	-	-
	11.61	151.00	11638	27.87	18.40	13.94	9.20	-	180	210	250	280	-	-	-
	10.34	169.00	11726	30.00	19.80	15.00	9.90	-	180	210	250	280	-	-	-
	9.64	181.00	11284	30.00	19.80	15.00	9.90	-	180	210	250	280	-	-	-
	8.58	204.00	11240	30.00	19.80	15.00	9.90	-	180	210	250	280	-	-	-
	7.58	232.00	10841	30.00	19.80	15.00	9.90	-	180	210	250	280	-	-	-
	6.75	259.00	10664	30.00	19.80	15.00	9.90	-	180	210	250	280	-	-	-
NEMA	6.34	276.00	11417	30.00	19.80	15.00	9.90	-	180	210	250	280	-	-	-
	5.57	314.00	11063	30.00	19.80	15.00	9.90	-	180	210	250	280	-	-	-
	4.92	356.00	10753	30.00	19.80	15.00	9.90	-	180	210	250	280	-	-	-
	4.23	414.00	8408	30.00	19.80	15.00	9.90	-	180	210	250	280	-	-	-
	3.78	463.00	8275	30.00	19.80	15.00	9.90	-	180	210	250	280	-	-	-
	3.33	526.00	7611	30.00	19.80	15.00	9.90	-	180	210	250	280	-	-	-
	2.94	596.00	6992	30.00	19.80	15.00	9.90	-	180	210	250	280	-	-	-

Example
143 TC and 145 TC motors
bolt up to 140 adapter

* max. Input power is limited by the standard NEMA frame power assignments.
For combination with servomotors or other high torque motors please contact NORD.

For permissible Overhung- and Thrust loads on the output shaft see corresponding tables in the Gear Motor section.
For permissible loads applied on the input shaft of Gearboxes (Type W) please see page 8.
See page 6 for additional selection criteria.

HELICAL SPEED REDUCERS



TABLE OF WEIGHTS - TYPE W AND NEMA ADAPTERS

Weights approx. [LBS] Mounting position B3							
Type	W	NEMA 56	NEMA 140	NEMA 180	NEMA 210	NEMA 250	NEMA 280
SK 172	17	25	25				
SK 272 SK 273	27 28	35 36	35 36	56 57			
SK 372 SK 373	27 28	35 36	35 36	56 57			
SK 472 SK 473	51 52	56 57	56 57	85 86	85 86		
SK 572 SK 573	51 52	56 57	56 57	85 86	85 86		
SK 672 SK 673	70 70	75 75	75 75	104 104	104 104		
SK 772 SK 773	84 88	86 89	86 89	115 119	115 119	138	
SK 872 SK 873	166 169		164 167	190 192	190 192	212 215	234 237
SK 972 SK 973	290 288		266 265	292 291	292 291	314 313	336 335

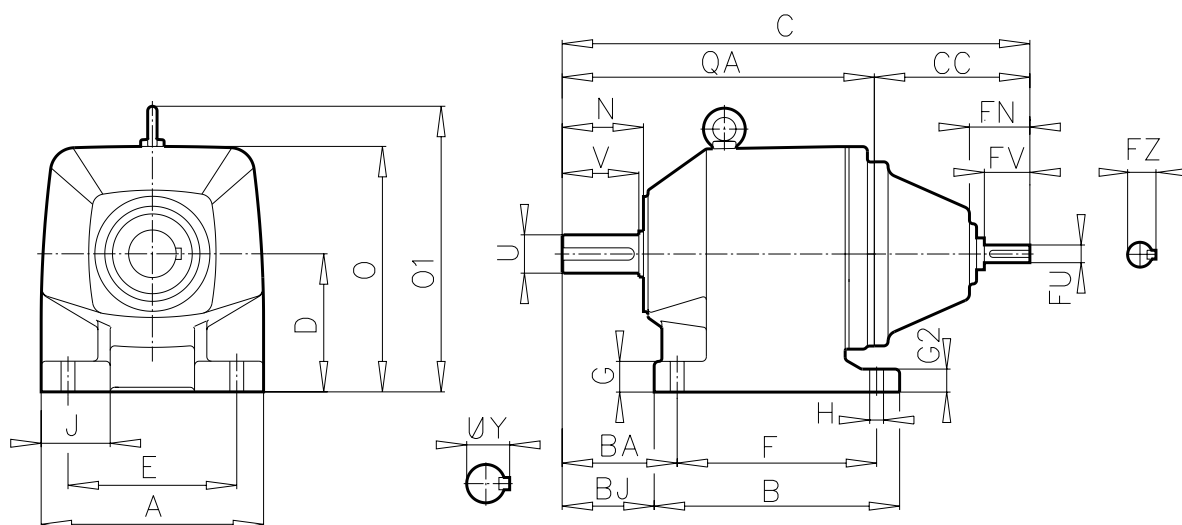
Note: Weights will vary depending on the ratio and oil fill quantity.

Technical design may be subject to change.

HELICAL SPEED REDUCER



DOUBLE AND TRIPLE REDUCTION WITH SOLID INPUT SHAFT - TYPE W



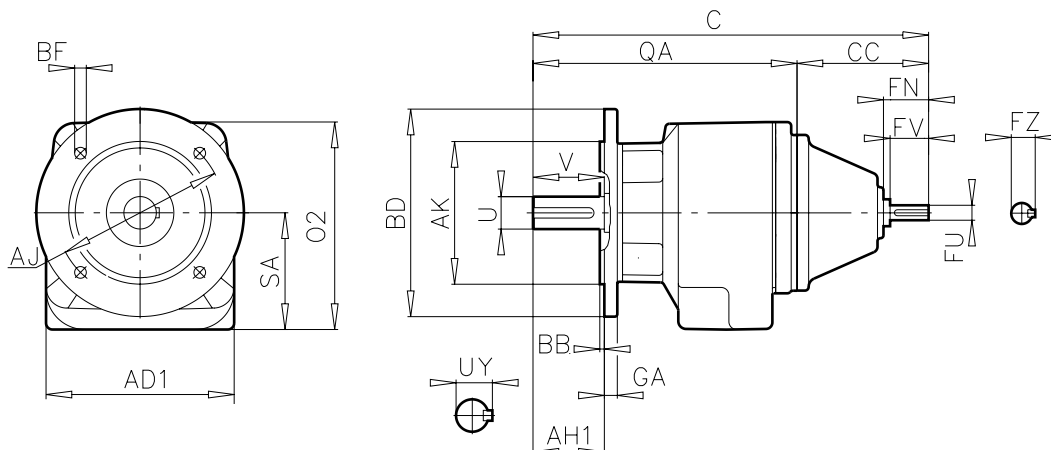
Type	Mounting dimensions (foot)				Outline dimensions								Shaft dimensions					
	A B	E F	G G2	H J	BA	BJ	C CC	D	FN	N	O O1	QA	Output shaft			Input shaft		
SK 172 - W	5.31	4.33	0.47	0.35	2.28	1.79	11.14	2.95	1.73	1.65	5.51	6.85	0.750	0.83	1.57	0.500	1.13	0.56
	5.45	4.33	0.39	0.98			4.29				--		3/16 * 3/16 * 1			1/8 * 1/8 * 7/8		
SK 272 - W	5.71	4.33	0.79	0.35	2.95	2.36	12.48	3.54	1.73	2.09	6.30	8.19	1.000	1.11	1.97	0.625	1.57	0.70
	6.30	5.12	0.59	1.77			4.29				--		1/4 * 1/4 * 1-1/4			3/16 * 3/16 * 1		
SK 273 - W	5.71	4.33	0.71	0.35	2.95	2.52	12.48	3.54	1.73	2.09	6.10	8.19	1.000	1.11	1.97	0.625	1.57	0.70
	5.98	5.12	0.59	1.77			4.29				--		1/4 * 1/4 * 1-1/4			3/16 * 3/16 * 1		
SK 372 - W	5.71	4.33	0.79	0.35	2.95	2.36	12.48	3.54	1.73	2.09	6.30	8.19	1.000	1.11	1.97	0.625	1.57	0.70
	6.30	5.12	0.59	1.77			4.29				--		1/4 * 1/4 * 1-1/4			3/16 * 3/16 * 1		
SK 373 - W	5.83	4.33	0.79	0.35	2.95	2.36	12.48	3.54	1.73	2.09	6.30	8.19	1.000	1.11	1.97	0.625	1.57	0.70
	6.30	5.12	0.59	1.77			4.29				--		1/4 * 1/4 * 1-1/4			3/16 * 3/16 * 1		
SK 472 - W	7.48	5.31	0.98	0.53	3.54	2.85	14.52	4.53	1.69	2.52	8.27	10.23	1.250	1.36	2.36	0.750	1.57	0.83
	7.87	6.50	0.79	2.36			4.29				--		1/4 * 1/4 * 1-5/8			3/16 * 3/16 * 1-1/16		
SK 473 - W	7.48	5.31	0.98	0.53	3.54	2.85	14.52	4.53	1.69	2.52	7.87	10.23	1.250	1.36	2.36	0.750	1.57	0.83
	7.87	6.50	0.79	2.36			4.29				--		1/4 * 1/4 * 1-5/8			3/16 * 3/16 * 1-1/16		
SK 572 - W	7.48	5.31	0.98	0.53	3.94	3.25	14.92	4.53	1.69	2.91	8.27	10.63	1.375	1.52	2.75	0.750	1.57	0.83
	7.87	6.50	0.79	2.36			4.29				--		5/16 * 5/16 * 2-1/8			3/16 * 3/16 * 1-1/16		
SK 573 - W	7.48	5.31	0.98	0.53	3.94	3.25	14.92	4.53	1.69	2.91	8.27	10.63	1.375	1.52	2.75	0.750	1.57	0.83
	7.87	6.50	0.79	2.36			4.29				--		5/16 * 5/16 * 2-1/8			3/16 * 3/16 * 1-1/16		
SK 672 - W	8.27	5.91	1.18	0.53	3.94	3.15	15.75	5.12	1.69	2.91	9.13	11.42	1.375	1.52	2.75	0.750	1.57	0.83
	9.25	7.68	0.98	2.36			4.33				10.43		5/16 * 5/16 * 2-1/8			3/16 * 3/16 * 1-1/16		
SK 673 - W	8.27	5.91	1.18	0.53	3.94	3.15	15.75	5.12	1.69	2.91	9.13	11.42	1.375	1.52	2.75	0.750	1.57	0.83
	9.25	7.68	0.98	2.36			4.33				10.43		5/16 * 5/16 * 2-1/8			3/16 * 3/16 * 1-1/16		
SK 772 - W	9.06	6.69	1.18	0.69	4.53	3.74	17.32	5.51	2.09	3.31	9.92	12.52	1.625	1.79	3.15	0.875	1.97	0.96
	9.65	8.07	0.98	2.76			4.80				11.30		3/8 * 3/8 * 2-1/4			3/16 * 3/16 * 1-1/4		
SK 773 - W	9.06	6.69	1.18	0.69	4.53	3.74	17.32	5.51	2.09	3.31	9.92	12.52	1.625	1.79	3.15	0.875	1.97	0.96
	9.65	8.07	0.98	2.76			4.80				11.30		3/8 * 3/8 * 2-1/4			3/16 * 3/16 * 1-1/4		
SK 872 - W	11.42	8.46	1.77	0.69	5.51	4.53	21.74	7.09	2.52	4.13	12.76	15.28	2.125	2.35	3.94	1.125	2.36	1.24
	12.20	10.24	1.57	3.54			6.46				14.41		1/2 * 1/2 * 2-5/8			1/4 * 1/4 * 1-5/8		
SK 873 - W	11.42	8.46	1.77	0.69	5.51	4.53	21.74	7.09	2.52	4.13	12.76	15.28	2.125	2.35	3.94	1.125	2.36	1.24
	12.20	10.24	1.57	3.54			6.46				14.41		1/2 * 1/2 * 2-5/8			1/4 * 1/4 * 1-5/8		
SK 972 - W	13.39	9.84	2.17	0.87	6.30	5.22	25.99	8.86	3.35	4.96	15.67	17.09	2.375	2.65	4.72	1.375	3.15	1.52
	14.37	12.20	1.97	3.94			8.90				17.68		5/8 * 5/8 * 3-1/4			5/16 * 5/16 * 2-1/2		
SK 973 - W	13.39	9.84	2.17	0.87	6.30	5.22	25.99	8.86	3.35	4.96	15.67	17.09	2.375	2.65	4.72	1.375	3.15	1.52
	14.37	12.20	1.97	3.94			8.90				17.68		5/8 * 5/8 * 3-1/4			5/16 * 5/16 * 2-1/2		

See page 78 for metric shafts. Technical design may be subject to change. DXF files available upon request.

HELICAL SPEED REDUCER



DOUBLE AND TRIPLE REDUCTION WITH SOLID INPUT SHAFT - TYPE W



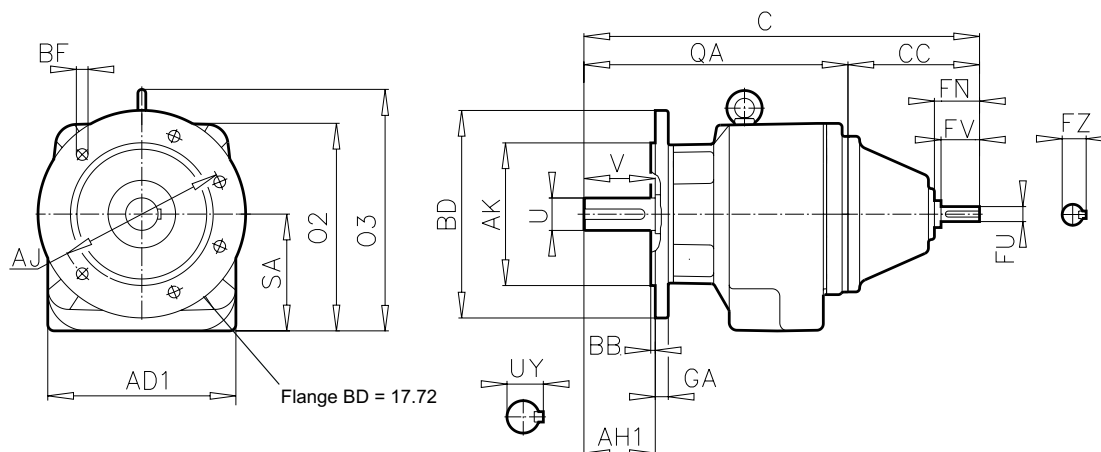
Type	Mounting dimensions (bolt-on B5 flange)						Outline dimensions								Shaft dimensions					
	AJ	AK	BB	BD	BF	GA	AD1	AH1	C	CC	FN	O2	QA	SA	Output shaft			Input shaft		
	Standard shown in bold. Must specify BD dimension														U	UY	V	FU	FV	FZ
															Key			Key		
SK 172 F - W	3.94	3.150	0.12	4.72	0.26	0.39	5.31	1.57	11.14	4.29	1.73	5.59	6.85	3.03	0.750	0.83	1.57	0.500	1.13	0.56
	4.53	3.740	0.12	5.51	0.35	0.39														
	5.12	4.331	0.14	6.30	0.35	0.39														
	6.5	5.118	0.14	7.87	0.43	0.47									3/16 * 3/16 * 1			1/8 * 1/8 * 7/8		
SK 272 F - W	3.94	3.150	0.12	4.72	0.26	0.39	5.71	1.97	12.48	4.29	1.73	6.38	8.19	3.62	1.000	1.11	1.97	0.625	1.57	0.70
	4.53	3.740	0.12	5.51	0.35	0.39														
	5.12	4.331	0.14	6.30	0.35	0.39														
	6.50	5.118	0.14	7.87	0.43	0.47									1/4 * 1/4 * 1-1/4			3/16 * 3/16 * 1		
SK 273 F - W	3.94	3.150	0.12	4.72	0.26	0.39	5.83	1.97	13.27	4.29	1.73	6.18	8.98	3.62	1.000	1.11	1.97	0.625	1.57	0.70
	4.53	3.740	0.12	5.51	0.35	0.39														
	5.12	4.331	0.14	6.30	0.35	0.39														
	6.50	5.118	0.14	7.87	0.43	0.47									1/4 * 1/4 * 1-1/4			3/16 * 3/16 * 1		
SK 372 F - W	3.94	3.150	0.12	4.72	0.26	0.39	5.71	1.97	12.48	4.29	1.73	6.38	8.19	3.62	1.000	1.11	1.97	0.625	1.57	0.70
	4.53	3.740	0.12	5.51	0.35	0.39														
	5.12	4.331	0.14	6.30	0.35	0.39														
	6.50	5.118	0.14	7.87	0.43	0.47									1/4 * 1/4 * 1-1/4			3/16 * 3/16 * 1		
SK 373 F - W	3.94	3.150	0.12	4.72	0.26	0.39	5.83	1.97	13.27	4.29	1.73	6.38	8.98	3.62	1.000	1.11	1.97	0.625	1.57	0.70
	4.53	3.740	0.12	5.51	0.35	0.39														
	5.12	4.331	0.14	6.30	0.35	0.39														
	6.50	5.118	0.14	7.87	0.43	0.47									1/4 * 1/4 * 1-1/4			3/16 * 3/16 * 1		
SK 472 F - W	5.12	4.331	0.14	6.30	0.35	0.39	7.48	2.36	14.53	4.29	1.69	8.35	10.24	4.61	1.250	1.36	2.36	0.750	1.57	0.83
	6.50	5.118	0.14	7.87	0.43	0.47														
	8.46	7.087	0.16	9.84	0.53	0.63														
	10.43	9.055	0.16	11.81	0.53	0.79									1/4 * 1/4 * 1-5/8			3/16 * 3/16 * 1-1/16		
SK 473 F - W	5.12	4.331	0.14	6.30	0.35	0.39	7.48	2.36	15.16	4.29	1.69	8.35	10.87	4.61	1.250	1.36	2.36	0.750	1.57	0.83
	6.50	5.118	0.14	7.87	0.43	0.47														
	8.46	7.087	0.16	9.84	0.53	0.63														
	10.43	9.055	0.16	11.81	0.53	0.79									1/4 * 1/4 * 1-5/8			3/16 * 3/16 * 1-1/16		

See page 78 for metric shafts.
Technical design may be subject to change. DXF files available upon request.

HELICAL SPEED REDUCER



DOUBLE AND TRIPLE REDUCTION WITH SOLID INPUT SHAFT - TYPE W



Type	Mounting dimensions (bolt-on B5 flange)						Outline dimensions								Shaft dimensions					
	AJ	AK	BB	BD	BF	GA	AD1	AH1	C	CC	FN	O2	QA	SA	Output shaft			Input shaft		
	Standard shown in bold. Must specify BD dimension.														U	UY	V	FU	FV	FZ
SK 572 F - W	5.12	4.331	0.14	6.30	0.35	0.39	7.48	2.76	14.92	4.29	1.69	8.35	10.63	4.61	1.375	1.52	2.75	0.750	1.57	0.83
	6.50	5.118	0.14	7.87	0.43	0.47						--			5/16 * 5/16 * 2-1/8			3/16 * 3/16 * 1-1/16		
	8.46	7.087	0.16	9.84	0.53	0.63						--								
	10.43	9.055	0.16	11.81	0.53	0.79														
SK 573 F - W	5.12	4.331	0.14	6.30	0.35	0.39	7.48	2.76	15.55	4.29	1.69	8.35	11.26	4.61	1.250	1.36	2.36	0.75	1.57	0.83
	6.50	5.118	0.14	7.87	0.43	0.47						--			5/16 * 5/16 * 2-1/8			3/16 * 3/16 * 1-1/16		
	8.46	7.087	0.16	9.84	0.53	0.63						--								
	10.43	9.055	0.16	11.81	0.53	0.79														
SK 672 F - W	6.50	5.118	0.14	7.87	0.43	0.47	8.27	2.76	15.75	4.33	1.69	9.13	11.42	5.28	1.375	1.52	2.75	0.750	1.57	0.83
	8.46	7.087	0.16	9.84	0.53	0.63						10.43			5/16 * 5/16 * 2-1/8			3/16 * 3/16 * 1-1/16		
	10.43	9.055	0.16	11.81	0.53	0.79														
SK 673 F - W	6.50	5.118	0.14	7.87	0.43	0.47	8.27	2.76	16.69	4.33	1.69	9.13	12.36	5.28	1.375	1.52	2.75	0.750	1.57	0.83
	8.46	7.087	0.16	9.84	0.53	0.63						10.43			5/16 * 5/16 * 2-1/8			3/16 * 3/16 * 1-1/16		
	10.43	9.055	0.16	11.81	0.53	0.79														
SK 772 F - W	6.50	5.118	0.14	7.87	0.43	0.47	9.06	3.15	17.32	4.80	2.09	9.92	12.52	5.51	1.625	1.79	3.15	0.875	1.97	0.96
	8.46	7.087	0.16	9.84	0.53	0.63						11.30			3/8 * 3/8 * 2-1/4			3/16 * 3/16 * 1-1/4		
	10.43	9.055	0.16	11.81	0.53	0.79														
SK 773 F - W	6.50	5.118	0.14	7.87	0.43	0.47	9.06	3.15	17.48	4.80	2.09	9.92	12.68	5.51	1.625	1.79	3.15	0.875	1.97	0.96
	8.46	7.087	0.16	9.84	0.53	0.63						11.30			3/8 * 3/8 * 2-1/4			3/16 * 3/16 * 1-1/4		
	10.43	9.055	0.16	11.81	0.53	0.79														
SK 872 F - W	8.46	7.087	0.16	9.84	0.53	0.63	11.42	3.94	21.74	6.46	2.52	12.76	15.28	7.09	2.125	2.35	3.94	1.125	2.36	1.24
	10.43	9.055	0.16	11.81	0.53	0.79						14.41			1/2 * 1/2 * 2-5/8			1/4 * 1/4 * 1-5/8		
	11.81	9.843	0.20	13.78	0.69	0.79														
SK 873 F - W	8.46	7.087	0.16	9.84	0.53	0.63	11.42	3.94	22.09	6.46	2.52	12.76	15.63	7.09	2.125	2.35	3.94	1.125	2.36	1.24
	10.43	9.055	0.16	11.81	0.53	0.79						14.41			1/2 * 1/2 * 2-5/8			1/4 * 1/4 * 1-5/8		
	11.81	9.843	0.20	13.78	0.69	0.79														
SK 972 F - W	10.43	9.055	0.16	11.81	0.53	0.79	13.39	4.72	25.99	8.90	3.35	15.67	17.09	8.86	2.375	2.65	4.72	1.375	3.15	1.52
	11.81	9.843	0.20	13.78	0.69	0.79						17.68			5/8 * 5/8 * 3-1/4			5/16 * 5/16 * 2-1/2		
	15.75	13.780	0.20	17.72	0.69	0.87														
SK 973 F - W	10.43	9.055	0.16	11.81	0.53	0.79	13.39	4.72	26.58	8.90	3.35	15.67	17.64	8.86	2.375	2.65	3.94	1.375	3.15	1.52
	11.81	9.843	0.20	13.78	0.69	0.79						17.68			5/8 * 5/8 * 3-1/4			5/16 * 5/16 * 2-1/2		
	15.75	13.780	0.20	17.72	0.69	0.87														

See page 78 for metric shafts.
Technical design may be subject to change. DXF files available upon request.

Type	Mounting dimensions (foot)				Outline dimensions								Shaft dimensions			
	A	E	G	H	BA	BJ	C	CC	D	N	O	QA	U	UY	V	
	B	F	G2	J												
													Key			
SK 172	- 56 C	5.31	4.33	0.47	0.35	2.28	1.79	11.14	4.29	2.95	1.65	5.51	6.85	0.750	0.83	1.57
	- 140 TC	5.45	4.33	0.39	0.98			11.14	4.29					3/16 * 3/16 * 1-1/16		
SK 272	- 56 C	5.71	4.33	0.79	0.35	2.95	2.36	12.46	4.29	3.54	2.09	6.30	8.17	1.000	1.11	1.97
	- 140 TC								12.46				4.29			
	- 180 TC	6.30	5.12	0.59	1.77			14.27	5.51				8.76	1/4 * 1/4 * 1-1/4		
SK 273	- 56 C	5.71	4.33	0.71	0.35	2.95	2.52	12.48	4.29	3.54	2.09	6.10	8.19	1.000	1.11	1.97
	- 140 TC	5.98	5.12	0.59	1.77			12.48	4.29					1/4 * 1/4 * 1-1/4		
SK 372	- 56 C	5.71	4.33	0.79	0.35	2.95	2.36	12.46	4.29	3.54	2.09	6.30	8.17	1.000	1.11	1.97
	- 140 TC								12.46				4.29			
	- 180 TC	6.30	5.12	0.59	1.77			14.27	5.51				8.76	1/4 * 1/4 * 1-1/4		
SK 373	- 56 C	5.83	4.33	0.79	0.35	2.95	2.36	12.46	4.29	3.54	2.09	6.30	8.17	1.000	1.11	1.97
	- 140 TC								12.46				4.29			
	- 180 TC	6.30	5.12	0.59	1.77			14.27	5.51				8.76	1/4 * 1/4 * 1-1/4		
SK 472	- 56 C	7.48	5.31	0.98	0.53	3.54	2.85	13.96	4.29	4.53	2.52	8.27	9.67	1.250	1.36	2.36
	- 140 TC								13.96				4.29			
	- 180 TC	7.87	6.50	0.79	2.36			18.01	7.48				10.53	1/4 * 1/4 * 1-11/16		
	- 210 TC							18.01	7.48							
SK 473	- 56 C	7.48	5.31	0.98	0.53	3.54	2.85	13.96	4.29	4.53	2.52	7.87	9.67	1.250	1.36	2.36
	- 140 TC								13.96				4.29			
	- 180 TC	7.87	6.50	0.79	2.36			18.01	7.48				10.53	1/4 * 1/4 * 1-11/16		
	- 210 TC							18.01	7.48							

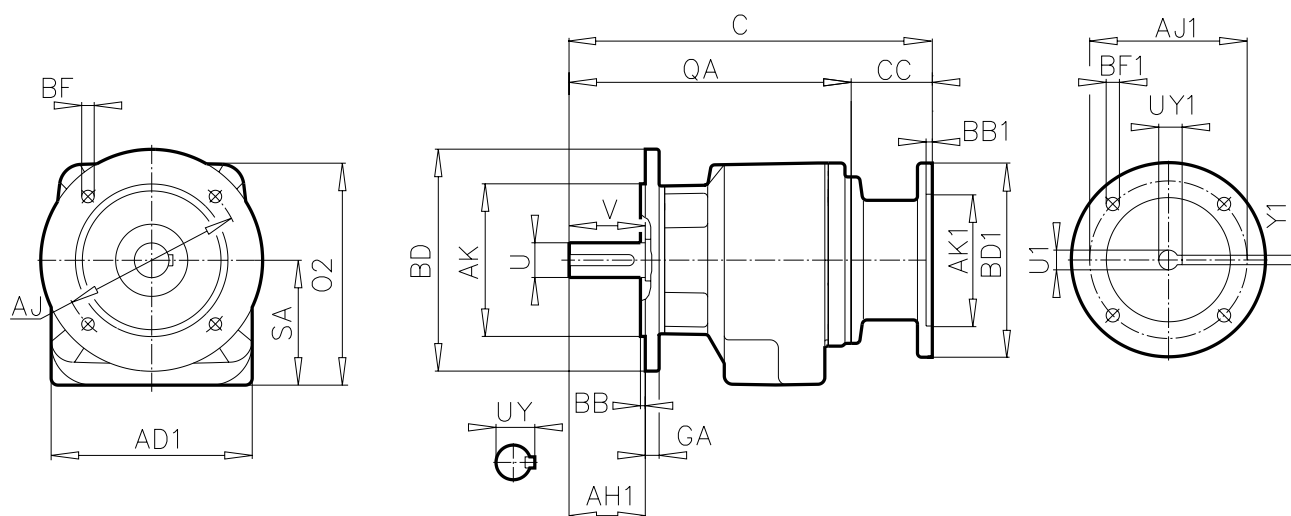
NEMA	AJ1	AK1	BB1	BD1	BF1	U1	UY1	Y1
56 C	5.88	4.500	0.20	6.61	0.43	0.625	0.71	0.188
140 TC	5.88	4.500	0.20	6.61	0.43	0.875	0.96	0.188
180 TC	7.25	8.500	0.23	9.17	0.59	1.125	1.24	0.250
210 TC	7.25	8.500	0.23	9.17	0.59	1.375	1.52	0.312

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HELICAL SPEED REDUCER



DOUBLE AND TRIPLE REDUCTION FOR ASSEMBLY WITH NEMA MOTORS



Type	Mounting dimensions (bolt-on B5 flange)						Outline dimensions							Shaft dimensions		
	AJ	AK	BB	BD	BF	GA	AD1	AH1	C	CC	O2	QA	SA	U	UY	V
	Standard shown in bold. Must specify BD dimension.													Key		
SK 172 F - 56 C - 140 TC	3.94	3.150	0.12	4.72	0.26	0.39	5.31	1.57	11.14	4.29	5.59	6.85	3.03	0.750	0.83	1.57
	4.53	3.740	0.12	5.51	0.35	0.39			11.14	4.29						
	5.12	4.331	0.14	6.30	0.35	0.39										
	6.50	5.118	0.14	7.87	0.43	0.47								3/16 * 3/16 * 1		
SK 272 F - 56 C - 140 TC - 180 TC	3.94	3.150	0.12	4.72	0.26	0.39	5.71	1.97	12.46	4.29	6.38	8.17	3.62	1.000	1.11	1.97
	4.53	3.740	0.12	5.51	0.35	0.39			12.46	4.29						
	5.12	4.331	0.14	6.30	0.35	0.39			14.27	5.51		8.76				
	6.50	5.118	0.14	7.87	0.43	0.47										
SK 273 F - 56 C - 140 TC	3.94	3.150	0.12	4.72	0.26	0.39	5.83	1.97	13.27	4.29	6.18	8.98	3.62	1.000	1.11	1.97
	4.53	3.740	0.12	5.51	0.35	0.39			13.27	4.29						
	5.12	4.331	0.14	6.30	0.35	0.39										
	6.50	5.118	0.14	7.87	0.43	0.47										
SK 372 F - 56 C - 140 TC - 180 TC	3.94	3.150	0.12	4.72	0.26	0.39	5.71	1.97	12.46	4.29	6.38	8.17	3.62	1.000	1.11	1.97
	4.53	3.740	0.12	5.51	0.35	0.39			12.46	4.29						
	5.12	4.331	0.14	6.30	0.35	0.39			14.27	5.51		8.76				
	6.50	5.118	0.14	7.87	0.43	0.47										
SK 373 F - 56 C - 140 TC - 180 TC	3.94	3.150	0.12	4.72	0.26	0.39	5.83	1.97	13.25	4.29	6.38	8.96	3.62	1.000	1.11	1.97
	4.53	3.740	0.12	5.51	0.35	0.39			13.25	4.29						
	5.12	4.331	0.14	6.30	0.35	0.39			15.06	5.51		9.55				
	6.50	5.118	0.14	7.87	0.43	0.47										
SK 472 F - 56 C - 140 TC - 180 TC - 210 TC	5.12	4.331	0.14	6.30	0.35	0.39	7.48	2.36	13.96	4.29	8.35	9.67	4.61	1.250	1.36	2.36
	6.50	5.118	0.14	7.87	0.43	0.47			13.96	4.29						
	8.46	7.087	0.16	9.84	0.53	0.63			18.01	7.48		10.53				
	10.43	9.055	0.16	11.81	0.53	0.79			18.01	7.48						
SK 473 F - 56 C - 140 TC - 180 TC - 210 TC	5.12	4.331	0.14	6.30	0.35	0.39	7.48	2.36	14.59	4.29	8.35	10.30	4.61	1.250	1.36	2.36
	6.50	5.118	0.14	7.87	0.43	0.47			14.590	4.29						
	8.46	7.087	0.16	9.84	0.53	0.63			18.64	7.48		11.16				
	10.43	9.055	0.16	11.81	0.53	0.79			18.64	7.48						

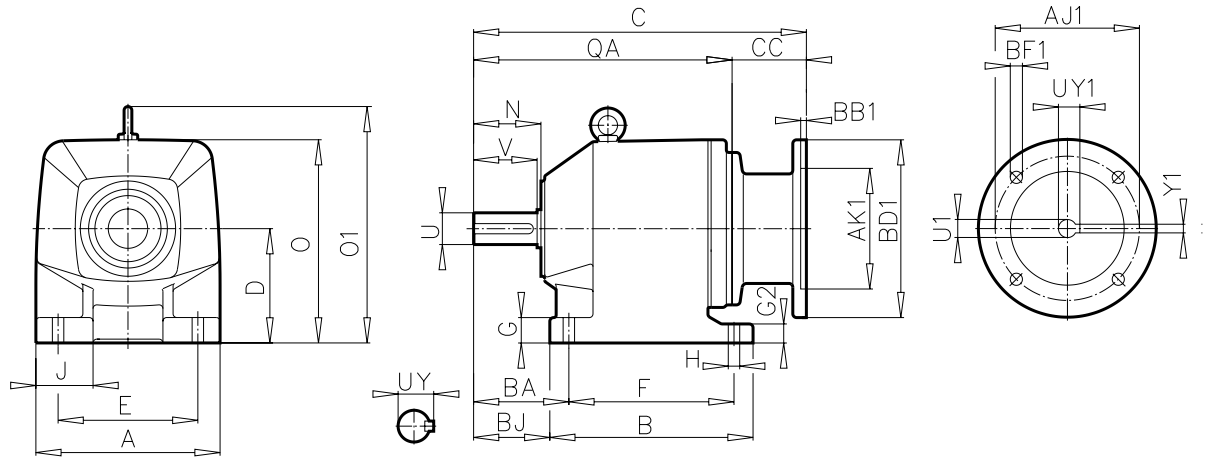
NEMA	AJ1	AK1	BB1	BD1	BF1	U1	UY1	Y1
56 C	5.88	4.500	0.20	6.61	0.43	0.625	0.71	0.188
140 TC	5.88	4.500	0.20	6.61	0.43	0.875	0.96	0.188
180 TC	7.25	8.500	0.23	9.17	0.59	1.125	1.24	0.250
210 TC	7.25	8.500	0.23	9.17	0.59	1.375	1.52	0.312

See page 78 for metric shafts and for IEC motor adapters. Technical design may be subject to change. DXF files available upon request.

HELICAL SPEED REDUCER



DOUBLE AND TRIPLE REDUCTION FOR ASSEMBLY WITH NEMA MOTORS



Type	Mounting dimensions (foot)				Outline dimensions										Shaft dimensions		
	A	E	G	H	BA	BJ	C	CC	D	N	O	O1	QA	U	UY	V	
	B	F	G2	J													
Key																	
SK 572 - 56 C - 140 TC - 180 TC - 210 TC	7.48	5.31	0.98	0.53	3.94	3.25	14.35	4.29	4.53	2.91	8.27	--	10.06	1.375	1.52	2.75	
	7.87	6.50	0.79	2.36			14.35	4.29					10.93				
							18.41	7.48									
							18.41	7.48									
SK 573 - 56 C - 140 TC - 180 TC - 210 TC	7.48	5.31	0.98	0.53	3.94	3.25	14.35	4.29	4.53	2.91	8.27	--	10.06	1.375	1.52	2.75	
	7.87	6.50	0.79	2.36			14.35	4.29					10.93				
							18.41	7.48									
							18.41	7.48									
SK 672 - 56 C - 140 TC - 180 TC - 210 TC	8.27	5.91	1.18	0.53	3.94	3.15	15.18	4.29	5.12	2.91	9.13	10.43	10.89	1.375	1.52	2.75	
	9.25	7.68	0.98	2.36			15.18	4.29					11.75				
							19.23	7.48									
							19.23	7.48									
SK 673 - 56 C - 140 TC - 180 TC - 210 TC	8.27	5.91	1.18	0.53	3.94	3.15	15.18	4.29	5.12	2.91	9.13	10.43	10.89	1.375	1.52	2.75	
	9.25	7.68	0.98	2.36			15.18	4.29					11.75				
							19.23	7.48									
							19.23	7.48									
SK 772 - 56 C - 140 TC - 180 TC - 210 TC - 250 TC	9.06	6.69	1.18	0.69	4.53	3.74	15.92	4.29	5.51	3.31	9.92	11.30	11.63	1.625	1.79	3.15	
							15.92	4.29					12.50				
	0.65	8.07	0.98	2.76			19.98	7.48									
							19.98	7.48					12.78				
SK 773 - 56 C - 140 TC - 180 TC - 210 TC	9.06	6.69	1.18	0.69	4.53	3.74	15.92	4.29	5.51	3.31	9.92	11.30	11.63	1.625	1.79	3.15	
							15.92	4.29					12.50				
	9.65	8.07	0.98	2.76			19.98	7.48									
							19.98	7.48									

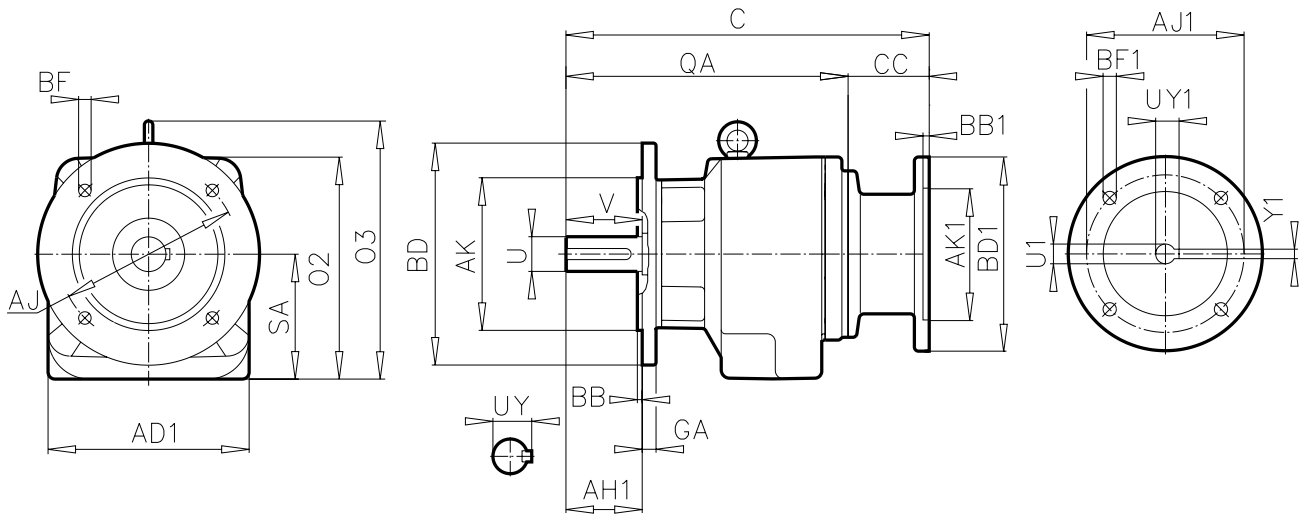
NEMA	AJ1	AK1	BB1	BD1	BF1	U1	UY1	Y1
56 C	5.88	4.500	0.20	6.61	0.43	0.625	0.71	0.188
140 TC	5.88	4.500	0.20	6.61	0.43	0.875	0.96	0.188
180 TC	7.25	8.500	0.23	9.17	0.59	1.125	1.24	0.250
210 TC	7.25	8.500	0.23	9.17	0.59	1.375	1.52	0.312
250 TC	7.25	8.500	0.23	9.17	0.59	1.625	1.80	0.375

See page 78 for metric shafts and for IEC motor adapters.
Technical design may be subject to change. DXF files available upon request.

HELICAL SPEED REDUCER



DOUBLE AND TRIPLE REDUCTION FOR ASSEMBLY WITH NEMA MOTORS



Type	Mounting dimensions (bolt-on B5 flange)						Outline dimensions								Shaft dimensions		
	AJ	AK	BB	BD	BF	GA	AD1	AH1	C	CC	O2	O3	QA	SA	U	UY Key	V
Standard shown in bold. Must specify BD dimension.																	
SK 572 F - 56 C - 140 TC - 180 TC - 210 TC	5.12	4.331	0.14	6.30	0.35	0.39			14.35	4.29			10.06		1.375	1.52	2.75
	6.50	5.118	0.14	7.87	0.43	0.47			14.35	4.29							
	8.46	7.087	0.16	9.84	0.53	0.63	7.48	2.76	18.41	7.48	8.35	--	10.93	4.61			
	10.43	9.055	0.16	11.81	0.53	0.79			18.41	7.48							5/16 * 5/16 * 2-1/8
SK 573 F - 56 C - 140 TC - 180 TC - 210 TC	5.12	4.331	0.14	6.30	0.35	0.39			14.98	4.29			10.69		1.375	1.52	2.75
	6.50	5.118	0.14	7.87	0.43	0.47			14.98	4.29	8.35	--		4.61			
	8.46	7.087	0.16	9.84	0.53	0.63			19.04	7.48			11.56				
	10.43	9.055	0.16	11.81	0.53	0.79			19.04	7.48							5/16 * 5/16 * 2-1/8
SK 672 F - 56 C - 140 TC - 180 TC - 210 TC	6.50	5.118	0.14	7.87	0.43	0.47			15.17	4.29			10.88		1.375	1.52	2.75
	8.46	7.087	0.16	9.84	0.53	0.63	8.27	2.76	15.17	4.29	9.13	10.43		5.28			
									19.23	7.48			11.75				
	10.43	9.055	0.16	11.81	0.53	0.79			19.23	7.48							5/16 * 5/16 * 2-1/8
SK 673 F - 56 C - 140 TC - 180 TC - 210 TC	6.50	5.118	0.14	7.87	0.43	0.47			16.12	4.29			11.83		1.375	1.52	2.75
	8.46	7.087	0.16	9.84	0.53	0.63	8.27	2.76	16.12	4.29	9.13	10.43		5.28			
									20.18	7.48			12.70				
	10.43	9.055	0.16	11.81	0.53	0.79			20.18	7.48							5/16 * 5/16 * 2-1/8
SK 772 F - 56 C - 140 TC - 180 TC - 210 TC - 250 TC	6.50	5.118	0.14	7.87	0.43	0.47			15.92	4.29			11.63		1.625	1.79	3.15
	8.46	7.087	0.16	9.84	0.53	0.63			15.92	4.29							
	10.43	9.055	0.16	11.81	0.53	0.79	9.06	3.15	19.98	7.48	9.92	11.30	12.50	5.51			
									19.98	7.48							
SK 773 F - 56 C - 140 TC - 180 TC - 210 TC	6.50	5.118	0.14	7.87	0.43	0.47			16.49	4.29			12.26		1.625	1.79	3.15
	8.46	7.087	0.16	9.84	0.53	0.63			16.49	4.29	9.92	11.30		5.51			
	10.43	9.055	0.16	11.81	0.53	0.79			20.61	7.48			13.13				
									20.61	7.48							3/8 * 3/8 * 2-1/4

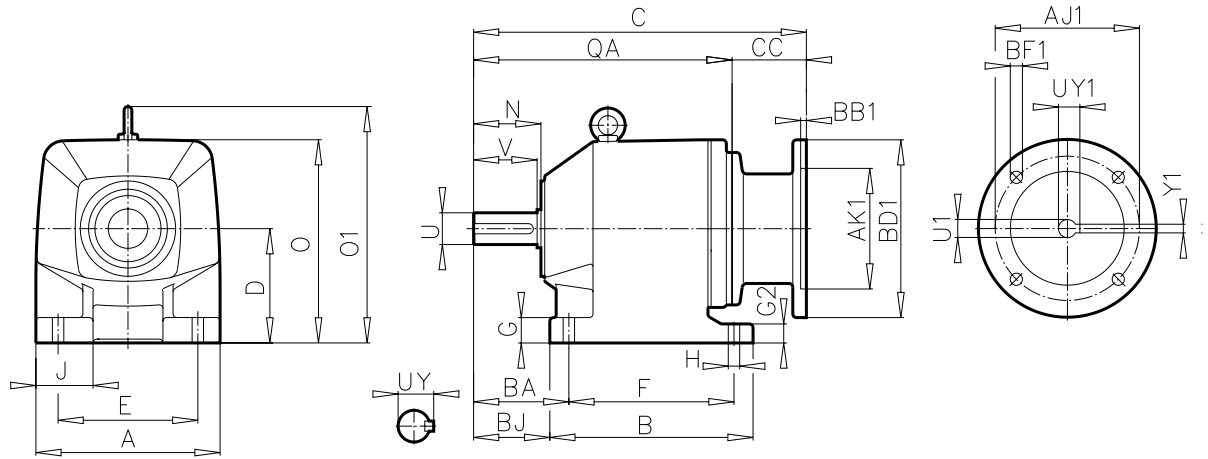
NEMA	AJ1	AK1	BB1	BD1	BF1	U1	UY1	Y1
56 C	5.88	4.500	0.20	6.61	0.43	0.625	0.71	0.188
140 TC	5.88	4.500	0.20	6.61	0.43	0.875	0.96	0.188
180 TC	7.25	8.500	0.23	9.17	0.59	1.125	1.24	0.250
210 TC	7.25	8.500	0.23	9.17	0.59	1.375	1.52	0.312
250 TC	7.25	8.500	0.23	9.17	0.59	1.625	1.80	0.375

See page 78 for metric shafts and for IEC motor adapters.
Technical design may be subject to change. DXF files available upon request.

HELICAL SPEED REDUCER



DOUBLE AND TRIPLE REDUCTION FOR ASSEMBLY WITH NEMA MOTORS



Type	Mounting dimensions (foot)				Outline dimensions									Shaft dimensions		
	A	E	G	H	BA	BJ	C	CC	D	N	O	O1	QA	U	UY	V
	B	F	G2	J												
Key																
SK 872 - 140 TC	11.42	8.46	1.77	0.69	5.51	4.53	19.96 5.20		7.09	4.13	12.76	14.41	14.76	2.125	2.35	3.94
							22.52 7.48						15.04			
							22.52 7.48									
	- 180 TC	12.20	10.24	1.57	3.54	23.37 8.09			15.28							
- 210 TC	23.63 8.35						1/2 * 1/2 * 2-5/8									
SK 873 - 140 TC	11.42	8.46	1.77	0.69	5.51	4.53	19.96 5.20		7.09	4.13	12.76	14.41	14.76	2.125	2.35	3.94
							22.52 7.48						15.04			
							22.52 7.48									
	- 180 TC	12.20	10.24	1.57	3.54	23.37 8.09			15.28							
- 210 TC	23.63 8.35						1/2 * 1/2 * 2-5/8									
SK 972 - 140 TC	13.39	9.84	2.17	0.87	6.30	5.22	21.97 5.20		8.86	4.96	15.67	17.68	16.77	2.375	2.65	4.72
							24.35 7.48						16.87			
							24.35 7.48									
	- 180 TC	14.37	12.20	1.97	3.94	25.20 8.09			17.11							
- 210 TC	25.46 8.35						5/8 * 5/8 * 3-1/4									
SK 973 - 140 TC	13.39	9.84	2.17	0.87	6.30	5.22	21.97 5.20		8.86	4.96	15.67	17.68	16.77	2.375	2.65	4.72
							24.35 7.48						16.87			
							24.35 7.48									
	- 180 TC	14.37	12.20	1.97	3.94	25.20 8.09			17.11							
- 210 TC	25.46 8.35						5/8 * 5/8 * 3-1/4									

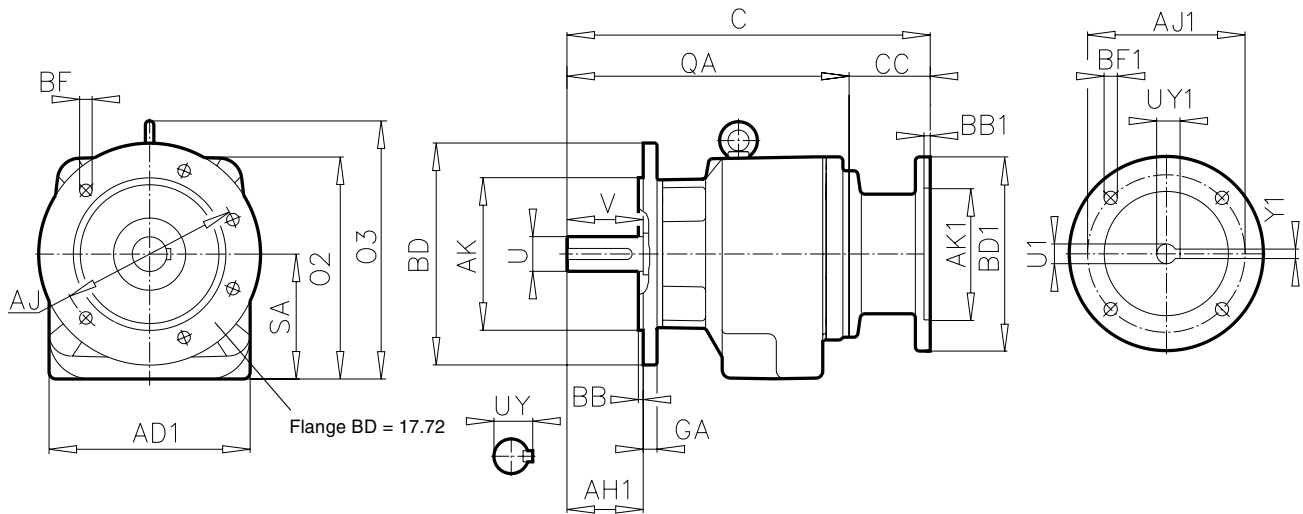
NEMA	AJ1	AK1	BB1	BD1	BF1	U1	UY1	Y1
140 TC	5.88	4.500	0.20	6.61	0.43	0.875	0.96	0.188
180 TC	7.25	8.500	0.23	9.17	0.59	1.125	1.24	0.250
210 TC	7.25	8.500	0.23	9.17	0.59	1.375	1.52	0.312
250 TC	7.25	8.500	0.23	9.17	0.59	1.625	1.80	0.375
280 TC	9.00	10.500	0.23	11.26	0.59	1.875	2.10	0.500

See page 78 for metric shafts and for IEC motor adapters.
Technical design may be subject to change. DXF files available upon request.

HELICAL SPEED REDUCER



DOUBLE AND TRIPLE REDUCTION FOR ASSEMBLY WITH NEMA MOTORS



Type	Mounting dimensions (bolt-on B5 flange)						Outline dimensions								Shaft dimensions		
	AJ	AK	BB	BD	BF	GA	AD1	AH1	C	CC	O2	O3	QA	SA	U	UY	V
Standard shown in bold. Must specify BD dimension.																	
SK 872 F - 140 TC	8.46	7.087	0.16	9.84	0.53	0.63			19.96	5.20			14.76		2.125	2.35	3.94
	10.43	9.055	0.16	11.81	0.53	0.79			22.52	7.48			15.04				
	11.81	9.843	0.20	13.78	0.69	0.79	11.42	3.94	22.52	7.48	12.76	14.41		7.09			
									23.37	8.09			15.28				
									23.63	8.35							1/2 * 1/2 * 2-5/8
SK 873 F - 140 TC	8.46	7.087	0.16	9.84	0.53	0.63			20.32	5.20			15.12		2.125	2.35	3.94
	10.43	9.055	0.16	11.81	0.53	0.79			22.87	7.48			15.39				
	11.81	9.843	0.20	13.78	0.69	0.79	11.42	3.94	22.87	7.48	12.76	14.41		7.09			
									23.72	8.09			15.63				
									23.98	8.35							1/2 * 1/2 * 2-5/8
SK 972 F - 140 TC	10.43	9.055	0.16	11.81	0.53	0.79			21.97	5.20			16.77		2.375	2.65	4.72
	11.81	9.843	0.20	13.78	0.69	0.79			24.35	7.48			16.87				
	15.75	13.780	0.20	17.72	0.69	0.87	13.39	4.72	24.35	7.48	15.67	17.68		8.86			
									25.20	8.09			17.11				
									25.46	8.35							5/8 * 5/8 * 3-1/4
SK 973 F - 140 TC	10.43	9.055	0.16	11.81	0.53	0.79			22.48	5.20			17.28		2.375	2.65	4.72
	11.81	9.843	0.20	13.78	0.69	0.79			24.86	7.48			17.38				
	15.75	13.780	0.20	17.72	0.69	0.87	13.39	4.72	24.86	7.48	15.67	17.68		8.86			
									25.71	8.09			17.62				
									25.97	8.35							5/8 * 5/8 * 3-1/4

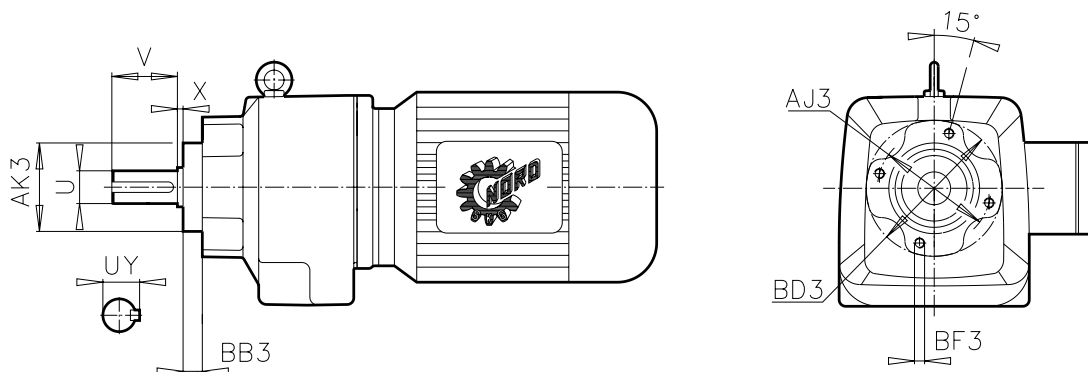
NEMA	AJ1	AK1	BB1	BD1	BF1	U1	UY1	Y1
140 TC	5.88	4.500	0.20	6.61	0.43	0.875	0.96	0.188
180 TC	7.25	8.500	0.23	9.17	0.59	1.125	1.24	0.250
210 TC	7.25	8.500	0.23	9.17	0.59	1.375	1.52	0.312
250 TC	7.25	8.500	0.23	9.17	0.59	1.625	1.80	0.375
280 TC	9.00	10.500	0.23	11.26	0.59	1.875	2.10	0.500

See page 78 for metric shafts and for IEC motor adapters.
Technical design may be subject to change. DXF files available upon request.

HELICAL SPEED REDUCER - OPTIONS



FLANGE MOUNTED, B14 - Z



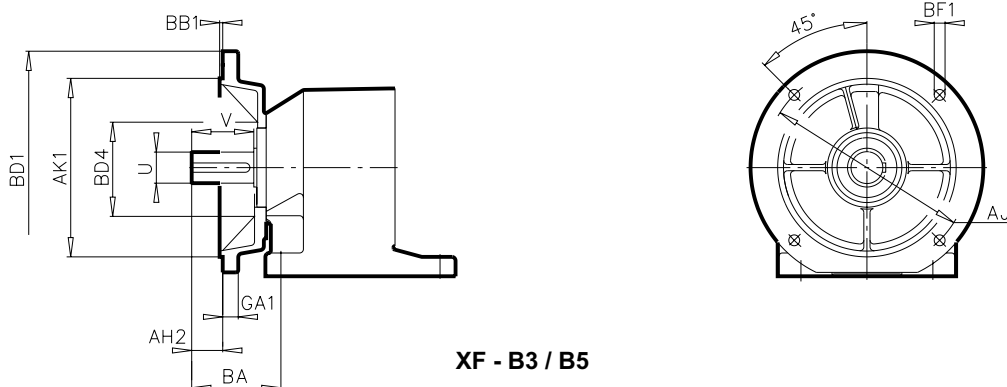
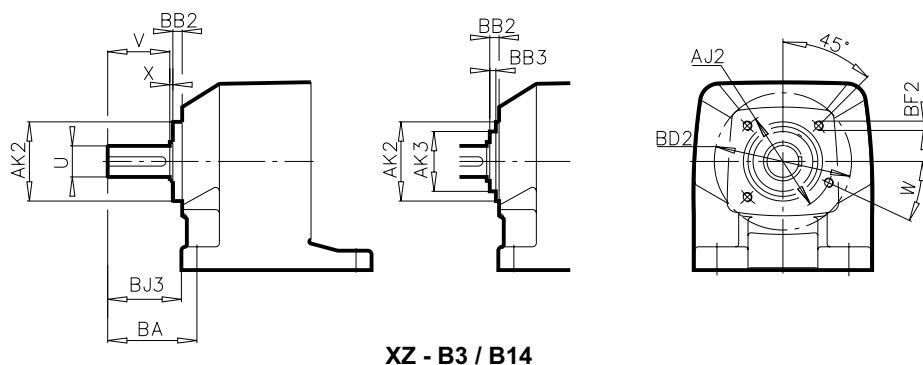
Type	Mounting dimension (flange)					Shaft dimensions				
	AJ3	AK3	BB3	BD3	BF3	U	UY	Key	V	X
SK 172 F - ...	3.15	2.441	0.20	3.86	M 8 x 0.63	0.750	0.83	3/16 * 3/16 * 1	1.57	0.08
SK 272 F - ...	3.54	2.835	0.43	4.25	M 8 x 0.63	1.000	1.11	1/4 * 1/4 * 1-1/4	1.97	0.12
SK 273 F - ...	3.54	2.835	0.43	4.25	M 8 x 0.63	1.000	1.11	1/4 * 1/4 * 1-1/4	1.97	0.12
SK 372 F - ...	3.54	2.835	0.43	4.25	M 8 x 0.63	1.000	1.11	1/4 * 1/4 * 1-1/4	1.97	0.12
SK 373 F - ...	3.54	2.835	0.43	4.25	M 8 x 0.63	1.000	1.11	1/4 * 1/4 * 1-1/4	1.97	0.12
SK 472 F - ...	4.09	3.150	0.55	5.12	M 10 x 0.79	1.250	1.36	1/4 * 1/4 * 1-5/8	2.36	0.16
SK 473 F - ...	4.09	3.150	0.55	5.12	M 10 x 0.79	1.250	1.36	1/4 * 1/4 * 1-5/8	2.36	0.16
SK 572 F - ...	4.09	3.150	0.55	5.12	M 10 x 0.79	1.375	1.52	5/16 * 5/16 * 2-1/8	2.75	0.16
SK 573 F - ...	4.09	3.150	0.55	5.12	M 10 x 0.79	1.375	1.52	5/16 * 5/16 * 2-1/8	2.75	0.16
SK 672 F - ...	4.53	3.543	0.71	5.51	M 10 x 0.79	1.375	1.52	5/16 * 5/16 * 2-1/8	2.75	0.16
SK 673 F - ...	4.53	3.386	0.71	5.51	M 10 x 0.79	1.375	1.52	5/16 * 5/16 * 2-1/8	2.75	0.16
SK 772 F - ...	5.12	4.016	0.75	6.50	M 12 x 0.79	1.625	1.79	3/8 * 3/8 * 2-1/4	3.15	0.16
SK 773 F - ...	5.12	4.016	0.75	6.50	M 12 x 0.79	1.625	1.79	3/8 * 3/8 * 2-1/4	3.15	0.16
SK 872 F - ...	6.50	5.118	0.79	8.07	M 12 x 0.79	2.125	2.35	1/2 * 1/2 * 2-5/8	3.94	0.20
SK 873 F - ...	6.50	5.118	0.79	8.07	M 12 x 0.79	2.125	2.35	1/2 * 1/2 * 2-5/8	3.94	0.20
SK 972 F - ...	7.87	6.102	0.98	9.84	M 16 x 1.18	2.375	2.65	5/8 * 5/8 * 3-1/4	4.72	0.24
SK 973 F - ...	7.87	6.102	0.98	9.84	M 16 x 1.18	2.375	2.65	5/8 * 5/8 * 3-1/4	4.72	0.24

The table is valid for Helical Gear motors and Speed Reducers.
Technical design may be subject to change. DXF files available upon request.

HELICAL SPEED REDUCER - OPTIONS



FOOT/FLANGE MOUNTING



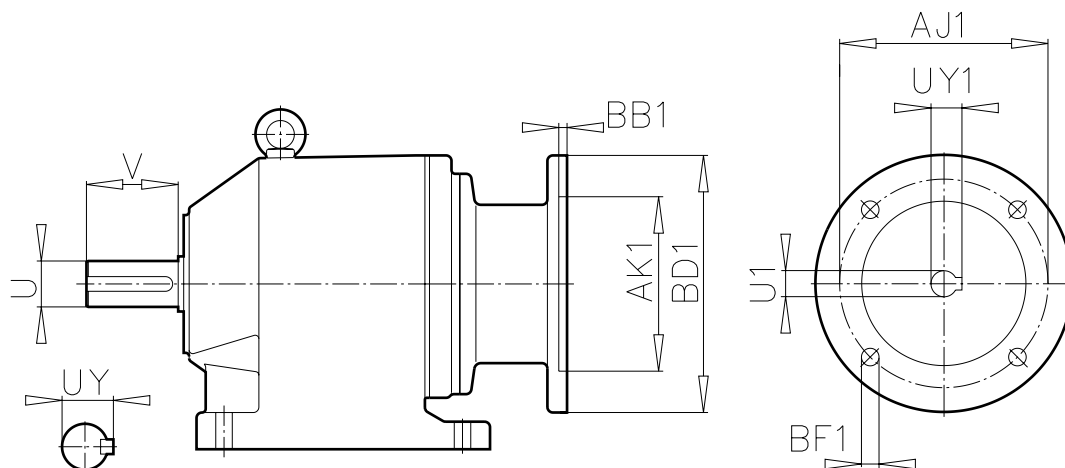
Type	Mounting dimensions B 14											Mounting dimensions B 5						Shaft dimensions		
	AJ2	AK2	AK3	BA	BB2	BB3	BD2	BF2	BJ3	W	AH2	AJ1	AK1	BA	BB1	BD1	BF1	U	V	X
SK 172 ...	3.15	2.441	--	2.28	0.32	--	4.13	M 8 x 0.51	1.79	28°	0.79	5.12	4.331	2.28	0.14	6.30	0.35	0.750	1.57	0.06
SK 272 ...	3.54	2.835	--	2.95	0.35	--	4.45	M 8 x 0.63	2.36	25°	0.98	6.50	5.118	2.95	0.14	7.87	0.43	1.000	1.97	0.12
SK 273 ...	3.54	2.835	2.283	2.95	0.35	0.24	4.13	M 8 x 0.47	2.52	25°						2.76	0.47	1/4 * 1/4 * 1-1/4		
SK 372 ...	3.54	2.835	--	2.95	0.35	--	4.45	M 8 x 0.63	2.36	25°	0.98	6.50	5.118	2.95	0.14	7.87	0.43	1.000	1.97	0.12
SK 373 ...	3.54	2.835	2.283	2.95	0.35	0.24	4.13	M 8 x 0.47	2.52	25°						2.76	0.47	1/4 * 1/4 * 1-1/4		
SK 472 ...	4.33	3.150	--	3.54	0.35	--	5.43	M10 x 0.79	2.85	28°	1.18	8.47	7.087	3.54	0.16	9.84	0.53	1.250	2.36	0.16
SK 473 ...	4.33	3.150	--	3.54	0.35	--	5.43	M10 x 0.79	2.85	28°						3.15	0.63	1/4 * 1/4 * 1-5/8		
SK 572 ...	4.33	3.150	--	3.94	0.35	--	5.43	M10 x 0.79	3.25	28°	1.18	8.47	7.087	3.94	0.16	9.84	0.53	1.375	2.75	0.16
SK 573 ...	4.33	3.150	--	3.94	0.35	--	5.43	M10 x 0.79	3.25	28°						3.15	0.63	5/16 * 5/16 * 2-1/8		
SK 672 ...	4.53	3.543	--	3.94	0.43	--	6.30	M10 x 0.79	3.15	28°	1.38	8.47	7.087	3.94	0.16	9.84	0.53	1.375	2.75	0.16
SK 673 ...	4.53	3.386	--	3.94	0.43	--	6.30	M10 x 0.79	3.15	28°						3.54	0.63	5/16 * 5/16 * 2-1/8		
SK 772 ...	5.12	4.016	--	4.53	0.47	--	6.85	M12 x 0.95	3.74	25°	1.58	10.43	9.055	4.53	0.16	11.81	0.53	1.625	3.15	0.16
SK 773 ...	5.12	4.016	--	4.53	0.47	--	6.85	M12 x 0.79	3.74	25°						3.94	0.79	3/8 * 3/8 * 2-1/4		
SK 872 ...	6.50	5.118	--	5.51	0.47	--	8.27	M12 x 0.79	4.53	25°	1.97	11.81	9.843	5.51	0.20	13.78	0.69	2.125	3.94	0.20
SK 873 ...	6.50	5.118	--	5.51	0.47	--	8.27	M12 x 0.79	4.53	25°						5.12	0.79	1/2 * 1/2 * 2-5/8		
SK 972 ...	7.87	6.102	--	6.30	0.59	--	10.24	M16 x 0.98	5.22	25°	2.36	15.75	13.780	6.30	0.20	17.72	0.69	2.375	4.72	0.24
SK 973 ...	7.87	6.102	--	6.30	0.59	--	10.24	M16 x 0.98	5.22	25°						6.30	0.79	5/8 * 5/8 * 3-1/4		

The table is valid for Helical Gearmotors and Speed Reducers.
Technical design may be subject to change. DXF files available upon request.

HELCAL SPEED REDUCER - OPTIONS



METRIC SHAFT DIMENSIONS IEC MOTOR ADAPTERS



Metric Shaft Dimensions (mm)

Size	U	UY	V	Key size	Threads
SK 172	20	22.5	40	6 x 6 x 32	M 6 x 16
SK 272 / 273	25	28	50	8 x 7 x 40	M 10 x 22
SK 372 / 373	25	28	50	8 x 7 x 40	M 10 x 22
SK 472 / 473	30	33	60	8 x 7 x 50	M 10 x 22
SK 572 / 573	35	38	70	10 x 8 x 56	M 12 x 28
SK 672 / 673	35	38	70	10 x 8 x 56	M 12 x 28
SK 772 / 773	40	43	80	12 x 8 x 70	M 16 x 36
SK 872 / 873	50	53.5	100	14 x 9 x 80	M 16 x 36
SK 972 / 973	60	64	120	18 x 11 x 110	M 20 x 42

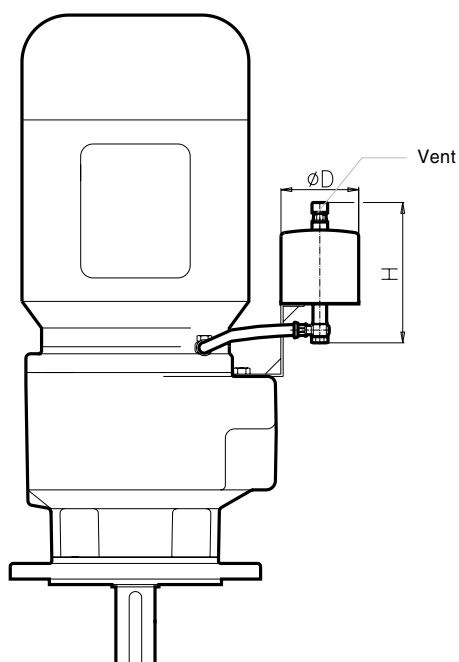
IEC Motor Adapters (mm)

Size	AJ1	AK1	BB1	BD1	BF1	U1	UY1	Key size
IEC 63	115	95	3.5	140	M 8	11	12.8	4 x 4 x 18
IEC 71	130	110	4	160	M 8	14	16.3	5 x 5 x 25
IEC 80	165	130	4	200	M 10	19	21.8	6 x 6 x 35
IEC 90	165	130	4	200	M 10	24	27.3	8 x 7 x 40
IEC 100	215	180	5	250	M 12	28	31.3	8 x 7 x 50
IEC 112	215	180	5	250	M 12	28	31.3	8 x 7 x 50
IEC 132	265	230	5	300	M 12	38	41.3	10 x 8 x 60
IEC 160	300	250	6	350	M 16	42	45.3	12 x 8 x 75
IEC 180	300	250	6	350	M 16	48	51.8	14 x 9 x 80
IEC 200	350	300	6	400	M 16	55	59.3	16 x 10 x 95

HELCAL SPEED REDUCER - OPTIONS



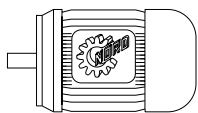
LUBRICANT EXPANSION UNIT FOR MOUNTING POSITION V1 OR V5



Gear Unit	Lubricant Expansion Unit		
	Size	D	H
SK 472 / SK 473 SK 572 / SK 573 SK 672 / SK 673 SK 772 / SK 773 SK 872 / SK 873 SK 972 / SK 973	I	100	180

The use of the lubricant expansion unit for vertical mounting positions V1 and V5 avoids oil-leakage from the ventilation plug under certain operating conditions.

If the gearbox ratio is less than 20:1 and the continuous operating time is greater than 3 hours, this unit may be supplied at NORD's discretion.



MOTOR



EXPLANATORY NOTES

MOTORS

All motors are in accordance with existing standards and regulations, such as NEMA MG1 and EN 60034, part 1, 5, 6, 7, 8, 9.

RATED VOLTAGE-RANGE

Motors to be operated on a supply according to NEMA MG1 with a tolerance of $\pm 10\%$ can be supplied for one of the following Voltage-Ranges:

Supply Voltage acc. to NEMA MG1

230 V $\pm 10\%$
 400 V $\pm 10\%$
 460 V $\pm 10\%$
 575 V $\pm 10\%$
 690 V $\pm 10\%$

TWO-SPEED MOTORS

Our two-speed motors are executed with single-winding for Dahlander connection (speed ratio 2:1) or with separate windings (speed ratios 3:1, 4:1, 6:1, 3:2).

A combination of both winding types enables the production of three-speed motors.

TEMPERATURE RISE

As specified in NEMA MG1, the motor ratings are based on continuous duty, maximum ambient temperature of 40°C at altitudes up to 3300 ft (1000 metres) above sea level.

The power obtainable in the case of other conditions is tabulated below.

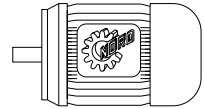
Ambient temperature [° C]	Power obtainable in % of rated value	altitude above sea level in meters feet		Power obtainable in % of rated value
40	100	1000	3300	100
45	96	1500	5000	97
50	92	2000	6600	94
55	87	2500	8300	90
60	82	3000	9900	86
		3500	11500	83
		4000	13000	80

The windings are insulation class F according to NEMA MG1.

Insulation class	Max. permissible temperature rise [K]	Max. permissible continuous temperature [°C]
F	105	155



MOTOR



EXPLANATORY NOTES

MOTOR PROTECTION

Current-controlled motor-protection must be set acc. to rated current shown on nameplate.
Operation involving high switching frequency, short term duty or large temperature-differences should be covered by direct temperature-control.

Following options are available at surcharge:

a) Thermostat (TW)

Upon reaching the limit temperature this device automatically cuts the control-circuit and only after a large drop in temperature this switch engages again.
Contact-rating: 250 V AC, 1,6 A.

b) Thermistor sensors (TF)

The built-in thermistors can only be utilized with an external tripping-device. Upon reaching the limit temperature the thermistors change their resistance suddenly. In connection with a tripping device this property is employed to monitor the motor temperature.
The relay built into the tripping-device has a make-and-break-contact which is utilized for control purposes.

Advantage: Control-device is self-monitoring, narrow switching-tolerance approx. 1-3 K1; rapid restart of drive.

Note: Do not apply voltage to thermistors

Isolation class	F	
	warn	cut out
NAT/°C	130	155

DEGREES OF PROTECTION

The standard degree of protection of the motors is IP 55.
The standard degree of protection of the brakemotors is IP 54.

If required, degrees of protection IP 56, IP 65 and IP 66 are available with surcharge.
Generally, application and ambient conditions determine the required degree of protection as well as other additional measures for outdoor duty and vertical mounting positions with motor on top (eg, V1 or V5 for helical inline units),
we recommend an execution with double fan cowl.
For further explanations, please refer to the brochure "IP - degrees of protection".

NEMA AND CSA

The standard motors meet the American "NEMA Specifications" only in terms of electrical standards,
not in terms of mechanical standards.
Motors with dimensions conforming to NEMA are available at extra price.

CSA motors are available in designs 230 / 460 V - 60 Hz or 332 / 575 V - 60 Hz.

VIK-motors are available (extra price) to conform to the technical requirements of the VIK (Combined Industrial Power Industry) dated June 1975.

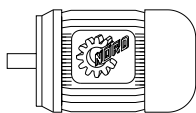
MODES OF OPERATION

All motors of the catalogue are suitable for continuous duty (S1), to EN 60034/1. For selection of motors for other duties we need following (details:

- relative cyclic duration factor
- characteristic curve over speed range
- external moment of inertia reduced to motor shaft
- details on braking

CONNECTION

The motors are suitable for direct starting. However, 3 times the rated torque and 8 times the rated current may be reached.
By Star-Delta starting these maximum values may be reduced to 1/3 (e.g. regulations of power authorities),
under the conditions that the current of the Delta-Winding corresponds with the grid.



MOTOR



THREE-PHASE MOTORS - 4-poles / 230 V / 460 V / 575 V / 60 Hz

Frame size	60 Hz													
	P_n	P_n	n_n	I_n	I_n	I_n	I_a / I_n	Code Letter	T_n	T_a / T_n	T_k / T_n	$\cos \varphi$	η	J_{mot}
	[HP]	[kW]	[RPM]	(230 V) [A]	(460 V) [A]	(575 V) [A]			[lb-in]				[%]	[lb-ft ²]
63 S/4	0.16	0.12	1700	0.88	0.44	0.37	2.45	F	5.93	2.1	2.2	0.66	52	0.00499
63 L/4	0.25	0.18	1680	1.12	0.56	0.46	2.75	E	9.38	2.1	2.2	0.71	57	0.00665
71 S/4	0.33	0.25	1710	1.56	0.78	0.6	3.10	G	12.2	2.5	2.4	0.64	63	0.0150
71 L/4	0.50	0.37	1720	1.90	0.95	0.80	3.55	F	18.3	2.45	2.6	0.69	71	0.0181
80 S/4	0.75	0.55	1710	2.70	1.35	1.12	3.55	F	27.6	2.2	2.2	0.71	72	0.0304
80 L/4	1.0	0.75	1650	3.66	1.83	1.46	3.90	G	38.2	2.2	2.3	0.74	70	0.0392
90 S/4	1.5	1.1	1660	4.84	2.42	1.94	4.45	G	57.0	2.7	2.6	0.78	73	0.0670
90 L/4	2.0	1.5	1660	6.34	3.17	2.54	4.65	G	75.9	2.55	2.5	0.80	74	0.0855
100 L/4	3.0	2.2	1705	9.0	4.50	3.6	4.90	G	111	2.3	2.6	0.81	72	0.107
100 L/40	5.0	3.7	1725	15.2	7.62	6.1	5.10	G	183	2.7	3.1	0.75	82	0.162
132 S/4	7.5	5.5	1735	19.8	9.90	7.92	5.45	G	272	2.45	2.75	0.82	81	0.553
132 M/4	10	7.5	1735	25.8	12.9	10.3	6.45	H	363	2.9	3.2	0.84	86	0.753
160 M/4	15	11	1770	38.4	19.2	15.4	6.65	H	522	2.45	3.0	0.82	88	0.95
160 L/4	20	15	1765	49	24.5	19.6	7.25	H	713	2.9	3.3	0.86	89.4	1.23
180 MX/4	25	18.5	1750	60	30.0	24.0	8.60	K	887	2.95	3.4	0.87	89	1.35
180 LX/4	30	22	1755	71	35.5	28.4	9.80	L	1052	3.4	3.7	0.87	89.4	1.35
200 L/4	40	30	1780	96	48	38.4	7.70	J	1414	2.9	3.6	0.85	92	5.70
225 S/4	50	37	1765	—	58	46.4	7.60	H	1759	3.1	3.5	0.86	93.1	7.60

For higher efficiency motor see page 86. Performance specifications are subject to change.

ABBREVIATION LEGEND

P_n	= Rated power [HP]
n_n	= Rated speed [RPM]
η	= Efficiency of motor [%]
$\cos \varphi$	= Power factor
I_n	= Rated current [AMPS]
T_n	= Rated torque [Lb-in]
T_a / T_n	= Starting torque ratio
I_a / I_n	= Starting current ratio
T_k / T_n	= Breakdown torque ratio
J_{mot}	= Inertia of motor [Lb-ft ²]

Standard efficiency. 1.15 Service factor

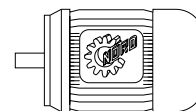
Inverter duty, TEFC
Synchronous speed 1800 rpm @ 60Hz, 4-pole
Voltages: 230 / 460 & 330 / 575 - 60 Hz, Three-phase
Continuous Duty, 40° C Ambient, up to 3300 ft Elevation
Class B temperature rise, Class F insulation



For Brakes. see page 90.



MOTOR



THREE-PHASE MOTORS - 4-poles 400 V / 50 Hz

Frame size	50 Hz											
	P_n [HP]	P_n [kW]	n_n [RPM]	I_n (400 V)* [A]	I_a / I_n	Code Letter	T_n [lb-in]	T_a / T_n	T_k / T_n	$\cos \varphi$	η [%]	J_{mot} [lb-ft ²]
63 S/4	0.16	0.12	1335	0.46	2.5	E	7.55	1.8	1.9	0.76	50.0	0.0050
63 L/4	0.25	0.18	1325	0.62	2.6	E	11.9	1.8	1.9	0.80	56.5	0.0066
71 S/4	0.33	0.25	1380	0.76	3.3	F	15.1	2.2	2.1	0.77	61.3	0.0150
71 L/4	0.50	0.37	1360	1.10	3.2	E	23.2	2.1	2.3	0.75	62.7	0.0181
80 S/4	0.75	0.55	1375	1.52	3.3	E	33.4	1.9	2.0	0.73	71.5	0.0304
80 L/4	1.0	0.75	1375	2.10	4.4	G	45.8	2.3	2.6	0.74	69.5	0.0392
90 S/4	1.5	1.1	1395	2.81	4.8	G	65.4	2.3	2.6	0.74	76.2	0.0670
90 L/4	2.0	1.5	1395	3.55	5.4	H	87.5	3.1	3.6	0.78	78.5	0.0855
100 L/4	3.0	2.2	1440	5.22	5.1	G	131	2.3	3.0	0.74	81.1	0.107
100 L/40	4.0	3.0	1415	6.54	5.4	F	178	2.5	2.9	0.73	82.7	0.160
132 S/4	7.5	5.5	1445	11.4	5.5	G	327	2.1	2.7	0.81	85.8	0.553
132 M/4	10	7.5	1445	14.8	5.5	G	436	2.5	2.8	0.84	87.0	0.753
160 M/4	15	11	1460	21.5	6.2	G	633	2.2	2.7	0.84	88.5	0.95
160 L/4	20	15	1460	28.5	6.5	H	861	2.6	3.0	0.84	90.0	1.23
180 MX/4	25	18.5	1460	35	7.7	J	1063	2.7	3.1	0.86	90.0	1.35
180 LX/4	30	22	1455	44	8.3	K	1265	3.1	3.4	0.82	90.5	1.35
200 L/4	40	30	1465	55	7.0	H	1722	2.6	3.2	0.86	91.8	5.70
225 S/4	50	37	1470	66	7.0	H	2118	2.8	3.2	0.87	92.9	7.60

* Motors 3.0 HP (2.20 kW) and below are rated 230Δ / 400Y - volts.

* Motors above 3.0 HP (2.20 kW) are rated 400Δ / 690Y - volts.

For higher efficiency motor see page 87. Performance specifications are subject to change.

ABBREVIATION LEGEND

P_n	= Rated power [HP]
n_n	= Rated speed [RPM]
η	= Efficiency of motor [%]
$\cos \varphi$	= Power factor
I_n	= Rated current [AMPS]
T_n	= Rated torque [Lb-in]
T_a / T_n	= Starting torque ratio
I_a / I_n	= Starting current ratio
T_k / T_n	= Breakdown torque ratio
J_{mot}	= Inertia of motor [Lb-ft ²]

Standard efficiency, 1.0 Service factor

Inverter duty, TEFC

Synchronous speed 1500 rpm @ 50Hz, 4-pole

Voltages: 400 - 50 Hz, Three-phase

Continuous Duty, 40° C Ambient, up to 3300 ft Elevation

Class B temperature rise, Class F insulation



For Brakes, see page 90.



MOTOR



HIGH EFFICIENCY THREE-PHASE MOTORS 4-poles / 230 V / 460 V / 575 V / 60 Hz

Frame size	60 Hz													
	P_n [HP]	P_n [KW]	n_n [RPM]	I_n (230 V) [A]	I_n (460 V) [A]	I_n (575 V) [A]	I_a / I_n	Code Letter	T_n [lb-in]	T_a / T_n	T_k / T_n	$\cos \varphi$	η [%]	J_{mot} [lb-ft ²]
80 LH/4	1.0	0.75	1750	3.88	1.94	1.5	6.0	L	36.0	4.6	4.3	0.59	82.5	0.0499
90 SH/4	1.5	1.1	1740	4.3	2.15	1.75	6.3	J	54.3	3.5	3.8	0.76	84.0	0.0855
90 LH/4	2.0	1.0	1745	6.3	3.15	2.45	6.7	K	72.2	4.3	4.5	0.71	84.0	0.0929
100 LH/4	3.0	2.2	1765	8.6	4.3	3.4	7.9	L	107	3.6	4.7	0.73	87.5	0.178
112 MH/4	5.0	3.7	1770	14.4	7.2	5.6	8.1	L	178	4.0	4.8	0.76	87.5	0.304
132 SH/4	7.5	5.5	1780	20.9	10.5	8.3	8.2	L	266	4.3	4.6	0.74	89.5	0.751
132 MH/4	10	7.5	1770	27.0	13.5	10.8	7.4	J	356	3.2	4.0	0.78	89.5	0.841
160 MH/4	15	11	1765	35.8	17.9	14.3	8.1	J	527	2.6	3.2	0.85	91.0	1.23
160 LH/4	20	15	1765	49	24.5	19.6	8.5	K	712	2.8	3.5	0.85	91.0	1.35
180 MH/4	25	18.5	1770	61	30.5	24.4	8.4	K	879	2.8	3.6	0.83	92.4	3.56
180 LH/4	30	22	1770	72	36	28.8	8.8	K	1046	3.1	3.9	0.83	92.4	4.51
200 LH/4	40	30	1770	94	47	37.6	8.3	J	1424	3.0	3.6	0.86	93.0	7.60

ABBREVIATION LEGEND

P_n	= Rated power [HP]
n_n	= Rated speed [RPM]
η	= Efficiency of motor [%]
$\cos \varphi$	= Power factor
I_n	= Rated current [AMPS]
T_n	= Rated torque [Lb-in]
T_a / T_n	= Starting torque ratio
I_a / I_n	= Starting current ratio
T_k / T_n	= Breakdown torque ratio
J_{mot}	= Inertia of motor [Lb-ft ²]

Energy efficient, 1.15 Service factor

Inverter duty, TEFC
Synchronous speed 1800 rpm @ 60Hz, 4-pole
Voltages: 230 / 460 & 330 / 575 - 60 Hz, Three-phase
Continuous Duty, 40° C Ambient, up to 3300 ft Elevation
Class B temperature rise, Class F insulation

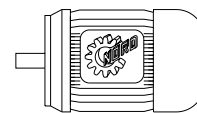


Brakes not available for energy efficient motors



MOTOR

HIGH EFFICIENCY THREE-PHASE MOTORS
4-poles 400 V / 50 Hz



Frame size	50 Hz											
	P_n [HP]	P_n [kW]	n_n [RPM]	I_n (400 V)* [A]	I_a / I_n	Code Letter	T_n [lb-in]	T_a / T_n	T_k / T_n	$\cos \varphi$	η [%]	J_{mot} [lb-ft ²]
90 SH/4	1.5	1.1	1430	2.51	5.2	H	66.1	2.8	3.1	0.75	84.0	0.0817
90 LH/4	2.0	1.5	1435	3.59	5.6	K	87.8	3.6	3.7	0.71	85.0	0.0929
100 LH/4	3.0	2.2	1465	4.88	6.9	J	129	3.3	4.0	0.74	87.5	0.178
112SH/4	4.0	3.0	1455	6.70	7.2	K	174	3.3	4.2	0.72	87.4	0.283
112 MH/4	5.4	4.0	1455	8.90	6.9	K	234	3.3	3.2	0.73	88.3	0.304
132 SH/4	7.5	5.5	1415	12.0	7.5	K	334	3.7	4.0	0.73	90.1	0.753
132 MH/4	10	7.5	1470	15.5	6.6	H	429	2.9	3.5	0.77	90.8	0.841
160 MH/4	15	11	1460	20.5	6.9	H	632	2.7	3.2	0.85	91.5	1.23
160 LH/4	20	15	1460	27.5	7.0	H	861	2.9	3.3	0.86	92.0	1.35
180 MH/4	25	18.5	1465	34.5	7.0	H	1063	2.5	3.2	0.84	92.5	3.56
180 LH/4	30	22	1465	40.5	7.3	H	1266	2.6	3.4	0.84	93.0	4.51
200 LH/4	40	30	1465	53	7.0	H	1722	2.6	3.2	0.87	93.5	7.60

* Motors 3.0 HP (2.20 kW) and below are rated 230Δ / 400Y - volts.

* Motors above 3.0 HP (2.20 kW) are rated 400Δ / 690Y - volts.

ABBREVIATION LEGEND

P_n = Rated power [HP]

n_n = Rated speed [RPM]

η = Efficiency of motor [%]

$\cos \varphi$ = Power factor

I_n = Rated current [AMPS]

T_n = Rated torque [Lb-in]

T_a / T_n = Starting torque ratio

I_a / I_n = Starting current ratio

T_k / T_n = Breakdown torque ratio

J_{mot} = Inertia of motor [Lb-ft²]

Energy efficient, 1.0 Service factor

Inverter duty, TEFC

Synchronous speed 1500 rpm @ 50Hz, 4-pole

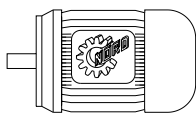
Voltages: 400 - 50 Hz, Three-phase

Continuous Duty, 40° C Ambient, up to 3300 ft Elevation

Class B temperature rise, Class F insulation



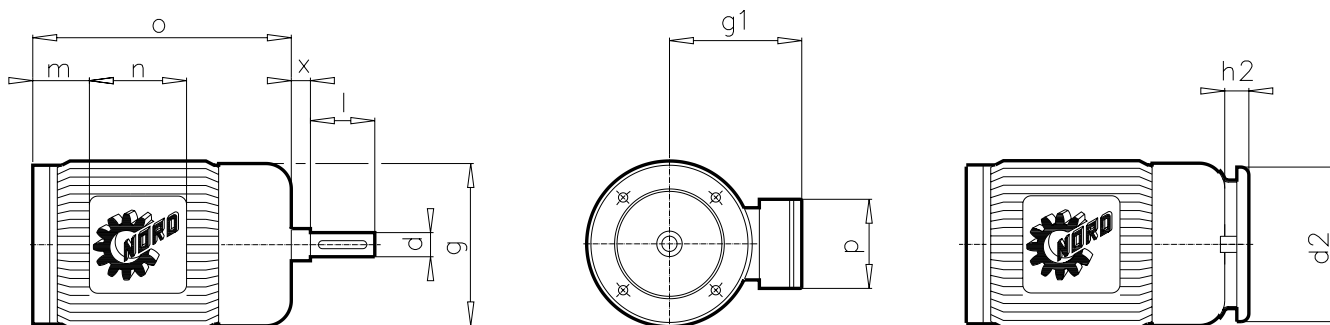
Brakes not available for energy efficient motors



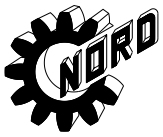
MOTOR



MOTOR DIMENSIONS - THREE PHASE MOTORS

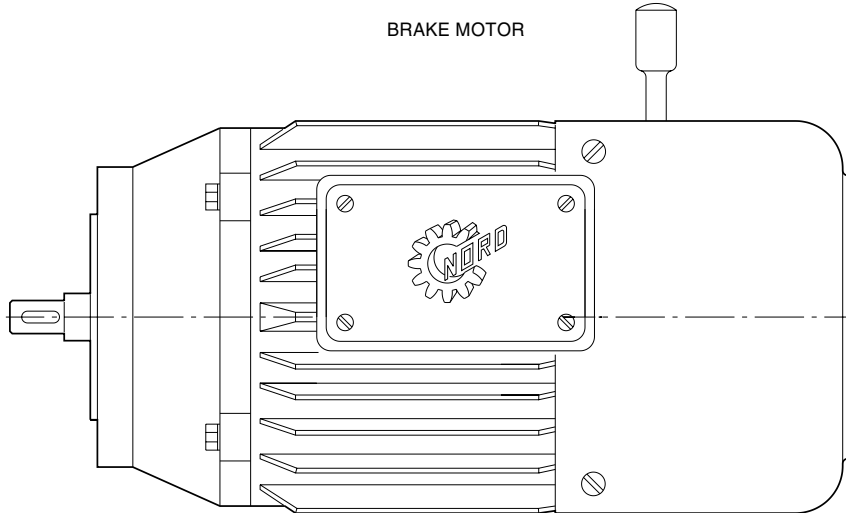


Motor frame size	Dimensions										
	g	g1	m	n	o	p	d	l	x	d2	h2
63 S + L 63 S + L (Bre)	5.12	4.33	0.47	3.94	7.40	3.94	0.43	0.91	0.16	4.92	1.22
	5.12	4.65	0.55	5.20	9.61	3.43	0.43	0.91	0.14	4.76	0.47
71 S + L 71 S + L (Bre)	5.71	4.68	0.79	3.94	8.39	3.94	0.43	0.91	0.08	4.29	1.14
	5.71	5.00	0.87	5.20	10.71	3.43	0.43	0.91	0.14	5.35	0.51
80 S + L / LH 80 S + L / LH (Bre)	6.50	5.51	0.87	4.49	9.09	4.49	0.55	1.18	0.32	4.92	1.02
	6.50	5.55	0.95	6.02	11.81	4.25	0.55	1.18	0.20	6.06	0.63
90 S + L / SH + LH 90 S + L / SH+LH (Bre 10+20) 90 S + L / SH + LH (Bre 40)	7.28	5.71	1.02	4.49	10.75	4.49	0.75	1.58	0.35	6.30	1.34
	7.28	5.75	1.10	6.02	13.70	4.25	0.55	1.18	0.32	6.85	0.63
	7.28	5.75	1.10	6.02	13.70	4.25	0.75	1.58	0.32	6.85	0.63
100 L + L/40 / LH 100 L + L/40 / LH (Bre)	7.99	6.06	1.26	4.49	12.05	4.49	0.95	1.97	0.24	6.30	1.34
	7.99	6.18	1.34	6.02	15.63	4.25	0.95	1.97	0.39	7.56	0.71
112 MH 112 MH (Bre)	8.98	6.54	1.61	4.49	12.83	4.49	0.95	1.97	0.16	7.09	1.61
	8.98	6.58	1.69	6.02	16.69	4.25	0.95	1.97	0.39	8.50	0.71
132 S + M / SH + MH 132 S + M / SH + MH (Bre)	10.47	7.64	2.17	4.80	16.18	4.80	1.26	3.15	0.71	8.66	1.81
	10.47	7.60	1.85	7.28	20.39	5.47	1.26	3.15	0.39	10.04	0.83
160 M + L / MH + LH 160 M + L / MH + LH (Bre)	12.60	9.21	3.07	6.50	19.13	6.50	1.50	3.15	0.91	9.84	2.09
	12.60	9.21	3.07	6.50	25.71	6.50	1.50	3.15	0.75	12.09	0.98
180 M + L / MH + LH 180 M + L / MH + LH (Bre)	14.09	10.20	4.45	5.20	23.70	5.98	1.89	4.33	0.91	9.84	2.09
	14.09	10.20	3.86	6.38	27.84	6.38	1.89	4.33	0.91	9.84	2.09
200 L / LH 200 L / LH (Bre)	15.67	12.05	4.33	7.56	27.09	10.24	2.17	4.33	0.67	13.39	3.15
	15.67	12.05	4.33	7.56	33.54	10.24	2.17	4.33	0.67	15.28	1.58
225 S 225 S / (Bre)	15.67	12.05	4.33	7.56	27.09	10.24	2.17	4.33	0.67	13.39	3.15
	15.67	12.05	4.33	7.56	33.54	10.24	2.17	4.33	0.67	13.39	3.15

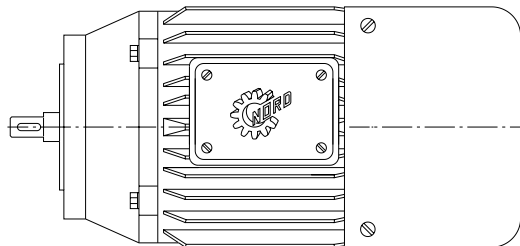


BRAKES

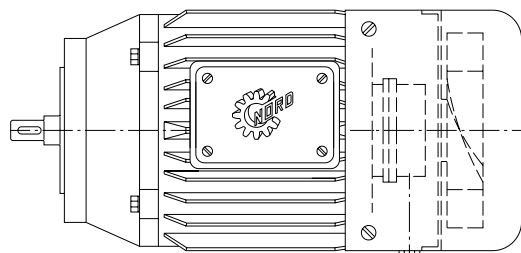
BRAKE MOTOR

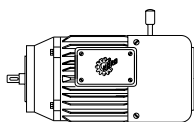


OVERRUNNING CLUTCH AND BACKSTOP



INCREMENTAL ENCODER AND FORCED VENTILATION)





BRAKES



BRAKE MOTORS

The motors listed in this catalogue can be modified to brake motors by adding a spring loaded single-disc brake.

Following combinations are possible:

Frame size	Motor length extended by approx [IN]	Braking torque (= Brake size) [Nm] (LB-FT)									
63 S + L	2.21	5 (4)	10 (7)								
71 S + L	2.28	5 (4)	10 (7)								
80 S	2.72	5 (4)	10 (7)	20 (15)							
80 L	2.72	5 (4)	10 (7)	20 (15)							
80 L/40	2.72		10 (7)	20 (15)							
90 S	2.95		10 (7)	20 (15)	40 (30)						
90 L	2.95		10 (7)	20 (15)	40 (30)						
90 L/40	2.95			20 (15)	40 (30)						
100 L	3.58			20 (15)	40 (30)	60 (45)					
100 L/40	3.58			20 (15)	40 (30)	60 (45)					
132 S	4.21				60 (45)	100 (75)					
132 M	4.21				60 (45)	100 (75)	150 (110)				
132 M/40	4.21				60 (45)	100 (75)	150 (110)				
160 M + L	6.58					100 (75)	150 (110)	250 (185)			
180 M + L	4.13							250 (185)	400 (295)		
200 L	6.46							250 (185)	400 (295)		
225 S	6.46								400 (295)	800 (590)	
Add. weight net. approx. LBS		2.2	3.3	5.5	8.8	13.2	19.8	33	53	77	132

Bold printed brake torque = Standard items

Example for ordering: **SK 472 - 80 S/4 BRE 10**

As can be seen from the above table each motor frame is available with various brake sizes.

For normal applications we recommend sizing the brake to 1,5 - 2 time, the rated torque of the motor.

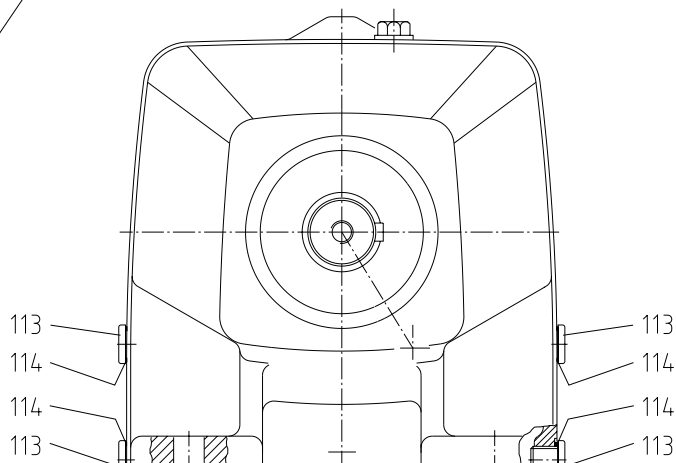
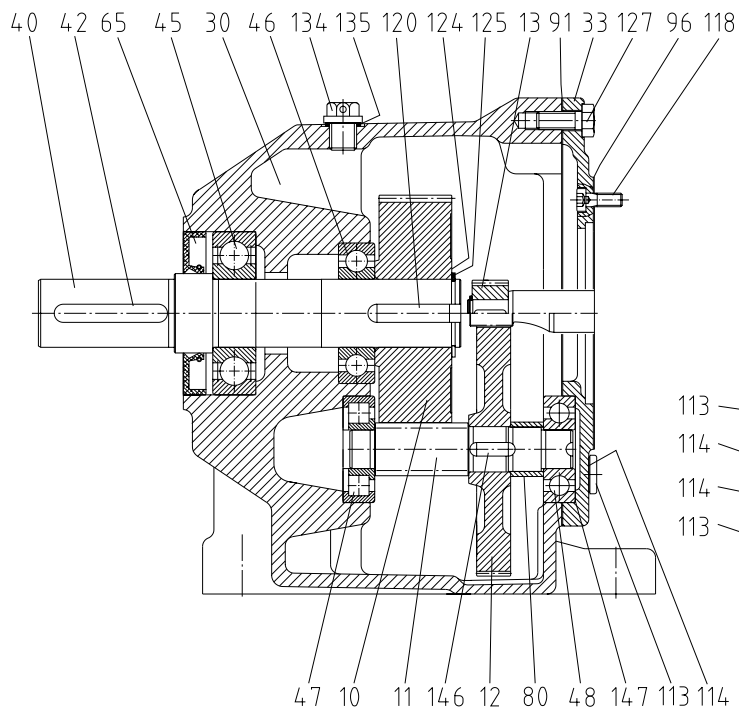
For special applications e.g. lifting gear etc. it may be necessary to increase this to 3 times the rated torque of the motor.

For other applications it may be recommended to reduce the brake torque e.g. for a Mass-Acceleration-Factor of $m_{af} \geq 3$.

If fairly large masses have to be stopped, we recommend the use of brakes with sufficient capacity.



GENERAL PARTS LIST

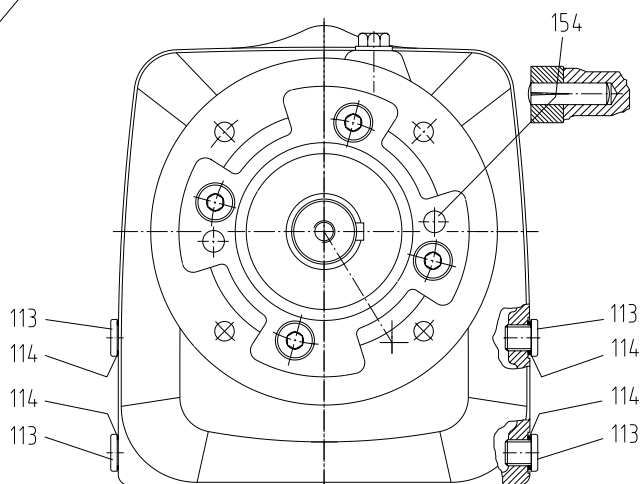
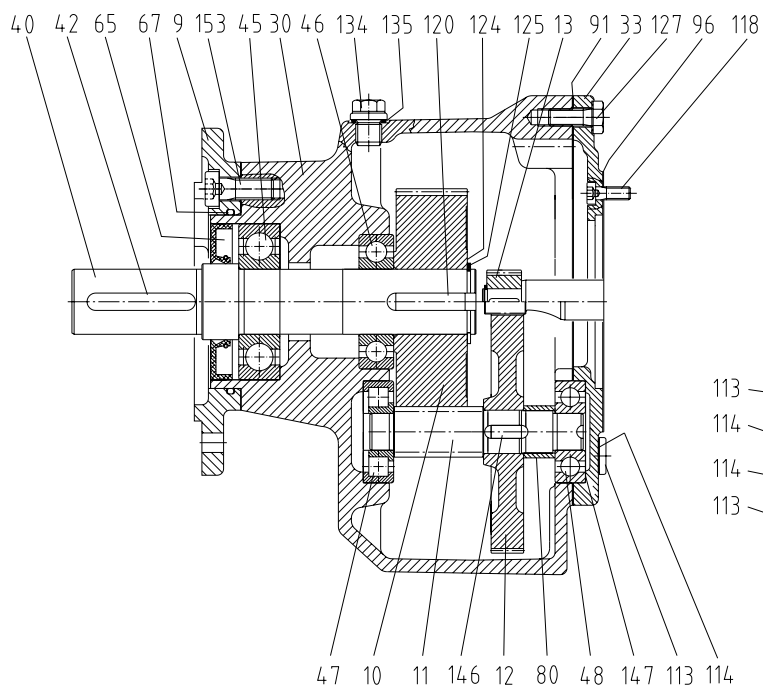


SK 172 ... - SK 972 ...

- | | |
|----|----------------------|
| 9 | Flange |
| 10 | Driven gear |
| 11 | Pinion shaft |
| 12 | Driving gear |
| 13 | Driving pinion |
| 30 | Gear case |
| 33 | Gearbox cover |
| 40 | Output shaft |
| 42 | Key |
| 45 | Output shaft bearing |

- | | |
|-----|----------------------|
| 46 | Output shaft bearing |
| 47 | Pinion shaft bearing |
| 48 | Pinion shaft bearing |
| 65 | Shaft seal |
| 67 | O-Ring |
| 80 | Spacer |
| 91 | Seal |
| 96 | Seal |
| 113 | Drain plug |
| 114 | Seal |

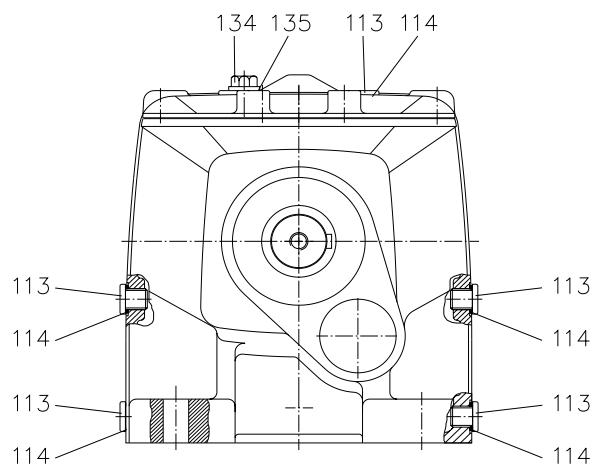
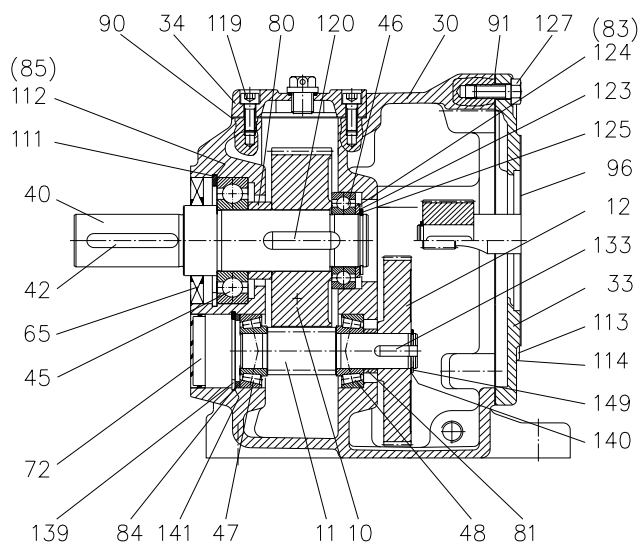
- | | |
|-----|-------------------|
| 118 | Bolt |
| 120 | Key |
| 124 | Shim |
| 125 | Snap ring |
| 127 | Bolt |
| 134 | Vent plug |
| 135 | Seal |
| 146 | Key |
| 147 | Shim |
| 153 | Bolt |
| 154 | Grooved dowel pin |



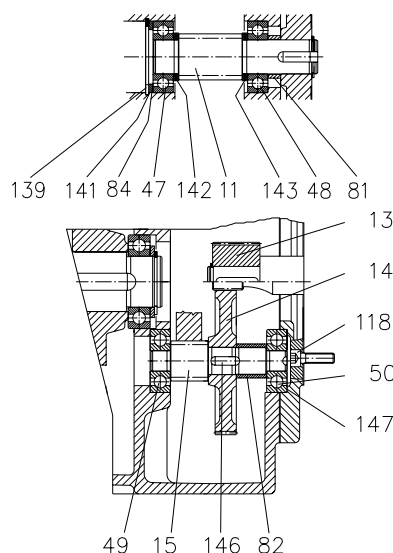
SK 172 F ... - SK 972 F ...



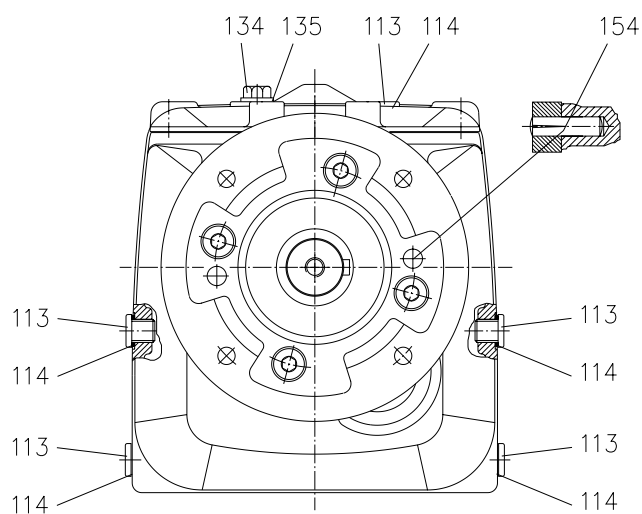
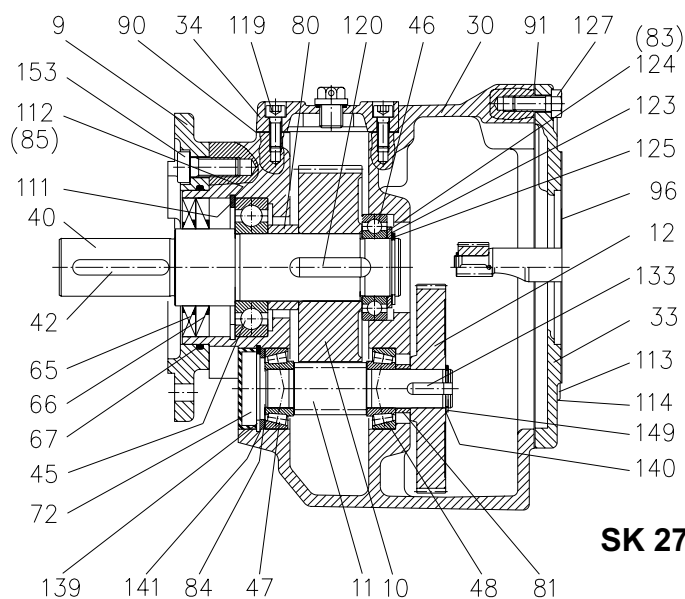
GENERAL PARTS LIST



SK 273 ... - SK 973 ...



9	Flange	65	Shaft seal	119	Bolt
10	Driven gear	66	Shaft seal	120	Key
11	Pinion shaft	67	O-Ring	123	Supporting disc
12	Driving gear	72	Locking cap	124	Shim
13	Driving pinion	80	Spacer	125	Snap ring
14	Driving gear	81	Spacer	127	Bolt
15	Pinion shaft	82	Spacer	133	Key
30	Gear case	83	Supporting disc	134	Vent plug
33	Gearbox cover	84	Supporting disc	135	Seal
34	Gearcase cover	85	Supporting disc	139	Snap ring
40	Output shaft	90	Seal	140	Shim
42	Key	91	Seal	141	Shim
45	Output shaft bearing	96	Seal	142	Supporting disc
46	Output shaft bearing	111	Snap ring	143	Supporting disc
47	Pinion shaft bearing	112	Shim	146	Key
48	Pinion shaft bearing	113	Drain plug	147	Shim
49	Pinion shaft bearing	114	Seal	149	Snap ring
50	Pinion shaft bearing	118	Bolt	153	Bolt
				154	Grooved dowel pin

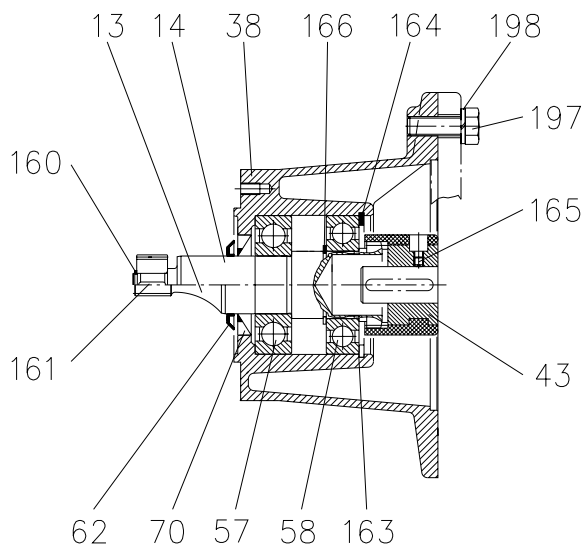


SK 273 F ... - SK 973 F ...

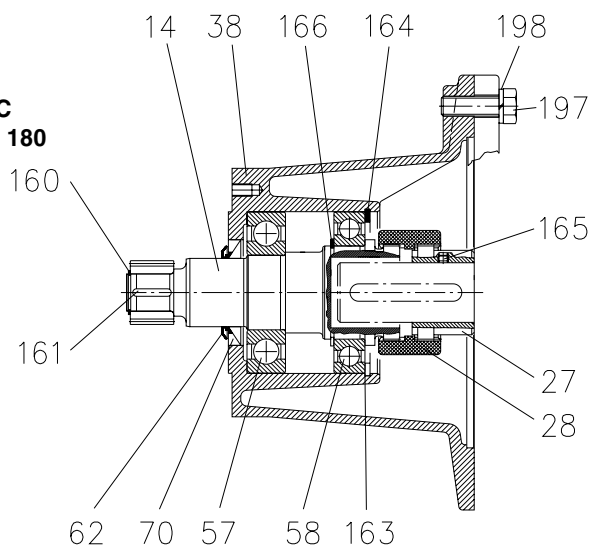


GENERAL PARTS LIST

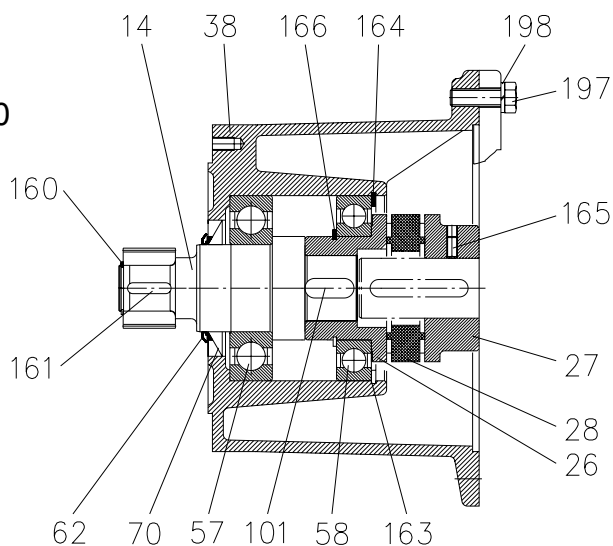
**56C - 180 TC
IEC 63 - IEC 112**



**180 TC - 280 TC
IEC 132 - IEC 180**



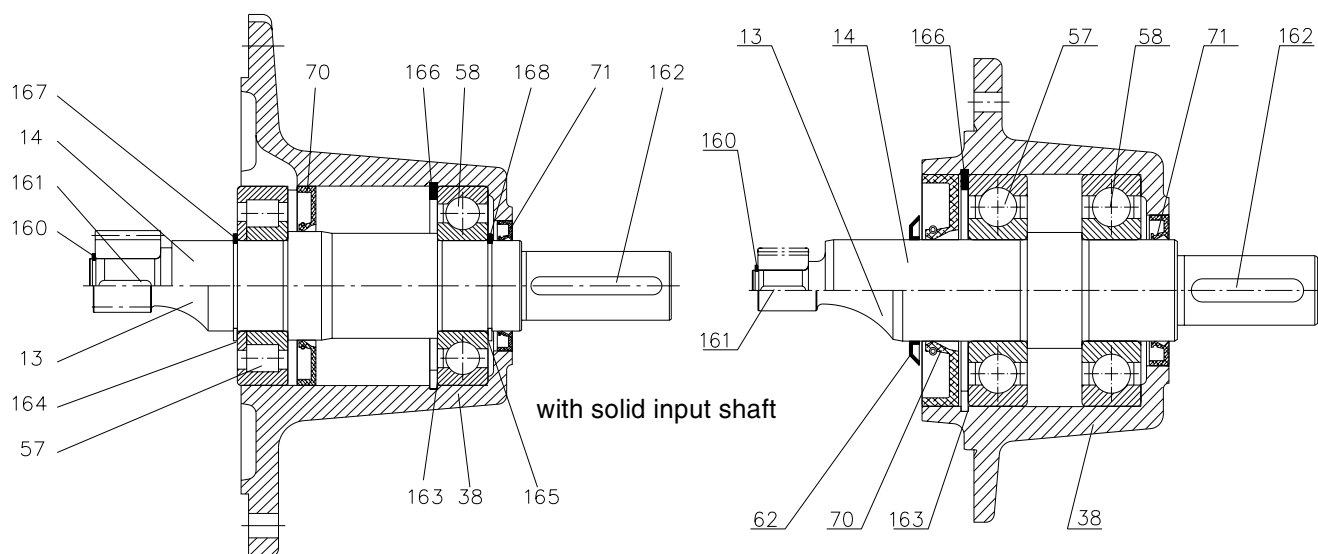
IEC 200



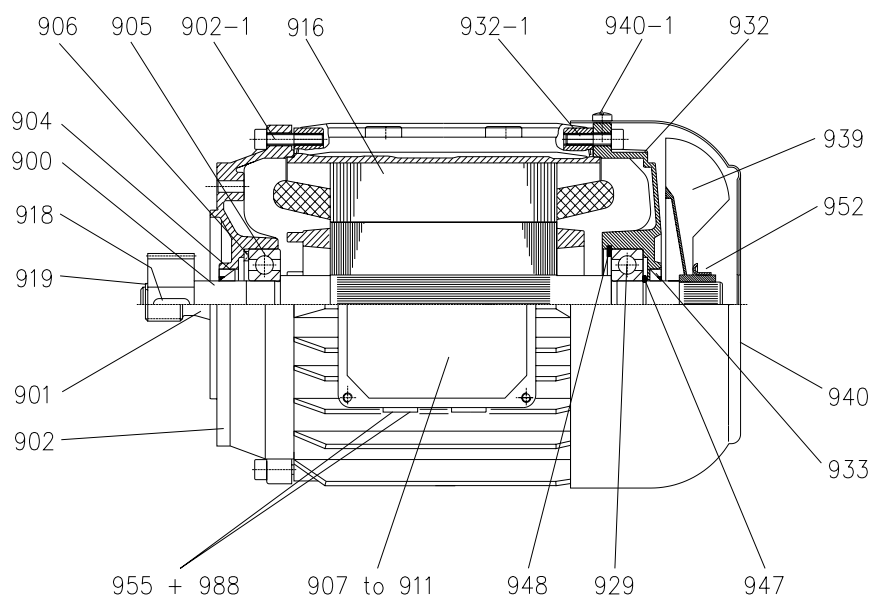
- | | |
|-----|----------------------|
| 13 | Clutch pinion shaft |
| 14 | Clutch shaft |
| 26 | Coupling |
| 27 | Coupling |
| 28 | Coupling |
| 38 | IEC Adapter |
| 43 | Coupling |
| 57 | Clutch shaft bearing |
| 58 | Clutch shaft bearing |
| 62 | Oil flinger |
| 70 | Shaft seal |
| 101 | Key |
| 160 | Snap ring |
| 161 | Key |
| 163 | Shim |
| 164 | Snap ring |
| 165 | Set screw |
| 166 | Snap ring |
| 197 | Bolt |
| 198 | Spring washer |



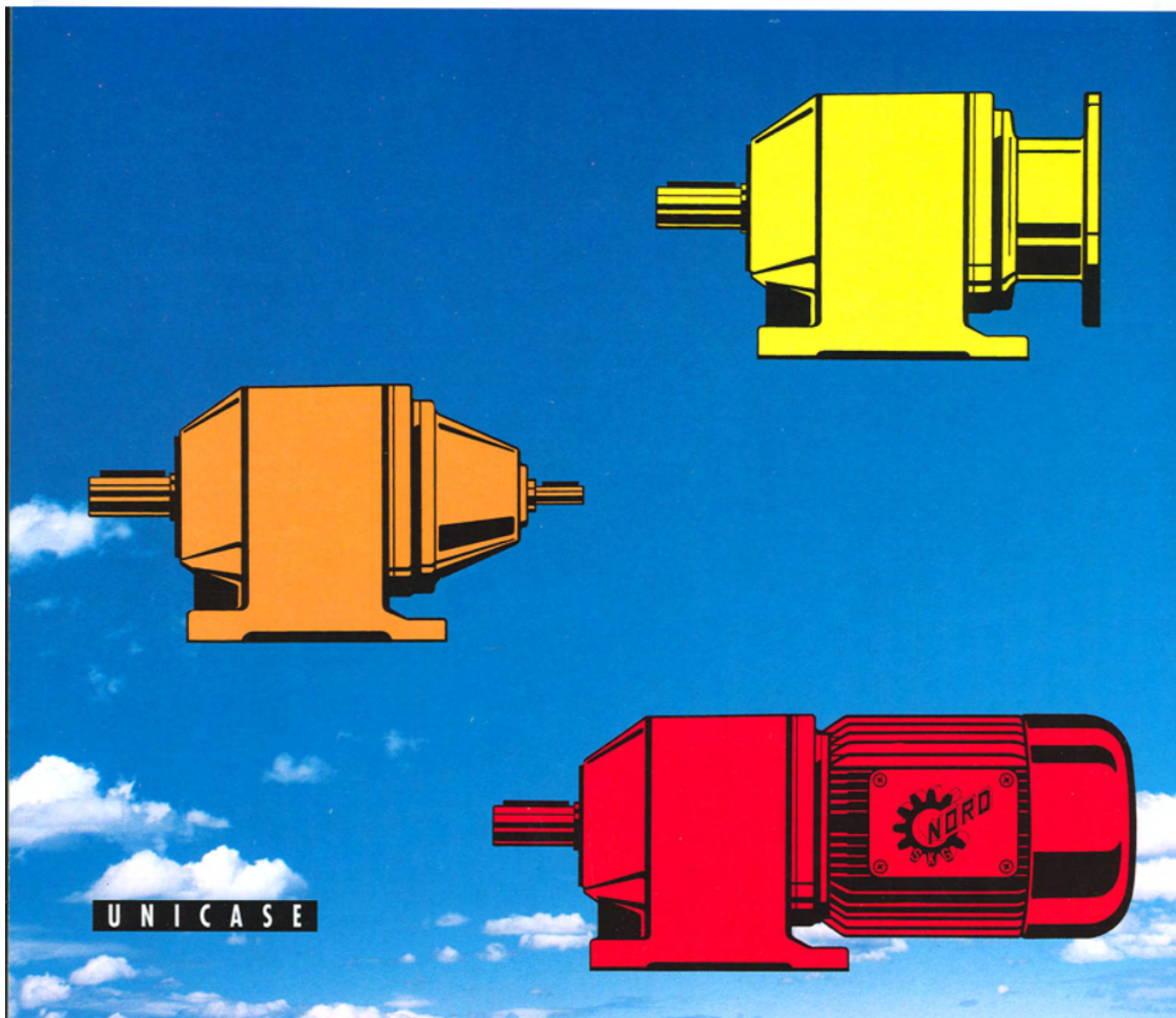
GENERAL PARTS LIST



13	Clutch pinion shaft	161	Key
14	Clutch shaft	162	Key
38	IEC Adapter	163	Shim
57	Clutch shaft bearing	164	Shim
58	Clutch shaft bearing	165	Shim
70	Shaft seal	166	Snap ring
71	Shaft seal	167	Snap ring
160	Snap ring	168	Snap ring



900	Rotor with shaft, plain
901	Rotor with shaft, gearcut
902	End shield B
902-1	Bolt
904	Shaft seal
905	Bearing A
906	Bearing shim
907	Terminal box frame
908	Terminal box cover
909	Terminal box frame gasket
910	Terminal box cover gasket
911	Terminal board
916	Stator case
918	Key
919	Snap ring
929	Bearing B
932	End shield B
932-1	Bolt
933	Shaft seal
939	Fan
940	Fan cover
940-1	Oval flat-head screw
947	Snap ring
948	Snap ring
952	Spacer
955	Plug
988	Seal



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