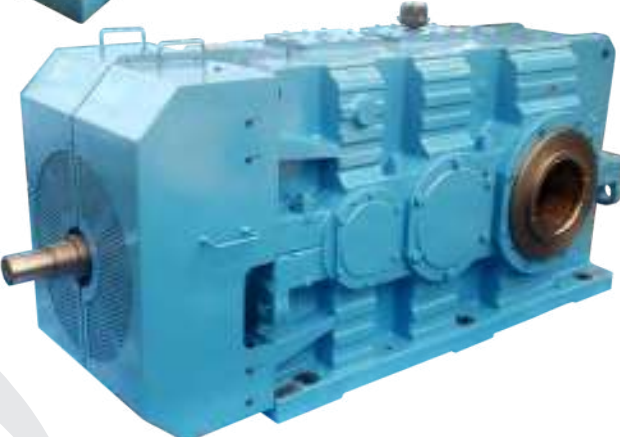


ELECON

EON Series

Eternal Excellence



Catalogue No.: XXXEECL/XXXXX



www.elecon.com



WORLD'S MOST TECHNOLOGICALLY ADVANCED GEAR MANUFACTURING FACILITY

BHANUBHAI MEMORIAL CENTRE OF EXCELLENCE (BMCE)

In the last six decades, Elecon have conducted intensive research in gear technology and manufacturing techniques. We have developed a variety of products in the transmission industry from worm gears to helical, from planetary to variable speed fluid couplings. This development has demanded a significant investment in manufacturing capability from gear cutting right through to heat treatment and profile grinding. This new plant has the capacity to manufacture sufficient helical gears to produce 1000 assembled gear units per month.

This plant is a tribute to our founding Chairman, Lt. Shri Bhanubhai Patel, who wanted to remain "Always a step ahead in technology"



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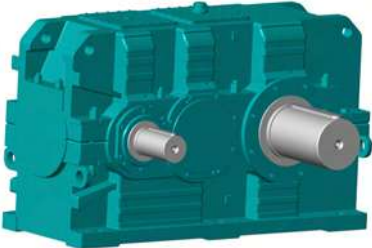
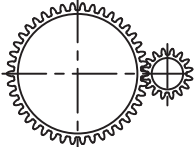
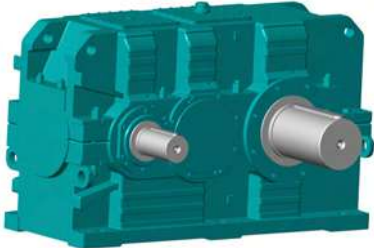
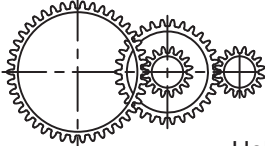
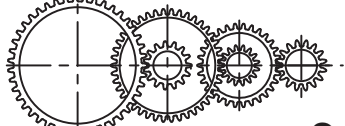

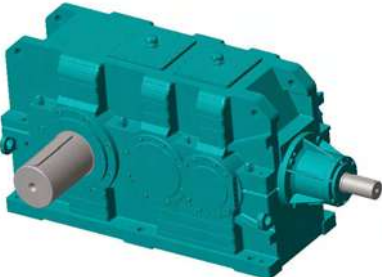
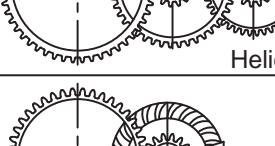
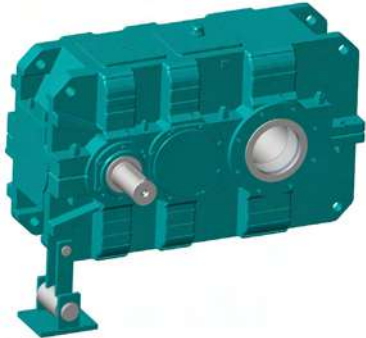
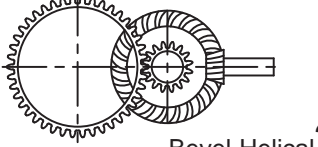
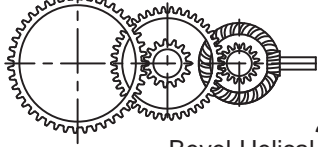
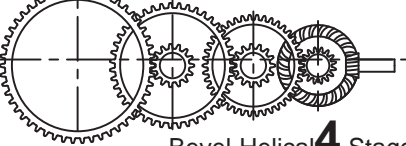
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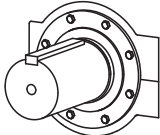
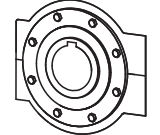



S

3

26

H

Gear Unit Type	Number of Stages	Size	Gear Unit Mounting		
<p>Helical</p>  <p>S</p>	 <p>Helical 1-Stage</p>	<p>26</p> <p>27</p>	<p>Horizontal</p> 		
	 <p>Helical 2-Stage</p>	<p>28</p> <p>29</p>			
	 <p>Helical 3-Stage</p>	<p>30</p> <p>31</p>			
	 <p>Helical 4-Stage</p>	<p>32</p>			
	<p>Bevel-Helical</p>  <p>K</p>	 <p>Bevel-Helical 2-Stage</p>		<p>33</p> <p>34</p>	<p>Torque Arm</p> 
		 <p>Bevel-Helical 3-Stage</p>		<p>35</p> <p>36</p>	
		 <p>Bevel-Helical 4-Stage</p>		<p>37</p> <p>38</p>	
		 <p>Bevel-Helical 5-Stage</p>		<p>39</p>	

N	1	A	0	0	0500	11
Type of Output Shaft	Type of Gear-Case	Attachments	Type of Cooling	Type of Lubrication	Nominal Ratio * 10	Shaft Attangement (Handing)
N -Solid Shaft 	1 -Cast Iron Gearcase	A -None	0 -None	0 -Splash 3 -Forced 9 -Special		
Hollow Shaft With K eyway 	2 -SG Iron Gearcase		1 -Single Fan			
Hollow Shaft With shrink D isc 	3 - Fabricated Steel Gearcase	B -Backstop	2 -Double Fan			
Hollow Shaft With S pline 	8 -Semi Special Gearcase	C -RTD	3 -Cooling Coil			
F lange Shaft 	9 -Special Gearcase		D -Backstop +RTD			
			5 -Double Fan + Cooling Coil			
			6 -Oil Heater			
			9 -Special			

Characteristic of Gear Unit

Overview

The EON series of helical and bevel helical gear units is designed to Elecon's proven quality standards. These quiet running units provide exceptional levels of performance, versatility and life expectancy to meet the demanding requirements of modern industry.

Elecon EON Series offers a comprehensive range of right angle and parallel shaft combinations with ratios to suit market requirement. Both solid and hollow output shaft combination are available including keyed, keyless including double extended output shaft.

Technical

Elecon's EON series range is designed to balance thermal & mechanical ratings with bearing life to ensure the unit has the best optimal performance.

Gear case have been optimized to reduce weight & increase stiffness ensure superior power to weight ratio. The horizontal split case design makes for simple inspection & maintenance.

Quality & Testing :

Elecon utilize state-of-the art gear & CMM inspection machine which ensures elecon's product are of the highest quality & robustness. All external gears are ground. Elecon offers No-Load testing at assembly line end.



Selection of Gear:

Single stage

Helical Gear

$i_N = 2$ to 5.6

Double stage

Helical Gear

$i_N = 6.3$ to 22.4

Triple stage

Helical Gear

$i_N = 22.4$ to 100

Quadruple stage

Helical Gear

$i_N = 100$ to 400

Double stage

Bevel Helical Gear

$i_N = 5$ to 12.5

Triple stage

Bevel Helical Gear

$i_N = 12.5$ to 80

Quadruple stage

Bevel Helical Gear

$i_N = 80$ to 355

General Information





The following items are absolutely to be observed!

1. The weight of gearbox are mean values and not strictly binding.
2. Prior to commissioning, the operating instructions must be observed. The gear units are delivered ready for operation but without oil filling.
3. Oil quantities given are guide value only. The exact quantity of oil depends on the marks on the oil level dipstick.
4. The oil viscosity has to correspond to the data given on the name plate.
5. Approved lubricants should be used only. (Refer operating instruction manual)
6. The Gear case housings are protected against corrosion.
7. Rating calculations are as per DIN-3990.
8. Foundation bolts are minimum property class-8.8.
9. Allowable vibration limits is generally as per ISO 10816
10. Allowable noise level is 85 ± 2 dB.
11. Modification of dimensions reserved.
12. Shaft ends with keys according to DIN 6885, part 1, Shape A.
13. Shaft centering according to DIN 332, shape DS (with thread)
14. Tolerance field for shaft ends ISO fit, details refer separate page.

Standard Gearbox includes:

1. Oil dipstick
2. Breather plug
3. Lifting provision
4. Oil filling and drain plug
5. RTD provisions
6. Shaft End Key

Symbols used:

1. Oil dipstick 
2. Breather 
3. Drain plug 
4. Oil filling 

Selection of Gear Unit

1. Determination of gear unit type and size:-

1.1 Find the transmission ratio

$$i_N = n_1/n_2$$

1.2 Determine nominal power rating of the gear unit

$$P_N \geq P_e \times f$$

1.3 Checking starting torque

$$\frac{M_K * n_1}{P_N * 9550} < 2.5$$

Gear unit sizes and number of reduction stages are given in rating tables depending on i_N and P_N

1.4 Check whether the actual ratio i as per tables on Pages 39-40

2. Determination of required thermal capacity:-

2.1 Gear unit without additional cooling when

$$P_e \leq P_1 \times F_w$$

2.2 Gear unit with fan possible when

$$P_e \leq P_2 \times F_w$$

2.3 Gear unit with built-in cooling coil possible when

$$P_e \leq P_3 \times F_w$$

2.4 Gear unit with built-in cooling coil & fan when

$$P_e \leq P_4 \times F_w$$

2.5 Gear unit with external oil cooler when

$$P_e \geq P_4 \times F_w$$

i_N = Nominal transmission ratio

n_1 = Input speed (rpm);

n_2 = Output speed (rpm);

P_N = Nominal gear box rating (kW) (see power table:)

P_e = Absorbed power of the connected machine (kW)

f = Service factor = $f_1 \times f_2$ (from table 1, 2 & 3)

M_K = Starting torque or max. Input torque (Nm)

t = Ambient temperature (°C)

E_D = Running period (%), e.g. ED = 80%

P_1 = Thermal capacity without additional cooling at $t = 25$ °C; $E_D = 100\%$

P_2 = Thermal capacity with fan at $t = 25$ °C; $E_D = 100\%$

P_3 = Thermal capacity with built-in cooling coil at $t = 25$ °C; $E_D = 100\%$

P_4 = Thermal capacity with built-in cooling coil & fan at $t = 25$ °C;

$E_D = 100\%$

$F_w = B_1 \times B_2 \times B_3 \times B_4 \times E_D$ (Table 4/5/6/7/8)

Calculation Example

Prime Mover

Electric Motor = 600 kW
 Motor Speed $n_1 = 1500$ RPM
 Max. starting torque $M_k = 7370$ Nm

Gear Unit Design

Bevel-Helical gear unit

Driven Machine

Heavy rubber-belt conveyor $P_e = 550$ kW
 Speed $n_2 = 60$ RPM
 Duty = 12 h/day
 Starts = 1 per hour
 Running duration per hour, $E_D = 100\%$
 Ambient temperature = 40°C
 Wind velocity ≤ 1.4 m/s
 Altitude = Sea Level

Determination of gear unit type and size:-

- 1.1 Calculation of transmission ratio

$$i_N = \frac{n_1}{n_2} = \frac{1500}{60} = 25 : 1$$

Selected gearbox type is K3, Triple reduction bevel helical unit

- 1.2 Determination of the gear size

Operating factor "f" from table 1, 2 & 3 = 1.5
 Required nominal gearbox rating

$$P_N = P_e \times f \\ = 550 \times 1.5 \\ = 825 \text{ kW}$$

From power table select K3 gearbox size = 26 with

$$P_N = 951 \text{ kW} \geq 550 \text{ kW} \times 1.5 = 825 \text{ kW}$$

- 1.3. Checking starting torque

$$\frac{(M_k \cdot n_1)}{(P_N \cdot 9550)} < 2.5 = \frac{(7370 \cdot 1500)}{(951 \cdot 9550)} = 1.21 < 2.5$$

Checking Heating effects

- 2.1 Gear unit without additional cooling

From table 4/5/6/7/8,

$$F_w = 0.83 \times 1 \times 1.15 \times 1 \times 1 \\ = 0.95$$

$$P_e \leq P_1 \times F_w$$

$$\text{As } 550 > 231.8 \text{ (} 244 \cdot 0.95 \text{)}$$

- 2.2 Gear unit with fan cooling

From table 4/5/6/7/8,

$$F_w = 0.87 \times 1 \times 1.15 \times 1 \times 1 \\ = 1.0$$

$$P_e \leq P_2 \times F_w$$

$$\text{As } 550 > 431 \text{ (} 431 \cdot 1.0 \text{)}$$

- 2.3 Gear unit with built-in cooling coil

From table 4/5/6/7/8,

$$F_w = 0.87 \times 1 \times 1.15 \times 1 \times 1 \\ = 1.0$$

$$P_e \leq P_3 \times F_w$$

$$\text{As } 550 < 708 \text{ (} 708 \cdot 1.0 \text{)}$$

Selected Gearbox : K3-26A, Ratio - 25:1 And requires built-in cooling coil

Service Factors

Table - 1		Load parameters					
Driven machines		Driven machines		Driven machines		Driven machines	
Bucket chain excavators	S*	Blowers, Fans, Ventilators		Foodstuffs machines		Pipe straightening machines	M**
Travelling gear		Axial blowers	M	Filling machines	G	Roller gear beds	
---Caterpillar track	S*	Rotary piston blowers	M	Kneading machines	M	---Light	M**
---Rail	M	Large ventilators (mining)	M	Packing machines	G	---Heavy	S**
Bucket-wheel stacker	M*	Cooling tower fans	***	Weighing machines	M	Shears	
Bucket wheels		Radial blowers	M	Sugarcane crushers	M**	---Plates	S**
---Clearing	S*	Induced draft fans	M	Sugarcane mills	S**	---Wire	M**
---Coal	S*	Impeller blowers	G	Sugarcane cutters	M**	---Billet	S**
---Lime	S*	Turbo blowers	G	Sugar-beet cutters	M	---Cropping	S**
Cutter heads	S*	Centrifugal blowers	G	Paper machines		---Plate trimming	M**
Slewing machines	M*	Generators		Couchers	S**	Winding turret	M**
Suction pumps	M*	Generators, under uni. load	G	Glazing cylinders	S**	Winding tractor	M**
Cable drums	M	Welding generators	***	Calenders	M**	Continuous casting plants	S**
Winches	M	Rubber and plastics		Mixers	M	Shifting device	S
Winches	M	Extruders		Presses		Roller adjusting device	M
Mining, Rock, Earth		---Rubber	S**	---Glue	S**	Water recycling machine	
Concrete mixer	M	---Plastics	M**	--Wet	S**	Thickeners	M
Crushers	S*	Calenders	M**	--Suction	S**	Gyroscopic ventilators	M
Briquetting presses	H	Kneading machines, rubber	S**	Suction rollers	S**	Mixers	M
Rotary kilns	S**	Mixers	M**	Drying cylinders	S**	Water screw	M
Pneumatic sifters	M*	Mills, rubber	M**	Pumps		Vacuum filter presses	M
Clay mixers	M	Rolling mills, rubber	S**	Proportioning pumps	M	Rate/screen drives	G
Chemical industry		Wood-working machinery		Piston pumps			
Mixers	M	Decorticating drums	S	- U < 1:100	S		
Agitators		Planing machines	M	- U > 1:100 - 1:200	M**		
---Pure liquids	G	Saw frames	M	Centrifugal pumps			
---Liquids and solids	M	Iron and steel industry		Light liquids	G		
Liquids with various density	M	Foundry crane (hoist gear)	S**	- Viscous liquids	M		
Rotary dryer	M	Converters	***	Compression pumps	S		
Centrifuges		Slag cars	G***	Plunger pumps	S**		
---Light	G	Sintering belts	M**	Sand pumps	M**		
---Heavy	M	Crushers	S**	Machines for textile industry			
Petroleum industry		Torpedo mixers	***	Bobbin winding machines	M		
Drilling pumps	***	Car tipper	S	Printing machines	M		
Rotary kilns	M	Cranes		Dyeing machines	M		
Filter presses	M**	Luffing gear	G*	Tan-liquor vessels	M		
Pipeline pumps	M**	Travelling gear	M*	Calenders	M		
Scavenging pumps	M**	Hoisting gear	M*	Willowing machines	M		
Conveying plants		Slewing gear	M*	Drying machines	M		
Uniform load		Winches	G	Looms	M		
Bucket conveyors	G	Metal working		Compressors			
Roasting furnace conveyor	G	Floding presses	S	Rotary piston compressor			
Assembly line belts	G	Plate bending machines	M**	- U < 1:100	S		
Band conveyors	G	Plate straightening presses	S	- U > 1:100 - 1:200	M		
Overhead conveyors	G	Eccentric presses	S	Centrifugal compressors	M		
Chain conveyors	G	Hammers	S**	Turbo compressors	M		
Apron conveyors	G	Planing machines	S	Rolling mills			
Worm conveyors	G	Crank presses	S	Plate titers	M**		
Medium and heavy load		Shearing machine	M**	Bloom pushers	H**		
Shaft- sinking machines	S*	Forging presses	S	Bloom conveying plants	S**		
Bucket conveyors	M	Punching presses	S	Wire pulls	M		
Bucket belts	M**	Mills, rubber		Revolving turrets	M**		
Assembly line conveyors	M	Hammer mills	H**	(conti.casting)			
Conveyors winders	M**	Edge mills	H**	De-scaling crushers	S**		
Conveyors	S*	Ball mills	H**	Reels			
Belt conveyors	M	Pendulum mills	H**	- Strip	M*		
Chain conveyors	M	Impact mills	H**	- Wire	M**		
Goods lifts	M	Tube mills	H**	Walking beam conveyors	M*		
Passengers lifts	***	Beating mills	H**	Chain transporter	M**		
Apron conveyors	M	Rod mills	H**	Cooling trough	M**		
Shaker conveyors	M	Roller mills	H**	Traverse tractors	M**		
Worm conveyors	M			Pipe welding machines	S		
Inclined lifts	S**			Pipe drawing machines	S*		

Service Factors

Table 2	Service factor			f_1	
Prime Mover	Hours of operation/day	Prime mover load parameter			Extra heavy duty H
		Uniform Load G	Medium Load M	Heavy load S	
Electric Motor Turbine	up to 3	0.80	1.00	1.50	2.00
	over 3 to 10	1.00	1.25	1.75	2.25
	over 10 to 24	1.25	1.50	2.00	2.50
Piston Engines 4-6 cylinder U>1:100 - 1:200	up to 3	1.00	1.25	1.75	2.25
	over 3 to 10	1.25	1.50	2.00	2.50
	over 10 to 24	1.50	1.75	2.25	2.75
Piston Engines 1-3 cylinder U<1:100	up to 3	1.25	1.50	2.00	2.50
	over 3 to 10	1.50	1.75	2.25	2.75
	over 10 to 24	1.75	2.00	2.50	3.00

Load parameters

- G = Uniform load
- M = Medium load
- S = Heavy load
- H = Extra heavy load
- * = Detailed calculation on request
- ** = Only calculated for 24-hour period of operation
- *** = Load parameter on request
- U = Cyclic variation

The load parameters quoted are parameters gained from experience. Calculation for driven machines not mentioned above or deviations from the norm obtainable on request.

Table 3	Starting frequency factor					f_2
Starts per hour	Service factor (f_1)					2.0
	1.0	1.2	1.4	1.6	1.8	
1	1.0	1.0	1.0	1.0	1.0	1.0
2 to 20	1.2	1.1	1.08	1.07	1.07	1.06
21 to 40	1.3	1.2	1.17	1.16	1.15	1.08
41 to 80	1.5	1.4	1.25	1.23	1.18	1.1
281 to 160	1.6	1.5	1.35	1.3	1.2	1.1
161 to 320	2.0	1.8	1.7	1.6	1.5	1.4
over 320	2.5	2.25	2.0	1.9	1.8	1.75

Service Factors

Ambient temperature factor, B_1 :

When the ambient temperature is below 25 °C, B_1 allows an increase in the thermal rating. Conversely, with an ambient air temperature above 25 °C, the thermal rating is reduced. See Table 4A & 4B.

Gear units without auxiliary cooling or with fan	
Table 4A, Ambient temperature factor, B_1	
Ambient temperature, °C	B_1
10	1.15
18	1.07
25	1.00
30	0.93
40	0.83
43	0.75
50	0.67

Gear units with cooling coil or with fan and cooling coil	
Table 4B, Ambient temperature factor, B_1	
Ambient temperature, °C	B_1
10	1.05
18	1.03
25	1.00
30	0.97
40	0.87
43	0.84
50	0.81

Ambient air velocity factor, B_2 :

When the surrounding air has a steady velocity in excess of 1.4 m/s, due to natural or operational wind fields, the increased convection heat transfer allows the thermal rating to be increased by applying B_2 . Conversely, with an ambient air velocity of ≤ 0.50 m/s, the thermal rating is reduced. See Table 5.

Table 5, Ambient air velocity factor, B_2	
Ambient air velocity, m/s	B_2
≤ 0.5	0.75
$> 0.5 \leq 1.4$	1.00
$> 1.4 < 3.7$	1.40
≥ 3.7	1.90

Altitudes factor, B_3 :

At high altitudes the decrease in air density results in the derating factor B_3 . See Table 6.

Table 6, Altitude factor, B_3	
Altitude, m	B_3
0 (sea level)	1.15
750	1.07
1500	0.90
2250	0.85
3000	0.81
3750	0.77
4500	0.72
5250	0.68

Service Factors

Maximum allowable oil sump temperature factor, B_4 :

The standard maximum allowable oil sump temperature is 95°C. A lower sump temperature requires a reduction in the thermal rating using B_4 (See Table 7). A maximum allowable sump temperature in excess of 95°C will increase the thermal rating and can provide acceptable gear drive performance in some applications. However, it must be recognized that operating above 95°C may reduce lubricant and contact seal life and increase the surface deterioration on the gears and bearings, with a subsequent increase in the frequency of maintenance. The gear manufacturer should be consulted when a maximum allowable oil sump temperature in excess of 95°C is being considered.

Table 7, Maximum allowable oil sump temperature factor, B_4	
Maximum oil sump temperature, °C	B_4
85	0.81
95	1.00
105	1.13

Operation time factor, E_D :

When a gear drive sees less than continuous operation with periods of zero speed, the resulting “cool-off” time allows the thermal rating to be increased by E_D . See Table 8.

Table 8, Operation time factor, E_D	
Operation time per each hour, %	E_D
100 (Continuous)	1.00
80	1.05
70	1.15
40	1.35
20	1.80

Nominal Power Rating (kW)

Helical - Single Stage

Type - S1

i _N	n ₁	n ₂	GEAR UNIT SIZE													
			26A	27	28	29	30	31	32	33	34	35	36	37	38	39
2	1500	750.0	-		-											
	1000	500.0	6721		8010											
	750	375.0	5041		6008											
2.24	1500	669.6	-		-											
	1000	446.4	6281		7034											
	750	334.8	4711		5275											
2.5	1500	600.0	-		-											
	1000	400.0	4946		6539											
	750	300.0	3710		4904											
2.8	1500	535.7	-		-											
	1000	357.1	4708		6446											
	750	267.9	3531		4835											
3.15	1500	476.2	-		-											
	1000	317.5	4169		5939											
	750	238.1	3127		4454											
3.55	1500	422.5	-		-											
	1000	281.7	3816		5279											
	750	211.3	2862		3959											
4	1500	375.0	-		-			-								
	1000	250.0	3421		4619			6545								
	750	187.5	2566		3465			4908								
4.5	1500	333.3	3935		5198			-								
	1000	222.2	2624		3465			5119								
	750	166.7	1968		2599			3839								
5	1500	300.0	3134		3973			-								
	1000	200.0	2089		2649			3717								
	750	150.0	1567		1987			2788								
5.6	1500	267.9	2535		3361			-								
	1000	178.6	1690		2241			2817								
	750	133.9	1268		1680			2113								

Thermal Capacity (kW) Helical - Single Stage Type-S1 Speed-750 RPM

i _N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
2	P ₁	595		680											
	P ₂	*		*											
	P ₃	*		*											
	P ₄	*		*											
2.4	P ₁	584		667											
	P ₂	*		*											
	P ₃	*		*											
	P ₄	*		*											
2.5	P ₁	599		684											
	P ₂	*		*											
	P ₃	*		*											
	P ₄	*		*											
2.8	P ₁	598		683											
	P ₂	*		*											
	P ₃	*		*											
	P ₄	*		*											
3.15	P ₁	540		617											
	P ₂	*		*											
	P ₃	*		*											
	P ₄	*		*											
3.55	P ₁	550		628											
	P ₂	*		*											
	P ₃	*		*											
	P ₄	*		*											
4	P ₁	519		592		726									
	P ₂	*		*		*									
	P ₃	*		*		*									
	P ₄	*		*		*									
4.5	P ₁	539		616		754									
	P ₂	*		*		*									
	P ₃	*		*		*									
	P ₄	*		*		*									
5	P ₁	513		586		718									
	P ₂	*		*		*									
	P ₃	*		*		*									
	P ₄	*		*		*									
5.6	P ₁	457		522		640									
	P ₂	*		*		*									
	P ₃	*		*		*									
	P ₄	*		*		*									

* Thermal Capacity On Request

- P₁ (kW) Gear units without auxiliary cooling
- P₂ (kW) Gear units with fan
- P₃ (kW) Gear units with built-in cooling coil
- P₄ (kW) Gear units with fan and built-in cooling coil

Thermal Capacity (kW) Helical - Single Stage Type-S1 Speed-1000 RPM

i _N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
2	P ₁	618		706											
	P ₂	*		*											
	P ₃	*		*											
	P ₄	*		*											
2.4	P ₁	609		695											
	P ₂	*		*											
	P ₃	*		*											
	P ₄	*		*											
2.5	P ₁	621		709											
	P ₂	*		*											
	P ₃	*		*											
	P ₄	*		*											
2.8	P ₁	619		707											
	P ₂	*		*											
	P ₃	*		*											
	P ₄	*		*											
3.15	P ₁	567		648											
	P ₂	*		*											
	P ₃	*		*											
	P ₄	*		*											
3.55	P ₁	576		658											
	P ₂	*		*											
	P ₃	*		*											
	P ₄	*		*											
4	P ₁	545		623		763									
	P ₂	*		*		*									
	P ₃	*		*		*									
	P ₄	*		*		*									
4.5	P ₁	568		648		794									
	P ₂	*		*		*									
	P ₃	*		*		*									
	P ₄	*		*		*									
5	P ₁	542		619		759									
	P ₂	*		*		*									
	P ₃	*		*		*									
	P ₄	*		*		*									
5.6	P ₁	488		557		682									
	P ₂	*		*		*									
	P ₃	*		*		*									
	P ₄	*		*		*									

* Thermal Capacity On Request

- P₁ (kW) Gear units without auxiliary cooling
- P₂ (kW) Gear units with fan
- P₃ (kW) Gear units with built-in cooling coil
- P₄ (kW) Gear units with fan and built-in cooling coil

Thermal Capacity (kW)

Helical - Single Stage

Type-S1

Speed-1500 RPM

i_N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
2	P ₁														
	P ₂														
	P ₃														
	P ₄														
2.4	P ₁														
	P ₂														
	P ₃														
	P ₄														
2.5	P ₁														
	P ₂														
	P ₃														
	P ₄														
2.8	P ₁														
	P ₂														
	P ₃														
	P ₄														
3.15	P ₁														
	P ₂														
	P ₃														
	P ₄														
3.55	P ₁														
	P ₂														
	P ₃														
	P ₄														
4	P ₁														
	P ₂														
	P ₃														
	P ₄														
4.5	P ₁	603		688											
	P ₂	*		*											
	P ₃	*		*											
	P ₄	*		*											
5	P ₁	578		660											
	P ₂	*		*											
	P ₃	*		*											
	P ₄	*		*											
5.6	P ₁	526		601											
	P ₂	*		*											
	P ₃	*		*											
	P ₄	*		*											

* Thermal Capacity On Request

P₁ (kW) Gear units without auxiliary cooling

P₂ (kW) Gear units with fan

P₃ (kW) Gear units with built-in cooling coil

P₄ (kW) Gear units with fan and built-in cooling coil

Nominal Power Rating (kW)

Helical - Double Stage

Type - S2

i _N	n ₁	n ₂	GEAR UNIT SIZE														
			26A	27	28	29	30	31	32	33	34	35	36	37	38	39	
6.3	1500	238.1	3568*		4857*												
	1000	158.7	2379		3238			4927*		6911*		8423*		13460*			
	750	119.0	1784		2429			3695		5183		6317		10095			
7.1	1500	211.3	3249*	3570*	4318*	5099*											
	1000	140.8	2166	2380	2879	3399	4291	5026*	6018	6819*	7782*	8386*	12187*	13395*	15737*		
	750	105.6	1624	1785	2159	2549	3218	3770	4514	5114	5836	6290	9140	10046	11803*	13129*	
8	1500	187.5	2894	3250*	3907*	4533*	5708*		8007*								
	1000	125.0	1929	2167	2605	3022	3805	4377	5338	5938	7320*	7728*	11425*	12297*	13738*	15987*	
	750	93.8	1447	1625	1954	2266	2854	3283	4003	4453	5490	5796	8568	9223	10303*	11990*	
9	1500	166.7	2496	2895	3473*	4101*	5294*	5823*	7425*	7900*	9903*						
	1000	111.1	1664	1930	2315	2734	3529	3882	4950	5266	6602*	7284*	10031*	11594*	13101*	13825*	
	750	83.3	1248	1448	1736	2051	2647	2912	3713	3950	4952	5463	7523	8696	9826*	10369*	
10	1500	150.0	2260	2498	3156	3646*	4632*	5400*	6497*	7326*	9548*	9841*					
	1000	100.0	1507	1665	2104	2430	3088	3600	4331	4884	6366*	6561*	9044*	10592*	11989*	13245*	
	750	75.0	1130	1249	1578	1823	2316	2700	3249	3663	4774	4920	6783	7944	8992*	9934*	
11.2	1500	133.9	2046	2261	2801	3313	4299*	4725*	6029*	6410*	8257*	9436*					
	1000	89.3	1364	1507	1868	2208	2866	3150	4020	4274	5504*	6291*	8226*	9550*	11517*	11960*	
	750	67.0	1023	1130	1401	1656	2149	2363	3015	3205	4128	4718	6169	7162	8638*	8970*	
12.5	1500	120.0	1819	2047	2434	2940	3684	4385*	5167	5949*	7840*	8221*	10823*	13028*			
	1000	80.0	1213	1364	1623	1960	2456	2923	3445	3966	5226	5481*	7216*	8685*	10236*	11874*	
	750	60.0	910	1023	1217	1470	1842	2193	2584	2974	3920	4111	5412	6514	7677*	8905*	
14	1500	107.1	1614	1820	2233	2555	3318	3758	4655	5098	7196	7781*	9711*	11428*			
	1000	71.4	1076	1214	1488	1703	2212	2505	3103	3399	4798	5187	6474*	7618*	9267*	10207*	
	750	53.6	807	910	1116	1277	1659	1879	2327	2549	3598	3890	4855	5714	6950*	7655*	
16	1500	93.8	1412	1615	1954	2344	2883	3385	4044	4592	6506	7117	8568				
	1000	62.5	942	1077	1302	1562	1922	2257	2696	3062	4337	4745	5712*	6835*	8170*	9299*	
	750	46.9	706	807	977	1172	1441	1693	2022	2296	3253	3559	4284	5127	6127*	6974*	
18	1500	83.3	1263	1413	1767	2051	2637	2941	3699	3990	5783	6500	7616	9047			
	1000	55.6	842	942	1178	1367	1758	1961	2466	2660	3855	4333	5078*	6031*	7364*	8198*	
	750	41.7	631	707	884	1025	1318	1471	1849	1995	2892	3250	3808	4523	5523*	6148*	
20	1500	75.0	1130	1263	1545	1855	2340	2690	3283	3649	4758	5778	6496	8042			
	1000	50.0	753	842	1030	1237	1560	1793	2188	2433	3172	3852	4331*	5361*	6237*	7390*	
	750	37.5	565	632	772	928	1170	1345	1641	1825	2379	2889	3248	4021	4678*	5542*	
22.4	1500	67.0		1130		1621		2387		3176		4729		6465			
	1000	44.6		754		1081		1592		2118		3153		4310*			6281*
	750	33.5		565		811		1194		1588		2364		3232			4711*

* Forced lubrication required

Thermal Capacity (kW) Helical - Double Stage Type-S2 Speed-750 RPM

i _N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
6.3	P ₁	359		431		555		644		869					
	P ₂	633		760		980		*		*					
	P ₃	1039		1385		*		*		*					
	P ₄	1313		1714		*		*		*					
7.1	P ₁	358	373	430	473	555	606	644	708	869	960				
	P ₂	632	659	759	834	979	1070	*	*	*	*				
	P ₃	1038	1038	1384	1384	*	*	*	*	*	*				
	P ₄	1312	1324	1713	1746	*	*	*	*	*	*				
8	P ₁	338	353	406	446	524	573	608	669	820	907				
	P ₂	597	622	717	788	925	1011	*	*	*	*				
	P ₃	980	980	1307	1307	*	*	*	*	*	*				
	P ₄	1239	1250	1618	1649	*	*	*	*	*	*				
9	P ₁	321	334	385	423	497	543	576	634	778	860				
	P ₂	566	590	680	747	877	958	*	*	*	*				
	P ₃	930	930	1240	1240	*	*	*	*	*	*				
	P ₄	1175	1185	1534	1563	*	*	*	*	*	*				
10	P ₁	317	331	381	419	492	537	570	627	769	850				
	P ₂	560	583	672	739	867	948	*	*	*	*				
	P ₃	919	919	1226	1226	*	*	*	*	*	*				
	P ₄	1162	1172	1517	1546	*	*	*	*	*	*				
11.2	P ₁	313	326	376	413	485	530	563	619	759	839				
	P ₂	553	576	664	729	856	935	*	*	*	*				
	P ₃	907	907	1210	1210	*	*	*	*	*	*				
	P ₄	1147	1157	1498	1526	*	*	*	*	*	*				
12.5	P ₁	299	311	359	394	463	506	537	590	724	800				
	P ₂	527	549	633	695	817	892	*	*	*	*				
	P ₃	866	866	1154	1154	*	*	*	*	*	*				
	P ₄	1094	1104	1428	1455	*	*	*	*	*	*				
14	P ₁	289	301	347	381	447	489	519	571	700	774				
	P ₂	510	531	612	672	790	863	*	*	*	*				
	P ₃	837	837	1116	1116	*	*	*	*	*	*				
	P ₄	1058	1067	1381	1407	*	*	*	*	*	*				
16	P ₁	266	277	320	351	412	450	478	526	645	713				
	P ₂	470	489	564	619	727	795	*	*	*	*				
	P ₃	771	771	1028	1028	*	*	*	*	*	*				
	P ₄	975	983	1272	1297	*	*	*	*	*	*				
18	P ₁	256	266	307	337	396	432	459	505	619	685				
	P ₂	451	470	541	595	698	763	*	*	*	*				
	P ₃	740	740	987	987	*	*	*	*	*	*				
	P ₄	936	944	1222	1245	*	*	*	*	*	*				
20	P ₁	254	264	304	334	393	429	455	501	615	679				
	P ₂	447	466	537	590	693	757	*	*	*	*				
	P ₃	735	735	980	980	*	*	*	*	*	*				
	P ₄	929	937	1212	1235	*	*	*	*	*	*				
22.4	P ₁		244		309		397		463		628				
	P ₂		431		545		700		*		*				
	P ₃		679		905		*		*		*				
	P ₄		866		1142		*		*		*				

* Thermal Capacity On Request

- P₁ (kW) Gear units without auxiliary cooling
- P₂ (kW) Gear units with fan
- P₃ (kW) Gear units with built-in cooling coil
- P₄ (kW) Gear units with fan and built-in cooling coil

Thermal Capacity (kW) Helical - Double Stage Type-S2 Speed-1000 RPM

i _n		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
6.3	P ₁	386		463		597		693		935					
	P ₂	681		817		1054		*		*					
	P ₃	1117		1490		*		*		*					
	P ₄	1412		1844		*		*		*					
7.1	P ₁	386	402	463	509	598	653	693	762	935	1034				
	P ₂	681	709	818	898	1055	1153	*	*	*	*				
	P ₃	1118	1118	1491	1491	*	*	*	*	*	*				
	P ₄	1413	1426	1845	1880	*	*	*	*	*	*				
8	P ₁	366	382	440	483	568	620	658	724	888	982				
	P ₂	647	674	776	853	1002	1094	*	*	*	*				
	P ₃	1062	1062	1415	1415	*	*	*	*	*	*				
	P ₄	1342	1353	1752	1785	*	*	*	*	*	*				
9	P ₁	349	363	419	460	540	590	626	689	845	934				
	P ₂	615	641	739	812	953	1042	*	*	*	*				
	P ₃	1011	1011	1347	1347	*	*	*	*	*	*				
	P ₄	1277	1288	1668	1699	*	*	*	*	*	*				
10	P ₁	345	360	415	456	535	585	620	682	837	925				
	P ₂	609	635	732	804	944	1032	*	*	*	*				
	P ₃	1001	1001	1334	1334	*	*	*	*	*	*				
	P ₄	1265	1276	1651	1683	*	*	*	*	*	*				
11.2	P ₁	341	356	410	450	529	578	613	674	827	914				
	P ₂	602	627	723	794	933	1019	*	*	*	*				
	P ₃	989	989	1318	1318	*	*	*	*	*	*				
	P ₄	1250	1261	1632	1663	*	*	*	*	*	*				
12.5	P ₁	328	341	393	432	507	554	588	647	794	878				
	P ₂	578	602	694	762	895	978	*	*	*	*				
	P ₃	949	949	1265	1265	*	*	*	*	*	*				
	P ₄	1199	1210	1566	1596	*	*	*	*	*	*				
14	P ₁	317	331	381	419	492	537	570	627	769	850				
	P ₂	560	583	672	739	867	948	*	*	*	*				
	P ₃	919	919	1226	1226	*	*	*	*	*	*				
	P ₄	1162	1172	1517	1546	*	*	*	*	*	*				
16	P ₁	294	307	353	388	456	498	529	582	714	789				
	P ₂	519	541	624	685	805	879	*	*	*	*				
	P ₃	853	853	1137	1137	*	*	*	*	*	*				
	P ₄	1078	1087	1408	1434	*	*	*	*	*	*				
18	P ₁	283	295	340	374	439	480	509	560	687	759				
	P ₂	500	521	601	660	775	847	*	*	*	*				
	P ₃	821	821	1095	1095	*	*	*	*	*	*				
	P ₄	1038	1047	1355	1381	*	*	*	*	*	*				
20	P ₁	281	293	338	371	436	476	505	556	682	753				
	P ₂	496	517	596	654	769	840	*	*	*	*				
	P ₃	815	815	1086	1086	*	*	*	*	*	*				
	P ₄	1030	1039	1344	1370	*	*	*	*	*	*				
22.4	P ₁		263		332		426		498		675				
	P ₂		463		587		753		*		*				
	P ₃		730		973		*		*		*				
	P ₄		931		1228		*		*		*				

* Thermal Capacity On Request

- P₁ (kW) Gear units without auxiliary cooling
- P₂ (kW) Gear units with fan
- P₃ (kW) Gear units with built-in cooling coil
- P₄ (kW) Gear units with fan and built-in cooling coil

Thermal Capacity (kW) Helical - Double Stage Type-S2 Speed-1500 RPM

i _N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
6.3	P ₁	420		504											
	P ₂	741		890											
	P ₃	1217		1623											
	P ₄	1538		2009											
7.1	P ₁	421	439	506	555										
	P ₂	743	774	892	980										
	P ₃	1220	1220	1626	1626										
	P ₄	1542	1555	2013	2051										
8	P ₁	403	420	484	532	625		724							
	P ₂	712	741	854	939	1102		*							
	P ₃	1168	1168	1558	1558	*		*							
	P ₄	1477	1489	1928	1964	*		*							
9	P ₁	385	401	462	508	597	652	692	761	934					
	P ₂	680	708	816	896	1053	1150	*	*	*					
	P ₃	1116	1116	1488	1488	*	*	*	*	*					
	P ₄	1410	1423	1842	1876	*	*	*	*	*					
10	P ₁	382	398	459	504	592	646	686	755	926	1023				
	P ₂	674	702	809	889	1044	1141	*	*	*	*				
	P ₃	1107	1107	1476	1476	*	*	*	*	*	*				
	P ₄	1399	1411	1826	1861	*	*	*	*	*	*				
11.2	P ₁	378	394	454	499	586	640	680	748	917	1014				
	P ₂	668	696	802	881	1034	1130	*	*	*	*				
	P ₃	1096	1096	1462	1462	*	*	*	*	*	*				
	P ₄	1386	1398	1809	1843	*	*	*	*	*	*				
12.5	P ₁	366	381	440	483	567	620	658	724	888	981				
	P ₂	646	673	776	852	1001	1094	*	*	*	*				
	P ₃	1061	1061	1415	1415	*	*	*	*	*	*				
	P ₄	1341	1353	1751	1784	*	*	*	*	*	*				
14	P ₁	356	371	427	470	551	603	639	703	863	954				
	P ₂	628	655	754	829	973	1063	*	*	*	*				
	P ₃	1031	1031	1375	1375	*	*	*	*	*	*				
	P ₄	1304	1315	1702	1734	*	*	*	*	*	*				
16	P ₁	333	347	400	439	516	564	598	658	807	892				
	P ₂	588	612	706	775	910	994	*	*	*	*				
	P ₃	965	965	1286	1286	*	*	*	*	*	*				
	P ₄	1219	1230	1592	1622	*	*	*	*	*	*				
18	P ₁	322	336	387	425	499	545	579	636	781	863				
	P ₂	568	592	683	750	880	962	*	*	*	*				
	P ₃	933	933	1244	1244	*	*	*	*	*	*				
	P ₄	1180	1190	1540	1569	*	*	*	*	*	*				
20	P ₁	319	332	383	421	494	540	573	630	773	855				
	P ₂	563	587	676	743	872	953	*	*	*	*				
	P ₃	924	924	1232	1232	*	*	*	*	*	*				
	P ₄	1168	1178	1525	1554	*	*	*	*	*	*				
22.4	P ₁		275		348		447		522		707				
	P ₂		485		615		789		*		*				
	P ₃		765		1020		*		*		*				
	P ₄		975		1286		*		*		*				

* Thermal Capacity On Request

- P₁ (kW) Gear units without auxiliary cooling
- P₂ (kW) Gear units with fan
- P₃ (kW) Gear units with built-in cooling coil
- P₄ (kW) Gear units with fan and built-in cooling coil

Nominal Power Rating (kW)

Helical - Three Stage

Type - S3

i _N	n ₁	n ₂	GEAR UNIT SIZE													
			26A	27	28	29	30	31	32	33	34	35	36	37	38	39
22.4	1500	67	1090		1445		2100		2985*		4419*		5981*		-	
	1000	44.6	726		963		1400		1990		2946		3988		5676	
	750	33.5	545		723		1050		1493		2210		2991		4257	
25	1500	60	967	1104	1282	1574	1926	2147	2689*	2950*	4059*	4383*	5367*	6315*	-	-
	1000	40	644	736	855	1049	1284	1431	1793	1967	2706	2922	3578	4210	5097	5695
	750	30	483	552	641	787	963	1073	1345	1475	2030	2192	2683	3158	3823	4272
28	1500	53.6	846	979	1122	1396	1685	1969	2336*	2658*	3666*	4040*	4735*	5666*	-	-
	1000	35.7	564	653	748	931	1123	1313	1558	1772	2444	2694	3157	3777	4493	5114
	750	26.8	423	490	561	698	843	985	1168	1329	1833	2020	2368	2833	3370	3836
31.5	1500	47.6	763	857	1012	1222	1483	1723	2077	2309*	3279	3662*	4371*	5000*	6127*	-
	1000	31.7	508	571	674	814	989	1149	1385	1539	2186	2441	2914	3333	4085	4509
	750	23.8	381	429	506	611	741	862	1038	1154	1640	1831	2185	2500	3064	3382
35.5	1500	42.3	677	773	898	1102	1360	1516	1871	2052	2915	3275	3922*	4615*	5502*	6148*
	1000	28.2	451	515	598	734	877	1011	1217	1368	1776	2183	2432	3077	3430	4099
	750	21.1	338	386	449	551	680	758	935	1026	1457	1637	1961	2308	2751	3074
40	1500	37.5	592	686	785	977	1190	1391	1625	1849	2551	2911	3460*	4141*	4851*	5521*
	1000	25	395	457	524	652	793	927	1084	1233	1700	1941	2307	2760	3234	3681
	750	18.8	296	343	393	489	595	695	813	924	1275	1456	1730	2070	2425	2761
45	1500	33.3	529	600	702	855	1077	1217	1487	1606	2267	2547	3076*	3654*	4373*	4867*
	1000	22.2	353	400	468	570	718	811	991	1071	1511	1698	2051	2436	2915	3245
	750	16.7	265	300	351	428	538	609	743	803	1134	1274	1538	1827	2186	2434
50	1500	30	480	536	637	765	974	1101	1336	1469	2082	2264	2775	3248*	3942*	4388*
	1000	20	320	358	425	510	649	734	891	979	1388	1509	1850	2165	2628	2925
	750	15	240	268	318	382	487	551	668	735	1041	1132	1387	1624	1971	2194
56	1500	26.8	420	486	557	693	852	995	1161	1321	1822	2079	2448	2929	3475*	3956*
	1000	17.9	280	324	371	462	568	664	774	880	1215	1386	1632	1953	2317	2637
	750	13.4	210	243	279	347	426	498	580	660	911	1040	1224	1465	1738	1978
63	1500	23.8	376	426	498	607	771	871	1062	1147	1619	1819	2176	2585	3133*	3487*
	1000	15.9	250	284	332	404	514	581	708	765	1080	1213	1451	1723	2088	2325
	750	11.9	188	213	249	303	385	436	531	574	810	910	1088	1292	1566	1744
71	1500	21.1	342	381	454	542	679	788	935	1049	1457	1617	1920	2298	2780	3143*
	1000	14.1	228	254	303	362	453	525	624	700	972	1078	1280	1532	1853	2096
	750	10.6	171	190	227	271	340	394	468	525	729	809	960	1149	1390	1572
80	1500	18.8	299	347	397	494	595	695	813	924	1275	1456	1694	2027	2451	2790
	1000	12.5	200	231	265	329	396	463	542	616	850	970	1129	1351	1634	1860
	750	9.4	150	173	199	247	297	347	406	462	638	728	847	1013	1225	1395
90	1500	16.7	268	303	355	432	520	608	726	803	1036	1274	1401	1788	2066	2459
	1000	11.1	178	202	237	288	347	405	484	535	691	849	934	1192	1377	1640
	750	8.3	134	152	178	216	260	304	363	402	518	637	700	894	1033	1230
100	1500	15		271		365		534		727		1031		1404		2074
	1000	10		181		243		356		485		687		936		1383
	750	7.5		136		182		267		363		515		702		1037

* Forced lubrication required

Thermal Capacity (kW) Helical - Triple Stage Type-S3 Speed-750 RPM

i _N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
22.4	P ₁	265		297		378		456		597					
	P ₂	468		523		667		804		1054					
	P ₃	679		905		*		*		*					
	P ₄	882		1132		*		*		*					
25	P ₁	253	271	283	313	361	381	435	475	570	578				
	P ₂	446	478	499	552	636	672	767	839	1005	1020				
	P ₃	648	648	864	864	*	*	*	*	*	*				
	P ₄	841	855	1080	1103	*	*	*	*	*	*				
28	P ₁	232	249	260	287	331	350	399	437	523	531				
	P ₂	410	439	458	507	585	617	704	770	923	937				
	P ₃	595	595	793	793	*	*	*	*	*	*				
	P ₄	772	785	992	1013	*	*	*	*	*	*				
31.5	P ₁	226	242	253	280	323	341	389	426	510	518				
	P ₂	400	428	447	495	570	602	687	751	900	914				
	P ₃	580	580	774	774	*	*	*	*	*	*				
	P ₄	753	766	967	988	*	*	*	*	*	*				
35.5	P ₁	230	246	258	285	328	347	396	433	519	527				
	P ₂	406	435	455	503	580	612	698	764	915	929				
	P ₃	590	590	786	786	*	*	*	*	*	*				
	P ₄	766	778	983	1004	*	*	*	*	*	*				
40	P ₁	222	237	248	274	316	334	381	417	499	507				
	P ₂	391	419	438	484	558	589	672	735	881	894				
	P ₃	568	568	757	757	*	*	*	*	*	*				
	P ₄	737	749	947	967	*	*	*	*	*	*				
45	P ₁	232	248	259	287	330	349	398	435	522	530				
	P ₂	409	438	457	506	583	616	703	768	921	935				
	P ₃	593	593	791	791	*	*	*	*	*	*				
	P ₄	771	783	989	1011	*	*	*	*	*	*				
50	P ₁	242	260	271	300	346	365	417	456	546	554				
	P ₂	428	458	479	530	610	644	735	804	964	978				
	P ₃	621	621	828	828	*	*	*	*	*	*				
	P ₄	807	820	1036	1058	*	*	*	*	*	*				
56	P ₁	229	245	256	283	327	345	394	430	516	524				
	P ₂	404	432	452	500	576	608	694	759	910	924				
	P ₃	586	586	782	782	*	*	*	*	*	*				
	P ₄	762	774	978	999	*	*	*	*	*	*				
63	P ₁	218	233	244	269	310	328	374	409	490	498				
	P ₂	384	411	430	475	548	578	660	722	865	878				
	P ₃	558	558	743	743	*	*	*	*	*	*				
	P ₄	724	736	930	950	*	*	*	*	*	*				
71	P ₁	228	244	255	282	325	343	392	428	513	521				
	P ₂	402	431	450	498	574	606	691	756	906	920				
	P ₃	584	584	779	779	*	*	*	*	*	*				
	P ₄	758	771	974	994	*	*	*	*	*	*				
80	P ₁	213	228	238	263	303	320	365	400	479	486				
	P ₂	375	402	420	464	535	565	645	705	845	858				
	P ₃	545	545	726	726	*	*	*	*	*	*				
	P ₄	707	719	908	927	*	*	*	*	*	*				
90	P ₁	208	223	233	258	297	314	358	392	470	477				
	P ₂	368	394	412	455	525	554	632	692	829	841				
	P ₃	534	534	712	712	*	*	*	*	*	*				
	P ₄	693	705	890	909	*	*	*	*	*	*				
100	P ₁		198		229		278		348		423				
	P ₂		349		404		491		613		746				
	P ₃		474		632		*		*		*				
	P ₄		625		807		*		*		*				

* Thermal Capacity On Request

P₁ (kW) Gear units without auxiliary cooling
 P₂ (kW) Gear units with fan

P₃ (kW) Gear units with built-in cooling coil
 P₄ (kW) Gear units with fan and built-in cooling coil

Thermal Capacity (kW) Helical - Triple Stage Type-S3 Speed-1000 RPM

i _N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
22.4	P ₁	285		319		407		490		642					
	P ₂	503		563		717		864		1133					
	P ₃	730		973		*		*		*					
	P ₄	948		1217		*		*		*					
25	P ₁	279	299	312	345	398	420	480	525	629	638				
	P ₂	492	527	551	610	702	741	846	926	1109	1126				
	P ₃	715	715	953	953	*	*	*	*	*	*				
	P ₄	928	943	1192	1217	*	*	*	*	*	*				
28	P ₁	246	264	276	305	352	371	424	463	555	564				
	P ₂	435	466	487	538	621	655	748	818	980	995				
	P ₃	631	631	842	842	*	*	*	*	*	*				
	P ₄	820	833	1053	1075	*	*	*	*	*	*				
31.5	P ₁	248	266	278	307	354	374	427	467	559	568				
	P ₂	438	469	490	542	625	660	753	823	987	1002				
	P ₃	636	636	848	848	*	*	*	*	*	*				
	P ₄	826	839	1060	1083	*	*	*	*	*	*				
35.5	P ₁	251	268	281	310	358	378	431	471	565	573				
	P ₂	442	474	495	548	631	666	761	832	997	1012				
	P ₃	642	642	857	857	*	*	*	*	*	*				
	P ₄	834	848	1071	1094	*	*	*	*	*	*				
40	P ₁	224	240	250	277	319	337	385	421	504	512				
	P ₂	395	423	442	489	563	595	679	742	889	903				
	P ₃	573	573	764	764	*	*	*	*	*	*				
	P ₄	744	756	956	976	*	*	*	*	*	*				
45	P ₁	225	241	252	279	321	339	387	423	507	515				
	P ₂	397	425	445	492	567	598	683	747	895	909				
	P ₃	577	577	769	769	*	*	*	*	*	*				
	P ₄	749	761	962	982	*	*	*	*	*	*				
50	P ₁	233	250	261	289	333	351	401	439	526	534				
	P ₂	412	441	461	510	587	620	708	774	928	942				
	P ₃	598	598	797	797	*	*	*	*	*	*				
	P ₄	776	789	997	1018	*	*	*	*	*	*				
56	P ₁	243	260	272	301	347	366	418	457	548	556				
	P ₂	429	460	480	532	613	647	738	807	967	982				
	P ₃	623	623	831	831	*	*	*	*	*	*				
	P ₄	809	823	1039	1061	*	*	*	*	*	*				
63	P ₁	234	250	262	290	334	352	402	440	527	535				
	P ₂	413	442	462	511	589	622	709	776	930	944				
	P ₃	599	599	799	799	*	*	*	*	*	*				
	P ₄	778	791	999	1020	*	*	*	*	*	*				
71	P ₁	248	266	278	307	354	374	427	467	560	568				
	P ₂	438	469	490	543	625	660	753	824	987	1002				
	P ₃	636	636	848	848	*	*	*	*	*	*				
	P ₄	826	840	1061	1084	*	*	*	*	*	*				
80	P ₁	221	237	247	274	316	333	380	416	498	506				
	P ₂	390	418	437	483	557	588	671	734	879	893				
	P ₃	567	567	756	756	*	*	*	*	*	*				
	P ₄	736	748	945	965	*	*	*	*	*	*				
90	P ₁	225	241	252	278	321	339	386	423	507	514				
	P ₂	397	425	444	491	566	597	682	746	894	907				
	P ₃	576	576	768	768	*	*	*	*	*	*				
	P ₄	748	760	960	981	*	*	*	*	*	*				
100	P ₁		198		229		492		614		747				
	P ₂		350		404		492		614		747				
	P ₃		474		632		*		*		*				
	P ₄		626		807		*		*		*				

* Thermal Capacity On Request

P₁ (kW) Gear units without auxiliary cooling
P₂ (kW) Gear units with fan

P₃ (kW) Gear units with built-in cooling coil
P₄ (kW) Gear units with fan and built-in cooling coil

Thermal Capacity (kW) Helical - Triple Stage Type-S3 Speed-1500 RPM

i _N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
22.4	P ₁	299		334		426		513		673					
	P ₂	527		590		752		906		1187					
	P ₃	765		1020		*		*		*					
	P ₄	993		1275		*		*		*					
25	P ₁	289	309	323	358	412	435	497	543	651	661				
	P ₂	510	546	571	631	727	768	877	959	1149	1166				
	P ₃	740	740	987	987	*	*	*	*	*	*				
	P ₄	961	977	1234	1261	*	*	*	*	*	*				
28	P ₁	268	286	299	331	382	403	460	503	603	612				
	P ₂	472	506	528	585	674	711	812	888	1064	1080				
	P ₃	686	686	914	914	*	*	*	*	*	*				
	P ₄	890	905	1143	1167	*	*	*	*	*	*				
31.5	P ₁	285	305	319	353	407	429	490	536	642	652				
	P ₂	503	538	563	623	717	757	864	945	1133	1150				
	P ₃	730	730	973	973	*	*	*	*	*	*				
	P ₄	948	963	1217	1243	*	*	*	*	*	*				
35.5	P ₁	280	299	313	346	399	421	481	526	630	640				
	P ₂	494	528	552	611	704	743	849	928	1112	1129				
	P ₃	717	717	955	955	*	*	*	*	*	*				
	P ₄	930	946	1195	1220	*	*	*	*	*	*				
40	P ₁	262	280	293	324	373	394	450	492	589	598				
	P ₂	462	494	517	572	659	695	794	868	1040	1056				
	P ₃	670	670	894	894	*	*	*	*	*	*				
	P ₄	870	885	1118	1141	*	*	*	*	*	*				
45	P ₁	252	270	283	313	360	380	434	475	569	577				
	P ₂	446	477	499	552	636	671	766	838	1004	1019				
	P ₃	647	647	863	863	*	*	*	*	*	*				
	P ₄	840	854	1079	1102	*	*	*	*	*	*				
50	P ₁	255	273	285	316	364	384	438	479	574	583				
	P ₂	450	482	503	557	642	677	773	846	1013	1029				
	P ₃	653	653	871	871	*	*	*	*	*	*				
	P ₄	848	862	1089	1112	*	*	*	*	*	*				
56	P ₁	236	253	264	292	337	356	406	444	532	540				
	P ₂	417	446	466	516	594	628	716	783	939	953				
	P ₃	605	605	807	807	*	*	*	*	*	*				
	P ₄	786	798	1009	1030	*	*	*	*	*	*				
63	P ₁	237	254	265	293	338	357	407	445	534	542				
	P ₂	418	448	468	518	597	630	719	786	942	956				
	P ₃	607	607	809	809	*	*	*	*	*	*				
	P ₄	788	801	1012	1034	*	*	*	*	*	*				
71	P ₁	237	254	265	294	338	357	408	446	534	542				
	P ₂	418	448	468	518	597	630	719	787	943	957				
	P ₃	608	608	810	810	*	*	*	*	*	*				
	P ₄	789	802	1013	1035	*	*	*	*	*	*				
80	P ₁	228	244	255	282	325	343	392	429	514	522				
	P ₂	402	431	450	498	574	606	692	757	907	920				
	P ₃	584	584	779	779	*	*	*	*	*	*				
	P ₄	759	771	974	995	*	*	*	*	*	*				
90	P ₁	239	255	267	295	340	359	410	449	538	546				
	P ₂	421	451	471	521	601	634	724	792	949	963				
	P ₃	611	611	815	815	*	*	*	*	*	*				
	P ₄	794	807	1019	1041	*	*	*	*	*	*				
100	P ₁		221		255		310		387		471				
	P ₂		389		450		547		683		831				
	P ₃		528		704		*		*		*				
	P ₄		696		899		*		*		*				

* Thermal Capacity On Request

P₁ (kW) Gear units without auxiliary cooling
 P₂ (kW) Gear units with fan

P₃ (kW) Gear units with built-in cooling coil
 P₄ (kW) Gear units with fan and built-in cooling coil

Nominal Power Rating (kW)

Helical - Four Stage

Type - S4

i _N	n ₁	n ₂	GEAR UNIT SIZE													
			26A	27	28	29	30	31	32	33	34	35	36	37	38	39
100	1500	15	241		320		481		668		1041		1362		1969*	
	1000	10	161		214		321		445		694		908		1313	
	750	7.5	121		160		241		334		521		681		985	
112	1500	13.4	211	245	280	349	421	492	580	660	911	1040	1202	1438	1736*	1976*
	1000	8.9	141	163	187	233	281	328	387	440	607	693	801	959	1157	1317
	750	6.7	106	122	140	174	211	246	290	330	455	520	601	719	868	988
125	1500	12	189	214	251	305	381	431	531	574	810	910	1068	1269	1565*	1742*
	1000	8	126	143	167	203	254	287	354	382	540	606	712	846	1043	1161
	750	6	94	107	125	153	191	215	265	287	405	455	534	634	782	871
140	1500	10.7	164	191	218	273	346	390	468	525	729	809	962	1128	1370	1570*
	1000	7.1	109	128	145	182	231	260	312	350	486	539	641	752	913	1047
	750	5.4	82	96	109	136	173	195	234	262	364	404	481	564	685	785
160	1500	9.4	144	166	191	237	303	354	406	462	638	728	849	1016	1208	1375
	1000	6.3	96	111	127	158	202	236	271	308	425	485	566	677	805	916
	750	4.7	72	83	95	119	152	177	203	231	319	364	424	508	604	687
180	1500	8.3	128	146	170	207	274	310	372	402	567	637	754	896	1089	1212
	1000	5.6	86	97	114	138	183	207	248	268	378	425	503	597	726	808
	750	4.2	64	73	85	104	137	155	186	201	283	318	377	448	544	606
200	1500	7.5	120	130	160	186	245	280	332	367	517	566	688	797	979	1092
	1000	5	80	87	106	124	163	187	221	245	345	377	459	531	652	728
	750	3.8	60	65	80	93	123	140	166	184	259	283	344	398	489	546
224	1500	6.7	105	122	140	174	215	251	288	328	452	516	607	727	863	982
	1000	4.5	70	81	93	116	143	167	192	219	302	344	405	485	575	655
	750	3.3	53	61	70	87	107	125	144	164	226	258	304	363	431	491
250	1500	6	94	107	125	152	194	219	264	285	402	452	540	641	778	866
	1000	4	63	71	83	101	129	146	176	190	268	301	360	428	518	577
	750	3	47	53	62	76	97	110	132	142	201	226	270	321	389	433
280	1500	5.4	82	95	109	136	166	199	224	261	352	402	479	570	675	780
	1000	3.6	55	64	73	91	111	132	150	174	235	268	319	380	450	520
	750	2.7	41	48	55	68	83	99	112	130	176	201	239	285	337	390
315	1500	4.8	74	83	98	119	150	170	205	222	313	352	426	506	608	677
	1000	3.2	49	56	65	79	100	113	137	148	209	234	284	337	406	451
	750	2.4	37	42	49	59	75	85	103	111	157	176	213	253	304	339
355	1500	4.2	60	75	84	106	127	153	178	203	258	313	356	449	511	610
	1000	2.8	40	50	56	71	85	102	119	135	172	208	238	300	341	407
	750	2.1	30	37	42	53	63	77	89	101	129	156	178	225	255	305
400	1500	3.8		61		88		130		178		256		357		513
	1000	2.5		41		59		87		119		171		238		342
	750	1.9		30		44		65		89		128		179		256

* Forced lubrication required

Thermal Capacity (kW) Helical - Four Stage Type-S4 Speed-750 RPM

i _N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
100	P ₁	185		207		264		318		417					
112	P ₁	178	190	199	220	254	268	305	334	400	406				
125	P ₁	173	185	194	214	247	260	297	325	390	396				
140	P ₁	171	183	192	212	244	258	295	322	386	392				
160	P ₁	162	173	181	200	231	244	278	304	365	370				
180	P ₁	157	168	175	194	223	236	269	294	353	358				
200	P ₁	166	178	186	206	237	251	286	313	375	380				
224	P ₁	159	170	177	196	226	239	273	298	357	363				
250	P ₁	151	162	170	188	216	228	260	285	341	346				
280	P ₁	161	172	180	199	230	242	277	302	362	368				
315	P ₁	158	169	176	195	225	237	271	296	355	360				
355	P ₁	158	169	176	195	225	237	271	296	355	360				
400	P ₁		162		188		228		285		347				

Thermal Capacity (kW) Helical - Four Stage Type-S4 Speed-1000 RPM

i _N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
100	P ₁	185		207		264		318		417					
112	P ₁	181	194	203	224	258	273	311	341	408	414				
125	P ₁	169	181	189	209	241	254	290	317	380	386				
140	P ₁	189	203	212	234	270	285	326	356	427	433				
160	P ₁	178	191	200	221	255	269	307	336	402	408				
180	P ₁	170	182	190	210	242	256	292	319	382	388				
200	P ₁	175	187	196	216	249	263	300	329	394	400				
224	P ₁	166	178	186	206	238	251	286	313	375	381				
250	P ₁	163	174	182	202	233	245	280	306	367	373				
280	P ₁	154	165	172	191	220	232	265	290	347	352				
315	P ₁	152	163	171	189	218	230	262	287	344	349				
355	P ₁	152	163	170	188	217	229	261	286	342	348				
400	P ₁		158		183		223		278		338				

Thermal Capacity (kW) Helical - Four Stage Type-S4 Speed-1500 RPM

i _N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
100	P ₁	206		230		294		354		464					
112	P ₁	193	207	216	239	276	291	332	363	435	442				
125	P ₁	185	199	208	230	265	279	319	349	418	424				
140	P ₁	182	195	204	225	260	274	313	342	410	416				
160	P ₁	171	183	191	211	244	257	294	321	385	391				
180	P ₁	163	175	183	202	233	246	280	307	368	373				
200	P ₁	183	196	205	227	262	276	315	345	413	419				
224	P ₁	176	188	196	217	251	264	302	330	396	402				
250	P ₁	172	184	193	213	245	259	296	324	388	394				
280	P ₁	174	187	195	216	249	263	300	328	393	399				
315	P ₁	168	180	188	208	240	253	289	316	379	385				
355	P ₁	173	185	193	214	246	260	297	325	389	395				
400	P ₁		181		209		254		317		386				

P₁ (kW) Gear units without auxiliary cooling

Nominal Output Torque (KNm)

Helical Unit

Size	i _N	GEAR UNIT SIZE												38	39
		26A	27	28	29	30	31	32	33	34	35	36	37		
S1	2	132		153											
	2.24	133		153											
	2.5	119		153											
	2.8	122		174											
	3.15	126		176											
	3.55	129		176											
	4	133		176		250									
	4.5	111		149		220									
	5	100		126		177									
	5.6	92		120		153									
S2	6.3	146		199		298		418		510		815		1050	
	7.1	146	163	199	235	298	342	418	467	530	576	830	920	1050	1210
	8	146	163	199	235	298	342	418	467	551	597	860	950	1060	1210
	9	146	163	199	235	298	342	418	467	566	622	860	990	1090	1210
	10	146	163	199	235	298	342	418	467	587	638	860	1030	1140	1250
	11.2	146	163	199	235	298	342	418	467	587	658	860	1030	1180	1290
	12.5	146	163	199	235	298	342	418	467	612	663	860	1030	1220	1380
	14	146	163	199	235	298	342	418	467	632	689	860	1030	1230	1380
	16	146	163	199	235	298	342	418	467	653	709	860	1030	1230	1400
	18	146	163	199	235	298	342	418	467	653	740	860	1030	1230	1400
20	146	163	199	235	298	342	418	467	597	740	815	1030	1160	1400	
S3	22.4	153	163	200	235	306	342	420	458	600	673	860	920	1230	1325
	25	153	173	200	245	306	352	420	470	620	675	860	1030	1230	1400
	28	153	173	200	245	306	352	420	470	640	700	860	1030	1230	1400
	31.5	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
	35.5	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
	40	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
	45	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
	50	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
	56	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
	63	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
	71	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
80	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400	
90	153	173	200	245	296	352	410	470	585	725	800	1030	1150	1400	
S4	100	153	173	200	231	306	342	420	465	640	660	860	910	1230	1310
	112	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
	125	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
	140	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
	160	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
	180	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
	200	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
	224	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
	250	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
	280	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
	315	153	173	200	245	306	352	420	470	640	725	860	1030	1230	1400
355	140	173	192	245	296	352	410	470	585	725	800	1030	1150	1400	
400		158		227		342		465		660		910		1310	

Nominal Power Rating (kW)

Bevel - Double Stage

Type - K2

i _N	n ₁	n ₂	GEAR UNIT SIZE													
			26A	27	28	29	30	31	32	33	34	35	36	37	38	39
5	1500	300	3295*		5033*											
	1000	200	2197		3355											
	750	150	1648		2516											
5.6	1500	268	3289*	3294*	5128*	5105*										
	1000	179	2193	2196	3419	3403										
	750	134	1644	1647	2564	2552										
6.3	1500	238	3214*	3316*	5023*	4960*										
	1000	159	2143	2210	3349	3307										
	750	119	1607	1658	2512	2480										
7.1	1500	211	3007*	3239*	4465*	5161*										
	1000	141	2004	2159	2977	3441										
	750	106	1503	1620	2233	2580										
8	1500	188	2612*	2965*	3907*	4579*										
	1000	125	1741	1976	2605	3053										
	750	94	1306	1482	1954	2290										
9	1500	167	2389*	2618*	3473*	4014*										
	1000	111	1593	1745	2315	2676										
	750	83	1195	1309	1736	2007										
10	1500	150	2171	2402*	3225*	3613*										
	1000	100	1448	1601	2150	2408										
	750	75	1086	1201	1612	1806										
11.2	1500	134	1887	2141	2822*	3307*										
	1000	89	1258	1427	1881	2205										
	750	67	943	1071	1411	1654										
12.5	1500	120		1891		2899*										
	1000	80		1261		1933										
	750	60		945		1449										

* Forced lubrication required

Thermal Capacity (kW) Bevel-Helical - Double Stage Type-K2 Speed-750 RPM

i_N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
5	P ₁	435		546											
	P ₂	768		963											
	P ₃	1120		1493											
	P ₄	1452		1910											
5.6	P ₁	423	460	531	573										
	P ₂	747	811	937	1010										
	P ₃	1089	1089	1452	1452										
	P ₄	1412	1440	1858	1889										
6.3	P ₁	392	425	491	530										
	P ₂	691	751	867	935										
	P ₃	1008	1008	1343	1343										
	P ₄	1307	1333	1719	1749										
7.1	P ₁	399	434	501	540										
	P ₂	705	765	884	953										
	P ₃	1027	1027	1370	1370										
	P ₄	1333	1359	1753	1783										
8	P ₁	377	409	472	509										
	P ₂	665	722	833	899										
	P ₃	968	968	1291	1291										
	P ₄	1256	1281	1652	1681										
9	P ₁	386	419	484	522										
	P ₂	681	739	854	921										
	P ₃	992	992	1323	1323										
	P ₄	1287	1313	1693	1722										
10	P ₁	350	380	439	473										
	P ₂	617	670	774	835										
	P ₃	900	900	1199	1199										
	P ₄	1167	1190	1535	1561										
11.2	P ₁	328	356	411	444										
	P ₂	579	629	726	783										
	P ₃	843	843	1125	1125										
	P ₄	1094	1116	1439	1464										
12.5	P ₁		294		366										
	P ₂		518		645										
	P ₃		695		927										
	P ₄		920		1207										

* Thermal Capacity On Request

- P₁ (kW) Gear units without auxiliary cooling
- P₂ (kW) Gear units with fan
- P₃ (kW) Gear units with built-in cooling coil
- P₄ (kW) Gear units with fan and built-in cooling coil

Thermal Capacity (kW) Bevel-Helical - Double Stage Type-K2 Speed-1000 RPM

i _N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
5	P ₁	455		571											
	P ₂	803		1007											
	P ₃	1171		1561											
	P ₄	1519		1997											
5.6	P ₁	444	482	556	600										
	P ₂	783	850	982	1059										
	P ₃	1141	1141	1521	1521										
	P ₄	1480	1509	1946	1980										
6.3	P ₁	414	450	520	560										
	P ₂	731	794	917	989										
	P ₃	1065	1065	1421	1421										
	P ₄	1382	1410	1818	1849										
7.1	P ₁	421	457	528	570										
	P ₂	743	807	932	1005										
	P ₃	1083	1083	1444	1444										
	P ₄	1405	1433	1848	1880										
8	P ₁	398	433	500	539										
	P ₂	703	764	882	951										
	P ₃	1025	1025	1366	1366										
	P ₄	1329	1356	1749	1778										
9	P ₁	407	442	511	551										
	P ₂	719	781	901	972										
	P ₃	1048	1048	1397	1397										
	P ₄	1359	1386	1787	1818										
10	P ₁	372	404	466	503										
	P ₂	656	713	823	887										
	P ₃	956	956	1275	1275										
	P ₄	1241	1265	1632	1660										
11.2	P ₁	350	380	439	474										
	P ₂	618	671	775	836										
	P ₃	900	900	1201	1201										
	P ₄	1168	1191	1536	1563										
12.5	P ₁		319		397										
	P ₂		563		701										
	P ₃		756		1008										
	P ₄		1000		1312										

* Thermal Capacity On Request

- P₁ (kW) Gear units without auxiliary cooling
- P₂ (kW) Gear units with fan
- P₃ (kW) Gear units with built-in cooling coil
- P₄ (kW) Gear units with fan and built-in cooling coil

Thermal Capacity (kW) Bevel-Helical - Double Stage Type-K2 Speed-1500 RPM

i_N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
5	P ₁	455		571											
	P ₂	803		1007											
	P ₃	1171		1561											
	P ₄	1519		1997											
5.6	P ₁	484	526	608	655										
	P ₂	855	928	1072	1156										
	P ₃	1246	1246	1661	1661										
	P ₄	1616	1648	2126	2162										
6.3	P ₁	441	479	553	597										
	P ₂	779	846	977	1053										
	P ₃	1135	1135	1513	1513										
	P ₄	1472	1501	1936	1969										
7.1	P ₁	447	486	561	605										
	P ₂	789	857	990	1068										
	P ₃	1151	1151	1534	1534										
	P ₄	1493	1522	1963	1997										
8	P ₁	425	462	533	575										
	P ₂	750	815	941	1015										
	P ₃	1094	1094	1458	1458										
	P ₄	1419	1447	1866	1898										
9	P ₁	433	470	543	586										
	P ₂	764	830	958	1034										
	P ₃	1114	1114	1485	1485										
	P ₄	1445	1473	1900	1933										
10	P ₁	399	433	500	540										
	P ₂	704	765	883	952										
	P ₃	1026	1026	1368	1368										
	P ₄	1331	1357	1751	1781										
11.2	P ₁	378	410	474	511										
	P ₂	667	724	836	902										
	P ₃	972	972	1296	1296										
	P ₄	1261	1285	1658	1686										
12.5	P ₁		352		439										
	P ₂		622		774										
	P ₃		835		1113										
	P ₄		1104		1448										

* Thermal Capacity On Request

- P₁ (kW) Gear units without auxiliary cooling
- P₂ (kW) Gear units with fan
- P₃ (kW) Gear units with built-in cooling coil
- P₄ (kW) Gear units with fan and built-in cooling coil

Nominal Power Rating (kW)

Bevel - Three Stage

Type - K3

i _N	n ₁	n ₂	GEAR UNIT SIZE														
			26A	27	28	29	30	31	32	33	34	35	36	37	38	39	
12.5	1500	120	1659*		2496*		3256*		4341*								
	1000	80	1106		1664		2170		2894								
	750	60	830		1248		1628		2170								
14	1500	107	1558	1663*	2268*	2620*	2986*	3416*	4022*	4566*							
	1000	71	1038	1109	1512	1747	1990	2277	2681	3044							
	750	54	779	831	1134	1310	1493	1708	2011	2283							
16	1500	94	1460*	1565*	2054*	2381*	2908*	3118*	3940*	4163*							
	1000	63	973	1043	1369	1587	1939	2079	2626	2776							
	750	47	730	783	1027	1190	1454	1559	1970	2082							
18	1500	83	1353*	1471*	1785*	2203*	2610*	3004*	3554*	4010*							
	1000	56	902	981	1190	1469	1740	2003	2369	2674							
	750	42	676	735	892	1102	1305	1502	1777	2005							
20	1500	75	1216*	1365*	1637*	1914*	2449*	2677*	3362*	3570*							
	1000	50	811	910	1091	1276	1633	1785	2241	2380	3492*		4653*		6661*		
	750	38	608	682	818	957	1225	1339	1681	1785	2619		3490		4996		
22.4	1500	67	1064*	1232*	1432*	1756*	2128*	2504*	2920*	3322*							
	1000	45	709	821	955	1171	1419	1669	1947	2215	3055*	3487*	4106*	4913*	5872*	6684*	
	750	33	532	616	716	878	1064	1252	1460	1661	2292	2615	3079	3685	4404	5013	
25	1500	60	951*	1078*	1296*	1537*	1946*	2176*	2671*	2886*							
	1000	40	634	719	864	1024	1297	1450	1781	1924	2716*	3051*	3650*	4335*	5293*	5892*	
	750	30	476	539	648	768	973	1088	1336	1443	2037*	2288	2737	3251	3970	4419	
28	1500	54	851*	964*	1133*	1390*	1727*	1990*	2371*	2640*							
	1000	36	567	643	755	927	1152	1327	1580	1760	2444*	2712*	3285*	3853*	4754*	5311*	
	750	27	426	482	566	695	864	995	1185	1320	1833	2034	2463	2890	3565	3983	
31.5	1500	48	740	862*	996	1215*	1480	1766*	2032*	2343*	3188*						
	1000	32	493	575	664	810	987	1177	1354	1562	2125	2441*	2856	3468*	4085*	4770*	
	750	24	370	431	498	607	740	883	1016	1171	1594	1831	2142	2601	3064	3577	
35.5	1500	42	662	750	902	1069	1354	1514	1858*	2008*	2790*	3184*	3808*	4523*	5523*	6148*	
	1000	28	441	500	601	713	903	1009	1239	1339	1860	2123	2539	3016	3682*	4099*	
	750	21	331	375	451	534	677	757	929	1004	1395	1592	1904	2262	2762	3074	
40	1500	38	592	670	788	967	1202	1384	1649*	1836*	2511*	2733*	3427*	4021*	4960*	5542*	
	1000	25	395	447	525	645	801	923	1099	1224	1674	1822	2285	2681	3307*	3695*	
	750	19	296	335	394	484	601	692	825	918	1255	1366	1714	2010	2480	2771	
45	1500	33	524	600	713	845	1056	1229	1450*	1630*	2232*	2459*	3013*	3619*	4325*	4977*	
	1000	22	349	400	475	563	704	819	967	1087	1488	1640	2009	2413	2883*	3318*	
	750	17	262	300	357	423	528	614	725	815	1116	1230	1507	1809	2163	2489	
50	1500	30	478	531	651	765	978	1080	1342	1433*	2015*	2186*	2750*	3181*	3989*	4340*	
	1000	20	319	354	434	510	652	720	895	955	1343	1457	1834	2121	2659	2893*	
	750	15	239	266	326	383	489	540	671	716	1007	1093	1375	1591	1995	2170	
56	1500	27	428	484	569	698	868	1000	1191	1326	1813*	1974*	2475*	2904*	3582*	4003*	
	1000	18	285	323	379	466	579	667	794	884	1209	1316	1650	1936	2388	2668	
	750	13	214	242	285	349	434	500	596	663	907	987	1238	1452	1791	2001	
63	1500	24	379	433	515	610	763	887	1047	1177	1612*	1776*	2176*	2614*	3124*	3595*	
	1000	16	252	289	343	407	509	592	698	785	1075	1184	1451	1742	2083	2396	
	750	12	189	217	258	305	381	444	524	589	806	888	1088	1307	1562	1797	
71	1500	21	331	384	451	553	677	780	929	1035	1395*	1579*	1771*	2298*	2582*	3134*	
	1000	14	221	256	301	368	451	520	619	690	930	1053	1181	1532	1721	2090	
	750	11	165	192	225	276	338	390	465	517	697	789	886	1149	1291	1567	
80	1500	19		335		484		692		918		1366*		1776*		2593*	
	1000	13		223		322		461		612		911		1184		1729	
	750	9		168		242		346		459		683		888		1296	

* Forced lubrication required

Thermal Capacity (kW) Bevel-Helical - Three Stage Type-K3 Speed-750 RPM

i _N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
12.5	P ₁	240		288		372		431							
	P ₂	424		509		656		761							
	P ₃	695		927		*		*							
	P ₄	879		1148		*		*							
14	P ₁	240	250	288	316	372	406	431	474						
	P ₂	423	441	508	558	656	716	760	836						
	P ₃	695	695	927	927	*	*	*	*						
	P ₄	878	886	1147	1168	*	*	*	*						
16	P ₁	255	265	306	336	394	431	457	503						
	P ₂	449	468	540	593	696	761	807	888						
	P ₃	738	738	984	984	*	*	*	*						
	P ₄	933	941	1218	1241	*	*	*	*						
18	P ₁	255	266	306	336	395	432	458	504						
	P ₂	450	469	540	593	697	762	808	889						
	P ₃	739	739	985	985	*	*	*	*						
	P ₄	934	942	1219	1242	*	*	*	*						
20	P ₁	251	261	301	331	389	425	451	496	608					
	P ₂	443	461	532	584	686	749	795	875	1073					
	P ₃	727	727	969	969	*	*	*	*	*					
	P ₄	919	927	1199	1222	*	*	*	*	*					
22.4	P ₁	232	241	278	305	359	392	416	457	561	620				
	P ₂	409	426	491	539	633	692	734	807	990	1095				
	P ₃	671	671	894	894	*	*	*	*	*	*				
	P ₄	848	855	1107	1128	*	*	*	*	*	*				
25	P ₁	222	231	266	292	343	375	398	438	537	594				
	P ₂	391	408	470	516	606	662	703	773	948	1048				
	P ₃	642	642	856	856	*	*	*	*	*	*				
	P ₄	812	819	1060	1080	*	*	*	*	*	*				
28	P ₁	223	232	268	294	345	377	400	441	540	597				
	P ₂	393	410	472	519	609	666	707	777	954	1054				
	P ₃	646	646	861	861	*	*	*	*	*	*				
	P ₄	816	824	1066	1086	*	*	*	*	*	*				
31.5	P ₁	205	214	246	271	318	347	368	405	497	550				
	P ₂	362	377	435	477	561	613	650	715	877	970				
	P ₃	594	594	792	792	*	*	*	*	*	*				
	P ₄	751	758	981	999	*	*	*	*	*	*				
35.5	P ₁	199	207	239	263	308	337	358	393	483	533				
	P ₂	351	366	422	463	544	595	631	694	852	941				
	P ₃	577	577	769	769	*	*	*	*	*	*				
	P ₄	729	735	952	970	*	*	*	*	*	*				
40	P ₁	213	222	256	281	330	361	383	421	517	571				
	P ₂	376	392	452	496	583	637	676	744	912	1008				
	P ₃	618	618	824	824	*	*	*	*	*	*				
	P ₄	781	788	1020	1039	*	*	*	*	*	*				
45	P ₁	213	221	255	280	329	360	382	420	515	570				
	P ₂	375	391	450	495	581	635	674	741	909	1005				
	P ₃	616	616	821	821	*	*	*	*	*	*				
	P ₄	778	785	1016	1036	*	*	*	*	*	*				
50	P ₁	209	217	250	275	323	353	375	412	506	559				
	P ₂	368	384	442	486	570	623	661	727	892	986				
	P ₃	604	604	806	806	*	*	*	*	*	*				
	P ₄	764	771	997	1016	*	*	*	*	*	*				
56	P ₁	212	221	255	280	329	360	382	420	515	569				
	P ₂	375	391	450	494	581	634	673	741	909	1004				
	P ₃	615	615	821	821	*	*	*	*	*	*				
	P ₄	778	785	1016	1035	*	*	*	*	*	*				
63	P ₁	194	202	233	256	300	328	348	383	470	520				
	P ₂	342	357	411	451	530	579	615	676	830	917				
	P ₃	562	562	749	749	*	*	*	*	*	*				
	P ₄	710	716	927	945	*	*	*	*	*	*				
71	P ₁	202	210	242	266	312	341	362	398	489	540				
	P ₂	356	371	427	469	551	602	639	703	863	954				
	P ₃	584	584	779	779	*	*	*	*	*	*				
	P ₄	739	745	964	983	*	*	*	*	*	*				
80	P ₁		176		223		286		334		452				
	P ₂		310		393		504		589		798				
	P ₃		489		652		*		*		*				
	P ₄		624		822		*		*		*				

* Thermal Capacity On Request

Thermal Capacity (kW) Bevel-Helical - Three Stage Type-K3 Speed-1000 RPM

i _N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
12.5	P ₁	261		313		404		469							
	P ₂	460		553		713		827							
	P ₃	756		1008		*		*							
	P ₄	955		1247		*		*							
14	P ₁	261	272	313	344	404	441	469	515						
	P ₂	460	480	553	607	713	779	827	909						
	P ₃	756	756	1008	1008	*	*	*	*						
	P ₄	955	964	1247	1271	*	*	*	*						
16	P ₁	262	272	314	345	405	443	470	517						
	P ₂	461	481	554	609	715	781	829	912						
	P ₃	758	758	1010	1010	*	*	*	*						
	P ₄	958	966	1250	1274	*	*	*	*						
18	P ₁	250	261	301	330	388	424	450	495						
	P ₂	442	460	531	583	684	748	794	873						
	P ₃	726	726	967	967	*	*	*	*						
	P ₄	917	925	1197	1220	*	*	*	*						
20	P ₁	253	264	304	334	392	429	455	500	614					
	P ₂	447	466	537	589	692	756	803	883	1083					
	P ₃	734	734	978	978	*	*	*	*	*					
	P ₄	927	936	1211	1234	*	*	*	*	*					
22.4	P ₁	247	258	297	326	383	419	444	489	600	663				
	P ₂	436	455	524	576	676	739	784	862	1058	1169				
	P ₃	717	717	955	955	*	*	*	*	*	*				
	P ₄	906	914	1183	1205	*	*	*	*	*	*				
25	P ₁	241	251	289	318	373	408	433	476	584	646				
	P ₂	425	443	511	561	659	720	764	840	1031	1139				
	P ₃	698	698	931	931	*	*	*	*	*	*				
	P ₄	883	890	1152	1174	*	*	*	*	*	*				
28	P ₁	245	255	294	323	379	414	439	483	593	655				
	P ₂	431	450	518	569	668	730	775	853	1046	1156				
	P ₃	708	708	945	945	*	*	*	*	*	*				
	P ₄	895	903	1169	1191	*	*	*	*	*	*				
31.5	P ₁	212	221	255	280	328	359	381	419	514	568				
	P ₂	374	390	449	494	580	633	672	739	907	1003				
	P ₃	614	614	819	819	*	*	*	*	*	*				
	P ₄	777	783	1014	1033	*	*	*	*	*	*				
35.5	P ₁	203	211	243	267	314	343	364	400	491	543				
	P ₂	358	373	429	472	554	605	642	707	867	958				
	P ₃	587	587	783	783	*	*	*	*	*	*				
	P ₄	742	748	969	987	*	*	*	*	*	*				
40	P ₁	208	217	250	274	322	352	374	411	504	558				
	P ₂	367	383	441	484	569	621	660	726	890	984				
	P ₃	603	603	804	804	*	*	*	*	*	*				
	P ₄	762	769	995	1014	*	*	*	*	*	*				
45	P ₁	197	205	236	259	304	333	353	388	476	527				
	P ₂	347	361	416	457	537	587	623	685	841	929				
	P ₃	569	569	759	759	*	*	*	*	*	*				
	P ₄	720	726	940	957	*	*	*	*	*	*				
50	P ₁	207	215	248	273	320	350	371	408	501	554				
	P ₂	365	380	438	481	565	617	655	721	884	977				
	P ₃	599	599	799	799	*	*	*	*	*	*				
	P ₄	757	764	988	1007	*	*	*	*	*	*				
56	P ₁	207	215	248	273	320	350	371	408	501	554				
	P ₂	374	390	449	493	579	633	672	739	906	1002				
	P ₃	614	614	819	819	*	*	*	*	*	*				
	P ₄	781	788	1019	1039	*	*	*	*	*	*				
63	P ₁	205	214	246	270	317	347	368	405	497	549				
	P ₂	362	377	434	477	560	612	650	715	877	969				
	P ₃	594	594	792	792	*	*	*	*	*	*				
	P ₄	751	757	980	999	*	*	*	*	*	*				
71	P ₁	209	217	250	275	323	353	375	412	505	559				
	P ₂	368	383	442	485	570	623	661	727	892	986				
	P ₃	604	604	806	806	*	*	*	*	*	*				
	P ₄	764	770	997	1016	*	*	*	*	*	*				
80	P ₁		189		239		307		358		486				
	P ₂		333		422		542		632		857				
	P ₃		525		700		*		*		*				
	P ₄		670		883		*		*		*				

* Thermal Capacity On Request

Thermal Capacity (kW) Bevel-Helical - Three Stage Type-K3 Speed-1500 RPM

i _N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
12.5	P ₁	288		346		446		517							
	P ₂	508		610		787		913							
	P ₃	835		1113		*		*							
	P ₄	1055		1377		*		*							
14	P ₁	288	300	346	380	447	488	518	570						
	P ₂	509	530	611	671	788	861	914	1005						
	P ₃	835	835	1114	1114	*	*	*	*						
	P ₄	1056	1065	1379	1405	*	*	*	*						
16	P ₁	290	302	348	382	449	490	520	572						
	P ₂	511	532	614	674	792	865	918	1010						
	P ₃	839	839	1119	1119	*	*	*	*						
	P ₄	1060	1070	1384	1411	*	*	*	*						
18	P ₁	279	290	335	368	432	472	501	551						
	P ₂	492	513	591	649	762	833	884	972						
	P ₃	808	808	1077	1077	*	*	*	*						
	P ₄	1021	1030	1333	1358	*	*	*	*						
20	P ₁	272	283	326	358	421	460	488	537	659					
	P ₂	480	500	576	633	743	812	862	948	1163					
	P ₃	787	787	1050	1050	*	*	*	*	*					
	P ₄	995	1004	1299	1324	*	*	*	*	*					
22.4	P ₁	253	264	304	334	392	428	455	500	614	678				
	P ₂	447	465	536	589	692	756	802	883	1083	1197				
	P ₃	733	733	978	978	*	*	*	*	*	*				
	P ₄	927	935	1210	1233	*	*	*	*	*	*				
25	P ₁	244	255	293	322	378	414	439	483	592	655				
	P ₂	431	449	518	569	668	730	774	852	1045	1155				
	P ₃	708	708	944	944	*	*	*	*	*	*				
	P ₄	895	903	1168	1190	*	*	*	*	*	*				
28	P ₁	243	253	292	321	377	412	437	481	590	652				
	P ₂	429	447	515	566	665	726	771	848	1041	1150				
	P ₃	705	705	940	940	*	*	*	*	*	*				
	P ₄	891	899	1163	1185	*	*	*	*	*	*				
31.5	P ₁	235	245	282	310	364	397	422	464	569	629				
	P ₂	414	431	497	546	642	701	744	818	1004	1110				
	P ₃	680	680	907	907	*	*	*	*	*	*				
	P ₄	859	867	1122	1143	*	*	*	*	*	*				
35.5	P ₁	232	242	279	306	359	393	417	459	563	622				
	P ₂	410	427	492	540	634	693	736	809	993	1097				
	P ₃	672	672	897	897	*	*	*	*	*	*				
	P ₄	850	857	1110	1131	*	*	*	*	*	*				
40	P ₁	235	245	282	310	364	398	422	464	569	629				
	P ₂	414	432	498	547	642	702	745	819	1005	1111				
	P ₃	681	681	907	907	*	*	*	*	*	*				
	P ₄	860	868	1123	1144	*	*	*	*	*	*				
45	P ₁	215	224	258	283	333	363	386	424	520	575				
	P ₂	379	395	455	500	587	641	681	749	918	1015				
	P ₃	622	622	829	829	*	*	*	*	*	*				
	P ₄	786	793	1027	1046	*	*	*	*	*	*				
50	P ₁	213	222	256	281	330	361	383	421	517	571				
	P ₂	376	392	452	496	583	637	676	743	912	1008				
	P ₃	618	618	824	824	*	*	*	*	*	*				
	P ₄	781	787	1019	1039	*	*	*	*	*	*				
56	P ₁	214	223	257	282	331	362	384	422	518	572				
	P ₂	377	393	453	497	584	638	677	745	914	1010				
	P ₃	619	619	825	825	*	*	*	*	*	*				
	P ₄	782	789	1021	1041	*	*	*	*	*	*				
63	P ₁	196	204	236	259	304	332	352	388	476	526				
	P ₂	346	361	416	457	536	586	622	684	839	927				
	P ₃	568	568	758	758	*	*	*	*	*	*				
	P ₄	718	725	938	956	*	*	*	*	*	*				
71	P ₁	201	210	242	265	312	340	361	397	488	539				
	P ₂	355	370	426	468	550	601	638	701	860	951				
	P ₃	583	583	777	777	*	*	*	*	*	*				
	P ₄	737	743	962	980	*	*	*	*	*	*				
80	P ₁		188		239		306		357		485				
	P ₂		333		421		540		631		855				
	P ₃		524		699		*		*		*				
	P ₄		668		881		*		*		*				

* Thermal Capacity On Request

Nominal Power Rating (kW)

Bevel - Four Stage

Type - K4

i _N	n ₁	n ₂	GEAR UNIT SIZE													
			26A	27	28	29	30	31	32	33	34	35	36	37	38	39
80	1500	19	300		404		617		840*		1309*		1704*		2452*	
	1000	13	200		270		411		560		873		1136		1634	
	750	9	150		202		308		420		655		852		1226	
90	1500	17	263	304	354	434	540	631	730*	831*	1146*	1308*	1522*	1717*	2161*	2470*
	1000	11	175	203	236	289	360	421	487	554	764	872	1014	1145	1441	1647
	750	8	131	152	177	217	270	315	365	415	573	654	761	859	1081	1235
100	1500	15	235	266	316	380	488	552	668*	722*	1018*	1144*	1369*	1531*	1940*	2178*
	1000	10	157	178	211	253	326	368	445	481	679	763	912	1021	1294	1452
	750	8	118	133	158	190	244	276	334	361	509	572	684	765	970	1089
112	1500	13	210	238	283	339	427	499	593*	660*	917*	1017*	1232*	1389*	1742*	1963*
	1000	9	140	159	189	226	285	333	395	440	611	678	821	926	1162	1309
	750	7	105	119	142	170	213	250	296	330	458	509	616	694	871	981
125	1500	12	183	213	246	304	375	436	508	586*	797	915*	1071	1250*	1491*	1763*
	1000	8	122	142	164	202	250	291	339	390	531	610	714	833	994	1175
	750	6	91	107	123	152	188	218	254	293	399	458	536	625	746	881
140	1500	11	163	185	220	264	340	384	465	502	708	796	952	1131	1344*	1515*
	1000	7	109	124	147	176	226	256	310	335	472	531	635	754	896	1010
	750	5	82	93	110	132	170	192	232	251	354	398	476	565	672	757
160	1500	9	146	166	197	236	297	347	412	459	638	708	857	1005	1202*	1365*
	1000	6	98	110	131	157	198	232	275	306	425	472	571	670	801	910
	750	5	73	83	98	118	148	174	206	230	319	354	428	503	601	683
180	1500	8	130	148	174	211	269	304	362	407	567	637	753	905	1048*	1226*
	1000	6	86	99	116	141	179	202	242	272	378	425	502	603	699	818
	750	4	65	74	87	106	134	152	181	204	283	318	377	452	524	613
200	1500	8	118	131	159	187	245	271	336	358	512	566	688	795	963	1069*
	1000	5	79	87	106	125	164	181	224	239	341	377	458	530	642	713
	750	4	59	66	79	94	123	135	168	179	256	283	344	398	481	535
224	1500	7	106	120	142	171	214	251	298	332	461	511	619	726	865	986
	1000	4	70	80	95	114	143	167	199	221	307	341	413	484	576	657
	750	3	53	60	71	85	107	125	149	166	230	256	309	363	432	493
250	1500	6	94	107	126	153	194	219	262	294	409	460	544	653	751	886
	1000	4	62	71	84	102	129	146	175	196	273	307	363	436	501	590
	750	3	47	54	63	76	97	110	131	147	205	230	272	327	375	443
280	1500	5	82	95	110	135	170	196	232	259	354	409	476	574	664	772
	1000	4	54	63	73	90	113	130	155	172	236	273	317	383	443	515
	750	3	41	47	55	68	85	98	116	129	177	204	238	287	332	386
315	1500	5	73	83	98	118	148	174	206	230	319	354	399	503	571	683
	1000	3	49	55	66	79	99	116	137	153	213	236	266	335	381	455
	750	2	37	41	49	59	74	87	103	115	159	177	199	251	286	341
355	1500	4		74		106		152		204		290		400		574
	1000	3		49		70		101		136		193		266		382
	750	2		37		53		76		102		145		200		287

* Forced lubrication required

Thermal Capacity (kW) Bevel-Helical - Four Stage Type-K4 Speed-750 RPM

i _N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
80	P ₁	191		214		272		328		430					
90	P ₁	175	187	196	216	249	263	300	329	394	400				
100	P ₁	184	197	206	228	263	278	317	346	415	421				
112	P ₁	187	200	209	231	266	281	321	351	420	427				
125	P ₁	154	164	172	190	219	231	264	289	346	351				
140	P ₁	180	192	201	222	256	271	309	338	405	411				
160	P ₁	185	198	207	229	264	278	318	347	416	423				
180	P ₁	174	187	195	216	249	262	300	328	393	399				
200	P ₁	170	182	190	210	242	255	292	319	382	388				
224	P ₁	173	186	194	215	247	261	298	326	390	396				
250	P ₁	162	173	181	200	231	243	278	304	364	370				
280	P ₁	165	176	184	204	235	248	283	310	371	377				
315	P ₁	167	179	187	207	238	252	287	314	377	382				
355	P ₁		176		204		248		310		377				

Thermal Capacity (kW) Bevel-Helical - Four Stage Type-K4 Speed-1000 RPM

i _N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
80	P ₁	205		229		293		353		462					
90	P ₁	193	206	216	239	275	290	331	362	434	441				
100	P ₁	186	199	208	230	266	280	320	350	419	426				
112	P ₁	180	193	202	223	257	272	310	339	407	413				
125	P ₁	188	202	211	233	269	284	324	354	424	431				
140	P ₁	177	189	198	219	252	266	304	332	398	404				
160	P ₁	184	197	206	228	263	278	317	347	415	422				
180	P ₁	171	183	191	211	243	257	293	321	384	390				
200	P ₁	174	187	195	216	249	263	300	328	393	399				
224	P ₁	179	191	200	221	255	269	307	336	403	409				
250	P ₁	162	174	181	201	231	244	279	305	365	371				
280	P ₁	160	171	179	198	228	241	275	300	360	365				
315	P ₁	163	174	182	202	232	245	280	306	367	372				
355	P ₁		172		199		242		302		367				

Thermal Capacity (kW) Bevel-Helical - Four Stage Type-K4 Speed-1500 RPM

i _N		GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
80	P ₁	205		229		292		352		461					
90	P ₁	209	223	234	258	298	314	359	392	470	477				
100	P ₁	198	212	222	245	283	299	341	373	447	453				
112	P ₁	199	213	222	246	283	299	341	373	447	454				
125	P ₁	194	207	217	240	276	292	333	364	436	443				
140	P ₁	182	195	204	225	259	274	313	342	410	416				
160	P ₁	183	196	205	227	261	276	315	344	413	419				
180	P ₁	171	183	191	211	243	257	293	321	384	390				
200	P ₁	176	188	197	218	251	265	303	331	397	403				
224	P ₁	179	191	200	221	255	269	307	336	403	409				
250	P ₁	168	180	188	208	240	253	289	316	379	385				
280	P ₁	168	179	187	207	239	252	288	315	377	383				
315	P ₁	171	183	192	212	244	258	294	322	386	391				
355	P ₁		181		209		254		317		386				

P₁ (kW) Gear units without auxiliary cooling.

Nominal Output Torque (KNm)

Bevel Helical Unit

Size	i _N	GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
K2	5	106		157											
	5.6	114	117	185	182										
	6.3	130	129	199	200										
	7.1	135	148	199	230										
	8	135	151	199	230										
	9	135	151	199	230										
	10	135	151	199	230										
	11.2	135	151	199	230										
K3	12.5	135	151	199	230	255		340							
	14	140	151	199	235	267	301	360	405						
	16	145	157	203	235	281	314	380	422						
	18	151	163	203	245	294	326	400	438						
	20	153	170	203	245	306	339	420	455	640		860		1230	
	22.4	153	173	203	245	306	352	420	470	640	725	860	1030	1230	1400
	25	153	173	203	245	306	352	420	470	640	725	860	1030	1230	1400
	28	153	173	203	245	306	352	420	470	640	725	860	1030	1230	1400
	31.5	153	173	203	245	306	352	420	470	640	725	860	1030	1230	1400
	35.5	153	173	203	245	306	352	420	470	630	725	860	1030	1230	1400
	40	153	173	203	245	306	352	420	470	630	700	860	1030	1230	1400
	45	153	173	203	245	306	352	420	470	630	700	860	1030	1230	1400
	50	153	173	203	245	306	352	420	470	630	700	860	1030	1230	1400
	56	153	173	203	245	306	352	420	470	630	700	860	1030	1230	1400
	63	153	173	203	245	306	352	420	470	630	700	860	1030	1230	1400
71	153	173	203	245	306	352	420	470	630	700	800	1030	1150	1400	
K4	80	153	173	203	245	306	352	420	470	640	700	840	910	1225	1310
	90	153	173	203	245	306	352	420	470	640	725	850	960	1225	1400
	100	153	173	203	245	306	352	420	470	640	725	860	970	1220	1400
	112	153	173	203	245	306	352	420	470	640	725	860	990	1220	1400
	125	153	173	203	245	306	352	420	470	640	725	860	990	1215	1400
	140	153	173	203	245	306	352	420	470	640	725	860	1030	1215	1400
	160	153	173	203	245	306	352	420	470	640	725	860	1030	1210	1400
	180	153	173	203	245	306	352	420	470	640	725	860	1030	1210	1400
	200	153	173	203	245	306	347	420	470	640	725	860	1030	1205	1400
	224	153	173	203	245	306	352	420	470	640	725	860	1030	1205	1400
	250	153	173	203	245	306	352	420	470	640	725	860	1030	1200	1400
	280	153	173	203	245	306	347	420	470	640	725	860	1030	1200	1400
315	153	173	203	245	306	352	420	470	640	725	800	1030	1150	1400	
355		173		245		352		470		660		910		1310	

Actual Ratios

Helical Unit

Size	i _N	GEAR UNIT SIZE														
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39	
S1	2	2.050		2.000												
	2.24	2.211		2.278												
	2.5	2.526		2.450												
	2.8	2.722		2.833												
	3.15	3.176		3.111												
	3.55	3.526		3.500												
	4	4.059		4.000		4.000										
	4.5	4.438		4.500		4.500										
	5	5.000		5.000		5.000										
	5.6	5.688		5.625		5.688										
S2	6.3	6.426		6.435		6.333		6.333		6.340		6.340		6.381		
	7.1	7.059	7.172	7.238	7.239	7.273	7.125	7.273	7.172	7.132	7.192	7.132	7.192	6.987	7.238	
	8	7.924	7.877	8.000	8.143	8.200	8.182	8.200	8.235	7.882	8.090	7.882	8.090	8.079	7.925	
	9	9.186	8.843	9.000	9.000	8.842	9.225	8.842	9.285	8.977	8.941	8.977	8.941	8.712	9.165	
	10	10.147	10.251	9.905	10.125	10.105	9.947	10.105	10.012	9.656	10.183	9.957	10.183	9.957	9.882	
	11.2	11.210	11.324	11.158	11.143	10.889	11.368	10.889	11.443	11.167	10.953	10.948	11.294	10.729	11.294	
	12.5	12.604	12.510	12.842	12.553	12.706	12.250	12.706	12.330	12.261	12.667	12.480	12.418	12.480	12.170	
	14	14.206	14.065	14.000	14.447	14.105	14.294	14.105	14.388	13.794	13.908	13.910	14.157	13.898	14.157	
	16	16.235	15.853	16.000	15.750	16.235	15.868	16.235	15.972	15.765	15.647	15.765	15.779	15.765	15.765	
	18	18.158	18.118	17.684	18.000	17.750	18.265	17.750	18.384	17.735	17.882	17.735	17.882	17.489	17.882	
20	20.294	20.263	20.235	19.895	20.000	19.969	20.000	20.099	19.706	20.118	19.706	20.118	19.474	19.838		
S3	22.4	22.057	22.647	21.737	22.765	22.892	22.500	22.097	22.647	21.324	22.353	22.584	22.353	22.692	22.090	
	25	24.860	24.614	24.500	24.454	24.957	25.754	24.531	25.022	23.990	24.189	25.171	25.617	25.269	25.740	
	28	28.412	27.743	28.000	27.563	28.522	28.076	28.235	27.778	27.417	27.212	28.527	28.552	28.663	28.663	
	31.5	31.509	31.706	31.053	31.500	32.411	32.087	31.765	31.972	30.654	31.100	30.904	32.359	31.529	32.513	
	35.5	35.515	35.163	35.000	34.934	35.333	36.462	35.263	35.969	34.485	34.771	34.444	35.055	35.110	35.765	
	40	40.588	39.632	40.000	39.375	40.381	39.750	40.588	39.930	39.412	39.118	39.036	39.071	39.827	39.827	
	45	45.395	45.294	44.737	45.000	44.632	45.429	44.375	45.960	44.338	44.706	43.916	44.280	44.183	45.176	
	50	50.059	50.658	49.333	50.329	49.368	50.211	49.368	50.248	48.279	50.294	48.685	49.815	49.008	50.118	
	56	57.210	55.863	56.381	55.500	56.421	55.539	56.824	55.902	55.176	54.765	55.176	55.225	55.591	55.591	
	63	63.985	63.843	63.058	63.429	62.360	63.474	62.125	64.344	62.074	62.588	62.074	62.588	61.672	63.059	
	71	70.240	71.404	69.222	70.940	70.737	70.155	70.526	70.347	68.971	70.412	70.368	70.412	69.489	69.956	
80	80.275	78.384	79.111	77.875	80.842	79.579	81.176	79.861	78.824	78.235	79.751	79.821	78.824	78.824		
90	89.781	89.582	88.480	89.000	89.352	90.947	88.750	91.920	88.676	89.412	89.720	90.464	87.445	89.412		
S4	100	99.519	100.190	98.077	99.539	99.826	100.521	98.737	100.496	96.559	100.588	99.185	101.772	98.102	99.191	
	112	113.736	111.058	112.088	110.337	114.087	112.304	113.647	111.805	110.353	109.529	112.409	112.508	111.280	111.280	
	125	127.205	126.923	125.361	126.099	126.096	128.348	124.250	128.689	124.147	125.176	126.460	127.509	123.452	126.228	
	140	146.364	141.953	144.242	141.032	138.783	141.858	141.053	140.695	137.941	140.824	140.425	143.448	141.022	140.035	
	160	167.273	163.333	164.848	162.273	158.609	156.130	162.353	159.721	157.647	156.471	159.148	159.288	159.965	159.965	
	180	187.081	186.667	184.370	185.455	175.304	178.435	177.500	183.841	177.353	178.824	179.042	180.527	177.462	181.453	
	200	199.737	208.772	196.842	207.416	196.000	197.217	198.817	200.993	194.431	201.176	196.205	203.092	197.431	201.300	
	224	228.271	222.895	224.962	221.447	224.000	220.500	228.840	225.131	222.207	220.549	222.365	222.561	223.952	223.952	
	250	255.303	254.737	251.603	253.083	247.579	252.000	250.190	259.128	249.983	252.056	250.161	252.235	248.446	254.035	
	280	292.063	284.903	287.831	283.053	289.882	278.526	293.944	283.304	285.424	283.563	282.105	283.765	286.254	281.820	
	315	326.650	325.926	321.916	323.810	320.396	326.118	321.368	332.849	321.102	323.765	317.368	320.000	317.563	324.706	
	355	365.079	364.522	359.788	362.155	366.616	360.446	362.105	363.902	356.780	364.235	352.632	360.000	353.608	360.221	
400		407.407		404.762		412.443		410.031		404.706		400.000		401.107		

Actual Ratios

Bevel Helical Unit

Size	i _N	GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
K2	5	5.053		4.900											
	5.6	5.444	5.579	5.667	5.600										
	6.3	6.353	6.111	6.222	6.333										
	7.1	7.053	7.176	7.000	7.000										
	8	8.118	8.000	8.000	7.889										
	9	8.875	9.059	9.000	9.000										
	10	9.765	9.875	9.692	10.000										
	11.2	11.240	11.077	11.077	10.923										
K3	12.5	12.780	12.543	12.522	12.462	12.302		12.302							
	14	14.118	14.262	13.781	14.087	14.059	13.840	14.059	13.930						
	16	15.597	15.754	15.524	15.503	15.150	15.817	15.150	15.920						
	18	17.536	17.405	17.867	17.465	17.678	17.043	17.678	17.155						
	20	19.765	19.569	19.478	20.101	19.625	19.887	19.625	20.017	19.192		19.353		19.336	
	22.4	22.588	22.056	22.261	21.913	22.588	22.078	22.588	22.222	21.934	21.770	21.934	21.953	21.934	21.934
	25	25.263	25.207	24.604	25.043	24.696	25.412	24.696	25.578	24.675	24.880	24.675	24.880	24.332	24.880
	28	28.235	28.192	28.153	27.680	27.826	27.783	27.826	27.964	27.417	27.990	27.417	27.990	27.094	27.601
	31.5	32.471	31.509	32.000	31.673	32.471	31.304	32.471	31.509	31.529	31.100	31.529	31.100	31.529	30.734
	35.5	36.316	36.235	35.368	36.000	35.500	36.529	35.500	36.768	35.471	35.765	35.471	35.765	34.978	35.765
	40	40.588	40.526	40.471	39.789	40.000	39.938	40.000	40.199	39.412	40.235	39.412	40.235	38.948	39.676
	45	45.841	45.294	44.706	45.529	45.500	45.000	45.500	45.294	44.338	44.706	44.831	44.706	44.667	44.180
	50	50.283	51.156	48.972	50.294	49.154	51.188	49.154	51.522	49.113	50.294	49.113	50.853	48.431	50.667
	56	56.199	56.113	56.036	55.093	55.385	55.298	55.385	55.660	54.570	55.710	54.570	55.710	53.928	54.937
	63	63.472	62.715	61.900	63.041	63.000	62.308	63.000	62.715	61.391	61.900	62.074	61.900	61.846	61.172
71	72.632	70.831	70.737	69.638	71.000	70.875	71.000	71.338	70.941	69.638	70.941	70.412	69.956	70.154	
K4	80	80.000	81.053	78.841	79.579	77.913	79.875	78.499	80.397	76.767	80.471	77.412	80.471	78.482	79.353
	90	91.429	89.275	90.104	88.696	89.043	87.652	90.353	88.888	87.734	87.079	87.734	87.811	89.024	89.024
	100	102.256	102.029	100.774	101.366	98.416	100.174	98.783	102.311	98.701	99.519	98.701	99.519	98.761	100.983
	112	114.286	114.111	112.629	113.370	112.614	110.719	111.304	111.857	109.668	111.959	109.668	111.959	109.971	112.028
	125	131.429	127.536	129.524	126.708	128.000	126.691	129.882	126.036	126.118	124.399	126.118	124.399	127.972	124.743
	140	146.992	146.667	144.862	145.714	141.474	144.000	142.000	147.073	141.882	143.059	141.882	143.059	141.969	145.163
	160	164.286	164.035	161.905	162.970	161.882	159.158	160.000	160.794	157.647	160.941	157.647	160.941	158.083	161.040
	180	185.546	183.333	182.857	182.143	178.824	182.118	182.000	181.176	177.353	178.824	179.324	178.824	181.294	179.319
	200	203.528	207.059	200.578	205.714	195.887	201.176	196.615	206.088	196.452	201.176	196.452	203.412	196.573	205.647
	224	227.473	227.126	224.176	225.651	224.145	220.372	221.538	222.638	218.281	222.842	218.281	222.842	218.885	222.978
	250	256.910	253.846	253.187	252.198	247.602	252.163	252.000	250.860	245.566	247.602	248.294	247.602	251.023	248.287
	280	293.985	286.697	289.724	284.835	282.947	278.552	284.000	285.353	283.765	278.552	283.765	281.647	283.939	284.742
	315	328.571	328.070	323.810	325.940	323.765	318.316	320.000	321.588	315.294	321.882	315.294	321.882	316.167	322.080
	355		366.667		364.286		364.235		362.353		357.647		357.647		358.637

GD Square values (kg-m²)

Helical Unit

Size	i _N	GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
S1	2	33.2344		61.6760											
	2.24	30.8700		53.4232											
	2.5	26.4632		49.1408											
	2.8	24.3056		42.3008											
	3.15	19.9072		31.8696											
	3.55	17.7056		27.4928											
	4	15.1468		23.1736		41.0092									
	4.5	13.6560		18.5408		32.8636									
	5	11.8208		15.8148		28.2496									
	5.6	10.1556		13.3600		23.6340									
S2	6.3	14.0372		25.3588		56.3636		70.4100		116.4936					
	7.1	12.4148	14.9948	21.4608	18.3580	47.1560	59.5940	58.0940	75.4664	98.5932	126.5060				
	8	10.6336	13.2084	18.7096	15.3148	40.0416	49.5996	48.9740	61.9284	86.4488	106.4784				
	9	8.8100	11.2636	15.8952	14.4360	36.6244	41.9600	44.4728	51.9596	72.0724	92.9032				
	10	7.7512	9.2784	13.9756	12.1396	30.6992	38.2692	37.0332	47.0668	60.1872	77.0484				
	11.2	6.7888	8.1352	11.8880	11.4232	27.8528	31.9524	33.4984	39.0192	53.6600	69.2952				
	12.5	5.0748	7.1036	9.2228	9.7532	21.2108	28.9288	24.7824	36.0732	43.4456	56.8748				
	14	4.2536	5.3236	8.2396	7.1320	18.4172	22.0524	21.3828	26.0388	36.7664	46.0856				
	16	3.4828	4.4496	6.7396	6.5704	14.5572	19.1064	17.6184	22.4184	30.4008	38.8300				
	18	3.0216	3.6328	5.8152	5.3976	13.4292	15.7300	15.4752	18.0388	25.7468	31.9708				
20	2.5832	3.1416	4.8000	4.4096	11.2524	13.8436	12.9580	16.1188	22.7628	26.9780					
S3	22.4	2.8264	2.6792	3.1568	4.1732	5.9600	11.5792	15.6896	13.4652	21.9820	23.0064				
	25	2.5884	2.8996	2.8252	2.8064	5.5672	6.2092	14.5852	16.1048	19.7600	22.8148				
	28	2.3652	2.6152	2.5184	2.5220	4.9912	5.7768	13.3416	14.9220	17.6444	19.2328				
	31.5	1.6588	2.3488	1.8292	2.2148	3.4860	5.1516	9.1096	13.5960	12.1832	18.1480				
	35.5	1.5260	1.7064	1.6668	1.6432	3.2900	3.6104	8.5752	9.3104	11.1080	12.5864				
	40	1.4068	1.5508	1.5164	1.5040	3.0028	3.3948	7.9736	8.7384	10.0840	10.8528				
	45	1.3704	1.4204	1.4248	1.3536	2.8268	3.0828	7.6380	8.0964	9.3364	10.3280				
	50	0.7872	1.3420	0.8620	1.2736	1.8488	2.8924	4.8908	7.7412	6.2080	9.5292				
	56	0.7252	0.8032	0.7864	0.7844	1.7012	1.9024	4.5840	4.9748	5.6860	6.3708				
	63	0.6880	0.7376	0.7812	0.7088	1.6116	1.7476	4.4128	4.6472	5.2864	5.8104				
	71	0.4396	0.6980	0.4928	0.6684	1.0048	1.6500	2.7580	4.4660	3.3488	5.4028				
	80	0.4084	0.4480	0.4544	0.4548	0.9332	1.1092	2.6076	2.7968	3.0932	3.4272				
90	0.3896	0.4148	0.4308	0.4164	0.8892	1.0284	2.5240	2.6368	2.9064	3.1332					
S4	100	0.4576	0.3948	0.4872	0.3636	0.9292	0.9808	2.4420	2.5484	2.8220	2.9536				
	112	0.4420	0.4616	0.4680	0.4276	0.8932	0.9424	2.3652	2.4628	2.6916	2.8628				
	125	0.4324	0.4448	0.4564	0.4084	0.8712	0.9032	2.3228	2.3812	2.5964	2.7228				
	140	0.2676	0.4348	0.2856	0.3984	0.5796	0.8796	1.4416	2.3356	1.6388	2.6208				
	160	0.2604	0.2696	0.2768	0.2496	0.5612	0.5864	1.4040	1.4516	1.5748	1.6584				
	180	0.2560	0.2620	0.2712	0.2408	0.5496	0.5664	1.3832	1.4116	1.5280	1.5900				
	200	0.1468	0.2552	0.1584	0.2360	0.2960	0.5540	0.7772	1.3896	0.9140	1.5400				
	224	0.1448	0.1736	0.1536	0.1416	0.2868	0.7120	0.7584	0.7824	0.8820	0.9240				
	250	0.1448	0.1476	0.1508	0.1368	0.2808	0.3020	0.7480	0.7624	0.8584	0.8896				
	280	0.1036	0.1452	0.1088	0.1344	0.1952	0.2956	0.5284	0.7512	0.6224	0.8644				
	315	0.1024	0.1040	0.1068	0.0988	0.1916	0.2092	0.4972	0.5308	0.6080	0.6268				
	355	0.1008	0.1028	0.1052	0.0972	0.1880	0.2056	0.4896	0.5240	0.5964	0.6116				
400		0.1016		0.0956		0.2016		0.5160		0.5996					

GD Square values (kg-m²)

Bevel Helical Unit

Size	i _N	GEAR UNIT SIZE													
		26A	27	28	29	30	31	32	33	34	35	36	37	38	39
K2	5	18.4992		34.8276											
	5.6	17.9404	19.6180	32.7164	36.9748										
	6.3	16.8088	18.7832	31.4172	34.8352										
	7.1	16.2420	17.4996	30.0964	33.2768										
	8	15.5848	16.7628	28.8716	31.5272										
	9	15.2032	16.0716	27.9412	30.1272										
	10	7.3632	15.6512	16.2584	29.0620										
	11.2	7.0204	7.6348	15.6200	17.0048										
K3	12.5	9.1080	7.2744	18.3476	15.6784	35.1776		42.0768							
	14	8.5628	9.3068	17.3612	18.8960	32.0704	35.7932	38.2904	43.3308						
	16	7.9408	8.7228	16.2880	17.8140	30.5788	32.5420	36.4912	39.2504						
	18	7.6060	8.0816	15.2028	16.6448	27.6860	30.9852	33.0912	37.3180						
	20	7.1832	7.7100	14.6972	15.4720	26.2252	27.9844	31.3656	33.6984	62.7960					
	22.4	6.7860	7.2648	13.9252	14.9240	24.5616	26.4672	29.4232	31.8584	59.6112	63.7784				
	25	6.5480	6.8484	13.4492	14.0988	23.6196	24.7444	28.3404	29.7948	57.1188	60.3636				
	28	6.3220	6.5988	12.9268	13.5916	22.4848	23.7724	27.0532	28.6516	55.2556	57.7132				
	31.5	2.9024	6.3620	8.1368	13.0352	10.9316	22.6052	16.8076	27.2980	32.3604	55.7372				
	35.5	2.7876	2.9328	7.9064	8.2208	10.4756	10.9252	16.2836	17.0372	31.1540	32.7244				
	40	2.6780	2.8116	7.6536	7.9752	9.9264	10.4548	15.6604	16.4840	30.2524	31.4416				
	45	2.5816	2.6976	7.5056	7.7060	9.4340	9.8900	15.1056	15.8292	29.4412	30.4856				
	50	1.3428	2.5968	2.9932	7.5484	4.9120	9.3844	7.5228	15.2472	15.5164	29.6252				
	56	1.2860	1.3556	2.8612	3.0288	4.6252	4.9500	7.1976	7.6012	15.0460	15.6664				
63	1.2076	1.2960	2.7840	2.8884	4.3684	4.6516	6.9084	7.2596	14.6228	15.1676					
71	0.6332	1.2436	1.5160	2.8064	2.5480	4.3916	3.5920	6.9560	7.5512	15.6664					
K4	80	0.8452	0.6392	1.0032	1.5332	2.6712	2.5664	7.3912	3.6296	7.8872	7.6228				
	90	0.8212	0.8504	0.9728	1.0164	2.6120	2.6928	7.2696	7.4240	7.7024	7.9484				
	100	0.8064	0.8248	0.9544	0.9832	2.5760	2.6096	7.2020	7.2944	7.5452	7.7500				
	112	0.7928	0.8096	0.9380	0.9624	2.5364	2.5896	7.1220	7.2228	7.4280	7.5828				
	125	0.4052	0.7952	0.4368	0.9444	1.1280	2.5468	3.0756	7.1380	3.3284	7.4584				
	140	0.3984	0.4072	0.4292	0.4416	1.1108	1.1268	3.0428	3.0588	3.2524	3.3516				
	160	0.3916	0.4000	0.4216	0.4332	1.0916	1.1172	3.0040	3.0244	3.1956	3.2708				
	180	0.3856	0.3928	0.4144	0.4244	1.0804	1.0964	2.9692	2.9832	3.1448	3.2104				
	200	0.1864	0.3868	0.2136	0.4168	0.5416	1.0844	1.4692	2.9468	1.5356	3.1564				
	224	0.1832	0.1872	0.2092	0.2156	0.5316	0.5448	1.4488	1.4744	1.5072	1.5548				
	250	0.1800	0.1836	0.2056	0.2108	0.5256	0.5340	1.4308	1.4528	1.4888	1.5232				
	280	0.0968	0.1804	0.1080	0.2068	0.2696	0.5280	0.6596	1.4340	0.7460	1.4948				
	315	0.0948	0.9720	1.0600	0.1092	0.2648	0.2712	0.6500	0.6624	0.7316	0.7504				
	355		0.0952		0.1068		0.2664		0.6520		0.7352				

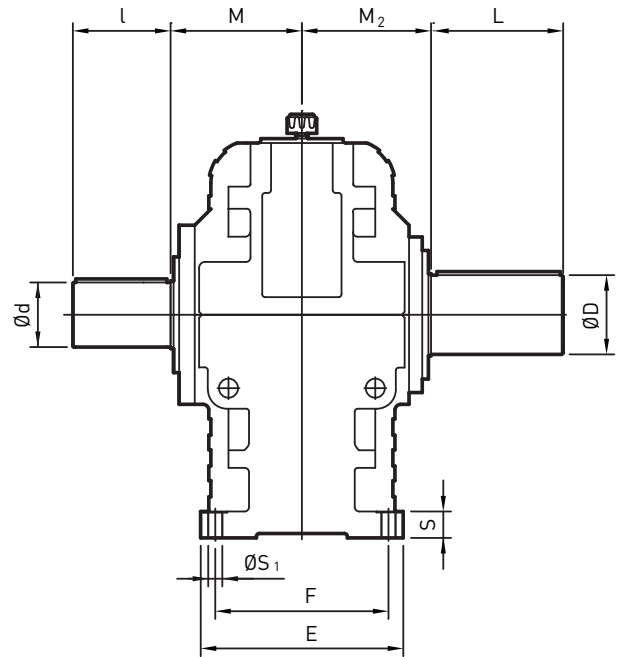
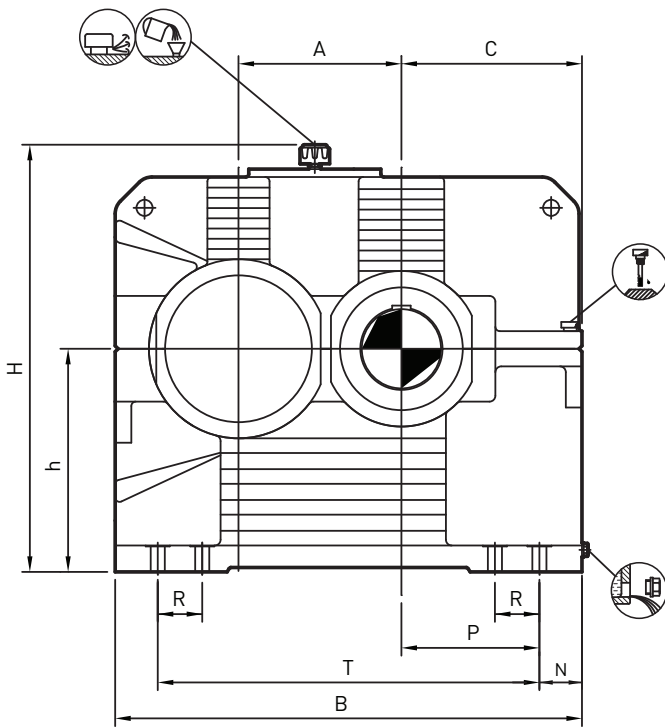
Types S1H

Horizontal Mounting

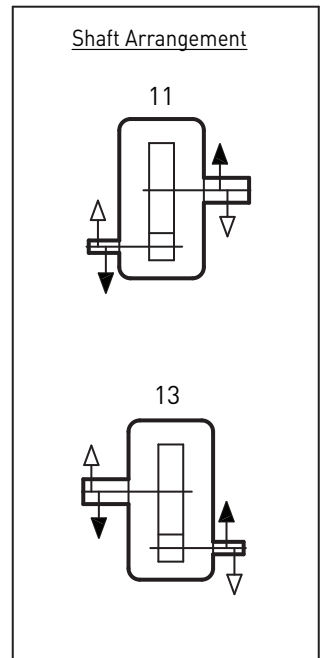
Helical Gear Unit

Single Stage

Size 26A to 30



Size	Input						Output			
	$i_N = 2 \text{ to } 2.8$		$i_N = 3.15 \text{ to } 4$		$i_N = 4.5 \text{ to } 5.6$		M	D	L	M ₂
	d	l	d	l	d	l				
26A	180	320	150	250	125	210	360	220	400	360
28	200	320	170	280	140	250	400	240	410	400
30	220	400	190	320	160	280	440	270	470	440



Size	Gear Units													~Weight (kg.)	~Oil/Quantity (Liters)	
	E	F	S	S ₁	A	B	C	h ₋₁	H'	T	N	P	R			P
26A	545	450	80	48	449	1295	505	600	1175	1010	145	360	-	360	2900	160
28	615	530	80	48	496	1410	545	670	1310	1180	115	430	-	430	3850	230
30	690	590	90	48	555	1590	615	760	1465	1300	145	470	140	470	5250	340

* Approximate values; exact values acc. to order related documents.

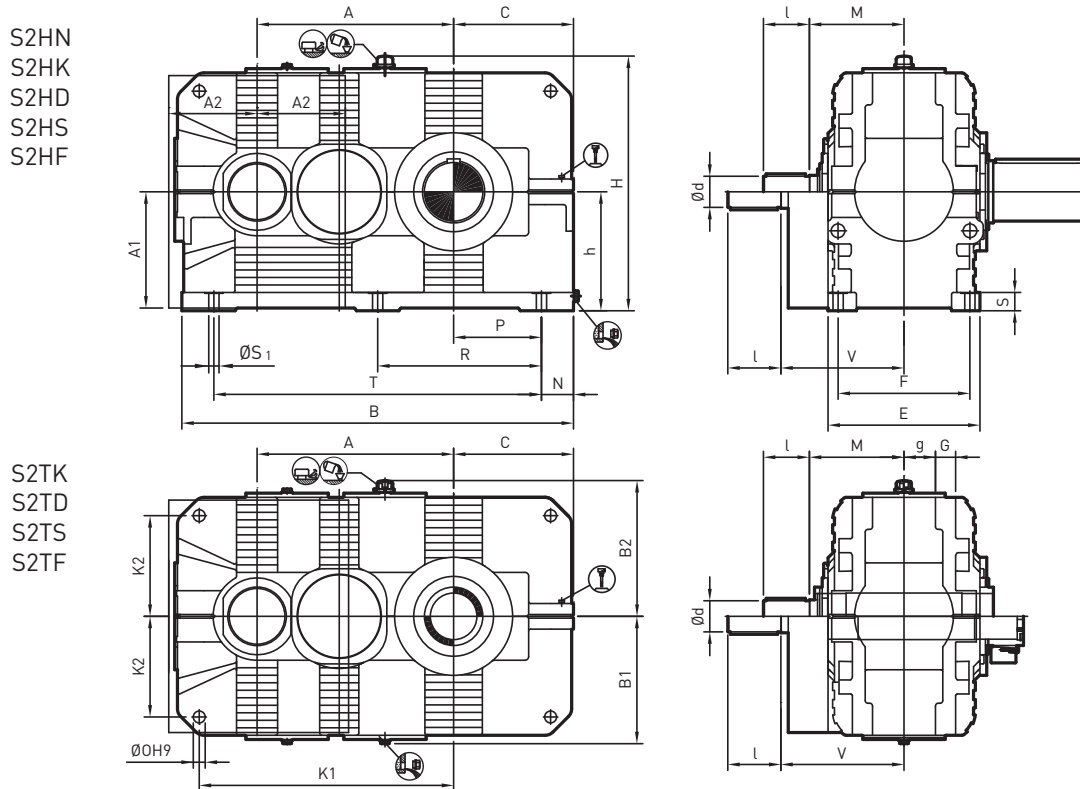
Types S2H, S2T

Horizontal/Torque Arm Mounting

Helical Gear Unit

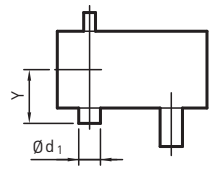
Double Stage

Size 26A to 39



Size	Input				M	Fan				Gear Units							
	$i_N = 6.3 - 11.2$		$i_N = 12.5 - 20$			V	Approx.			E	S	G	O	g	F	S ₁	
	d	l	d	l			A1	A1	A2								
26A	27	120	210	100	180	365	465	450	490	365	625	70	70	55	128	535	42
28	29	125	210	110	180	420	540	500	540	430	690	80	70	55	163	600	42
30	31	150	250	120	210	475	595	570	610	495	790	90	90	65	175	690	48
32	33	170	280	140	250	495	-	-	-	-	830	100	90	75	182	720	56
34	35	190	320	150	250	560	-	-	-	-	930	115	110	80	199	810	56
36	37	200	320	170	280	600	-	-	-	-	1045	130	120	90	225	910	66
38	39	240	410	200	320	670	-	-	-	-	1170	150	135	100	250	1030	74

Shaft Arrangement



For other shaft options Refer separate sheet

Size	Gear Units													Backstop		~Weight (kg.)		~Oil/Quantity (Liters)	
	B	C	A	h ₋₁	H*	N	P	R	T	K1	K2	B1	B2	~ d ₁	~ Y	S2H	S2T		
26A	1550	485	772	460	1035	135	350	640	1280	1004	395	515	575	400	510	3090	2920	205	
27	1640	530	813	500	1115	130	400	750	1380	1040	430	555	615	400	510	3290	3120	220	
28	1740	525	870	510	1135	145	380	725	1450	1135	435	565	625	420	610	4190	3980	285	
29	1860	585	924	550	1215	135	450	810	1590	1165	480	605	665	420	610	4620	4380	305	
30	2010	590	1004	580	1280	160	430	845	1690	1310	490	640	700	460	640	5940	5670	315	
31	2130	650	1059	620	1360	150	500	925	1830	1365	520	680	740	460	640	6750	6480	345	
32	2140	655	1074	650	1415	175	480	895	1790	1390	550	710	765	460	660	8010	7560	315	
33	2250	710	1134	700	1515	160	550	1000	1930	1450	580	760	815	460	660	8640	8280	345	
34	2380	730	1186	740	1595	180	550	1010	2020	1535	595	800	855	540	730	10440	9900	420	
35	2510	795	1256	780	1675	185	610	1145	2140	1610	660	840	895	540	730	11700	11070	460	
36	2645	820	1325	820	1740	210	580	1115	2225	1735	665	865	920	On Request		14040	13320	630	
37	2860	915	1415	860	1875	225	690	1300	2445	1810	745	960	1015				15750	14850	690
38	2990	915	1490	880	1895	265	650	1250	2500	1980	745	960	1015				19800	18900	870
39	3180	1005	1580	950	2040	245	760	1480	2720	2055	825	1035	1090				22500	21420	950

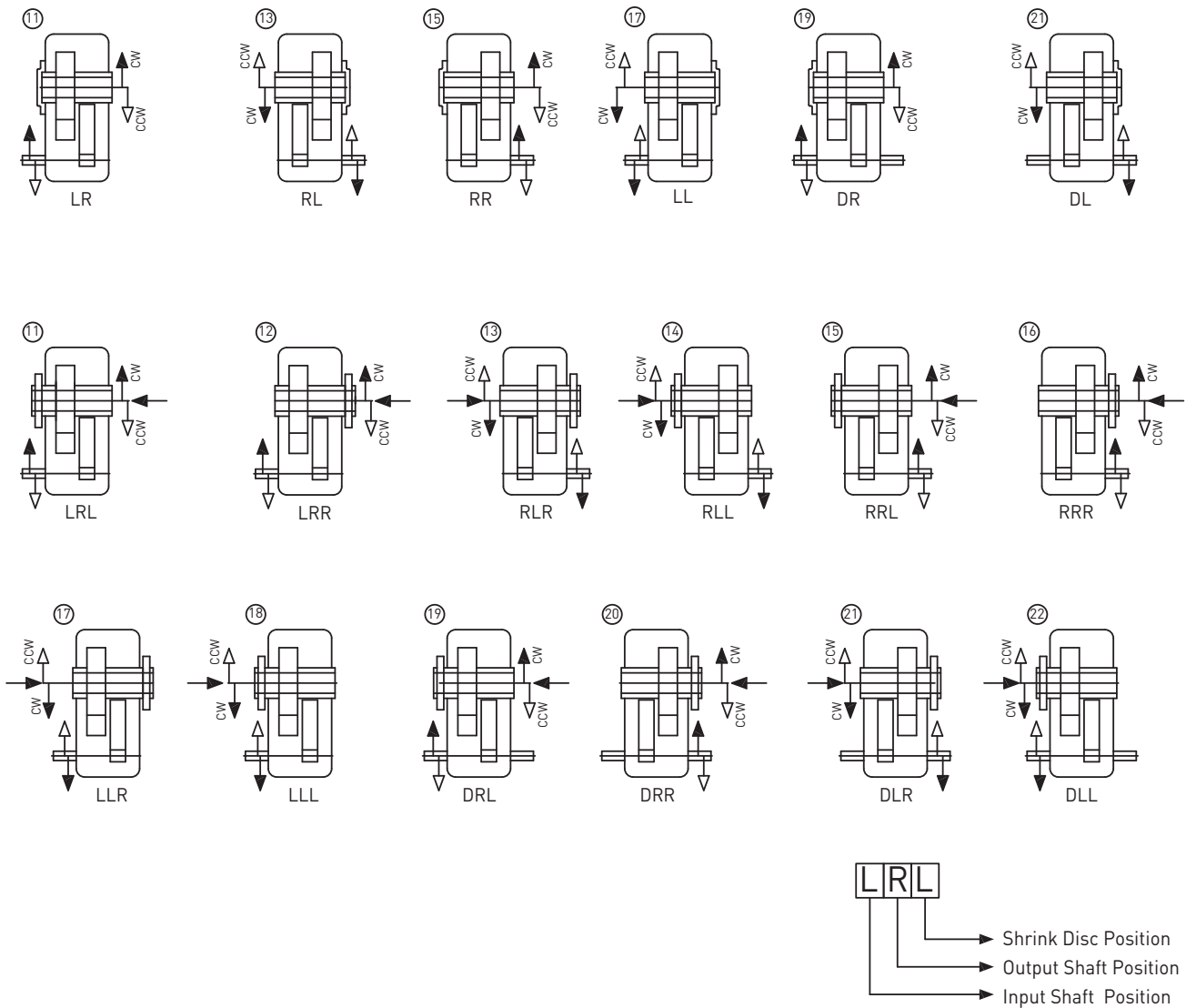
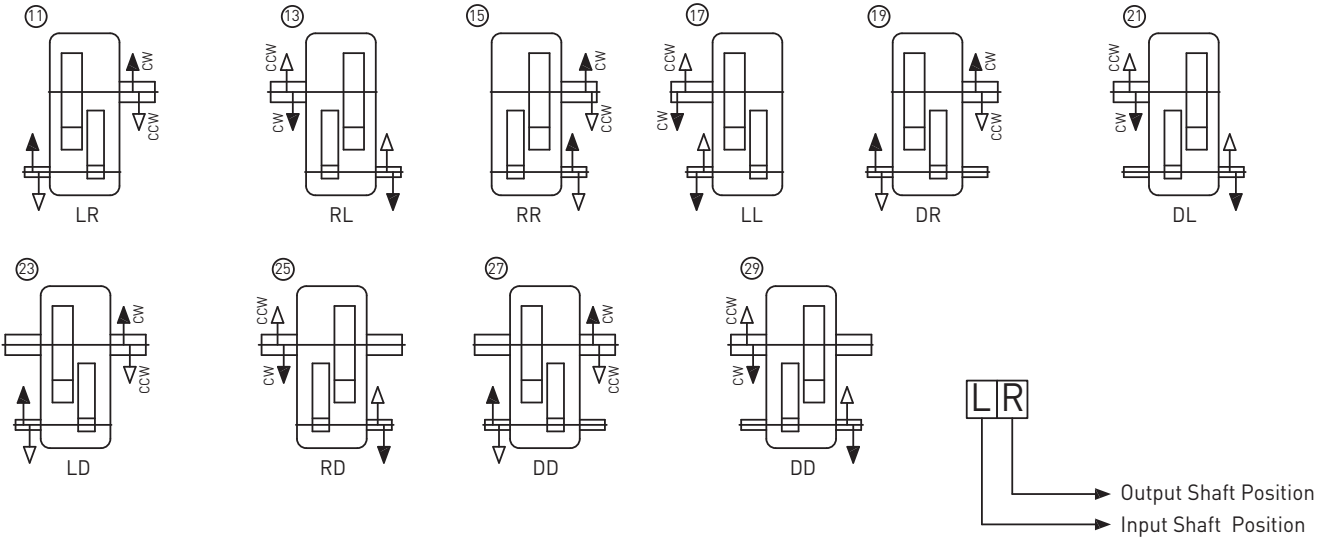
* Approximate values; exact values acc. to order related documents.

Types S2

Double Stage

Shaft Arrangement

Helical Gear Unit

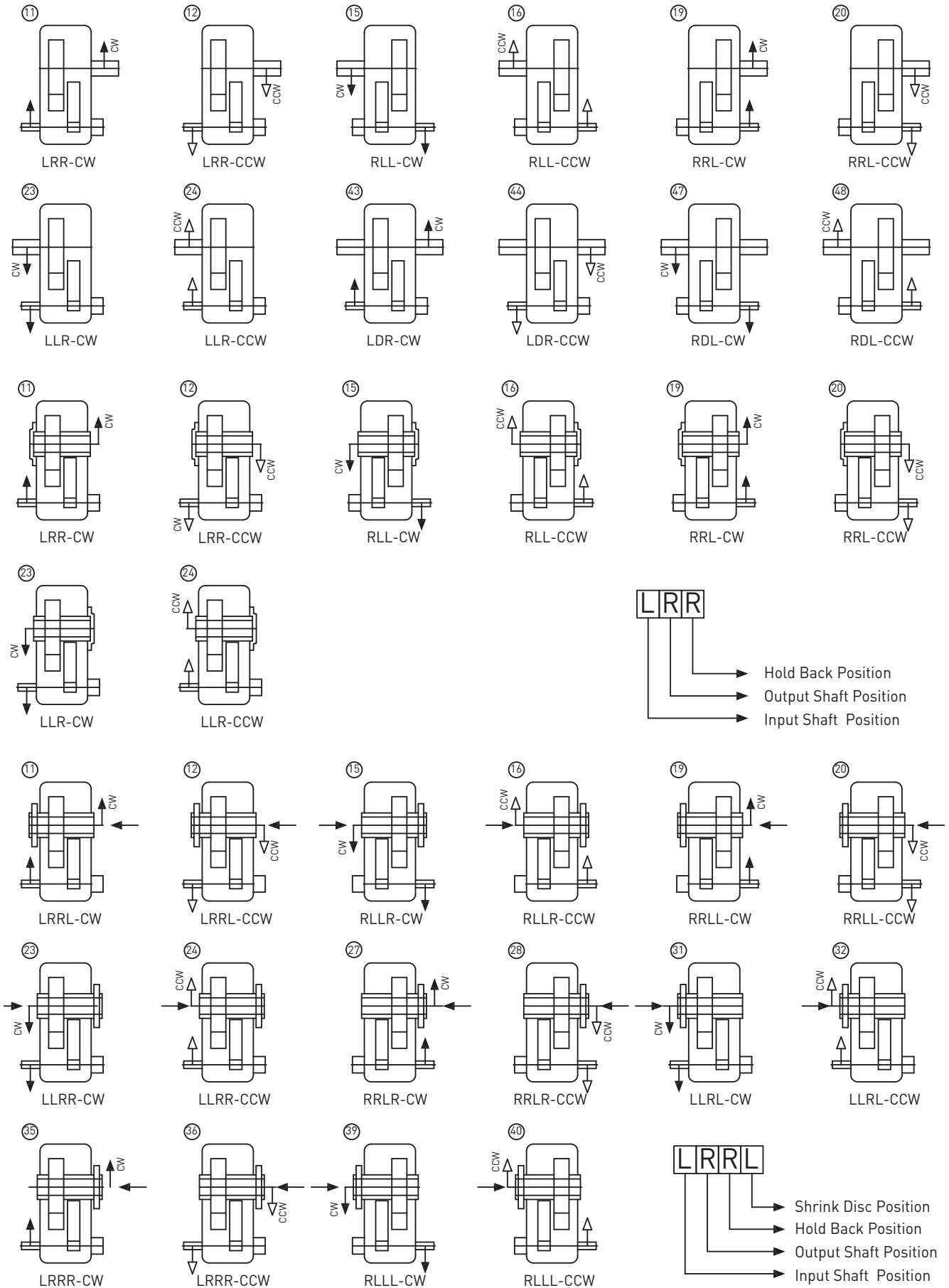


Types S2

Shaft Arrangement - Hold Back

Helical Gear Unit

Double Stage



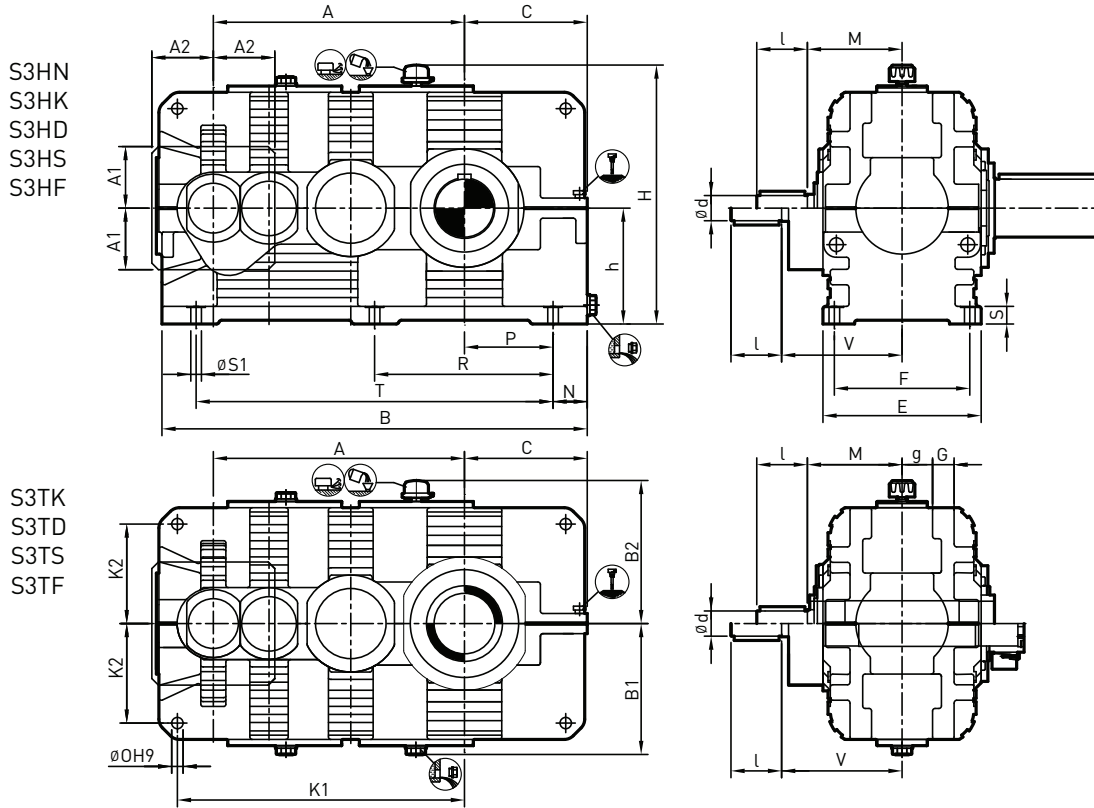
Types S3H, S3T

Horizontal/Torque Arm Mounting

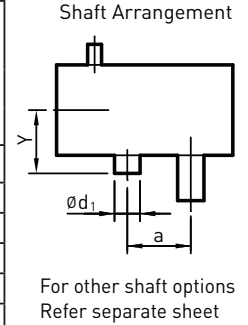
Helical Gear Unit

Triple Stage

Size 26A to 39



Size	Input						Fan						Gear Units						
	$i_N = 22.4 - 45$		$i_N = 50 - 63$		$i_N = 71 - 90$		Approx.												
	d	l	d	l	d	l	M	V	A1	A1	A2	E	S	G	O	g	F	S ₁	
26A	27	100	180	75	120	60	100	350	450	330	330	270	625	70	70	55	128	535	42
28	29	100	180	75	120	60	100	380	480	330	330	270	690	80	70	55	163	600	42
30	31	110	180	90	150	75	120	430	530	380	380	370	790	90	90	65	175	690	48
32	33	130	210	110	180	90	150	470	590	470	470	410	830	100	90	75	182	720	56
34	35	130	210	110	180	90	150	515	635	470	470	410	930	115	110	80	199	810	56
36	37	150	250	130	210	100	180	580	-	-	-	-	1045	130	120	90	225	910	66
38	39	180	320	150	250	125	210	650	-	-	-	-	1170	150	135	100	250	1030	74



For other shaft options Refer separate sheet

Size	Gear Units													Backstop		~Weight (kg.)		~Oil/Quantity (Liters)		
	B	C	A	h_{-1}	H^*	N	P	R	T	K1	K2	B1	B2	$\sim d_1$	$\sim Y$	a	S3H		S3T	
26A	1680	485	992	460	1035	135	350	705	1410	1134	395	515	575	310	500	772	3130	2940	230	
27	1770	530	1033	500	1115	130	400	755	1510	1175	435	555	615	310	500	813	3490	3260	250	
28	1770	525	1039	510	1135	145	380	740	1480	1189	445	565	625	310	540	819	4110	3830	300	
29	1895	585	1093	550	1215	135	450	810	1620	1235	485	605	665	310	540	873	4530	4270	320	
30	2030	590	1199	580	1280	160	430	855	1710	1330	480	640	700	430	600	929	6030	5580	415	
31	2150	650	1254	620	1360	150	500	925	1850	1400	520	680	740	430	600	984	7290	6840	455	
32	2340	655	1397	650	1415	175	480	995	1990	1595	550	710	765	420	680	1074	8190	7650	465	
33	2450	710	1457	700	1515	160	550	1065	2130	1655	580	760	815	420	680	1134	8820	8370	495	
34	2530	730	1509	740	1600	180	550	1085	2170	1695	595	800	860	470	710	1186	10350	9540	610	
35	2660	795	1579	780	1680	185	610	1145	2290	1765	660	845	900	470	710	1256	12060	11250	660	
36	2860	820	1699	820	1740	240	580	1205	2410	1945	665	865	920	On Request		1325	14490	13770	870	
37	3045	915	1789	860	1875	225	690	1415	2630	2025	755	960	1015				1415	15930	15120	945
38	3275	915	1939	880	1895	265	650	1380	2760	2255	745	960	1015				1490	20430	19530	1260
39	3455	1005	2029	950	2040	245	760	1585	2980	2330	825	1035	1090				1580	22950	21780	1355

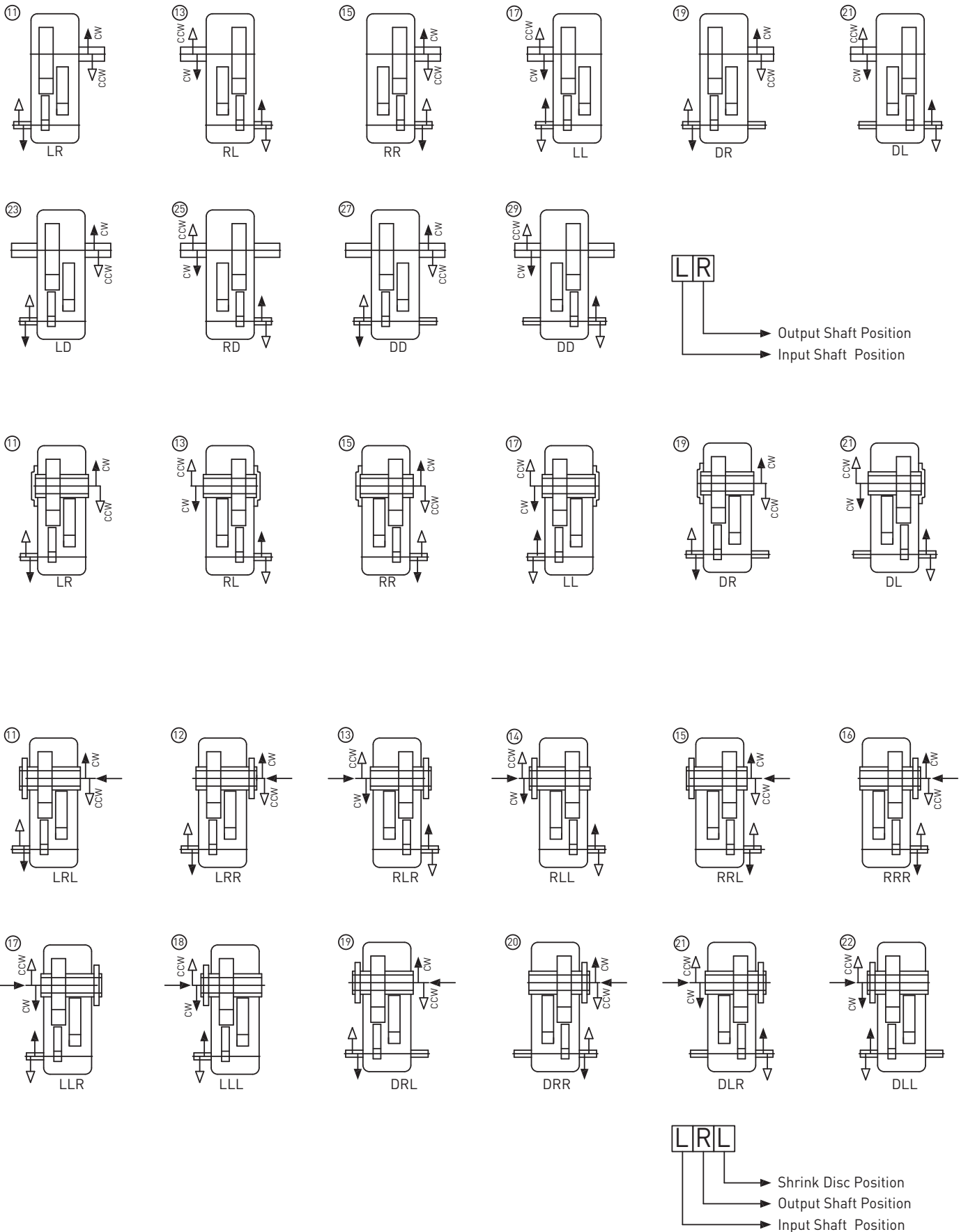
* Approximate values; exact values acc. to order related documents.

Types S3

Triple Stage

Shaft Arrangement

Helical Gear Unit

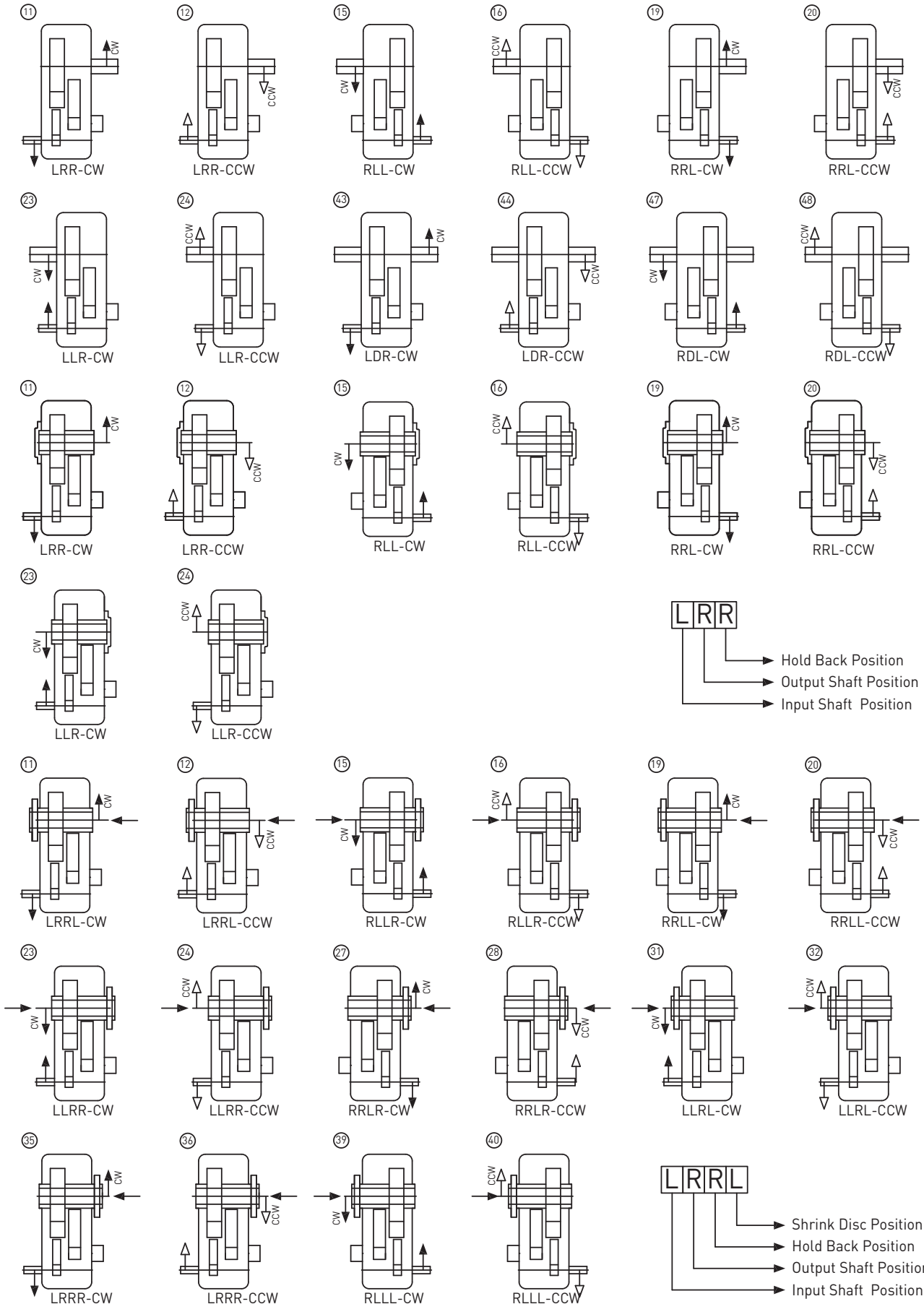


Types S3

Shaft Arrangement

Helical Gear Unit

Triple Stage



Types S4H, S4T

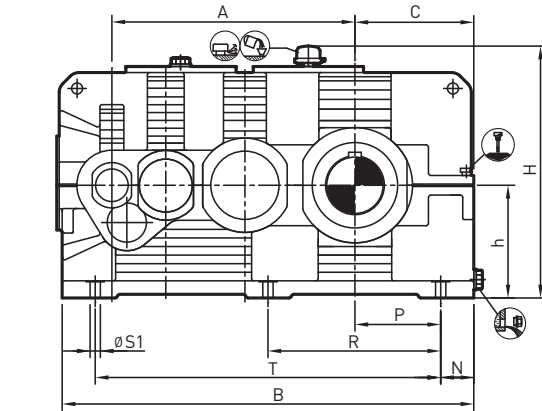
Quadruple Stage

Horizontal /Torque Arm Mounting

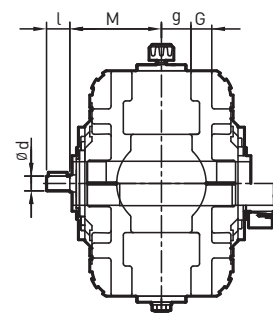
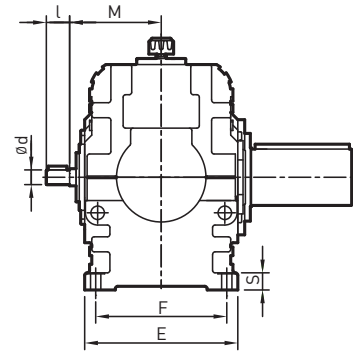
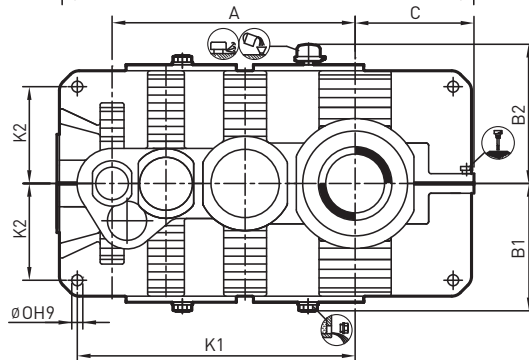
Helical Gear Unit

Size 26A to 39

S4HN
S4HK
S4HD
S4HS
S4HF

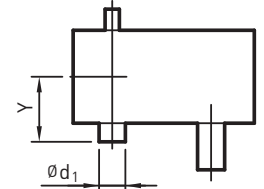


S4TK
S4TD
S4TS
S4TF



Size	Input				Gear Units								
	$i_N = 100 - 180$		$i_N = 200 - 355$		M	E	S	G	O	g	F	S1	
	$i_N = 112 - 200$		$i_N = 224 - 400$										
	d	l	d	l	E	S	G	O	g	F	S1		
26A	27	60	100	50	80	360	625	70	70	55	128	535	42
28	29	60	100	50	80	390	690	80	70	55	163	600	42
30	31	75	120	60	100	440	790	90	90	65	175	690	48
32	33	90	150	70	120	460	830	100	90	75	182	720	56
34	35	90	150	70	120	515	930	115	110	80	199	810	56
36	37	100	180	85	150	575	1045	130	120	90	225	910	66
38	39	120	210	100	180	645	1170	150	135	100	250	1030	74

Shaft Arrangement



For other shaft options
Refer separate sheet

Size	Gear Units													Backstop		~Weight (kg.)		~Oil/ Quantity (Liters)	
	B	C	A	h_{-1}	H*	N	P	R	T	K1	K2	B1	B2	~ d_1	~ Y	S4H	S4T		
26A	1680	485	992	460	1035	135	350	705	1410	1134	395	515	575	180	445	3270	3100	225	
27	1770	530	1033	500	1115	130	400	755	1510	1175	435	555	615	180	445	3570	3370	240	
28	1770	525	1039	510	1135	145	380	740	1480	1189	445	565	625	190	480	4210	4000	285	
29	1895	585	1093	550	1215	135	450	810	1620	1235	485	605	665	190	480	4670	4420	310	
30	2030	590	1199	580	1280	160	430	855	1710	1330	480	640	700	215	560	6120	5670	425	
31	2150	650	1254	620	1360	150	500	925	1850	1400	520	680	740	215	560	7380	6930	385	
32	2340	655	1397	650	1415	175	480	995	1990	1595	550	710	765	250	595	8280	7740	390	
33	2450	710	1457	700	1515	160	550	1065	2130	1655	580	760	815	250	595	8910	8460	425	
34	2530	730	1509	740	1600	180	550	1085	2170	1695	595	800	860	250	645	10440	9630	510	
35	2660	795	1579	780	1680	185	610	1145	2290	1765	660	845	900	250	645	12150	11340	560	
36	2860	820	1699	820	1740	240	580	1205	2410	1945	665	865	920	On Request		14670	13950	725	
37	3045	915	1789	860	1875	225	690	1415	2630	2025	755	960	1015				16200	15390	790
38	3275	915	1939	880	1895	265	650	1380	2760	2255	745	960	1015				20700	19800	1045
39	3455	1005	2029	950	2040	245	760	1585	2980	2330	825	1035	1090				23580	22500	1120

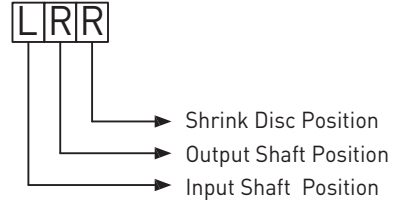
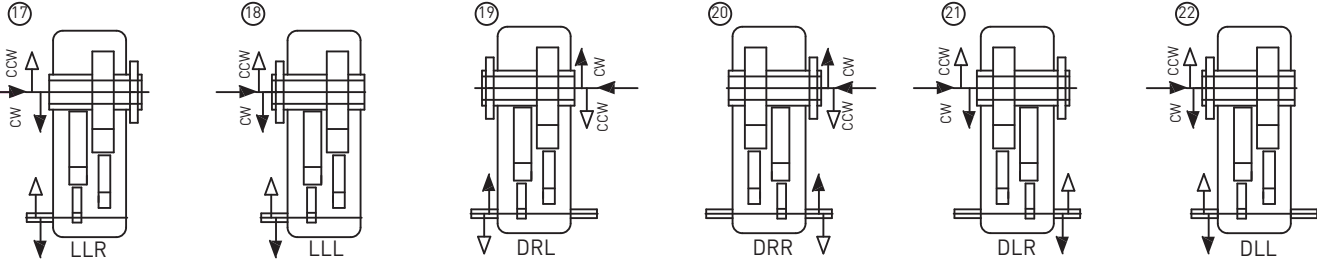
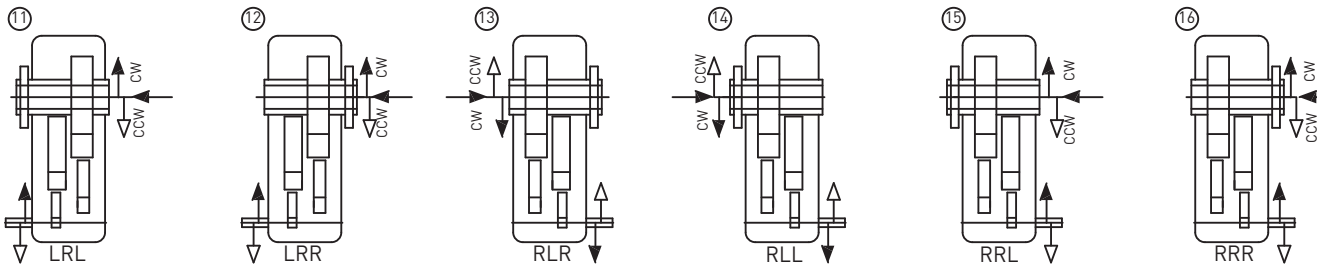
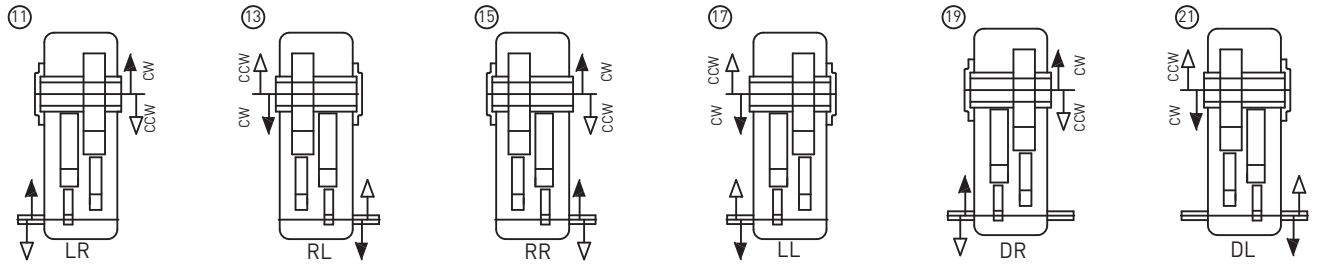
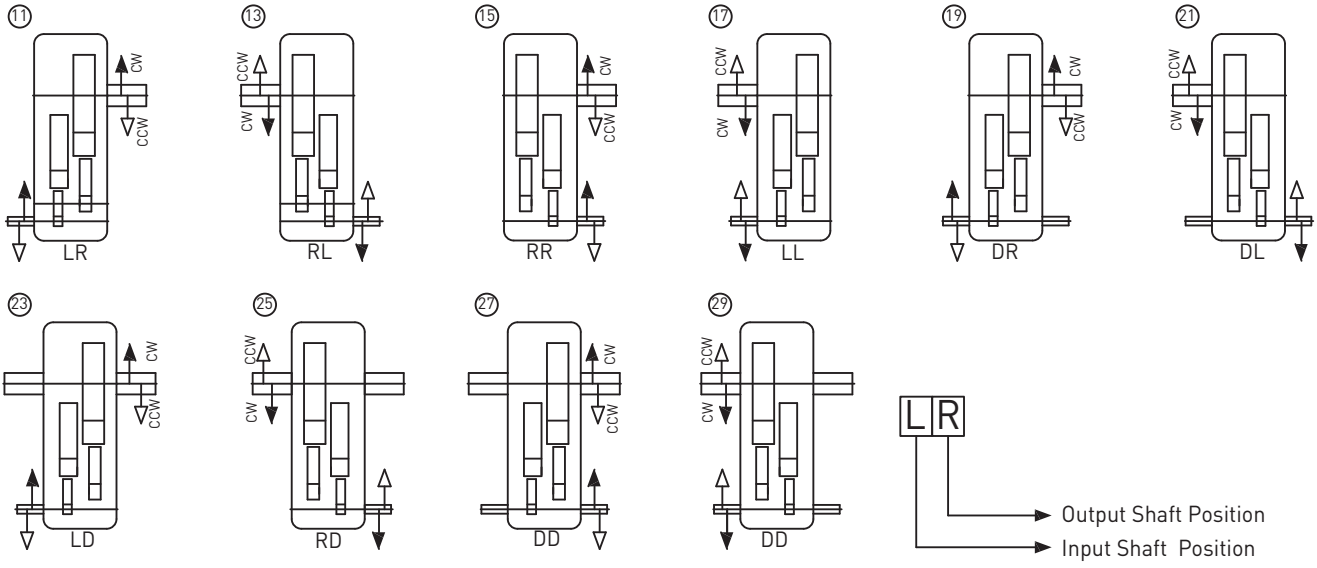
* Approximate values; exact values acc. to order related documents.

Types S4

Shaft Arrangement

Helical Gear Unit

Quadruple Stage

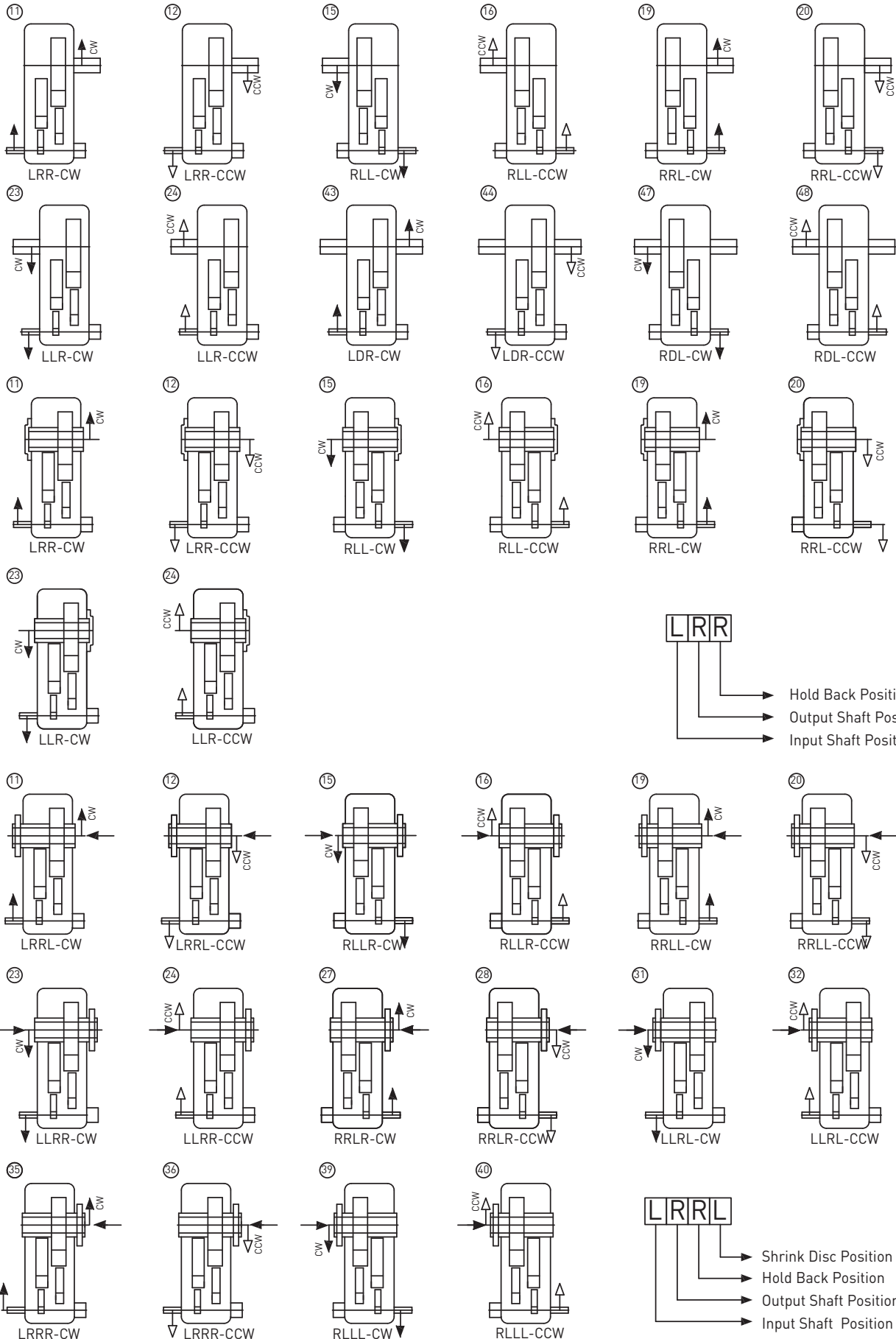


Types S4

Quadruple Stage

Shaft Arrangement

Helical Gear Unit



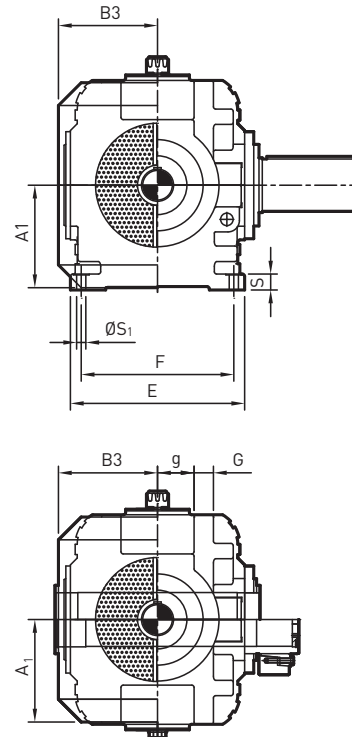
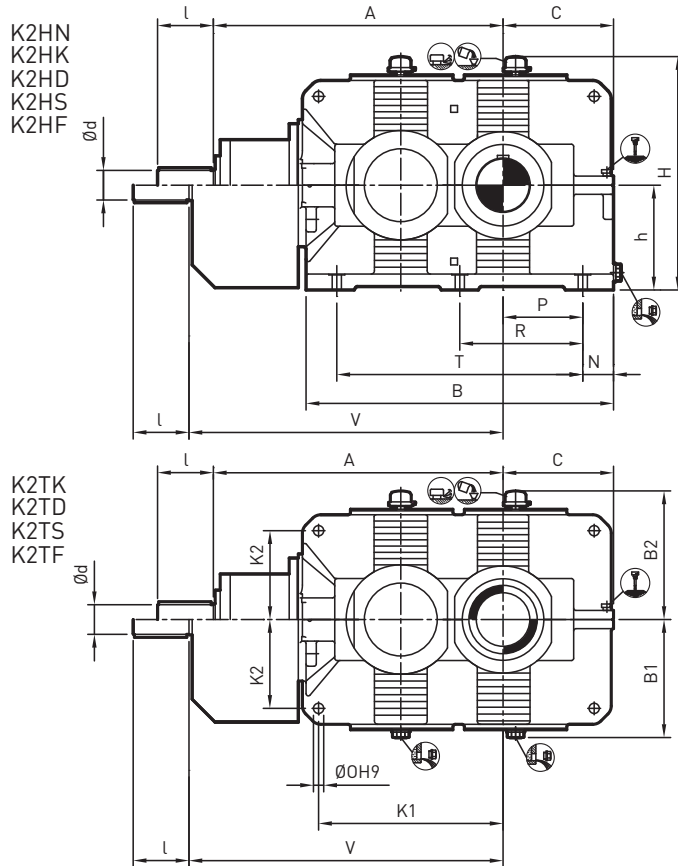
Types K2H, K2T

Horizontal/Torque Arm Mounting

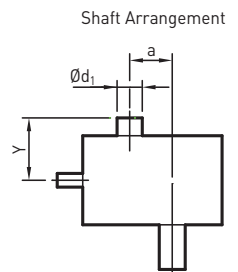
Bevel-Helical Gear Unit

Double Stage

Size 26A to 39



Size	Input		Fan					Gear Units							
	$i_N = 5 \text{ to } 11.2$		Approx.												
	$i_N = 5.6 \text{ to } 12.5$														
	d	l	V	V	A1	A1	B3	E	S	G	O	g	F	S ₁	
26A	27	130	210	1392	1433	450	490	440	765	70	70	55	168	670	42
28	29	150	250	1555	1609	500	540	500	885	80	80	65	215	780	48



For other shaft options
Refer separate sheet

Size	Gear Units												Backstop			~Weight (kg.)		~Oil/ Quantity (Liters)	
	B	C	A	h ₋₁	H*	N	P	R	T	K1	K2	B1	B2	a	~ d ₁	~ Y	K2H		K2T
26A	1350	485	1272	460	1040	135	350	540	1080	810	390	520	580	449	480	680	3590	3420	215
27	1440	530	1313	500	1120	130	400	640	1180	850	430	560	620	490	480	680	3910	3750	235
28	1490	525	1435	510	1140	145	380	600	1200	880	425	570	630	496	470	715	5060	4790	315
29	1610	585	1489	550	1220	135	450	740	1340	925	470	610	670	550	470	715	5540	5280	340

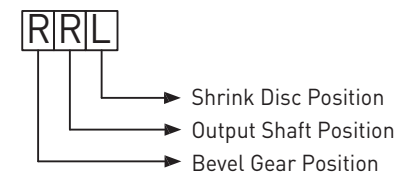
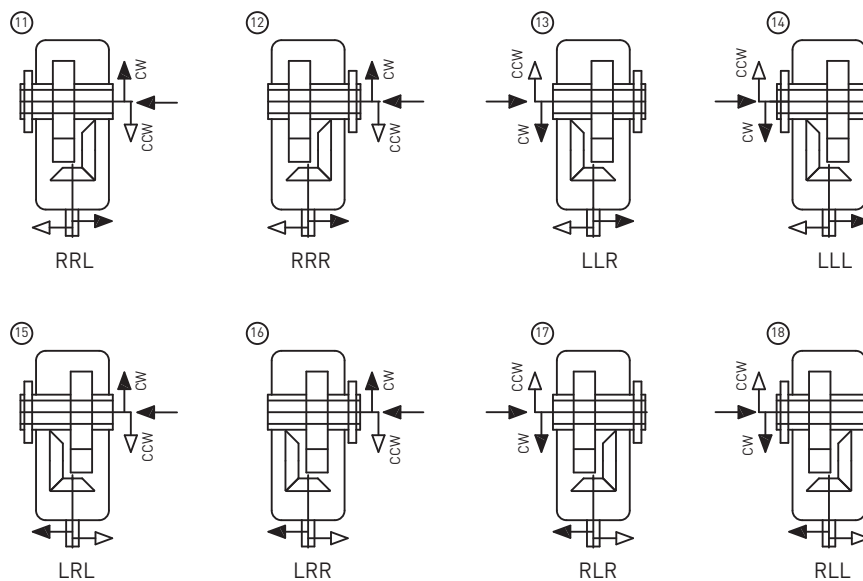
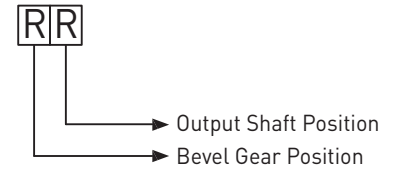
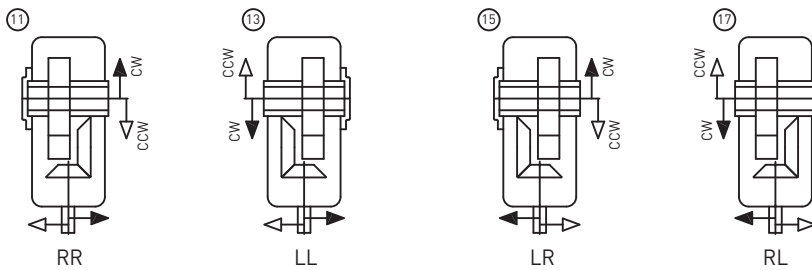
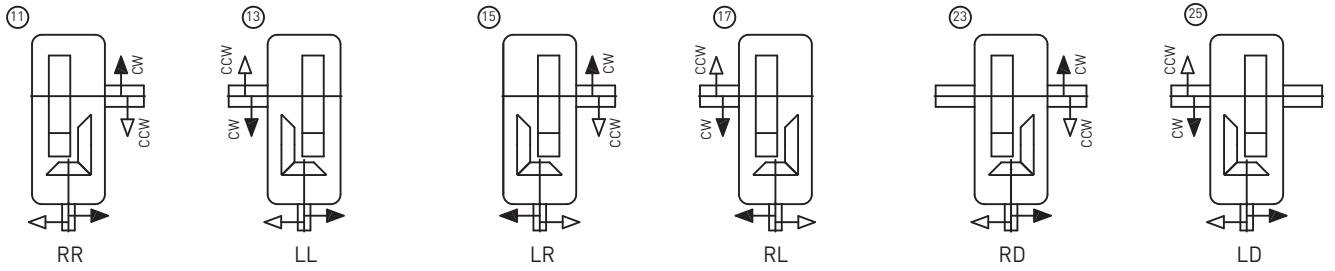
* Approximate values; exact values acc. to order related documents.

Types K2

Double Stage

Shaft Arrangement

Bevel-Helical Gear Unit

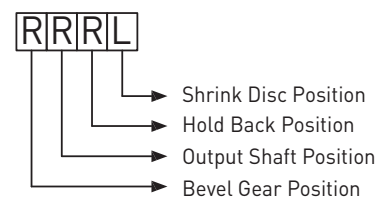
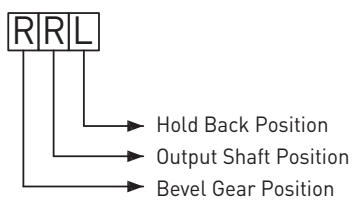
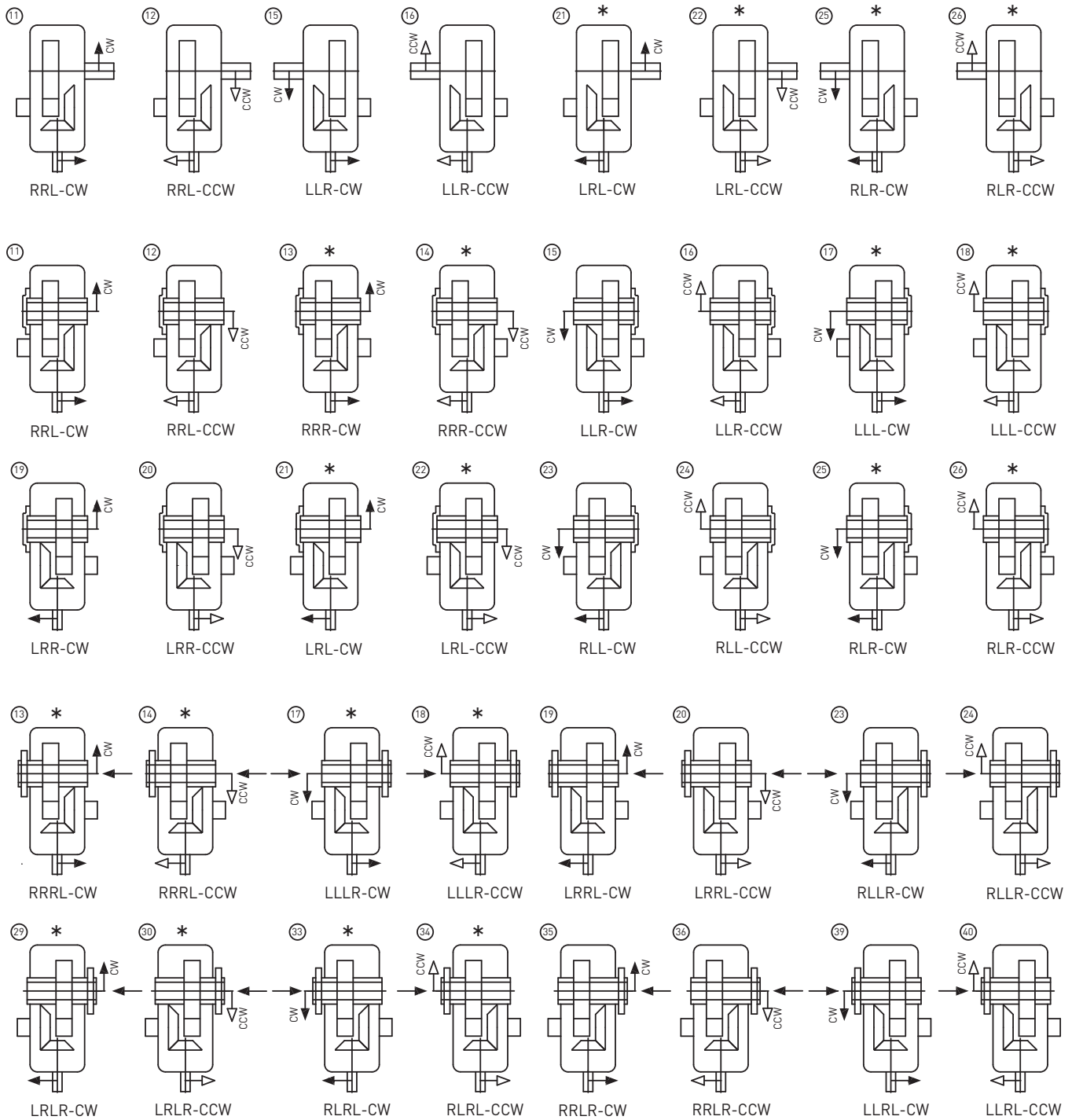


Types K2

Shaft Arrangement-Hold Back

Bevel-Helical Gear Unit

Double Stage



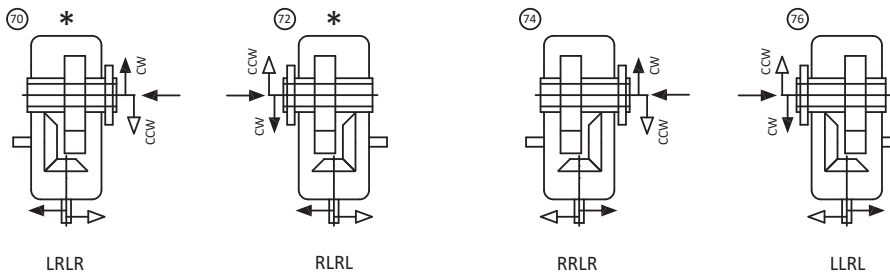
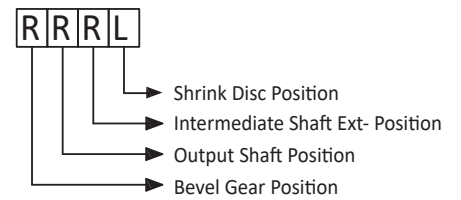
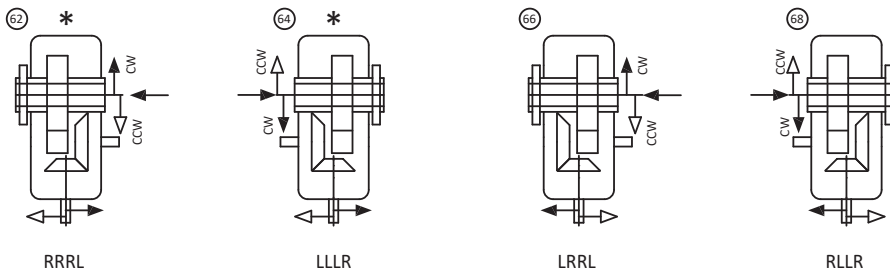
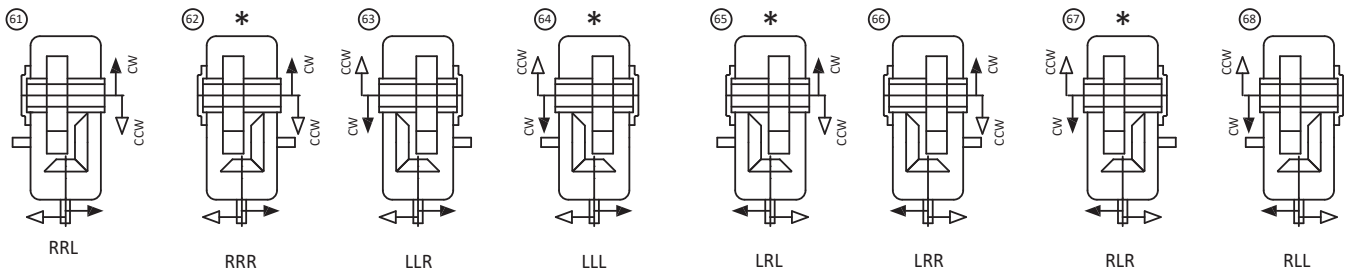
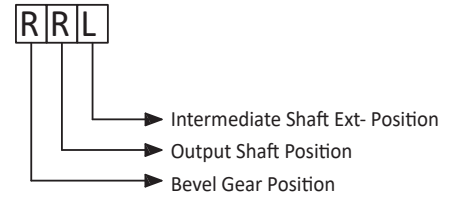
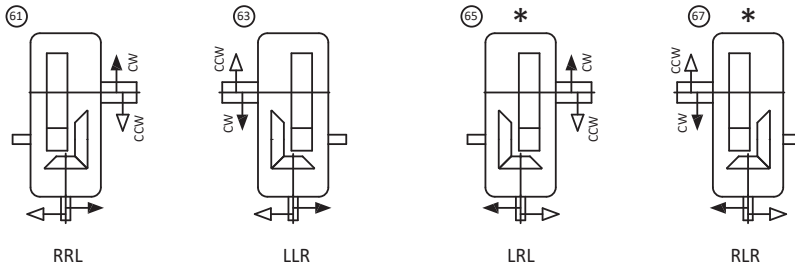
* Non Standard Shaft Arrangement

Types K2

Shaft Arrangement-Int. Extension

Bevel-Helical Gear Unit

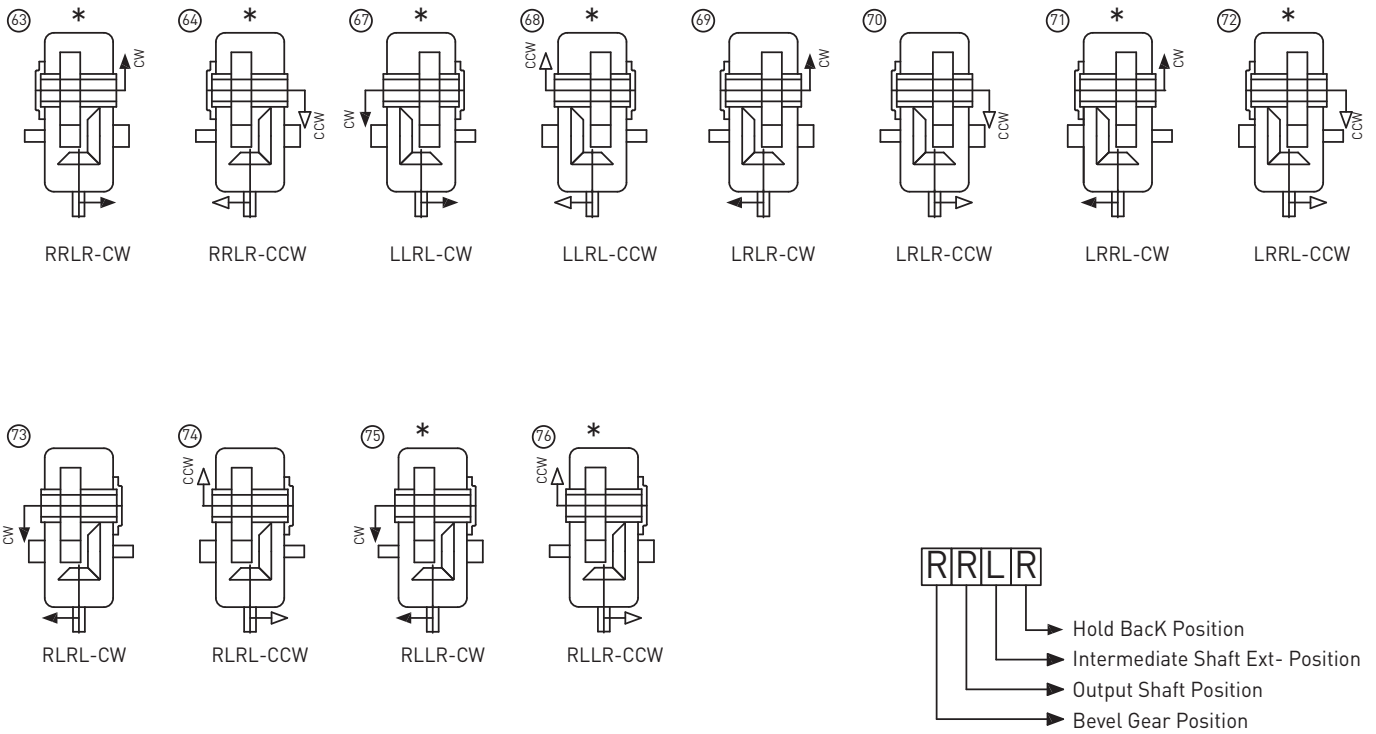
Double Stage



* Non Standard Shaft Arrangement

Types K2 Shaft Arrangement - Int. Extn. & Hold Back Bevel-Helical Gear Unit

Double Stage



* Non Standard Shaft Arrangement

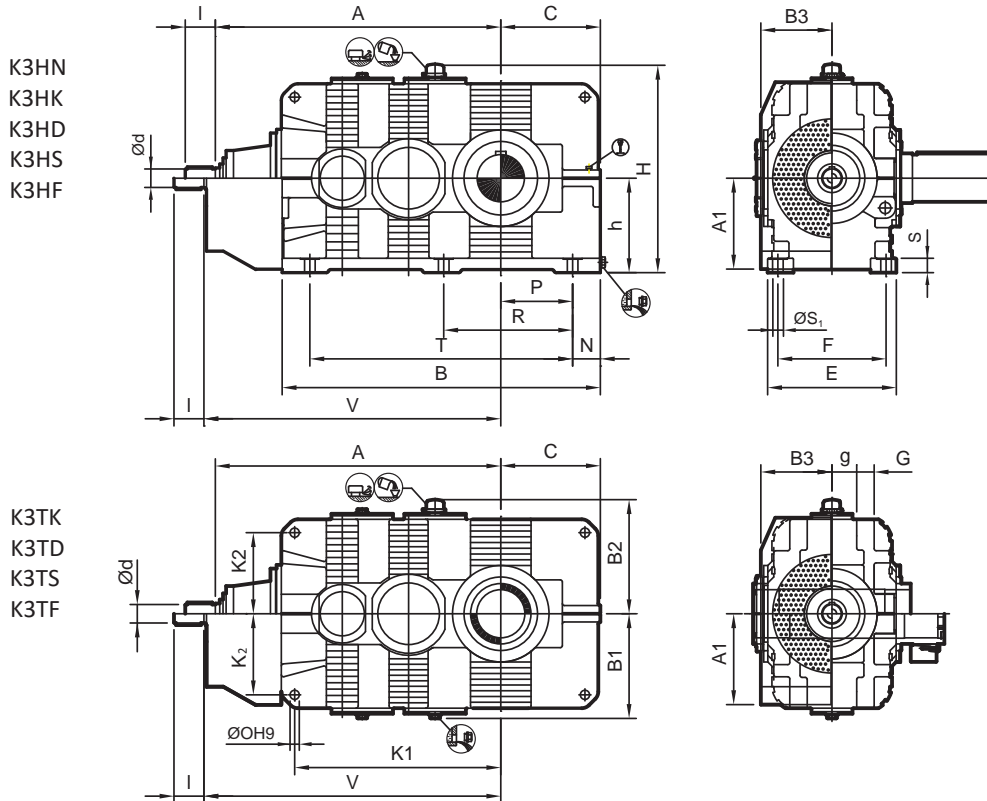
Types K3H, K3T

Horizontal/Torque Arm Mounting

Bevel-Helical Gear Unit

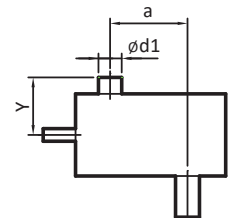
Triple Stage

Size 26A to 39



Size	Input				Fan						Gear Units						
	$i_N = 12.5 - 45$		$i_N = 50 - 71$		V	V	Approx.				E	S	G	O	g	F	S_1
	d	l	d	l			A1	A1	B3								
26A	27	90	150	70	120	1472	1513	450	490	370	625	70	70	55	128	535	42
28	29	110	180	80	150	1666	1720	500	540	400	690	80	70	55	163	600	42
30	31	130	210	100	180	1947	2002	570	610	450	790	90	90	65	175	690	48
32	33	130	210	100	180	2017	2077	640	690	470	830	100	90	75	182	720	56
34	35	150	250	110	180	2245	2315	730	770	530	930	115	110	80	199	810	56
36	37	160	280	120	210	2495	2585	-	-	-	1045	130	120	90	225	910	66
38	39	180	320	130	210	2750	2840	-	-	-	1170	150	135	100	250	1030	74

Shaft Arrangement



For other shaft options Refer separate sheet

Size	Gear Units												Backstop			~Weight (kg.)		~Oil/Quantity (Liters)	
	B	C	A	h_{-1}	H^*	N	P	R	T	K1	K2	B1	B2	a	~Ød1	~Y	K3H		K3T
26A	1550	485	1372	460	1035	135	350	640	1280	1004	395	515	575	772	400	510	3090	2920	205
27	1640	530	1413	500	1115	130	400	750	1380	1040	430	555	615	813	400	510	3290	3120	220
28	1740	525	1566	510	1135	145	380	725	1450	1135	435	565	625	870	420	610	4190	3980	285
29	1860	585	1620	550	1215	135	450	810	1590	1165	480	605	665	924	420	610	4620	4380	305
30	2010	590	1827	580	1280	160	430	845	1690	1310	490	640	700	1004	460	640	5940	5670	315
31	2130	650	1882	620	1360	150	500	925	1830	1365	520	680	740	1059	460	640	6750	6480	345
32	2140	655	1897	650	1415	175	480	895	1790	1390	550	710	765	1074	460	660	8010	7560	315
33	2250	710	1957	700	1515	160	550	1000	1930	1450	580	760	815	1134	460	660	8640	8280	345
34	2380	730	2125	740	1595	180	550	1010	2020	1535	595	800	855	1186	540	730	10440	9900	420
35	2510	795	2195	780	1675	185	610	1145	2140	1610	660	840	895	1256	540	730	11700	11070	460
36	2645	820	2375	820	1740	210	580	1115	2225	1735	665	865	920	1325	On Request		14040	13320	630
37	2860	915	2465	860	1875	225	690	1300	2445	1810	745	960	1015	1415			15750	14850	690
38	2990	915	2630	880	1895	265	650	1250	2500	1980	745	960	1015	1490			19800	18900	870
39	3180	1005	2720	950	2040	245	760	1480	2720	2055	825	1035	1090	1580			22500	21420	950

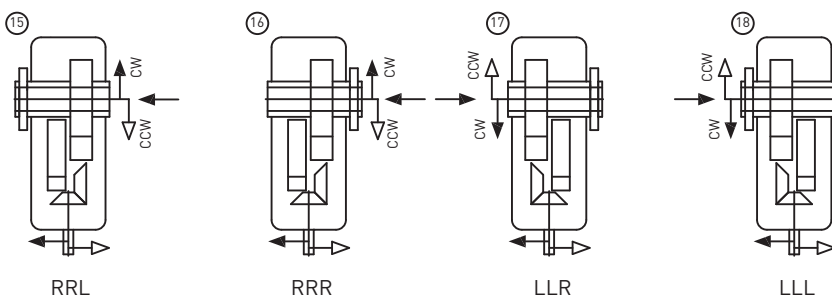
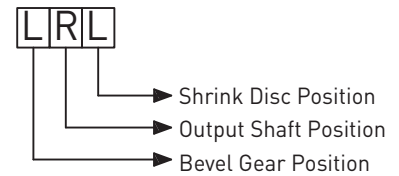
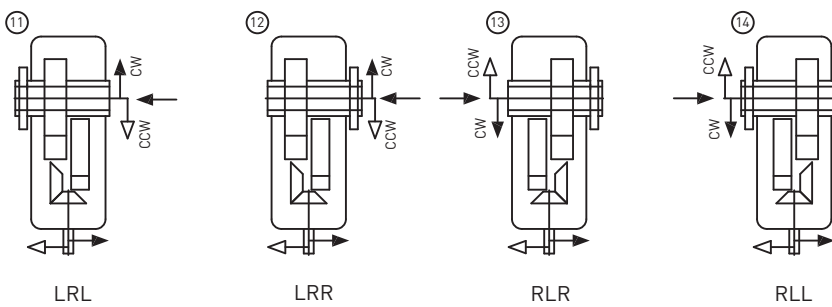
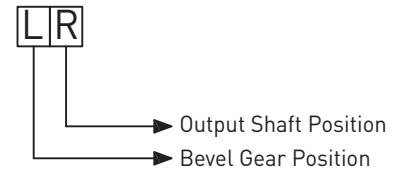
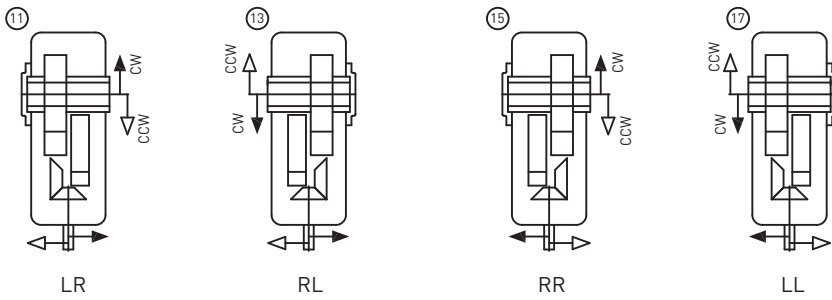
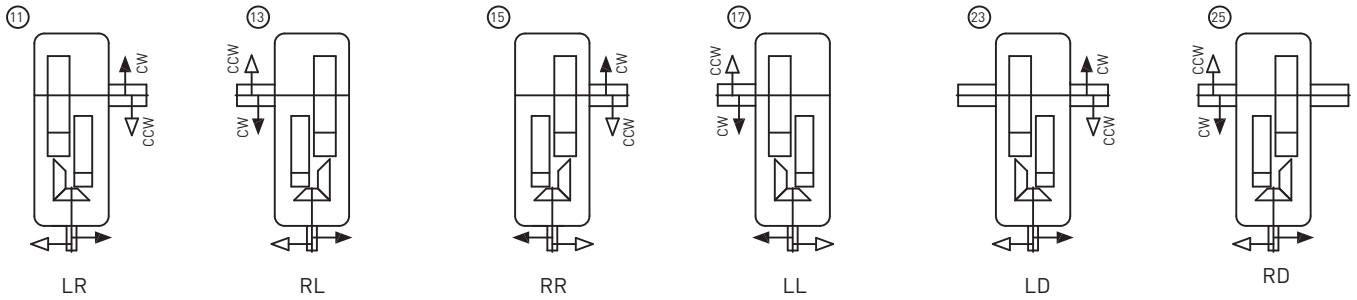
* Approximate values; exact values acc. to order related documents.

Types K3

Shaft Arrangement

Bevel-Helical Gear Unit

Triple Stage

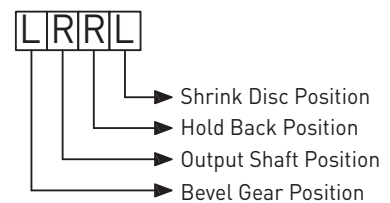
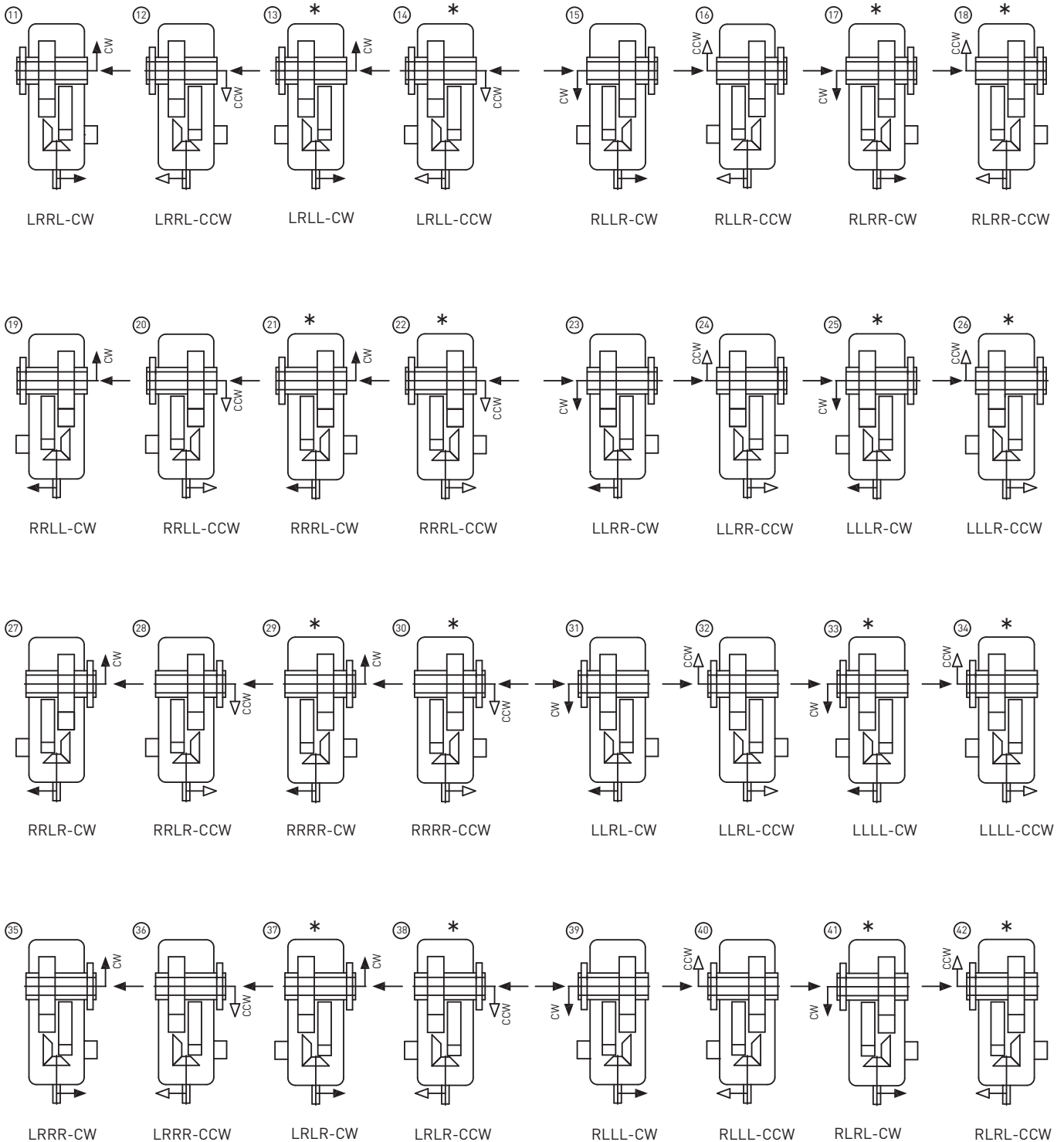


Types K3

Shaft Arrangement - Hold Back

Bevel-Helical Gear Unit

Triple Stage



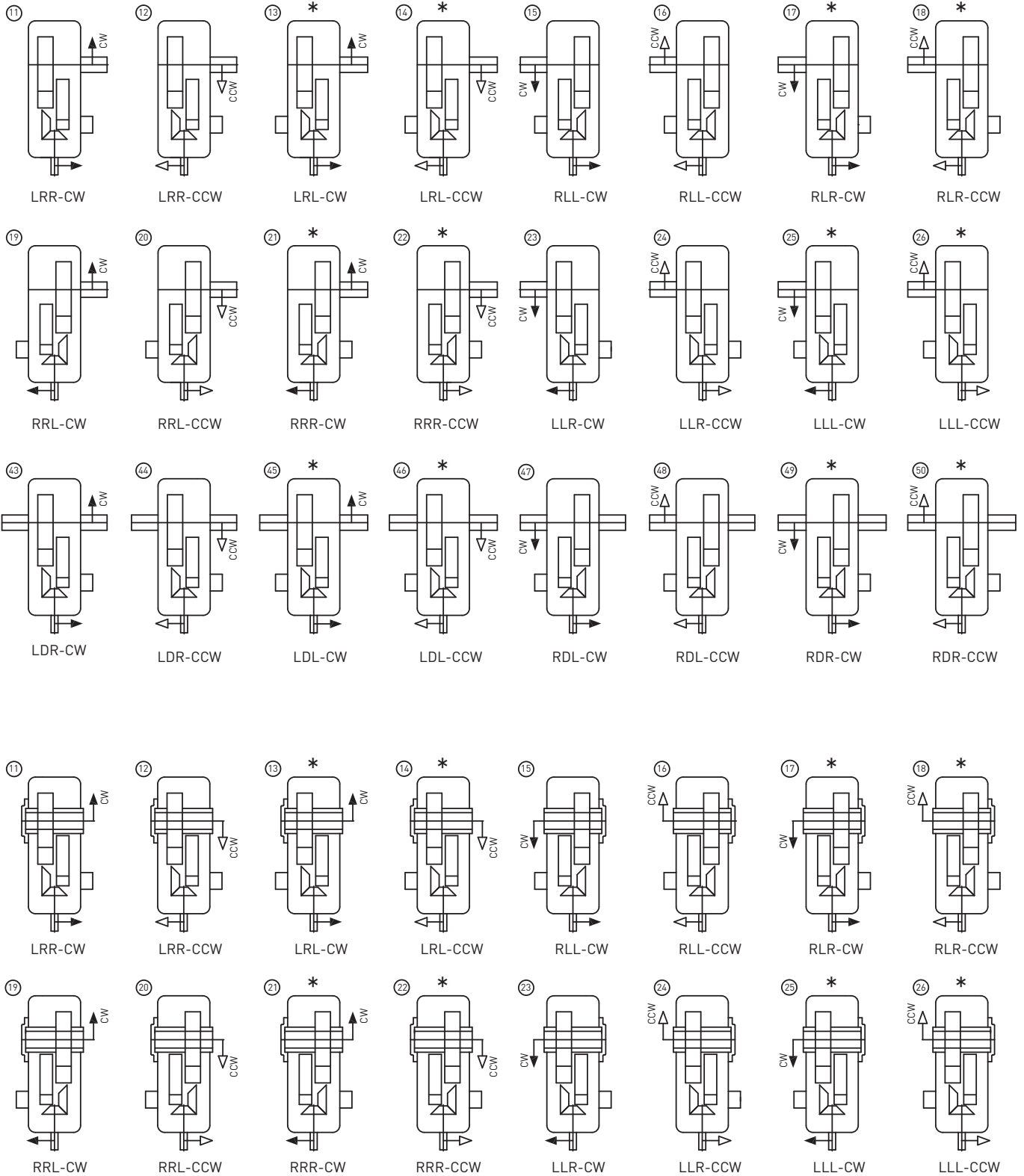
* Non Standard Shaft Arrangement

Types K3

Shaft Arrangement - Hold Back

Bevel-Helical Gear Unit

Triple Stage



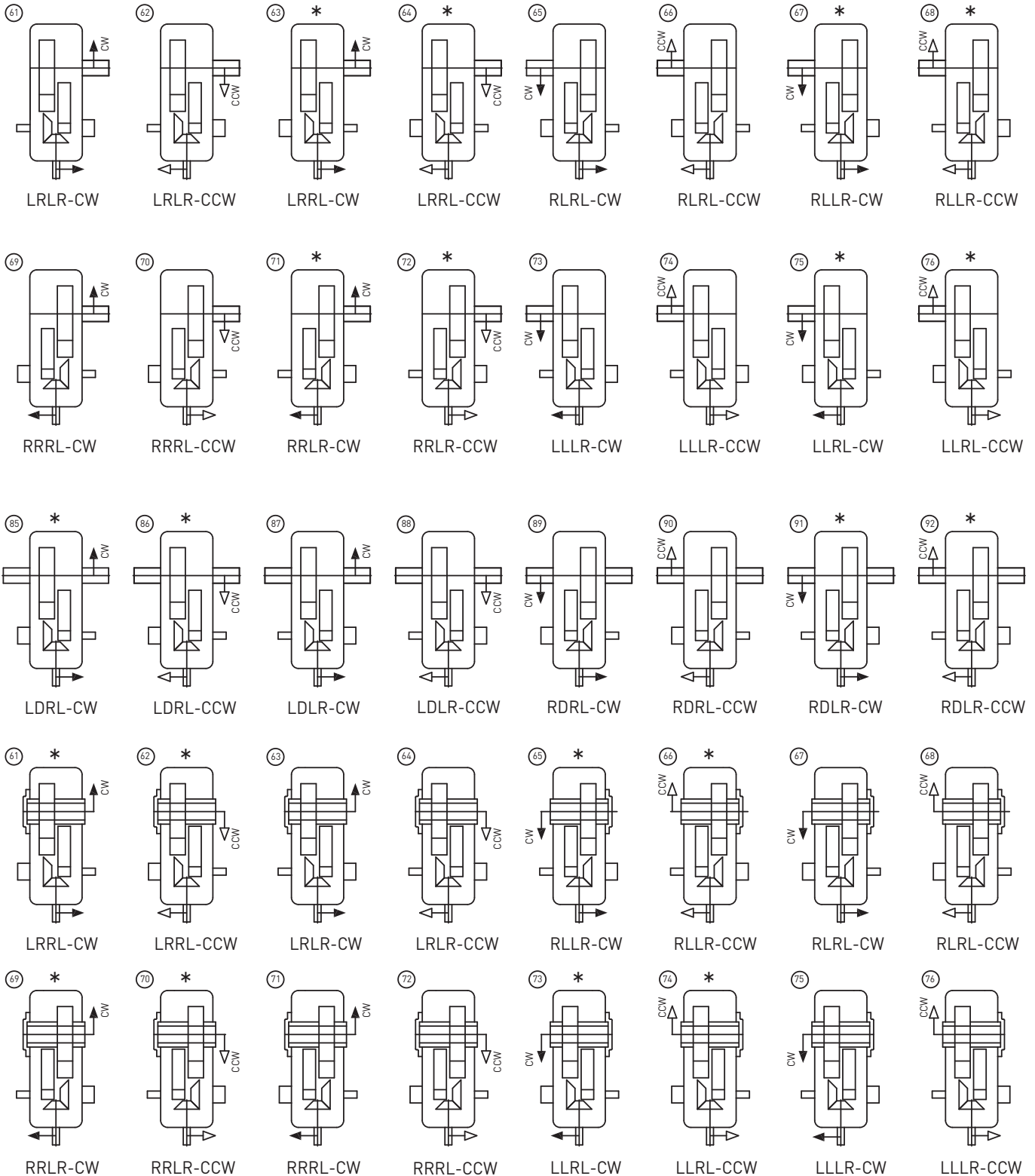
LRR

- Hold Back Position
- Output Shaft Position
- Bevel Gear Position

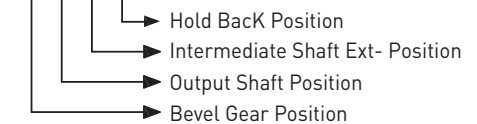
* Non Standard Shaft Arrangement

Types K3 Shaft Arrangement - Int. Extn. & Hold Back Bevel-Helical Gear Unit

Triple Stage



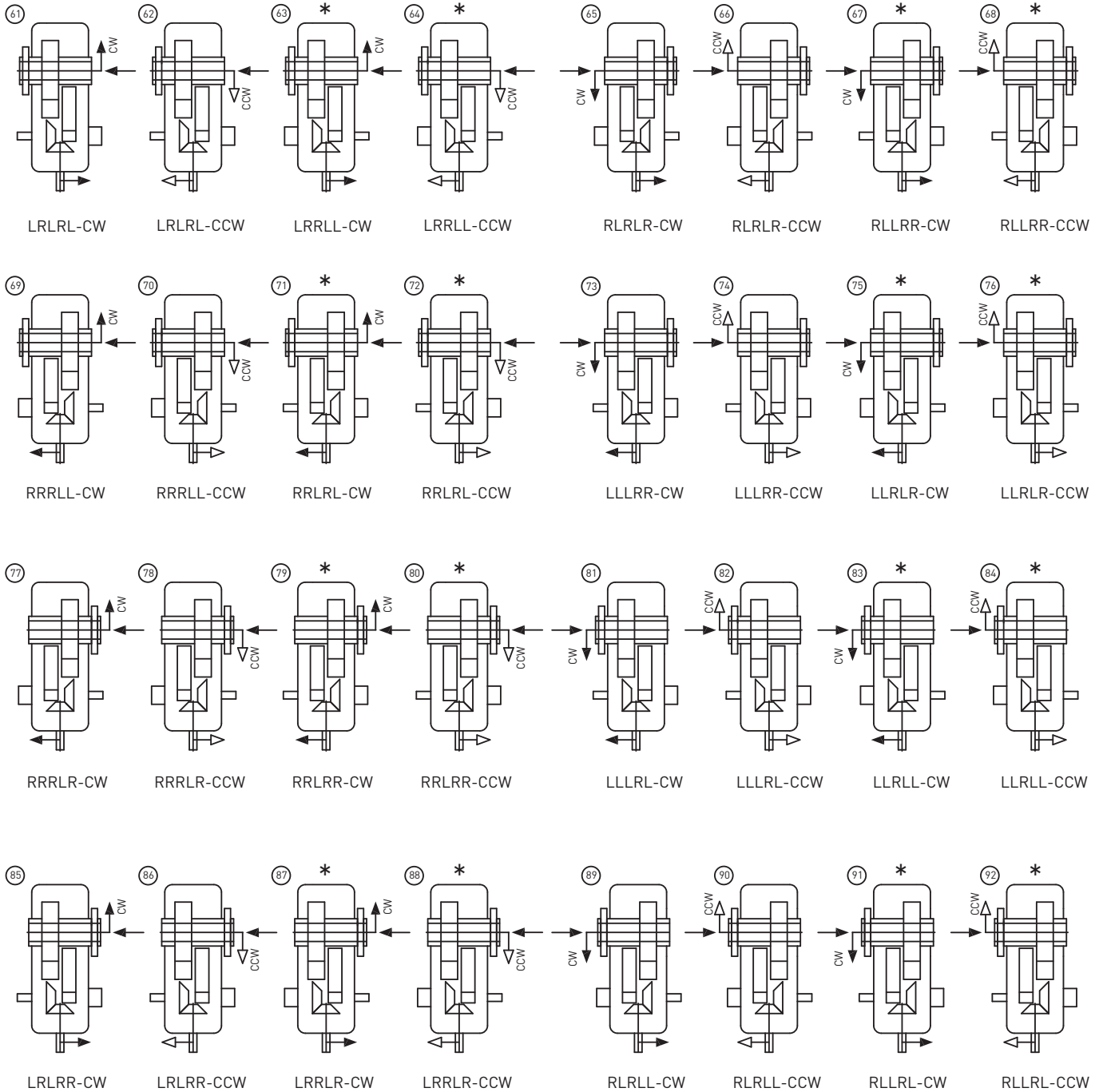
LRLR



* Non Standard Shaft Arrangement

Types K3 Shaft Arrangement - Int. Extn. & Hold Back Bevel-Helical Gear Unit

Triple Stage



LRLRR

- Shrink Disc Position
- Hold Back Position
- Intermediate Shaft Ext- Position
- Output Shaft Position
- Bevel Gear Position

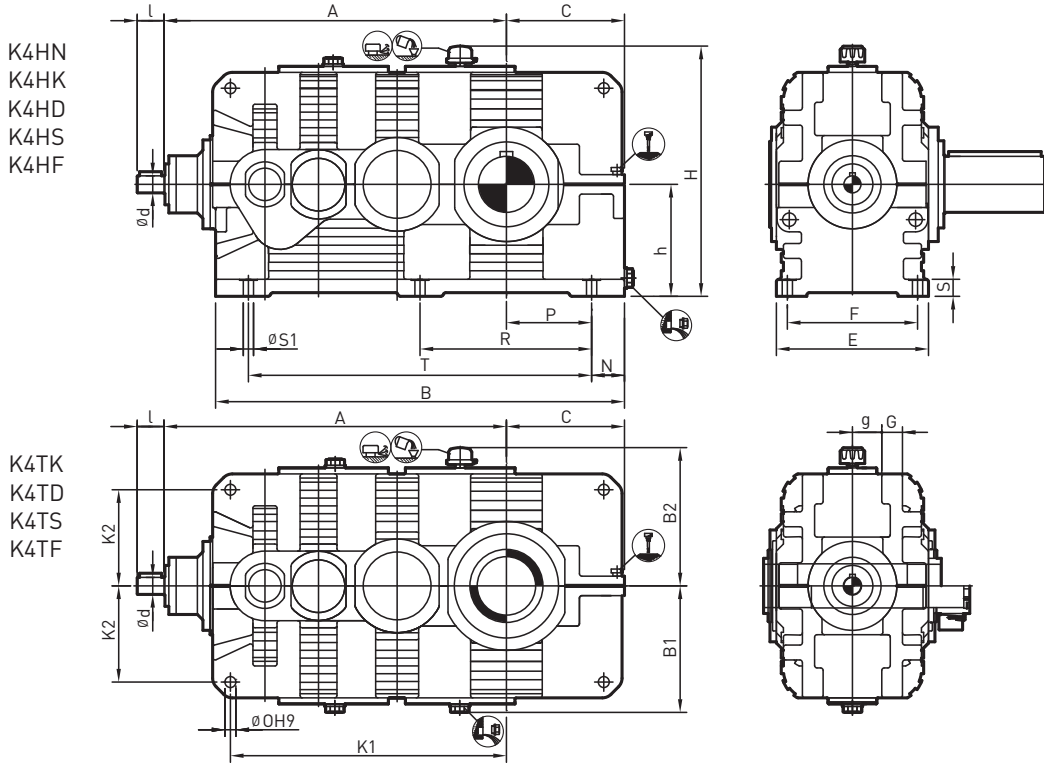
* Non Standard Shaft Arrangement

Types K4H, K4T
Quadruple Stage

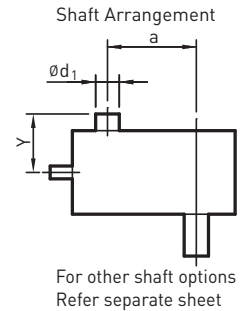
Horizontal/Torque Arm Mounting

Bevel-Helical Gear Unit

Size 26A to 39



Size	Input				Gear Units							
	$i_N = 80 - 180$		$i_N = 200 - 315$		E	S	G	O	g	F	S1	
	$i_N = 90 - 200$		$i_N = 224 - 355$									
	d	l	d	l								
26A	27	70	120	50	80	625	70	70	55	128	535	42
28	29	70	120	50	80	690	80	70	55	163	600	42
30	31	80	150	60	100	790	90	90	65	175	690	48
32	33	90	150	70	120	830	100	90	75	182	720	56
34	35	90	150	70	120	930	115	110	80	199	810	56
36	37	110	180	80	150	1045	130	120	90	225	910	66
38	39	130	210	100	180	1170	150	135	100	250	1030	74



Size	Gear Units												Backstop			~Weight (kg.)		~Oil/Quantity (Liters)		
	B	C	A	h_1	H*	N	P	R	T	K1	K2	B1	B2	~d1	~Y	a	K4H		K4T	
26A	1680	485	1407	460	1035	135	350	705	1410	1134	395	515	575	215	480	992	3270	3090	225	
27	1770	530	1448	500	1115	130	400	755	1510	1175	435	555	615	215	480	1033	3590	3390	240	
28	1770	525	1454	510	1135	145	380	740	1480	1189	445	565	625	215	515	1039	4230	4010	290	
29	1895	585	1508	550	1215	135	450	810	1620	1235	485	605	665	215	515	1093	4680	4440	310	
30	2030	590	1685	580	1280	160	430	855	1710	1330	480	640	700	245	575	1199	6120	5670	475	
31	2150	650	1740	620	1360	150	500	925	1850	1400	520	680	740	245	575	1254	7380	6930	555	
32	2340	655	1997	650	1415	175	480	995	1990	1595	550	710	765	290	605	1397	8280	7740	535	
33	2450	710	2057	700	1515	160	550	1065	2130	1655	580	760	815	290	605	1457	8910	8460	625	
34	2530	730	2109	740	1600	180	550	1085	2170	1695	595	800	860	290	655	1509	10440	9630	700	
35	2660	795	2179	780	1680	185	610	1145	2290	1765	660	845	900	290	655	1579	12150	11340	820	
36	2860	820	2395	820	1740	240	580	1205	2410	1945	665	865	920	On Request		1699	14670	13950	990	
37	3045	915	2485	860	1875	225	690	1415	2630	2025	755	960	1015				1789	16200	15390	1160
38	3275	915	2762	880	1895	265	650	1380	2760	2255	745	960	1015				1939	20700	19800	1420
39	3455	1005	2852	950	2040	245	760	1585	2980	2330	825	1035	1090				2029	23580	22500	1590

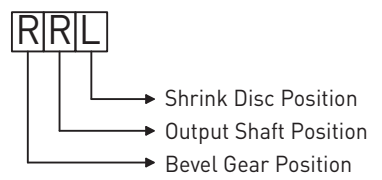
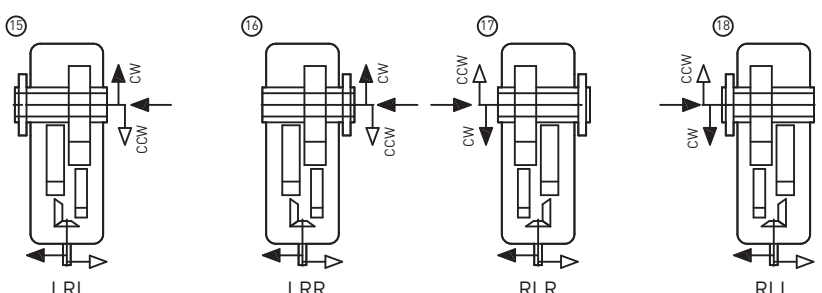
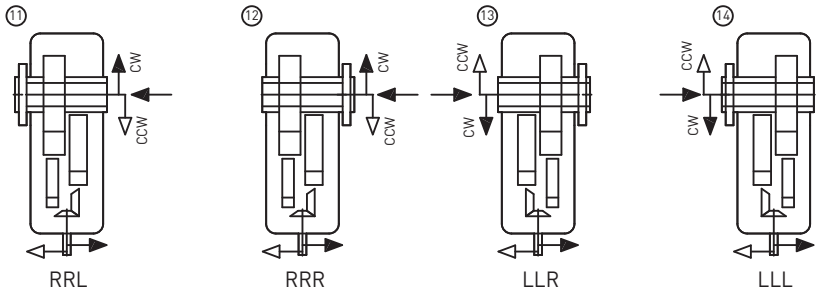
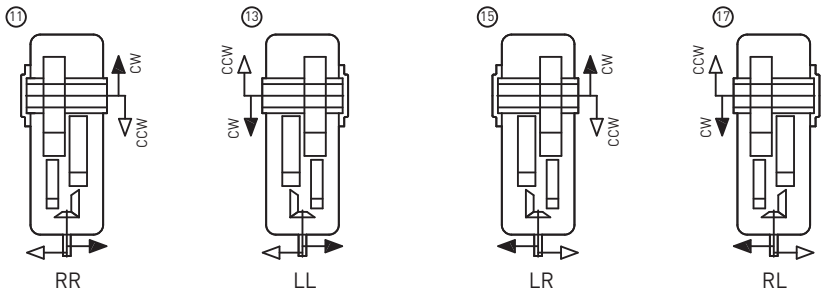
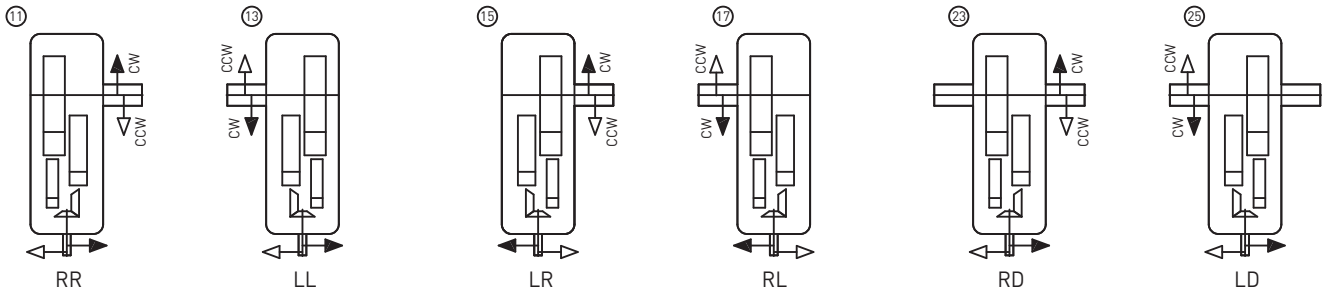
* Approximate values; exact values acc. to order related documents.

Types K4

Shaft Arrangement

Bevel-Helical Gear Unit

Quadruple Stage

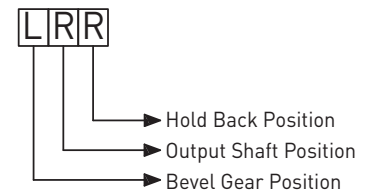
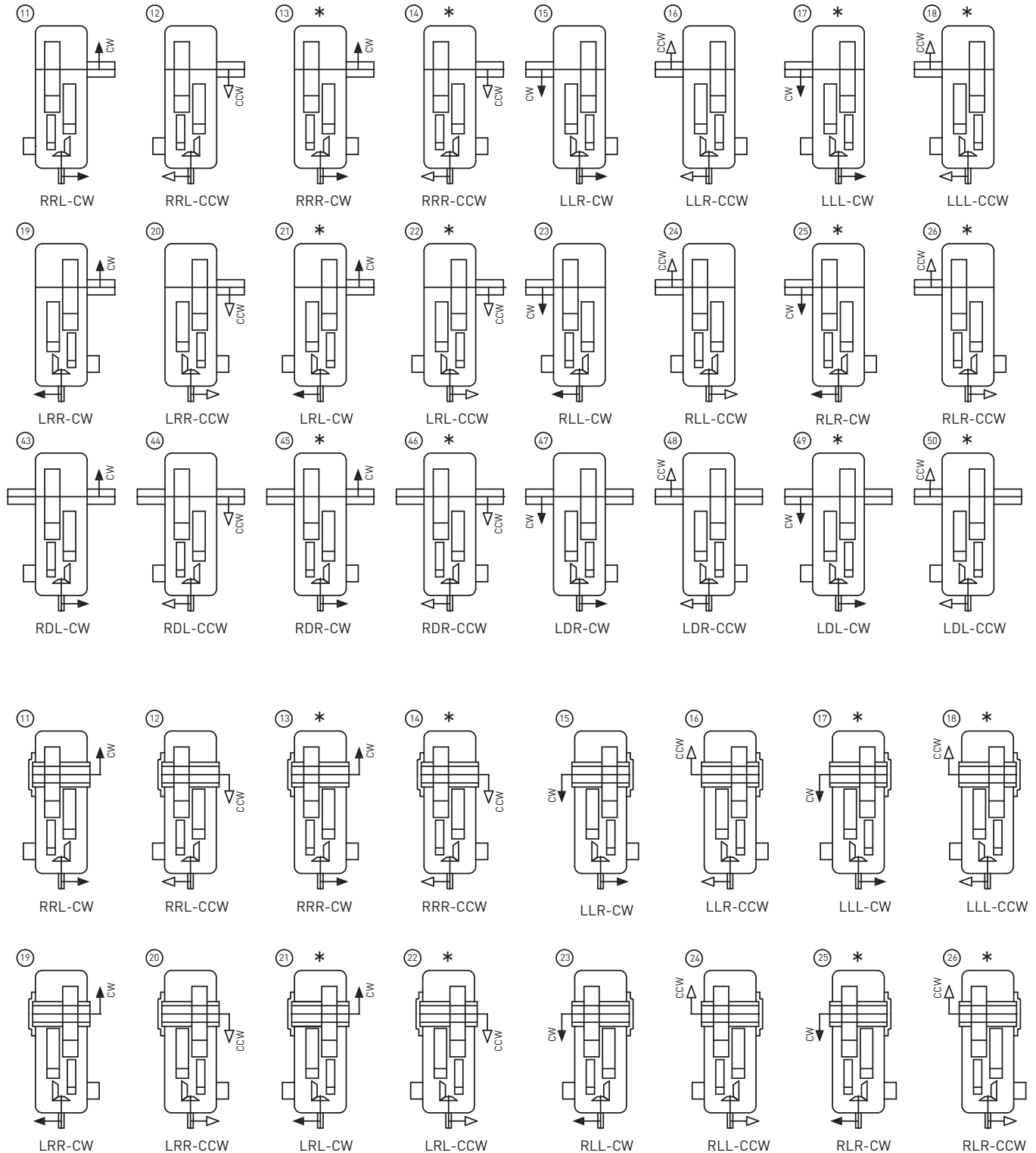


Types K4

Shaft Arrangement - Hold Back

Bevel-Helical Gear Unit

Quadruple Stage



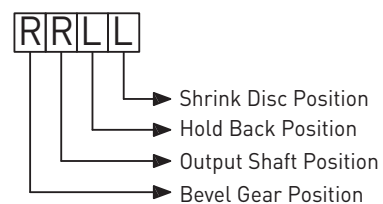
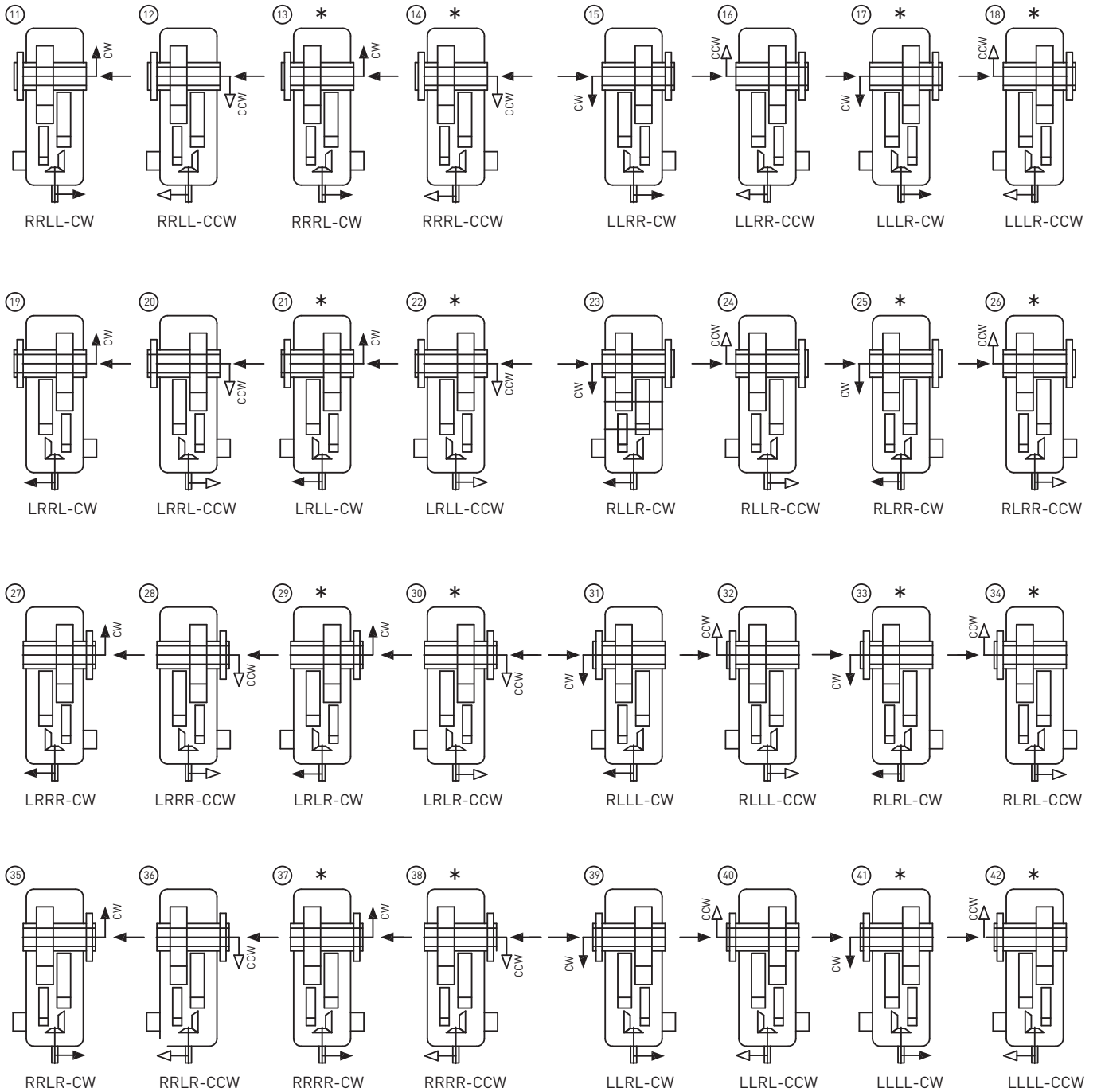
* Non Standard Shaft Arrangement

Types K4

Shaft Arrangement - Hold Back

Bevel-Helical Gear Unit

Quadruple Stage



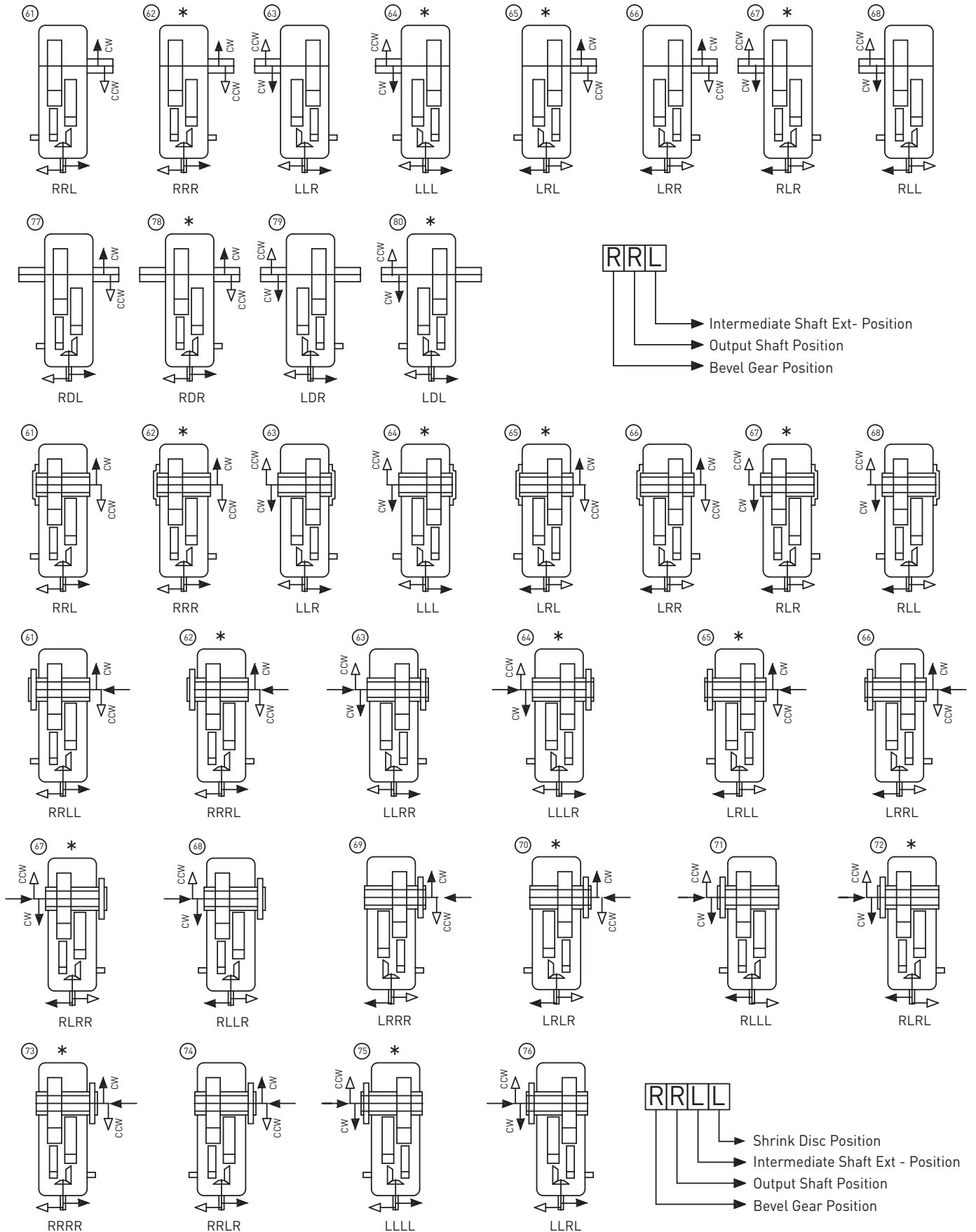
* Non Standard Shaft Arrangement

Types K4

Shaft Arrangement - Int. Ext

Bevel-Helical Gear Unit

Quadruple Stage



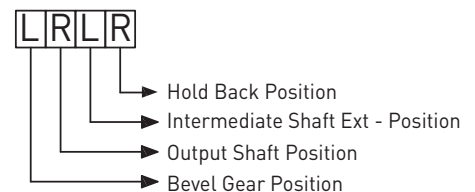
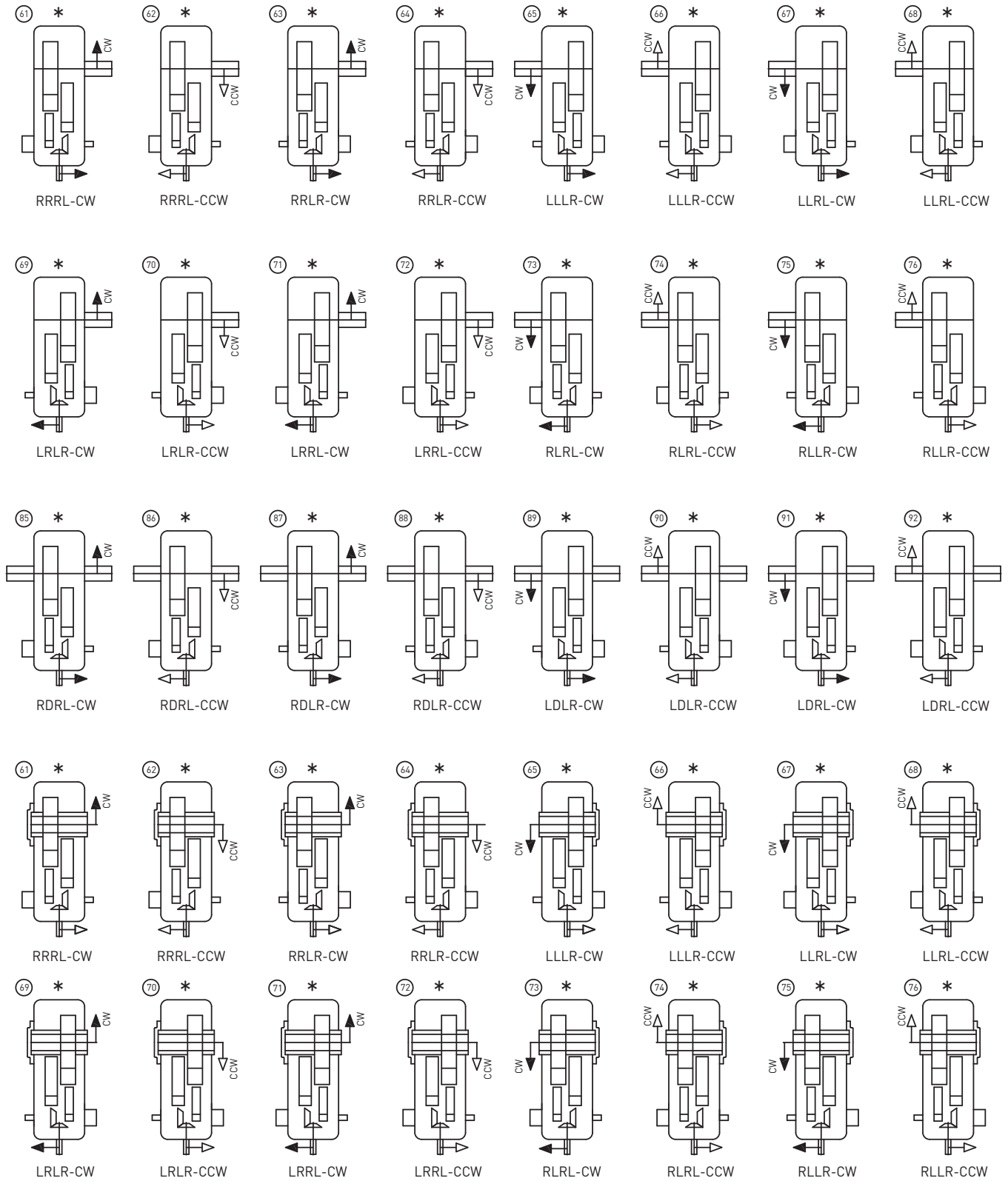
* Non Standard Shaft Arrangement

Types K4

Shaft Arrangement - Int. Extn. & Hold Back

Bevel-Helical Gear Unit

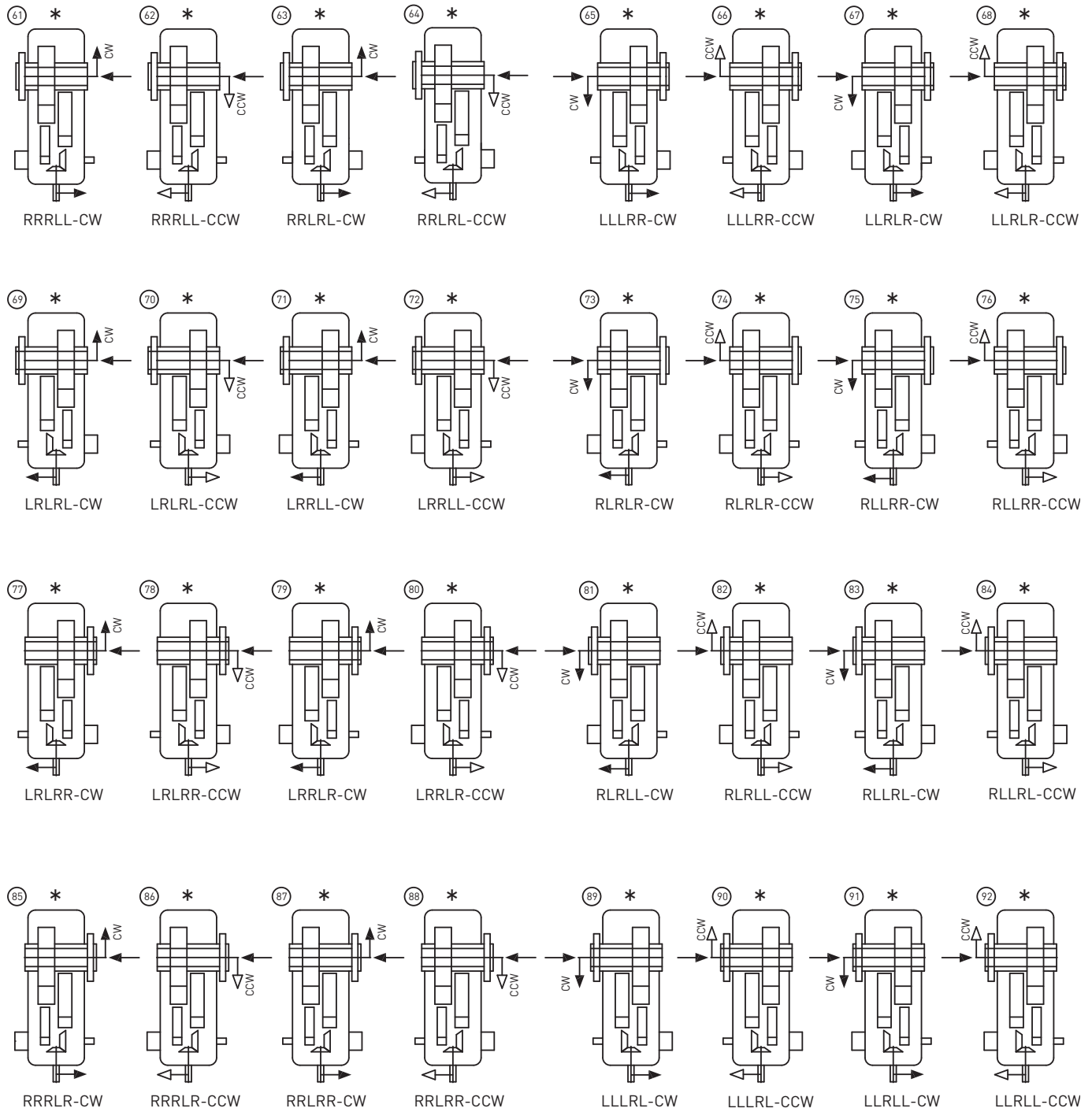
Quadruple Stage



* Non Standard Shaft Arrangement

Types K4 Shaft Arrangement - Int. Extn. & Hold Back Bevel-Helical Gear Unit

Quadruple Stage

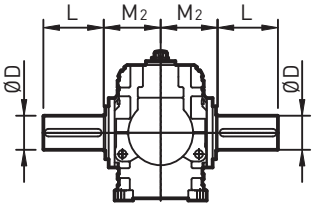
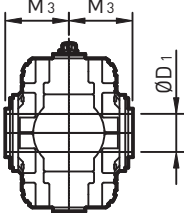


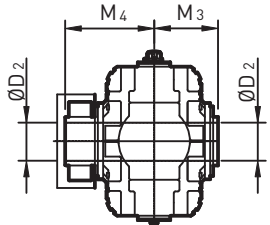
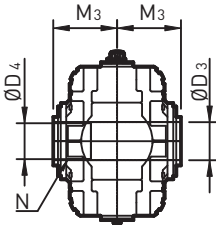
- Shrink Disc Position
- Hold Back Position
- Intermediate Shaft Ext- Position
- Output Shaft Position
- Bevel Gear Position

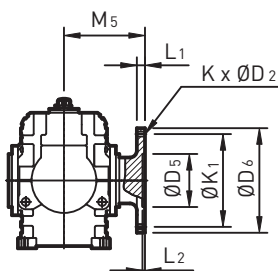
* Non Standard Shaft Arrangement

Output Shaft Types S2, S3, S4, K3, K4

Helical / Bevel Helical Gear Unit

Solid Output Shaft - (N)	Size	D	L	M ₂	Hollow Shaft With Keyway - (K)	Size	D ₁	M ₃
		26A	230	400		380		26A
	27	240	410	380		27	245	380
	28	250	410	415		28	260	415
	29	270	470	415		29	280	415
	30	290	470	465				
	31	300	500	465				
	32	320	500	490				
	33	340	590	490				
	34	360	590	540				
	35	380	590	540				
	36	400	690	605				
	37	420	690	605				
	38	440	690	680				
	39	460	750	680				

Hollow Shaft With Shrink Disc - (D)	Size	D ₂	M ₃	M ₄	Hollow Shaft with Spline - (S)	Size	N / DIN 5480	D ₂	M ₃	M ₄
		26A	235	380		550		26A	N220 × 5 × 42 × 9H	235
	27	245	380	550		27	N220 × 5 × 42 × 9H	245	380	550
	28	260	415	600		28	N250 × 5 × 48 × 9H	260	415	600
	29	280	415	600		29	N250 × 5 × 48 × 9H	280	415	600
	30	285	465	670						
	31	315	465	670						
	32	335	490	715						
	33	345	490	725						
	34	375	540	800						
	35	395	540	820						
	36	415	610	895						
	37	435	610	925						
	38	465	680	1000						
	39	475	680	1020						

Flanged Shaft (F)	Size	L ₁	D ₆	D ₅	K ₁	K × D ₂	L ₂	M ₅
		26A	55	710	360	630	28 × 33	25
	27	55	740	360	660	30 × 33	25	550
	28	60	750	410	660	24 × 39	25	600
	29	60	800	410	710	26 × 39	25	600

Output Shaft Types K2

Horizontal/Torque Arm Mounting

Bevel Helical Gear Unit

Solid Output Shaft - (N)

Size	D	L	M ₂
26A	230	400	460
27	240	410	460
28	250	410	540
29	270	470	540

Hollow Shaft With Keyway - (K)

Size	D ₁	M ₃
26A	235	450
27	245	450
28	260	510
29	280	510

Hollow Shaft With Shrink Disc - (D)

Size	D ₂	M ₃	M ₄
26A	235	450	620
27	245	450	620
28	260	510	700
29	280	510	700

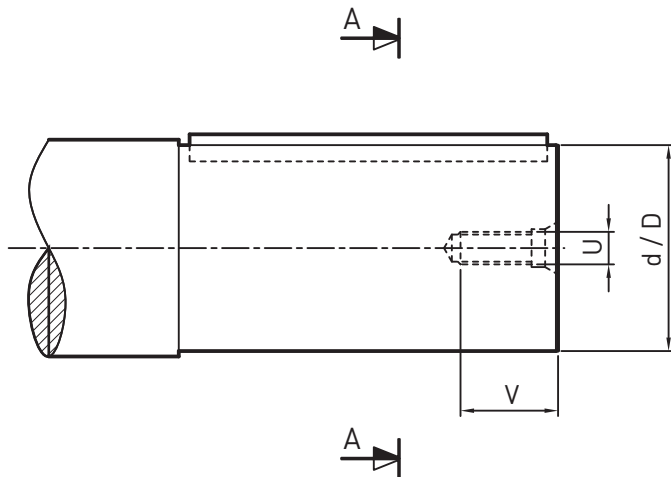
Hollow Shaft with Spline - (S)

Size	N / DIN 5480	D ₂	M ₃	M ₄
26A	N220 × 5 × 42 × 9H	225	210	450
27	N220 × 5 × 42 × 9H	225	210	450
28	N250 × 5 × 48 × 9H	255	240	510
29	N250 × 5 × 48 × 9H	255	240	510

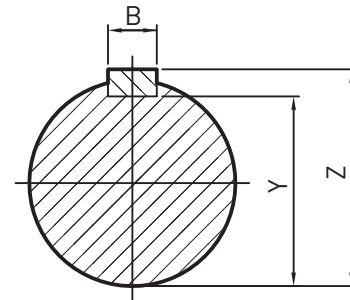
Flanged Shaft (F)

Size	L ₁	D ₆	D ₅	K ₁	K × D ₂	L ₂	M ₅
26A	55	710	360	630	28 × 33	25	625
27	55	740	360	660	30 × 33	25	625
28	60	750	410	660	24 × 39	25	695
29	60	800	410	710	26 × 39	25	695

Solid Shaft Extension Details



Helical/Bevel Helical Gear Unit



SEC-AA

d/D	B	Y	Z	tol. On Z	U	V
50	14	44.5	53.5	-0.2	M16	36
60	18	53	64		M20	42
70	20	62.5	74.5		M20	42
75	20	67.5	79.5		M20	42
80	22	71	85		M20	42
85	22	76	90		M20	42
90	25	81	95		M24	50
100	28	90	106		M24	50
110	28	100	116		M24	50
120	32	109	127		M24	50
125	32	114	132		M24	50
130	32	119	137		M24	50
140	36	128	148		M30	60
150	36	138	158		M30	60
160	40	147	169	M30	60	
170	40	157	179	M30	60	
180	45	165	190	M30	60	
190	45	175	200	M30	60	
200	45	185	210	M30	60	
220	50	203	231	M30	60	
230	50	213	241	M36	74	
240	56	220	252	M36	74	
250	56	230	262	M36	74	
270	63	250	282	M36	74	
290	63	270	302	M36	74	
300	70	278	314	M36	74	
320	70	298	334	M36	74	
340	80	315	355	M42	84	
360	80	335	375	M42	84	
380	80	355	395	M42	84	
400	90	372	417	M42	84	
420	90	392	437	M42	84	
440	90	412	457	M42	84	
460	100	429	479	M42	84	

d/D	tol. On Z	tol.
50	k6	+0.018
		+0.002
60-80	k6	+0.021
		+0.002
85-100	k6	+0.025
		+0.003
110-120	m6	+0.035
		+0.013
125-180	m6	+0.040
		+0.015
190-200	m6	+0.046
		+0.017
220-250	n6	+0.060
		+0.031
270-300	n6	+0.066
		+0.034
320-400	n6	+0.073
		+0.037
420-460	n6	+0.080
		+0.040

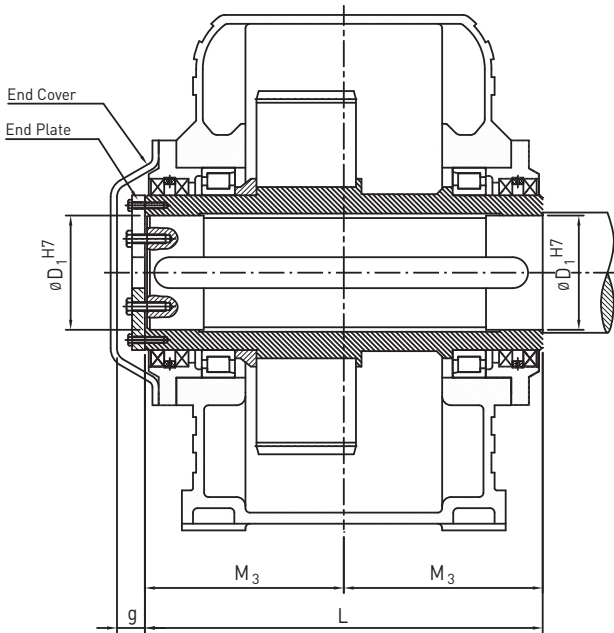
B	tol. On Z	tol.
14-18		0
		-0.043
20-28		0
		-0.052
32-50	h9	0
		-0.062
56-80		0
		-0.074
90-100		0
		-0.087

Shaft ends with keys according to DIN 6885, part 1, Shape A.
 Shaft centering according to DIN 332, shape DS (with thread)

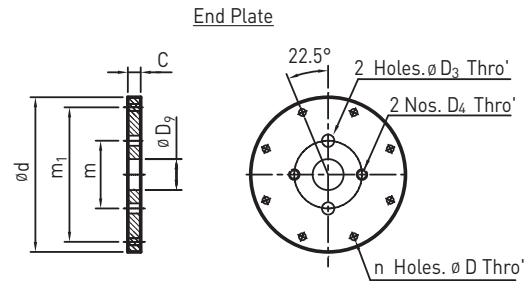
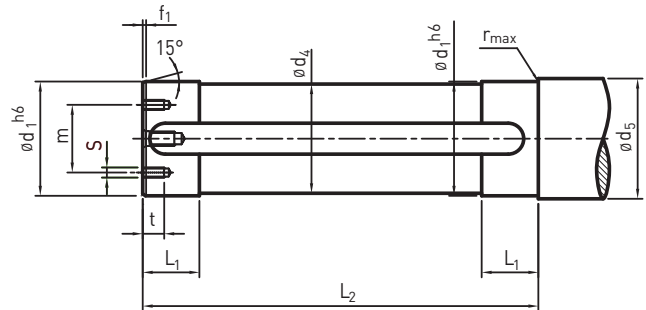
Types S2,S2,S4,K3,K4

Hollow Shafts for Key Connections

Size 26A to 29

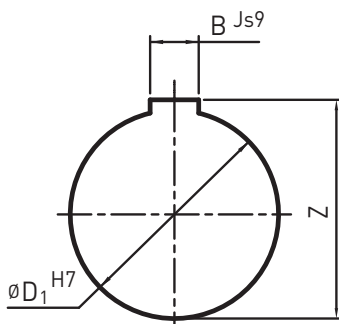


Driven machine shaft for Key connection.
Driven machine shaft for parallel key connection,
Keyway according to DIN:6885/1
Driven machine shaft with tapped centre hole acc. to DIN 332



Gear Unit Size	Hollow Shaft				Driven Machine Shaft										End Plate							
	D_1	L	M_3	g	d_1	d_4	d_5 (min)	r	L_1	L_2	f_1	m	S	t	d	m_1	D_9	C	D	n	D_3	D_4
26A	235	760	380	50	235	234.5	253	3	100	756	8	135	M20	40	295	265	39	25	14	8	22	M20
27	245	760	380	50	245	244.5	263	3	100	756	8	140	M20	40	315	280	39	25	14	8	22	M20
28	260	830	415	50	260	259.5	278	3	110	826	8	150	M20	40	335	300	39	25	14	8	22	M20
29	280	830	415	50	280	279.5	302	3	120	826	9	160	M20	40	355	320	39	25	14	8	22	M20

Hollow Shaft Bore Details



D_1	B	Z	tol. on Z
235	760	380	50
245	760	380	50
260	830	415	50
280	830	415	50

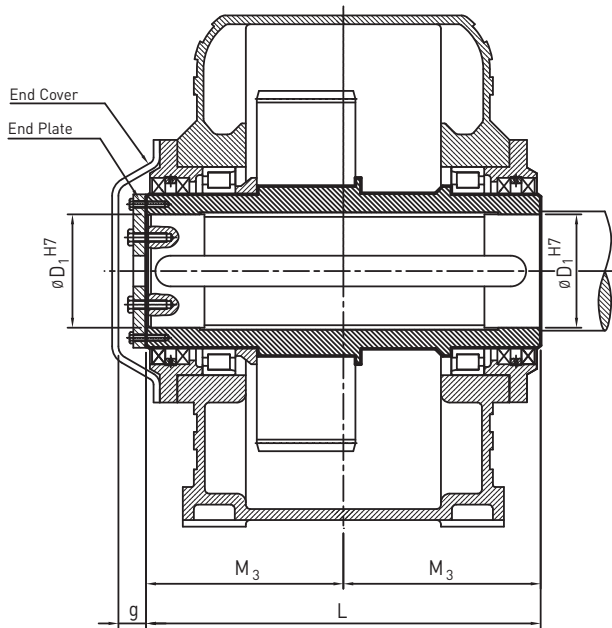
D_1	tol. field	tol.
235	H7	+0.046
245		0
260	H7	+0.052
280		0

B	tol. field	tol.
56	Js9	+0.037
63		-0.037

Types K2

Hollow Shafts for Key Connections

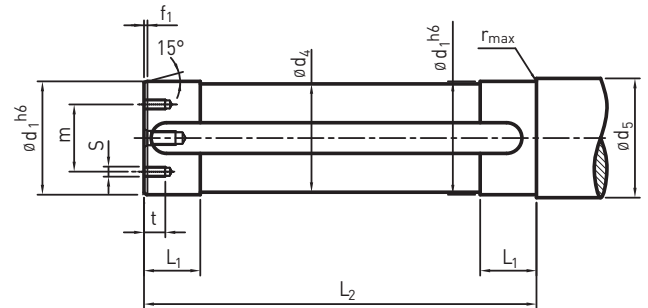
Size 26A to 29



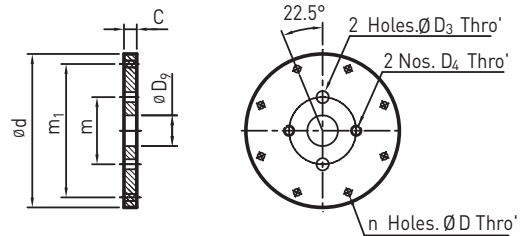
Driven machine shaft for Key connection.

Driven machine shaft for parallel key connection, Keyway according to DIN:6885/1

Driven machine shaft with tapped centre hole acc. to DIN 332

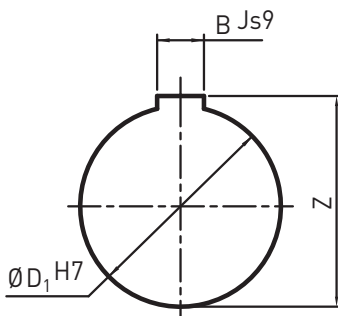


End Plate



Gear Unit Size	Hollow Shaft				Driven Machine Shaft											End Plate						
	D_1	L	M_3	g	d_1	d_4	d_5 (min)	r	L_1	L_2	f_1	m	S	t	d	m_1	D_2	C	D	n	D_3	D_4
26A	235	900	450	50	235	234.5	253	3	100	896	8	135	M20	40	295	265	39	25	14	8	22	M20
27	245	900	450	50	245	244.5	263	3	100	896	8	140	M20	40	315	280	39	25	14	8	22	M20
28	260	1020	510	50	260	259.5	278	3	110	1016	8	150	M20	40	335	300	39	25	14	8	22	M20
29	280	1020	510	50	280	279.5	302	3	120	1016	9	160	M20	40	355	320	39	25	14	8	22	M20

Hollow Shaft Bore Details



D_1	B	Z	tol. on Z
235	56	247.4	+0.3
245	56	257.4	
260	56	272.4	
280	63	292.4	

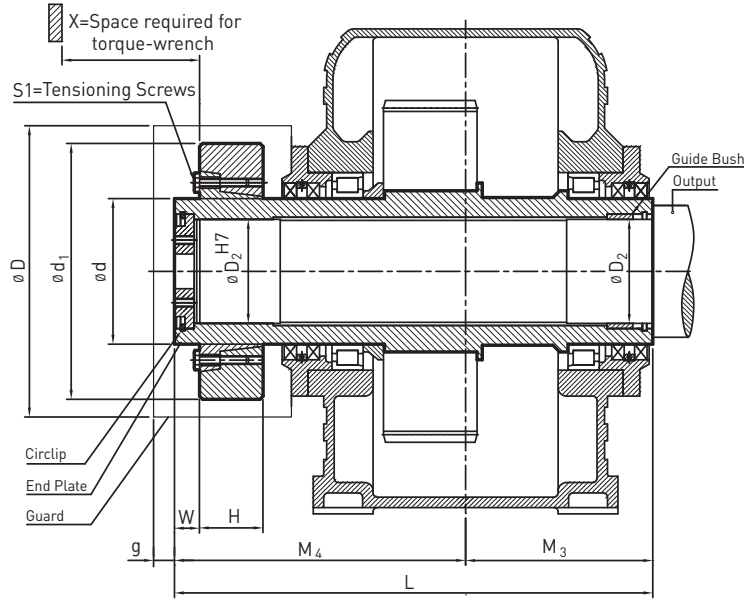
D_1	tol. field	tol.
235	H7	+0.046
245		0
260	H7	+0.052
280		0

B	tol. field	tol.
56	Js9	+0.037
		-0.037
63		

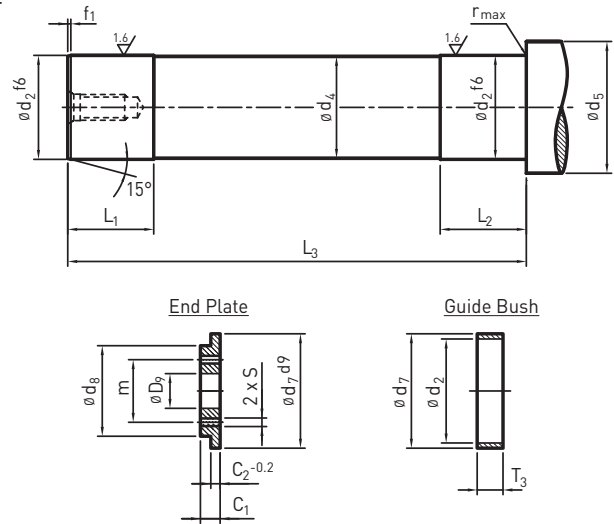
Types S2,S2,S4,K3,K4

Hollow Shafts for Shrink Disc
Standard Mounting Position

Size 26A to 39



Driven machine shaft for shrink disc connection.
Driven machine shaft must be free of oil or grease.
Driven machine shaft with tapped centre hole acc. to DIN 332



Gear Unit Size	Hollow Shaft				Shrink Disc									
	D ₂	L	M ₄	M ₃	Type	d ₁	d	H	W	D (Apprx.)	g	M _t (da Nm)	S1	M _a (da Nm)
26A	235	930	550	380	300 - 235	485	300	140	35	575	25	30000	M24	82
27	245	930	550	380	320 - 245	520	320	140	35	595	25	30100	M24	82
28	260	1015	600	415	340 - 260	570	340	155	37	615	25	42700	M24	82
29	280	1015	600	415	360 - 280	590	360	162	36	635	25	53900	M24	82
30	285	1135	670	465	380 - 285	640	380	166	40	690	25	56400	M27	121
31	315	1135	670	465	390 - 315	650	390	166	40	710	25	79900	M27	121
32	335	1205	715	490	420 - 335	670	420	186	48	725	25	79700	M27	121
33	345	1215	725	490	440 - 345	740	440	194	50	785	25	94500	M27	121
34	375	1340	800	540	460 - 375	770	460	194	53	815	25	117400	M27	121
35	395	1360	820	540	480 - 395	800	480	213	50	845	25	137800	M30	164
36	415	1505	895	610	500 - 415	850	500	213	55	895	25	158100	M30	164
37	435	1535	925	610	530 - 435	910	530	238	55	955	25	193000	M30	164
38	465	1680	1000	680	560 - 465	940	560	238	55	985	25	220100	M30	164
39	475	1700	1020	680	590 - 475	960	590	260	55	1005	25	259300	M30	164

Size	Driven Machine Shaft								Backstop							Guide Bush			
	d ₂	d ₄	d ₅ (min)	r	L ₁	L ₂	L ₃	f ₁	d ₇	d ₈	m	D ₉	S	C ₁	C ₂	d ₂	d ₇	T ₃	Circlip
26A	235	234.5	253	3	157	140	899	8	240	180	140	39	M16	28	14	235	240	100	240 × 5
27	245	244.5	263	3	157	140	899	8	250	190	150	39	M20	28	14	245	250	100	250 × 5
28	260	259.5	278	3	177	150	980	8	265	200	150	39	M20	32	14	260	265	100	270 × 5
29	280	279.5	302	3	177	150	980	9	285	210	160	39	M20	32	14	280	285	100	290 × 5
30	285	284.5	312	3	187	150	1096	9	290	220	170	39	M24	36	15	285	290	100	290 × 5
31	315	314.5	337	3	187	150	1096	9	320	230	180	39	M24	36	15	315	320	100	320 × 6
32	335	334	360	3	205	160	1157	9	340	250	190	45	M24	45	20	335	340	100	340 × 6
33	345	344	370	3	215	160	1167	9	350	260	200	45	M24	45	20	345	350	100	350 × 6
34	375	374	400	3	225	160	1292	10	380	270	210	45	M30	45	20	375	380	100	380 × 6
35	395	394	420	3	245	160	1312	10	400	280	220	45	M30	45	20	395	400	100	400 × 6
36	415	414	450	5	255	165	1452	10	420	290	230	45	M30	50	25	415	420	100	420 × 7
37	435	434	470	5	285	165	1482	10	440	310	250	45	M30	50	25	435	440	100	440 × 7
38	465	464	500	5	295	165	1627	10	470	340	280	45	M30	50	25	465	470	100	470 × 7
39	475	474	510	5	315	165	1647	10	480	350	290	45	M30	50	25	475	480	100	480 × 7

M_a = Required tightening torque. | M_t = Maximum torque transmitted by shrink disc.

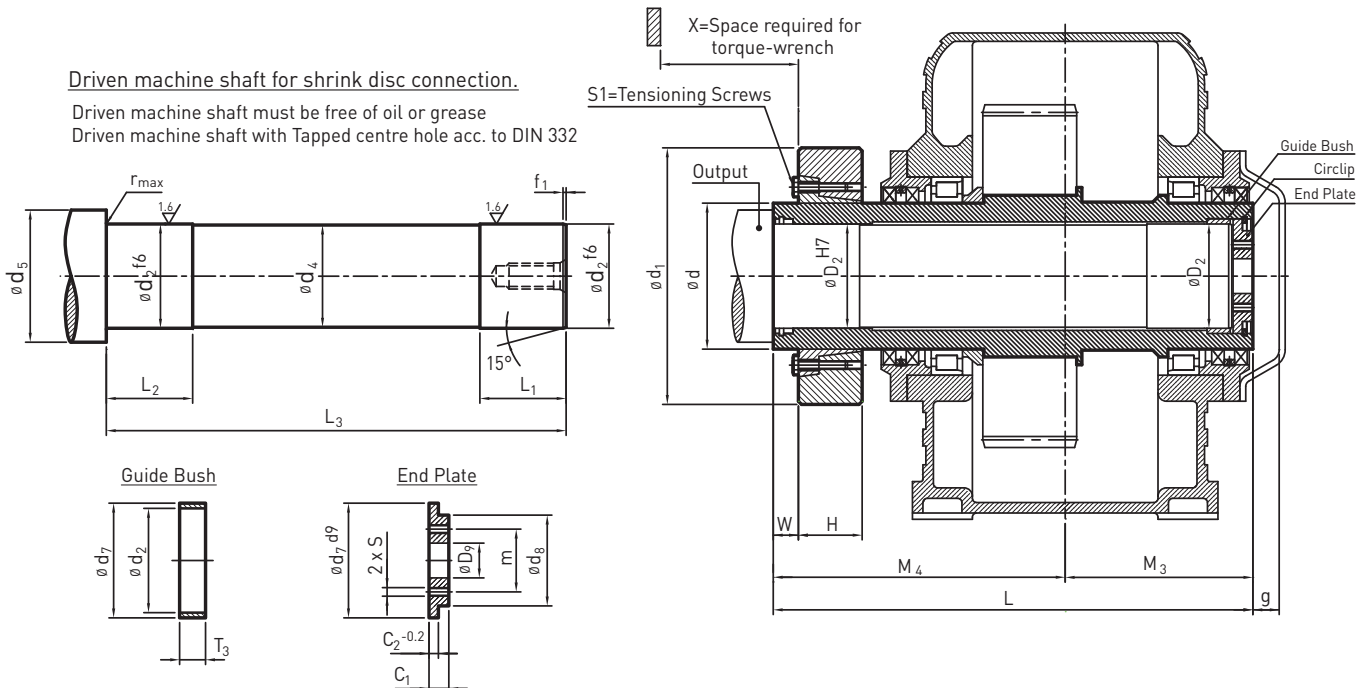
Types S2,S2,S4,K3,K4

Hollow Shafts for Shrink Disc
Alternate Mounting Position

Size 26A to 39

Driven machine shaft for shrink disc connection.

Driven machine shaft must be free of oil or grease
Driven machine shaft with Tapped centre hole acc. to DIN 332



Gear Unit Size	Hollow Shaft					Shrink Disc							
	D ₂	L	M ₄	M ₃	g	Type	d ₁	d	H	W	M _t (da Nm)	S1	M _a (da Nm)
26A	235	930	550	380	50	300 - 235	485	300	140	35	30000	M24	82
27	245	930	550	380	50	320 - 245	520	320	140	35	30100	M24	82
28	260	1015	600	415	50	340 - 260	570	340	155	37	42700	M24	82
29	280	1015	600	415	50	360 - 280	590	360	162	36	53900	M24	82
30	285	1135	670	465	50	380 - 285	640	380	166	40	56400	M27	121
31	315	1135	670	465	50	390 - 315	650	390	166	40	79900	M27	121
32	335	1205	715	490	50	420 - 335	670	420	186	48	79700	M27	121
33	345	1215	725	490	50	440 - 345	740	440	194	50	94500	M27	121
34	375	1340	800	540	50	460 - 375	770	460	194	53	117400	M27	121
35	395	1360	820	540	50	480 - 395	800	480	213	50	137800	M30	164
36	415	1505	895	610	50	500 - 415	850	500	213	55	158100	M30	164
37	435	1535	925	610	50	530 - 435	910	530	238	55	193000	M30	164
38	465	1680	1000	680	50	560 - 465	940	560	238	55	220100	M30	164
39	475	1700	1020	680	50	590 - 475	960	590	260	55	259300	M30	164

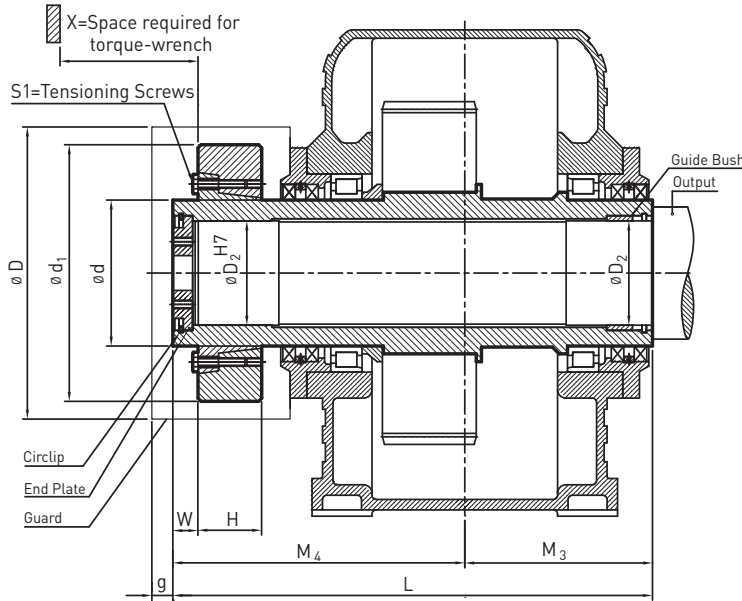
Size	Driven Machine Shaft								Backstop							Guide Bush			
	d ₂	d ₄	d ₅ (min)	r	L ₁	L ₂	L ₃	f ₁	d ₇	d ₈	m	D ₉	S	C ₁	C ₂	d ₂	d ₇	T ₃	Circlip
26A	235	234.5	253	3	110	190	899	8	240	180	140	39	M16	28	14	235	240	100	240 × 5
27	245	244.5	263	3	110	190	899	8	250	190	150	39	M20	28	14	245	250	100	250 × 5
28	260	259.5	278	3	115	215	980	8	265	200	150	39	M20	32	14	260	265	100	270 × 5
29	280	279.5	302	3	115	215	980	9	285	210	160	39	M20	32	14	280	285	100	290 × 5
30	285	284.5	312	3	115	225	1096	9	290	220	170	39	M24	36	15	285	290	100	290 × 5
31	315	314.5	337	3	115	225	1096	9	320	230	180	39	M24	36	15	315	320	100	320 × 6
32	335	334	360	3	120	255	1157	9	340	250	190	45	M24	45	20	335	340	100	340 × 6
33	345	344	370	3	120	265	1167	9	350	260	200	45	M24	45	20	345	350	100	350 × 6
34	375	374	400	3	120	270	1292	10	380	270	210	45	M30	45	20	375	380	100	380 × 6
35	395	394	420	3	120	290	1312	10	400	280	220	45	M30	45	20	395	400	100	400 × 6
36	415	414	450	5	120	305	1452	10	420	290	230	45	M30	50	25	415	420	100	420 × 7
37	435	434	470	5	120	340	1482	10	440	310	250	45	M30	50	25	435	440	100	440 × 7
38	465	464	500	5	120	350	1627	10	470	340	280	45	M30	50	25	465	470	100	470 × 7
39	475	474	510	5	120	370	1647	10	480	350	290	45	M30	50	25	475	480	100	480 × 7

M_a = Required tightening torque. | M_t = Maximum torque transmitted by shrink disc.

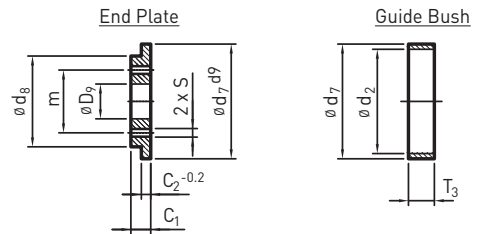
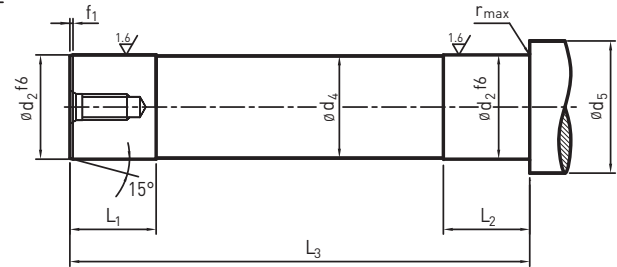
Types K2

Hollow Shafts For Shrink Disks
Standard Mounting Position

Size 26A to 29



Driven machine shaft for shrink disc connection.
Driven machine shaft must be free of oil or grease
Driven machine shaft with Tapped centre hole acc. to DIN 332



Gear Unit Size	Driven Machine Shaft				Shrink Disc									
	D ₂	L	M ₄	M ₃	Type	d ₁	d	H	W	D (Apprx.)	g	M _t (da Nm)	S1	M _a (da Nm)
26A	235	1070	620	450	300 - 235	485	300	140	35	575	25	30000	M24	82
27	245	1070	620	450	320 - 245	520	320	140	35	595	25	30100	M24	82
28	260	1210	700	510	340 - 260	570	340	155	37	615	25	42700	M24	82
29	280	1210	700	510	360 - 280	590	360	162	37	635	25	53900	M24	82

Size	Driven Machine Shaft								Backstop							Guide Bush			
	d ₂	d ₄	d ₅ (min)	r	L ₁	L ₂	L ₃	f ₁	d ₇	d ₈	m	D ₉	S	C ₁	C ₂	d ₂	d ₇	T ₃	Circlip
26A	235	234.5	253	3	157	140	1039	8	240	180	140	39	M16	28	14	235	240	100	240 × 5
27	245	244.5	263	3	157	140	1039	8	250	190	150	39	M20	28	14	245	250	100	250 × 5
28	260	259.5	278	3	177	150	1175	8	265	200	150	39	M20	32	14	260	265	100	270 × 5
29	280	279.5	302	3	177	150	1175	9	285	210	160	39	M20	32	14	280	285	100	290 × 5

M_a = Required tightening torque.

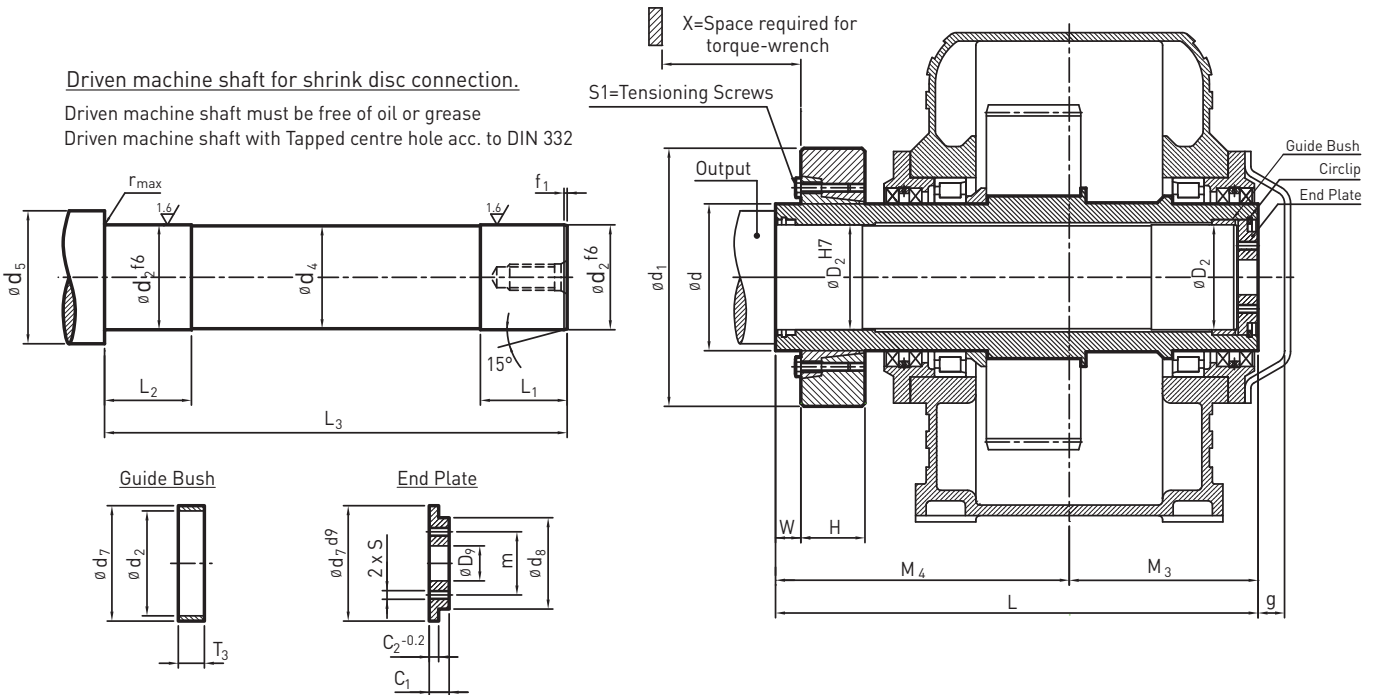
M_t = Maximum torque transmitted by shrink disc.

Types K2

Hollow Shafts For Shrink Disks
Alternate Mounting Position

Size 26A to 29

Driven machine shaft for shrink disc connection.
Driven machine shaft must be free of oil or grease
Driven machine shaft with Tapped centre hole acc. to DIN 332



Gear Unit Size	Driven Machine Shaft				Shrink Disc									
	D ₂	L	M ₄	M ₃	Type	d ₁	d	H	W	D (Apprx.)	g	M _i (da Nm)	S1	M _a (da Nm)
26A	235	1070	620	450	50	300 - 235	485	300	140	35	30000	M24	82	82
27	245	1070	620	450	50	320 - 245	520	320	140	35	30100	M24	82	82
28	260	1210	700	510	50	340 - 260	570	340	155	37	42700	M24	82	82
29	280	1210	700	510	50	360 - 280	590	360	162	37	53900	M24	82	82

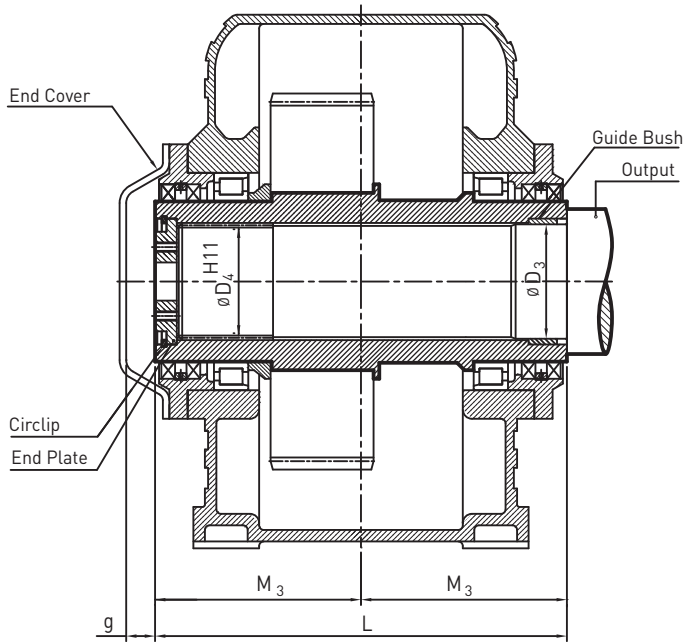
Size	Driven Machine Shaft								Backstop						Guide Bush				
	d ₂	d ₄	d ₅ (min)	r	L ₁	L ₂	L ₃	f ₁	d ₇	d ₈	m	D ₉	S	C ₁	C ₂	d ₂	d ₇	T ₃	Circlip
26A	235	234.5	253	3	110	190	1039	8	240	180	140	39	M16	28	14	235	240	100	240 × 5
27	245	244.5	263	3	110	190	1039	8	250	190	150	39	M20	28	14	245	250	100	250 × 5
28	260	259.5	278	3	115	215	1175	8	265	200	150	39	M20	32	14	260	265	100	270 × 5
29	280	279.5	302	3	115	215	1175	9	285	210	160	39	M20	32	14	280	285	100	290 × 5

M_a = Required tightening torque.
M_i = Maximum torque transmitted by shrink disc.

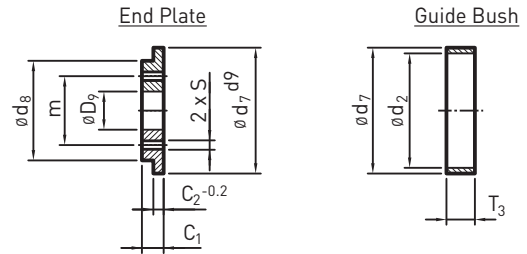
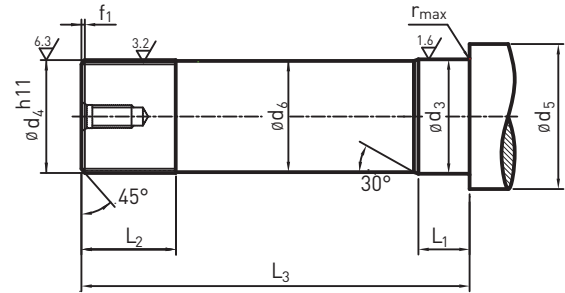
Types S2, S3, S4, K3, K4

Hollow Shafts with Involute Spline

Size 26A to 29



Driven machine shaft with Involute Spline
Driven machine for connection via involute splines, to be greased on assembly.
Driven machine shaft with Tapped centre hole acc. to DIN 332



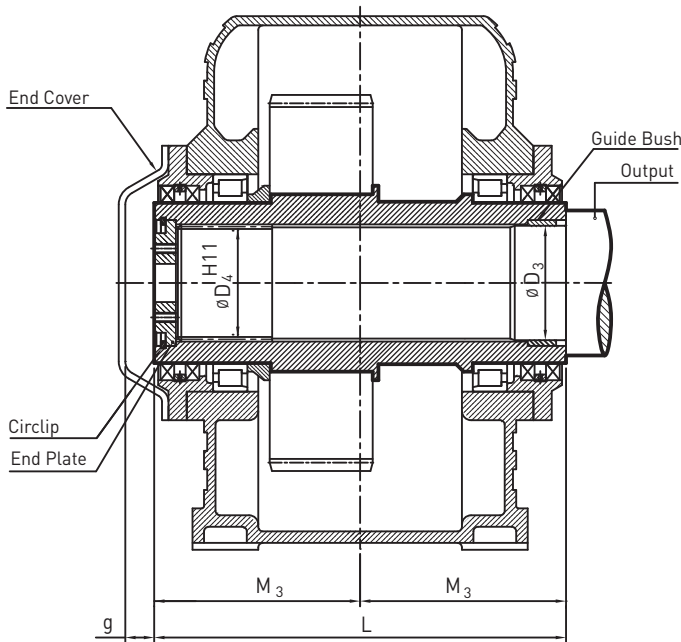
Gear Unit Size	Involute Splines DIN 5480	Driven Machine Shaft									Backstop				
		d ₄	d ₃	d ₆	d ₅ (min)	r	L ₁	L ₂	L ₃	f ₁	D ₄	D ₃	L	M ₃	g
26A	W220×5×42×8f	219	225	218	240	3	157	200	728	5	210	225	760	380	50
27	W220×5×42×8f	219	225	218	240	3	157	200	728	5	210	225	760	380	50
28	W250×5×48×8f	249	255	248	270	3	177	215	794	5	240	255	830	415	50
29	W250×5×48×8f	249	255	248	270	3	177	215	794	5	240	255	830	415	50

Gear Unit Size	End Plate							Guide Bush			
	d ₇	d ₈	m	D ₉	S	C ₁	C ₂	d ₂	d ₇	T ₃	Circlip
26A	230	170	130	39	M16	28	14	225	230	100	230 × 5
27	230	170	130	39	M16	28	14	225	230	100	230 × 5
28	260	200	150	39	M20	32	14	255	260	100	260 × 5
29	260	200	150	39	M20	32	14	255	260	100	260 × 5

Types K2

Hollow Shafts with Involute Spline

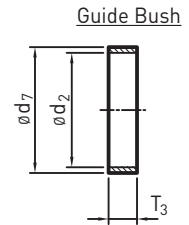
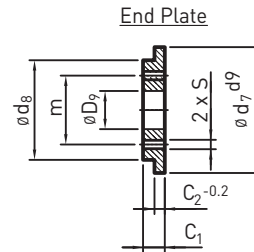
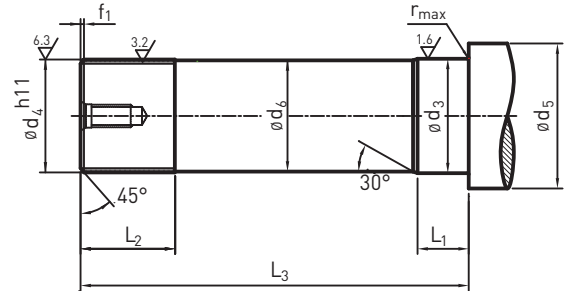
Size 26A to 29



Driven machine shaft with Involute Spline

Driven machine for connection via involute splines, to be greased on assembly.

Driven machine shaft with Tapped centre hole acc. to DIN 332



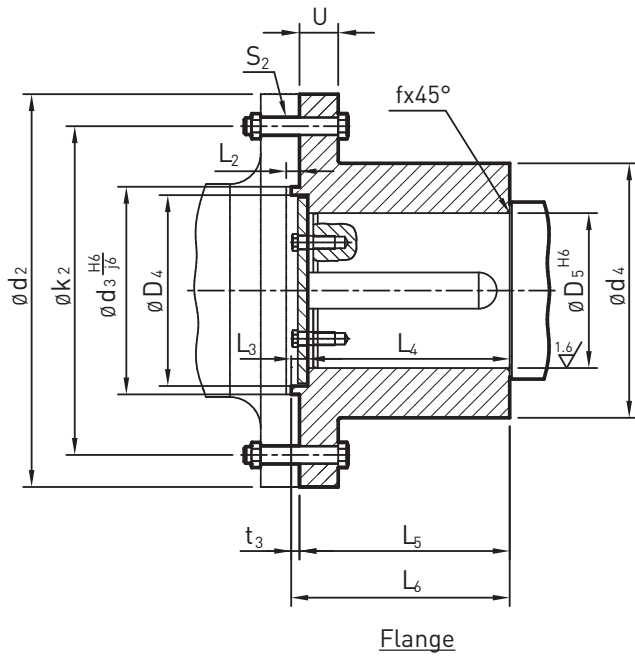
Gear Unit Size	Involute Splines DIN 5480	Driven Machine Shaft									Backstop				
		d_4	d_3	d_6	d_5 (min)	r	L_1	L_2	L_3	f_1	D_4	D_3	L	M_3	g
26A	W220×5×42×8f	219	225	218	240	3	157	200	868	5	210	225	900	450	50
27	W220×5×42×8f	219	225	218	240	3	157	200	868	5	210	225	900	450	50
28	W250×5×48×8f	249	255	248	270	3	177	215	984	5	240	255	1020	510	50
29	W250×5×48×8f	249	255	248	270	3	177	215	984	5	240	255	1020	510	50

Gear Unit Size	End Plate							Guide Bush			
	d_7	d_8	m	D_9	S	C_1	C_2	d_2	d_7	T_3	Circlip
26A	230	170	130	39	M16	28	14	225	230	100	230 × 5
27	230	170	130	39	M16	28	14	225	230	100	230 × 5
28	260	200	150	39	M20	32	14	255	260	100	260 × 5
29	260	200	150	39	M20	32	14	255	260	100	260 × 5

Types S2, S3, S4, K2, K3, K4

Flanged Shafts-Key Fit Design

Size 26A to 29



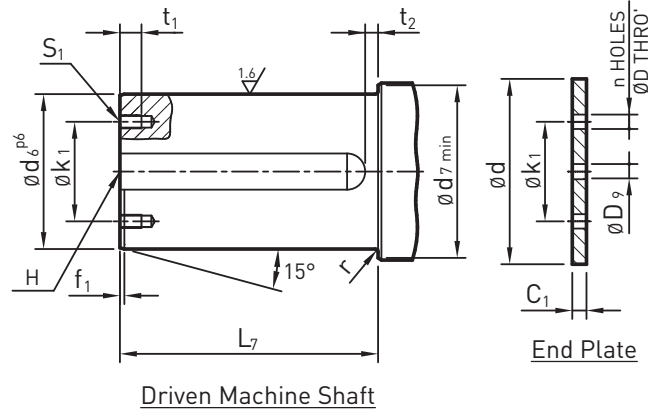
Flange

Driven machine shaft for Key connection.

Driven machine shaft for parallel key connection,

Keyway according to DIN:6885/1 (Two keyways offset @ 180°)

Driven machine shaft with tapped centre hole acc. to DIN 332.



Driven Machine Shaft

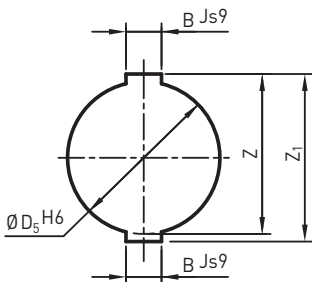
End Plate

Size	Flange Details														Bolt Size		
	d_2	d_3	d_4	D_5	k_2	L_2	L_3	L_4	t_3	U	D_4	f	L_5	L_6	S_2	Qty.	Torque Nm
mm																	
26A	710	360	460	280	630	25	51	383	15	55	315	6	419	434	M30x150	28	2100
27	740	360	480	300	660	25	56	413	15	55	335	6	454	469	M30x150	30	2100
28	750	410	520	320	660	25	56	439	16	60	355	6	479	495	M36x160	24	3560
29	800	410	550	340	710	25	56	469	16	60	375	6	509	525	M36x160	26	3560

Size	Driven Machine Shaft Details									
	ϕd_6	k_1	H	S_1	t_1	t_2	ϕd_7	f_1	r	L_7
mm										
26A	280	110	M36	M30	46	20	310	3	5	380
27	300	110	M36	M30	46	20	330	4	6	410
28	320	120	M36	M30	46	26	355	4	6	436
29	340	120	M42	M30	46	26	375	4	6	466

Size	End Plate Details					
	ϕd	k_1	C_1	ϕD	ϕD_9	n
mm						
26A	310	110	25	33	39	4
27	330	110	30	33	39	4
28	350	120	30	33	39	4
29	370	120	30	33	45	4

Flange Bore Details



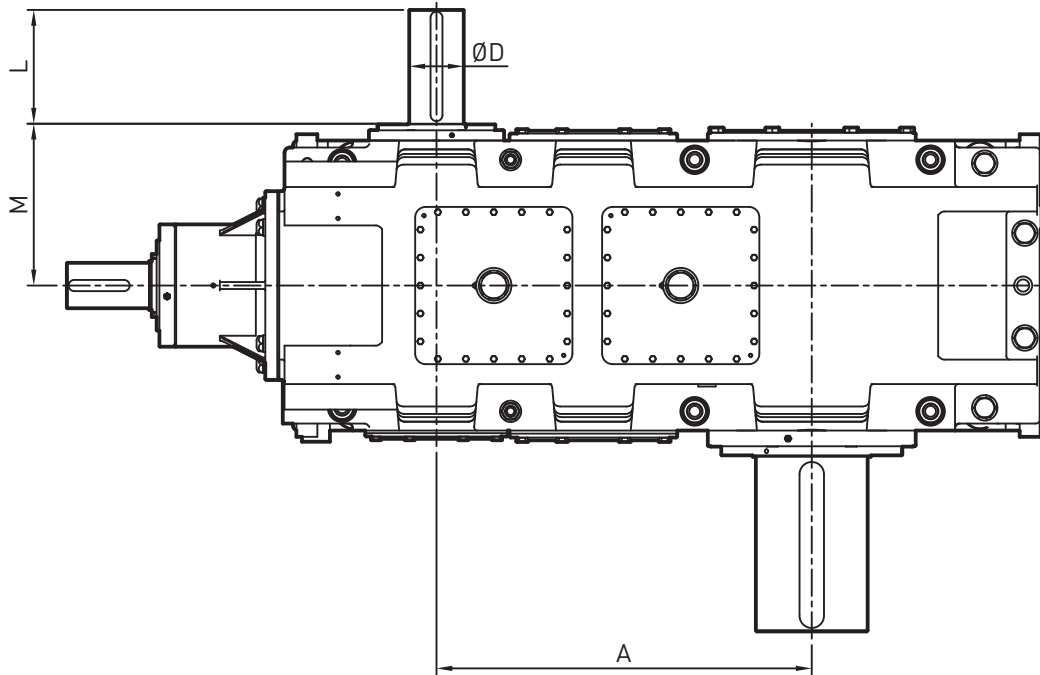
D_5	B	Z	Z_1	tol. On Z
280	63	292.4	304.8	+0.3
300	70	314.4	328.8	
320	70	334.4	348.8	
340	80	355.4	370.8	

D_5	tol. Field	tol.
280	H6	+0.032
300		0
320	H6	+0.036
340		0

B	tol. Field	tol.
63	Js9	+0.037 -0.037
70		
70		
80		

Additional Intermediate Shaft Details

Bevel Helical Gear Units



K2/K3/K4

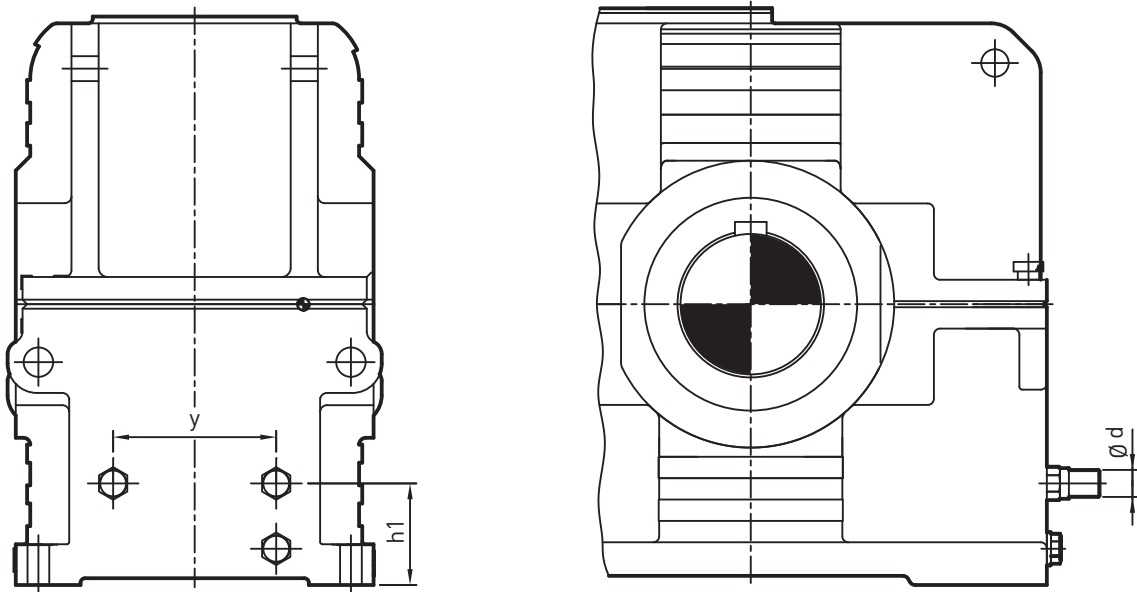
K2				
Size	A	D	L	M
26A	449	140	250	475
27	490	140	250	475
28	496	160	280	550
29	550	160	280	550

K3				
Size	A	D	L	M
26A	772	90	150	380
27	813	90	150	380
28	870	110	180	440
29	924	110	180	440
30	1004	140	250	495
31	1059	140	250	495
32	1074	140	250	510
33	1134	140	250	510
34	1186	160	280	570
35	1256	160	280	570
36	On Request			
37				
38				
39				

K4				
Size	A	D	L	M
26A	992	70	120	380
27	1033	70	120	380
28	1039	70	120	415
29	1093	70	120	415
30	1199	85	150	465
31	1254	85	150	465
32	1397	90	150	490
33	1457	90	150	490
34	1509	100	180	540
35	1579	100	180	540
36	On Request			
37				
38				
39				

Cooling Coil

Helical / Bevel Helical Gear Units



Cooling Coil Connections

Size	S2, S3, K2 & K3		
	d	h ₁	y
26A	1/2"	160	255
27	1/2"	160	255
28	1/2"	160	320
29	1/2"	160	320

Built-in cooling coils of normal design suitable for fresh water.

[mains & recirculated water not to be chemically polluted]

Sea water & brackish water require cooling coils of special design.

Maximum permissible pressure of water : 8 bar.

The direction of flow of the water is optional.

Contact thermometers & water control valves can also be offered.

2] Approximate values: exact values acc. to order related documents

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