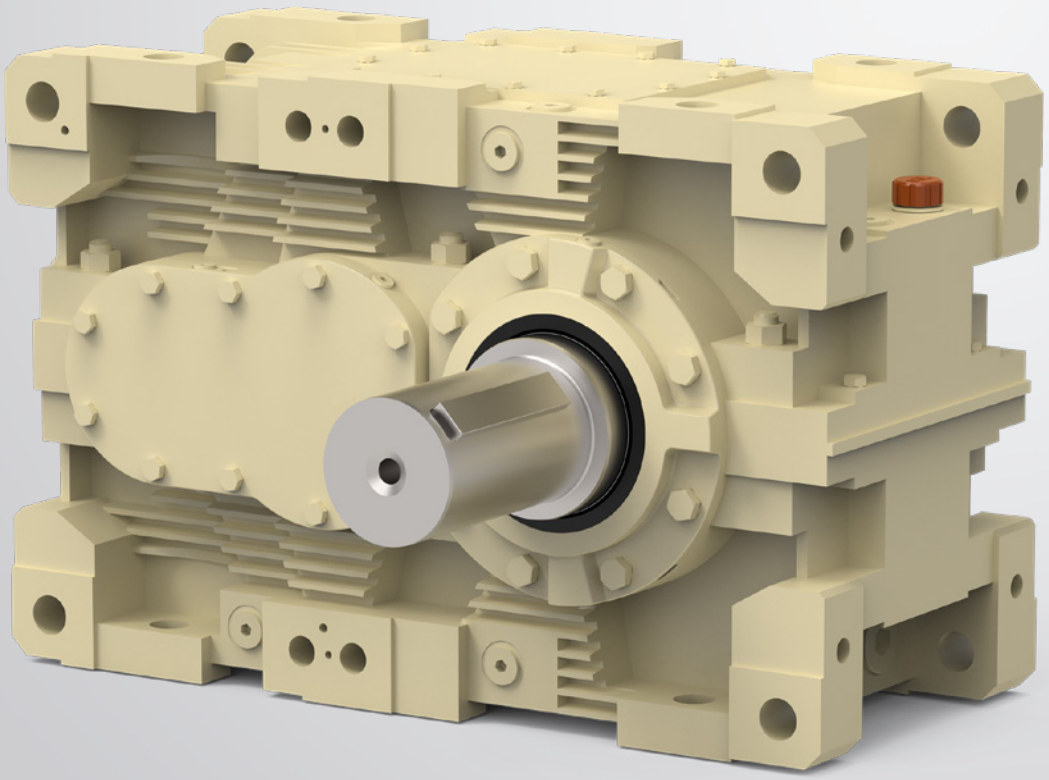
WCG50

Ex h

Industrial Gearboxes for Hazardous Areas



WEG CESTARI REDUTORES

Ex h GEARBOXES the choice for those who prioritize safety.

Gearboxes and gearmotors now certified for hazardous locations.

Leading a new era in industrial safety, the WEG-CESTARI WCG20 Ex h and WCG50 Ex h gearboxes are ready to operate in explosive atmospheres, combining their well-known robustness with the protection the market demands. More than a new solution, this is the consolidation of our commitment to innovation and to safeguarding the most critical industrial processes.

With proven performance and now certified safety, WEG-CESTARI gearboxes raise the standard for solutions in hazardous locations.

Reduce more than speed:
Reduce risks, reduce concerns.

Third-party certification	Continuous protection for operators and assets	Ideal for controlled-risk environments

Compliant with:

ISO 80079-36
ISO 80079-37

ATEX

IECEx

/wegcestari.com



WEG CESTARI
REDUTORES

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1 GENERAL CHARACTERISTICS

WCG50 Ex h Series: Industrial Gearboxes Suitable for Explosive Atmospheres

The WCG50 Ex h series was developed to meet the needs of applications in environments with explosive atmospheres, combining operational safety, reliability, and mechanical robustness in a complete power transmission solution.

Based on the renowned WEG-CESTARI gearbox platform, the WCG50 Ex h series incorporates design requirements and specially selected components to meet the demands of applications in classified areas, while maintaining performance, durability, and ease of integration with motors suitable for explosive atmospheres.

With applied engineering and a focus on operational continuity, the WCG50 Ex h line offers high reliability, long service life, reduced maintenance requirements, and greater safety for industrial operations in critical environments. Discover the WCG50 Ex h line and the benefits it can provide for your application.

Classified Area

According to the definitions in ABNT NBR IEC 60079-10-1 and ABNT NBR IEC 60079-10-2, an explosive atmosphere is "a mixture with air, under atmospheric conditions, of flammable substances in the form of gas, vapor, dust, fibers, or suspended particles, in which, following ignition, self-sustained propagation is possible". A classified area is an "area in which an explosive gas or dust atmosphere is present or is expected to be present in quantities such that special precautions are required for the construction, installation, and use of equipment." For this reason, pressure reducers with Ex h protection are designed to ensure the equipment's degree of protection and temperature control.

Hazardous areas are classified by zones, groups, and temperature classes:

Classification by Zones: based on the frequency and duration of explosive atmospheres and on the type of flammable material (gases/vapors or dust).

- **Zone 0 (gases/vapors) or 20 (dusts):** an explosive atmosphere is continuously present.
- **Zone 1 (gases/vapors) or 21 (dusts):** an explosive atmosphere is present intermittently.
- **Zone 2 (gases/vapors) or 22 (dusts):** an explosive atmosphere is present under abnormal conditions.
- **Zone 2/22:** an explosive atmosphere does not occur under normal operating conditions, and if it does occur, it will be for a short time.
- **Zone 1/21:** an explosive atmosphere occurs under normal operating conditions.
- **Zone 0/20:** an explosive atmosphere is present continuously (not applicable to reducers).

Classification by Groups: subdivision based on the type of flammable material present.

Group I: gases present in underground mines (e.g., methane).

Group II: gases present in other classified areas.

Subdivisions of Group II:

Group IIA: example: propane.

Group IIB: example: ethylene.

Group IIC: example: hydrogen.

Group III: dusts.

Subdivisions of Group III:

Group IIIA: solid particles larger than 500 µm in suspension combustible dusts

Group IIIB: non-conductive dust, with particles 500 µm or smaller, having an electrical resistivity greater than 10^3 Ω·m - coal dust.

Group IIIC: conductive dust, with particle sizes of 500 µm or less, and electrical resistivity of 10^3 Ω·m or less - metal dust.

Classification by Temperature Classes: based on temperature limits related to the ignition temperature of the flammable material present. The ABNT NBR IEC 60079-0 standard defines the external surface temperature limits for electrical equipment designed for Groups I, II, and III.

Group I - Underground coal mines (methane and coal dust):

Conditions	Maximum Surface Temperature (°C)
Where coal dust is not prone to forming a layer	450
Where coal dust can form a layer	150

Group II - Gases and vapors:

Temperature Class	Maximum Reducer Surface Temperature (°C)	Ignition Temperature of the Flammable Material (°C)
T1	450	> 450
T2	300	> 300
T3	200	> 200
T4	135	> 135
T5	100	> 100
T6	85	> 85

Group III - Conductive dusts:

Conditions	Maximum Surface Temperature (ºC) (*)
With dust layers	The maximum surface temperature of the equipment must be determined for a given depth of the dust layer
Without dust layers	The maximum surface temperature of the equipment must not exceed the specified maximum surface temperature. For Ex h gearboxes, the designated standard temperature is T125 °C

Note: (*) On any surface of the housing.

Equipment Protection Level (EPL)

In addition to the traditional method for classifying hazardous areas specified in ABNT NBR IEC 60079-10-1 and ABNT NBR IEC 60079-10-2, which considers only the possibility of an explosion occurring, the new version of the ABNT NBR IEC 60079-0 standard introduced a risk assessment approach called EPL. This concept originates from the protection category system used in the European Directive on Explosive Atmospheres (ATEX) and allows for an approach to the selection and specification of equipment for explosive atmospheres based on a risk assessment study specific to each facility, in which the consequences of a potential explosion for that particular facility are evaluated. The Equipment Protection Level designation system follows this rule:

First Digit:

M - Mine susceptible to firedamp
G - Gas
D - Dust

Second Digit:

a - Equipment with a "very high" protection level.

b - Equipment with a "high" level of protection.

c - Equipment with a "moderate" protection level The relationship between Groups, Zones, and EPLs is shown in the table below:

Group	Zone	EPL
Group I	-	Ma
		Mb
Group II	0	Ga
	1	Gb
	2	Gc
Group III	20	Da
	21	Db
	22	Dc

WCG50 Ex h gearmotors are suitable for operation in Zones 1/21, 2/22, Groups IIA, IIB, IIC, IIIA, IIIB, IIIC, temperature class T4, and EPL Gc, Gb, Dc, and Db.

Ex h Protection

Ex h is a type of protection in which non-electrical equipment is designed so as not to cause ignition of an explosive atmosphere during normal operation or in the event of a foreseeable malfunction.

Protection Method k: a type of protection in which potential ignition sources are rendered ineffective or separated from the explosive atmosphere, either by total immersion in a protective liquid or by partial immersion and continuous coating of their active surfaces with a protective liquid, so that an explosive atmosphere that may be present above the liquid or outside the equipment enclosure cannot be ignited.

Protection Method c: protection against ignition, in which design measures are applied to protect against the possibility of ignition from hot surfaces, sparks, and adiabatic compression generated by moving parts.

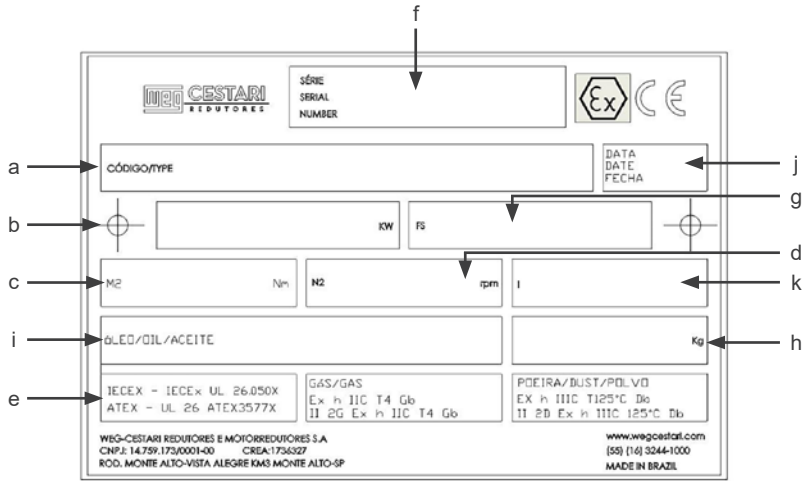
2 TECHNICAL DATA

Size		W01	W02	W03	W04	W05	W06	W07	W08	W09	W10	W11	W12	W13	W14	W15	W16
Torque [Nm]		7500	9500	13000	16500	22000	28000	36000	46000	58500	67000	80000	92000	115000	132000	158000	178000
Shaft Arrangement		Parallel and right angle															
Parallel and Right Angle K	Ratio	6.3-80	8-100	6.3-355	8-450	6.3-355	8-450	6.3-355	8-450	6.3-355	7.1-400	6.3-355	7.1-400	6.3-355	7.1-400	6.3-355	7.1-400
	Number of Stages	2/3	2/3	2/3/4	2/3/4	2/3/4	2/3/4	2/3/4	2/3/4	2/3/4	2/3/4	2/3/4	2/3/4	2/3/4	2/3/4	2/3/4	2/3/4
Right Angle Shafts T	Ratio	16-80	20-100	16-355	20-450	16-355	20-450	16-355	20-450	16-355	18-400	16-355	18-400	16-355	18-400	16-355	18-400
	Number of Stages	3	3	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Housing	Material	Nodular cast iron															
	Type	Monoblock				Split housing											
Solid Shaft	Design	With keyway and key in accordance with DIN 6885.1 and threaded bore in accordance with DIN 332															
	Tolerance	<= Ø50 k6 / >= Ø55 m6															
	Material	SAE 4140															
Hollow Shaft with Keyway	Design	With a keyway in accordance with DIN 6885.1 and a threaded hole in accordance with DIN 332															
	Tolerance	H8															
	Material	SAE 4140															
Hollow Shaft with Shrink Disc	Design	Hollow shaft with shrink disc															
	Tolerance	H7															
	Material	SAE 4140															
Gear	Design	Case-hardened with ground tooth flanks (cylindrical gears) or lapped/ground (bevel gears)															
	Material	DIN 18CrNiMo7-6															
Retainers	Design	Form A / AS according DIN 3760															
	Material	FKM															

Specification	Description
Protection Type	**Ex h** - mechanical protection (ISO 80079-37)
Zones	**1 / 21** (probable presence of gas or dust)
	2 / 22 (occasional and short-term presence)
Gas groups	**IIC** - high-risk gases, such as hydrogen and acetylene
	IIIC - conductive dusts, such as aluminum and coal
Temperature class	**T4 / T125 ºC** - maximum surface temperature limited to 135 °C for gases and 125 °C for dusts
EPL - Equipment Protection Level	**Gb, Gc, Db e Dc** - high/medium protection level

2.1 NAMEPLATE

The nameplate is made of AISI 304 stainless steel and measures 62x94 mm.



a - Product name	g - Duty factor
b - Motor power	h - Mass
c - Output torque	i - Oil quantity and type
d - Output speed	j - Date of manufacture
e - Certificate number	k - Gear ratio
f - Serial number	

2.2 SELECTION FOR GEARBOXES

A gearbox transmits power from the primary machine usually an electric motor operating at a specific speed to the equipment, thereby reducing the speed; the power available at the gearbox's output shaft is equal to the power available at the input shaft, minus losses that are converted into heat.

The service factor quantifies the influence of external conditions on the gearbox's operation. External conditions include: number of starts per hour, operating time, and the presence of shocks and vibrations, among others. In practice, this means the additional torque the gearbox must withstand beyond the torque actually being transmitted to ensure it can handle the daily operating conditions of the driven machine, load variations, and any overloads that may occur.

The data in this catalog refer to the sizing of gearboxes, considering a service factor of 1.00 that is, uniform load, operation up to 8 hours per day, up to 5 starts per hour, an ambient temperature of 20 °C, an altitude of up to 750 m above sea level, a maximum oil temperature of 90 °C, and loads without reversal. For other service factors, see the Table 3.1 on page 11.

The permissible torque M2 values in the selection tables apply to input speeds ranging from 1000 to 1800 rpm. For input speeds between 500 rpm and 1000 rpm, the values for 1000 rpm should be used for M2. For input speeds below 500 rpm, consult WEG-CESTARI.

Check the maximum allowable input shaft speed according to Chapter 19 MAXIMUM SPEED ON THE INPUT SHAFT on page 11.

3 MECHANICAL POWER

M2 = allowable torque on the gearbox output shaft (catalog tables).
T1 = drive torque on the input shaft.
T2 = drive torque on the output shaft.
Pa = operating power (input shaft).
FS = service factor.
n1 = drive speed (input shaft).
n2 = output shaft speed.
i = reduction.

T1 = 9550 × Pa / n1.
T2 = T1 × i.

- Unidirectional load and constant torque: M2 ≥ T2 × FS.
- When there is load reversal with constant torque: M2 ≥ T2 × FS × 1.43.

Upon request:

- Variable torque.
- Service factor greater than 5.00.

3.1 RECOMMENDED SERVICE FACTORS

Table 3.1: Service factors

Application	FS
Agitators and Mixers	
Pure liquids	(1)
Liquids and Solids	1.50
Liquids of varying density	1.50
Pumps	
Centrifugal	1.50
Reciprocating (single-cylinder)	1.75
Reciprocating (multi-cylinder)	1.50
Gear-driven rotary engines	1.50
Vane rotary	1.50
Helical pumps	1.50
Compressors	
Centrifugal	1.50
Screw	1.75
Reciprocating - multi-cylinder	1.75
Reciprocating - single-cylinder	2.00
Dredgers	
Pumps	2.00
Rotary heads	2.00
Winches	1.50
Screens	2.00
Conveyors	1.50
Elevators	
Freight elevators	1.50
Passenger elevators	(1)
Escalators	1.50
Power	
Frequency converters	2.00
Hydraulic generators (low speed)	1.75
Hydraulic turbines	(1)

Application	FS
Extruders	
Plastic	1.50
Rubber	1.75
Cereal	2.00
Food Industry	
Centrifuges	2.00
Cutters	1.50
Grain Cookers	1.50
Desolventizer-roaster (DT)	2.00
Mixers	1.50
Mills and crushers	1.75
Presses	2.00
Rotary dryers	1.50
Agitators and Mixers	
Low-speed agitators	1.50
High-speed agitators	2.00
Crystallizers	1.75
Defibrators	2.50
Exhaust fans	2.00
Food processors	2.50
Belt conveyors	1.50
Chain conveyors	1.75
Rubber Industry	
Calenders	1.75
Extruders	1.75
Mixers	2.00
Heating mills	1.75
2-in-line cylindrical mills	2.00
3-in-line cylindrical mills	1.75
Rolling mills	2.00
Trimming machines	2.00
Shredders	2.00
Ceramics Industry	
Clay Mixers	1.50
Mixers	1.50
Clay Mills	(1)
Brick and Tile Presses	2.00
Cement Industry	
Jaw Crusher	2.00
Rotary Mill	2.00
Ball and Roller Mill	2.00
Rotary kilns	2.00
Separators	1.50
Roller crusher	2.00
Wood Industry	
Planer feeders	1.50
Woodworking Machinery (General)	1.50
Saws	2.00

Application	FS
Pulp and Paper Industry	
Beaters	2.00
Calenders	2.00
Peelers	2.00
Pulp removers	2.00
Filters	2.00
Paper machine	2.00
Shredders	2.00
Presses	1.75
Dryers	2.00
Agitators and Mixers	
Rotary Disc Sheet Cutters	2.00
Blade-type sheet metal cutters	2.00
Bending Machines	2.00
Wire drawing machines	1.75
Tension rollers	2.00
Cable reel	1.50
Rollers	1.50
Saws	1.50
Coil winders and unwinders	1.75
Conveyor table	2.00
Shears	2.00
Mining	
Rotary drives	1.75
Excavators	(1)
Crushers	2.00
Vibrators	2.00
Rotary Mills and Drums	
Ball and roller mills	2.00
Hammer Mill	2.00
Coal Mill	1.75
Dryers	1.75
Coolers	1.75
Crane Systems	
Cranes	(1)
Freight elevators	(1)
Conveyors	
Bucket elevator	1.50
Belt conveyors ≤100 kW	1.50
Belt conveyors >100 kW	1.75
Screw conveyors	1.50
Vibrators	2.00

Application	FS
Water Treatment and Sanitation	
Aerators	2.00
Chemical Feeders	(1)
Screw Pumps	1.50
Manifolds	1.50
Thickeners	1.50
Vacuum filters	1.50
Screens	1.50
Fans	
Centrifugal	(1)
Industrial and mining	1.75
Blowers (forced)	1.50
Cooling towers	(1)
Heat exchangers	1.50
Overhead cranes	
-	(1)

Notes: (1) For these applications, consult WEG-CESTARI.
For gearboxes that use a backstop, consider a minimum service factor of 1.50.

4 THERMAL POWER

Thermal power PT is the power that the gearbox can continuously transmit without exceeding an oil temperature of 90 °C.

PT = PTG × fa × fc × fh × ft.

PT = PTV × fa × fc × fh × ft × fv.

PT ≥ Pa.

Where:

Pa = drive power.

PT = thermal power.

PTG = thermal capacity of the gearbox without auxiliary systems (dissipated by the housing).

PTV = thermal capacity of the gearbox with a fan installed at the input end. for a fan on the side opposite the input end. consult WEG-CESTARI.

PTG and PTV: selection tables in the catalog.

fa = ambient temperature factor.

fc = ambient factor air velocity.

fh = altitude factor.

ft = oil temperature factor.

fv = radial fan factor.

Ambient Temperature Factor - fa	
Ambient Temperature (ºC)	fa
10	1.14
15	1.07
20	1.00
25	0.93
30	0.86
35	0.79
40	0.71

Altitude Factor - fh	
Altitude (m)	fh
0 (sea level)	1.00
1000	0.95
1.500	0.90
2.250	0.85
3.000	0.81
3.750	0.77
4.500	0.72
5.250	0.68

Ambient Factor - fc		
Ambient	Air Velocity (m/s)	fc
Enclosed interior	≤ 1.4	0.75
Industrial enclosed warehouse	> 1.4 ≤ 3.0	1
outdoors, protected from the sun	> 3	1.25

Oil Temperature Factor - ft	
Oil Temperature (°C)	ft
70	0.71
71	0.73
80	0.86
85	0.93
90	1.00

Notes: For ambient temperatures between -20 and 10 °C, consult WEG-CESTARI.
For fans installed with a lantern flange, use fv = 0.80.
For fans installed on the gearbox shaft, use fv = 1.00.
Fan dimensions. When the fan is mounted on the motor flange, the dimensions remain unchanged.
For gearboxes with fans and variable speed, consult WEG-CESTARI.
PTG valid for horizontal operating positions M1; for other operating positions, consult WEG-CESTARI.

4.1 ADMISSIBLE PEAK TORQUE ON THE GEAR

■ For loads without reversal: Mk2adm = 2.00 x M2 / Ff.

■ For loads with reversal: Mk2adm = 1.43 × M2 / Ff.

■ M2 = allowable torque on the gearbox output shaft.

Maximum peak torque MK2max is the drive torque T2 multiplied by the starting factor Fstart.

Mk2max = T2 × Fstart.

Mk2max must be less than the allowable value Mk2adm.

Mk2adm > Mk2max.

Peak Factor Ff					
Hourly Peak Load Frequency, sh					
Minimum 1 Maximum 5	Minimum 6 Maximum 20	Minimum 21 Maximum 40	Minimum 41 Maximum 80	Minimum 81 Maximum 160	>160
1.00	1.20	1.30	1.50	1.75	2.00

(*) The gearbox may only be overloaded for short periods of time.
(*) Peak loads must not last longer than 10 seconds.

Start-up Factor Fstart as a Function of Start-up Type	
Start-up Type	**Fstart**
Direct	3.00
Soft-starter	2.0
Variable-frequency drive (1)	1.5 to 2.0
Start: star/delta	1.30
Hydrodynamic coupling without a delay chamber	2.00
Hydrodynamic coupling with delay chamber	1.60

Note: (1) Depending on the settings.

Note: for gearboxes with anti-reverse protection and a peak frequency above 4, consult WEG-CESTARI.

4.2 CALCULATION OF ADDITIONAL SYSTEM POWER (FOR PT < PA)

SKID Selection

Pad = fL × [Pa – (PT / 2)] × (1 – η).

Pad = additional power required for SKID selection.

fL = safety factor: 1.10 to 1.20.

Reference values for efficiency:

Two parallel stages η = 97.0 %.

Three parallel stages η = 95.6 %.

Four parallel stages η = 94.1 %.

Two right angle stages η = 96.6 %.

Three right angle stages η = 95.0 %.

Four right angle stages η = 93.4 %.

Water

Qw = water flow rate [dm³/min] as specified in the SKID table.

Maximum temperature 30 °C.

Maximum water pressure: 6 bar.

Eight system sizes (SKIDs):

		1	2	3	4	5	6	7	8
Heat Exchange, kW		4.0	5.8	7.5	10.0	14.3	24.7	35.4	54.8
L/min. Oil Flow Rate (2)	**Qo**	14.0	18.0	18.0	28.0	35.0	56.0	70.0	88.0
Pump Drive Power, cv (1)	**P**	1.50	1.50	1.50	2.00	2.00	4.00	5.00	6.00
Water Flow Rate, L/min	**Qw**	45.0	45.0	70.0	70.0	110.0	160.0	230.0	230.0
Water Connection Threads		3/4" BSP	3/4" BSP	1" BSP	1" BSP	1.1/2" BSP	1.1/2" BSP	2" BSP	2" BSP

Note: (1) Pump driven by a 4-pole IEC electric motor, 60 Hz, 4 voltages; for other motors, consult WEG-CESTARI.
(2) The oil volume in the gearbox must be greater than the oil flow rate.
Hz available upon request.

Standard:

■ Shell-and-tube water-to-oil heat exchanger. For air-to-oil heat exchangers (radiators), consult WEG-CESTARI.

■ Lubrication pump driven by an electric motor with flange and coupling.

■ Single-stage filter with visual indicator.

■ Pressure switch set to 0.8 bar.

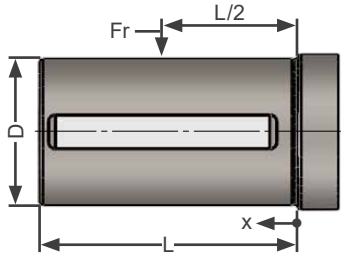
■ Visual pressure gauge, 0 to 20 bar.

4.3 ALLOWABLE RADIAL AND AXIAL FORCES

When power is transmitted via a flexible coupling, no radial and/or axial forces will act on the gearbox shaft.

However, if power is transmitted via components mounted on the gearbox shaft, radial and/or axial forces will be present. The table below lists the allowable radial forces on the gearbox output shaft (Fr).

Axial forces up to 25 % of the permissible radial forces can be absorbed simultaneously with the radial forces. The radial force values listed in the table refer to a load applied at the center of the shaft length "L". When the application distance (x) differs from L/2, a recalculation must be performed according to the formulas and table below:



Determination of the allowable radial force at point x: F(x)

a) F1 (x) based on service life of the bearing:

$$F1\,(x) = \frac{k}{m + x} \cdot Fr\ [N]$$

b) F2 (x) based on maximum shaft deflection:

$$F2\,(x) = \frac{1000 \cdot n}{p + x}\ [N]$$

Where:
x = distance from the end of the shaft to the center of the force [mm].
Fr = radial force acting at the midpoint of the shaft tip length L/2 [N].
To determine F (x), always calculate F1(x) and F2 (x) and choose the smaller value to represent F(x).

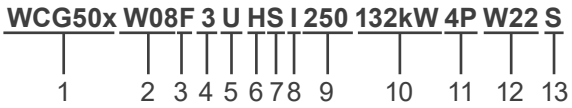
(Fr) Radial Force on Output Shaft [kN]								
Rotation	20		70		100		125	
Position	5	6	5	6	5	6	5	6
W01	53	45	34	26	30	22	28	19
W02	53	45	34	26	30	22	28	19
W03	74	62	47	35	41	29	38	25
W04	75	62	48	35	42	29	38	25
W05	73	73	55	40	47	33	43	28
W06	88	87	64	49	55	41	50	36
W07	130	130	99	78	86	65	79	58
W08	142	142	120	103	105	88	96	79
W09	165	165	140	111	122	93	112	83
W10	162	162	134	102	117	84	106	73
W11	167	167	167	137	153	115	140	102
W12	188	188	168	131	146	109	133	96
W13	247	247	205	160	178	133	163	117
W14	270	270	250	205	219	174	201	156
W15	265	265	245	190	213	157	194	139
W16	264	264	264	250	267	211	245	189

Recalculation Factors					
k	m	n	p	d	L
177	92	5408	84	80	170
177	92	8084	87	90	170
215	110	9400	83	100	210
215	110	12096	87	110	210
256	151	14527	94	120	210
260	135	19272	94	130	250
310	185	29380	101	140	250
302	152	36210	105	160	300
346	196	44385	119	170	300
346	196	43578	119	170	300
384	234	45090	120	180	300
384	209	55460	120	190	350
432	257	76817	136	210	350
420	215	93690	142	230	410
480	275	96725	160	230	410
470	265	96360	160	240	410

Conditions apply to the radial loads in the table.

- Service factor greater than or equal to 1.25.
- Unfavorable load application angle.
- Solid single-end output shaft.
- Gear position 5 or 6.

5 PRODUCT DESIGNATION



1 Gearbox Platform
WCG50x = Industrial Ex h Series
2 Sizes
W01 | W02 | W03 | W04 | W05 | W06 | W07 | W08 W09 | W10 | W11 | W12 | W13 | W14 | W15 | W16
3 Shaft Arrangement
F = Parallel shafts K = Right angle shafts T = Upper right angle shafts
4 Number of Stages
2 = 2 stage gearbox 3 = 3 stage gearbox 4 = 4 stage gearbox
5 Housing Design
U = Universal housing
6 Mounting
H = Housing F = B5 flange C = B14 flange
7 Output Shaft
H = Hollow S = Solid B = Solid on both sides (A+B) D = Shrink Disc
8 Input Type
U = Solid shaft D = Solid shaft on both sides (A+B) I = Motor adapter with FF flange F = Solid shaft + FF flange on opposite side N = Motor adapter with NEMA flange T = Base for motors with feet
9 Motor Housing
IEC 132 | 160 | 180 | 200 | 225 | 250 | 280 | 315 | 355 NEMA 182 | 213 | 254 | 284 | 324 | 364 | 404 | 444 | 445 | 447 | 586
10 Motor Power
9.2 kW | 11 kW | 15 kW | 18.5 kW | 22 kW | 30 kW | 37 kW | 45 kW | 55 kW | 75 kW | 90 kW | 110 kW | 132 kW | 150 kW | 185 kW | 200 kW | 220 kW | 260 kW
11 Motor Polarity
4P = 4 poles 6P = 6 poles 8P = 8 poles
12 Motor Mounting
W22 | W51
13 Specialty Indicator
(blank) = Standard | S = Special

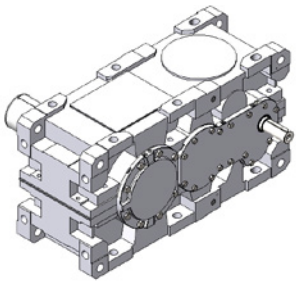
6 Mounting

H = Housing.

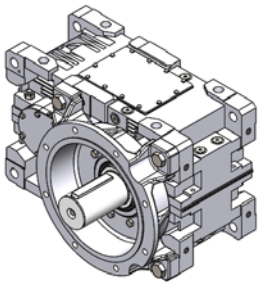
F = B5 Flange.

C = B14 Flange.

For gear units configured with an "output flange" mounting and "motor flange" input type, these cannot be configured on the same side for parallel-shaft gear units.

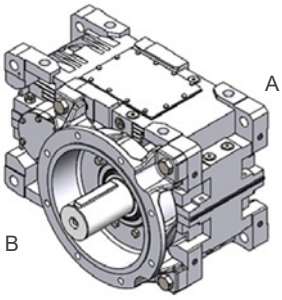


Feet / housing



Output Flange

■ For the output flange, the mounting side must be specified: side A or side B



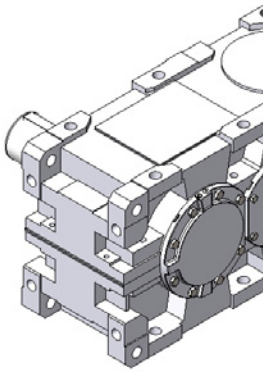
7 Output shaft

H = Hollow.

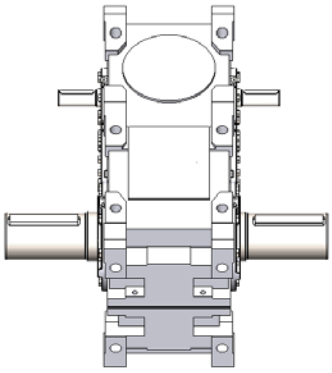
S = Solid.

B = Solid on both sides (A+B).

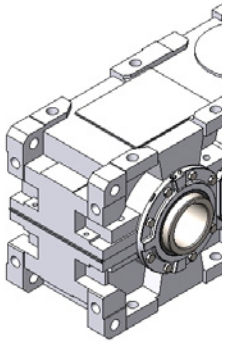
D = Shrink disc.



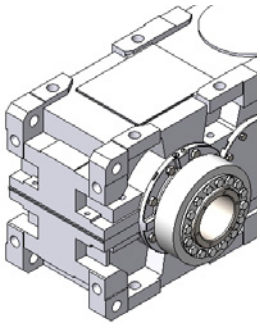
Solid single-end shaft



Solid double-ended shaft



Hollow parallel shaft Keyway



Hollow shaft with shrink disc

Note: For hollow shafts, select the input side of the equipment shaft.

8 Input Type

U = Solid shaft.

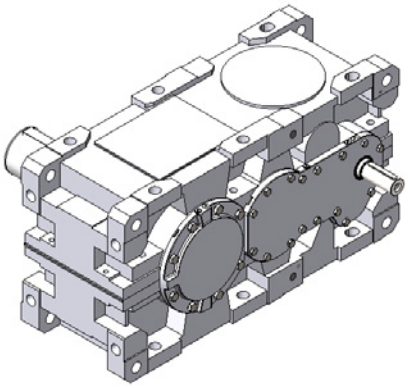
D = Solid shaft on both sides (A+B).

I = Motor adapter with FF flange.

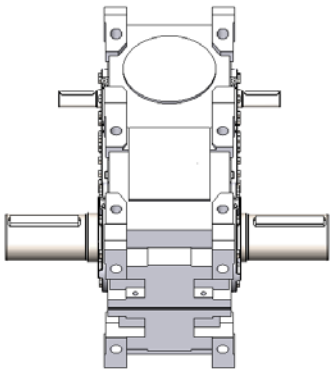
F = Solid shaft + FF flange on the opposite side.

N = Motor adapter with NEMA flange.

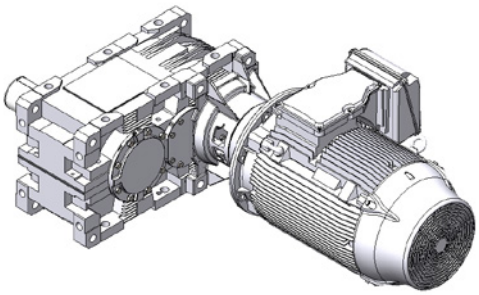
T = Base for motors with feet.



Solid shaft, single-end



Solid shaft, double-ended

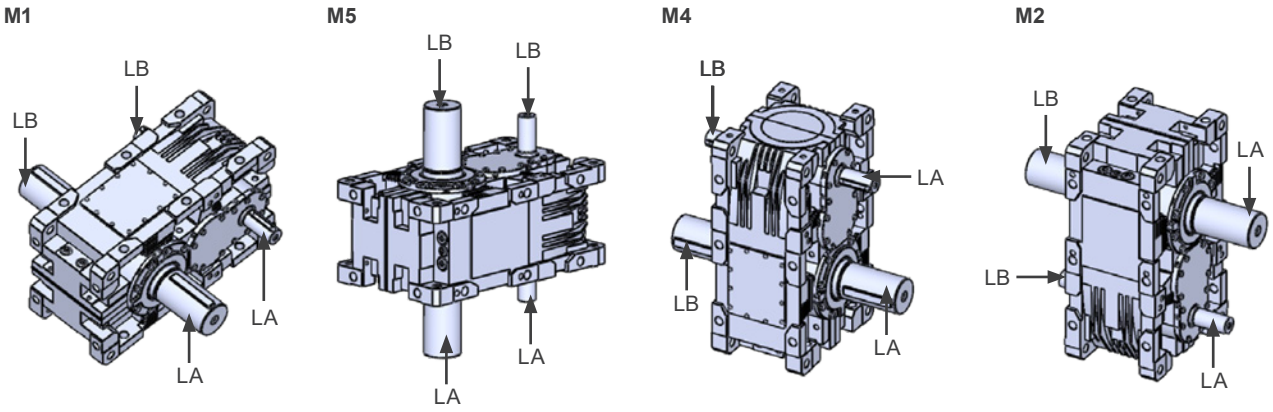


IEC motor flange

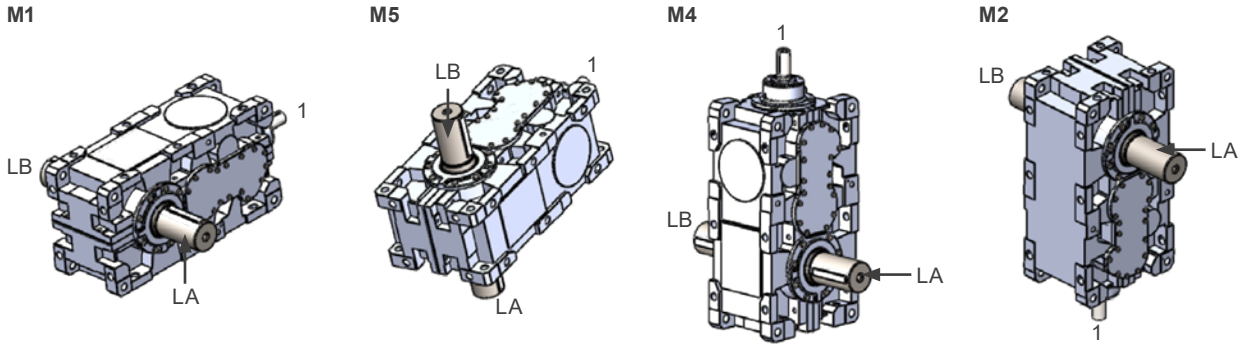
Notes: For parallel shafts and motor flanges, specify the flange mounting side (1 or 2). For right angle shafts, only single-end solid shafts or shafts with an IEC motor flange are available.

6 MOUNTING POSITIONS

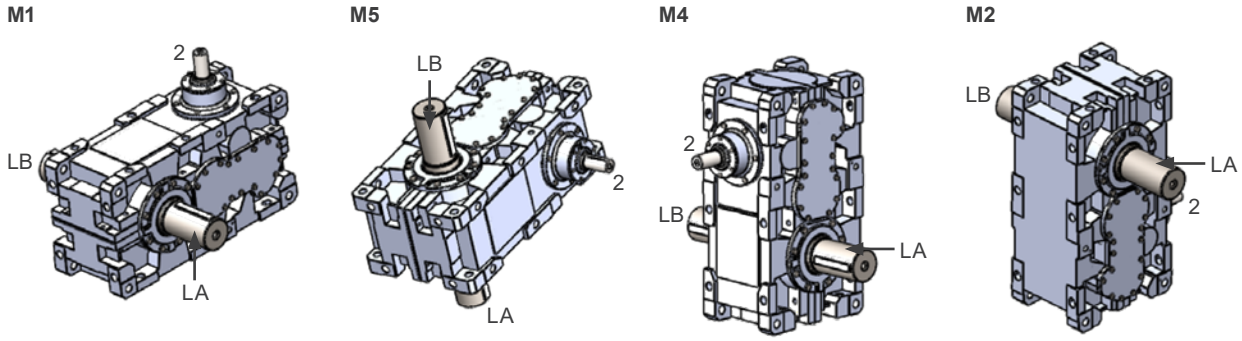
Parallel Shafts



Right Angle Shafts K



Right Angle Shafts T

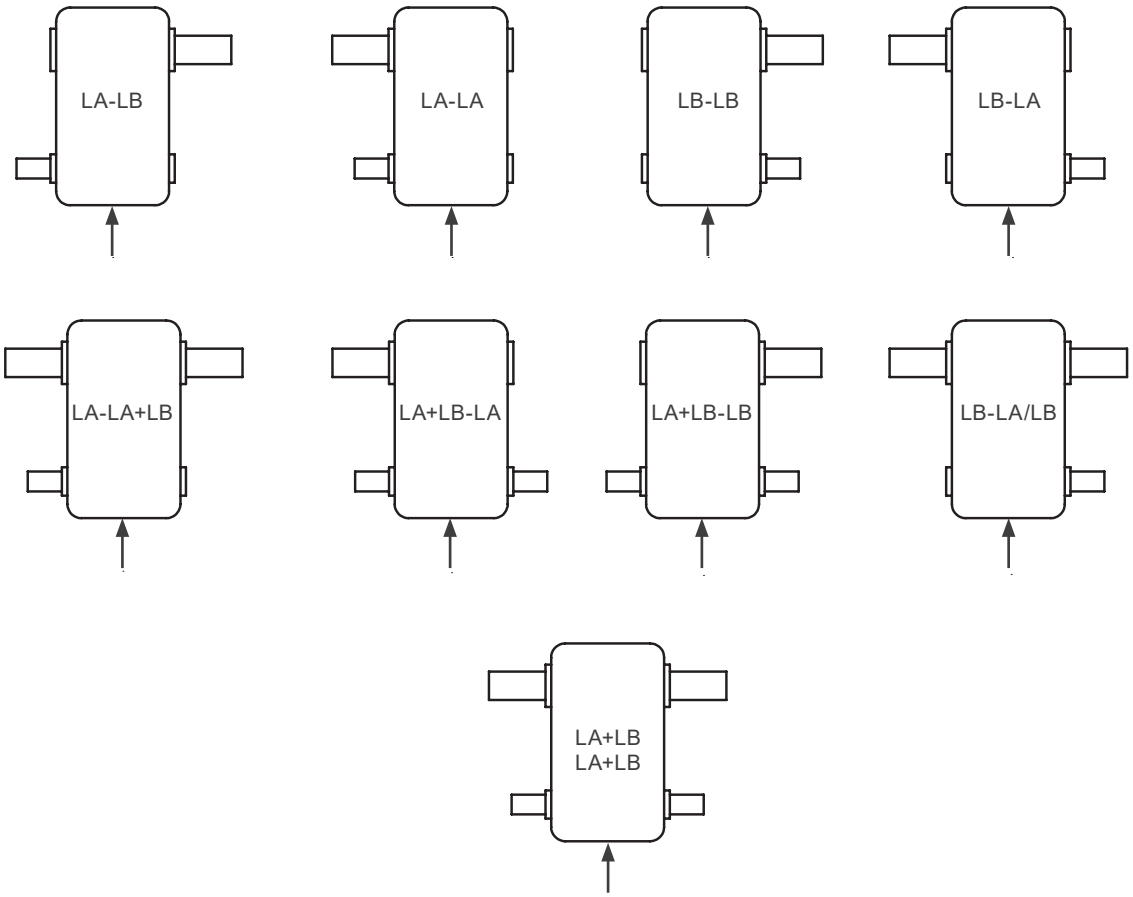


- (a) When the motor is mounted vertically (shaft down), it is recommended to use a protective cover for the motor.
- (b) For vertical mounting positions M2, M4, and M5, the use of a lubrication system should be evaluated.
- (c) For mounting positions M4, M5, and M6, the use of an expansion chamber should be evaluated.
- Mounting position M1 is compatible with mounting surfaces S1 and S3.
- Mounting position M2 is suitable for mounting surface S2.
- Mounting position M4 is suitable for mounting surface S4.
- Mounting position M5 is compatible with mounting surfaces S5 and S6.
- For other combinations of mounting position and mounting surface, consult WEG-CESTARI.

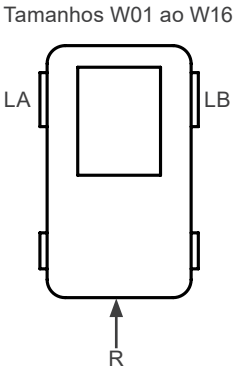
The gear unit housings of the WCG50 Ex h Series are symmetrical, allowing for flexible (flip) mounting that is, from S1 to S3 and from S3 to S1 (mounting surfaces). For this, consult WEG-CESTARI to ensure that options and accessories are adapted to the new position.

6.1 POSITION OF INPUT AND OUTPUT SHAFTS

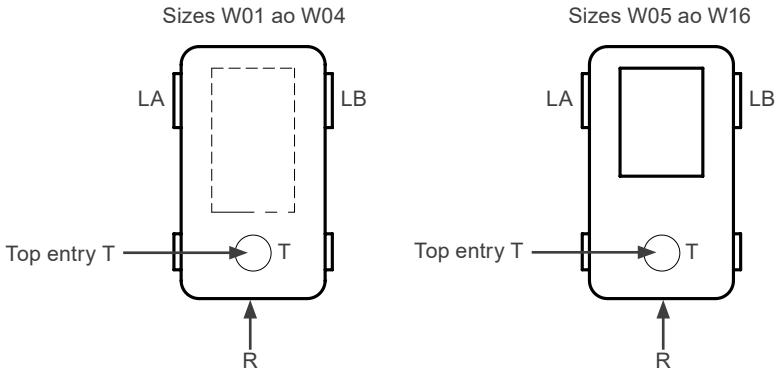
Parallel Shafts



Right Angle Shafts K [2]



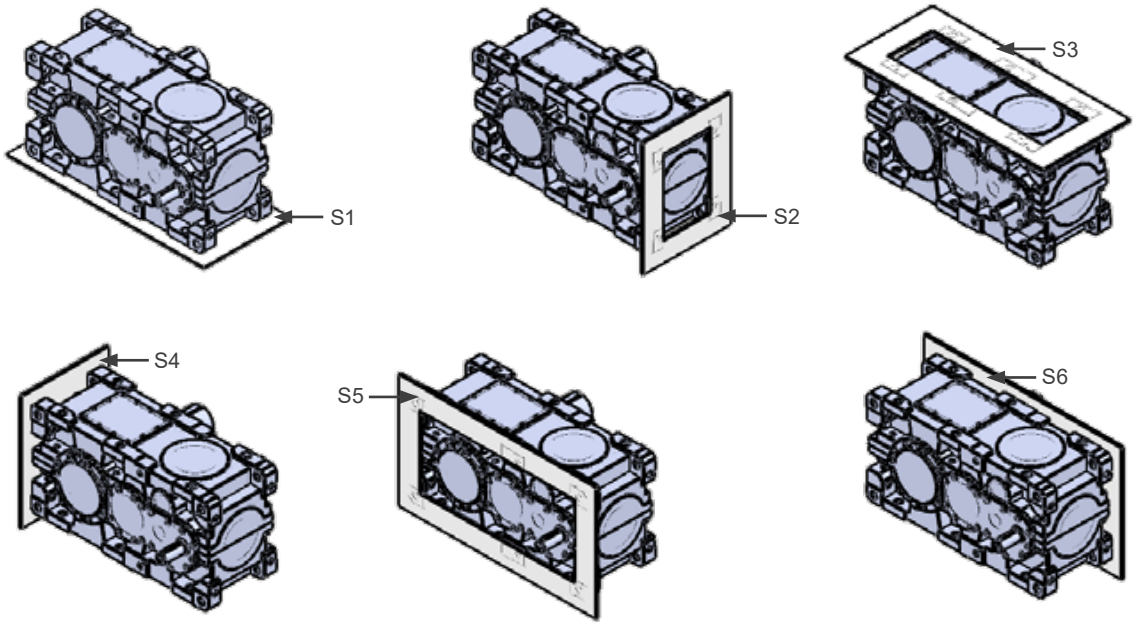
Right Angle Shafts T [3]



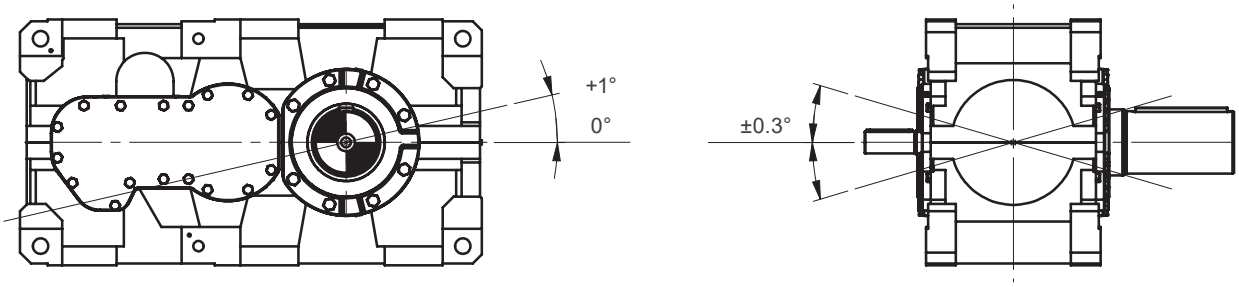
Notes: (1) For sizes W01 through W04, the inspection cover is a mounting cover.
(2) Inspection cover [1] on the top.
(3) Right angle T-shafts, sizes W01 through W04: the inspection cover [1] will be located at the bottom (mounting surface S1).

6.2 MOUNTING SURFACE

The mounting surface applies only when the selected mounting type is feet/housing.



Industrial gearboxes must be installed on a level foundation (0.01 mm/100 mm). When the gearbox is specified to operate on an inclined plane, do not install it at an angle of inclination other than the one specified. For standard gearboxes, the installation angle must be within the limits shown in the figure below.



For additional information, refer to the product's installation and maintenance manual.

7 SCOPE OF SUPPLY

The WCG50 Ex h series gearboxes are supplied, as standard, without lubricating oil. The interior of the housing is coated with an oil-resistant paint. The shaft ends are protected against corrosion. Below is a table showing the available paint schemes for customer selection. For other types of paint schemes, please consult WEG-CESTARI.

Paint Scheme	Recommended Use	ISO 12944
207A / 203A	For normal to slightly severe environments, both sheltered and unsheltered, for industrial use, with low relative humidity, normal temperature variations, and the presence of SO2. Suitable for conveyors and general cargo handling, elevators, the furniture industry, the sugar and ethanol industry, pumps, and the machinery industry. **(Not recommended for direct exposure to acid vapors, alkalis, and solvents)**	C3
205P	Equipment exposed to abrasive and oxidizing agents (salinity). Suitable for the pulp and paper industry, mining (conveyors), chemical industry (cooling towers), processing machinery (agribusiness), petrochemicals, sugar and ethanol, transmission towers, and transformers	C4
211P	For industrial environments, both sheltered and unsheltered, with high levels of corrosive agents such as SO_2 (sulfur dioxide) and Cl^- (chloride), which may contain high humidity. Operating temperature range: -60 °C to 120 °C. For use in refineries as well as petrochemical industries	C5
212P	For industrial and marine environments, dry or humid, sheltered or unsheltered, onshore or offshore, with high salinity, with or without sulfur-derived gases. Operating temperature range: -60 °C to 120 °C. Suitable for use in the pulp and paper, mining, chemical, and petrochemical industries	C5 and CX

The WCG50 Ex series gearboxs are supplied in Beige RAL 1009 and Blue RAL 5009, with paint scheme 207A. For supplies in other colors, consult WEG-CESTARI.

Options

- Backstop.
- Flange for IEC and NEMA motors.
- Labyrinth seal (TACONITE).
- Output flange.
- Fan.
- Expansion chamber.

7.1 LUBRICATION AND LUBRICANT QUANTITY

Proper lubrication is essential for the performance and service life of the gearbox. WCG50 Ex h gearboxs are oil-bath lubricated and equipped with a dipstick-type oil level indicator. The correct oil level is at the midpoint between the minimum and maximum marks on the dipstick, with the gearbox at a standstill and in the specified operating position. The recommended lubricant is extreme-pressure mineral oil in accordance with DIN 51517-3 CLP. For gearboxes operating at a minimum input shaft speed of 500 RPM and a maximum of 1,800 RPM, and at an ambient temperature ranging from a minimum of 10 °C to a maximum of 40 °C, we recommend oil with an ISO VG 320 viscosity. For temperatures outside the range of 10 °C to 40 °C, consult WEG-CESTARI. The table below lists some recommended oil types and their respective manufacturers. For speeds and temperatures not listed in this catalog, consult WEG-CESTARI.

Manufacturer	ISO VG 320 Viscosity		
	Mineral	PAO Synthetic	Synthetic PG
KLUBER	Kluberoil GEM1-320N	Klubersynth EG4-320	Klubersynth GH6-320
SHELL	OMALA S2 G 320	Omala S4 GX 320	Omala S4 WE 320
FUCHS	GEARMASTER CLP 320	GEARMASTER SYN CLP-HC 320	GEARMASTER PGP CLP-PG 320
MOBIL	MOBILGEAR 600 XP 320	MOBILGEAR SHC 632	-

7.1.1 Oil Volume

- The values in the following table are for reference only; exact values may vary depending on the number of gears and their diameters.
- The exact oil volume should be determined after checking the level with the dipstick or sight glass (when available).
- For oil-pressure lubrication, the level must be checked after operation due to oil retention by the system.

Operating Position M1

WCG50	Oil Volume Table - Mounting Position M1										
	Oil Volume [L]										
ST	Lubrication Types			ST	Lubrication Types			ST	Lubrication Types		
2	LB_1	LP_2	-	3	LB_1	LP_2	-	4	LB_1	LP_2	-
W01F	11	11	-	W01F	13	13	-	W01F	-	-	-
W02F	11	11	-	W02F	13	13	-	W02F	-	-	-
W03F	17	17	-	W03F	20	20	-	W03F	20	20	-
W04F	18	18	-	W04F	22	22	-	W04F	21	21	-
W05F	23	23	-	W05F	33	33	-	W05F	32	32	-
W06F	24	24	-	W06F	35	35	-	W06F	34	34	-
W07F	43	43	-	W07F	63	63	-	W07F	61	61	-
W08F	41	41	-	W08F	60	60	-	W08F	58	58	-
W09F	52	52	-	W09F	74	74	-	W09F	72	72	-
W10F	52	52	-	W10F	74	74	-	W10F	72	72	-
W11F	69	69	-	W11F	102	102	-	W11F	98	98	-
W12F	68	68	-	W12F	101	101	-	W12F	97	97	-
W13F	100	100	-	W13F	150	150	-	W13F	145	145	-
W14F	97	97	-	W14F	146	146	-	W14F	140	140	-
W15F	130	130	-	W15F	187	187	-	W15F	180	180	-
W16F	124	124	-	W16F	182	182	-	W16F	175	175	-
ST	Lubrication Types			ST	Lubrication Types			ST	Lubrication Types		
2	LB_1	LP_2	-	3	LB_1	LP_2	-	4	LB_1	LP_2	-
W01K	11	11	-	W01K	12	12	-	W01K	-	-	-
W02K	11	11	-	W02K	13	13	-	W02K	-	-	-
W03K	16	16	-	W03K	20	20	-	W03K	20	20	-
W04K	16	16	-	W04K	22	22	-	W04K	21	21	-
W05K	23	23	-	W05K	33	33	-	W05K	33	33	-
W06K	24	24	-	W06K	35	35	-	W06K	35	35	-
W07K	43	43	-	W07K	62	62	-	W07K	62	62	-
W08K	41	41	-	W08K	59	59	-	W08K	60	60	-
W09K	53	53	-	W09K	74	74	-	W09K	74	74	-
W10K	52	52	-	W10K	73	73	-	W10K	73	73	-
W11K	69	69	-	W11K	102	102	-	W11K	102	102	-
W12K	69	69	-	W12K	101	101	-	W12K	101	101	-
W13K	100	100	-	W13K	150	150	-	W13K	150	150	-
W14K	97	97	-	W14K	145	145	-	W14K	145	145	-
W15K	130	130	-	W15K	186	186	-	W15K	186	186	-
W16K	123	123	-	W16K	180	180	-	W16K	181	181	-

WCG50	Oil Volume Table - Mounting Position M1							
	Oil Volume [L]							
	ST	Lubrication Types			ST	Lubrication Types		
	3	LB_1	LP_2	LI_3	4	LB_1	LP_2	LI_3
	W01T	13	13	27	W01T	-	-	-
	W02T	13	13	29	W02T	-	-	-
	W03T	21	21	45	W03T	21	21	45
	W04T	22	22	47	W04T	21	21	47
	W05T	33	33	69	W05T	44	33	69
	W06T	35	35	73	W06T	46	34	73
	W07T	63	63	126	W07T	82	62	126
	W08T	60	60	122	W08T	78	60	122
	W09T	75	75	154	W09T	102	74	155
	W10T	74	74	152	W10T	98	73	152
	W11T	102	102	213	W11T	142	102	213
	W12T	102	102	210	W12T	141	101	211
	W13T	151	151	316	W13T	205	150	316
	W14T	146	146	306	W14T	201	147	309
	W15T	188	188	388	W15T	251	187	390
	W16T	182	182	377	W16T	244	181	379

Legend:
ST: number of stages.
LB_1: oil bath lubrication (spray).
LP_2: oil pressure lubrication.
LI_3: oil immersion lubrication.

Operating Position M2

- The values in the following table are for reference only; exact values may vary depending on the number of gears and their diameters.
- The exact oil volume should be determined after checking the level with the dipstick or sight glass (when available).
- For oil pressure lubrication, the level must be checked after operation due to oil retention by the system.

WCG50	Oil Volume Table - Mounting Position M2										
	Oil Volume [L]										
ST	Lubrication Types			ST	Lubrication Types			ST	Lubrication Types		
2	-	-	LI_3	3	-	-	LI_3	4	-	-	LI_3
W01F	-	-	15	W01F	-	-	18	W01F	-	-	-
W02F	-	-	16	W02F	-	-	19	W02F	-	-	-
W03F	-	-	25	W03F	-	-	31	W03F	-	-	31
W04F	-	-	26	W04F	-	-	33	W04F	-	-	32
W05F	-	-	37	W05F	-	-	51	W05F	-	-	50
W06F	-	-	38	W06F	-	-	53	W06F	-	-	52
W07F	-	-	62	W07F	-	-	86	W07F	-	-	85
W08F	-	-	65	W08F	-	-	90	W08F	-	-	89
W09F	-	-	78	W09F	-	-	104	W09F	-	-	105
W10F	-	-	80	W10F	-	-	107	W10F	-	-	105
W11F	-	-	105	W11F	-	-	144	W11F	-	-	141
W12F	-	-	108	W12F	-	-	149	W12F	-	-	145
W13F	-	-	152	W13F	-	-	213	W13F	-	-	207
W14F	-	-	159	W14F	-	-	218	W14F	-	-	212
W15F	-	-	201	W15F	-	-	275	W15F	-	-	269
W16F	-	-	207	W16F	-	-	279	W16F	-	-	273

WCG50	Oil Volume Table - Mounting Position M2									
	Oil Volume [L]									
ST	Lubrication Types			ST	Lubrication Types			ST	Lubrication Types	
2	-	-	LI_3	3	-	-	LI_3	4	-	-	LI_3
W01K	-	-	17	W01K	-	-	20	W01K	-	-	-
W02K	-	-	18	W02K	-	-	18	W02K	-	-	-
W03K	-	-	26	W03K	-	-	31	W03K	-	-	31
W04K	-	-	26	W04K	-	-	34	W04K	-	-	34
W05K	-	-	38	W05K	-	-	50	W05K	-	-	50
W06K	-	-	39	W06K	-	-	53	W06K	-	-	53
W07K	-	-	62	W07K	-	-	86	W07K	-	-	86
W08K	-	-	65	W08K	-	-	89	W08K	-	-	89
W09K	-	-	79	W09K	-	-	104	W09K	-	-	104
W10K	-	-	82	W10K	-	-	107	W10K	-	-	107
W11K	-	-	110	W11K	-	-	144	W11K	-	-	144
W12K	-	-	113	W12K	-	-	149	W12K	-	-	149
W13K	-	-	157	W13K	-	-	214	W13K	-	-	213
W14K	-	-	164	W14K	-	-	219	W14K	-	-	218
W15K	-	-	207	W15K	-	-	273	W15K	-	-	274
W16K	-	-	210	W16K	-	-	277	W16K	-	-	278

ST	Lubrication Types			ST	Lubrication Types		
3	-	-	LI_3	4	-	-	LI_3
W01T	-	-	18	W01T	-	-	-
W02T	-	-	19	W02T	-	-	-
W03T	-	-	32	W03T	-	-	32
W04T	-	-	33	W04T	-	-	33
W05T	-	-	50	W05T	-	-	50
W06T	-	-	53	W06T	-	-	52
W07T	-	-	85	W07T	-	-	85
W08T	-	-	89	W08T	-	-	89
W09T	-	-	103	W09T	-	-	104
W10T	-	-	106	W10T	-	-	107
W11T	-	-	143	W11T	-	-	143
W12T	-	-	148	W12T	-	-	148
W13T	-	-	211	W13T	-	-	212
W14T	-	-	218	W14T	-	-	220
W15T	-	-	271	W15T	-	-	273
W16T	-	-	275	W16T	-	-	277

Legend:
ST: number of stages.
LB_1: oil bath lubrication (spray).
LP_2: oil pressure lubrication.
LI_3: oil immersion lubrication.

Operating Position M3

- The values in the following table are for reference only; exact values may vary depending on the number of gears and their diameters.
- The exact oil volume should be determined after checking the level with the dipstick or sight glass (when available).
- For oil pressure lubrication, the level must be checked after operation due to oil retention by the system.

WCG50	Oil Volume Table - Mounting Position M3										
	Oil Volume [L]										
ST	Lubrication Types			ST	Lubrication Types			ST	Lubrication Types		
2	LB_1	-	-	3	LB_1	-	-	4	LB_1	-	-
W01F	11	-	-	W01F	13	-	-	W01F	-	-	-
W02F	11	-	-	W02F	13	-	-	W02F	-	-	-
W03F	17	-	-	W03F	20	-	-	W03F	23	-	-
W04F	18	-	-	W04F	22	-	-	W04F	25	-	-
W05F	23	-	-	W05F	31	-	-	W05F	40	-	-
W06F	24	-	-	W06F	33	-	-	W06F	42	-	-
W07F	43	-	-	W07F	57	-	-	W07F	70	-	-
W08F	41	-	-	W08F	54	-	-	W08F	68	-	-
W09F	52	-	-	W09F	68	-	-	W09F	88	-	-
W10F	52	-	-	W10F	67	-	-	W10F	87	-	-
W11F	69	-	-	W11F	96	-	-	W11F	123	-	-
W12F	68	-	-	W12F	95	-	-	W12F	122	-	-
W13F	100	-	-	W13F	142	-	-	W13F	182	-	-
W14F	97	-	-	W14F	137	-	-	W14F	175	-	-
W15F	130	-	-	W15F	178	-	-	W15F	224	-	-
W16F	124	-	-	W16F	173	-	-	W16F	218	-	-
ST	Lubrication Types			ST	Lubrication Types			ST	Lubrication Types		
2	LB_1	-	-	3	LB_1	-	-	4	LB_1	-	-
W01K	11	-	-	W01K	12	-	-	W01K	-	-	-
W02K	11	-	-	W02K	13	-	-	W02K	-	-	-
W03K	16	-	-	W03K	20	-	-	W03K	20	-	-
W04K	16	-	-	W04K	22	-	-	W04K	21	-	-
W05K	23	-	-	W05K	31	-	-	W05K	31	-	-
W06K	24	-	-	W06K	32	-	-	W06K	32	-	-
W07K	43	-	-	W07K	56	-	-	W07K	56	-	-
W08K	41	-	-	W08K	54	-	-	W08K	54	-	-
W09K	53	-	-	W09K	68	-	-	W09K	68	-	-
W10K	52	-	-	W10K	66	-	-	W10K	66	-	-
W11K	69	-	-	W11K	96	-	-	W11K	96	-	-
W12K	69	-	-	W12K	94	-	-	W12K	94	-	-
W13K	100	-	-	W13K	142	-	-	W13K	142	-	-
W14K	97	-	-	W14K	137	-	-	W14K	137	-	-
W15K	130	-	-	W15K	176	-	-	W15K	177	-	-
W16K	123	-	-	W16K	171	-	-	W16K	172	-	-

WCG50	Oil Volume Table - Mounting Position M3							
	Oil Volume [L]							
	ST	Lubrication Types			ST	Lubrication Types		
	3	LB_1	-	-	4	LB_1	-	-
	W01T	12	-	-	W01T	-	-	-
	W02T	12	-	-	W02T	-	-	-
	W03T	20	-	-	W03T	20	-	-
	W04T	21	-	-	W04T	20	-	-
	W05T	29	-	-	W05T	29	-	-
	W06T	31	-	-	W06T	31	-	-
	W07T	54	-	-	W07T	54	-	-
	W08T	51	-	-	W08T	52	-	-
	W09T	65	-	-	W09T	67	-	-
	W10T	63	-	-	W10T	65	-	-
	W11T	92	-	-	W11T	93	-	-
	W12T	91	-	-	W12T	92	-	-
	W13T	136	-	-	W13T	138	-	-
	W14T	132	-	-	W14T	135	-	-
	W15T	169	-	-	W15T	172	-	-
	W16T	164	-	-	W16T	168	-	-

Legend:
ST: number of stages.
LB_1: oil bath lubrication (spray).
LP_2: oil pressure lubrication.
LI_3: oil immersion lubrication.

Operating Position M4

- The values in the following table are for reference only; exact values may vary depending on the number of gears and their diameters.
- The exact oil volume should be determined after checking the level with the dipstick or sight glass (when available).
- For oil pressure lubrication, the level must be checked after operation due to oil retention by the system.

WCG50	Oil Volume Table - Mounting Position M4									
	Oil Volume [L]									
ST	Lubrication Types			ST	Lubrication Types			ST	Lubrication Types		
2	-	LP_2	LI_3	3	-	LP_2	LI_3	4	-	LP_2	LI_3
W01F	-	12	19	W01F	-	12	24	W01F	-	-	-
W02F	-	14	21	W02F	-	14	25	W02F	-	-	-
W03F	-	18	29	W03F	-	19	38	W03F	-	19	37
W04F	-	20	31	W04F	-	21	40	W04F	-	20	40
W05F	-	25	41	W05F	-	26	58	W05F	-	26	57
W06F	-	28	44	W06F	-	30	62	W06F	-	30	61
W07F	-	52	83	W07F	-	56	112	W07F	-	56	110
W08F	-	49	79	W08F	-	53	107	W08F	-	53	106
W09F	-	61	96	W09F	-	64	135	W09F	-	64	132
W10F	-	60	95	W10F	-	61	133	W10F	-	61	131
W11F	-	83	131	W11F	-	86	186	W11F	-	86	184
W12F	-	79	129	W12F	-	82	184	W12F	-	82	181
W13F	-	126	192	W13F	-	130	277	W13F	-	130	273
W14F	-	113	184	W14F	-	116	266	W14F	-	116	262
W15F	-	151	242	W15F	-	151	341	W15F	-	151	336
W16F	-	136	228	W16F	-	137	330	W16F	-	137	325

WCG50	Oil Volume Table - Mounting Position M4									
	Oil Volume [L]									
ST	Lubrication Types			ST	Lubrication Types			ST	Lubrication Types		
2	-	LP_2	LI_3	3	-	LP_2	LI_3	4	-	LP_2	LI_3
W01K	-	12	24	W01K	-	12	27	W01K	-	-	-
W02K	-	14	26	W02K	-	14	29	W02K	-	-	-
W03K	-	18	38	W03K	-	19	45	W03K	-	19	45
W04K	-	20	40	W04K	-	21	48	W04K	-	20	47
W05K	-	25	55	W05K	-	26	69	W05K	-	26	69
W06K	-	28	58	W06K	-	30	73	W06K	-	30	73
W07K	-	52	102	W07K	-	56	127	W07K	-	56	127
W08K	-	49	97	W08K	-	53	123	W08K	-	53	123
W09K	-	62	127	W09K	-	64	155	W09K	-	64	155
W10K	-	61	126	W10K	-	61	153	W10K	-	61	153
W11K	-	83	176	W11K	-	86	214	W11K	-	86	214
W12K	-	80	173	W12K	-	82	212	W12K	-	82	211
W13K	-	128	258	W13K	-	130	319	W13K	-	130	318
W14K	-	114	250	W14K	-	116	308	W14K	-	116	307
W15K	-	152	322	W15K	-	151	390	W15K	-	151	391
W16K	-	137	309	W16K	-	137	380	W16K	-	137	380

ST	Lubrication Types			ST	Lubrication Types		
3	-	LP_2	LI_3	4	-	LP_2	LI_3
W01T	-	12	27	W01T	-	-	-
W02T	-	14	29	W02T	-	-	-
W03T	-	19	45	W03T	-	19	45
W04T	-	21	47	W04T	-	20	47
W05T	-	26	45	W05T	-	26	46
W06T	-	30	50	W06T	-	30	50
W07T	-	56	86	W07T	-	56	86
W08T	-	53	82	W08T	-	53	82
W09T	-	64	101	W09T	-	64	101
W10T	-	61	98	W10T	-	61	98
W11T	-	86	136	W11T	-	86	136
W12T	-	82	133	W12T	-	82	133
W13T	-	130	198	W13T	-	130	209
W14T	-	116	188	W14T	-	116	203
W15T	-	151	245	W15T	-	151	262
W16T	-	137	236	W16T	-	137	253

Legend:
ST: number of stages.
LB_1: oil bath lubrication (spray).
LP_2: oil pressure lubrication.
LI_3: oil immersion lubrication.

Operating Position M5-M6

- The values in the following table are for reference only; exact values may vary depending on the number of gears and their diameters.
- The exact oil volume should be determined after checking the level with the dipstick or sight glass (when available).
- For oil pressure lubrication, the level must be checked after operation due to oil retention by the system.

WCG50	Oil Volume Table - Mounting Positions M5 - M6									
	Oil Volume [L]									
ST	Lubrication Types			ST	Lubrication Types			ST	Lubrication Types		
2	-	LP_2	LI_3	3	-	LP_2	LI_3	4	-	LP_2	LI_3
W01F	-	16	24	W01F	-	18	28	W01F	-	-	-
W02F	-	17	26	W02F	-	18	29	W02F	-	-	-
W03F	-	28	38	W03F	-	32	45	W03F	-	32	44
W04F	-	29	40	W04F	-	35	48	W04F	-	33	47
W05F	-	38	55	W05F	-	45	70	W05F	-	44	69
W06F	-	41	58	W06F	-	45	74	W06F	-	45	73
W07F	-	68	102	W07F	-	83	128	W07F	-	82	126
W08F	-	62	98	W08F	-	77	123	W08F	-	76	122
W09F	-	84	126	W09F	-	103	155	W09F	-	101	152
W10F	-	82	124	W10F	-	99	153	W10F	-	97	151
W11F	-	119	171	W11F	-	145	214	W11F	-	142	210
W12F	-	114	168	W12F	-	141	212	W12F	-	138	208
W13F	-	171	253	W13F	-	211	318	W13F	-	205	312
W14F	-	162	245	W14F	-	199	307	W14F	-	196	301
W15F	-	208	315	W15F	-	251	392	W15F	-	247	385
W16F	-	199	306	W16F	-	239	381	W16F	-	234	375
ST	Lubrication Types			ST	Lubrication Types			ST	Lubrication Types		
2	-	LP_2	LI_3	3	-	LP_2	LI_3	4	-	LP_2	LI_3
W01K	-	16	24	W01K	-	19	27	W01K	-	-	-
W02K	-	18	26	W02K	-	20	29	W02K	-	-	-
W03K	-	28	38	W03K	-	33	45	W03K	-	32	45
W04K	-	30	40	W04K	-	35	48	W04K	-	34	47
W05K	-	36	55	W05K	-	44	69	W05K	-	44	69
W06K	-	38	58	W06K	-	45	73	W06K	-	45	73
W07K	-	67	102	W07K	-	82	127	W07K	-	82	127
W08K	-	62	97	W08K	-	77	123	W08K	-	77	123
W09K	-	84	127	W09K	-	103	155	W09K	-	103	155
W10K	-	82	126	W10K	-	98	153	W10K	-	98	153
W11K	-	121	176	W11K	-	145	214	W11K	-	145	214
W12K	-	116	173	W12K	-	140	212	W12K	-	140	211
W13K	-	173	258	W13K	-	210	319	W13K	-	209	318
W14K	-	164	250	W14K	-	199	307	W14K	-	199	307
W15K	-	211	322	W15K	-	248	390	W15K	-	249	391

WCG50	Oil Volume Table - Mounting Positions M5 - M6										
	Oil Volume [L]										
W16K	-	198	309	W16K	-	237	379	W16K	-	237	380
				ST	Lubrication Types			ST	Lubrication Types		
				3	-	LP_2	LI_3	4	-	LP_2	LI_3
				W01T	-	19	27	W01T	-	-	-
				W02T	-	20	29	W02T	-	-	-
				W03T	-	33	45	W03T	-	33	45
				W04T	-	35	47	W04T	-	34	47
				W05T	-	44	69	W05T	-	44	69
				W06T	-	45	73	W06T	-	45	73
				W07T	-	82	127	W07T	-	82	127
				W08T	-	77	123	W08T	-	77	123
				W09T	-	103	155	W09T	-	103	155
				W10T	-	98	153	W10T	-	98	153
				W11T	-	145	214	W11T	-	145	214
				W12T	-	140	212	W12T	-	140	211
				W13T	-	210	319	W13T	-	209	318
				W14T	-	199	307	W14T	-	199	307
				W15T	-	248	390	W15T	-	249	391
				W16T	-	237	379	W16T	-	237	380

Legend:
ST: number of stages.
LB_1: oil bath lubrication (spray).
LP_2: oil pressure lubrication.
LI_3: oil immersion lubrication.

7.2 LUBRICATION AND LUBRICANT QUANTITY

The operating temperature is the temperature of the lubricating oil after a period of temperature stabilization during full-load operation (a period following approximately 3 hours of continuous operation). The minimum ambient temperature for starting up the gearboxes depends on the viscosity and type of lubricating oil. The table below shows the minimum ambient temperature for starting up the gearboxes:

Oil		Minimum Temperature	
Type	Viscosity	Immersion Lubrication	Forced Lubrication
Mineral CLP	ISO VG 320	+7 °C	+14 °C
Synthetic CLP HC (PAO)	ISO VG 320	0 °C	+8 °C

For other temperatures, consult WEG-CESTARI.

For gearboxes operating in environments with temperatures below the recommended minimum, a heater accessory is available; in this case, consult WEG-CESTARI.

The standard seals for the WCG50 Series are made of FKM (Viton) material, with a minimum permissible ambient temperature of -25 °C.

8 SELECTION TABLES

Legend:

PT = thermal power.

PTG = thermal capacity of the gearbox without auxiliary systems (dissipated by the housing).

PTV (1)= thermal capacity of the gearbox with a fan.

iN = nominal gear ratio.

iex = exact gear ratio.

n1 = input speed.

n2 = output speed.

M2 = rated torque.

P1 = rated power.

ST = stages.

W06 - n1 = 1800 rpm											28 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8	7.82	230	24.4	604	168	373	(*)	255	(*)	308	2	
9	8.99	200	26.7	576	157	348	(*)	246	(*)	298		
10	9.71	185	27.6	551	157	348	(*)	268	(*)	309		
11.2	11.16	161	28	487	148	327	(*)	253	132	293		
12.5	12.47	144	28	436	141	312	118	261	130	289		
14	14.34	126	28	380	133	294	111	246	123	273		
16	15.73	114	28	346	133	294	117	260	126	279		
18	18.10	99	28	302	125	277	110	244	119	264		
20	19.53	92	28	280	121	269	112	248	117	260		
22.4	22.47	80	28	244	115	254	105	233	111	246		

Note:
(1) The thermal power ratings listed are for a radial fan operating in both directions of rotation.
(2) The power ratings listed in the selection tables are based on actual efficiency, which approximates the nominal efficiency.

8.1 PARALLEL GEARBOX

W01 P - 1800 rpm

W01 - n1 = 1800 rpm											7.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.18	291	5.0	153	78	135	74	128	76	131	2	(M1) 36 (M5) 36 (M4) 36
7.1	7.15	252	5.8	153	73	127	69	120	71	123		
8.0	7.74	233	6.25	152	74	128	71	123	72	125		
9.0	8.95	201	7.25	153	69	120	67	115	68	117		
10.0	9.86	183	7.5	143	70	121	68	118	69	119		
11.2	11.41	158	7.5	124	66	114	64	111	65	112		
12.5	12.55	143	7.5	113	66	114	65	112	65	113		
14.0	14.52	124	7.5	97	62	107	61	105	61	106		
16.0	15.59	115	7.5	91	60	103	59	102	59	103		
18.0	18.03	100	7.5	78	56	98	56	97	56	97		
20.0	19.38	93	7.5	73	47	82	47	81	47	82	3	(M1) 36 (M5) 36 (M4) 36
22.4	22.42	80	7.5	63	45	78	45	77	45	78		
25.0	24.67	73	7.5	57	45	78	45	77	45	78		
28.0	28.53	63	7.5	50	43	75	43	74	43	74		
31.5	31.13	58	7.5	45	42	73	42	72	42	73		
35.5	36.00	50	7.5	39	40	70	40	69	40	69		
40.0	38.66	47	7.5	37	39	68	39	67	39	67		
45.0	44.72	40	7.5	32	37	65	37	64	37	64		
50.0	49.57	36	7.5	29	37	64	37	63	37	64		
56.0	57.34	31	7.5	25	35	61	35	61	35	61		
63.0	61.58	29	7.5	23	34	59	34	59	34	59		
71.0	71.23	25	7.5	20	33	57	33	56	33	56		
80.0	80.62	22	7.5	18	31	54	31	54	31	54		
90.0	91.85	20	7.5	15	30	51	30	51	30	51		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W02 P - 1800 rpm

W02 - n1 = 1800 rpm												9.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8.0	7.75	232	6.25	152	83	144	78	135	80	138	2	(M1) 37 (M5) 37 (M4) 37
9.0	8.91	202	7.2	152	78	135	73	126	75	129		
10.0	9.70	186	7.85	153	79	136	75	130	76	132		
11.2	11.16	161	9	152	74	127	70	121	72	124		
12.5	12.36	146	9.5	145	74	129	72	124	73	126		
14.0	14.22	127	9.5	126	70	120	67	116	68	118		
16.0	15.73	114	9.5	114	70	121	68	118	69	119		
18.0	18.10	99	9.5	99	65	113	64	110	65	112		
20.0	19.54	92	9.5	92	63	109	62	108	63	109		
22.4	22.48	80	9.5	80	60	103	59	101	59	102		
25.0	24.30	74	9.5	74	52	90	51	89	51	89	3	(M1) 37 (M5) 37 (M4) 37
28.0	27.95	64	9.5	64	50	86	49	84	49	84		
31.5	30.92	58	9.5	58	50	86	49	85	49	85		
35.5	35.57	51	9.5	50	47	82	47	81	47	81		
40.0	39.02	46	9.5	46	46	80	46	79	46	79		
45.0	44.88	40	9.5	40	44	76	44	75	44	75		
50.0	48.46	37	9.5	37	43	74	42	73	42	73		
56.0	55.75	32	9.5	32	41	71	40	70	40	70		
63.0	62.14	29	9.5	29	40	70	40	69	40	69		
71.0	71.48	25	9.5	25	38	67	38	66	38	66		
80.0	77.19	23	9.5	23	37	65	37	64	37	64		
90.0	88.79	20	9.5	20	36	62	36	61	36	61		
100.0	100.50	18	9.5	18	36	62	36	62	36	62		
112.0	114.50	16	9.5	16	32	56	32	56	32	56		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W03 P - 1800 rpm

W03 - n1 = 1800 rpm												13 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.22	290	10.9	331	109	188	98	170	103	178	2	(M1) 38 (M5) 38 (M4) 38
7.1	7.19	250	11.4	299	101	175	92	159	96	166		
8	7.74	233	11.7	285	104	180	97	167	100	173		
9	8.95	201	12.2	257	97	168	90	156	94	162		
10	9.86	183	12.7	243	98	169	93	161	95	165		
11.2	11.41	158	13	215	91	158	87	150	89	154		
12.5	12.55	143	13	195	89	155	87	150	88	153		
14	14.52	124	13	169	84	145	81	141	83	143		
16	15.55	116	13	158	81	141	80	138	81	139		
18	17.98	100	13	136	77	133	75	130	76	131		
20	19.36	93	10.9	106	66	114	65	112	66	113	3	(M1) 38 (M5) 38 (M4) 38
22.4	22.39	80	12.7	107	63	109	62	107	62	108		
25	24.64	73	13	99	62	107	61	105	61	106		
28	28.50	63	13	86	59	102	58	100	59	101		
31.5	31.10	58	13	79	58	101	57	99	58	100		
35.5	35.98	50	13	68	56	96	55	95	55	95		
40	38.53	47	13	64	54	93	53	92	54	93		
45	44.56	40	13	55	52	89	51	88	51	89		
50	49.50	36	13	49	51	88	50	87	50	87		
56	57.26	31	13	43	48	84	48	83	48	83		
63	61.32	29	13	40	47	82	47	81	47	81		
71	70.93	25	13	35	45	78	45	77	45	78		
80	80.98	22	13	30	45	77	44	76	44	77		
90	91.90	20	13	27	44	76	44	75	44	76		
100	97.09	19	13	25	45	-	44	-	45	-	4	(M1) 38 (M5) 38 (M4) 38
112	112.30	16	13	22	43	-	42	-	43	-		
125	128.22	14	13	19	42	-	42	-	42	-		
140	143.49	13	13	17	41	-	40	-	41	-		
160	163.84	11	13	15	40	-	40	-	40	-		
180	178.74	10	13	14	37	-	37	-	37	-		
200	204.08	9	13	12	37	-	36	-	36	-		
224	225.06	8	13	11	37	-	36	-	37	-		
250	256.97	7	13	10	36	-	36	-	36	-		
280	280.33	6	13	9	33	-	33	-	33	-		
315	320.08	6	13	8	33	-	33	-	33	-		
355	363.23	5	13	7	32	-	32	-	32	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W04 P - 1800 rpm

W04 - n1 = 1800 rpm												16.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8	7.79	231	13.6	329	121	210	109	188	114	197	2	(M1) 39 (M5) 39 (M4) 39
9	8.96	201	14.2	299	113	195	102	176	107	185		
10	9.70	186	14.6	284	117	202	108	187	112	193		
11.2	11.16	161	15.2	257	108	188	100	174	104	180		
12.5	12.36	146	15.9	242	109	189	104	180	107	184		
14	14.22	127	16.5	219	102	176	97	168	99	172		
16	15.73	114	16.5	198	100	173	97	168	99	171		
18	18.10	99	16.5	172	94	162	91	157	92	160		
20	19.49	92	16.5	160	91	157	89	154	90	156		
22.4	22.42	80	16.5	139	86	148	84	145	85	146		
25	24.26	74	13.75	107	71	124	70	121	71	122	3	(M1) 39 (M5) 39 (M4) 39
28	27.91	64	15.8	107	68	118	67	115	67	116		
31.5	30.88	58	16.5	101	67	116	66	113	66	115		
35.5	35.52	51	16.5	88	64	110	62	108	63	109		
40	38.99	46	16.5	80	63	109	62	107	62	108		
45	44.85	40	16.5	69	60	103	59	102	59	103		
50	48.29	37	16.5	64	58	101	57	99	58	100		
56	55.55	32	16.5	56	56	96	55	95	55	96		
63	62.06	29	16.5	50	55	94	54	94	54	94		
71	71.38	25	16.5	44	52	90	52	89	52	90		
80	76.87	23	16.5	40	51	88	50	87	51	88		
90	88.42	20	16.5	35	49	84	48	83	48	84		
100	100.95	18	16.5	31	48	83	48	82	48	83		
112	114.56	16	16.25	27	47	82	47	81	47	82		
125	121.70	15	16.5	26	48	-	48	-	48	-	4	(M1) 39 (M5) 39 (M4) 39
140	139.99	13	16.5	22	46	-	46	-	46	-		
160	159.84	11	16.5	19	46	-	45	-	45	-		
180	178.88	10	16.5	17	44	-	43	-	44	-		
200	204.24	9	16.5	15	43	-	43	-	43	-		
224	222.81	8	16.5	14	40	-	40	-	40	-		
250	254.40	7	16.5	12	39	-	39	-	39	-		
280	280.55	6	16.5	11	39	-	39	-	39	-		
315	320.33	6	16.5	10	39	-	39	-	39	-		
355	349.46	5	16.5	9	36	-	36	-	36	-		
400	399.01	5	16.5	8	35	-	35	-	35	-		
450	452.79	4	16.5	7	35	-	34	-	35	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W05 P - 1800 rpm

W05 - n1 = 1800 rpm												22 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.23	289	18	561	171	296	143	248	148	256	2	(M1) 40 (M5) 40 (M4) 40
7.1	7.21	250	19.5	525	160	277	135	234	140	242		
8	7.74	232	19.5	489	162	281	142	246	146	252		
9	8.96	201	20.5	445	152	263	134	233	138	239		
10	9.95	181	21	410	146	253	135	234	138	238		
11.2	11.51	156	22	372	137	238	127	219	129	224		
12.5	12.55	143	22	341	140	242	133	230	135	233		
14	14.52	124	22	294	132	228	125	216	127	219		
16	15.58	116	22	274	130	225	125	217	126	219		
18	18.02	100	22	237	122	212	118	204	119	206		
20	19.51	92	19	192	100	173	97	168	98	170	3	(M1) 40 (M5) 40 (M4) 40
22.4	22.57	80	22	192	96	165	93	160	94	162		
25	24.62	73	22	176	100	173	97	168	98	170		
28	28.48	63	22	152	96	165	93	160	94	162		
31.5	31.38	57	22	138	95	164	93	160	94	162		
35.5	36.29	50	22	120	91	157	89	153	90	155		
40	38.95	46	22	111	89	155	87	151	88	153		
45	45.05	40	22	96	86	148	84	144	85	146		
50	49.60	36	22	88	82	142	82	141	82	142		
56	57.38	31	22	76	75	129	74	128	74	129		
63	61.58	29	22	71	75	129	74	128	74	129		
71	71.23	25	22	61	75	129	74	128	74	129		
80	81.15	22	22	54	75	129	74	128	74	129		
90	91.85	20	22	47	68	118	67	116	68	117		
100	96.60	19	22	45	74	-	73	-	74	-	4	(M1) 40 (M5) 40 (M4) 40
112	111.74	16	22	39	71	-	70	-	71	-		
125	127.29	14	22	35	68	-	67	-	67	-		
140	142.21	13	22	31	67	-	66	-	67	-		
160	162.01	11	22	27	64	-	63	-	63	-		
180	176.65	10	22	25	62	-	61	-	62	-		
200	201.25	9	22	22	59	-	58	-	59	-		
224	226.50	8	22	19	60	-	59	-	60	-		
250	258.04	7	22	17	57	-	57	-	57	-		
280	281.36	6	22	16	55	-	55	-	55	-		
315	320.53	6	22	14	53	-	52	-	52	-		
355	362.81	5	22	12	50	-	50	-	50	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W06 P - 1800 rpm

W06 - n1 = 1800 rpm												28 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8	7.82	230	24	597	191	330	160	277	165	286	2	(M1) 41 (M5) 41 (M4) 41
9	8.99	200	25.5	551	178	308	152	262	157	271		
10	9.71	185	25.5	511	181	313	161	279	165	285		
11.2	11.16	161	27	470	170	293	151	261	155	267		
12.5	12.47	144	28	436	164	284	152	262	154	267		
14	14.34	126	28	379	154	267	142	246	145	251		
16	15.73	114	28	346	158	273	149	258	151	262		
18	18.10	99	28	301	148	256	140	242	142	246		
20	19.53	92	28	279	146	253	141	244	142	246		
22.4	22.47	80	28	242	138	239	133	229	134	232		
25	24.46	74	24.9	201	109	188	105	182	107	185	3	(M1) 41 (M5) 41 (M4) 41
28	28.13	64	28	196	102	177	99	171	101	174		
31.5	30.86	58	28	179	107	185	104	180	105	182		
35.5	35.50	51	28	156	102	177	99	171	101	174		
40	39.33	46	28	141	101	176	99	172	100	174		
45	45.24	40	28	122	97	168	95	164	96	166		
50	48.83	37	28	113	96	166	94	162	95	164		
56	56.16	32	28	98	92	158	89	155	91	156		
63	62.18	29	28	89	84	145	83	143	83	144		
71	71.52	25	28	77	80	139	79	137	80	138		
80	77.19	23	28	72	80	139	79	137	80	138		
90	88.79	20	28	62	80	139	79	137	80	138		
100	101.16	18	28	55	76	132	75	130	76	131		
112	114.50	16	28	48	73	126	72	125	73	125		
125	121.09	15	28	46	80	-	79	-	79	-	4	(M1) 41 (M5) 41 (M4) 41
140	139.29	13	28	40	76	-	75	-	76	-		
160	158.68	11	28	35	73	-	72	-	72	-		
180	177.27	10	28	32	72	-	71	-	71	-		
200	201.96	9	28	28	68	-	67	-	68	-		
224	220.21	8	28	25	66	-	65	-	66	-		
250	250.87	7	28	22	63	-	62	-	63	-		
280	282.35	6	28	20	64	-	64	-	64	-		
315	321.67	6	28	17	61	-	60	-	61	-		
355	350.73	5	28	16	59	-	59	-	59	-		
400	399.57	5	28	14	56	-	56	-	56	-		
450	452.27	4	28	12	54	-	53	-	54	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W07 P - 1800 rpm

W07 - n1 = 1800 rpm												36 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C [kW]						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.26	288	30	932	261	452	200	346	210	364	2	(M1) 42 (M5) 42 (M4) 42
7.1	7.24	249	31.5	846	245	424	191	330	201	347		
8	7.74	232	32	803	250	432	208	360	216	374		
9	8.96	201	33.5	727	234	405	195	338	203	351		
10	9.86	183	35	690	238	412	210	363	216	373		
11.2	11.41	158	36	613	224	387	196	339	202	350		
12.5	12.35	146	36	567	225	389	206	356	210	364		
14	14.28	126	36	490	212	366	193	333	197	341		
16	15.55	116	36	450	199	344	187	324	190	329		
18	17.98	100	36	389	188	326	177	305	179	310		
20	19.34	93	26	265	158	273	149	258	153	264	3	(M1) 42 (M5) 42 (M4) 42
22.4	22.37	80	30	265	149	259	142	245	145	251		
25	24.22	74	32.5	265	157	271	149	257	152	263		
28	28.02	64	36	254	149	259	142	245	145	251		
31.5	30.87	58	36	230	148	255	142	246	145	250		
35.5	35.71	50	36	199	141	244	136	235	138	239		
40	38.86	46	36	183	134	231	129	223	131	227		
45	44.95	40	36	158	128	222	123	213	126	217		
50	48.66	37	36	146	115	200	113	196	114	198		
56	56.29	32	36	126	111	192	109	188	110	190		
63	61.27	29	36	116	111	192	109	188	110	190		
71	70.87	25	36	100	111	192	109	188	110	190		
80	81.45	22	36	87	109	188	106	184	108	186		
90	92.99	19	36	76	106	184	104	180	105	182		
100	96.32	19	36	75	111	-	109	-	110	-	4	(M1) 42 (M5) 42 (M4) 42
112	111.41	16	36	65	107	-	105	-	106	-		
125	128.04	14	36	56	105	-	102	-	104	-		
140	141.79	13	36	51	99	-	97	-	98	-		
160	162.95	11	36	44	97	-	95	-	96	-		
180	175.63	10	36	41	92	-	90	-	91	-		
200	201.84	9	36	36	90	-	88	-	89	-		
224	225.68	8	36	32	89	-	88	-	89	-		
250	259.36	7	36	28	87	-	86	-	87	-		
280	279.54	6	36	26	82	-	81	-	82	-		
315	321.26	6	36	22	81	-	79	-	80	-		
355	366.81	5	36	20	79	-	77	-	78	-		

Notes: **(-)** = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W08 P - 1800 rpm

W08 - n1 = 1800 rpm												46 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8	7.84	230	37.5	929	271	468	205	355	215	373	2	(M1) 43 (M5) 43 (M4) 43
9	9.02	200	39	840	255	440	197	341	207	358		
10	9.71	185	40.5	811	261	451	216	373	224	387		
11.2	11.16	161	42	731	244	423	203	352	211	365		
12.5	12.36	146	44	692	250	432	219	379	225	390		
14	14.22	127	45	615	234	405	205	355	211	365		
16	15.48	116	46	578	236	409	216	373	220	381		
18	17.80	101	46	502	222	383	202	349	206	357		
20	19.49	92	46	459	209	361	196	340	199	345		
22.4	22.42	80	46	399	197	341	185	320	188	325		
25	24.25	74	32.9	268	165	285	156	270	160	276	3	(M1) 43 (M5) 43 (M4) 43
28	27.89	65	37.8	268	163	283	155	267	158	273		
31.5	30.36	59	41	267	163	283	155	269	159	275		
35.5	34.92	52	46	260	156	269	148	255	151	261		
40	38.70	47	46	235	154	266	149	257	151	261		
45	44.51	40	46	204	147	254	141	244	144	249		
50	48.72	37	46	186	139	241	134	232	137	237		
56	56.04	32	46	162	133	231	128	222	131	226		
63	61.00	30	46	149	120	208	118	204	119	206		
71	70.17	26	46	129	116	200	113	196	114	198		
80	76.80	23	46	118	116	200	113	196	114	198		
90	88.34	20	46	103	116	200	113	196	114	198		
100	101.53	18	46	89	113	196	111	191	112	194		
112	115.92	16	46	78	111	192	109	188	110	190		
125	120.73	15	46	76	116	-	114	-	115	-	4	(M1) 43 (M5) 43 (M4) 43
140	138.88	13	46	66	111	-	109	-	110	-		
160	159.61	11	46	58	109	-	107	-	108	-		
180	176.75	10	46	52	103	-	101	-	103	-		
200	203.14	9	46	45	101	-	99	-	100	-		
224	218.94	8	46	42	96	-	93	-	95	-		
250	251.61	7	46	37	94	-	91	-	93	-		
280	281.33	6	46	33	93	-	92	-	92	-		
315	323.31	6	46	29	91	-	90	-	91	-		
355	348.46	5	46	26	86	-	85	-	85	-		
400	400.47	4	46	23	84	-	83	-	84	-		
450	457.26	4	46	20	82	-	81	-	82	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W09 P - 1800 rpm

W09 - n1 = 1800 rpm												58.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.23	289	50	1558	291	503	203	352	216	374	2	(M1) 44 (M5) 44 (M4) 44
7.1	7.21	250	55	1482	274	475	195	338	208	360		
8	7.74	232	55	1380	283	490	220	381	231	400		
9	8.96	201	58.5	1269	266	460	209	361	219	379		
10	9.94	181	58.5	1144	272	471	230	397	238	412		
11.2	11.50	157	58.5	989	256	443	215	371	223	386		
12.5	12.40	145	58.5	917	258	447	228	394	234	405		
14	14.34	126	58.5	793	243	420	213	369	220	380		
16	15.53	116	58.5	732	229	397	211	364	215	372		
18	17.96	100	58.5	633	217	375	198	343	203	351		
20	19.51	92	55	556	191	330	176	305	183	316	3	(M1) 44 (M5) 44 (M4) 44
22.4	22.57	80	58.5	512	181	313	167	289	173	300		
25	24.33	74	58.5	474	189	328	176	304	182	315		
28	28.15	64	58.5	410	181	313	167	289	173	300		
31.5	31.26	58	58.5	369	175	303	166	287	170	295		
35.5	36.16	50	58.5	319	168	290	159	274	163	282		
40	39.17	46	58.5	295	160	277	152	262	156	270		
45	45.30	40	58.5	255	154	266	145	251	150	258		
50	48.97	37	58.5	236	145	251	141	243	143	247		
56	56.64	32	58.5	204	139	241	135	233	137	237		
63	61.35	29	58.5	188	139	241	135	233	137	237		
71	70.96	25	58.5	163	139	241	135	233	137	237		
80	80.62	22	58.5	143	137	237	132	229	135	233		
90	91.85	20	58.5	126	131	226	127	220	129	223		
100	97.91	18	58.5	120	133	-	130	-	132	-	4	(M1) 44 (M5) 44 (M4) 44
112	113.26	16	58.5	104	129	-	125	-	127	-		
125	128.68	14	58.5	91	127	-	122	-	125	-		
140	142.90	13	58.5	82	123	-	119	-	121	-		
160	162.36	11	58.5	72	121	-	116	-	119	-		
180	177.40	10	58.5	66	115	-	111	-	114	-		
200	201.56	9	58.5	58	113	-	109	-	112	-		
224	225.92	8	58.5	52	110	-	108	-	109	-		
250	256.69	7	58.5	46	108	-	106	-	107	-		
280	280.47	6	58.5	42	103	-	101	-	102	-		
315	318.66	6	58.5	37	101	-	99	-	100	-		
355	363.03	5	58.5	32	96	-	94	-	95	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W10 P - 1800 rpm

W10 - n1 = 1800 rpm												67 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.03	256	57	1577	(*)	(*)	(*)	(*)	(*)	(*)	2	(M1) 45 (M5) 45 (M4) 45
8	8.10	222	62	1487	(*)	(*)	(*)	(*)	(*)	(*)		
9	8.72	206	62	1381	291	504	226	390	237	409		
10	10.06	179	67	1294	274	474	215	372	226	390		
11.2	11.2	161	67	1162	281	486	237	410	245	425		
12.5	12.92	139	67	1008	264	457	221	383	230	398		
14	13.97	129	67	932	267	461	235	407	242	418		
16	16.11	112	67	808	251	434	220	381	227	392		
18	17.5	103	67	744	237	410	217	376	222	384		
20	20.18	89	67	645	224	388	205	354	209	362		
22.4	21.99	82	60.5	543	196	340	181	313	188	325	3	(M1) 45 (M5) 45 (M4) 45
25	25.35	71	67	522	186	321	172	297	178	308		
28	27.42	66	67	482	194	336	181	313	187	323		
31.5	31.62	57	67	418	186	321	172	297	178	308		
35.5	35.22	51	67	375	180	311	171	295	175	302		
40	40.62	44	67	326	172	298	163	281	167	289		
45	44.13	41	67	300	164	284	156	269	160	277		
50	50.89	35	67	260	158	273	149	257	153	265		
56	55.17	33	67	240	149	257	144	250	147	253		
63	63.62	28	67	208	143	247	138	239	141	243		
71	69.13	26	67	191	143	247	138	239	141	243		
80	79.71	23	67	166	143	247	138	239	141	243		
90	90.56	20	67	146	141	243	136	235	138	239		
100	103.17	17	67	128	134	232	130	225	132	229		
112	110.33	16	67	122	137	-	133	-	135	-	4	(M1) 45 (M5) 45 (M4) 45
125	127.22	14	67	106	132	-	128	-	130	-		
140	144.54	12	67	93	130	-	126	-	128	-		
160	160.52	11	67	84	126	-	122	-	124	-		
180	182.38	10	67	74	124	-	119	-	122	-		
200	199.27	9	67	67	118	-	114	-	116	-		
224	226.41	8	67	59	116	-	112	-	115	-		
250	253.77	7	67	53	113	-	111	-	112	-		
280	288.33	6	67	47	111	-	109	-	110	-		
315	315.04	6	67	43	105	-	104	-	105	-		
355	357.94	5	67	38	104	-	102	-	103	-		
400	407.78	4	67	33	99	-	96	-	98	-		

Notes: (*) = consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W11 P - 1800 rpm

W11 - n1 = 1800 rpm											80 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.22	290	63	1970	(*)	(*)	(*)	(*)	(*)	(*)	2	(M1) 46 (M5) 46 (M4) 46
7.1	7.19	250	66	1784	(*)	(*)	(*)	(*)	(*)	(*)		
8	7.76	232	68	1703	(*)	(*)	(*)	(*)	(*)	(*)		
9	8.97	201	71	1538	(*)	(*)	(*)	(*)	(*)	(*)		
10	9.86	183	73.5	1448	363	628	275	476	292	506		
11.2	11.41	158	76.5	1303	339	586	255	442	272	471		
12.5	12.55	143	80	1239	351	607	287	497	301	521		
14	14.52	124	80	1071	328	568	267	461	280	485		
16	15.36	117	80	1012	322	556	279	482	289	499		
18	17.77	101	80	875	303	524	260	451	271	468		
20	19.36	93	74	755	240	415	210	363	223	386	3	(M1) 46 (M5) 46 (M4) 46
22.4	22.39	80	80	705	229	396	198	343	212	366		
25	24.64	73	80	641	240	415	210	363	223	386		
28	28.50	63	80	554	229	396	198	343	212	366		
31.5	31.38	57	80	503	230	399	208	360	219	378		
35.5	36.29	50	80	435	220	381	197	341	208	360		
40	38.41	47	80	411	212	367	191	330	202	348		
45	44.42	41	80	355	203	351	181	313	192	332		
50	49.46	36	80	319	186	321	175	303	181	313		
56	57.21	31	80	276	179	309	168	290	173	300		
63	60.55	30	80	261	179	309	168	290	173	300		
71	70.03	26	80	225	179	309	168	290	173	300		
80	80.39	22	80	196	170	294	159	275	165	285		
90	92.39	19	80	171	166	287	157	271	162	280		
100	96.02	19	80	167	180	-	170	-	176	-	4	(M1) 46 (M5) 46 (M4) 46
112	111.06	16	80	144	173	-	162	-	169	-		
125	127.48	14	80	126	165	-	154	-	161	-		
140	139.07	13	80	115	163	-	152	-	159	-		
160	159.63	11	80	100	156	-	144	-	151	-		
180	175.08	10	80	92	149	-	138	-	145	-		
200	200.97	9	80	80	142	-	131	-	138	-		
224	219.24	8	80	73	147	-	141	-	145	-		
250	251.65	7	80	64	140	-	134	-	138	-		
280	276.02	7	80	58	134	-	128	-	132	-		
315	316.82	6	80	51	127	-	122	-	125	-		
355	364.11	5	80	44	123	-	117	-	121	-		

Notes: **(*) =** consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W12 P - 1800 rpm

W12 - n1 = 1800 rpm												92 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C [kW]						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.00	257	71	1970	(*)	(*)	(*)	(*)	(*)	(*)	2	(M1) 47 (M5) 47 (M4) 47
8	8.08	223	74	1781	(*)	(*)	(*)	(*)	(*)	(*)		
9	8.74	206	46	1023	(*)	(*)	(*)	(*)	(*)	(*)		
10	10.08	179	79	1523	(*)	(*)	(*)	(*)	(*)	(*)		
11.2	11.11	162	83	1452	373	645	281	486	299	517		
12.5	12.81	140	86	1304	348	603	263	455	280	485		
14	14.14	127	90	1237	361	624	296	512	310	535		
16	16.31	110	92	1096	338	584	275	475	289	499		
18	17.31	104	92	1033	331	572	287	496	297	514		
20	19.96	90	92	896	311	539	268	464	278	482		
22.4	21.81	83	85	769	245	423	213	368	227	392	3	(M1) 47 (M5) 47 (M4) 47
25	25.15	72	92	722	232	401	202	349	215	372		
28	27.76	65	92	654	243	421	214	369	227	392		
31.5	32.01	56	92	567	232	401	202	349	215	372		
35.5	35.35	51	92	514	234	405	212	366	222	384		
40	40.77	44	92	445	223	386	201	347	211	365		
45	43.27	42	92	420	215	372	194	336	205	354		
50	49.90	36	92	364	206	356	184	318	195	337		
56	55.73	32	92	326	188	326	178	308	184	317		
63	64.27	28	92	283	181	313	170	294	176	304		
71	68.22	26	92	266	181	313	170	294	176	304		
80	78.67	23	92	231	181	313	170	294	176	304		
90	90.30	20	92	201	173	298	162	279	167	289		
100	103.78	17	79.5	151	168	291	159	275	164	284		
112	108.19	17	91	169	183	-	172	-	178	-	4	(M1) 47 (M5) 47 (M4) 47
125	124.75	14	92	148	176	-	165	-	171	-		
140	143.20	13	92	129	167	-	156	-	163	-		
160	156.21	12	92	118	166	-	155	-	162	-		
180	179.31	10	92	103	158	-	146	-	153	-		
200	196.67	9	92	94	151	-	140	-	147	-		
224	225.75	8	92	82	144	-	133	-	140	-		
250	246.26	7	92	75	149	-	143	-	147	-		
280	282.68	6	92	65	141	-	136	-	140	-		
315	310.04	6	92	60	135	-	130	-	134	-		
355	355.89	5	92	52	129	-	123	-	127	-		
400	409.00	4	92	45	125	-	119	-	123	-		

Notes: **(*) =** consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W13 P - 1800 rpm

W13 - n1 = 1800 rpm											115 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.29	286	96	2968	(*)	(*)	(*)	(*)	(*)	(*)	2	(M1) 48 (M5) 48 (M4) 48
7.1	7.27	248	100	2672	(*)	(*)	(*)	(*)	(*)	(*)		
8	7.75	232	103	2583	(*)	(*)	(*)	(*)	(*)	(*)		
9	8.96	201	107	2320	(*)	(*)	(*)	(*)	(*)	(*)		
10	9.86	183	112	2207	(*)	(*)	(*)	(*)	(*)	(*)		
11.2	11.41	158	115	1959	(*)	(*)	(*)	(*)	(*)	(*)		
12.5	12.43	145	115	1799	435	752	329	568	351	607		
14	14.37	125	115	1555	405	701	303	524	325	562		
16	15.56	116	115	1436	423	732	344	595	362	626		
18	18.00	100	115	1242	396	684	318	551	336	582		
20	19.36	93	96	979	289	500	230	398	255	441	3	(M1) 48 (M5) 48 (M4) 48
22.4	22.39	80	110	970	274	474	221	381	244	421		
25	24.39	74	115	931	289	499	238	411	260	449		
28	28.21	64	115	805	274	474	222	384	245	423		
31.5	31.31	57	115	725	279	483	241	417	259	447		
35.5	36.22	50	115	627	266	460	226	391	245	423		
40	39.21	46	115	579	264	457	226	390	244	423		
45	45.35	40	115	501	251	434	211	366	231	399		
50	48.92	37	115	464	234	404	213	368	224	387		
56	56.59	32	115	401	223	386	202	349	213	368		
63	61.26	29	115	371	223	386	202	349	213	368		
71	70.86	25	115	320	223	386	202	349	213	368		
80	79.84	23	115	284	213	368	191	331	203	350		
90	90.72	20	115	250	208	361	191	331	201	347		
100	98.87	18	115	233	231	-	208	-	222	-	4	(M1) 48 (M5) 48 (M4) 48
112	114.36	16	115	202	221	-	198	-	211	-		
125	128.86	14	115	179	211	-	187	-	201	-		
140	142.63	13	115	162	208	-	185	-	199	-		
160	160.71	11	115	143	198	-	175	-	189	-		
180	178.69	10	115	129	189	-	167	-	181	-		
200	201.35	9	115	115	181	-	158	-	173	-		
224	223.41	8	115	103	187	-	175	-	183	-		
250	251.73	7	115	92	178	-	167	-	174	-		
280	279.90	6	115	82	170	-	159	-	166	-		
315	315.38	6	115	73	162	-	151	-	158	-		
355	358.33	5	115	64	157	-	145	-	153	-		

Notes: (*) = consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W14 P - 1800 rpm

W14 - n1 = 1800 rpm												132 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.08	254	108	2963	(*)	(*)	(*)	(*)	(*)	(*)	2	(M1) 49 (M5) 49 (M4) 49
8	8.17	220	112	2665	(*)	(*)	(*)	(*)	(*)	(*)		
9	8.73	206	116	2582	(*)	(*)	(*)	(*)	(*)	(*)		
10	10.07	179	121	2336	(*)	(*)	(*)	(*)	(*)	(*)		
11.2	11.11	162	126	2204	(*)	(*)	(*)	(*)	(*)	(*)		
12.5	12.81	140	130	1972	(*)	(*)	(*)	(*)	(*)	(*)		
14	14	129	132	1832	443	766	335	580	357	618		
16	16.14	111	132	1589	416	719	311	538	333	576		
18	17.53	103	132	1463	432	746	351	607	369	638		
20	20.22	89	132	1269	406	702	327	566	345	597		
22.4	21.81	83	108	977	292	504	241	417	255	442	3	(M1) 49 (M5) 49 (M4) 49
25	25.15	72	125	981	278	481	226	391	263	454		
28	27.48	65	132	948	292	504	241	417	249	430		
31.5	31.69	57	132	822	278	481	226	391	263	454		
35.5	35.28	51	132	738	282	488	244	422	249	430		
40	40.68	44	132	640	270	467	230	398	262	452		
45	44.18	41	132	590	267	462	229	395	249	430		
50	50.94	35	132	511	255	441	215	372	247	427		
56	55.13	33	132	473	236	408	215	372	235	405		
63	63.57	28	132	410	227	392	205	354	226	391		
71	69.03	26	132	377	227	392	205	354	216	374		
80	79.60	23	132	327	227	392	205	354	216	374		
90	89.69	20	132	290	216	374	195	336	216	374		
100	101.90	18	132	256	212	366	195	336	206	356		
112	111.40	16	132	238	233	-	211	-	224	-	4	(M1) 49 (M5) 49 (M4) 49
125	128.46	14	132	206	224	-	201	-	215	-		
140	144.75	12	132	183	214	-	190	-	204	-		
160	160.22	11	132	165	211	-	188	-	202	-		
180	180.52	10	132	147	201	-	178	-	192	-		
200	200.72	9	132	132	192	-	170	-	184	-		
224	226.17	8	132	117	183	-	161	-	175	-		
250	250.96	7	132	105	190	-	178	-	186	-		
280	282.77	6	132	94	181	-	169	-	177	-		
315	314.41	6	132	84	172	-	161	-	169	-		
355	354.27	5	132	75	165	-	153	-	161	-		
400	402.51	4	132	66	159	-	148	-	155	-		

Notes: **(*) =** consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W15 P - 1800 rpm

W15 - n1 = 1800 rpm											158 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.21	290	118	3692	(*)	(*)	(*)	(*)	(*)	(*)	2	(M1) 50 (M5) 50 (M4) 50
7.1	7.25	248	130	3485	(*)	(*)	(*)	(*)	(*)	(*)		
8	8.03	224	130	3144	(*)	(*)	(*)	(*)	(*)	(*)		
9	9.38	192	134	2777	(*)	(*)	(*)	(*)	(*)	(*)		
10	9.85	183	134	2643	(*)	(*)	(*)	(*)	(*)	(*)		
11.2	11.5	157	144	2433	(*)	(*)	(*)	(*)	(*)	(*)		
12.5	12.41	145	144	2254	476	824	340	589	367	636		
14	14.49	124	154	2065	443	766	318	551	344	596		
16	15.53	116	154	1927	452	781	358	620	379	655		
18	18.13	99	158	1694	421	728	332	574	352	609		
20	19.34	93	128	1306	338	585	276	476	301	519	3	(M1) 50 (M5) 50 (M4) 50
22.4	22.57	80	141	1233	319	552	261	451	284	492		
25	24.37	74	153	1239	336	581	283	489	304	526		
28	28.44	63	158	1096	318	550	265	458	287	496		
31.5	31.29	58	158	997	324	561	287	496	303	524		
35.5	36.51	49	158	854	308	533	269	466	287	495		
40	39.14	46	158	797	299	518	264	457	281	486		
45	45.69	39	158	683	285	493	249	430	266	459		
50	48.88	37	158	638	264	456	246	425	255	441		
56	57.05	32	158	547	252	436	233	403	243	420		
63	61.16	29	158	510	252	436	233	403	243	420		
71	71.38	25	158	437	252	436	233	403	243	420		
80	80.5	22	158	387	245	424	226	390	236	408		
90	91.46	20	158	341	240	415	225	388	233	402		
100	98.71	18	158	321	258	-	239	-	250	-	4	(M1) 50 (M5) 50 (M4) 50
112	115.21	16	158	275	247	-	228	-	239	-		
125	129.92	14	158	244	240	-	220	-	232	-		
140	143.68	13	158	221	233	-	214	-	226	-		
160	162.03	11	158	196	227	-	206	-	219	-		
180	180.01	10	158	176	213	-	194	-	206	-		
200	203	9	158	156	207	-	187	-	200	-		
224	225.06	8	158	141	210	-	201	-	207	-		
250	253.80	7	158	125	204	-	194	-	201	-		
280	281.97	6	158	112	192	-	182	-	188	-		
315	317.98	6	158	100	186	-	177	-	183	-		
355	361.27	5	158	88	181	-	171	-	177	-		

Notes: **(*) =** consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W16 P - 1800 rpm

W16 - n1 = 1800 rpm												178 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	6.95	259	138	3858	(*)	(*)	(*)	(*)	(*)	(*)	2	(M1) 51 (M5) 51 (M4) 51
8	8.09	223	154	3700	(*)	(*)	(*)	(*)	(*)	(*)		
9	8.99	200	146	3155	(*)	(*)	(*)	(*)	(*)	(*)		
10	10.46	172	150	2786	(*)	(*)	(*)	(*)	(*)	(*)		
11.2	11.03	163	150	2643	(*)	(*)	(*)	(*)	(*)	(*)		
12.5	12.83	140	162	2453	(*)	(*)	(*)	(*)	(*)	(*)		
14	13.90	130	162	2265	481	832	344	595	371	642		
16	16.17	111	172	2067	447	774	322	556	348	601		
18	17.39	104	172	1922	457	791	362	626	383	662	3	(M1) 51 (M5) 51 (M4) 51
20	20.23	89	178	1710	426	737	336	582	357	617		
22.4	21.65	83	140	1276	343	593	278	481	304	525		
25	25.19	71	158	1238	323	559	264	457	288	498		
28	27.28	66	172	1244	340	589	287	495	308	533		
31.5	31.74	57	178	1107	322	556	269	465	290	502		
35.5	35.02	51	178	1003	329	569	291	502	307	531		
40	40.75	44	178	862	312	540	273	472	290	502		
45	43.82	41	178	802	303	525	268	463	285	492		
50	50.98	35	178	689	288	499	252	436	269	465		
56	54.72	33	178	642	267	462	249	431	258	447		
63	63.67	28	178	552	257	444	238	411	247	428		
71	68.46	26	178	513	257	444	238	411	247	428		
80	79.66	23	178	441	257	444	238	411	247	428		
90	89.83	20	178	391	249	431	230	398	240	415	4	(M1) 51 (M5) 51 (M4) 51
100	102.07	18	178	344	243	420	228	394	236	407		
112	110.49	16	178	323	261	-	243	-	254	-		
125	128.57	14	178	278	250	-	230	-	242	-		
140	144.98	12	178	246	243	-	223	-	235	-		
160	160.34	11	178	223	236	-	217	-	229	-		
180	180.82	10	178	197	229	-	209	-	222	-		
200	200.88	9	178	178	215	-	197	-	208	-		
224	226.54	8	178	158	209	-	190	-	202	-		
250	251.16	7	178	142	213	-	203	-	209	-		
280	283.23	6	178	126	207	-	197	-	203	-		
315	314.66	6	178	113	194	-	185	-	191	-		
355	354.84	5	178	101	189	-	179	-	185	-		
400	403.16	4	178	89	183	-	173	-	180	-		

Notes: **(*) =** consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W01 P - 1500 rpm

W01 - n1 = 1500 rpm												7.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.18	243	5.0	127	78	124	75	104	76	118	2	(M1) 52 (M5) 52 (M4) 52
7.1	7.15	210	5.8	127	73	116	70	97	71	111		
8.0	7.74	194	6.25	127	73	116	71	98	72	112		
9.0	8.95	168	7.25	127	69	109	66	92	68	105		
10.0	9.86	152	7.5	119	69	110	67	93	68	107		
11.2	11.41	132	7.5	103	65	103	63	88	64	100		
12.5	12.55	120	7.5	94	65	103	63	88	64	100		
14.0	14.52	103	7.5	81	61	97	59	83	61	94		
16.0	15.59	96	7.5	76	59	94	57	80	59	91		
18.0	18.03	83	7.5	65	56	88	54	75	55	86		
20.0	19.38	77	7.5	61	47	74	46	72	46	72	3	(M1) 52 (M5) 52 (M4) 52
22.4	22.42	67	7.5	53	44	71	44	69	44	69		
25.0	24.67	61	7.5	48	44	71	44	69	44	69		
28.0	28.53	53	7.5	41	42	68	42	66	42	66		
31.5	31.13	48	7.5	38	41	66	41	64	41	64		
35.5	36.00	42	7.5	33	40	63	39	61	39	61		
40.0	38.66	39	7.5	30	38	61	38	60	38	60		
45.0	44.72	34	7.5	26	37	59	36	57	37	57		
50.0	49.57	30	7.5	24	36	58	36	56	36	56		
56.0	57.34	26	7.5	21	35	55	34	54	35	54		
63.0	61.58	24	7.5	19	34	54	34	52	34	52		
71.0	71.23	21	7.5	17	32	51	32	50	32	50		
80.0	80.62	19	7.5	15	31	49	31	48	31	48		
90.0	91.85	16	7.5	13	29	47	29	46	29	46		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W02 P - 1500 rpm

W02 - n1 = 1500 rpm												9.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8.0	7.75	194	6.25	127	83	132	79	110	80	125	2	(M1) 53 (M5) 53 (M4) 53
9.0	8.91	168	7.2	127	77	123	74	103	75	117		
10.0	9.70	155	7.85	127	78	124	75	104	76	119		
11.2	11.16	134	9	127	73	116	70	98	71	111		
12.5	12.36	121	9.5	121	73	117	71	99	72	113		
14.0	14.22	105	9.5	105	69	109	66	93	68	106		
16.0	15.73	95	9.5	95	69	109	67	93	68	106		
18.0	18.10	83	9.5	82	64	103	63	87	64	100		
20.0	19.54	77	9.5	76	62	99	61	85	62	97		
22.4	22.48	67	9.5	66	59	93	57	80	58	91		
25.0	24.30	62	9.5	61	51	81	51	79	51	79	3	(M1) 53 (M5) 53 (M4) 53
28.0	27.95	54	9.5	53	49	78	48	75	48	75		
31.5	30.92	49	9.5	48	49	78	48	75	48	75		
35.5	35.57	42	9.5	42	46	74	46	72	46	72		
40.0	39.02	38	9.5	38	45	72	45	70	45	70		
45.0	44.88	33	9.5	33	43	69	43	67	43	67		
50.0	48.46	31	9.5	31	42	67	42	65	42	65		
56.0	55.75	27	9.5	27	40	64	40	62	40	62		
63.0	62.14	24	9.5	24	40	63	39	62	39	62		
71.0	71.48	21	9.5	21	38	60	38	59	38	59		
80.0	77.19	19	9.5	19	37	59	37	57	37	57		
90.0	88.79	17	9.5	17	35	56	35	55	35	55		
100.0	100.50	15	9.5	15	35	57	35	55	35	55		
112.0	114.50	13	9.5	13	32	51	31	49	32	50		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W03 P - 1500 rpm

W03 - n1 = 1500 rpm												13 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.22	241	10.9	275	109	173	103	144	105	163	2	(M1) 54 (M5) 54 (M4) 54
7.1	7.19	209	11.4	249	101	161	96	134	98	152		
8	7.74	194	11.7	238	104	165	99	138	101	158		
9	8.95	168	12.2	214	96	153	92	129	94	147		
10	9.86	152	12.7	202	97	154	93	130	95	148		
11.2	11.41	132	13	179	90	144	87	121	89	139		
12.5	12.55	120	13	163	88	141	86	120	88	137		
14	14.52	103	13	141	83	132	80	112	82	128		
16	15.55	96	13	131	80	128	78	109	80	124		
18	17.98	83	13	114	76	120	73	103	75	117		
20	19.36	77	10.9	88	65	103	64	100	65	101	3	(M1) 54 (M5) 54 (M4) 54
22.4	22.39	67	12.7	89	62	99	61	95	62	96		
25	24.64	61	13	83	61	97	60	94	61	94		
28	28.50	53	13	72	58	92	57	89	58	90		
31.5	31.10	48	13	66	57	91	57	88	57	89		
35.5	35.98	42	13	57	55	87	54	84	54	85		
40	38.53	39	13	53	53	84	53	82	53	82		
45	44.56	34	13	46	51	81	50	78	51	79		
50	49.50	30	13	41	50	79	49	77	50	77		
56	57.26	26	13	36	48	76	47	74	47	74		
63	61.32	24	13	33	46	74	46	72	46	72		
71	70.93	21	13	29	44	71	44	69	44	69		
80	80.98	19	13	25	44	70	44	68	44	68		
90	91.90	16	13	22	43	69	43	67	43	67		
100	97.09	15	13	21	44	-	44	-	44	-	4	(M1) 54 (M5) 54 (M4) 54
112	112.30	13	13	18	42	-	42	-	42	-		
125	128.22	12	13	16	42	-	41	-	41	-		
140	143.49	10	13	14	40	-	40	-	40	-		
160	163.84	9	13	12	40	-	39	-	39	-		
180	178.74	8	13	11	37	-	36	-	36	-		
200	204.08	7	13	10	36	-	36	-	36	-		
224	225.06	7	13	9	36	-	36	-	36	-		
250	256.97	6	13	8	36	-	35	-	35	-		
280	280.33	5	13	7	33	-	33	-	33	-		
315	320.08	5	13	6	32	-	32	-	32	-		
355	363.23	4	13	6	32	-	32	-	32	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W04 P - 1500 rpm

W04 - n1 = 1500 rpm												16.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8	7.79	193	13.6	274	122	194	115	161	117	182	2	(M1) 55 (M5) 55 (M4) 55
9	8.96	167	14.2	249	113	180	107	150	109	170		
10	9.70	155	14.6	236	116	185	111	155	113	176		
11.2	11.16	134	15.2	214	108	172	103	144	105	164		
12.5	12.36	121	15.9	202	108	172	104	146	106	166		
14	14.22	105	16.5	182	101	161	97	136	99	155		
16	15.73	95	16.5	165	99	158	96	134	98	153		
18	18.10	83	16.5	143	93	148	90	125	92	143		
20	19.49	77	16.5	133	90	143	87	122	89	139		
22.4	22.42	67	16.5	116	84	134	82	114	84	131		
25	24.26	62	13.75	89	70	112	69	108	70	109	3	(M1) 55 (M5) 55 (M4) 55
28	27.91	54	15.8	89	67	106	66	103	66	103		
31.5	30.88	49	16.5	84	66	105	65	101	65	102		
35.5	35.52	42	16.5	73	63	100	62	96	62	97		
40	38.99	38	16.5	66	62	98	61	95	61	96		
45	44.85	33	16.5	58	59	94	58	91	58	91		
50	48.29	31	16.5	54	57	91	57	88	57	89		
56	55.55	27	16.5	47	55	87	54	84	54	85		
63	62.06	24	16.5	42	54	85	53	83	53	83		
71	71.38	21	16.5	36	51	81	51	79	51	80		
80	76.87	20	16.5	34	50	79	50	77	50	78		
90	88.42	17	16.5	29	48	76	47	74	48	74		
100	100.95	15	16.5	26	47	75	47	73	47	73		
112	114.56	13	16.25	22	47	74	46	72	47	73		
125	121.70	12	16.5	21	47	-	47	-	47	-	4	(M1) 55 (M5) 55 (M4) 55
140	139.99	11	16.5	19	45	-	45	-	45	-		
160	159.84	9	16.5	16	45	-	44	-	45	-		
180	178.88	8	16.5	14	43	-	43	-	43	-		
200	204.24	7	16.5	13	43	-	42	-	42	-		
224	222.81	7	16.5	12	39	-	39	-	39	-		
250	254.40	6	16.5	10	39	-	39	-	39	-		
280	280.55	5	16.5	9	39	-	39	-	39	-		
315	320.33	5	16.5	8	38	-	38	-	38	-		
355	349.46	4	16.5	7	35	-	35	-	35	-		
400	399.01	4	16.5	6	35	-	35	-	35	-		
450	452.79	3	16.5	6	34	-	34	-	34	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W05 P - 1500 rpm

W05 - n1 = 1500 rpm												22 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.23	241	18	468	172	273	157	219	155	242	2	(M1) 56 (M5) 56 (M4) 56
7.1	7.21	208	19.5	438	160	255	147	205	146	227		
8	7.74	194	19.5	408	162	258	150	210	150	234		
9	8.96	167	20.5	371	151	241	141	197	141	221		
10	9.95	151	21	342	145	231	138	192	139	217		
11.2	11.51	130	22	310	136	217	129	180	130	203		
12.5	12.55	120	22	284	139	221	133	185	135	210		
14	14.52	103	22	245	131	208	125	175	127	198		
16	15.58	96	22	229	128	204	124	173	126	196		
18	18.02	83	22	198	121	193	117	163	119	185		
20	19.51	77	19	160	98	156	96	150	97	151	3	(M1) 56 (M5) 56 (M4) 56
22.4	22.57	66	22	160	94	150	92	143	93	145		
25	24.62	61	22	147	98	156	96	150	97	151		
28	28.48	53	22	127	99	158	92	143	93	145		
31.5	31.38	48	22	115	93	148	92	143	92	144		
35.5	36.29	41	22	100	89	142	88	137	88	138		
40	38.95	39	22	93	88	140	87	135	87	136		
45	45.05	33	22	80	84	134	83	129	83	130		
50	49.60	30	22	73	81	129	80	125	81	126		
56	57.38	26	22	63	74	117	73	114	73	114		
63	61.58	24	22	59	74	117	73	114	73	114		
71	71.23	21	22	51	74	117	73	114	73	114		
80	81.15	18	22	45	74	117	73	114	73	114		
90	91.85	16	22	39	67	107	66	104	67	104		
100	96.60	16	22	37	73	-	72	-	73	-	4	(M1) 56 (M5) 56 (M4) 56
112	111.74	13	22	33	70	-	69	-	70	-		
125	127.29	12	22	29	67	-	66	-	66	-		
140	142.21	11	22	26	66	-	65	-	66	-		
160	162.01	9	22	23	63	-	62	-	62	-		
180	176.65	8	22	21	61	-	60	-	61	-		
200	201.25	7	22	18	58	-	57	-	58	-		
224	226.50	7	22	16	59	-	59	-	59	-		
250	258.04	6	22	14	56	-	56	-	56	-		
280	281.36	5	22	13	54	-	54	-	54	-		
315	320.53	5	22	11	52	-	52	-	52	-		
355	362.81	4	22	10	49	-	49	-	49	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W06 P - 1500 rpm

W06 - n1 = 1500 rpm												28 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8	7.82	192	24	497	192	306	176	246	173	270	2	(M1) 57 (M5) 57 (M4) 57
9	8.99	167	25.5	459	179	284	164	229	163	254		
10	9.71	155	25.5	425	181	287	169	236	169	263		
11.2	11.16	134	27	392	169	269	158	221	158	247		
12.5	12.47	120	28	364	162	259	154	215	156	243		
14	14.34	105	28	316	153	243	145	202	146	228		
16	15.73	95	28	288	156	248	149	209	151	236		
18	18.10	83	28	251	147	233	140	196	142	222		
20	19.53	77	28	232	144	230	139	194	142	221		
22.4	22.47	67	28	202	136	217	131	183	133	208		
25	24.46	61	24.9	167	107	171	105	163	106	165	3	(M1) 57 (M5) 57 (M4) 57
28	28.13	53	28	164	101	160	98	154	99	155		
31.5	30.86	49	28	149	105	168	103	161	104	162		
35.5	35.50	42	28	130	101	160	98	154	99	155		
40	39.33	38	28	117	100	159	98	153	99	154		
45	45.24	33	28	102	95	152	94	146	94	147		
50	48.83	31	28	94	94	150	93	145	94	146		
56	56.16	27	28	82	90	143	89	138	89	139		
63	62.18	24	28	74	82	131	82	127	82	128		
71	71.52	21	28	64	79	125	78	122	78	122		
80	77.19	19	28	60	79	125	78	122	78	122		
90	88.79	17	28	52	79	125	78	122	78	122		
100	101.16	15	28	46	75	119	74	116	75	117		
112	114.50	13	28	40	72	114	71	111	71	111		
125	121.09	12	28	39	78	-	77	-	78	-	4	(M1) 57 (M5) 57 (M4) 57
140	139.29	11	28	34	75	-	74	-	74	-		
160	158.68	9	28	29	71	-	71	-	71	-		
180	177.27	8	28	26	70	-	70	-	70	-		
200	201.96	7	28	23	67	-	66	-	67	-		
224	220.21	7	28	21	65	-	64	-	65	-		
250	250.87	6	28	19	62	-	61	-	62	-		
280	282.35	5	28	17	63	-	63	-	63	-		
315	321.67	5	28	15	60	-	60	-	60	-		
355	350.73	4	28	13	58	-	58	-	58	-		
400	399.57	4	28	12	55	-	55	-	55	-		
450	452.27	3	28	10	53	-	53	-	53	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W07 P - 1500 rpm

W07 - n1 = 1500 rpm												36 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.26	240	30	776	265	423	235	327	227	354	2	(M1) 58 (M5) 58 (M4) 58
7.1	7.24	207	31.5	705	248	395	220	308	215	335		
8	7.74	194	32	669	251	399	229	320	226	353		
9	8.96	167	33.5	606	235	374	215	299	212	331		
10	9.86	152	35	575	238	379	222	310	222	346		
11.2	11.41	132	36	511	223	356	208	290	208	324		
12.5	12.35	121	36	472	224	356	212	296	213	332		
14	14.28	105	36	408	210	335	199	278	200	312		
16	15.55	96	36	375	197	314	188	263	191	298		
18	17.98	83	36	324	186	297	178	249	180	281		
20	19.34	78	26	221	155	247	150	234	152	238	3	(M1) 58 (M5) 58 (M4) 58
22.4	22.37	67	30	221	147	235	142	222	145	225		
25	24.22	62	32.5	221	154	246	149	232	151	236		
28	28.02	54	36	211	147	235	142	222	145	225		
31.5	30.87	49	36	192	145	231	142	221	143	223		
35.5	35.71	42	36	166	139	221	135	211	137	214		
40	38.86	39	36	152	131	209	128	200	130	203		
45	44.95	33	36	132	126	201	123	191	124	194		
50	48.66	31	36	122	113	180	112	174	113	176		
56	56.29	27	36	105	109	174	108	168	108	169		
63	61.27	24	36	97	109	174	108	168	108	169		
71	70.87	21	36	84	109	174	108	168	108	169		
80	81.45	18	36	73	107	170	105	164	106	166		
90	92.99	16	36	64	105	167	103	161	104	162		
100	96.32	16	36	62	109	-	108	-	108	-	4	(M1) 58 (M5) 58 (M4) 58
112	111.41	13	36	54	105	-	103	-	104	-		
125	128.04	12	36	47	103	-	101	-	102	-		
140	141.79	11	36	42	97	-	96	-	97	-		
160	162.95	9	36	37	96	-	94	-	95	-		
180	175.63	9	36	34	90	-	89	-	90	-		
200	201.84	7	36	30	88	-	87	-	88	-		
224	225.68	7	36	27	87	-	87	-	87	-		
250	259.36	6	36	23	86	-	85	-	85	-		
280	279.54	5	36	22	81	-	80	-	81	-		
315	321.26	5	36	19	79	-	79	-	79	-		
355	366.81	4	36	16	77	-	77	-	77	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W08 P - 1500 rpm

W08 - n1 = 1500 rpm												46 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8	7.84	191	37.5	774	277	441	244	340	234	365	2	(M1) 59 (M5) 59 (M4) 59
9	9.02	166	39	700	259	412	229	320	223	347		
10	9.71	155	40.5	676	263	418	239	334	236	367		
11.2	11.16	134	42	609	246	391	224	313	221	345		
12.5	12.36	121	44	576	249	397	233	325	232	362		
14	14.22	105	45	513	234	372	218	304	217	339		
16	15.48	97	46	481	235	374	222	310	223	349		
18	17.80	84	46	418	220	351	208	291	210	327		
20	19.49	77	46	382	207	329	198	276	200	312		
22.4	22.42	67	46	332	195	311	187	261	189	295		
25	24.25	62	32.9	223	163	259	156	244	159	248	3	(M1) 59 (M5) 59 (M4) 59
28	27.89	54	37.8	223	161	256	155	242	157	246		
31.5	30.36	49	41	222	161	256	156	243	158	246		
35.5	34.92	43	46	217	154	245	148	231	151	235		
40	38.70	39	46	196	151	241	148	230	149	233		
45	44.51	34	46	170	145	230	141	220	143	223		
50	48.72	31	46	155	137	218	134	209	136	211		
56	56.04	27	46	135	131	209	128	199	130	202		
63	61.00	25	46	124	118	188	117	182	117	183		
71	70.17	21	46	108	114	181	112	175	113	176		
80	76.80	20	46	99	114	181	112	175	113	176		
90	88.34	17	46	86	114	181	112	175	113	176		
100	101.53	15	46	75	111	177	110	171	111	173		
112	115.92	13	46	65	109	174	108	168	108	169		
125	120.73	12	46	64	114	-	112	-	113	-	4	(M1) 59 (M5) 59 (M4) 59
140	138.88	11	46	55	109	-	108	-	109	-		
160	159.61	9	46	48	107	-	105	-	106	-		
180	176.75	8	46	43	101	-	100	-	101	-		
200	203.14	7	46	38	99	-	98	-	99	-		
224	218.94	7	46	35	94	-	92	-	93	-		
250	251.61	6	46	31	92	-	90	-	92	-		
280	281.33	5	46	27	91	-	90	-	91	-		
315	323.31	5	46	24	89	-	89	-	89	-		
355	348.46	4	46	22	84	-	84	-	84	-		
400	400.47	4	46	19	83	-	82	-	82	-		
450	457.26	3	46	17	81	-	80	-	80	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W09 P - 1500 rpm

W09 - n1 = 1500 rpm												58.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.23	241	50	1299	300	478	255	355	241	375	2	(M1) 60 (M5) 60 (M4) 60
7.1	7.21	208	55	1235	282	449	241	336	230	358		
8	7.74	194	55	1150	287	457	255	357	248	387		
9	8.96	167	58.5	1058	269	429	240	335	234	365		
10	9.94	151	58.5	953	274	436	251	351	249	388		
11.2	11.50	130	58.5	824	257	409	236	329	233	364		
12.5	12.40	121	58.5	764	258	411	241	337	241	376		
14	14.34	105	58.5	661	243	386	227	316	226	353		
16	15.53	97	58.5	610	228	363	216	302	218	340		
18	17.96	83	58.5	527	216	344	204	285	206	321		
20	19.51	77	55	464	189	301	179	279	183	286	3	(M1) 60 (M5) 60 (M4) 60
22.4	22.57	66	58.5	426	179	285	170	264	174	271		
25	24.33	62	58.5	395	187	298	178	277	182	284		
28	28.15	53	58.5	342	179	285	170	264	174	271		
31.5	31.26	48	58.5	308	172	275	166	259	169	264		
35.5	36.16	41	58.5	266	166	264	159	248	162	253		
40	39.17	38	58.5	246	158	251	152	237	155	242		
45	45.30	33	58.5	212	152	242	146	227	149	232		
50	48.97	31	58.5	197	142	227	140	218	141	220		
56	56.64	26	58.5	170	137	218	134	209	136	211		
63	61.35	24	58.5	157	137	218	134	209	136	211		
71	70.96	21	58.5	136	137	218	134	209	136	211		
80	80.62	19	58.5	119	135	215	132	206	134	208		
90	91.85	16	58.5	105	129	205	126	197	128	199		
100	97.91	15	58.5	100	131	-	128	-	130	-	4	(M1) 60 (M5) 60 (M4) 60
112	113.26	13	58.5	86	126	-	123	-	125	-		
125	128.68	12	58.5	76	124	-	121	-	123	-		
140	142.90	10	58.5	68	120	-	117	-	119	-		
160	162.36	9	58.5	60	119	-	116	-	117	-		
180	177.40	8	58.5	55	113	-	110	-	112	-		
200	201.56	7	58.5	49	111	-	108	-	110	-		
224	225.92	7	58.5	43	108	-	106	-	107	-		
250	256.69	6	58.5	38	106	-	105	-	106	-		
280	280.47	5	58.5	35	101	-	100	-	101	-		
315	318.66	5	58.5	31	99	-	98	-	99	-		
355	363.03	4	58.5	27	95	-	93	-	94	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W10 P - 1500 rpm

W10 - n1 = 1500 rpm												67 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.03	214	57	1314	308	491	262	365	246	384	2	(M1) 61 (M5) 61 (M4) 61
8	8.10	185	62	1239	290	462	248	346	236	369		
9	8.72	172	62	1151	296	472	263	367	255	397		
10	10.06	149	67	1078	278	442	247	345	241	376		
11.2	11.2	134	67	969	283	450	260	362	256	400		
12.5	12.92	116	67	840	265	422	243	339	241	375		
14	13.97	107	67	777	267	424	249	348	249	388		
16	16.11	93	67	674	251	399	234	327	234	364		
18	17.5	86	67	620	235	375	223	312	225	351		
20	20.18	74	67	538	223	355	211	295	212	331		
22.4	21.99	68	60.5	453	195	310	184	287	189	294	3	(M1) 61 (M5) 61 (M4) 61
25	25.35	59	67	435	184	292	174	271	178	278		
28	27.42	55	67	402	192	306	183	285	187	292		
31.5	31.62	47	67	349	184	292	174	271	178	278		
35.5	35.22	43	67	313	177	282	171	266	174	271		
40	40.62	37	67	271	170	270	163	255	166	259		
45	44.13	34	67	250	162	258	156	243	159	248		
50	50.89	29	67	217	156	248	149	233	153	238		
56	55.17	27	67	200	146	233	143	223	145	226		
63	63.62	24	67	173	140	224	137	214	139	217		
71	69.13	22	67	159	140	224	137	214	139	217		
80	79.71	19	67	138	140	224	137	214	139	217		
90	90.56	17	67	122	138	220	135	211	137	214		
100	103.17	15	67	107	132	210	130	202	131	204		
112	110.33	14	67	101	134	-	131	-	133	-	4	(M1) 61 (M5) 61 (M4) 61
125	127.22	12	67	88	129	-	126	-	128	-		
140	144.54	10	67	77	127	-	124	-	126	-		
160	160.52	9	67	70	123	-	120	-	122	-		
180	182.38	8	67	61	122	-	118	-	120	-		
200	199.27	8	67	56	116	-	113	-	115	-		
224	226.41	7	67	49	114	-	111	-	113	-		
250	253.77	6	67	44	110	-	109	-	110	-		
280	288.33	5	67	39	109	-	107	-	108	-		
315	315.04	5	67	36	104	-	102	-	103	-		
355	357.94	4	67	31	102	-	101	-	101	-		
400	407.78	4	67	27	97	-	96	-	97	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W11 P - 1500 rpm

W11 - n1 = 1500 rpm											80 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.22	241	63	1641	(*)	(*)	(*)	(*)	(*)	(*)	2	(M1) 62 (M5) 62 (M4) 62
7.1	7.19	209	66	1487	(*)	(*)	(*)	(*)	(*)	(*)		
8	7.76	193	68	1420	382	608	322	450	305	475		
9	8.97	167	71	1281	358	569	302	421	287	447		
10	9.86	152	73.5	1207	371	591	327	457	317	495		
11.2	11.41	132	76.5	1086	347	553	305	426	296	461		
12.5	12.55	120	80	1032	355	565	323	450	318	496		
14	14.52	103	80	892	333	529	302	421	297	463		
16	15.36	98	80	843	322	513	299	418	299	466		
18	17.77	84	80	729	304	484	282	393	281	438		
20	19.36	77	74	629	239	381	218	340	228	355	3	(M1) 62 (M5) 62 (M4) 62
22.4	22.39	67	80	588	229	364	207	322	217	338		
25	24.64	61	80	534	239	381	218	340	228	355		
28	28.50	53	80	462	229	364	207	322	217	338		
31.5	31.38	48	80	419	229	364	213	333	221	344		
35.5	36.29	41	80	363	219	349	203	316	211	329		
40	38.41	39	80	343	211	335	196	305	203	317		
45	44.42	34	80	296	202	321	186	291	194	303		
50	49.46	30	80	266	183	292	176	275	180	281		
56	57.21	26	80	230	177	281	169	264	173	270		
63	60.55	25	80	217	177	281	169	264	173	270		
71	70.03	21	80	188	177	281	169	264	173	270		
80	80.39	19	80	164	168	268	161	251	165	257		
90	92.39	16	80	142	164	261	158	246	161	251		
100	96.02	16	80	139	177	-	169	-	174	-	4	(M1) 62 (M5) 62 (M4) 62
112	111.06	14	80	120	170	-	162	-	167	-		
125	127.48	12	80	105	162	-	154	-	159	-		
140	139.07	11	80	96	160	-	153	-	158	-		
160	159.63	9	80	84	153	-	145	-	150	-		
180	175.08	9	80	76	146	-	139	-	144	-		
200	200.97	7	80	67	139	-	132	-	137	-		
224	219.24	7	80	61	144	-	140	-	143	-		
250	251.65	6	80	53	137	-	133	-	136	-		
280	276.02	5	80	48	131	-	128	-	130	-		
315	316.82	5	80	42	125	-	121	-	124	-		
355	364.11	4	80	37	121	-	117	-	120	-		

Notes: (*) = consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W12 P - 1500 rpm

W12- n1 = 1500 rpm											92 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.00	214	71	1642	(*)	(*)	(*)	(*)	(*)	(*)	2	(M1) 63 (M5) 63 (M4) 63
8	8.08	186	74	1484	(*)	(*)	(*)	(*)	(*)	(*)		
9	8.74	172	46	852	392	624	330	461	311	485		
10	10.08	149	79	1269	367	584	309	432	293	457		
11.2	11.11	135	83	1210	382	608	336	469	325	507		
12.5	12.81	117	86	1087	357	568	314	438	304	474		
14	14.14	106	90	1031	365	581	332	463	327	510		
16	16.31	92	92	914	342	544	310	433	305	476		
18	17.31	87	92	861	332	528	308	430	307	479		
20	19.96	75	92	746	313	498	290	404	289	450		
22.4	21.81	69	85	641	244	389	221	345	232	362	3	(M1) 63 (M5) 63 (M4) 63
25	25.15	60	92	602	232	369	210	327	220	343		
28	27.76	54	92	545	243	386	221	345	231	360		
31.5	32.01	47	92	473	232	369	210	327	220	343		
35.5	35.35	42	92	428	232	369	217	338	224	349		
40	40.77	37	92	371	222	353	206	321	214	333		
45	43.27	35	92	350	214	340	199	310	206	322		
50	49.90	30	92	303	205	326	189	295	197	307		
56	55.73	27	92	272	186	296	179	279	183	285		
63	64.27	23	92	235	179	285	171	267	175	274		
71	68.22	22	92	222	179	285	171	267	175	274		
80	78.67	19	92	192	179	285	171	267	175	274		
90	90.30	17	92	168	171	272	163	254	167	261		
100	103.78	14	79.5	126	166	264	160	250	163	255		
112	108.19	14	91	141	179	-	172	-	176	-	4	(M1) 63 (M5) 63 (M4) 63
125	124.75	12	92	123	172	-	165	-	169	-		
140	143.20	10	92	107	164	-	156	-	161	-		
160	156.21	10	92	98	162	-	155	-	160	-		
180	179.31	8	92	86	155	-	147	-	152	-		
200	196.67	8	92	78	148	-	141	-	146	-		
224	225.75	7	92	68	141	-	134	-	139	-		
250	246.26	6	92	62	146	-	142	-	145	-		
280	282.68	5	92	54	139	-	135	-	138	-		
315	310.04	5	92	50	133	-	129	-	132	-		
355	355.89	4	92	43	127	-	123	-	126	-		
400	409.00	4	92	38	123	-	119	-	122	-		

Notes: **(*) =** consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W13 P - 1500 rpm

W13 - n1 = 1500 rpm												115 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.29	239	96	2473	(*)	(*)	(*)	(*)	(*)	(*)	2	(M1) 64 (M5) 64 (M4) 64
7.1	7.27	206	100	2227	(*)	(*)	(*)	(*)	(*)	(*)		
8	7.75	194	103	2153	(*)	(*)	(*)	(*)	(*)	(*)		
9	8.96	167	107	1933	(*)	(*)	(*)	(*)	(*)	(*)		
10	9.86	152	112	1839	460	732	391	546	371.77	579.80		
11.2	11.41	132	115	1633	429	683	363	507	345.01	538.07		
12.5	12.43	121	115	1499	447	712	394	551	382	595		
14	14.37	104	115	1296	418	665	367	512	355	553		
16	15.56	96	115	1197	430	684	390	545	384	599		
18	18.00	83	115	1035	403	641	364	509	358	558		
20	19.36	77	96	816	294	468	249	388	269	419	3	(M1) 64 (M5) 64 (M4) 64
22.4	22.39	67	110	808	278	442	237	370	255	398		
25	24.39	62	115	776	291	463	253	395	270	421		
28	28.21	53	115	670	277	441	238	372	256	399		
31.5	31.31	48	115	604	280	445	252	393	265	413		
35.5	36.22	41	115	522	267	425	238	371	252	392		
40	39.21	38	115	482	265	422	237	370	251	392		
45	45.35	33	115	417	253	402	224	349	238	371		
50	48.92	31	115	387	232	370	218	339	225	351		
56	56.59	27	115	334	222	354	207	323	215	335		
63	61.26	24	115	309	222	354	207	323	215	335		
71	70.86	21	115	267	222	354	207	323	215	335		
80	79.84	19	115	237	212	338	197	307	205	320		
90	90.72	17	115	209	207	330	195	305	202	315		
100	98.87	15	115	194	226	-	211	-	220	-	4	(M1) 64 (M5) 64 (M4) 64
112	114.36	13	115	168	217	-	201	-	211	-		
125	128.86	12	115	149	207	-	191	-	201	-		
140	142.63	11	115	135	205	-	188	-	198	-		
160	160.71	9	115	120	195	-	179	-	189	-		
180	178.69	8	115	108	186	-	171	-	181	-		
200	201.35	7	115	95	178	-	162	-	172	-		
224	223.41	7	115	86	184	-	176	-	181	-		
250	251.73	6	115	76	176	-	168	-	173	-		
280	279.90	5	115	69	167	-	160	-	165	-		
315	315.38	5	115	61	160	-	152	-	157	-		
355	358.33	4	115	54	155	-	147	-	152	-		

Notes: (*) = consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W14 P - 1500 rpm

W14 - n1 = 1500 rpm												132 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.08	212	108	2469	(*)	(*)	(*)	(*)	(*)	(*)	2	(M1) 65 (M5) 65 (M4) 65
8	8.17	184	112	2221	(*)	(*)	(*)	(*)	(*)	(*)		
9	8.73	172	116	2152	(*)	(*)	(*)	(*)	(*)	(*)		
10	10.07	149	121	1946	(*)	(*)	(*)	(*)	(*)	(*)		
11.2	11.11	135	126	1836	468	745	399	556	378.09	589.66		
12.5	12.81	117	130	1643	440	700	373	520	353.62	551.50		
14	14	107	132	1527	456	726	402	561	389	607		
16	16.14	93	132	1324	429	683	377	526	364	568		
18	17.53	86	132	1219	438	698	398	556	392	611		
20	20.22	74	132	1057	413	658	374	522	368	573		
22.4	21.81	69	108	814	294	468	256	400	273	426	3	(M1) 65 (M5) 65 (M4) 65
25	25.15	60	125	817	281	448	242	378	260	405		
28	27.48	55	132	790	294	468	256	400	273	426		
31.5	31.69	47	132	685	281	448	242	378	260	405		
35.5	35.28	43	132	615	282	449	255	397	268	417		
40	40.68	37	132	534	271	431	242	377	255	398		
45	44.18	34	132	491	268	427	240	374	254	396		
50	50.94	29	132	426	257	409	227	355	242	377		
56	55.13	27	132	394	234	373	220	343	228	355		
63	63.57	24	132	342	226	359	210	328	218	341		
71	69.03	22	132	315	226	359	210	328	218	341		
80	79.60	19	132	273	226	359	210	328	218	341		
90	89.69	17	132	242	215	343	200	312	208	325		
100	101.90	15	132	213	211	335	199	310	205	320		
112	111.40	13	132	198	229	-	213	-	223	-	4	(M1) 65 (M5) 65 (M4) 65
125	128.46	12	132	172	220	-	204	-	214	-		
140	144.75	10	132	152	210	-	194	-	204	-		
160	160.22	9	132	138	208	-	191	-	201	-		
180	180.52	8	132	122	198	-	182	-	192	-		
200	200.72	7	132	110	189	-	173	-	183	-		
224	226.17	7	132	98	181	-	165	-	175	-		
250	250.96	6	132	88	187	-	179	-	184	-		
280	282.77	5	132	78	178	-	170	-	175	-		
315	314.41	5	132	70	170	-	162	-	167	-		
355	354.27	4	132	62	162	-	154	-	160	-		
400	402.51	4	132	55	157	-	149	-	155	-		

Notes: **(*) =** consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W15 P - 1500 rpm

W15 - n1 = 1500 rpm												158 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.21	242	118	3077	(*)	(*)	(*)	(*)	(*)	(*)	2	(M1) 66 (M5) 66 (M4) 66
7.1	7.25	207	130	2904	(*)	(*)	(*)	(*)	(*)	(*)		
8	8.03	187	130	2620	(*)	(*)	(*)	(*)	(*)	(*)		
9	9.38	160	134	2314	(*)	(*)	(*)	(*)	(*)	(*)		
10	9.85	152	134	2202	505	804	414	578	384.19	599.17		
11.2	11.50	130	144	2028	470	748	387	539	361.26	563.41		
12.5	12.41	121	144	1878	496	790	428	598	409	638		
14	14.49	104	154	1721	461	734	398	556	382	595		
16	15.53	97	154	1606	461	733	415	579	406	633		
18	18.13	83	158	1411	430	685	386	539	378	589		
20	19.34	78	128	1089	342	544	295	460	314	490	3	(M1) 66 (M5) 66 (M4) 66
22.4	22.57	66	141	1027	322	513	279	435	297	463		
25	24.37	62	153	1033	337	537	298	465	315	491		
28	28.44	53	158	914	320	509	281	438	297	464		
31.5	31.29	48	158	831	323	515	296	462	308	481		
35.5	36.51	41	158	712	308	490	280	436	292	456		
40	39.14	38	158	664	298	475	273	426	285	445		
45	45.69	33	158	569	285	453	258	403	271	423		
50	48.88	31	158	532	261	415	248	387	255	397		
56	57.05	26	158	455	250	398	237	369	243	380		
63	61.16	25	158	425	250	398	237	369	243	380		
71	71.38	21	158	364	250	398	237	369	243	380		
80	80.50	19	158	323	243	387	229	358	237	369		
90	91.46	16	158	284	237	378	227	354	232	362		
100	98.71	15	158	267	252	-	240	-	247	-	4	(M1) 66 (M5) 66 (M4) 66
112	115.21	13	158	229	242	-	229	-	237	-		
125	129.92	12	158	203	235	-	221	-	230	-		
140	143.68	10	158	184	229	-	215	-	224	-		
160	162.03	9	158	163	222	-	208	-	217	-		
180	180.01	8	158	147	208	-	196	-	204	-		
200	203	7	158	130	203	-	190	-	198	-		
224	225.06	7	158	117	206	-	200	-	204	-		
250	253.80	6	158	104	200	-	194	-	198	-		
280	281.97	5	158	94	188	-	182	-	186	-		
315	317.98	5	158	83	183	-	176	-	181	-		
355	361.27	4	158	73	178	-	171	-	176	-		

Notes: (*) = consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W16 P - 1500 rpm

W16 - n1 = 1500 rpm												178 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	6.95	216	138	3215	(*)	(*)	(*)	(*)	(*)	(*)	2	(M1) 67 (M5) 67 (M4) 67
8	8.09	185	154	3083	(*)	(*)	(*)	(*)	(*)	(*)		
9	8.99	167	146	2629	(*)	(*)	(*)	(*)	(*)	(*)		
10	10.46	143	150	2321	(*)	(*)	(*)	(*)	(*)	(*)		
11.2	11.03	136	150	2202	477	824	417	583	386.44	602.67		
12.5	12.83	117	162	2044	446	771	391	545	364.87	569.03		
14	13.90	108	162	1888	481	832	433	605	413	644		
16	16.17	93	172	1723	447	774	403	562	386	601		
18	17.39	86	172	1602	457	791	420	586	410	640		
20	20.23	74	178	1425	426	737	391	546	382	596		
22.4	21.65	69	140	1064	347	552	298	465	318	496	3	(M1) 67 (M5) 67 (M4) 67
25	25.19	60	158	1032	326	519	282	440	301	469		
28	27.28	55	172	1037	342	544	302	471	319	497		
31.5	31.74	47	178	922	323	515	284	444	301	469		
35.5	35.02	43	178	836	327	521	300	468	312	487		
40	40.75	37	178	718	311	496	283	442	296	461		
45	43.82	34	178	668	302	481	277	432	289	451		
50	50.98	29	178	574	288	458	262	408	274	428		
56	54.72	27	178	535	264	420	252	392	258	402		
63	63.67	24	178	460	254	405	241	376	248	386		
71	68.46	22	178	428	254	405	241	376	248	386		
80	79.66	19	178	368	254	405	241	376	248	386		
90	89.83	17	178	326	247	394	234	364	241	375		
100	102.07	15	178	287	240	382	230	358	235	367		
112	110.49	14	178	269	256	-	243	-	251	-	4	(M1) 67 (M5) 67 (M4) 67
125	128.57	12	178	231	245	-	232	-	239	-		
140	144.98	10	178	205	238	-	224	-	233	-		
160	160.34	9	178	186	231	-	218	-	226	-		
180	180.82	8	178	165	225	-	211	-	220	-		
200	200.88	7	178	148	211	-	198	-	206	-		
224	226.54	7	178	131	205	-	192	-	201	-		
250	251.16	6	178	118	209	-	202	-	206	-		
280	283.23	5	178	105	203	-	196	-	201	-		
315	314.66	5	178	95	190	-	184	-	188	-		
355	354.84	4	178	84	185	-	179	-	183	-		
400	403.16	4	178	74	180	-	173	-	178	-		

Notes: **(*) =** consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W01 P - 1200 rpm

W01 - n1 = 1200 rpm												7.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.18	194	5.0	102	76	110	75	104	75	105	2	(M1) 68 (M5) 68 (M4) 68
7.1	7.15	168	5.8	102	72	103	70	97	71	98		
8.0	7.74	155	6.25	102	72	104	71	98	71	99		
9.0	8.95	134	7.25	102	67	97	66	92	67	93		
10.0	9.86	122	7.5	96	68	98	67	93	67	94		
11.2	11.41	105	7.5	83	64	92	63	88	63	88		
12.5	12.55	96	7.5	75	64	92	63	88	63	88		
14.0	14.52	83	7.5	65	60	86	59	83	59	83		
16.0	15.59	77	7.5	60	58	83	57	80	57	80		
18.0	18.03	67	7.5	52	54	78	54	75	54	76		
20.0	19.38	62	7.5	49	45	66	45	63	45	63	3	(M1) 68 (M5) 68 (M4) 68
22.4	22.42	54	7.5	42	43	63	43	60	43	60		
25.0	24.67	49	7.5	38	43	63	43	60	43	60		
28.0	28.53	42	7.5	33	41	60	41	57	41	58		
31.5	31.13	39	7.5	30	40	58	40	56	40	56		
35.5	36.00	33	7.5	26	39	56	38	54	39	54		
40.0	38.66	31	7.5	24	38	54	37	52	37	52		
45.0	44.72	27	7.5	21	36	52	36	50	36	50		
50.0	49.57	24	7.5	19	35	51	35	49	35	49		
56.0	57.34	21	7.5	16	34	49	34	47	34	47		
63.0	61.58	19	7.5	15	33	47	33	46	33	46		
71.0	71.23	17	7.5	13	32	45	31	44	31	44		
80.0	80.62	15	7.5	12	30	43	30	42	30	42		
90.0	91.85	13	7.5	10	29	41	29	40	29	40		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W02 P - 1200 rpm

W02 - n1 = 1200 rpm												9.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8.0	7.75	155	6.25	101	81	117	79	110	80	111	2	(M1) 69 (M5) 69 (M4) 69
9.0	8.91	135	7.2	102	76	110	74	103	75	104		
10.0	9.70	124	7.85	102	76	110	75	104	75	105		
11.2	11.16	108	9	101	71	103	70	98	71	99		
12.5	12.36	97	9.5	97	72	104	71	99	71	100		
14.0	14.22	84	9.5	84	67	97	66	93	67	93		
16.0	15.73	76	9.5	76	67	97	67	93	67	94		
18.0	18.10	66	9.5	66	63	91	63	87	63	88		
20.0	19.54	61	9.5	61	61	88	61	85	61	85		
22.4	22.48	53	9.5	53	57	83	57	80	57	80		
25.0	24.30	49	9.5	49	50	72	50	69	50	69	3	(M1) 69 (M5) 69 (M4) 69
28.0	27.95	43	9.5	43	48	69	47	66	47	66		
31.5	30.92	39	9.5	39	48	69	47	66	47	66		
35.5	35.57	34	9.5	34	45	65	45	63	45	63		
40.0	39.02	31	9.5	31	44	64	44	61	44	61		
45.0	44.88	27	9.5	27	42	61	42	59	42	59		
50.0	48.46	25	9.5	25	41	59	41	57	41	57		
56.0	55.75	22	9.5	21	39	57	39	55	39	55		
63.0	62.14	19	9.5	19	39	56	39	54	39	54		
71.0	71.48	17	9.5	17	37	53	37	51	37	51		
80.0	77.19	16	9.5	15	36	52	36	50	36	50		
90.0	88.79	14	9.5	13	34	50	34	48	34	48		
100.0	100.50	12	9.5	12	35	50	35	48	35	48		
112.0	114.50	10	9.5	10	31	45	31	44	31	44		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W03 P - 1200 rpm

W03 - n1 = 1200 rpm												13 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.22	193	10.9	220	107	155	103	144	105	147	2	(M1) 70 (M5) 70 (M4) 70
7.1	7.19	167	11.4	199	100	144	96	134	98	136		
8	7.74	155	11.7	190	102	147	99	138	100	140		
9	8.95	134	12.2	171	95	137	92	129	94	131		
10	9.86	122	12.7	162	95	137	93	130	94	131		
11.2	11.41	105	13	143	89	128	87	121	88	123		
12.5	12.55	96	13	130	87	125	86	120	86	120		
14	14.52	83	13	113	82	118	80	112	81	113		
16	15.55	77	13	105	79	114	78	109	78	109		
18	17.98	67	13	91	74	107	73	103	74	103		
20	19.36	62	10.9	71	63	91	63	88	63	88	3	(M1) 70 (M5) 70 (M4) 70
22.4	22.39	54	12.7	71	60	87	60	84	60	84		
25	24.64	49	13	66	59	86	59	82	59	83		
28	28.50	42	13	57	57	82	56	78	56	79		
31.5	31.10	39	13	53	56	80	55	77	56	78		
35.5	35.98	33	13	45	53	77	53	74	53	74		
40	38.53	31	13	42	52	75	51	72	52	72		
45	44.56	27	13	37	50	71	49	69	49	69		
50	49.50	24	13	33	48	70	48	67	48	67		
56	57.26	21	13	29	46	67	46	65	46	65		
63	61.32	20	13	27	45	65	45	63	45	63		
71	70.93	17	13	23	43	62	43	60	43	60		
80	80.98	15	13	20	43	62	43	60	43	60		
90	91.90	13	13	18	42	61	42	59	42	59		
100	97.09	12	13	17	43	-	43	-	43	-	4	(M1) 70 (M5) 70 (M4) 70
112	112.30	11	13	15	41	-	41	-	41	-		
125	128.22	9	13	13	41	-	40	-	41	-		
140	143.49	8	13	11	39	-	39	-	39	-		
160	163.84	7	13	10	39	-	39	-	39	-		
180	178.74	7	13	9	36	-	36	-	36	-		
200	204.08	6	13	8	35	-	35	-	35	-		
224	225.06	5	13	7	35	-	35	-	35	-		
250	256.97	5	13	6	35	-	35	-	35	-		
280	280.33	4	13	6	32	-	32	-	32	-		
315	320.08	4	13	5	32	-	32	-	32	-		
355	363.23	3	13	4	31	-	31	-	31	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W04 P - 1200 rpm

W04 - n1 = 1200 rpm												16.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8	7.79	154	13.6	219	120	174	115	161	117	164	2	(M1) 71 (M5) 71 (M4) 71
9	8.96	134	14.2	199	112	161	107	150	109	152		
10	9.70	124	14.6	189	114	165	111	155	112	157		
11.2	11.16	108	15.2	171	106	153	103	144	105	146		
12.5	12.36	97	15.9	162	107	154	104	146	105	147		
14	14.22	84	16.5	146	99	143	97	136	98	137		
16	15.73	76	16.5	132	97	140	96	134	97	135		
18	18.10	66	16.5	115	91	131	90	125	90	126		
20	19.49	62	16.5	106	88	127	87	122	88	122		
22.4	22.42	54	16.5	93	83	119	82	114	82	115		
25	24.26	49	13.75	71	68	99	68	95	68	95	3	(M1) 71 (M5) 71 (M4) 71
28	27.91	43	15.8	71	65	94	65	90	65	91		
31.5	30.88	39	16.5	67	64	93	64	89	64	89		
35.5	35.52	34	16.5	58	61	88	61	84	61	85		
40	38.99	31	16.5	53	60	87	60	83	60	84		
45	44.85	27	16.5	46	57	83	57	79	57	80		
50	48.29	25	16.5	43	56	81	56	77	56	78		
56	55.55	22	16.5	37	53	77	53	74	53	74		
63	62.06	19	16.5	33	52	75	52	73	52	73		
71	71.38	17	16.5	29	50	72	50	69	50	70		
80	76.87	16	16.5	27	49	70	49	68	49	68		
90	88.42	14	16.5	23	47	67	46	65	47	65		
100	100.95	12	16.5	21	46	67	46	64	46	64		
112	114.56	10	16.25	18	46	66	45	63	46	64		
125	121.70	10	16.5	17	46	-	46	-	46	-	4	(M1) 71 (M5) 71 (M4) 71
140	139.99	9	16.5	15	44	-	44	-	44	-		
160	159.84	8	16.5	13	44	-	44	-	44	-		
180	178.88	7	16.5	12	42	-	42	-	42	-		
200	204.24	6	16.5	10	42	-	41	-	42	-		
224	222.81	5	16.5	9	38	-	38	-	38	-		
250	254.40	5	16.5	8	38	-	38	-	38	-		
280	280.55	4	16.5	7	38	-	38	-	38	-		
315	320.33	4	16.5	6	37	-	37	-	37	-		
355	349.46	3	16.5	6	35	-	34	-	34	-		
400	399.01	3	16.5	5	34	-	34	-	34	-		
450	452.79	3	16.5	5	34	-	33	-	34	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W05 P - 1200 rpm

W05 - n1 = 1200 rpm												22 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.23	192	18	374	171	246	157	219	160	223	2	(M1) 72 (M5) 72 (M4) 72
7.1	7.21	166	19.5	350	159	229	147	205	150	209		
8	7.74	155	19.5	326	160	231	150	210	152	212		
9	8.96	134	20.5	297	149	215	141	197	143	200		
10	9.95	121	21	274	143	206	138	192	139	194		
11.2	11.51	104	22	248	134	193	129	180	130	182		
12.5	12.55	96	22	227	136	196	133	185	134	186		
14	14.52	83	22	196	128	185	125	175	126	176		
16	15.58	77	22	183	126	181	124	173	124	173		
18	18.02	67	22	158	119	171	117	163	117	164		
20	19.51	62	19	128	96	138	95	132	95	133	3	(M1) 72 (M5) 72 (M4) 72
22.4	22.57	53	22	128	92	132	91	126	91	127		
25	24.62	49	22	118	96	138	95	132	95	133		
28	28.48	42	22	102	91	132	91	126	91	127		
31.5	31.38	38	22	92	91	131	90	125	90	126		
35.5	36.29	33	22	80	87	125	86	120	86	121		
40	38.95	31	22	74	86	124	85	119	85	119		
45	45.05	27	22	64	82	119	81	114	82	114		
50	49.60	24	22	58	79	114	78	109	79	110		
56	57.38	21	22	50	72	104	71	100	72	100		
63	61.58	19	22	47	72	104	71	100	72	100		
71	71.23	17	22	41	72	104	71	100	72	100		
80	81.15	15	22	36	72	104	71	100	72	100		
90	91.85	13	22	32	65	94	65	91	65	91		
100	96.60	12	22	30	71	-	71	-	71	-	4	(M1) 72 (M5) 72 (M4) 72
112	111.74	11	22	26	68	-	68	-	68	-		
125	127.29	9	22	23	65	-	65	-	65	-		
140	142.21	8	22	21	64	-	64	-	64	-		
160	162.01	7	22	18	61	-	61	-	61	-		
180	176.65	7	22	17	59	-	59	-	59	-		
200	201.25	6	22	15	57	-	56	-	57	-		
224	226.50	5	22	13	57	-	57	-	57	-		
250	258.04	5	22	11	55	-	55	-	55	-		
280	281.36	4	22	10	53	-	53	-	53	-		
315	320.53	4	22	9	51	-	51	-	51	-		
355	362.81	3	22	8	48	-	48	-	48	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W06 P - 1200 rpm

W06 - n1 = 1200 rpm												28 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8	7.82	154	24	398	191	276	176	246	179	249	2	(M1) 73 (M5) 73 (M4) 73
9	8.99	133	25.5	367	177	256	164	229	167	233		
10	9.71	124	25.5	340	178	257	169	236	171	239		
11.2	11.16	107	27	313	167	241	158	221	160	223		
12.5	12.47	96	28	291	160	230	154	215	155	217		
14	14.34	84	28	253	150	217	145	202	146	204		
16	15.73	76	28	231	153	221	149	209	150	210		
18	18.10	66	28	200	144	208	140	196	141	197		
20	19.53	61	28	186	142	204	139	194	140	195		
22.4	22.47	53	28	161	133	193	131	183	132	184		
25	24.46	49	24.9	134	105	151	103	144	104	145	3	(M1) 73 (M5) 73 (M4) 73
28	28.13	43	28	131	98	142	97	135	97	136		
31.5	30.86	39	28	119	103	148	101	142	102	142		
35.5	35.50	34	28	104	98	142	97	135	97	136		
40	39.33	31	28	94	97	140	96	134	97	135		
45	45.24	27	28	81	93	134	92	128	92	129		
50	48.83	25	28	75	92	133	91	127	92	128		
56	56.16	21	28	66	88	127	87	122	88	122		
63	62.18	19	28	59	80	116	80	111	80	112		
71	71.52	17	28	52	77	111	76	107	77	107		
80	77.19	16	28	48	77	111	76	107	77	107		
90	88.79	14	28	41	77	111	76	107	77	107		
100	101.16	12	28	36	73	106	73	102	73	102		
112	114.50	10	28	32	70	101	70	97	70	97		
125	121.09	10	28	31	76	-	76	-	76	-	4	(M1) 73 (M5) 73 (M4) 73
140	139.29	9	28	27	73	-	72	-	73	-		
160	158.68	8	28	24	69	-	69	-	69	-		
180	177.27	7	28	21	69	-	68	-	68	-		
200	201.96	6	28	19	65	-	65	-	65	-		
224	220.21	5	28	17	64	-	63	-	63	-		
250	250.87	5	28	15	61	-	60	-	61	-		
280	282.35	4	28	13	61	-	61	-	61	-		
315	321.67	4	28	12	59	-	58	-	59	-		
355	350.73	3	28	11	57	-	57	-	57	-		
400	399.57	3	28	9	54	-	54	-	54	-		
450	452.27	3	28	8	52	-	52	-	52	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W07 P - 1200 rpm

W07 - n1 = 1200 rpm												36 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.26	192	30	621	267	385	235	327	241	336	2	(M1) 74 (M5) 74 (M4) 74
7.1	7.24	166	31.5	564	248	358	220	308	226	315		
8	7.74	155	32	535	249	360	229	320	233	325		
9	8.96	134	33.5	485	233	337	215	299	219	305		
10	9.86	122	35	460	235	339	222	310	225	314		
11.2	11.41	105	36	409	221	319	208	290	211	295		
12.5	12.35	97	36	378	220	318	212	296	214	298		
14	14.28	84	36	327	207	299	199	278	201	281		
16	15.55	77	36	300	193	279	188	263	190	265		
18	17.98	67	36	259	183	264	178	249	179	250		
20	19.34	62	26	177	152	220	149	207	150	210	3	(M1) 74 (M5) 74 (M4) 74
22.4	22.37	54	30	176	144	208	141	197	143	199		
25	24.22	50	32.5	177	151	218	148	206	149	208		
28	28.02	43	36	169	144	208	141	197	143	199		
31.5	30.87	39	36	153	142	204	140	195	141	196		
35.5	35.71	34	36	133	136	196	133	186	135	188		
40	38.86	31	36	122	128	185	126	176	127	178		
45	44.95	27	36	105	123	178	121	169	122	171		
50	48.66	25	36	97	111	159	110	153	110	154		
56	56.29	21	36	84	107	154	106	147	106	148		
63	61.27	20	36	77	107	154	106	147	106	148		
71	70.87	17	36	67	107	154	106	147	106	148		
80	81.45	15	36	58	105	151	104	145	104	145		
90	92.99	13	36	51	102	148	102	142	102	142		
100	96.32	12	36	50	106	-	105	-	106	-	4	(M1) 74 (M5) 74 (M4) 74
112	111.41	11	36	43	102	-	101	-	102	-		
125	128.04	9	36	38	100	-	99	-	100	-		
140	141.79	8	36	34	95	-	94	-	95	-		
160	162.95	7	36	30	93	-	92	-	93	-		
180	175.63	7	36	27	88	-	87	-	88	-		
200	201.84	6	36	24	86	-	85	-	86	-		
224	225.68	5	36	21	85	-	85	-	85	-		
250	259.36	5	36	19	84	-	83	-	84	-		
280	279.54	4	36	17	79	-	79	-	79	-		
315	321.26	4	36	15	78	-	77	-	77	-		
355	366.81	3	36	13	76	-	75	-	76	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W08 P - 1200 rpm

W08 - n1 = 1200 rpm												46 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8	7.84	153	37.5	619	279	403	244	340	250	349	2	(M1) 75 (M5) 75 (M4) 75
9	9.02	133	39	560	260	375	229	320	235	328		
10	9.71	124	40.5	541	262	377	239	334	244	340		
11.2	11.16	107	42	487	244	353	224	313	228	319		
12.5	12.36	97	44	461	247	356	233	325	236	329		
14	14.22	84	45	410	231	334	218	304	221	308		
16	15.48	78	46	385	231	334	222	310	224	313		
18	17.80	67	46	335	217	314	208	291	211	294		
20	19.49	62	46	306	203	293	198	276	199	278		
22.4	22.42	54	46	266	192	277	187	261	188	262		
25	24.25	49	32.9	179	159	230	155	217	157	219	3	(M1) 75 (M5) 75 (M4) 75
28	27.89	43	37.8	178	158	227	154	215	155	217		
31.5	30.36	40	41	178	157	227	154	215	156	217		
35.5	34.92	34	46	173	150	217	147	205	148	207		
40	38.70	31	46	156	148	213	146	203	147	205		
45	44.51	27	46	136	141	204	139	194	140	196		
50	48.72	25	46	124	134	193	132	184	133	186		
56	56.04	21	46	108	128	185	126	176	127	178		
63	61.00	20	46	99	115	166	114	160	115	160		
71	70.17	17	46	86	111	160	110	153	110	154		
80	76.80	16	46	79	111	160	110	153	110	154		
90	88.34	14	46	69	111	160	110	153	110	154		
100	101.53	12	46	60	109	157	108	151	108	151		
112	115.92	10	46	52	107	154	106	148	106	148		
125	120.73	10	46	51	111	-	110	-	110	-	4	(M1) 75 (M5) 75 (M4) 75
140	138.88	9	46	44	106	-	105	-	106	-		
160	159.61	8	46	39	104	-	103	-	104	-		
180	176.75	7	46	35	99	-	98	-	98	-		
200	203.14	6	46	30	97	-	96	-	97	-		
224	218.94	5	46	28	92	-	91	-	91	-		
250	251.61	5	46	24	90	-	89	-	90	-		
280	281.33	4	46	22	89	-	88	-	89	-		
315	323.31	4	46	19	87	-	87	-	87	-		
355	348.46	3	46	18	82	-	82	-	82	-		
400	400.47	3	46	15	81	-	80	-	81	-		
450	457.26	3	46	13	79	-	78	-	79	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W09 P - 1200 rpm

W09 - n1 = 1200 rpm											58.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.23	192	50	1039	(*)	441	(*)	355	(*)	367	2	(M1) 76 (M5) 76 (M4) 76
7.1	7.21	166	55	988	(*)	412	(*)	336	(*)	348		
8	7.74	155	55	920	288	416	(*)	357	262	365		
9	8.96	134	58.5	846	270	389	(*)	335	246	343		
10	9.94	121	58.5	762	272	393	(*)	351	256	357		
11.2	11.50	104	58.5	659	256	369	236	329	240	335		
12.5	12.40	97	58.5	611	255	368	241	337	244	341		
14	14.34	84	58.5	529	240	347	227	316	230	321		
16	15.53	77	58.5	488	225	324	216	302	218	305		
18	17.96	67	58.5	422	213	307	204	285	207	288		
20	19.51	62	55	371	186	268	179	250	182	254	3	(M1) 76 (M5) 76 (M4) 76
22.4	22.57	53	58.5	341	176	254	170	237	172	241		
25	24.33	49	58.5	316	183	265	178	248	180	252		
28	28.15	43	58.5	273	176	254	170	237	172	241		
31.5	31.26	38	58.5	246	169	243	165	230	167	232		
35.5	36.16	33	58.5	213	162	234	158	220	160	223		
40	39.17	31	58.5	197	154	223	151	210	153	213		
45	45.30	26	58.5	170	149	214	145	202	147	205		
50	48.97	25	58.5	157	139	200	137	191	138	193		
56	56.64	21	58.5	136	134	193	132	184	133	186		
63	61.35	20	58.5	125	134	193	132	184	133	186		
71	70.96	17	58.5	108	134	193	132	184	133	186		
80	80.62	15	58.5	95	132	190	130	182	131	183		
90	91.85	13	58.5	84	126	182	124	174	125	175		
100	97.91	12	58.5	80	127	-	125	-	126	-	4	(M1) 76 (M5) 76 (M4) 76
112	113.26	11	58.5	69	123	-	121	-	122	-		
125	128.68	9	58.5	61	121	-	119	-	120	-		
140	142.90	8	58.5	55	117	-	115	-	116	-		
160	162.36	7	58.5	48	116	-	114	-	115	-		
180	177.40	7	58.5	44	110	-	108	-	109	-		
200	201.56	6	58.5	39	109	-	107	-	108	-		
224	225.92	5	58.5	35	105	-	104	-	105	-		
250	256.69	5	58.5	30	104	-	103	-	103	-		
280	280.47	4	58.5	28	99	-	98	-	98	-		
315	318.66	4	58.5	25	97	-	96	-	97	-		
355	363.03	3	58.5	22	93	-	92	-	92	-		

Notes: (*) = consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W10 P - 1200 rpm

W10 - n1 = 1200 rpm											67 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.03	171	57	1051	(*)	454	(*)	365	(*)	377	2	(M1) 77 (M5) 77 (M4) 77
8	8.10	148	62	992	(*)	425	(*)	346	(*)	358		
9	8.72	138	62	921	298	430	(*)	367	270	376		
10	10.06	119	67	863	278	401	(*)	345	254	354		
11.2	11.2	107	67	775	281	406	(*)	362	264	368		
12.5	12.92	93	67	672	264	381	243	339	248	346		
14	13.97	86	67	621	264	381	249	348	253	352		
16	16.11	75	67	539	248	358	234	327	237	331		
18	17.50	69	67	496	232	335	223	312	225	315		
20	20.18	59	67	430	220	317	211	295	213	297		
22.4	21.99	55	60.5	362	191	275	184	257	187	261	3	(M1) 77 (M5) 77 (M4) 77
25	25.35	47	67	348	180	260	174	243	177	247		
28	27.42	44	67	322	188	272	182	254	185	258		
31.5	31.62	38	67	279	180	260	174	243	177	247		
35.5	35.22	34	67	250	173	249	169	236	171	238		
40	40.62	30	67	217	166	239	162	226	164	229		
45	44.13	27	67	200	158	228	155	216	156	218		
50	50.89	24	67	173	152	220	148	207	150	210		
56	55.17	22	67	160	142	206	141	196	142	198		
63	63.62	19	67	139	137	198	135	189	136	190		
71	69.13	17	67	128	137	198	135	189	136	190		
80	79.71	15	67	111	137	198	135	189	136	190		
90	90.56	13	67	97	135	195	133	186	134	188		
100	103.17	12	67	85	129	186	127	178	128	179		
112	110.33	11	67	81	130	-	129	-	130	-	4	(M1) 77 (M5) 77 (M4) 77
125	127.22	9	67	70	126	-	124	-	125	-		
140	144.54	8	67	62	124	-	122	-	123	-		
160	160.52	7	67	56	120	-	118	-	119	-		
180	182.38	7	67	49	118	-	117	-	118	-		
200	199.27	6	67	45	113	-	111	-	112	-		
224	226.41	5	67	40	111	-	109	-	111	-		
250	253.77	5	67	35	108	-	107	-	107	-		
280	288.33	4	67	31	106	-	105	-	106	-		
315	315.04	4	67	28	101	-	100	-	101	-		
355	357.94	3	67	25	100	-	99	-	99	-		
400	407.78	3	67	22	95	-	94	-	95	-		

Notes: (*) = consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W11 P - 1200 rpm

W11 - n1 = 1200 rpm											80 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.22	193	63	1313	(*)	584	(*)	(*)	(*)	454	2	(M1) 78 (M5) 78 (M4) 78
7.1	7.19	167	66	1189	(*)	546	(*)	(*)	(*)	428		
8	7.76	155	68	1136	392	565	(*)	450	(*)	469		
9	8.97	134	71	1025	366	528	(*)	421	315	440		
10	9.86	122	73.5	966	375	541	(*)	457	338	471		
11.2	11.41	105	76.5	869	351	507	305	426	316	441		
12.5	12.55	96	80	826	355	511	323	450	330	461		
14	14.52	83	80	714	333	480	302	421	309	431		
16	15.36	78	80	675	320	461	299	418	304	425		
18	17.77	68	80	583	302	436	282	393	287	400		
20	19.36	62	74	503	236	341	223	311	229	320	3	(M1) 78 (M5) 78 (M4) 78
22.4	22.39	54	80	470	226	326	212	296	219	305		
25	24.64	49	80	427	236	341	222	310	229	319		
28	28.50	42	80	369	226	326	212	296	219	305		
31.5	31.38	38	80	336	225	325	215	300	220	307		
35.5	36.29	33	80	290	216	311	205	287	211	294		
40	38.41	31	80	274	207	299	198	276	203	283		
45	44.42	27	80	237	199	287	189	264	194	271		
50	49.46	24	80	213	180	259	175	244	177	248		
56	57.21	21	80	184	173	250	168	235	171	239		
63	60.55	20	80	174	173	250	168	235	171	239		
71	70.03	17	80	150	173	250	168	235	171	239		
80	80.39	15	80	131	165	238	160	224	163	228		
90	92.39	13	80	114	161	232	157	219	159	222		
100	96.02	12	80	111	172	-	167	-	170	-	4	(M1) 78 (M5) 78 (M4) 78
112	111.06	11	80	96	166	-	161	-	164	-		
125	127.48	9	80	84	158	-	153	-	156	-		
140	139.07	9	80	77	156	-	152	-	155	-		
160	159.63	8	80	67	149	-	144	-	147	-		
180	175.08	7	80	61	143	-	138	-	141	-		
200	200.97	6	80	53	136	-	132	-	135	-		
224	219.24	5	80	49	141	-	138	-	140	-		
250	251.65	5	80	42	134	-	132	-	133	-		
280	276.02	4	80	39	128	-	126	-	127	-		
315	316.82	4	80	34	122	-	120	-	122	-		
355	364.11	3	80	29	119	-	116	-	118	-		

Notes: **(*) =** consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W12 P - 1200 rpm

W12 - n1 = 1200 rpm											92 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.00	171	71	1313	(*)	598	(*)	(*)	(*)	462	2	(M1) 79 (M5) 79 (M4) 79
8	8.08	149	74	1187	(*)	560	(*)	(*)	(*)	437		
9	8.74	137	46	682	403	581	(*)	461	(*)	480		
10	10.08	119	79	1015	376	543	(*)	432	323	451		
11.2	11.11	108	83	968	387	558	(*)	469	347	484		
12.5	12.81	94	86	870	361	521	(*)	438	324	453		
14	14.14	85	90	824	365	526	332	463	340	474		
16	16.31	74	92	731	342	494	310	433	318	444		
18	17.31	69	92	689	329	474	308	430	313	437		
20	19.96	60	92	597	310	448	290	404	295	411		
22.4	21.81	55	85	513	242	349	227	317	234	326	3	(M1) 79 (M5) 79 (M4) 79
25	25.15	48	92	481	229	331	215	300	222	309		
28	27.76	43	92	436	239	345	226	315	232	324		
31.5	32.01	37	92	378	229	331	215	300	222	309		
35.5	35.35	34	92	342	228	329	218	305	223	311		
40	40.77	29	92	297	219	315	208	291	213	298		
45	43.27	28	92	280	210	303	201	280	206	287		
50	49.90	24	92	243	202	291	192	268	197	275		
56	55.73	22	92	217	182	263	178	248	180	251		
63	64.27	19	92	188	175	253	171	238	173	242		
71	68.22	18	92	177	175	253	171	238	173	242		
80	78.67	15	92	154	175	253	171	238	173	242		
90	90.30	13	92	134	167	241	163	227	165	231		
100	103.78	12	79.5	101	163	235	159	222	161	225		
112	108.19	11	91	112	174	-	170	-	172	-	4	(M1) 79 (M5) 79 (M4) 79
125	124.75	10	92	99	168	-	163	-	166	-		
140	143.20	8	92	86	160	-	155	-	158	-		
160	156.21	8	92	79	158	-	154	-	157	-		
180	179.31	7	92	69	151	-	146	-	149	-		
200	196.67	6	92	63	144	-	140	-	143	-		
224	225.75	5	92	54	138	-	133	-	136	-		
250	246.26	5	92	50	142	-	140	-	142	-		
280	282.68	4	92	44	136	-	133	-	135	-		
315	310.04	4	92	40	130	-	128	-	129	-		
355	355.89	3	92	35	124	-	122	-	123	-		
400	409.00	3	92	30	120	-	118	-	119	-		

Notes: (*) = consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W13 P - 1200 rpm

W13 - n1 = 1200 rpm												115 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.29	191	96	1978	513	740	361	504	386	539	2	(M1) 80 (M5) 80 (M4) 80
7.1	7.27	165	100	1782	478	690	339	473	363	507		
8	7.75	155	103	1722	504	727	385	538	408	569		
9	8.96	134	107	1547	469	676	360	503	382	533		
10	9.86	122	112	1471	472	682	391	546	409	570		
11.2	11.41	105	115	1306	442	637	363	507	380	531		
12.5	12.43	97	115	1199	454	654	394	551	408	570		
14	14.37	83	115	1037	425	613	367	512	381	531		
16	15.56	77	115	958	431	622	390	545	401	559		
18	18.00	67	115	828	405	584	364	509	375	523		
20	19.36	62	96	653	295	425	264	369	278	388	3	(M1) 80 (M5) 80 (M4) 80
22.4	22.39	54	110	646	278	401	251	350	263	367		
25	24.39	49	115	620	290	419	265	370	276	386		
28	28.21	43	115	536	277	400	251	350	263	367		
31.5	31.31	38	115	483	277	400	259	361	268	374		
35.5	36.22	33	115	418	265	382	246	343	255	356		
40	39.21	31	115	386	264	380	245	342	254	355		
45	45.35	26	115	334	252	363	232	324	242	338		
50	48.92	25	115	309	229	330	220	307	225	313		
56	56.59	21	115	267	220	317	210	293	215	300		
63	61.26	20	115	247	220	317	210	293	215	300		
71	70.86	17	115	214	220	317	210	293	215	300		
80	79.84	15	115	190	210	303	200	279	205	287		
90	90.72	13	115	167	205	295	197	275	201	281		
100	98.87	12	115	155	221	-	211	-	217	-	4	(M1) 80 (M5) 80 (M4) 80
112	114.36	10	115	134	212	-	202	-	208	-		
125	128.86	9	115	119	203	-	192	-	198	-		
140	142.63	8	115	108	200	-	190	-	196	-		
160	160.71	7	115	96	191	-	181	-	187	-		
180	178.69	7	115	86	182	-	172	-	179	-		
200	201.35	6	115	76	174	-	164	-	171	-		
224	223.41	5	115	69	180	-	175	-	178	-		
250	251.73	5	115	61	172	-	167	-	170	-		
280	279.90	4	115	55	164	-	159	-	162	-		
315	315.38	4	115	49	157	-	152	-	155	-		
355	358.33	3	115	43	152	-	147	-	150	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W14 P - 1200 rpm

W14 - n1 = 1200 rpm												132 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.08	169	108	1975	519	749	364	507	389	542	2	(M1) 81 (M5) 81 (M4) 81
8	8.17	147	112	1776	489	705	344	481	370	516		
9	8.73	137	116	1721	512	739	391	546	413	577		
10	10.07	119	121	1557	481	693	368	513	390	544		
11.2	11.11	108	126	1469	481	694	399	556	416	581		
12.5	12.81	94	130	1314	453	653	373	520	390	545		
14	14	86	132	1221	462	667	402	561	416	581		
16	16.14	74	132	1059	436	629	377	526	391	545		
18	17.53	68	132	975	440	634	398	556	408	570		
20	20.22	59	132	846	415	599	374	522	385	537		
22.4	21.81	55	108	652	293	422	268	374	279	390	3	(M1) 81 (M5) 81 (M4) 81
25	25.15	48	125	654	281	406	255	356	267	373		
28	27.48	44	132	632	293	422	268	374	279	390		
31.5	31.69	38	132	548	281	406	255	356	267	373		
35.5	35.28	34	132	492	280	403	262	365	270	377		
40	40.68	29	132	427	269	388	250	349	259	361		
45	44.18	27	132	393	266	384	248	346	257	359		
50	50.94	24	132	341	256	369	236	330	246	343		
56	55.13	22	132	315	231	333	222	310	227	316		
63	63.57	19	132	273	223	321	213	297	218	305		
71	69.03	17	132	252	223	321	213	297	218	305		
80	79.60	15	132	218	223	321	213	297	218	305		
90	89.69	13	132	194	213	307	203	284	208	291		
100	101.90	12	132	170	208	300	200	279	204	285		
112	111.40	11	132	158	223	-	214	-	219	-	4	(M1) 81 (M5) 81 (M4) 81
125	128.46	9	132	137	215	-	205	-	211	-		
140	144.75	8	132	122	205	-	195	-	201	-		
160	160.22	7	132	110	203	-	193	-	199	-		
180	180.52	7	132	98	194	-	183	-	190	-		
200	200.72	6	132	88	185	-	175	-	181	-		
224	226.17	5	132	78	177	-	167	-	173	-		
250	250.96	5	132	70	183	-	178	-	181	-		
280	282.77	4	132	62	174	-	169	-	173	-		
315	314.41	4	132	56	166	-	161	-	165	-		
355	354.27	3	132	50	159	-	154	-	157	-		
400	402.51	3	132	44	154	-	149	-	153	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W15 P - 1200 rpm

W15 - n1 = 1200 rpm												158 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.21	193	118	2462	(*)	(*)	(*)	(*)	(*)	(*)	2	(M1) 82 (M5) 82 (M4) 82
7.1	7.25	166	130	2323	(*)	(*)	(*)	(*)	(*)	(*)		
8	8.03	149	130	2096	533	769	388	541	414	578		
9	9.38	128	134	1851	495	714	360	502	386	539		
10	9.85	122	134	1762	530	765	414	578	438	611		
11.2	11.5	104	144	1622	491	709	387	539	409	571		
12.5	12.41	97	144	1503	509	735	428	598	447	623		
14	14.49	83	154	1377	472	681	398	556	416	580		
16	15.53	77	154	1284	464	669	415	579	427	595		
18	18.13	66	158	1129	434	626	386	539	398	556		
20	19.34	62	128	871	341	493	310	433	323	451	3	(M1) 82 (M5) 82 (M4) 82
22.4	22.57	53	141	822	322	464	293	408	305	426		
25	24.37	49	153	826	335	483	309	432	320	447		
28	28.44	42	158	731	318	459	292	408	303	423		
31.5	31.29	38	158	665	319	460	301	421	309	432		
35.5	36.51	33	158	569	304	439	286	399	294	411		
40	39.14	31	158	531	294	425	278	388	286	399		
45	45.69	26	158	455	281	406	264	369	273	381		
50	48.88	25	158	425	255	368	248	346	252	351		
56	57.05	21	158	364	245	354	237	331	241	337		
63	61.16	20	158	340	245	354	237	331	241	337		
71	71.38	17	158	291	245	354	237	331	241	337		
80	80.5	15	158	258	239	344	230	321	235	328		
90	91.46	13	158	227	233	336	226	316	230	321		
100	98.71	12	158	214	246	-	238	-	243	-	4	(M1) 82 (M5) 82 (M4) 82
112	115.21	10	158	183	236	-	227	-	232	-		
125	129.92	9	158	163	229	-	221	-	226	-		
140	143.68	8	158	147	223	-	214	-	220	-		
160	162.03	7	158	130	217	-	208	-	213	-		
180	180.01	7	158	117	203	-	195	-	200	-		
200	203	6	158	104	198	-	190	-	195	-		
224	225.06	5	158	94	201	-	197	-	200	-		
250	253.80	5	158	83	196	-	191	-	194	-		
280	281.97	4	158	75	183	-	180	-	182	-		
315	317.975	4	158	66	179	-	175	-	177	-		
355	361.27	3	158	58	174	-	169	-	172	-		

Notes: (*) = consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W16 P - 1200 rpm

W16 - n1 = 1200 rpm												178 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	6.95	173	138	2572	(*)	(*)	(*)	(*)	(*)	(*)	2	(M1) 83 (M5) 83 (M4) 83
8	8.09	148	154	2466	(*)	(*)	(*)	(*)	(*)	(*)		
9	8.99	133	146	2103	537	775	390	545	417	582		
10	10.46	115	150	1857	499	720	363	506	389	543		
11.2	11.03	109	150	1762	536	773	417	583	441	616		
12.5	12.83	94	162	1635	496	716	391	545	413	577		
14	13.90	86	162	1510	516	744	433	605	452	630		
16	16.17	74	172	1378	478	689	403	562	420	586		
18	17.39	69	172	1282	470	679	420	586	432	603		
20	20.23	59	178	1140	439	633	391	546	403	562		
22.4	21.65	55	140	851	347	500	314	438	328	457	3	(M1) 83 (M5) 83 (M4) 83
25	25.19	48	158	825	326	470	296	413	309	431		
28	27.28	44	172	830	339	490	313	437	324	453		
31.5	31.74	38	178	738	322	464	296	413	307	428		
35.5	35.02	34	178	669	323	466	305	426	313	437		
40	40.75	29	178	575	308	444	289	404	298	416		
45	43.82	27	178	535	298	430	282	394	290	405		
50	50.98	24	178	459	285	410	268	373	276	385		
56	54.72	22	178	428	259	373	251	350	255	356		
63	63.67	19	178	368	249	360	241	336	245	343		
71	68.46	18	178	342	249	360	241	336	245	343		
80	79.66	15	178	294	249	360	241	336	245	343		
90	89.83	13	178	261	243	350	234	327	239	333		
100	102.07	12	178	229	236	340	229	320	233	325		
112	110.49	11	178	215	249	-	241	-	246	-	4	(M1) 83 (M5) 83 (M4) 83
125	128.57	9	178	185	238	-	230	-	235	-		
140	144.98	8	178	164	232	-	223	-	228	-		
160	160.34	7	178	148	225	-	217	-	222	-		
180	180.82	7	178	132	219	-	211	-	216	-		
200	200.88	6	178	118	205	-	198	-	203	-		
224	226.54	5	178	105	200	-	192	-	197	-		
250	251.16	5	178	95	203	-	199	-	202	-		
280	283.23	4	178	84	198	-	194	-	196	-		
315	314.66	4	178	76	186	-	182	-	184	-		
355	354.84	3	178	67	181	-	177	-	179	-		
400	403.16	3	178	59	176	-	172	-	174	-		

Notes: **(*) =** consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W01 P - 1000 rpm

W01 - n1 = 1000 rpm												7.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.18	162	5.0	85	75	100	74	95	74	96	2	(M1) 84 (M5) 84 (M4) 84
7.1	7.15	140	5.8	85	70	94	69	89	70	90		
8.0	7.74	129	6.25	85	71	94	70	90	70	90		
9.0	8.95	112	7.25	85	66	88	65	84	66	85		
10.0	9.86	101	7.5	80	67	89	66	85	66	85		
11.2	11.41	88	7.5	69	62	83	62	80	62	80		
12.5	12.55	80	7.5	63	62	83	62	80	62	80		
14.0	14.52	69	7.5	54	59	78	58	75	58	75		
16.0	15.59	64	7.5	50	57	75	56	73	56	73		
18.0	18.03	55	7.5	44	53	71	53	69	53	69		
20.0	19.38	52	7.5	41	44	59	44	57	44	57	3	(M1) 84 (M5) 84 (M4) 84
22.4	22.42	45	7.5	35	42	57	42	55	42	55		
25.0	24.67	41	7.5	32	43	57	42	55	42	55		
28.0	28.53	35	7.5	28	41	54	40	52	41	52		
31.5	31.13	32	7.5	25	40	53	39	51	39	51		
35.5	36.00	28	7.5	22	38	50	38	49	38	49		
40.0	38.66	26	7.5	20	37	49	37	47	37	47		
45.0	44.72	22	7.5	18	35	47	35	45	35	45		
50.0	49.57	20	7.5	16	35	46	35	45	35	45		
56.0	57.34	17	7.5	14	33	44	33	43	33	43		
63.0	61.58	16	7.5	13	32	43	32	41	32	42		
71.0	71.23	14	7.5	11	31	41	31	40	31	40		
80.0	80.62	12	7.5	10	30	39	29	38	30	38		
90.0	91.85	11	7.5	9	28	38	28	36	28	36		

Note: when the fan is installed on the input flange, PT is reduced by 20%.

W02 P - 1000 rpm

W02 - n1 = 1000 rpm												9.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8.0	7.75	129	6.25	84	80	107	78	101	79	102	2	(M1) 85 (M5) 85 (M4) 85
9.0	8.91	112	7.2	85	75	100	73	94	74	95		
10.0	9.70	103	7.85	85	75	100	74	95	74	96		
11.2	11.16	90	9	84	70	94	69	89	70	90		
12.5	12.36	81	9.5	80	71	94	70	90	70	91		
14.0	14.22	70	9.5	70	66	88	65	84	66	85		
16.0	15.73	64	9.5	63	66	88	66	85	66	85		
18.0	18.10	55	9.5	55	62	83	62	79	62	80		
20.0	19.54	51	9.5	51	60	80	60	77	60	77		
22.4	22.48	44	9.5	44	56	75	56	72	56	73		
25.0	24.30	41	9.5	41	49	65	49	63	49	63	3	(M1) 85 (M5) 85 (M4) 85
28.0	27.95	36	9.5	36	47	62	46	60	46	60		
31.5	30.92	32	9.5	32	47	62	46	60	46	60		
35.5	35.57	28	9.5	28	44	59	44	57	44	57		
40.0	39.02	26	9.5	25	43	58	43	56	43	56		
45.0	44.88	22	9.5	22	41	55	41	53	41	53		
50.0	48.46	21	9.5	21	40	54	40	52	40	52		
56.0	55.75	18	9.5	18	38	51	38	49	38	49		
63.0	62.14	16	9.5	16	38	51	38	49	38	49		
71.0	71.48	14	9.5	14	36	48	36	47	36	47		
80.0	77.19	13	9.5	13	35	47	35	45	35	45		
90.0	88.79	11	9.5	11	34	45	34	43	34	43		
100.0	100.50	10	9.5	10	34	46	34	44	34	44		
112.0	114.50	9	9.5	9	31	41	31	40	31	40		

Note: when the fan is installed on the input flange, PT is reduced by 20%.

W03 P - 1000 rpm

W03 - n1 = 1000 rpm												13 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.22	161	10.9	184	106	141	103	133	104	134	2	(M1) 86 (M5) 86 (M4) 86
7.1	7.19	139	11.4	166	98	131	96	124	97	125		
8	7.74	129	11.7	158	100	134	98	127	99	128		
9	8.95	112	12.2	143	94	125	92	118	93	120		
10	9.86	101	12.7	135	93	125	92	119	93	120		
11.2	11.41	88	13	119	87	117	86	111	87	112		
12.5	12.55	80	13	108	85	114	85	109	85	110		
14	14.52	69	13	94	80	107	79	102	80	103		
16	15.55	64	13	88	77	103	77	99	77	99		
18	17.98	56	13	76	73	97	72	93	73	94		
20	19.36	52	10.9	59	62	83	62	80	62	80	3	(M1) 86 (M5) 86 (M4) 86
22.4	22.39	45	12.7	59	59	79	59	76	59	76		
25	24.64	41	13	55	58	78	58	75	58	75		
28	28.50	35	13	48	56	74	55	71	55	71		
31.5	31.10	32	13	44	55	73	54	70	54	70		
35.5	35.98	28	13	38	52	70	52	67	52	67		
40	38.53	26	13	35	51	68	50	65	51	65		
45	44.56	22	13	31	49	65	48	62	48	62		
50	49.50	20	13	27	47	63	47	61	47	61		
56	57.26	17	13	24	45	61	45	58	45	59		
63	61.32	16	13	22	44	59	44	57	44	57		
71	70.93	14	13	19	42	57	42	55	42	55		
80	80.98	12	13	17	42	56	42	54	42	54		
90	91.90	11	13	15	42	56	42	54	42	54		
100	97.09	10	13	14	42	-	42	-	42	-	4	(M1) 86 (M5) 86 (M4) 86
112	112.30	9	13	12	40	-	40	-	40	-		
125	128.22	8	13	11	40	-	40	-	40	-		
140	143.49	7	13	9	38	-	38	-	38	-		
160	163.84	6	13	8	38	-	38	-	38	-		
180	178.74	6	13	8	35	-	35	-	35	-		
200	204.08	5	13	7	35	-	35	-	35	-		
224	225.06	4	13	6	35	-	34	-	34	-		
250	256.97	4	13	5	34	-	34	-	34	-		
280	280.33	4	13	5	31	-	31	-	31	-		
315	320.08	3	13	4	31	-	31	-	31	-		
355	363.23	3	13	4	31	-	31	-	31	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20%.

W04 P - 1000 rpm

W04 - n1 = 1000 rpm												16.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8	7.79	128	13.6	183	119	158	115	149	117	150	2	(M1) 87 (M5) 87 (M4) 87
9	8.96	112	14.2	166	110	147	107	138	108	140		
10	9.70	103	14.6	158	113	150	110	142	111	144		
11.2	11.16	90	15.2	143	105	140	103	132	104	134		
12.5	12.36	81	15.9	135	105	140	103	133	104	134		
14	14.22	70	16.5	122	98	130	96	124	97	125		
16	15.73	64	16.5	110	96	128	95	122	95	123		
18	18.10	55	16.5	95	89	119	89	114	89	115		
20	19.49	51	16.5	89	86	115	86	111	86	111		
22.4	22.42	45	16.5	77	81	109	81	104	81	105		
25	24.26	41	13.75	59	67	89	67	86	67	86	3	(M1) 87 (M5) 87 (M4) 87
28	27.91	36	15.8	59	64	85	63	82	64	82		
31.5	30.88	32	16.5	56	63	84	62	80	63	81		
35.5	35.52	28	16.5	49	60	80	59	77	60	77		
40	38.99	26	16.5	44	59	78	59	76	59	76		
45	44.85	22	16.5	39	56	75	56	72	56	72		
50	48.29	21	16.5	36	55	73	54	70	55	70		
56	55.55	18	16.5	31	52	70	52	67	52	67		
63	62.06	16	16.5	28	51	68	51	66	51	66		
71	71.38	14	16.5	24	49	65	49	63	49	63		
80	76.87	13	16.5	22	48	64	48	61	48	61		
90	88.42	11	16.5	20	46	61	46	59	46	59		
100	100.95	10	16.5	17	45	60	45	58	45	58		
112	114.56	9	16.25	15	45	60	45	58	45	58		
125	121.70	8	16.5	14	45	-	45	-	45	-	4	(M1) 87 (M5) 87 (M4) 87
140	139.99	7	16.5	12	43	-	43	-	43	-		
160	159.84	6	16.5	11	43	-	43	-	43	-		
180	178.88	6	16.5	10	41	-	41	-	41	-		
200	204.24	5	16.5	8	41	-	41	-	41	-		
224	222.81	4	16.5	8	38	-	38	-	38	-		
250	254.40	4	16.5	7	37	-	37	-	37	-		
280	280.55	4	16.5	6	37	-	37	-	37	-		
315	320.33	3	16.5	5	37	-	37	-	37	-		
355	349.46	3	16.5	5	34	-	34	-	34	-		
400	399.01	3	16.5	4	33	-	33	-	33	-		
450	452.79	2	16.5	4	33	-	33	-	33	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20%.

W05 P - 1000 rpm

W05 - n1 = 1000 rpm												22 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.23	160	18	312	169	225	160	206	161	208	2	(M1) 88 (M5) 88 (M4) 88
7.1	7.21	139	19.5	292	157	210	149	192	151	194		
8	7.74	129	19.5	272	158	211	151	194	152	196		
9	8.96	112	20.5	247	147	196	142	183	143	184		
10	9.95	101	21	228	140	187	137	176	138	177		
11.2	11.51	87	22	206	131	175	128	165	129	166		
12.5	12.55	80	22	189	133	178	131	169	132	170		
14	14.52	69	22	164	126	168	124	160	124	160		
16	15.58	64	22	152	123	165	122	157	122	158		
18	18.02	55	22	132	117	156	115	149	116	149		
20	19.51	51	19	107	94	125	93	120	93	120	3	(M1) 88 (M5) 88 (M4) 88
22.4	22.57	44	22	107	90	120	89	115	89	115		
25	24.62	41	22	98	94	125	93	120	93	120		
28	28.48	35	22	85	93	124	89	115	89	115		
31.5	31.38	32	22	77	89	118	88	114	88	114		
35.5	36.29	28	22	66	85	113	84	109	85	109		
40	38.95	26	22	62	84	112	83	108	84	108		
45	45.05	22	22	54	80	107	80	103	80	103		
50	49.60	20	22	49	77	103	77	99	77	99		
56	57.38	17	22	42	70	94	70	90	70	91		
63	61.58	16	22	39	70	94	70	90	70	91		
71	71.23	14	22	34	70	94	70	90	70	91		
80	81.15	12	22	30	70	94	70	90	70	91		
90	91.85	11	22	26	64	86	64	82	64	83		
100	96.60	10	22	25	69	-	69	-	69	-	4	(M1) 88 (M5) 88 (M4) 88
112	111.74	9	22	22	67	-	66	-	67	-		
125	127.29	8	22	19	64	-	63	-	63	-		
140	142.21	7	22	17	63	-	63	-	63	-		
160	162.01	6	22	15	60	-	60	-	60	-		
180	176.65	6	22	14	58	-	58	-	58	-		
200	201.25	5	22	12	56	-	55	-	55	-		
224	226.50	4	22	11	56	-	56	-	56	-		
250	258.04	4	22	9	54	-	54	-	54	-		
280	281.36	4	22	9	52	-	52	-	52	-		
315	320.53	3	22	8	50	-	50	-	50	-		
355	362.81	3	22	7	48	-	47	-	47	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20%.

W06 P - 1000 rpm

W06 - n1 = 1000 rpm												28 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8	7.82	128	24	332	189	252	179	230	181	233	2	(M1) 89 (M5) 89 (M4) 89
9	8.99	111	25.5	306	175	234	166	214	168	216		
10	9.71	103	25.5	284	176	235	169	218	171	220		
11.2	11.16	90	27	261	164	219	158	204	160	206		
12.5	12.47	80	28	242	157	209	153	198	154	199		
14	14.34	70	28	211	148	197	144	186	145	187		
16	15.73	64	28	192	150	201	148	191	148	191		
18	18.10	55	28	167	141	189	139	179	140	180		
20	19.53	51	28	155	139	186	137	177	138	178		
22.4	22.47	45	28	135	131	175	130	167	130	167		
25	24.46	41	24.9	112	103	137	102	131	102	132	3	(M1) 89 (M5) 89 (M4) 89
28	28.13	36	28	109	96	128	95	123	96	123		
31.5	30.86	32	28	99	100	134	100	128	100	129		
35.5	35.50	28	28	86	96	128	95	123	96	123		
40	39.33	25	28	78	95	127	94	122	95	122		
45	45.24	22	28	68	91	121	90	116	91	117		
50	48.83	20	28	63	90	120	89	115	90	116		
56	56.16	18	28	55	86	115	86	110	86	111		
63	62.18	16	28	49	78	105	78	101	78	101		
71	71.52	14	28	43	75	100	75	97	75	97		
80	77.19	13	28	40	75	100	75	97	75	97		
90	88.79	11	28	35	75	100	75	97	75	97		
100	101.16	10	28	30	72	96	72	92	72	92		
112	114.50	9	28	27	69	91	68	88	68	88		
125	121.09	8	28	26	74	-	74	-	74	-	4	(M1) 89 (M5) 89 (M4) 89
140	139.29	7	28	22	71	-	71	-	71	-		
160	158.68	6	28	20	68	-	68	-	68	-		
180	177.27	6	28	18	67	-	67	-	67	-		
200	201.96	5	28	15	64	-	64	-	64	-		
224	220.21	5	28	14	62	-	62	-	62	-		
250	250.87	4	28	12	59	-	59	-	59	-		
280	282.35	4	28	11	60	-	60	-	60	-		
315	321.67	3	28	10	57	-	57	-	57	-		
355	350.73	3	28	9	56	-	56	-	56	-		
400	399.57	3	28	8	53	-	53	-	53	-		
450	452.27	2	28	7	51	-	51	-	51	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20%.

W07 P - 1000 rpm

W07 - n1 = 1000 rpm												36 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.26	160	30	518	266	354	242	313	247	318	2	(M1) 90 (M5) 90 (M4) 90
7.1	7.24	138	31.5	470	247	329	227	292	231	298		
8	7.74	129	32	446	246	329	232	300	235	303		
9	8.96	112	33.5	404	231	308	218	281	221	284		
10	9.86	101	35	383	232	310	223	287	225	290		
11.2	11.41	88	36	341	218	291	209	270	211	272		
12.5	12.35	81	36	315	217	290	211	272	212	274		
14	14.28	70	36	272	204	273	198	256	200	258		
16	15.55	64	36	250	190	254	187	241	187	242		
18	17.98	56	36	216	180	240	177	228	178	229		
20	19.34	52	26	147	149	199	147	189	148	191	3	(M1) 90 (M5) 90 (M4) 90
22.4	22.37	45	30	147	142	189	139	180	140	181		
25	24.22	41	32.5	147	148	197	146	188	147	189		
28	28.02	36	36	141	142	189	139	180	140	181		
31.5	30.87	32	36	128	139	185	137	177	138	178		
35.5	35.71	28	36	111	133	177	131	169	132	170		
40	38.86	26	36	102	126	168	124	160	125	161		
45	44.95	22	36	88	121	161	119	154	120	155		
50	48.66	21	36	81	108	144	108	139	108	139		
56	56.29	18	36	70	104	139	104	134	104	134		
63	61.27	16	36	64	104	139	104	134	104	134		
71	70.87	14	36	56	104	139	104	134	104	134		
80	81.45	12	36	48	103	137	102	131	102	132		
90	92.99	11	36	42	100	134	100	129	100	129		
100	96.32	10	36	42	104	-	103	-	104	-	4	(M1) 90 (M5) 90 (M4) 90
112	111.41	9	36	36	100	-	99	-	100	-		
125	128.04	8	36	31	98	-	97	-	98	-		
140	141.79	7	36	28	93	-	92	-	93	-		
160	162.95	6	36	25	91	-	91	-	91	-		
180	175.63	6	36	23	86	-	85	-	86	-		
200	201.84	5	36	20	85	-	84	-	84	-		
224	225.68	4	36	18	84	-	83	-	83	-		
250	259.36	4	36	15	82	-	82	-	82	-		
280	279.54	4	36	14	77	-	77	-	77	-		
315	321.26	3	36	12	76	-	76	-	76	-		
355	366.81	3	36	11	74	-	74	-	74	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20%.

W08 P - 1000 rpm

W08 - n1 = 1000 rpm												46 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8	7.84	128	37.5	516	279	372	253	326	258	332	2	(M1) 91 (M5) 91 (M4) 91
9	9.02	111	39	467	258	345	237	305	241	311		
10	9.71	103	40.5	450	259	346	244	314	247	318		
11.2	11.16	90	42	406	242	323	228	294	231	297		
12.5	12.36	81	44	384	243	325	234	301	236	304		
14	14.22	70	45	342	228	305	219	282	221	285		
16	15.48	65	46	321	228	304	222	286	223	288		
18	17.80	56	46	279	214	286	208	268	209	270		
20	19.49	51	46	255	200	266	196	253	197	254		
22.4	22.42	45	46	222	189	252	185	239	186	240		
25	24.25	41	32.9	149	156	208	153	198	155	199	3	(M1) 91 (M5) 91 (M4) 91
28	27.89	36	37.8	149	154	206	152	196	153	197		
31.5	30.36	33	41	148	154	206	152	196	153	197		
35.5	34.92	29	46	144	147	197	145	187	146	188		
40	38.70	26	46	130	145	193	143	185	144	186		
45	44.51	22	46	113	138	185	137	176	138	177		
50	48.72	21	46	104	131	175	130	167	131	168		
56	56.04	18	46	90	126	168	124	160	125	161		
63	61.00	16	46	83	113	151	112	145	113	145		
71	70.17	14	46	72	109	145	108	139	108	140		
80	76.80	13	46	66	109	145	108	139	108	140		
90	88.34	11	46	57	109	145	108	139	108	140		
100	101.53	10	46	50	107	142	106	137	106	137		
112	115.92	9	46	44	105	139	104	134	104	134		
125	120.73	8	46	42	108	-	108	-	108	-	4	(M1) 91 (M5) 91 (M4) 91
140	138.88	7	46	37	104	-	103	-	104	-		
160	159.61	6	46	32	102	-	101	-	102	-		
180	176.75	6	46	29	97	-	96	-	96	-		
200	203.14	5	46	25	95	-	94	-	95	-		
224	218.94	5	46	23	90	-	89	-	89	-		
250	251.61	4	46	20	88	-	87	-	88	-		
280	281.33	4	46	18	87	-	87	-	87	-		
315	323.31	3	46	16	86	-	85	-	85	-		
355	348.46	3	46	15	81	-	80	-	81	-		
400	400.47	2	46	13	79	-	79	-	79	-		
450	457.26	2	46	11	77	-	77	-	77	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20%.

W09 P - 1000 rpm

W09 - n1 = 1000 rpm												58.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.23	160	50	866	306	409	(*)	347	276	355	2	(M1) 92 (M5) 92 (M4) 92
7.1	7.21	139	55	823	286	381	(*)	326	259	334		
8	7.74	129	55	767	287	383	(*)	339	268	345		
9	8.96	112	58.5	705	268	357	(*)	318	251	324		
10	9.94	101	58.5	635	269	359	255	328	258	332		
11.2	11.50	87	58.5	549	253	338	239	308	242	312		
12.5	12.40	81	58.5	509	252	336	242	312	245	315		
14	14.34	70	58.5	440	237	317	228	294	230	297		
16	15.53	64	58.5	407	221	295	215	278	217	279		
18	17.96	56	58.5	352	210	280	204	263	205	265		
20	19.51	51	55	309	182	243	178	229	180	232	3	(M1) 92 (M5) 92 (M4) 92
22.4	22.57	44	58.5	284	172	230	168	217	170	219		
25	24.33	41	58.5	264	180	240	176	227	178	229		
28	28.15	36	58.5	228	172	230	168	217	170	219		
31.5	31.26	32	58.5	205	165	220	162	209	164	211		
35.5	36.16	28	58.5	177	159	212	156	201	157	203		
40	39.17	26	58.5	164	151	202	149	192	150	193		
45	45.30	22	58.5	142	146	194	143	184	144	186		
50	48.97	20	58.5	131	136	181	135	174	135	174		
56	56.64	18	58.5	113	131	175	130	167	130	168		
63	61.35	16	58.5	105	131	175	130	167	130	168		
71	70.96	14	58.5	90	131	175	130	167	130	168		
80	80.62	12	58.5	80	129	173	128	165	129	166		
90	91.85	11	58.5	70	123	164	122	158	123	158		
100	97.91	10	58.5	67	124	-	123	-	124	-	4	(M1) 92 (M5) 92 (M4) 92
112	113.26	9	58.5	58	120	-	119	-	119	-		
125	128.68	8	58.5	51	118	-	117	-	118	-		
140	142.90	7	58.5	46	114	-	113	-	114	-		
160	162.36	6	58.5	40	113	-	112	-	113	-		
180	177.40	6	58.5	37	108	-	106	-	107	-		
200	201.56	5	58.5	32	106	-	105	-	106	-		
224	225.92	4	58.5	29	103	-	102	-	103	-		
250	256.69	4	58.5	25	101	-	101	-	101	-		
280	280.47	4	58.5	23	97	-	96	-	96	-		
315	318.66	3	58.5	20	95	-	95	-	95	-		
355	363.03	3	58.5	18	91	-	90	-	91	-		

Notes: **(*) =** consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W10 P - 1000 rpm

W10 - n1 = 1000 rpm												67 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.03	142	57	876	316	422	(*)	357	284	366	2	(M1) 93 (M5) 93 (M4) 93
8	8.10	123	62	826	294	393	(*)	336	267	344		
9	8.72	115	62	767	297	396	(*)	350	276	356		
10	10.06	99	67	719	276	369	(*)	328	259	334		
11.2	11.2	89	67	646	278	371	263	339	266	343		
12.5	12.92	77	67	560	261	349	247	318	250	322		
14	13.97	72	67	518	261	348	250	323	253	326		
16	16.11	62	67	449	245	327	235	303	238	306		
18	17.5	57	67	413	228	305	222	287	224	289		
20	20.18	50	67	358	216	289	210	271	212	273		
22.4	21.99	45	60.5	302	187	250	183	236	185	238	3	(M1) 93 (M5) 93 (M4) 93
25	25.35	39	67	290	177	236	173	223	174	225		
28	27.42	36	67	268	185	246	181	233	182	235		
31.5	31.62	32	67	232	177	236	173	223	174	225		
35.5	35.22	28	67	209	169	226	167	215	168	216		
40	40.62	25	67	181	162	217	160	206	161	208		
45	44.13	23	67	166	155	207	152	197	154	198		
50	50.89	20	67	144	149	199	147	189	148	191		
56	55.17	18	67	133	139	186	138	178	139	179		
63	63.62	16	67	115	134	179	133	171	134	172		
71	69.13	14	67	106	134	179	133	171	134	172		
80	79.71	13	67	92	134	179	133	171	134	172		
90	90.56	11	67	81	133	177	131	169	132	170		
100	103.17	10	67	71	126	169	125	162	126	162		
112	110.33	9	67	68	127	-	126	-	127	-	4	(M1) 93 (M5) 93 (M4) 93
125	127.22	8	67	59	123	-	122	-	122	-		
140	144.54	7	67	52	121	-	120	-	121	-		
160	160.52	6	67	46	117	-	116	-	117	-		
180	182.38	5	67	41	116	-	115	-	115	-		
200	199.27	5	67	37	110	-	109	-	110	-		
224	226.41	4	67	33	109	-	108	-	108	-		
250	253.77	4	67	29	105	-	105	-	105	-		
280	288.33	3	67	26	104	-	103	-	104	-		
315	315.04	3	67	24	99	-	98	-	99	-		
355	357.94	3	67	21	98	-	97	-	97	-		
400	407.78	2	67	18	93	-	92	-	93	-		

Notes: (*) = consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W11 P - 1000 rpm

W11 - n1 = 1000 rpm											80 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6,3	6,22	161	63	1094	412	549	(*)	(*)	351	453	2	(M1) 94 (M5) 94 (M4) 94
7,1	7,19	139	66	991	384	513	(*)	408	330	425		
8	7,76	129	68	946	394	526	(*)	441	353	455		
9	8,97	111	71	854	368	491	(*)	413	330	426		
10	9,86	101	73,5	805	374	499	340	438	347	448		
11,2	11,41	88	76,5	724	351	468	317	409	325	419		
12,5	12,55	80	80	688	352	469	329	424	334	431		
14	14,52	69	80	595	330	441	308	397	314	405		
16	15,36	65	80	562	315	421	301	389	305	393		
18	17,77	56	80	486	298	398	284	367	288	371		
20	19,36	52	74	419	233	311	223	288	228	294	3	(M1) 94 (M5) 94 (M4) 94
22,4	22,39	45	80	392	223	297	213	275	218	281		
25	24,64	41	80	356	232	310	223	288	227	293		
28	28,50	35	80	308	223	297	213	275	218	281		
31,5	31,38	32	80	280	221	295	214	276	218	281		
35,5	36,29	28	80	242	212	283	205	264	209	269		
40	38,41	26	80	228	204	272	197	254	201	259		
45	44,42	23	80	197	196	261	189	244	193	248		
50	49,46	20	80	177	176	235	173	223	175	225		
56	57,21	17	80	153	170	227	167	215	168	217		
63	60,55	17	80	145	170	227	167	215	168	217		
71	70,03	14	80	125	170	227	167	215	168	217		
80	80,39	12	80	109	162	216	159	205	161	207		
90	92,39	11	80	95	158	210	155	200	157	202		
100	96,02	10	80	93	168	-	165	-	167	-	4	(M1) 94 (M5) 94 (M4) 94
112	111,06	9	80	80	162	-	159	-	161	-		
125	127,48	8	80	70	154	-	151	-	153	-		
140	139,07	7	80	64	153	-	150	-	152	-		
160	159,63	6	80	56	146	-	143	-	145	-		
180	175,08	6	80	51	140	-	137	-	138	-		
200	200,97	5	80	44	133	-	130	-	132	-		
224	219,24	5	80	41	138	-	136	-	137	-		
250	251,65	4	80	35	131	-	130	-	131	-		
280	276,02	4	80	32	126	-	124	-	125	-		
315	316,82	3	80	28	120	-	118	-	119	-		
355	364,11	3	80	24	116	-	115	-	116	-		

Notes: **(*) =** consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W12 P - 1000 rpm

W12 - n1 = 1000 rpm												92 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.00	143	71	1094	423	564	(*)	445	359	463	2	(M1) 95 (M5) 95 (M4) 95
8	8.08	124	74	989	395	527	(*)	418	338	435		
9	8.74	114	46	568	406	541	(*)	453	362	467		
10	10.08	99	79	846	378	505	(*)	424	339	437		
11.2	11.11	90	83	806	386	515	349	451	357	461		
12.5	12.81	78	86	725	360	481	326	421	334	431		
14	14.14	71	90	687	362	483	339	437	344	444		
16	16.31	61	92	609	339	453	317	409	322	416		
18	17.31	58	92	574	324	433	310	400	314	404		
20	19.96	50	92	498	306	409	292	377	296	381		
22.4	21.81	46	85	427	238	318	228	294	233	300	3	(M1) 95 (M5) 95 (M4) 95
25	25.15	40	92	401	226	301	216	279	221	284		
28	27.76	36	92	363	236	314	226	292	231	297		
31.5	32.01	31	92	315	226	301	216	279	221	284		
35.5	35.35	28	92	285	224	299	217	280	221	285		
40	40.77	25	92	247	215	287	208	268	211	273		
45	43.27	23	92	233	206	276	200	258	203	262		
50	49.90	20	92	202	198	265	192	247	195	252		
56	55.73	18	92	181	178	238	175	226	177	228		
63	64.27	16	92	157	172	229	169	218	170	220		
71	68.22	15	92	148	172	229	169	218	170	220		
80	78.67	13	92	128	172	229	169	218	170	220		
90	90.30	11	92	112	164	219	161	208	163	210		
100	103.78	10	79.5	84	160	213	157	203	159	204		
112	108.19	9	91	94	170	-	167	-	169	-	4	(M1) 95 (M5) 95 (M4) 95
125	124.75	8	92	82	164	-	161	-	163	-		
140	143.20	7	92	72	156	-	153	-	155	-		
160	156.21	6	92	66	155	-	152	-	154	-		
180	179.31	6	92	57	148	-	144	-	146	-		
200	196.67	5	92	52	141	-	138	-	140	-		
224	225.75	4	92	45	135	-	132	-	134	-		
250	246.26	4	92	42	139	-	138	-	139	-		
280	282.68	4	92	36	133	-	131	-	132	-		
315	310.04	3	92	33	127	-	126	-	127	-		
355	355.89	3	92	29	122	-	120	-	121	-		
400	409.00	2	92	25	118	-	116	-	117	-		

Notes: **(*) =** consult WEG-CESTARI.
(-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W13 P - 1000 rpm

W13 - n1 = 1000 rpm												115 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.29	159	96	1649	531	708	408	526	430	554	2	(M1) 96 (M5) 96 (M4) 96
7.1	7.27	138	100	1485	494	659	381	491	403	519		
8	7.75	129	103	1435	514	686	422	544	441	568		
9	8.96	112	107	1289	478	637	394	507	411	530		
10	9.86	101	112	1226	476	635	415	536	429	553		
11.2	11.41	88	115	1088	445	594	387	498	400	516		
12.5	12.43	80	115	999	453	605	411	529	421	543		
14	14.37	70	115	864	425	567	383	494	393	507		
16	15.56	64	115	798	428	572	400	515	407	525		
18	18.00	56	115	690	402	537	374	482	381	492		
20	19.36	52	96	544	293	391	271	350	281	363	3	(M1) 96 (M5) 96 (M4) 96
22.4	22.39	45	110	539	276	368	257	331	266	343		
25	24.39	41	115	517	287	383	270	348	278	358		
28	28.21	35	115	447	275	366	256	330	265	341		
31.5	31.31	32	115	403	273	365	261	336	267	344		
35.5	36.22	28	115	348	262	349	249	320	255	329		
40	39.21	26	115	322	260	348	248	319	254	328		
45	45.35	22	115	278	249	332	236	304	243	313		
50	48.92	20	115	258	225	301	219	282	222	287		
56	56.59	18	115	223	216	289	210	270	213	275		
63	61.26	16	115	206	216	289	210	270	213	275		
71	70.86	14	115	178	216	289	210	270	213	275		
80	79.84	13	115	158	207	276	200	258	204	263		
90	90.72	11	115	139	202	269	196	253	199	257		
100	98.87	10	115	130	216	-	210	-	214	-	4	(M1) 96 (M5) 96 (M4) 96
112	114.36	9	115	112	208	-	201	-	205	-		
125	128.86	8	115	99	198	-	191	-	196	-		
140	142.63	7	115	90	196	-	189	-	193	-		
160	160.71	6	115	80	187	-	180	-	185	-		
180	178.69	6	115	72	178	-	172	-	176	-		
200	201.35	5	115	64	171	-	164	-	169	-		
224	223.41	4	115	57	177	-	173	-	175	-		
250	251.73	4	115	51	169	-	165	-	168	-		
280	279.90	4	115	46	161	-	158	-	160	-		
315	315.38	3	115	41	154	-	151	-	153	-		
355	358.33	3	115	36	150	-	146	-	148	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W14 P - 1000 rpm

W14 - n1 = 1000 rpm												132 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.08	141	108	1646	539	719	412	531	434	559	2	(M1) 97 (M5) 97 (M4) 97
8	8.17	122	112	1480	506	675	389	501	411	529		
9	8.73	115	116	1434	523	698	429	553	447	577		
10	10.07	99	121	1298	490	654	403	519	421	543		
11.2	11.11	90	126	1224	484	647	423	546	437	563		
12.5	12.81	78	130	1095	457	609	397	512	410	529		
14	14	71	132	1018	462	617	419	540	429	553		
16	16.14	62	132	883	436	582	393	507	404	521		
18	17.53	57	132	813	437	583	408	526	415	535		
20	20.22	49	132	705	413	551	384	495	391	505		
22.4	21.81	46	108	543	262	350	272	351	280	362	3	(M1) 97 (M5) 97 (M4) 97
25	25.15	40	125	545	290	387	260	336	269	347		
28	27.48	36	132	527	279	372	272	351	280	362		
31.5	31.69	32	132	457	290	387	260	336	269	347		
35.5	35.28	28	132	410	279	372	263	340	269	347		
40	40.68	25	132	356	276	368	252	325	259	334		
45	44.18	23	132	328	265	354	250	323	257	331		
50	50.94	20	132	284	263	351	239	309	246	318		
56	55.13	18	132	263	253	337	221	285	224	289		
63	63.57	16	132	228	227	303	213	274	216	279		
71	69.03	14	132	210	227	303	213	274	216	279		
80	79.60	13	132	182	227	303	213	274	216	279		
90	89.69	11	132	161	219	293	203	262	207	267		
100	101.90	10	132	142	210	280	199	257	202	261		
112	111.40	9	132	132	218	-	212	-	216	-	4	(M1) 97 (M5) 97 (M4) 97
125	128.46	8	132	114	211	-	204	-	208	-		
140	144.75	7	132	102	201	-	194	-	199	-		
160	160.22	6	132	92	199	-	192	-	196	-		
180	180.52	6	132	81	190	-	183	-	187	-		
200	200.72	5	132	73	181	-	174	-	179	-		
224	226.17	4	132	65	173	-	167	-	171	-		
250	250.96	4	132	59	179	-	176	-	178	-		
280	282.77	4	132	52	171	-	168	-	170	-		
315	314.41	3	132	47	163	-	160	-	162	-		
355	354.27	3	132	42	156	-	153	-	155	-		
400	402.51	2	132	37	152	-	148	-	151	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W15 P - 1000 rpm

W15 - n1 = 1000 rpm												158 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.21	161	118	2051	564	752	403	520	430	554	2	(M1) 98 (M5) 98 (M4) 98
7.1	7.25	138	130	1936	525	701	384	495	409	528		
8	8.03	124	130	1747	550	734	434	559	456	589		
9	9.38	107	134	1543	510	681	402	519	425	548		
10	9.85	101	134	1468	540	721	451	581	470	606		
11.2	11.5	87	144	1352	500	667	419	541	438	564		
12.5	12.41	81	144	1252	513	684	453	584	467	602		
14	14.49	69	154	1147	475	633	420	542	434	559		
16	15.53	64	154	1070	462	616	427	550	436	562		
18	18.13	55	158	941	432	576	398	513	407	524		
20	19.34	52	128	726	338	451	316	408	326	420	3	(M1) 98 (M5) 98 (M4) 98
22.4	22.57	44	141	685	319	425	298	384	307	396		
25	24.37	41	153	688	331	442	313	404	321	414		
28	28.44	35	158	609	314	419	296	382	304	392		
31.5	31.29	32	158	554	314	419	302	389	307	396		
35.5	36.51	27	158	474	300	400	287	370	293	378		
40	39.14	26	158	443	290	387	279	359	284	366		
45	45.69	22	158	379	277	370	265	342	271	350		
50	48.88	20	158	354	250	334	245	316	248	320		
56	57.05	18	158	304	241	321	235	303	238	307		
63	61.16	16	158	283	241	321	235	303	238	307		
71	71.38	14	158	243	241	321	235	303	238	307		
80	80.5	12	158	215	234	313	229	295	232	299		
90	91.46	11	158	189	229	305	224	289	227	292		
100	98.71	10	158	178	240	-	235	-	238	-	4	(M1) 98 (M5) 98 (M4) 98
112	115.21	9	158	153	230	-	225	-	228	-		
125	129.92	8	158	135	224	-	218	-	222	-		
140	143.68	7	158	123	218	-	212	-	216	-		
160	162.03	6	158	109	212	-	206	-	210	-		
180	180.01	6	158	98	199	-	193	-	197	-		
200	203	5	158	87	194	-	188	-	192	-		
224	225.06	4	158	78	197	-	194	-	196	-		
250	253.80	4	158	69	191	-	189	-	190	-		
280	281.97	4	158	62	179	-	177	-	179	-		
315	317.98	3	158	55	175	-	172	-	174	-		
355	361.27	3	158	49	170	-	167	-	169	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

W16 P - 1000 rpm

W16 - n1 = 1000 rpm											178 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	6.95	144	138	2143	566	755	400	516	427	550	2	(M1) 99 (M5) 99 (M4) 99
8	8.09	124	154	2055	529	706	386	498	412	531		
9	8.99	111	146	1753	555	741	437	564	460	593		
10	10.46	96	150	1548	515	688	406	523	428	552		
11.2	11.03	91	150	1468	547	729	455	587	474	612		
12.5	12.83	78	162	1363	505	674	424	547	442	570		
14	13.90	72	162	1258	519	693	458	591	472	609		
16	16.17	62	172	1148	480	641	425	548	438	565		
18	17.39	58	172	1068	468	625	432	557	441	569		
20	20.23	49	178	950	437	583	403	519	411	530		
22.4	21.65	46	140	709	344	459	321	414	331	426	3	(M1) 99 (M5) 99 (M4) 99
25	25.19	40	158	688	322	430	302	389	311	401		
28	27.28	37	172	691	335	447	317	409	325	419		
31.5	31.74	32	178	615	318	424	300	387	308	397		
35.5	35.02	29	178	557	318	424	306	394	311	401		
40	40.75	25	178	479	303	404	290	374	296	382		
45	43.8166	23	178	445	293	391	282	364	288	371		
50	50.9831	20	178	383	280	374	269	346	274	354		
56	54.7197	18	178	357	254	339	248	320	251	324		
63	63.67	16	178	307	245	327	239	308	242	312		
71	68.46	15	178	285	254	339	239	308	242	312		
80	79.66	13	178	245	245	327	239	308	242	312		
90	89.83	11	178	217	239	318	233	300	236	304		
100	102.07	10	178	191	231	309	227	292	229	295		
112	110.49	9	178	179	243	-	238	-	241	-	4	(M1) 99 (M5) 99 (M4) 99
125	128.57	8	178	154	233	-	227	-	231	-		
140	144.98	7	178	137	227	-	221	-	224	-		
160	160.34	6	178	124	220	-	215	-	218	-		
180	180.82	6	178	110	214	-	208	-	212	-		
200	200.88	5	178	99	201	-	196	-	199	-		
224	226.54	4	178	88	196	-	190	-	194	-		
250	251.16	4	178	79	199	-	196	-	198	-		
280	283.23	4	178	70	194	-	191	-	193	-		
315	314.66	3	178	63	182	-	179	-	181	-		
355	354.84	3	178	56	177	-	174	-	176	-		
400	403.16	2	178	49	172	-	169	-	171	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.

8.2 RIGHT ANGLE GEARBOX

W01 K/T - 1800 rpm

W01 - n1 = 1800 rpm												7.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.26	287	6.9	209	77	134	73	126	76	131	2	(M1): 100 (M5): 100 (M4): 100
7.1	7.25	248	7.5	195	74	128	70	121	72	125		
8.0	7.66	235	7.3	179	76	131	72	124	74	128		
9.0	8.86	203	7.5	160	72	125	68	118	71	122		
10.0	9.71	185	6.9	135	65	113	63	109	64	111		
11.2	11.23	160	7.5	126	62	108	60	105	62	107		
12.5	12.19	148	7.1	109	59	101	57	99	58	101		
14.0	14.10	128	7.5	100	56	97	55	95	56	96		
16.0	15.66	115	6.8	82	40	69	39	67	40	68	3	Right angle K (M1): 100 (M5): 100 (M4): 100 Right angle T (M1): 100 (M4): 100
18.0	18.12	99	7.5	78	38	66	37	64	38	65		
20.0	19.93	90	7.5	71	39	68	38	66	39	67		
22.4	23.06	78	7.5	61	38	65	37	63	37	64		
25.0	24.76	73	7.5	57	38	65	36	63	37	64		
28.0	28.64	63	7.5	49	36	62	35	60	36	61		
31.5	30.89	58	7.5	46	32	56	32	55	32	56		
35.5	35.73	50	7.5	40	31	54	31	53	31	54		
40.0	38.38	47	7.5	37	31	54	31	53	31	54		
45.0	44.39	41	7.5	32	30	52	30	51	30	52		
50.0	48.19	37	7.5	29	28	48	28	47	28	48		
56.0	55.74	32	7.5	25	27	46	27	46	27	46		
63.0	63.09	29	7.5	22	26	45	26	45	26	45		
71.0	70.49	26	7.5	20	25	42	25	42	25	42		
80.0	79.79	23	7.5	18	24	41	24	41	24	41		

Notes: when the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T is available in 3 stages only.

W02 K/T - 1800 rpm

W02 - n1 = 1800 rpm												9.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8.0	7.85	229	8.7	209	82	142	77	132	79	137	2	(M1): 101 (M5): 101 (M4): 101
9.0	9.03	199	9.5	198	78	135	73	127	76	131		
10.0	9.60	188	9.1	179	80	139	75	130	78	135		
11.2	11.04	163	9.5	162	76	132	72	124	74	129		
12.5	12.17	148	8.7	135	69	119	66	115	68	117		
14.0	14.00	129	9.5	128	66	113	64	110	65	112		
16.0	15.28	118	8.9	109	62	107	60	104	61	106		
18.0	17.58	102	9.5	102	59	102	58	99	58	101		
20.0	19.63	92	9.1	88	44	76	42	74	43	75	3	Right angle K (M1): 101 (M5): 101 (M4): 101 Right angle T (M1): 101 (M4): 101
22.4	22.58	80	9.5	79	42	73	41	71	41	72		
25.0	24.99	72	9.5	72	43	74	42	72	42	73		
28.0	28.74	63	9.5	62	41	71	40	69	41	70		
31.5	31.04	58	9.5	58	41	71	40	69	41	70		
35.5	35.70	50	9.5	50	39	68	38	66	39	67		
40.0	38.73	46	9.5	46	35	61	35	61	35	61		
45.0	44.55	40	9.5	40	34	59	34	58	34	59		
50.0	48.10	37	9.5	37	34	59	34	58	34	59		
56.0	55.33	33	9.5	32	33	57	32	56	33	56		
63.0	60.40	30	9.5	30	30	52	30	52	30	52		
71.0	69.48	26	9.5	26	29	50	29	50	29	50		
80.0	78.65	23	9.5	23	28	49	28	49	28	49		
90.0	87.87	20	9.5	20	27	46	27	46	27	46		
100.0	99.46	18	9.5	18	26	45	26	45	26	45		

Notes: when the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T is available in 3 stages only.

W03 K/T - 1800 rpm

W03 - n1 = 1800 rpm												13 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.26	287	10.8	324	108	240	98	217	104	230	2	(M1): 102 (M5): 102 (M4): 102
7.1	7.25	248	12.2	317	103	229	94	209	100	221		
8	7.64	236	12.0	297	106	235	98	216	103	228		
9	8.84	204	12.7	271	101	223	93	205	98	218		
10	9.71	185	12.4	241	95	210	90	200	93	207		
11.2	11.23	160	13.0	218	90	200	86	190	89	197		
12.5	12.19	148	11.6	180	83	184	80	178	82	182		
14	14.10	128	13.0	174	79	176	77	170	79	174		
16	15.66	115	12.8	154	56	124	54	120	55	122	3	Right angle K (M1): 102 (M5): 102 (M4): 102 Right angle T (M1): 102 (M4): 102
18	18.12	99	13.0	135	54	119	52	115	53	117		
20	19.93	90	13.0	123	54	120	52	116	54	119		
22.4	23.06	78	13.0	106	52	115	50	111	51	114		
25	24.69	73	13.0	99	52	115	50	110	51	114		
28	28.56	63	13.0	86	50	111	48	106	49	109		
31.5	30.89	58	13.0	79	47	103	46	101	46	102		
35.5	35.73	50	13.0	69	45	99	44	97	45	99		
40	38.27	47	13.0	64	45	99	44	97	44	98		
45	44.26	41	13.0	55	43	95	42	93	43	95		
50	48.05	37	13.0	51	39	87	39	86	39	87		
56	55.58	32	13.0	44	38	84	38	83	38	84		
63	63.46	28	13.0	39	38	84	38	83	38	84		
71	70.29	26	13.0	35	35	79	35	78	35	78		
80	80.26	22	13.0	31	35	78	35	77	35	78		
90	90.44	20	13.0	27	34	-	34	-	34	-	4	Right angle K (M1): 102 (M5): 102 (M4): 102 Right angle T (M1): 102 (M4): 102
100	103.26	17	13.0	24	34	-	33	-	33	-		
112	112.65	16	13.0	22	32	-	32	-	32	-		
125	128.62	14	13.0	19	32	-	31	-	32	-		
140	140.16	13	13.0	17	30	-	30	-	30	-		
160	160.04	11	13.0	15	30	-	30	-	30	-		
180	174.59	10	13.0	14	28	-	28	-	28	-		
200	199.35	9	13.0	12	28	-	28	-	28	-		
224	219.23	8	13.0	11	25	-	25	-	25	-		
250	250.32	7	13.0	10	24	-	24	-	24	-		
280	284.06	6	13.0	9	24	-	24	-	24	-		
315	316.58	6	13.0	8	24	-	24	-	24	-		
355	359.25	5	13.0	7	24	-	24	-	24	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W04 K/T - 1800 rpm

W04 - n1 = 1800 rpm												16.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8.0	7.85	229	13.5	324	121	210	109	188	115	199	2	(M1): 103 (M5): 103 (M4): 103
9.0	9.03	199	15.2	317	116	200	105	182	111	192		
10.0	9.58	188	15.1	297	119	206	109	188	115	199		
11.2	11.02	163	15.8	271	113	195	103	179	109	189		
12.5	12.17	148	15.5	241	106	184	101	174	104	181		
14.0	14.00	129	16.3	220	101	175	96	166	99	172		
16.0	15.28	118	14.6	180	93	161	90	155	92	159		
18.0	17.58	102	16.5	177	89	153	86	149	88	152		
20.0	19.63	92	16.1	154	61	105	59	101	60	104	3	Right angle K (M1): 103 (M5): 103 (M4): 103 Right angle T (M1): 103 (M4): 103
22.4	22.58	80	16.5	138	58	101	56	97	57	99		
25.0	24.99	72	16.5	124	59	102	57	98	58	100		
28.0	28.74	63	16.5	108	56	97	54	93	56	96		
31.5	30.95	58	16.5	100	56	97	54	93	56	96		
35.5	35.60	51	16.5	87	54	93	52	89	53	92		
40.0	38.73	46	16.5	80	50	87	49	85	50	86		
45.0	44.55	40	16.5	70	48	83	47	82	48	83		
50.0	47.97	38	16.5	65	48	83	47	82	48	83		
56.0	55.18	33	16.5	56	46	80	45	78	46	79		
63.0	60.23	30	16.5	52	42	73	42	72	42	73		
71.0	69.28	26	16.5	45	41	70	40	70	41	70		
80.0	79.11	23	16.5	39	41	71	40	70	41	70		
90.0	87.62	21	16.5	35	38	66	38	65	38	66		
100.0	100.05	18	16.5	31	38	65	38	65	38	65		
112.0	112.74	16	16.5	28	37	-	37	-	37	-	4	Right angle K (M1): 103 (M5): 103 (M4): 103 Right angle T (M1): 103 (M4): 103
125.0	128.72	14	16.5	24	36	-	36	-	36	-		
140.0	140.43	13	16.5	22	35	-	35	-	35	-		
160.0	160.34	11	16.5	19	34	-	34	-	35	-		
180.0	174.73	10	16.5	18	32	-	32	-	32	-		
200.0	199.50	9	16.5	16	32	-	32	-	32	-		
224.0	217.64	8	16.5	14	31	-	31	-	31	-		
250.0	248.50	7	16.5	13	30	-	30	-	30	-		
280.0	273.29	7	16.5	11	26	-	27	-	27	-		
315.0	312.04	6	16.5	10	26	-	26	-	26	-		
355.0	354.10	5	16.5	9	26	-	26	-	26	-		
400.0	394.63	5	16.5	8	26	-	26	-	26	-		
450.0	447.84	4	16.5	7	26	-	25	-	25	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W05 K/T - 1800 rpm

W05 - n1 = 1800 rpm												22 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.26	287	20.8	626	172	297	144	249	159	275	2	(M1): 104 (M5): 104 (M4): 104
7.1	7.25	248	22.0	572	160	277	135	234	150	259		
8.0	7.64	236	21.8	540	158	274	136	236	149	259		
9.0	8.84	204	22.0	469	148	257	127	220	141	243		
10.0	9.71	185	21.1	410	136	235	125	217	132	228		
11.2	11.23	160	22.0	369	127	220	118	203	124	214		
12.5	12.19	148	19.6	303	115	200	110	190	113	196		
14.0	14.10	128	22.0	294	109	189	104	180	108	186		
16.0	16.03	112	19.2	236	93	161	87	150	94	162	3	Right angle K (M1): 104 (M5): 104 (M4): 104 Right angle T (M1): 104 (M4): 104
18.0	18.54	97	22.0	234	89	153	83	144	89	154		
20.0	20.22	89	22.0	215	90	156	85	147	91	157		
22.4	23.39	77	22.0	185	87	150	82	141	88	151		
25.0	25.10	72	22.0	173	90	155	85	147	90	156		
28.0	29.04	62	22.0	149	86	149	82	141	87	150		
31.5	30.89	58	22.0	140	71	122	69	120	71	122		
35.5	35.73	50	22.0	121	69	118	67	116	69	119		
40.0	38.35	47	22.0	113	69	119	67	116	69	119		
45.0	44.36	41	22.0	98	67	115	65	113	67	115		
50.0	48.16	37	22.0	90	62	106	61	105	62	107		
56.0	55.70	32	22.0	78	60	103	59	102	60	103		
63.0	63.46	28	22.0	68	62	106	61	105	62	107		
71.0	70.45	26	22.0	62	55	95	55	95	55	96		
80.0	80.26	22	22.0	54	54	92	53	91	54	93		
90.0	91.07	20	22.0	48	60	-	58	-	60	-	4	Right angle K (M1): 104 (M5): 104 (M4): 104 Right angle T (M1): 104 (M4): 104
100.0	103.75	17	22.0	43	58	-	56	-	58	-		
112.0	113.13	16	22.0	39	57	-	55	-	57	-		
125.0	128.88	14	22.0	34	55	-	53	-	55	-		
140.0	141.15	13	22.0	31	51	-	50	-	51	-		
160.0	160.80	11	22.0	27	49	-	48	-	49	-		
180.0	175.33	10	22.0	25	49	-	48	-	49	-		
200.0	199.75	9	22.0	22	47	-	46	-	47	-		
224.0	220.16	8	22.0	20	45	-	45	-	45	-		
250.0	250.82	7	22.0	18	44	-	44	-	44	-		
280.0	283.90	6	22.0	16	41	-	41	-	41	-		
315.0	317.21	6	22.0	14	39	-	39	-	39	-		
355.0	359.05	5	22.0	12	38	-	37	-	38	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W06 K/T - 1800 rpm

W06 - n1 = 1800 rpm												28 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8.0	7.85	229	26.1	626	193	334	160	277	176	305	2	(M1): 105 (M5): 105 (M4): 105
9.0	9.03	199	27.7	579	180	312	151	261	167	288		
10.0	9.58	188	27.4	540	180	311	153	265	168	291		
11.2	11.02	163	28.0	479	167	289	143	247	158	272		
12.5	12.17	148	26.5	410	153	265	140	243	148	256		
14.0	14.00	129	28.0	377	144	248	132	228	139	241		
16.0	15.28	118	24.6	303	130	225	123	213	127	220		
18.0	17.58	102	28.0	300	123	213	117	203	121	209		
20.0	20.09	90	24.0	236	100	172	93	161	100	173	3	Right angle K (M1): 105 (M5): 105 (M4): 105 Right angle T (M1): 105 (M4): 105
22.4	23.11	78	27.0	230	95	164	89	154	96	165		
25.0	25.35	71	28.0	218	96	167	91	158	97	168		
28.0	29.16	62	28.0	189	93	160	87	151	94	161		
31.5	31.47	57	28.0	175	96	167	91	158	97	168		
35.5	36.19	50	28.0	153	93	160	87	151	93	161		
40.0	38.73	46	28.0	143	76	131	74	128	76	131		
45.0	44.55	40	28.0	124	73	127	72	124	73	127		
50.0	48.08	37	28.0	115	74	127	72	125	74	127		
56.0	55.30	33	28.0	100	71	123	70	120	71	123		
63.0	60.37	30	28.0	91	66	114	65	112	66	114		
71.0	69.44	26	28.0	79	64	110	63	109	64	110		
80.0	79.11	23	28.0	70	61	105	60	104	61	106		
90.0	87.82	20	28.0	63	59	102	59	101	59	102		
100.0	100.05	18	28.0	55	57	99	57	98	57	99		
112.0	113.53	16	28.0	49	64	-	62	-	64	-	4	Right angle K (M1): 105 (M5): 105 (M4): 105 Right angle T (M1): 105 (M4): 105
125.0	129.34	14	28.0	43	62	-	60	-	62	-		
140.0	141.02	13	28.0	40	61	-	59	-	61	-		
160.0	160.66	11	28.0	35	59	-	57	-	59	-		
180.0	175.95	10	28.0	32	54	-	53	-	54	-		
200.0	200.45	9	28.0	28	52	-	52	-	52	-		
224.0	218.57	8	28.0	26	52	-	51	-	52	-		
250.0	249.00	7	28.0	23	50	-	49	-	50	-		
280.0	274.45	7	28.0	20	47	-	46	-	47	-		
315.0	312.66	6	28.0	18	45	-	45	-	45	-		
355.0	353.90	5	28.0	16	44	-	44	-	44	-		
400.0	395.43	5	28.0	14	42	-	41	-	42	-		
450.0	447.58	4	28.0	13	40	-	40	-	40	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W07 K/T - 1800 rpm

W07 - n1 = 1800 rpm												36 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	283	29.7	880	275	475	206	355	240	415	2	(M1): 106 (M5): 106 (M4): 106
7.1	7.35	245	31.8	814	257	444	195	337	229	395		
8.0	7.64	236	31.1	767	257	444	201	347	233	402		
9.0	8.84	204	33.3	710	240	415	189	327	220	380		
10.0	9.71	185	31.8	617	224	388	192	332	212	366		
11.2	11.23	160	33.9	569	210	364	181	313	200	345		
12.5	12.19	148	32.6	504	195	337	176	304	188	325		
14.0	14.10	128	34.9	466	183	317	166	287	178	307		
16.0	15.89	113	31.0	385	147	254	131	226	150	259	3	Right angle K (M1): 106 (M5): 106 (M4): 106 Right angle T (M1): 106 (M4): 106
18.0	18.38	98	35.0	376	140	242	125	217	142	246		
20.0	19.89	90	36.0	357	141	243	127	220	143	247		
22.4	23.01	78	36.0	308	134	232	121	210	136	236		
25.0	25.05	72	36.0	283	126	218	119	206	127	220		
28.0	28.97	62	36.0	245	122	211	115	198	123	213		
31.5	30.39	59	36.0	234	111	192	107	185	112	193		
35.5	35.16	51	36.0	202	108	186	104	179	108	187		
40.0	38.27	47	36.0	185	104	181	101	174	105	182		
45.0	44.26	41	36.0	160	101	175	97	168	102	176		
50.0	48.05	37	36.0	148	92	159	90	155	92	159		
56.0	55.58	32	36.0	128	89	154	87	151	90	155		
63.0	63.88	28	36.0	111	85	146	83	144	85	147		
71.0	70.29	26	36.0	101	82	142	81	140	82	143		
80.0	80.78	22	36.0	88	81	141	80	138	81	141		
90.0	90.87	20	36.0	79	89	-	85	-	89	-	4	Right angle K (M1): 106 (M5): 106 (M4): 106 Right angle T (M1): 106 (M4): 106
100.0	104.43	17	36.0	69	88	-	83	-	88	-		
112.0	112.56	16	36.0	64	85	-	81	-	86	-		
125.0	129.36	14	36.0	56	84	-	79	-	85	-		
140.0	140.84	13	36.0	51	77	-	75	-	77	-		
160.0	161.86	11	36.0	45	76	-	74	-	76	-		
180.0	174.45	10	36.0	41	74	-	72	-	74	-		
200.0	200.48	9	36.0	36	73	-	71	-	73	-		
224.0	219.05	8	36.0	33	66	-	66	-	66	-		
250.0	251.74	7	36.0	29	65	-	65	-	66	-		
280.0	287.44	6	36.0	25	65	-	64	-	65	-		
315.0	318.38	6	36.0	23	61	-	60	-	61	-		
355.0	363.52	5	36.0	20	60	-	59	-	60	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W08 K/T - 1800 rpm

W08 - n1 = 1800 rpm												46 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8.0	7.97	226	37.2	880	288	498	211	365	245	424	2	(M1): 107 (M5): 107 (M4): 107
9.0	9.16	196	39.6	814	269	465	201	348	235	407		
10.0	9.58	188	39.0	767	270	467	208	360	240	416		
11.2	11.02	163	41.5	710	252	436	197	340	228	394		
12.5	12.17	148	39.8	617	236	408	200	346	220	381		
14.0	14.00	129	42.3	569	221	382	189	327	208	360		
16.0	15.28	118	40.9	504	205	354	184	319	197	341		
18.0	17.58	102	43.5	466	193	333	174	301	186	322		
20.0	19.92	90	38.0	376	152	262	137	236	154	266	3	Right angle K (M1): 107 (M5): 107 (M4): 107 Right angle T (M1): 107 (M4): 107
22.4	22.91	79	43.0	370	145	251	131	226	147	255		
25.0	24.94	72	46.0	364	146	252	133	229	148	255		
28.0	28.68	63	46.0	316	140	242	127	219	142	246		
31.5	31.40	57	46.0	289	131	227	124	215	132	229		
35.5	36.11	50	46.0	251	127	219	119	206	128	221		
40.0	38.10	47	46.0	238	116	200	112	193	116	201		
45.0	43.83	41	46.0	207	112	194	108	187	113	195		
50.0	47.97	38	46.0	189	109	188	105	182	110	189		
56.0	55.18	33	46.0	164	106	182	101	175	106	183		
63.0	60.23	30	46.0	151	96	165	94	162	96	166		
71.0	69.28	26	46.0	131	93	161	91	157	93	161		
80.0	79.63	23	46.0	114	88	153	87	151	89	153		
90.0	87.62	21	46.0	104	86	148	84	146	86	148		
100.0	100.70	18	46.0	92	85	146	83	144	85	147		
112.0	113.28	16	46.0	81	92	-	88	-	93	-	4	Right angle K (M1): 107 (M5): 107 (M4): 107 Right angle T (M1): 107 (M4): 107
125.0	130.18	14	46.0	71	91	-	87	-	92	-		
140.0	140.31	13	46.0	66	89	-	84	-	89	-		
160.0	161.25	11	46.0	57	88	-	83	-	88	-		
180.0	175.56	10	46.0	53	80	-	79	-	80	-		
200.0	201.76	9	46.0	46	79	-	78	-	80	-		
224.0	217.46	8	46.0	42	77	-	75	-	77	-		
250.0	249.92	7	46.0	37	76	-	74	-	76	-		
280.0	273.06	7	46.0	34	69	-	68	-	69	-		
315.0	313.82	6	46.0	29	68	-	67	-	68	-		
355.0	358.31	5	46.0	26	68	-	67	-	68	-		
400.0	396.89	5	46.0	23	64	-	63	-	64	-		
450.0	453.16	4	46.0	20	62	-	62	-	62	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W09 K/T - 1800 rpm

W09 - n1 = 1800 rpm												58.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	283	44.2	1310	298	523	210	369	249	436	2	(M1): 108 (M5): 108 (M4): 108
7.1	7.35	245	51.1	1310	282	495	207	363	244	427		
8.0	7.64	236	53.5	1319	281	493	212	371	248	435		
9.0	8.84	204	58.5	1246	264	463	202	354	237	416		
10.0	9.71	185	54.9	1065	244	428	204	358	227	398		
11.2	11.23	160	58.5	980	230	403	193	339	216	378		
12.5	12.19	148	58.1	899	215	377	191	335	206	361		
14.0	14.10	128	58.5	781	202	354	179	313	194	340		
16.0	15.79	114	50.0	624	164	284	144	250	167	290	3	Right angle K (M1): 108 (M5): 108 (M4): 108 Right angle T (M1): 108 (M4): 108
18.0	18.26	99	57.0	605	157	271	139	240	160	276		
20.0	19.69	91	58.5	586	157	272	141	245	160	277		
22.4	22.77	79	58.5	506	152	262	135	234	155	267		
25.0	24.67	73	58.5	468	150	259	136	236	152	263		
28.0	28.53	63	58.5	404	144	250	130	225	147	254		
31.5	30.52	59	58.5	378	130	226	124	215	132	228		
35.5	35.30	51	58.5	327	126	219	120	207	128	221		
40.0	38.23	47	58.5	302	123	212	116	201	124	214		
45.0	44.22	41	58.5	261	119	205	112	193	120	208		
50.0	48.01	37	58.5	240	108	186	104	180	108	187		
56.0	55.53	32	58.5	208	105	181	101	175	105	182		
63.0	63.09	29	58.5	183	99	171	97	168	99	171		
71.0	70.23	26	58.5	164	96	166	94	162	96	166		
80.0	79.79	23	58.5	145	95	164	93	160	95	164		
90.0	90.78	20	58.5	129	104	-	100	-	105	-	4	Right angle K (M1): 108 (M5): 108 (M4): 108 Right angle T (M1): 108 (M4): 108
100.0	103.15	17	58.5	114	103	-	98	-	104	-		
112.0	112.70	16	58.5	104	101	-	97	-	102	-		
125.0	128.05	14	58.5	92	100	-	95	-	101	-		
140.0	140.70	13	58.5	83	90	-	88	-	91	-		
160.0	159.86	11	58.5	73	89	-	87	-	90	-		
180.0	174.67	10	58.5	67	88	-	86	-	88	-		
200.0	198.46	9	58.5	59	87	-	84	-	87	-		
224.0	219.33	8	58.5	53	80	-	79	-	80	-		
250.0	249.20	7	58.5	47	79	-	78	-	79	-		
280.0	283.90	6	58.5	41	77	-	75	-	77	-		
315.0	315.17	6	58.5	37	74	-	73	-	74	-		
355.0	359.05	5	58.5	33	72	-	70	-	72	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W10 K/T - 1800 rpm

W10 - n1 = 1800 rpm												67 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.16	251	49.8	1310	308	532	214	369	252	435	2	(M1): 109 (M5): 109 (M4): 109
8.0	8.26	218	57.4	1310	291	504	211	365	248	430		
9.0	8.61	209	60.3	1319	291	503	217	375	254	439		
10.0	9.93	181	67.0	1272	273	473	208	361	244	422		
11.2	10.94	165	61.8	1065	252	436	210	363	234	404		
12.5	12.62	143	67.0	1001	238	411	200	346	222	385		
14.0	13.74	131	65.5	899	223	385	197	341	213	368		
16.0	15.84	114	67.0	797	209	362	185	320	201	347		
18.0	17.79	101	56.0	621	154	266	134	231	157	272	3	Right angle K (M1): 109 (M5): 109 (M4): 109 Right angle T (M1): 109 (M4): 109
20.0	20.51	88	64.0	615	147	254	128	222	150	260		
22.4	22.18	81	67.0	595	165	286	149	258	168	290		
25.0	25.58	70	67.0	516	159	275	143	247	162	280		
28.0	27.79	65	67.0	475	153	265	140	242	156	270		
31.5	32.05	56	67.0	412	148	256	134	231	151	260		
35.5	34.38	52	67.0	384	134	231	127	220	135	233		
40.0	39.65	45	67.0	333	130	224	123	212	131	226		
45.0	43.08	42	67.0	307	126	217	119	206	127	220		
50.0	49.67	36	67.0	266	122	211	115	198	123	213		
56.0	54.09	33	67.0	244	110	191	107	185	111	192		
63.0	62.37	29	67.0	212	107	185	104	179	108	187		
71.0	70.87	25	67.0	186	101	175	99	172	102	176		
80.0	78.88	23	67.0	167	98	170	96	166	99	171		
90.0	89.63	20	67.0	147	97	168	95	164	98	169		
100.0	101.98	18	67.0	132	107	-	102	-	107	-	4	Right angle K (M1): 109 (M5): 109 (M4): 109 Right angle T (M1): 109 (M4): 109
112.0	115.86	16	67.0	116	106	-	101	-	106	-		
125.0	126.60	14	67.0	106	104	-	99	-	104	-		
140.0	143.84	13	67.0	93	103	-	97	-	103	-		
160.0	158.05	11	67.0	85	93	-	91	-	93	-		
180.0	179.57	10	67.0	75	92	-	89	-	92	-		
200.0	196.21	9	67.0	68	90	-	88	-	90	-		
224.0	222.93	8	67.0	60	89	-	86	-	89	-		
250.0	246.38	7	67.0	55	82	-	81	-	82	-		
280.0	279.93	6	67.0	48	81	-	80	-	81	-		
315.0	318.90	6	67.0	42	79	-	77	-	79	-		
355.0	354.02	5	67.0	38	76	-	75	-	76	-		
400.0	403.32	4	67.0	33	73	-	72	-	73	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W11 K/T - 1800 rpm

W11 - n1 = 1800 rpm												80 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	283	58.3	1728	353	610	232	401	282	488	2	(M1): 110 (M5): 110 (M4): 110
7.1	7.35	245	66.2	1698	336	580	229	397	280	483		
8.0	7.64	236	65.7	1620	335	579	216	374	279	482		
9.0	8.84	204	70.4	1500	316	546	206	356	268	463		
10.0	9.71	185	67.2	1304	292	505	219	379	262	453		
11.2	11.23	160	71.8	1204	276	477	208	360	250	432		
12.5	12.19	148	68.7	1062	251	435	214	370	237	410		
14.0	14.10	128	73.6	984	238	412	203	351	226	391		
16.0	15.89	113	70.0	869	211	366	174	301	220	380	3	Right angle K (M1): 110 (M5): 110 (M4): 110 Right angle T (M1): 110 (M4): 110
18.0	18.38	98	78.0	837	202	349	168	291	210	363		
20.0	20.22	89	80.0	780	203	351	171	295	210	364		
22.4	23.39	77	80.0	674	195	338	162	280	203	352		
25.0	24.75	73	80.0	637	192	332	165	285	199	343		
28.0	28.63	63	80.0	551	185	320	157	271	192	332		
31.5	30.89	58	80.0	511	171	295	155	268	174	302		
35.5	35.73	50	80.0	441	165	286	148	256	169	292		
40.0	37.82	48	80.0	417	161	279	145	251	165	285		
45.0	43.74	41	80.0	361	156	270	139	240	160	277		
50.0	47.48	38	80.0	332	144	249	134	231	146	253		
56.0	54.92	33	80.0	287	139	241	129	222	142	245		
63.0	63.05	29	80.0	250	130	225	126	218	131	227		
71.0	69.46	26	80.0	227	126	219	122	210	128	221		
80.0	79.73	23	80.0	198	122	211	117	202	123	213		
90.0	88.35	20	80.0	182	136	-	124	-	137	-	4	Right angle K (M1): 110 (M5): 110 (M4): 110 Right anglel T (M1): 110 (M4): 110
100.0	101.41	18	80.0	158	131	-	119	-	132	-		
112.0	111.23	16	80.0	144	129	-	118	-	130	-		
125.0	127.68	14	80.0	126	124	-	112	-	125	-		
140.0	136.93	13	80.0	117	120	-	114	-	120	-		
160.0	157.17	11	80.0	102	115	-	109	-	116	-		
180.0	172.39	10	80.0	93	114	-	108	-	114	-		
200.0	197.88	9	80.0	81	109	-	103	-	110	-		
224.0	216.47	8	80.0	74	102	-	99	-	103	-		
250.0	248.47	7	80.0	65	99	-	95	-	99	-		
280.0	285.56	6	80.0	56	97	-	93	-	97	-		
315.0	314.25	6	80.0	51	92	-	89	-	92	-		
355.0	361.15	5	80.0	44	89	-	87	-	90	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W12 K/T - 1800 rpm

W12 - n1 = 1800 rpm												92 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.16	251	65.7	1728	361	625	234	404	283	489	2	(M1): 111 (M5): 111 (M4): 111
8.0	8.26	218	74.4	1699	344	596	232	402	282	489		
9.0	8.61	209	74.0	1621	344	596	220	380	283	489		
10.0	9.93	181	79.1	1501	324	561	210	363	273	471		
11.2	10.94	165	75.8	1306	301	520	224	388	268	463		
12.5	12.62	143	80.7	1205	284	491	213	369	256	442		
14.0	13.74	131	77.5	1063	259	448	219	379	243	420		
16.0	15.84	114	82.7	984	245	424	209	361	232	401		
18.0	17.90	101	78.0	859	215	372	177	306	224	387	3	Right angle K (M1): 111 (M5): 111 (M4): 111 Right angle T (M1): 111 (M4): 111
20.0	20.64	87	88.0	840	205	355	171	295	213	369		
22.4	22.78	79	92.0	796	206	356	174	300	213	369		
25.0	26.27	69	92.0	690	198	343	165	285	206	356		
28.0	27.89	65	92.0	650	195	337	168	290	201	348		
31.5	32.16	56	92.0	564	188	325	159	276	195	336		
35.5	34.81	52	92.0	521	173	300	158	272	177	306		
40.0	40.14	45	92.0	452	168	290	151	261	171	296		
45.0	42.61	42	92.0	426	164	283	148	255	167	290		
50.0	49.13	37	92.0	369	158	274	141	244	162	281		
56.0	53.50	34	92.0	339	146	252	136	235	148	256		
63.0	61.70	29	92.0	294	141	244	131	226	144	249		
71.0	70.82	25	92.0	256	132	229	128	221	133	231		
80.0	78.03	23	92.0	232	128	222	123	214	129	224		
90.0	89.56	20	92.0	203	124	214	119	205	125	216		
100.0	99.24	18	92.0	186	137	-	126	-	139	-	4	Right angle K (M1): 111 (M5): 111 (M4): 111 Right angle T (M1): 111 (M4): 111
112.0	113.91	16	92.0	162	132	-	121	-	133	-		
125.0	124.94	14	92.0	148	131	-	120	-	132	-		
140.0	143.42	13	92.0	129	126	-	114	-	127	-		
160.0	153.81	12	92.0	120	121	-	115	-	122	-		
180.0	176.55	10	92.0	104	117	-	111	-	118	-		
200.0	193.64	9	92.0	95	115	-	109	-	116	-		
224.0	222.28	8	92.0	83	111	-	104	-	112	-		
250.0	243.16	7	92.0	76	104	-	101	-	104	-		
280.0	279.11	6	92.0	66	100	-	97	-	101	-		
315.0	320.76	6	92.0	58	98	-	95	-	99	-		
355.0	352.99	5	92.0	52	93	-	91	-	93	-		
400.0	405.67	4	92.0	45	91	-	88	-	91	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W13 K/T - 1800 rpm

W13 - n1 = 1800 rpm												115 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	283	91.9	2726	454	785	264	457	341	590	2	(M1): 112 (M5): 112 (M4): 112
7.1	7.35	245	100.3	2572	430	743	258	446	337	583		
8.0	7.64	236	98.6	2431	425	735	242	419	335	579		
9.0	8.84	204	105.7	2253	400	691	231	399	323	558		
10.0	9.71	185	101.8	1976	375	648	258	446	325	562		
11.2	11.23	160	108.6	1823	353	611	244	422	310	537		
12.5	12.19	148	104.7	1619	328	567	256	443	301	520		
14.0	14.10	128	112.1	1499	310	536	243	420	286	495		
16.0	16.09	112	112.0	1372	273	462	215	363	290	490	3	Right angle K (M1): 112 (M5): 112 (M4): 112 Right angle T (M1): 112 (M4): 112
18.0	18.61	97	115.0	1218	262	442	203	343	279	472		
20.0	20.27	89	115.0	1118	265	447	207	350	281	475		
22.4	23.45	77	115.0	967	253	427	194	327	271	458		
25.0	24.45	74	115.0	927	240	406	197	332	253	427		
28.0	28.28	64	115.0	802	230	389	185	313	244	412		
31.5	30.58	59	115.0	741	214	362	188	318	221	373		
35.5	35.38	51	115.0	641	206	348	179	302	214	361		
40.0	38.30	47	115.0	592	206	349	179	302	214	362		
45.0	44.30	41	115.0	512	198	335	169	286	207	349		
50.0	48.09	37	115.0	471	185	313	167	282	190	322		
56.0	55.63	32	115.0	408	179	302	159	269	184	311		
63.0	62.68	29	115.0	362	169	285	159	269	172	290		
71.0	70.35	26	115.0	322	163	275	152	257	166	280		
80.0	79.27	23	115.0	286	157	265	146	247	160	270		
90.0	89.83	20	115.0	257	183	-	153	-	186	-	4	Right angle K (M1): 112 (M5): 112 (M4): 112 Right angle T (M1): 112 (M4): 112
100.0	101.22	18	115.0	228	176	-	146	-	179	-		
112.0	112.54	16	115.0	205	174	-	144	-	176	-		
125.0	126.81	14	115.0	182	167	-	136	-	170	-		
140.0	139.23	13	115.0	166	158	-	145	-	159	-		
160.0	156.87	11	115.0	147	152	-	138	-	154	-		
180.0	174.43	10	115.0	132	150	-	136	-	151	-		
200.0	196.54	9	115.0	117	144	-	130	-	146	-		
224.0	219.03	8	115.0	105	135	-	127	-	135	-		
250.0	246.79	7	115.0	93	130	-	122	-	131	-		
280.0	280.40	6	115.0	82	127	-	119	-	128	-		
315.0	312.12	6	115.0	74	120	-	115	-	120	-		
355.0	354.62	5	115.0	65	117	-	112	-	117	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W14 K/T - 1800 rpm

W14 - n1 = 1800 rpm												132 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.16	251	103.5	2726	459	794	263	454	337	583	2	(M1): 113 (M5): 113 (M4): 113
8.0	8.26	218	112.7	2572	438	758	259	448	337	582		
9.0	8.61	209	111.1	2432	431	746	243	421	335	579		
10.0	9.93	181	118.7	2253	409	707	234	404	326	563		
11.2	10.94	165	114.7	1976	382	660	260	451	328	567		
12.5	12.62	143	122.0	1823	362	626	248	430	315	545		
14.0	13.74	131	118.0	1619	334	578	260	449	305	527		
16.0	15.84	114	126.0	1499	318	549	248	428	292	505		
18.0	18.13	99	127.0	1381	265	458	148	256	286	495	3	Right angle K (M1): 113 (M5): 113 (M4): 113 Right angle T (M1): 113 (M4): 113
20.0	20.90	86	132.0	1245	254	439	141	244	276	478		
22.4	22.84	79	132.0	1139	255	441	144	248	278	480		
25.0	26.34	68	132.0	988	244	422	135	233	268	463		
28.0	27.55	65	132.0	945	230	397	141	243	241	417		
31.5	31.77	57	132.0	819	221	382	132	228	234	404		
35.5	34.46	52	132.0	755	205	353	142	245	211	365		
40.0	39.74	45	132.0	655	198	342	135	233	205	354		
45.0	43.15	42	132.0	603	197	341	134	231	205	354		
50.0	49.76	36	132.0	523	190	329	126	219	198	343		
56.0	54.19	33	132.0	480	177	306	126	218	182	314		
63.0	62.48	29	132.0	417	171	296	121	208	176	305		
71.0	70.40	26	132.0	370	162	279	126	218	164	283		
80.0	79.02	23	132.0	329	156	270	121	209	159	275		
90.0	89.04	20	132.0	292	151	260	117	201	153	265		
100.0	100.91	18	132.0	262	175	-	147	-	178	-	4	Right angle K (M1): 113 (M5): 113 (M4): 113 Right angle T (M1): 113 (M4): 113
112.0	113.70	16	132.0	233	169	-	140	-	172	-		
125.0	126.42	14	132.0	209	166	-	138	-	169	-		
140.0	142.44	13	132.0	186	160	-	131	-	163	-		
160.0	156.39	12	132.0	169	152	-	139	-	153	-		
180.0	176.21	10	132.0	150	146	-	133	-	148	-		
200.0	195.93	9	132.0	135	144	-	131	-	145	-		
224.0	220.77	8	132.0	120	139	-	125	-	140	-		
250.0	246.03	7	132.0	108	129	-	122	-	130	-		
280.0	277.22	6	132.0	95	125	-	117	-	125	-		
315.0	314.97	6	132.0	84	122	-	114	-	123	-		
355.0	350.60	5	132.0	75	115	-	111	-	115	-		
400.0	398.34	5	132.0	66	112	-	108	-	113	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W15 K/T - 1800 rpm

W15 - n1 = 1800 rpm												158 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	283	119.4	3543	511	883	266	459	359	621	2	(M1): 114 (M5): 114 (M4): 114
7.1	7.41	243	136.2	3463	485	839	266	460	363	627		
8	7.64	236	132.4	3267	480	831	274	474	371	642		
9	8.91	202	142.4	3012	451	780	262	453	360	622		
10	9.7	186	138.2	2684	432	747	268	464	360	623		
11.2	11.32	159	147.9	2462	405	700	253	438	343	594		
12.5	12.18	148	142.5	2204	383	662	277	478	342	592		
14	14.22	127	153.0	2028	360	623	261	451	325	562		
16	15.48	116	125	1592	305	527	223	385	332	574	3	Right angle K (M1): 114 (M5): 114 (M4): 114 Right angle T (M1): 114 (M4): 114
18	18.07	100	145	1582	291	502	216	373	316	545		
20	19.51	92	155	1566	295	509	223	386	318	549		
22.4	22.77	79	158	1368	280	484	210	364	304	525		
25	24.41	74	158	1276	264	455	223	385	275	475		
28	28.49	63	158	1093	253	437	210	364	265	458		
31.5	30.56	59	158	1019	234	405	211	364	241	416		
35.5	35.67	50	158	873	226	391	201	347	233	402		
40	38.23	47	158	815	222	384	199	343	229	395		
45	44.63	40	158	698	214	370	189	326	221	382		
50	48.01	37	158	649	200	345	184	319	204	353		
56	56.04	32	158	556	193	334	176	305	198	341		
63	63.19	28	158	493	183	316	174	301	185	319		
71	70.87	25	158	440	177	305	168	290	179	309		
80	79.92	23	158	390	173	299	164	283	175	303		
90	90.49	20	158	350	196	-	172	-	198	-	4	Right angle K (M1): 114 (M5): 114 (M4): 114 Right angle T (M1): 114 (M4): 114
100	102.05	18	158	310	191	-	166	-	194	-		
112	113.38	16	158	279	186	-	162	-	189	-		
125	127.85	14	158	248	182	-	156	-	185	-		
140	140.25	13	158	226	170	-	159	-	171	-		
160	158.16	11	158	200	166	-	155	-	167	-		
180	175.72	10	158	180	162	-	150	-	163	-		
200	198.15	9	158	160	158	-	146	-	159	-		
224	220.64	8	158	144	145	-	139	-	146	-		
250	248.82	7	158	127	142	-	136	-	143	-		
280	282.7	6	158	112	140	-	133	-	141	-		
315	314.68	6	158	101	132	-	128	-	132	-		
355	357.53	5	158	89	129	-	125	-	129	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W16 K/T - 1800 rpm

W16 - n1 = 1800 rpm												178 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.11	253	134	3543	512	886	263	455	352	609	2	(M1): 115 (M5): 115 (M4): 115
8	8.27	218	152	3463	488	845	265	459	359	621		
9	8.55	211	148	3267	484	838	274	474	369	638		
10	9.95	181	159	3012	455	788	263	455	359	621		
11.2	10.86	166	155	2684	437	756	270	467	361	625		
12.5	12.64	142	165	2462	410	709	255	442	345	597		
14	13.64	132	159	2204	388	671	279	483	345	597		
16	15.87	113	171	2028	365	632	264	457	328	568		
18	17.33	104	140	1593	309	535	227	392	337	582	3	Right angle K (M1): 115 (M5): 115 (M4): 115 Right angle T (M1): 115 (M4): 115
20	20.17	89	160	1564	295	509	219	379	319	552		
22.4	21.84	82	170	1535	299	517	228	395	321	556		
25	25.41	71	178	1381	284	491	214	370	308	532		
28	27.32	66	178	1284	267	462	226	391	279	482		
31.5	31.79	57	178	1104	256	443	214	369	269	464		
35.5	34.21	53	178	1026	238	411	214	370	244	422		
40	39.8	45	178	882	229	396	204	352	236	408		
45	42.8	42	178	820	226	390	202	349	232	401		
50	49.8	36	178	705	217	375	192	331	224	387		
56	53.74	33	178	653	203	351	187	324	207	358		
63	62.53	29	178	561	196	338	179	310	200	346		
71	70.52	26	178	498	185	320	177	306	187	324		
80	79.09	23	178	444	179	310	170	294	181	314		
90	89.19	20	178	393	175	303	166	287	178	308		
100	100.99	18	178	353	198	-	174	-	201	-	4	Right angle K (M1): 115 (M5): 115 (M4): 115 Right angle T (M1): 115 (M4): 115
112	113.88	16	178	313	194	-	169	-	196	-		
125	126.52	14	178	282	189	-	165	-	191	-		
140	142.68	13	178	250	184	-	159	-	187	-		
160	156.52	12	178	228	172	-	161	-	173	-		
180	176.5	10	178	202	168	-	157	-	169	-		
200	196.09	9	178	182	164	-	153	-	165	-		
224	221.13	8	178	161	160	-	148	-	161	-		
250	246.23	7	178	145	147	-	141	-	148	-		
280	277.67	6	178	129	144	-	138	-	145	-		
315	315.48	6	178	113	142	-	135	-	143	-		
355	351.17	5	178	102	134	-	130	-	134	-		
400	398.99	5	178	89	131	-	127	-	131	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W01 K/T - 1500 rpm

W01 - n1 = 1500 rpm												7.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.26	239	7.1	178	77	121	74	116	76	119	2	(M1): 116 (M5): 116 (M4): 116
7.1	7.25	207	7.5	163	74	115	71	110	73	113		
8.0	7.66	196	7.3	150	75	118	73	113	75	116		
9.0	8.86	169	7.5	133	72	112	69	108	71	111		
10.0	9.71	154	7.0	113	65	101	64	99	64	101		
11.2	11.23	134	7.5	105	62	97	61	95	62	96		
12.5	12.19	123	7.1	92	59	91	58	90	58	91		
14.0	14.10	106	7.5	84	56	87	55	86	56	87		
16.0	15.66	96	7.2	72	39	61	39	60	39	61	3	Right angle K (M1): 116 (M5): 116 (M4): 116 Right angle T (M1): 116 (M4): 116
18.0	18.12	83	7.5	65	38	59	37	58	37	58		
20.0	19.93	75	7.5	59	39	60	38	59	38	60		
22.4	23.06	65	7.5	51	37	58	36	56	37	57		
25.0	24.76	61	7.5	48	37	57	36	56	37	57		
28.0	28.64	52	7.5	41	35	55	35	54	35	55		
31.5	30.89	49	7.5	38	32	50	32	49	32	50		
35.5	35.73	42	7.5	33	31	48	31	48	31	48		
40.0	38.38	39	7.5	31	31	48	30	47	31	48		
45.0	44.39	34	7.5	27	30	46	29	46	30	46		
50.0	48.19	31	7.5	24	27	42	27	42	27	42		
56.0	55.74	27	7.5	21	26	41	26	41	26	41		
63.0	63.09	24	7.5	19	26	40	26	40	26	40		
71.0	70.49	21	7.5	17	24	38	24	38	24	38		
80.0	79.79	19	7.5	15	24	37	23	37	24	37		

Notes: when the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T, 3 stages only.

W02 K/T - 1500 rpm

W02 - n1 = 1500 rpm												9.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8.0	7.85	191	8.9	178	82	128	78	122	80	125	2	(M1): 117 (M5): 117 (M4): 117
9.0	9.03	166	9.5	165	78	122	75	116	76	119		
10.0	9.60	156	9.2	150	80	125	77	120	79	123		
11.2	11.04	136	9.5	135	76	118	73	114	75	117		
12.5	12.17	123	8.8	113	69	107	67	104	68	106		
14.0	14.00	107	9.5	107	65	102	64	100	65	101		
16.0	15.28	98	8.9	92	62	96	61	94	61	95		
18.0	17.58	85	9.5	85	59	92	58	90	58	91		
20.0	19.63	76	9.5	76	43	67	42	66	42	66	3	Right angle K (M1): 117 (M5): 117 (M4): 117 Right angleT (M1): 117 (M4): 117
22.4	22.58	66	9.5	66	41	64	40	63	41	64		
25.0	24.99	60	9.5	60	42	66	41	64	42	65		
28.0	28.74	52	9.5	52	40	63	40	62	40	63		
31.5	31.04	48	9.5	48	40	63	39	62	40	63		
35.5	35.70	42	9.5	42	39	60	38	59	38	60		
40.0	38.73	39	9.5	39	35	54	35	54	35	54		
45.0	44.55	34	9.5	33	34	53	33	52	34	52		
50.0	48.10	31	9.5	31	33	52	33	52	33	52		
56.0	55.33	27	9.5	27	32	50	32	50	32	50		
63.0	60.40	25	9.5	25	30	46	30	46	30	46		
71.0	69.48	22	9.5	21	29	45	29	45	29	45		
80.0	78.65	19	9.5	19	28	44	28	43	28	44		
90.0	87.87	17	9.5	17	26	41	26	41	26	41		
100.0	99.46	15	9.5	15	26	40	26	40	26	40		

Notes: when the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T, 3 stages only.

W03 K/T - 1500 rpm

W03 - n1 = 1500 rpm												13 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.26	239	11.4	286	108	169	102	159	106	165	2	(M1): 118 (M5): 118 (M4): 118
7.1	7.25	207	12.9	279	103	161	97	152	101	158		
8.0	7.64	196	12.5	257	106	166	100	157	104	163		
9.0	8.84	170	13.0	231	101	157	95	148	99	154		
10.0	9.71	154	12.8	206	95	148	92	143	94	147		
11.2	11.23	134	13.0	182	90	141	87	136	89	139		
12.5	12.19	123	11.7	151	83	130	81	127	82	129		
14.0	14.10	106	13.0	145	79	124	77	121	79	123		
16.0	15.66	96	13.0	130	55	86	54	84	55	85	3	Right angle K (M1): 118 (M5): 118 (M4): 118 Right angle T (M1): 118 (M4): 118
18.0	18.12	83	13.0	113	53	83	52	81	52	82		
20.0	19.93	75	13.0	102	53	83	52	81	53	83		
22.4	23.06	65	13.0	89	51	80	50	78	51	79		
25.0	24.69	61	13.0	83	51	80	50	78	51	79		
28.0	28.56	53	13.0	71	49	77	48	74	49	76		
31.5	30.89	49	13.0	66	46	71	45	71	46	71		
35.5	35.73	42	13.0	57	44	69	44	68	44	69		
40.0	38.27	39	13.0	53	44	69	43	68	44	68		
45.0	44.26	34	13.0	46	42	66	42	65	42	66		
50.0	48.05	31	13.0	42	39	60	38	60	39	60		
56.0	55.58	27	13.0	37	37	58	37	58	37	58		
63.0	63.46	24	13.0	32	37	58	37	58	37	58		
71.0	70.29	21	13.0	29	35	55	35	54	35	55		
80.0	80.26	19	13.0	25	35	54	35	54	35	54		
90.0	90.44	17	13.0	23	33	-	33	-	33	-	4	Right angle K (M1): 118 (M5): 118 (M4): 118 Right angle T (M1): 118 (M4): 118
100.0	103.26	15	13.0	20	33	-	33	-	33	-		
112.0	112.65	13	13.0	18	32	-	31	-	32	-		
125.0	128.62	12	13.0	16	31	-	31	-	31	-		
140.0	140.16	11	13.0	15	30	-	29	-	30	-		
160.0	160.04	9	13.0	13	29	-	29	-	29	-		
180.0	174.59	9	13.0	12	28	-	28	-	28	-		
200.0	199.35	8	13.0	10	28	-	28	-	28	-		
224.0	219.23	7	13.0	9	24	-	24	-	24	-		
250.0	250.32	6	13.0	8	24	-	24	-	24	-		
280.0	284.06	5	13.0	7	24	-	24	-	24	-		
315.0	316.58	5	13.0	6	24	-	24	-	24	-		
355.0	359.25	4	13.0	6	24	-	23	-	24	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W04 K/T - 1500 rpm

W04 - n1 = 1500 rpm												16.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8.0	7.85	191	14.3	286	122	190	113	177	118	184	2	(M1): 119 (M5): 119 (M4): 119
9.0	9.03	166	16.0	279	116	181	108	169	112	176		
10.0	9.58	157	15.7	257	119	186	112	175	116	182		
11.2	11.02	136	16.5	235	113	176	106	166	110	173		
12.5	12.17	123	16.0	206	106	166	102	160	105	164		
14.0	14.00	107	16.5	185	101	157	97	152	100	156		
16.0	15.28	98	14.7	151	93	145	91	141	92	144		
18.0	17.58	85	16.5	147	88	138	86	135	88	137		
20.0	19.63	76	16.5	132	60	93	58	91	59	92	3	Right angle K (M1): 119 (M5): 119 (M4): 119 Right angle T (M1): 119 (M4): 119
22.4	22.58	66	16.5	115	57	90	56	87	57	88		
25.0	24.99	60	16.5	104	58	90	56	88	57	89		
28.0	28.74	52	16.5	90	56	86	54	84	55	86		
31.5	30.95	48	16.5	84	56	86	54	84	55	86		
35.5	35.60	42	16.5	73	53	83	52	80	53	82		
40.0	38.73	39	16.5	67	49	77	49	76	49	77		
45.0	44.55	34	16.5	58	48	74	47	73	47	74		
50.0	47.97	31	16.5	54	47	74	47	73	47	74		
56.0	55.18	27	16.5	47	46	71	45	70	45	71		
63.0	60.23	25	16.5	43	42	65	41	64	42	65		
71.0	69.28	22	16.5	37	40	63	40	62	40	62		
80.0	79.11	19	16.5	33	40	63	40	62	40	63		
90.0	87.62	17	16.5	30	38	59	37	58	38	58		
100.0	100.05	15	16.5	26	37	58	37	58	37	58		
112.0	112.74	13	16.5	23	36	-	36	-	36	-	4	Right angle K (M1): 119 (M5): 119 (M4): 119 Right angle T (M1): 119 (M4): 119
125.0	128.72	12	16.5	20	36	-	36	-	36	-		
140.0	140.43	11	16.5	18	34	-	34	-	34	-		
160.0	160.34	9	16.5	16	34	-	34	-	34	-		
180.0	174.73	9	16.5	15	32	-	32	-	32	-		
200.0	199.50	8	16.5	13	32	-	32	-	32	-		
224.0	217.64	7	16.5	12	30	-	30	-	30	-		
250.0	248.50	6	16.5	10	30	-	30	-	30	-		
280.0	273.29	5	16.5	9	26	-	26	-	26	-		
315.0	312.04	5	16.5	8	26	-	26	-	26	-		
355.0	354.10	4	16.5	7	26	-	26	-	26	-		
400.0	394.63	4	16.5	7	26	-	26	-	26	-		
450.0	447.84	3	16.5	6	25	-	25	-	25	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W05 K/T - 1500 rpm

W05 - n1 = 1500 rpm												22 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.26	239	21.9	551	173	269	153	239	164	256	2	(M1): 120 (M5): 120 (M4): 120
7.1	7.25	207	22.0	477	161	251	143	222	153	239		
8.0	7.64	196	22.0	452	159	249	143	224	153	239		
9.0	8.84	170	22.0	391	149	233	134	209	144	224		
10.0	9.71	154	21.3	345	137	213	129	201	134	209		
11.2	11.23	134	22.0	308	128	200	121	189	126	196		
12.5	12.19	123	19.7	254	116	182	112	175	115	179		
14.0	14.10	106	22.0	245	110	172	107	166	109	170		
16.0	16.03	94	19.2	197	92	143	88	136	92	143	3	Right angle K (M1): 120 (M5): 120 (M4): 120 Right angle T (M1): 120 (M4): 120
18.0	18.54	81	22.0	195	87	136	83	130	87	136		
20.0	20.22	74	22.0	179	89	138	85	133	89	139		
22.4	23.39	64	22.0	155	86	133	82	128	86	134		
25.0	25.10	60	22.0	144	88	138	85	133	89	138		
28.0	29.04	52	22.0	124	85	133	82	127	85	133		
31.5	30.89	49	22.0	117	69	108	69	107	70	108		
35.5	35.73	42	22.0	101	67	105	67	104	68	105		
40.0	38.35	39	22.0	94	68	105	67	104	68	105		
45.0	44.36	34	22.0	81	66	102	65	101	66	102		
50.0	48.16	31	22.0	75	61	94	60	94	61	95		
56.0	55.70	27	22.0	65	59	92	58	91	59	92		
63.0	63.46	24	22.0	57	61	94	60	94	61	95		
71.0	70.45	21	22.0	51	55	85	54	84	55	85		
80.0	80.26	19	22.0	45	53	82	52	82	53	82		
90.0	91.07	16	22.0	40	59	-	57	-	59	-	4	Right angle K (M1): 120 (M5): 120 (M4): 120 Right angle T (M1): 120 (M4): 120
100.0	103.75	14	22.0	35	57	-	55	-	57	-		
112.0	113.13	13	22.0	32	56	-	55	-	56	-		
125.0	128.88	12	22.0	29	54	-	53	-	54	-		
140.0	141.15	11	22.0	26	50	-	49	-	50	-		
160.0	160.80	9	22.0	23	48	-	48	-	48	-		
180.0	175.33	9	22.0	21	48	-	47	-	48	-		
200.0	199.75	8	22.0	18	46	-	46	-	46	-		
224.0	220.16	7	22.0	17	45	-	45	-	45	-		
250.0	250.82	6	22.0	15	43	-	43	-	43	-		
280.0	283.90	5	22.0	13	41	-	40	-	41	-		
315.0	317.21	5	22.0	12	38	-	38	-	38	-		
355.0	359.05	4	22.0	10	37	-	37	-	37	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W06 K/T - 1500 rpm

W06 - n1 = 1500 rpm												28 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8.0	7.85	191	27.5	551	195	304	171	267	183	285	2	(M1): 121 (M5): 121 (M4): 121
9.0	9.03	166	28.0	487	181	283	160	249	172	267		
10.0	9.58	157	28.0	459	181	282	162	252	173	269		
11.2	11.02	136	28.0	399	168	262	150	235	161	252		
12.5	12.17	123	26.7	345	154	241	145	226	151	235		
14.0	14.00	107	28.0	314	144	225	136	212	141	220		
16.0	15.28	98	24.7	254	131	205	126	197	129	202		
18.0	17.58	85	28.0	250	124	193	120	187	123	191		
20.0	20.09	75	24.0	196	98	153	94	146	99	154	3	Right angle K (M1): 121 (M5): 121 (M4): 121 Right angle T (M1): 121 (M4): 121
22.4	23.11	65	27.0	192	93	146	89	139	94	146		
25.0	25.35	59	28.0	181	95	148	91	142	95	148		
28.0	29.16	51	28.0	158	91	142	88	137	92	143		
31.5	31.47	48	28.0	146	95	148	91	142	95	148		
35.5	36.19	41	28.0	127	91	142	87	136	91	142		
40.0	38.73	39	28.0	119	74	116	73	114	74	116		
45.0	44.55	34	28.0	103	72	112	71	111	72	113		
50.0	48.08	31	28.0	96	72	113	71	111	72	113		
56.0	55.30	27	28.0	83	70	109	69	108	70	109		
63.0	60.37	25	28.0	76	65	101	64	100	65	101		
71.0	69.44	22	28.0	66	63	98	62	97	63	98		
80.0	79.11	19	28.0	58	60	94	60	93	60	94		
90.0	87.82	17	28.0	52	58	91	58	90	58	91		
100.0	100.05	15	28.0	46	57	88	56	87	57	88		
112.0	113.53	13	28.0	41	63	-	61	-	63	-	4	Right angle K (M1): 121 (M5): 121 (M4): 121 Right angle T (M1): 121 (M4): 121
125.0	129.34	12	28.0	36	61	-	59	-	61	-		
140.0	141.02	11	28.0	33	60	-	59	-	60	-		
160.0	160.66	9	28.0	29	58	-	57	-	58	-		
180.0	175.95	9	28.0	27	53	-	53	-	53	-		
200.0	200.45	7	28.0	23	51	-	51	-	51	-		
224.0	218.57	7	28.0	21	51	-	51	-	51	-		
250.0	249.00	6	28.0	19	49	-	49	-	49	-		
280.0	274.45	5	28.0	17	46	-	46	-	46	-		
315.0	312.66	5	28.0	15	45	-	44	-	45	-		
355.0	353.90	4	28.0	13	43	-	43	-	43	-		
400.0	395.43	4	28.0	12	41	-	41	-	41	-		
450.0	447.58	3	28.0	10	40	-	40	-	40	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W07 K/T - 1500 rpm

W07 - n1 = 1500 rpm												36 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	236	31.3	774	278	434	227	354	254	396	2	(M1): 122 (M5): 122 (M4): 122
7.1	7.35	204	33.5	717	260	405	214	334	240	374		
8.0	7.64	196	32.8	675	260	405	219	342	243	379		
9.0	8.84	170	35.2	625	243	378	206	321	229	356		
10.0	9.71	154	33.5	543	227	353	204	318	218	340		
11.2	11.23	134	35.8	501	212	331	192	299	205	320		
12.5	12.19	123	34.4	444	197	307	184	287	192	300		
14.0	14.10	106	36.0	401	185	289	173	269	181	282		
16.0	15.89	94	31.0	321	146	227	134	209	147	230	3	Right angle K (M1): 122 (M5): 122 (M4): 122 Right angle T (M1): 122 (M4): 122
18.0	18.38	82	35.0	313	138	216	128	200	140	219		
20.0	19.89	75	36.0	297	139	216	129	202	140	219		
22.4	23.01	65	36.0	257	132	207	123	193	134	209		
25.0	25.05	60	36.0	236	124	194	119	186	125	195		
28.0	28.97	52	36.0	204	120	187	115	180	121	188		
31.5	30.39	49	36.0	195	109	170	107	166	110	171		
35.5	35.16	43	36.0	168	106	165	103	161	106	166		
40.0	38.27	39	36.0	155	103	161	100	156	103	161		
45.0	44.26	34	36.0	134	100	156	97	151	100	156		
50.0	48.05	31	36.0	123	90	141	89	139	91	141		
56.0	55.58	27	36.0	106	88	137	86	135	88	138		
63.0	63.88	23	36.0	93	83	130	83	129	84	130		
71.0	70.29	21	36.0	84	81	127	80	125	81	127		
80.0	80.78	19	36.0	73	80	125	79	124	80	126		
90.0	90.87	17	36.0	66	87	-	84	-	87	-	4	Right angle K (M1): 122 (M5): 122 (M4): 122 Right angle T (M1): 122 (M4): 122
100.0	104.43	14	36.0	58	86	-	83	-	87	-		
112.0	112.56	13	36.0	53	84	-	81	-	84	-		
125.0	129.36	12	36.0	47	83	-	80	-	83	-		
140.0	140.84	11	36.0	43	76	-	75	-	76	-		
160.0	161.86	9	36.0	37	75	-	74	-	75	-		
180.0	174.45	9	36.0	34	73	-	72	-	73	-		
200.0	200.48	7	36.0	30	72	-	71	-	72	-		
224.0	219.05	7	36.0	27	65	-	65	-	65	-		
250.0	251.74	6	36.0	24	65	-	64	-	65	-		
280.0	287.44	5	36.0	21	64	-	63	-	64	-		
315.0	318.38	5	36.0	19	60	-	60	-	60	-		
355.0	363.52	4	36.0	17	59	-	59	-	59	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W08 K/T - 1500 rpm

W08 - n1 = 1500 rpm												46 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8.0	7.97	188	39.3	774	292	455	235	366	262	408	2	(M1): 123 (M5): 123 (M4): 123
9.0	9.16	164	41.8	717	272	424	222	346	248	387		
10.0	9.58	157	41.2	675	273	426	228	356	253	394		
11.2	11.02	136	43.8	625	255	397	215	335	238	371		
12.5	12.17	123	42.1	543	238	372	213	333	228	356		
14.0	14.00	107	44.6	501	223	348	200	313	214	335		
16.0	15.28	98	43.2	444	207	323	193	301	202	315		
18.0	17.58	85	46.0	411	195	304	182	283	190	297		
20.0	19.92	75	38.0	313	150	234	139	217	151	236	3	Right angle K (M1): 123 (M5): 123 (M4): 123 Right angle T (M1): 123 (M4): 123
22.4	22.91	65	43.0	308	143	223	133	208	145	226		
25.0	24.94	60	46.0	303	144	224	135	210	145	226		
28.0	28.68	52	46.0	263	138	215	129	201	140	218		
31.5	31.40	48	46.0	241	129	202	125	194	130	203		
35.5	36.11	42	46.0	209	125	195	120	187	126	196		
40.0	38.10	39	46.0	198	114	178	111	173	114	178		
45.0	43.83	34	46.0	172	110	172	108	168	111	173		
50.0	47.97	31	46.0	158	107	167	105	163	108	168		
56.0	55.18	27	46.0	137	104	162	101	158	104	163		
63.0	60.23	25	46.0	125	94	147	93	145	95	147		
71.0	69.28	22	46.0	109	92	143	90	141	92	143		
80.0	79.63	19	46.0	95	87	136	86	135	87	136		
90.0	87.62	17	46.0	86	85	132	84	131	85	132		
100.0	100.70	15	46.0	75	84	131	83	129	84	131		
112.0	113.28	13	46.0	68	91	-	88	-	91	-	4	Right angle K (M1): 123 (M5): 123 (M4): 123 Right angle T (M1): 123 (M4): 123
125.0	130.18	12	46.0	59	90	-	87	-	90	-		
140.0	140.31	11	46.0	55	87	-	84	-	88	-		
160.0	161.25	9	46.0	48	86	-	83	-	87	-		
180.0	175.56	9	46.0	44	79	-	78	-	79	-		
200.0	201.76	7	46.0	38	78	-	77	-	78	-		
224.0	217.46	7	46.0	35	76	-	75	-	76	-		
250.0	249.92	6	46.0	31	75	-	74	-	75	-		
280.0	273.06	5	46.0	28	68	-	67	-	68	-		
315.0	313.82	5	46.0	24	67	-	67	-	67	-		
355.0	358.31	4	46.0	21	67	-	66	-	67	-		
400.0	396.89	4	46.0	19	63	-	62	-	63	-		
450.0	453.16	3	46.0	17	62	-	61	-	62	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W09 K/T - 1500 rpm

W09 - n1 = 1500 rpm												58.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	236	44.7	1106	304	479	235	371	266	420	2	(M1): 124 (M5): 124 (M4): 124
7.1	7.35	204	51.7	1106	286	451	228	360	258	406		
8.0	7.64	196	54.1	1112	285	449	232	366	261	411		
9.0	8.84	170	58.5	1038	267	421	220	346	247	390		
10.0	9.71	154	55.3	895	247	389	217	343	235	370		
11.2	11.23	134	58.5	817	232	366	205	323	222	350		
12.5	12.19	123	58.5	752	217	343	200	315	211	333		
14.0	14.10	106	58.5	651	204	322	187	295	198	313		
16.0	15.79	95	50.0	520	163	254	149	232	165	257	3	Right angle K (M1): 124 (M5): 124 (M4): 124 Right angle T (M1): 124 (M4): 124
18.0	18.26	82	57.0	513	155	242	143	222	157	245		
20.0	19.69	76	58.5	488	155	243	144	225	157	246		
22.4	22.77	66	58.5	422	150	234	138	216	152	237		
25.0	24.67	61	58.5	390	148	231	139	216	149	233		
28.0	28.53	53	58.5	337	143	223	133	207	145	226		
31.5	30.52	49	58.5	315	129	201	124	194	129	202		
35.5	35.30	42	58.5	272	125	195	120	187	126	196		
40.0	38.23	39	58.5	251	121	189	117	182	122	190		
45.0	44.22	34	58.5	217	117	183	113	176	118	185		
50.0	48.01	31	58.5	200	106	166	104	162	107	166		
56.0	55.53	27	58.5	173	103	161	101	157	104	162		
63.0	63.09	24	58.5	152	97	152	96	150	98	152		
71.0	70.23	21	58.5	137	95	148	93	146	95	148		
80.0	79.79	19	58.5	120	94	146	92	144	94	147		
90.0	90.78	17	58.5	108	103	-	99	-	103	-	4	Right angle K (M1): 124 (M5): 124 (M4): 124 Right angle T (M1): 124 (M4): 124
100.0	103.15	15	58.5	95	102	-	98	-	102	-		
112.0	112.70	13	58.5	87	100	-	96	-	100	-		
125.0	128.05	12	58.5	76	99	-	95	-	99	-		
140.0	140.70	11	58.5	69	89	-	87	-	89	-		
160.0	159.86	9	58.5	61	88	-	86	-	88	-		
180.0	174.67	9	58.5	56	86	-	85	-	86	-		
200.0	198.46	8	58.5	49	85	-	84	-	85	-		
224.0	219.33	7	58.5	45	79	-	78	-	79	-		
250.0	249.20	6	58.5	39	78	-	77	-	78	-		
280.0	283.90	5	58.5	34	76	-	75	-	76	-		
315.0	315.17	5	58.5	31	73	-	72	-	73	-		
355.0	359.05	4	58.5	27	71	-	70	-	71	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W10 K/T - 1500 rpm

W10 - n1 = 1500 rpm											67 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.16	209	50.4	1106	314	489	240	374	271	423	2	(M1): 125 (M5): 125 (M4): 125
8.0	8.26	182	58.1	1106	295	461	234	365	264	411		
9.0	8.61	174	61.0	1112	295	459	238	371	268	418		
10.0	9.93	151	67.0	1060	276	431	227	354	255	397		
11.2	10.94	137	62.4	895	255	398	224	349	242	377		
12.5	12.62	119	67.0	834	240	374	212	330	229	357		
14.0	13.74	109	65.9	753	225	351	206	322	218	340		
16.0	15.84	95	67.0	664	212	330	194	302	205	320		
18.0	17.79	84	56.0	517	153	238	138	215	155	242	3	Right angle K (M1): 125 (M5): 125 (M4): 125 Right angle T (M1): 125 (M4): 125
20.0	20.51	73	64.0	513	145	227	132	207	148	230		
22.4	22.18	68	67.0	496	163	255	152	237	165	258		
25.0	25.58	59	67.0	430	157	245	146	228	159	248		
28.0	27.79	54	67.0	396	152	236	142	222	153	239		
31.5	32.05	47	67.0	343	146	228	136	213	148	231		
35.5	34.38	44	67.0	320	132	206	128	199	133	207		
40.0	39.65	38	67.0	278	128	199	123	192	129	201		
45.0	43.08	35	67.0	256	124	194	120	187	125	195		
50.0	49.67	30	67.0	222	120	188	116	180	121	189		
56.0	54.09	28	67.0	204	109	170	107	166	109	171		
63.0	62.37	24	67.0	176	106	165	103	161	106	166		
71.0	70.87	21	67.0	155	100	156	99	154	100	156		
80.0	78.88	19	67.0	140	97	152	96	149	97	152		
90.0	89.63	17	67.0	123	96	150	95	148	96	150		
100.0	101.98	15	67.0	110	105	-	102	-	105	-	4	Right angle K (M1): 125 (M5): 125 (M4): 125 Right angle T (M1): 125 (M4): 125
112.0	115.86	13	67.0	97	104	-	100	-	104	-		
125.0	126.60	12	67.0	88	102	-	99	-	102	-		
140.0	143.84	10	67.0	78	101	-	97	-	101	-		
160.0	158.05	9	67.0	71	91	-	90	-	91	-		
180.0	179.57	8	67.0	62	90	-	89	-	90	-		
200.0	196.21	8	67.0	57	88	-	87	-	89	-		
224.0	222.93	7	67.0	50	88	-	86	-	88	-		
250.0	246.38	6	67.0	45	81	-	80	-	81	-		
280.0	279.93	5	67.0	40	80	-	79	-	80	-		
315.0	318.90	5	67.0	35	78	-	77	-	78	-		
355.0	354.02	4	67.0	32	75	-	74	-	75	-		
400.0	403.32	4	67.0	28	73	-	72	-	73	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W11 K/T - 1500 rpm

W11 - n1 = 1500 rpm												80 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	236	59.1	1461	362	564	265	413	308	479	2	(M1): 126 (M5): 126 (M4): 126
7.1	7.35	204	68.4	1461	343	535	260	406	302	470		
8.0	7.64	196	69.4	1426	345	539	252	392	304	474		
9.0	8.84	170	74.3	1319	325	506	238	372	290	452		
10.0	9.71	154	71.0	1148	300	467	245	382	278	434		
11.2	11.23	134	75.8	1060	283	441	232	362	264	412		
12.5	12.19	123	72.5	935	257	401	230	358	247	385		
14.0	14.10	106	77.7	865	244	380	218	340	235	366		
16.0	15.89	94	73.0	755	211	329	184	287	217	338	3	Right angle K (M1): 126 (M5): 126 (M4): 126 Right angle T (M1): 126 (M4): 126
18.0	18.38	82	80.0	715	201	314	177	276	207	322		
20.0	20.22	74	80.0	650	202	315	179	279	207	323		
22.4	23.39	64	80.0	562	195	304	170	265	200	312		
25.0	24.75	61	80.0	531	191	298	172	268	195	305		
28.0	28.63	52	80.0	459	184	287	164	255	189	295		
31.5	30.89	49	80.0	425	169	264	158	247	172	268		
35.5	35.73	42	80.0	368	164	256	152	237	167	260		
40.0	37.82	40	80.0	348	160	250	149	232	163	254		
45.0	43.74	34	80.0	300	155	242	143	223	158	246		
50.0	47.48	32	80.0	277	142	222	136	211	144	225		
56.0	54.92	27	80.0	239	138	216	131	204	140	218		
63.0	63.05	24	80.0	208	129	201	126	196	130	202		
71.0	69.46	22	80.0	189	125	196	122	190	126	197		
80.0	79.73	19	80.0	165	121	189	117	183	122	190		
90.0	88.35	17	80.0	151	134	-	126	-	134	-	4	Right angle K (M1): 126 (M5): 126 (M4): 126 Right angle T (M1): 126 (M4): 126
100.0	101.41	15	80.0	132	129	-	121	-	130	-		
112.0	111.23	13	80.0	120	128	-	120	-	128	-		
125.0	127.68	12	80.0	105	123	-	114	-	123	-		
140.0	136.93	11	80.0	98	118	-	114	-	118	-		
160.0	157.17	10	80.0	85	114	-	109	-	114	-		
180.0	172.39	9	80.0	78	112	-	108	-	113	-		
200.0	197.88	8	80.0	68	108	-	104	-	109	-		
224.0	216.47	7	80.0	62	101	-	99	-	101	-		
250.0	248.47	6	80.0	54	98	-	95	-	98	-		
280.0	285.56	5	80.0	47	96	-	93	-	96	-		
315.0	314.25	5	80.0	43	91	-	89	-	91	-		
355.0	361.15	4	80.0	37	89	-	87	-	89	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W12 K/T - 1500 rpm

W12 - n1 = 1500 rpm												92 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.16	209	66.6	1461	371	579	268	418	311	485	2	(M1): 127 (M5): 127 (M4): 127
8.0	8.26	182	76.8	1461	353	550	265	413	306	478		
9.0	8.61	174	78.2	1426	356	555	257	401	310	483		
10.0	9.93	151	83.5	1321	334	521	244	381	296	462		
11.2	10.94	137	80.0	1149	309	481	251	392	285	444		
12.5	12.62	119	85.2	1061	291	454	238	371	271	423		
14.0	13.74	109	81.8	935	265	413	236	368	254	396		
16.0	15.84	95	87.4	867	251	391	224	350	241	377		
18.0	17.90	84	82.0	753	214	334	186	291	220	344	3	Right angle K (M1): 127 (M5): 127 (M4): 127 Right angle T (M1): 127 (M4): 127
20.0	20.64	73	92.0	732	204	319	179	280	210	327		
22.4	22.78	66	92.0	663	205	319	181	283	210	327		
25.0	26.27	57	92.0	575	197	308	173	270	203	316		
28.0	27.89	54	92.0	542	194	302	174	272	198	309		
31.5	32.16	47	92.0	470	187	291	166	260	191	299		
35.5	34.81	43	92.0	434	172	268	161	251	174	272		
40.0	40.14	37	92.0	377	166	259	154	241	169	263		
45.0	42.61	35	92.0	355	162	253	151	236	165	257		
50.0	49.13	31	92.0	308	157	245	145	226	160	249		
56.0	53.50	28	92.0	283	145	226	138	215	146	228		
63.0	61.70	24	92.0	245	140	219	133	207	142	221		
71.0	70.82	21	92.0	213	131	204	128	199	132	205		
80.0	78.03	19	92.0	194	127	198	124	193	128	200		
90.0	89.56	17	92.0	169	123	191	119	186	123	193		
100.0	99.24	15	92.0	155	135	-	128	-	136	-	4	Right angle K (M1): 127 (M5): 127 (M4): 127 Right angle T (M1): 127 (M4): 127
112.0	113.91	13	92.0	135	131	-	122	-	131	-		
125.0	124.94	12	92.0	123	129	-	121	-	130	-		
140.0	143.42	10	92.0	107	124	-	116	-	125	-		
160.0	153.81	10	92.0	100	120	-	115	-	120	-		
180.0	176.55	8	92.0	87	115	-	111	-	116	-		
200.0	193.64	8	92.0	79	114	-	110	-	114	-		
224.0	222.28	7	92.0	69	110	-	105	-	110	-		
250.0	243.16	6	92.0	63	103	-	100	-	103	-		
280.0	279.11	5	92.0	55	99	-	97	-	99	-		
315.0	320.76	5	92.0	48	97	-	95	-	98	-		
355.0	352.99	4	92.0	44	92	-	91	-	92	-		
400.0	405.67	4	92.0	38	90	-	88	-	90	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W13 K/T - 1500 rpm

W13 - n1 = 1500 rpm											115 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	236	93.0	2301	468	730	311	484	380	592	2	(M1): 128 (M5): 128 (M4): 128
7.1	7.35	204	105.9	2264	443	691	305	476	374	583		
8.0	7.64	196	104.1	2140	442	689	291	455	373	582		
9.0	8.84	170	111.6	1983	415	647	277	432	357	556		
10.0	9.71	154	107.5	1739	387	603	295	461	350	546		
11.2	11.23	134	114.8	1605	364	568	280	436	333	519		
12.5	12.19	123	110.6	1425	337	525	283	441	317	495		
14.0	14.10	106	115.0	1281	317	495	266	415	300	468		
16.0	16.09	93	115.0	1174	275	420	231	353	286	437	3	Right angle K (M1): 128 (M5): 128 (M4): 128 Right angle T (M1): 128 (M4): 128
18.0	18.61	81	115.0	1015	264	403	219	335	275	421		
20.0	20.27	74	115.0	932	266	407	223	341	278	425		
22.4	23.45	64	115.0	806	255	390	210	321	268	409		
25.0	24.45	61	115.0	773	241	368	209	319	249	381		
28.0	28.28	53	115.0	668	231	354	198	302	241	368		
31.5	30.58	49	115.0	618	213	326	195	298	218	334		
35.5	35.38	42	115.0	534	206	315	186	285	211	323		
40.0	38.30	39	115.0	493	206	316	186	285	212	324		
45.0	44.30	34	115.0	427	199	304	178	271	205	313		
50.0	48.09	31	115.0	393	185	283	172	263	188	288		
56.0	55.63	27	115.0	340	179	273	165	252	182	279		
63.0	62.68	24	115.0	301	168	257	161	247	170	260		
71.0	70.35	21	115.0	269	163	249	155	237	165	252		
80.0	79.27	19	115.0	238	157	240	149	228	159	243		
90.0	89.83	17	115.0	214	181	-	160	-	183	-	4	Right angle K (M1): 128 (M5): 128 (M4): 128 Right angle T (M1): 128 (M4): 128
100.0	101.22	15	115.0	190	175	-	153	-	177	-		
112.0	112.54	13	115.0	171	172	-	151	-	174	-		
125.0	126.81	12	115.0	152	166	-	144	-	168	-		
140.0	139.23	11	115.0	138	157	-	147	-	157	-		
160.0	156.87	10	115.0	122	151	-	141	-	152	-		
180.0	174.43	9	115.0	110	149	-	139	-	150	-		
200.0	196.54	8	115.0	98	143	-	133	-	144	-		
224.0	219.03	7	115.0	88	134	-	128	-	134	-		
250.0	246.79	6	115.0	78	129	-	123	-	129	-		
280.0	280.40	5	115.0	69	127	-	121	-	127	-		
315.0	312.12	5	115.0	62	119	-	116	-	119	-		
355.0	354.62	4	115.0	54	116	-	113	-	117	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W14 K/T - 1500 rpm

W14 - n1 = 1500 rpm												132 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.16	209	104.9	2301	475	741	310	484	378	589	2	(M1): 129 (M5): 129 (M4): 129
8.0	8.26	182	119.0	2264	454	707	308	481	376	587		
9.0	8.61	174	117.3	2140	450	701	294	459	375	586		
10.0	9.93	151	125.4	1983	425	663	281	438	362	565		
11.2	10.94	137	121.1	1739	394	615	300	467	355	553		
12.5	12.62	119	128.9	1605	374	583	285	445	340	529		
14.0	13.74	109	124.6	1425	344	536	288	449	323	503		
16.0	15.84	95	132.0	1309	326	509	274	427	308	480		
18.0	18.13	83	132.0	1196	268	417	164	256	283	441	3	Right angle K (M1): 129 (M5): 129 (M4): 129 Right angle T (M1): 129 (M4): 129
20.0	20.90	72	132.0	1037	257	401	157	245	273	425		
22.4	22.84	66	132.0	949	258	403	159	248	274	427		
25.0	26.34	57	132.0	823	248	387	151	235	265	413		
28.0	27.55	54	132.0	787	230	359	154	240	238	371		
31.5	31.77	47	132.0	683	222	346	146	228	231	360		
35.5	34.46	44	132.0	629	204	318	151	235	208	325		
40.0	39.74	38	132.0	546	198	308	144	225	203	316		
45.0	43.15	35	132.0	503	197	308	143	223	202	315		
50.0	49.76	30	132.0	436	191	297	137	213	196	306		
56.0	54.19	28	132.0	400	177	276	132	206	180	281		
63.0	62.48	24	132.0	347	171	267	127	198	175	273		
71.0	70.40	21	132.0	308	161	251	129	202	163	253		
80.0	79.02	19	132.0	274	156	243	125	195	158	246		
90.0	89.04	17	132.0	244	151	235	121	188	152	238		
100.0	100.91	15	132.0	219	174	-	154	-	176	-	4	Right angle K (M1): 129 (M5): 129 (M4): 129 Right angle T (M1): 129 (M4): 129
112.0	113.70	13	132.0	194	167	-	147	-	169	-		
125.0	126.42	12	132.0	174	165	-	145	-	167	-		
140.0	142.44	11	132.0	155	159	-	138	-	161	-		
160.0	156.39	10	132.0	141	150	-	141	-	151	-		
180.0	176.21	9	132.0	125	145	-	136	-	146	-		
200.0	195.93	8	132.0	113	143	-	133	-	143	-		
224.0	220.77	7	132.0	100	138	-	128	-	138	-		
250.0	246.03	6	132.0	90	128	-	123	-	129	-		
280.0	277.22	5	132.0	80	124	-	118	-	124	-		
315.0	314.97	5	132.0	70	122	-	116	-	122	-		
355.0	350.60	4	132.0	63	114	-	111	-	114	-		
400.0	398.34	4	132.0	55	112	-	109	-	112	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W15 K/T - 1500 rpm

W15 - n1 = 1500 rpm												132 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	236	121.8	3013	531	828	321	501	409	637	2	(M1): 130 (M5): 130 (M4): 130
7.1	7.41	202	142.1	3013	502	783	321	500	408	635		
8	7.64	196	139.8	2876	499	777	329	513	415	647		
9	8.91	168	150.4	2651	467	728	313	488	398	621		
10	9.7	155	145.9	2363	448	698	316	493	394	614		
11.2	11.32	133	156.3	2168	419	654	298	464	374	582		
12.5	12.18	123	150.4	1940	394	615	313	488	365	569		
14	14.22	105	158.0	1746	370	577	293	457	344	537		
16	15.48	97	125	1326	309	482	246	383	328	512	3	Right angle K (M1): 130 (M5): 130 (M4): 130 Right angle T (M1): 130 (M4): 130
18	18.07	83	145	1318	294	458	236	368	311	485		
20	19.51	77	155	1305	297	463	243	379	313	488		
22.4	22.77	66	158	1140	283	441	229	358	299	466		
25	24.41	61	158	1064	263	410	233	364	271	422		
28	28.49	53	158	911	253	394	222	346	261	407		
31.5	30.56	49	158	849	233	363	216	337	237	370		
35.5	35.67	42	158	728	225	351	207	323	229	358		
40	38.23	39	158	679	221	345	204	318	225	351		
45	44.63	34	158	582	213	332	195	304	218	340		
50	48.01	31	158	541	198	309	188	292	201	314		
56	56.04	27	158	463	192	299	180	281	195	304		
63	63.19	24	158	411	181	282	175	273	183	285		
71	70.87	21	158	366	175	273	169	264	177	276		
80	79.92	19	158	325	172	268	165	258	174	271		
90	90.49	17	158	292	193	-	176	-	195	-	4	Right angle K (M1): 130 (M5): 130 (M4): 130 Right angle T (M1): 130 (M4): 130
100	102.05	15	158	259	189	-	171	-	191	-		
112	113.38	13	158	233	184	-	167	-	186	-		
125	127.85	12	158	206	180	-	162	-	182	-		
140	140.25	11	158	188	167	-	160	-	168	-		
160	158.16	9	158	167	164	-	156	-	165	-		
180	175.72	9	158	150	159	-	152	-	160	-		
200	198.15	8	158	133	156	-	148	-	157	-		
224	220.64	7	158	120	144	-	139	-	144	-		
250	248.82	6	158	106	141	-	136	-	141	-		
280	282.7	5	158	93	139	-	134	-	139	-		
315	314.68	5	158	84	130	-	128	-	131	-		
355	357.53	4	158	74	128	-	125	-	128	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W16 K/T - 1500 rpm

W16 - n1 = 1500 rpm												178 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.11	211	136	3013	534	834	320	498	404	630	2	(M1): 131 (M5): 131 (M4): 131
8	8.27	181	159	3013	506	790	321	500	406	633		
9	8.55	175	156	2876	504	786	330	515	415	647		
10	9.95	151	168	2651	472	736	315	491	399	622		
11.2	10.86	138	163	2363	453	707	319	497	397	618		
12.5	12.64	119	174	2168	424	662	301	469	377	587		
14	13.64	110	168	1940	400	624	317	494	369	575		
16	15.87	95	178	1760	375	585	297	464	348	543		
18	17.33	87	140	1327	314	489	249	389	332	519	3	Right angle K (M1): 131 (M5): 131 (M4): 131 Right angle T (M1): 131 (M4): 131
20	20.17	74	160	1304	298	464	240	374	315	491		
22.4	21.84	69	170	1279	301	470	248	386	317	494		
25	25.41	59	178	1151	287	447	233	363	303	473		
28	27.32	55	178	1070	267	416	237	369	274	428		
31.5	31.79	47	178	920	256	399	225	351	264	412		
35.5	34.21	44	178	855	236	368	219	342	240	375		
40	39.8	38	178	735	228	355	210	327	232	363		
45	42.8	35	178	683	224	350	207	323	228	356		
50	49.8	30	178	587	216	337	198	309	221	344		
56	53.74	28	178	544	201	314	190	297	204	318		
63	62.53	24	178	468	194	303	183	285	198	308		
71	70.52	21	178	415	184	287	178	278	185	289		
80	79.09	19	178	370	178	277	171	268	179	280		
90	89.19	17	178	328	174	272	168	262	176	275		
100	100.99	15	178	295	196	-	179	-	197	-	4	Right angle K (M1): 131 (M5): 131 (M4): 131 Right angle T (M1): 131 (M4): 131
112	113.88	13	178	261	191	-	174	-	193	-		
125	126.52	12	178	235	186	-	169	-	188	-		
140	142.68	11	178	208	182	-	164	-	184	-		
160	156.52	10	178	190	170	-	162	-	170	-		
180	176.5	8	178	169	166	-	158	-	167	-		
200	196.09	8	178	152	162	-	154	-	162	-		
224	221.13	7	178	135	158	-	150	-	159	-		
250	246.23	6	178	121	146	-	141	-	146	-		
280	277.67	5	178	107	143	-	138	-	143	-		
315	315.48	5	178	94	141	-	136	-	141	-		
355	351.17	4	178	85	132	-	130	-	132	-		
400	398.99	4	178	75	130	-	127	-	130	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W01 K/T - 1200 rpm

W01 - n1 = 1200 rpm												7.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.26	239	7.2	144	77	107	75	105	76	106	2	(M1): 132 (M5): 132 (M4): 132
7.1	7.25	207	7.5	130	73	102	71	100	72	101		
8.0	7.66	196	7.4	122	75	105	73	102	74	104		
9.0	8.86	169	7.5	106	71	99	70	97	71	99		
10.0	9.71	154	7.1	91	65	90	64	89	64	90		
11.2	11.23	134	7.5	84	62	86	61	85	61	86		
12.5	12.19	123	7.2	74	58	81	58	81	58	81		
14.0	14.10	106	7.5	67	56	78	55	77	55	77		
16.0	15.66	96	7.5	60	38	53	38	53	38	53	3	Right angle K (M1): 132 (M5): 132 (M4): 132 Right angle T (M1): 132 (M4): 132
18.0	18.12	83	7.5	52	37	51	36	51	37	51		
20.0	19.93	75	7.5	47	38	52	37	52	37	52		
22.4	23.06	65	7.5	41	36	50	36	50	36	50		
25.0	24.76	61	7.5	38	36	50	36	50	36	50		
28.0	28.64	52	7.5	33	35	48	34	48	35	48		
31.5	30.89	49	7.5	31	31	44	31	43	31	44		
35.5	35.73	42	7.5	26	30	42	30	42	30	42		
40.0	38.38	39	7.5	25	30	42	30	42	30	42		
45.0	44.39	34	7.5	21	29	40	29	40	29	40		
50.0	48.19	31	7.5	20	27	37	27	37	27	37		
56.0	55.74	27	7.5	17	26	36	26	36	26	36		
63.0	63.09	24	7.5	15	25	35	25	35	25	35		
71.0	70.49	21	7.5	13	24	33	24	33	24	33		
80.0	79.79	19	7.5	12	23	32	23	32	23	32		

Notes: when the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T, 3 stages only.

W02 K/T - 1200 rpm

W02 - n1 = 1200 rpm												9.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8.0	7.85	191	9.0	144	82	114	79	110	80	112	2	(M1): 133 (M5): 133 (M4): 133
9.0	9.03	166	9.5	132	77	108	75	105	76	107		
10.0	9.60	156	9.3	122	80	111	78	108	79	110		
11.2	11.04	136	9.5	108	75	105	73	102	75	104		
12.5	12.17	123	8.8	91	68	95	67	94	68	95		
14.0	14.00	107	9.5	85	65	91	64	89	65	90		
16.0	15.28	98	9.0	74	61	86	61	85	61	85		
18.0	17.58	85	9.5	68	59	82	58	81	58	81		
20.0	19.63	76	9.5	61	42	58	41	58	42	58	3	Right angle K (M1): 133 (M5): 133 (M4): 133 Right angle T (M1): 133 (M4): 133
22.4	22.58	66	9.5	53	40	56	40	56	40	56		
25.0	24.99	60	9.5	48	41	57	41	57	41	57		
28.0	28.74	52	9.5	42	40	55	39	55	39	55		
31.5	31.04	48	9.5	38	39	55	39	54	39	55		
35.5	35.70	42	9.5	33	38	53	37	52	38	53		
40.0	38.73	39	9.5	31	34	48	34	47	34	48		
45.0	44.55	34	9.5	27	33	46	33	46	33	46		
50.0	48.10	31	9.5	25	33	46	33	46	33	46		
56.0	55.33	27	9.5	22	32	44	31	44	32	44		
63.0	60.40	25	9.5	20	29	41	29	41	29	41		
71.0	69.48	22	9.5	17	28	39	28	39	28	39		
80.0	78.65	19	9.5	15	27	38	27	38	27	38		
90.0	87.87	17	9.5	14	26	36	26	36	26	36		
100.0	99.46	15	9.5	12	25	35	25	35	25	35		

Notes: when the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T, 3 stages only.

W03 K/T - 1200 rpm

W03 - n1 = 1200 rpm												13 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.26	239	12.0	240	108	151	104	145	106	149	2	(M1): 134 (M5): 134 (M4): 134
7.1	7.25	207	13.0	225	103	143	99	138	101	141		
8.0	7.64	196	12.7	208	106	148	102	142	104	146		
9.0	8.84	170	13.0	185	100	140	96	135	99	138		
10.0	9.71	154	12.9	167	94	132	92	129	94	131		
11.2	11.23	134	13.0	145	90	125	87	122	89	124		
12.5	12.19	123	11.8	121	83	116	81	114	82	115		
14.0	14.10	106	13.0	116	79	110	78	108	78	110		
16.0	15.66	96	13.0	104	54	75	53	74	54	75	3	Right angle K (M1): 134 (M5): 134 (M4): 134 Right angle T (M1): 134 (M4): 134
18.0	18.12	83	13.0	90	52	72	51	71	52	72		
20.0	19.93	75	13.0	82	52	73	51	72	52	72		
22.4	23.06	65	13.0	71	50	70	49	69	50	70		
25.0	24.69	61	13.0	66	50	70	49	69	50	69		
28.0	28.56	53	13.0	57	48	67	47	66	48	67		
31.5	30.89	49	13.0	53	45	62	44	62	45	62		
35.5	35.73	42	13.0	46	43	60	43	60	43	60		
40.0	38.27	39	13.0	43	43	60	43	60	43	60		
45.0	44.26	34	13.0	37	41	58	41	57	41	58		
50.0	48.05	31	13.0	34	38	53	38	53	38	53		
56.0	55.58	27	13.0	29	37	51	36	51	37	51		
63.0	63.46	24	13.0	26	37	51	37	51	37	51		
71.0	70.29	21	13.0	23	34	48	34	48	34	48		
80.0	80.26	19	13.0	20	34	48	34	48	34	48		
90.0	90.44	17	13.0	18	33	-	33	-	33	-	4	Right angle K (M1): 134 (M5): 134 (M4): 134 Right angle T (M1): 134 (M4): 134
100.0	103.26	15	13.0	16	33	-	32	-	32	-		
112.0	112.65	13	13.0	15	31	-	31	-	31	-		
125.0	128.62	12	13.0	13	31	-	31	-	31	-		
140.0	140.16	11	13.0	12	29	-	29	-	29	-		
160.0	160.04	9	13.0	10	29	-	29	-	29	-		
180.0	174.59	9	13.0	9	27	-	27	-	27	-		
200.0	199.35	8	13.0	8	27	-	27	-	27	-		
224.0	219.23	7	13.0	7	24	-	24	-	24	-		
250.0	250.32	6	13.0	7	24	-	24	-	24	-		
280.0	284.06	5	13.0	6	24	-	24	-	24	-		
315.0	316.58	5	13.0	5	24	-	23	-	23	-		
355.0	359.25	4	13.0	5	23	-	23	-	23	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W04 K/T - 1200 rpm

W04 - n1 = 1200 rpm												16.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8.0	7.85	191	15.0	240	121	170	116	162	119	166	2	(M1): 135 (M5): 135 (M4): 135
9.0	9.03	166	16.5	230	115	161	110	154	113	158		
10.0	9.58	157	15.9	208	119	166	114	160	117	163		
11.2	11.02	136	16.5	188	112	157	108	151	111	155		
12.5	12.17	123	16.2	167	106	148	103	144	105	147		
14.0	14.00	107	16.5	148	100	140	98	137	99	139		
16.0	15.28	98	14.8	121	93	129	91	127	92	129		
18.0	17.58	85	16.5	118	88	123	87	121	88	122		
20.0	19.63	76	16.5	106	59	82	58	80	58	81	3	Right angle K (M1): 135 (M5): 135 (M4): 135 Right angle T (M1): 135 (M4): 135
22.4	22.58	66	16.5	92	56	78	55	77	56	78		
25.0	24.99	60	16.5	83	57	79	56	78	56	78		
28.0	28.74	52	16.5	72	54	76	53	74	54	75		
31.5	30.95	48	16.5	67	54	76	53	74	54	75		
35.5	35.60	42	16.5	58	52	73	51	71	52	72		
40.0	38.73	39	16.5	54	48	67	48	67	48	67		
45.0	44.55	34	16.5	47	46	65	46	64	46	65		
50.0	47.97	31	16.5	43	46	65	46	64	46	64		
56.0	55.18	27	16.5	38	45	62	44	62	45	62		
63.0	60.23	25	16.5	34	41	57	41	57	41	57		
71.0	69.28	22	16.5	30	39	55	39	55	39	55		
80.0	79.11	19	16.5	26	39	55	39	55	39	55		
90.0	87.62	17	16.5	24	37	51	37	51	37	51		
100.0	100.05	15	16.5	21	37	51	37	51	37	51		
112.0	112.74	13	16.5	18	35	-	35	-	36	-	4	Right angle K (M1): 135 (M5): 135 (M4): 135 Right angle T (M1): 135 (M4): 135
125.0	128.72	12	16.5	16	35	-	35	-	35	-		
140.0	140.43	11	16.5	15	33	-	34	-	34	-		
160.0	160.34	9	16.5	13	33	-	33	-	33	-		
180.0	174.73	9	16.5	12	31	-	31	-	31	-		
200.0	199.50	8	16.5	10	31	-	31	-	31	-		
224.0	217.64	7	16.5	10	30	-	30	-	30	-		
250.0	248.50	6	16.5	8	29	-	29	-	29	-		
280.0	273.29	5	16.5	8	26	-	26	-	26	-		
315.0	312.04	5	16.5	7	25	-	26	-	26	-		
355.0	354.10	4	16.5	6	25	-	26	-	26	-		
400.0	394.63	4	16.5	5	25	-	25	-	25	-		
450.0	447.84	3	16.5	5	25	-	25	-	25	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W05 K/T - 1200 rpm

W05 - n1 = 1200 rpm												22 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.26	239	22.0	441	173	241	160	223	167	233	2	(M1): 136 (M5): 136 (M4): 136
7.1	7.25	207	22.0	381	161	225	149	208	156	218		
8.0	7.64	196	22.0	362	159	223	149	208	155	217		
9.0	8.84	170	22.0	313	150	209	139	194	146	204		
10.0	9.71	154	21.5	279	137	192	132	185	135	189		
11.2	11.23	134	22.0	246	129	179	124	173	127	177		
12.5	12.19	123	19.8	205	117	164	115	160	116	162		
14.0	14.10	106	22.0	196	111	154	108	151	110	153		
16.0	16.03	94	19.2	155	90	125	87	121	90	125	3	Right angle K (M1): 136 (M5): 136 (M4): 136 Right angle T (M1): 136 (M4): 136
18.0	18.54	81	22.0	154	85	119	83	116	85	119		
20.0	20.22	74	22.0	141	87	121	85	118	87	121		
22.4	23.39	64	22.0	122	84	117	81	114	84	117		
25.0	25.10	60	22.0	115	86	120	84	118	87	121		
28.0	29.04	52	22.0	100	83	116	81	113	83	116		
31.5	30.89	49	22.0	94	68	95	67	94	68	95		
35.5	35.73	42	22.0	81	66	92	65	91	66	92		
40.0	38.35	39	22.0	75	66	92	66	91	66	92		
45.0	44.36	34	22.0	65	64	89	64	89	64	90		
50.0	48.16	31	22.0	60	59	83	59	82	59	83		
56.0	55.70	27	22.0	52	58	80	57	80	58	81		
63.0	63.46	24	22.0	46	59	83	59	82	59	83		
71.0	70.45	21	22.0	41	54	75	53	74	54	75		
80.0	80.26	19	22.0	36	52	72	52	72	52	73		
90.0	91.07	16	22.0	32	57	-	57	-	57	-	4	Right angle K (M1): 136 (M5): 136 (M4): 136 Right angle T (M1): 136 (M4): 136
100.0	103.75	14	22.0	28	55	-	55	-	55	-		
112.0	113.13	13	22.0	26	55	-	54	-	55	-		
125.0	128.88	12	22.0	23	53	-	52	-	53	-		
140.0	141.15	11	22.0	21	49	-	48	-	49	-		
160.0	160.80	9	22.0	18	47	-	47	-	47	-		
180.0	175.33	9	22.0	17	47	-	47	-	47	-		
200.0	199.75	8	22.0	15	45	-	45	-	45	-		
224.0	220.16	7	22.0	13	44	-	44	-	44	-		
250.0	250.82	6	22.0	12	42	-	42	-	42	-		
280.0	283.90	5	22.0	10	40	-	40	-	40	-		
315.0	317.21	5	22.0	9	38	-	38	-	38	-		
355.0	359.05	4	22.0	8	37	-	37	-	37	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W06 K/T - 1200 rpm

W06 - n1 = 1200 rpm												28 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8.0	7.85	191	28.0	448	195	272	179	250	187	262	2	(M1): 137 (M5): 137 (M4): 137
9.0	9.03	166	28.0	389	181	253	167	233	175	244		
10.0	9.58	157	28.0	367	181	253	169	235	176	246		
11.2	11.02	136	28.0	319	169	235	157	219	164	229		
12.5	12.17	123	27.0	279	155	216	149	208	152	213		
14.0	14.00	107	28.0	251	145	202	139	194	143	199		
16.0	15.28	98	24.9	205	132	184	129	180	131	183		
18.0	17.58	85	28.0	200	125	174	122	170	124	172		
20.0	20.09	75	24.0	155	96	134	93	130	96	134	3	Right angle K (M1): 137 (M5): 137 (M4): 137 Right angle T (M1): 137 (M4): 137
22.4	23.11	65	27.0	152	91	127	89	124	92	128		
25.0	25.35	59	28.0	143	93	129	90	126	93	130		
28.0	29.16	51	28.0	125	89	125	87	121	90	125		
31.5	31.47	48	28.0	117	93	129	90	126	93	130		
35.5	36.19	41	28.0	102	89	124	87	121	89	124		
40.0	38.73	39	28.0	95	73	101	72	101	73	101		
45.0	44.55	34	28.0	83	71	98	70	98	71	98		
50.0	48.08	31	28.0	77	71	99	70	98	71	99		
56.0	55.30	27	28.0	67	69	96	68	95	69	96		
63.0	60.37	25	28.0	61	64	89	63	88	64	89		
71.0	69.44	22	28.0	53	62	86	61	85	62	86		
80.0	79.11	19	28.0	47	59	82	59	82	59	82		
90.0	87.82	17	28.0	42	57	80	57	80	57	80		
100.0	100.05	15	28.0	37	56	77	55	77	56	78		
112.0	113.53	13	28.0	33	61	-	60	-	61	-	4	Right angle K (M1): 137 (M5): 137 (M4): 137 Right angle T (M1): 137 (M4): 137
125.0	129.34	12	28.0	29	59	-	58	-	59	-		
140.0	141.02	11	28.0	27	59	-	58	-	59	-		
160.0	160.66	9	28.0	23	57	-	56	-	57	-		
180.0	175.95	9	28.0	21	52	-	52	-	52	-		
200.0	200.45	7	28.0	19	50	-	50	-	50	-		
224.0	218.57	7	28.0	17	50	-	50	-	50	-		
250.0	249.00	6	28.0	15	48	-	48	-	48	-		
280.0	274.45	5	28.0	14	45	-	45	-	45	-		
315.0	312.66	5	28.0	12	44	-	44	-	44	-		
355.0	353.90	4	28.0	11	43	-	42	-	43	-		
400.0	395.43	4	28.0	9	40	-	40	-	40	-		
450.0	447.58	3	28.0	8	39	-	39	-	39	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W07 K/T - 1200 rpm

W07 - n1 = 1200 rpm												36 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	236	33.0	653	279	390	246	343	264	368	2	(M1): 138 (M5): 138 (M4): 138
7.1	7.35	204	35.9	613	260	363	231	322	248	346		
8.0	7.64	196	35.1	577	261	364	235	328	251	350		
9.0	8.84	170	36.0	512	243	339	219	305	234	327		
10.0	9.71	154	35.9	464	228	318	213	298	222	310		
11.2	11.23	134	36.0	403	213	297	199	278	208	290		
12.5	12.19	123	36.0	371	198	276	190	265	195	272		
14.0	14.10	106	36.0	321	186	259	178	248	183	256		
16.0	15.89	94	31.0	256	143	200	136	189	144	201	3	Right angle K (M1): 138 (M5): 138 (M4): 138 Right angle T (M1): 138 (M4): 138
18.0	18.38	82	35.0	250	136	190	129	180	137	191		
20.0	19.89	75	36.0	238	136	190	130	182	137	191		
22.4	23.01	65	36.0	206	130	181	124	173	131	182		
25.0	25.05	60	36.0	189	121	169	118	165	122	170		
28.0	28.97	52	36.0	163	117	164	114	160	118	165		
31.5	30.39	49	36.0	156	107	149	105	147	107	150		
35.5	35.16	43	36.0	135	104	145	102	143	104	145		
40.0	38.27	39	36.0	124	101	141	99	138	101	141		
45.0	44.26	34	36.0	107	98	137	96	134	98	137		
50.0	48.05	31	36.0	98	89	124	88	123	89	124		
56.0	55.58	27	36.0	85	86	120	85	119	86	121		
63.0	63.88	23	36.0	74	82	114	81	114	82	114		
71.0	70.29	21	36.0	67	80	111	79	111	80	111		
80.0	80.78	19	36.0	59	79	110	78	110	79	110		
90.0	90.87	17	36.0	53	85	-	83	-	85	-	4	Right angle K (M1): 138 (M5): 138 (M4): 138 Right angle T (M1): 138 (M4): 138
100.0	104.43	14	36.0	46	84	-	82	-	85	-		
112.0	112.56	13	36.0	43	82	-	80	-	82	-		
125.0	129.36	12	36.0	37	81	-	79	-	81	-		
140.0	140.84	11	36.0	34	74	-	73	-	74	-		
160.0	161.86	9	36.0	30	73	-	73	-	73	-		
180.0	174.45	9	36.0	28	71	-	71	-	71	-		
200.0	200.48	7	36.0	24	71	-	70	-	71	-		
224.0	219.05	7	36.0	22	64	-	64	-	64	-		
250.0	251.74	6	36.0	19	63	-	63	-	63	-		
280.0	287.44	5	36.0	17	63	-	62	-	63	-		
315.0	318.38	5	36.0	15	59	-	59	-	59	-		
355.0	363.52	4	36.0	13	58	-	58	-	58	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W08 K/T - 1200 rpm

W08 - n1 = 1200 rpm												46 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8.0	7.97	188	41.4	653	294	410	256	357	274	383	2	(M1): 139 (M5): 139 (M4): 139
9.0	9.16	164	44.7	613	273	381	240	336	258	360		
10.0	9.58	157	44.0	577	275	384	246	343	262	366		
11.2	11.02	136	46.0	524	255	357	229	320	245	342		
12.5	12.17	123	45.0	464	240	335	224	312	233	326		
14.0	14.00	107	46.0	413	224	312	209	292	218	305		
16.0	15.28	98	46.0	378	209	291	200	279	205	286		
18.0	17.58	85	46.0	329	195	273	187	261	193	269		
20.0	19.92	75	38.0	251	147	205	140	196	148	206	3	Right angle K (M1): 139 (M5): 139 (M4): 139 Right angle T (M1): 139 (M4): 139
22.4	22.91	65	43.0	247	140	196	134	187	141	197		
25.0	24.94	60	46.0	242	140	196	135	188	141	197		
28.0	28.68	52	46.0	211	135	189	129	181	136	190		
31.5	31.40	48	46.0	193	127	177	124	172	127	177		
35.5	36.11	42	46.0	167	122	171	119	166	123	171		
40.0	38.10	39	46.0	159	111	155	110	153	112	156		
45.0	43.83	34	46.0	138	108	151	106	148	108	151		
50.0	47.97	31	46.0	126	105	147	103	144	105	147		
56.0	55.18	27	46.0	110	102	142	100	140	102	142		
63.0	60.23	25	46.0	100	92	129	92	128	93	129		
71.0	69.28	22	46.0	87	90	125	89	124	90	125		
80.0	79.63	19	46.0	76	85	119	85	119	86	119		
90.0	87.62	17	46.0	69	83	116	83	115	83	116		
100.0	100.70	15	46.0	60	82	115	82	114	82	115		
112.0	113.28	13	46.0	54	89	-	87	-	89	-	4	Right angle K (M1): 139 (M5): 139 (M4): 139 Right angle T (M1): 139 (M4): 139
125.0	130.18	12	46.0	47	88	-	86	-	88	-		
140.0	140.31	11	46.0	44	85	-	83	-	85	-		
160.0	161.25	9	46.0	38	84	-	82	-	85	-		
180.0	175.56	9	46.0	35	77	-	76	-	77	-		
200.0	201.76	7	46.0	30	76	-	76	-	76	-		
224.0	217.46	7	46.0	28	74	-	73	-	74	-		
250.0	249.92	6	46.0	25	73	-	73	-	74	-		
280.0	273.06	5	46.0	23	67	-	66	-	67	-		
315.0	313.82	5	46.0	20	66	-	66	-	66	-		
355.0	358.31	4	46.0	17	65	-	65	-	65	-		
400.0	396.89	4	46.0	15	62	-	61	-	62	-		
450.0	453.16	3	46.0	14	61	-	60	-	61	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W09 K/T - 1200 rpm

W09 - n1 = 1200 rpm												58.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	236	45.2	895	308	433	259	365	282	397	2	(M1): 140 (M5): 140 (M4): 140
7.1	7.35	204	52.3	895	288	406	248	349	269	379		
8.0	7.64	196	54.8	901	287	404	251	353	271	382		
9.0	8.84	170	58.5	831	269	378	236	332	256	360		
10.0	9.71	154	55.9	724	249	350	229	322	241	339		
11.2	11.23	134	58.5	653	233	329	215	303	227	319		
12.5	12.19	123	58.5	602	219	308	207	292	215	302		
14.0	14.10	106	58.5	521	206	290	194	274	202	285		
16.0	15.79	95	50.0	416	160	223	151	211	161	225	3	Right angle K (M1): 140 (M5): 140 (M4): 140 Right angle T (M1): 140 (M4): 140
18.0	18.26	82	57.0	410	152	213	144	202	154	215		
20.0	19.69	76	58.5	391	153	213	146	203	154	215		
22.4	22.77	66	58.5	338	147	206	140	195	149	207		
25.0	24.67	61	58.5	312	145	203	139	194	146	204		
28.0	28.53	53	58.5	269	140	196	134	187	141	197		
31.5	30.52	49	58.5	252	126	176	123	172	127	177		
35.5	35.30	42	58.5	218	122	171	119	167	123	172		
40.0	38.23	39	58.5	201	119	166	116	162	119	167		
45.0	44.22	34	58.5	174	115	161	112	157	116	162		
50.0	48.01	31	58.5	160	104	146	103	144	105	146		
56.0	55.53	27	58.5	138	102	142	100	140	102	142		
63.0	63.09	24	58.5	122	96	134	95	133	96	134		
71.0	70.23	21	58.5	109	93	130	92	129	93	130		
80.0	79.79	19	58.5	96	92	129	91	128	93	129		
90.0	90.78	17	58.5	86	100	-	98	-	100	-	4	Right angle K (M1): 140 (M5): 140 (M4): 140 Right angle T (M1): 140 (M4): 140
100.0	103.15	15	58.5	76	99	-	97	-	99	-		
112.0	112.70	13	58.5	69	97	-	95	-	98	-		
125.0	128.05	12	58.5	61	96	-	94	-	97	-		
140.0	140.70	11	58.5	56	87	-	86	-	87	-		
160.0	159.86	9	58.5	49	86	-	85	-	86	-		
180.0	174.67	9	58.5	45	84	-	84	-	85	-		
200.0	198.46	8	58.5	39	84	-	83	-	84	-		
224.0	219.33	7	58.5	36	77	-	77	-	78	-		
250.0	249.20	6	58.5	31	77	-	76	-	77	-		
280.0	283.90	5	58.5	28	75	-	74	-	75	-		
315.0	315.17	5	58.5	25	72	-	71	-	72	-		
355.0	359.05	4	58.5	22	70	-	69	-	70	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W10 K/T - 1200 rpm

W10 - n1 = 1200 rpm												67 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.16	209	51.1	897	318	444	266	371	289	404	2	(M1): 141 (M5): 141 (M4): 141
8.0	8.26	182	59.0	897	298	416	255	356	277	386		
9.0	8.61	174	61.7	901	297	415	258	361	280	390		
10.0	9.93	151	67.0	848	278	388	244	340	264	368		
11.2	10.94	137	63.0	724	257	359	236	330	248	347		
12.5	12.62	119	67.0	667	242	337	222	310	234	327		
14.0	13.74	109	66.3	606	227	316	214	299	222	310		
16.0	15.84	95	67.0	531	213	297	201	281	209	292		
18.0	17.79	84	56.0	414	150	210	141	197	152	212	3	Right angle K (M1): 141 (M5): 141 (M4): 141 Right angle T (M1): 141 (M4): 141
20.0	20.51	73	64.0	410	143	200	135	188	145	202		
22.4	22.18	68	67.0	397	160	224	153	214	161	225		
25.0	25.58	59	67.0	344	154	216	147	205	156	217		
28.0	27.79	54	67.0	317	149	208	143	199	150	209		
31.5	32.05	47	67.0	275	144	201	137	192	145	202		
35.5	34.38	44	67.0	256	129	181	127	177	130	181		
40.0	39.65	38	67.0	222	125	175	123	171	126	176		
45.0	43.08	35	67.0	204	122	170	119	166	122	171		
50.0	49.67	30	67.0	177	118	165	115	161	119	166		
56.0	54.09	28	67.0	163	107	149	106	147	107	150		
63.0	62.37	24	67.0	141	104	145	102	143	104	146		
71.0	70.87	21	67.0	124	98	137	97	136	98	137		
80.0	78.88	19	67.0	112	96	133	95	132	96	134		
90.0	89.63	17	67.0	98	95	132	94	131	95	132		
100.0	101.98	15	67.0	88	103	-	101	-	103	-	4	Right angle K (M1): 141 (M5): 141 (M4): 141 Right angle T (M1): 141 (M4): 141
112.0	115.86	13	67.0	77	102	-	100	-	102	-		
125.0	126.60	12	67.0	71	100	-	98	-	100	-		
140.0	143.84	10	67.0	62	99	-	97	-	99	-		
160.0	158.05	9	67.0	57	89	-	88	-	89	-		
180.0	179.57	8	67.0	50	88	-	87	-	88	-		
200.0	196.21	8	67.0	46	87	-	86	-	87	-		
224.0	222.93	7	67.0	40	86	-	85	-	86	-		
250.0	246.38	6	67.0	36	79	-	79	-	79	-		
280.0	279.93	5	67.0	32	79	-	78	-	79	-		
315.0	318.90	5	67.0	28	77	-	76	-	77	-		
355.0	354.02	4	67.0	25	74	-	73	-	74	-		
400.0	403.32	4	67.0	22	71	-	71	-	71	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W11 K/T - 1200 rpm

W11 - n1 = 1200 rpm												80 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	236	59.9	1185	369	515	299	417	331	462	2	(M1): 142 (M5): 142 (M4): 142
7.1	7.35	204	69.3	1185	348	486	289	404	320	447		
8.0	7.64	196	74.1	1219	353	493	288	401	326	455		
9.0	8.84	170	79.5	1130	331	462	271	379	309	431		
10.0	9.71	154	75.9	983	306	426	269	375	292	407		
11.2	11.23	134	80.0	895	288	401	253	354	276	385		
12.5	12.19	123	77.6	800	262	365	244	341	256	356		
14.0	14.10	106	80.0	713	247	345	230	322	242	337		
16.0	15.89	94	73.0	604	209	291	191	266	212	296	3	Right angle K (M1): 142 (M5): 142 (M4): 142 Right angle T (M1): 142 (M4): 142
18.0	18.38	82	80.0	572	199	278	183	255	202	282		
20.0	20.22	74	80.0	520	199	278	184	257	202	282		
22.4	23.39	64	80.0	450	192	268	176	246	196	273		
25.0	24.75	61	80.0	425	188	263	176	245	191	267		
28.0	28.63	52	80.0	367	182	254	169	235	185	258		
31.5	30.89	49	80.0	340	167	233	160	223	168	235		
35.5	35.73	42	80.0	294	162	226	154	215	163	228		
40.0	37.82	40	80.0	278	158	220	150	210	159	222		
45.0	43.74	34	80.0	240	153	213	145	202	155	216		
50.0	47.48	32	80.0	221	140	196	136	190	141	197		
56.0	54.92	27	80.0	191	136	190	132	184	137	192		
63.0	63.05	24	80.0	167	127	177	125	175	127	178		
71.0	69.46	22	80.0	151	124	173	121	170	124	173		
80.0	79.73	19	80.0	132	119	167	117	164	120	167		
90.0	88.35	17	80.0	121	131	-	126	-	131	-	4	Right angle K (M1): 142 (M5): 142 (M4): 142 Right angle T (M1): 142 (M4): 142
100.0	101.41	15	80.0	105	126	-	121	-	127	-		
112.0	111.23	13	80.0	96	125	-	120	-	125	-		
125.0	127.68	12	80.0	84	120	-	115	-	121	-		
140.0	136.93	11	80.0	78	116	-	113	-	116	-		
160.0	157.17	10	80.0	68	112	-	109	-	112	-		
180.0	172.39	9	80.0	62	110	-	108	-	111	-		
200.0	197.88	8	80.0	54	106	-	103	-	107	-		
224.0	216.47	7	80.0	49	99	-	98	-	100	-		
250.0	248.47	6	80.0	43	96	-	94	-	96	-		
280.0	285.56	5	80.0	37	95	-	93	-	95	-		
315.0	314.25	5	80.0	34	89	-	88	-	90	-		
355.0	361.15	4	80.0	30	88	-	87	-	88	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W12 K/T - 1200 rpm

W12 - n1 = 1200 rpm												92 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.16	209	67.5	1185	380	530	304	424	337	471	2	(M1): 143 (M5): 143 (M4): 143
8.0	8.26	182	77.9	1185	358	500	296	412	327	456		
9.0	8.61	174	83.6	1220	364	508	295	411	334	466		
10.0	9.93	151	89.3	1130	341	476	278	389	316	442		
11.2	10.94	137	85.6	983	315	440	276	386	300	418		
12.5	12.62	119	91.1	907	297	414	261	364	284	396		
14.0	13.74	109	87.5	800	270	377	251	351	263	367		
16.0	15.84	95	92.0	730	255	356	238	332	249	348		
18.0	17.90	84	82.0	602	212	296	194	270	216	301	3	Right angle K (M1): 143 (M5): 143 (M4): 143 Right angle T (M1): 143 (M4): 143
20.0	20.64	73	92.0	586	202	282	186	259	205	287		
22.4	22.78	66	92.0	531	202	282	187	261	205	286		
25.0	26.27	57	92.0	460	195	272	179	250	198	277		
28.0	27.89	54	92.0	434	191	267	179	249	194	270		
31.5	32.16	47	92.0	376	184	258	171	239	187	262		
35.5	34.81	43	92.0	347	169	236	162	226	170	238		
40.0	40.14	37	92.0	301	164	229	156	218	165	231		
45.0	42.61	35	92.0	284	160	223	153	213	161	225		
50.0	49.13	31	92.0	246	155	216	147	205	157	219		
56.0	53.50	28	92.0	226	142	199	138	193	143	200		
63.0	61.70	24	92.0	196	138	193	133	186	139	194		
71.0	70.82	21	92.0	171	129	180	127	177	129	181		
80.0	78.03	19	92.0	155	125	175	123	172	126	176		
90.0	89.56	17	92.0	135	121	169	119	166	121	170		
100.0	99.24	15	92.0	124	133	-	128	-	133	-	4	Right angle K (M1): 143 (M5): 143 (M4): 143 Right angle T (M1): 143 (M4): 143
112.0	113.91	13	92.0	108	128	-	123	-	128	-		
125.0	124.94	12	92.0	98	127	-	122	-	127	-		
140.0	143.42	10	92.0	86	122	-	117	-	122	-		
160.0	153.81	10	92.0	80	117	-	115	-	117	-		
180.0	176.55	8	92.0	70	113	-	110	-	113	-		
200.0	193.64	8	92.0	64	112	-	109	-	112	-		
224.0	222.28	7	92.0	55	108	-	105	-	108	-		
250.0	243.16	6	92.0	51	101	-	99	-	101	-		
280.0	279.11	5	92.0	44	97	-	96	-	97	-		
315.0	320.76	5	92.0	38	96	-	94	-	96	-		
355.0	352.99	4	92.0	35	91	-	90	-	91	-		
400.0	405.67	4	92.0	30	89	-	88	-	89	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W13 K/T - 1200 rpm

W13 - n1 = 1200 rpm												115 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	236	94.0	1860	480	670	361	504	417	582	2	(M1): 144 (M5): 144 (M4): 144
7.1	7.35	204	108.8	1860	452	631	352	491	404	564		
8.0	7.64	196	111.3	1831	455	635	345	482	409	571		
9.0	8.84	170	115.0	1635	426	594	323	451	386	538		
10.0	9.71	154	114.9	1487	396	553	333	465	372	520		
11.2	11.23	134	115.0	1287	371	518	310	433	350	488		
12.5	12.19	123	115.0	1185	343	479	307	428	331	462		
14.0	14.10	106	115.0	1025	323	450	287	401	311	434		
16.0	16.09	93	115.0	939	274	376	244	335	281	386	3	Right angle K (M1): 144 (M5): 144 (M4): 144 Right angle T (M1): 144 (M4): 144
18.0	18.61	81	115.0	812	263	361	233	320	270	371		
20.0	20.27	74	115.0	746	265	365	236	324	273	375		
22.4	23.45	64	115.0	645	255	350	224	308	263	361		
25.0	24.45	61	115.0	618	239	329	218	299	245	336		
28.0	28.28	53	115.0	534	231	317	208	286	236	325		
31.5	30.58	49	115.0	494	211	290	199	274	214	294		
35.5	35.38	42	115.0	427	204	281	191	263	208	285		
40.0	38.30	39	115.0	395	205	282	192	264	208	286		
45.0	44.30	34	115.0	341	198	272	184	253	201	277		
50.0	48.09	31	115.0	314	183	252	175	240	186	255		
56.0	55.63	27	115.0	272	177	244	168	231	180	247		
63.0	62.68	24	115.0	241	167	229	162	223	168	231		
71.0	70.35	21	115.0	215	162	222	157	215	163	224		
80.0	79.27	19	115.0	191	156	214	151	208	157	216		
90.0	89.83	17	115.0	171	178	-	165	-	180	-	4	Right angle K (M1): 144 (M5): 144 (M4): 144 Right angle T (M1): 144 (M4): 144
100.0	101.22	15	115.0	152	172	-	158	-	173	-		
112.0	112.54	13	115.0	137	170	-	156	-	171	-		
125.0	126.81	12	115.0	121	164	-	149	-	165	-		
140.0	139.23	11	115.0	110	154	-	148	-	155	-		
160.0	156.87	10	115.0	98	149	-	143	-	149	-		
180.0	174.43	9	115.0	88	147	-	140	-	147	-		
200.0	196.54	8	115.0	78	142	-	135	-	142	-		
224.0	219.03	7	115.0	70	132	-	128	-	132	-		
250.0	246.79	6	115.0	62	127	-	124	-	128	-		
280.0	280.40	5	115.0	55	126	-	122	-	126	-		
315.0	312.12	5	115.0	49	118	-	116	-	118	-		
355.0	354.62	4	115.0	43	115	-	113	-	116	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W14 K/T - 1200 rpm

W14 - n1 = 1200 rpm												132 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.16	209	106.0	1860	488	682	363	507	418	584	2	(M1): 145 (M5): 145 (M4): 145
8.0	8.26	182	122.2	1860	464	648	357	498	410	573		
9.0	8.61	174	125.5	1831	464	648	350	488	414	577		
10.0	9.93	151	132.0	1670	438	611	331	462	394	550		
11.2	10.94	137	129.5	1486	404	564	339	473	378	528		
12.5	12.62	119	132.0	1315	382	533	319	445	359	501		
14.0	13.74	109	132.0	1207	351	490	314	438	338	471		
16.0	15.84	95	132.0	1047	332	463	295	412	320	446		
18.0	18.13	83	132.0	957	268	374	232	323	277	387	3	Right angle K (M1): 145 (M5): 145 (M4): 145 Right angle T (M1): 145 (M4): 145
20.0	20.90	72	132.0	830	258	360	221	309	268	373		
22.4	22.84	66	132.0	760	259	361	223	311	269	375		
25.0	26.34	57	132.0	659	249	348	211	295	260	363		
28.0	27.55	54	132.0	630	228	319	208	291	234	326		
31.5	31.77	47	132.0	546	221	309	200	279	227	316		
35.5	34.46	44	132.0	503	202	282	190	266	205	286		
40.0	39.74	38	132.0	437	196	274	184	256	199	278		
45.0	43.15	35	132.0	402	196	273	183	256	199	278		
50.0	49.76	30	132.0	349	190	265	176	246	193	269		
56.0	54.19	28	132.0	320	175	245	167	233	177	247		
63.0	62.48	24	132.0	278	170	237	162	225	172	241		
71.0	70.40	21	132.0	246	159	222	155	217	160	224		
80.0	79.02	19	132.0	220	155	216	150	210	156	218		
90.0	89.04	17	132.0	195	150	209	145	202	151	210		
100.0	100.91	15	132.0	175	171	-	158	-	172	-	4	Right angle K (M1): 145 (M5): 145 (M4): 145 Right angle T (M1): 145 (M4): 145
112.0	113.70	13	132.0	155	165	-	152	-	166	-		
125.0	126.42	12	132.0	140	163	-	150	-	164	-		
140.0	142.44	11	132.0	124	157	-	143	-	158	-		
160.0	156.39	10	132.0	113	148	-	142	-	148	-		
180.0	176.21	9	132.0	100	143	-	137	-	143	-		
200.0	195.93	8	132.0	90	141	-	135	-	141	-		
224.0	220.77	7	132.0	80	136	-	130	-	136	-		
250.0	246.03	6	132.0	72	126	-	123	-	127	-		
280.0	277.22	5	132.0	64	122	-	119	-	122	-		
315.0	314.97	5	132.0	56	120	-	117	-	121	-		
355.0	350.60	4	132.0	50	113	-	111	-	113	-		
400.0	398.34	4	132.0	44	111	-	109	-	111	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W15 K/T - 1200 rpm

W15 - n1 = 1200 rpm												132 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	236	123.8	2450	547	764	384	536	458	640	2	(M1): 146 (M5): 146 (M4): 146
7.1	7.41	202	144.5	2450	514	717	376	525	447	624		
8	7.64	196	146.2	2406	512	714	387	540	454	634		
9	8.91	168	158	2228	478	667	366	510	431	602		
10	9.7	155	156	2021	460	641	366	511	424	592		
11.2	11.32	133	158	1753	429	598	339	473	397	554		
12.5	12.18	123	158	1629	403	562	347	484	384	535		
14	14.22	105	158	1397	377	525	322	449	359	501		
16	15.48	97	125	1061	162	226	266	371	322	450	3	Right angle K (M1): 146 (M5): 146 (M4): 146 Right angle T (M1): 146 (M4): 146
18	18.07	83	145	1055	309	431	254	355	305	425		
20	19.51	77	155	1044	293	409	260	362	307	428		
22.4	22.77	66	158	912	295	412	246	343	293	409		
25	24.41	61	158	851	282	393	241	336	265	370		
28	28.49	53	158	729	259	362	230	321	256	357		
31.5	30.56	49	158	680	249	348	219	306	232	324		
35.5	35.67	42	158	582	229	319	211	294	225	314		
40	38.23	39	158	543	221	308	207	289	221	308		
45	44.63	34	158	465	217	303	199	278	214	298		
50	48.01	31	158	433	210	293	189	263	197	275		
56	56.04	27	158	371	195	272	182	254	191	267		
63	63.19	24	158	329	189	263	175	244	179	250		
71	70.87	21	158	293	178	248	169	236	174	243		
80	79.92	19	158	260	172	241	166	231	171	239		
90	90.49	17	158	233	189	-	179	-	190	-	4	Right angle K (M1): 146 (M5): 146 (M4): 146 Right angle T (M1): 146 (M4): 146
100	102.05	15	158	207	185	-	174	-	186	-		
112	113.38	13	158	186	180	-	170	-	182	-		
125	127.85	12	158	165	177	-	165	-	178	-		
140	140.25	11	158	151	164	-	159	-	164	-		
160	158.16	9	158	134	161	-	156	-	161	-		
180	175.72	9	158	120	156	-	152	-	157	-		
200	198.15	8	158	107	153	-	148	-	154	-		
224	220.64	7	158	96	141	-	138	-	141	-		
250	248.82	6	158	85	138	-	135	-	138	-		
280	282.7	5	158	75	137	-	134	-	137	-		
315	314.68	5	158	67	128	-	127	-	128	-		
355	357.53	4	158	59	126	-	124	-	126	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W16 K/T - 1200 rpm

W16 - n1 = 1200 rpm												178 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.11	211	139	2450	553	771	384	536	456	637	2	(M1): 147 (M5): 147 (M4): 147
8	8.27	181	161	2450	519	724	378	527	447	624		
9	8.55	175	164	2406	518	723	389	543	456	637		
10	9.95	151	178	2249	484	675	370	516	435	606		
11.2	10.86	138	175	2021	466	650	370	516	428	598		
12.5	12.64	119	178	1770	434	606	344	480	401	560		
14	13.64	110	178	1641	409	571	351	491	388	542		
16	15.87	95	178	1410	382	533	326	455	364	508		
18	17.33	87	140	1062	315	439	270	377	326	456	3	Right angle K (M1): 147 (M5): 147 (M4): 147 Right angle T (M1): 147 (M4): 147
20	20.17	74	160	1043	298	416	258	360	309	431		
22.4	21.84	69	170	1023	300	419	264	368	310	433		
25	25.41	59	178	921	287	400	250	348	297	414		
28	27.32	55	178	856	264	368	244	341	269	375		
31.5	31.79	47	178	736	254	354	233	326	259	361		
35.5	34.21	44	178	684	233	325	222	310	235	329		
40	39.8	38	178	588	225	314	213	298	228	318		
45	42.8	35	178	547	221	309	210	294	224	312		
50	49.8	30	178	470	214	298	202	282	216	302		
56	53.74	28	178	435	198	277	192	267	200	279		
63	62.53	24	178	374	192	268	185	258	194	271		
71	70.52	21	178	332	181	253	177	248	182	254		
80	79.09	19	178	296	175	245	171	239	176	246		
90	89.19	17	178	262	172	240	168	235	173	242		
100	100.99	15	178	236	192	-	181	-	193	-	4	Right angle K (M1): 147 (M5): 147 (M4): 147 Right angle T (M1): 147 (M4): 147
112	113.88	13	178	209	188	-	176	-	189	-		
125	126.52	12	178	188	183	-	172	-	184	-		
140	142.68	11	178	167	179	-	167	-	180	-		
160	156.52	10	178	152	166	-	162	-	167	-		
180	176.5	8	178	135	163	-	158	-	163	-		
200	196.09	8	178	121	158	-	154	-	159	-		
224	221.13	7	178	108	155	-	150	-	156	-		
250	246.23	6	178	97	143	-	140	-	143	-		
280	277.67	5	178	86	140	-	137	-	140	-		
315	315.48	5	178	75	138	-	135	-	139	-		
355	351.17	4	178	68	130	-	128	-	130	-		
400	398.99	4	178	60	128	-	126	-	128	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W01 K/T - 1000 rpm

W01 - n1 = 1000 rpm												7.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.26	160	7.2	121	76	98	75	97	76	98	2	(M1): 148 (M5): 148 (M4): 148
7.1	7.25	138	7.5	108	73	94	71	92	72	93		
8	7.66	131	7.5	102	74	96	73	95	74	96		
9	8.86	113	7.5	89	71	91	70	90	70	91		
10	9.71	103	7.1	77	64	83	64	82	64	83		
11.2	11.23	89	7.5	70	61	79	61	78	61	79		
12.5	12.19	82	7.2	62	58	75	58	74	58	75		
14	14.1	71	7.5	56	55	71	55	71	55	71		
16	15.66	64	7.5	50	38	48	37	48	37	48	3	Right angle K (M1): 148 (M5): 148 (M4): 148 Right angle T (M1): 148 (M4): 148
18	18.12	55	7.5	43	36	47	36	46	36	46		
20	19.93	50	7.5	39	37	48	37	47	37	47		
22.4	23.06	43	7.5	34	36	46	35	45	35	46		
25	24.76	40	7.5	32	35	46	35	45	35	45		
28	28.64	35	7.5	27	34	44	34	43	34	44		
31.5	30.89	32	7.5	25	31	40	31	39	31	39		
35.5	35.73	28	7.5	22	30	38	30	38	30	38		
40	38.38	26	7.5	20	30	38	29	38	29	38		
45	44.39	23	7.5	18	29	37	28	37	28	37		
50	48.19	21	7.5	16	26	34	26	34	26	34		
56	55.74	18	7.5	14	25	33	25	33	25	33		
63	63.09	16	7.5	12	25	32	25	32	25	32		
71	70.49	14	7.5	11	24	30	24	30	24	30		
80	79.79	13	7.5	10	23	29	23	29	23	29		

Notes: when the fan is installed on the input flange, PT is reduced by 20%.
Right angle T, 3 stages only.

W02 K/T - 1000 rpm

W02 - n1 = 1000 rpm												9.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8	7.85	127	9.1	121	81	104	79	102	80	103	2	(M1): 149 (M5): 149 (M4): 149
9	9.03	111	9.5	110	77	99	75	97	76	98		
10	9.6	104	9.4	102	79	102	78	100	78	101		
11.2	11.04	91	9.5	90	75	97	74	95	74	96		
12.5	12.17	82	8.9	77	68	87	67	87	68	87		
14	14	71	9.5	71	65	83	64	82	64	83		
16	15.28	65	9.1	62	61	79	61	78	61	79		
18	17.58	57	9.5	57	58	75	58	74	58	75		
20	19.63	51	9.5	51	41	53	41	52	41	53	3	Right angle K (M1): 149 (M5): 149 (M4): 149 Right angle T (M1): 149 (M4): 149
22.4	22.58	44	9.5	44	39	51	39	51	39	51		
25	24.99	40	9.5	40	40	52	40	52	40	52		
28	28.74	35	9.5	35	39	50	38	50	39	50		
31.5	31.04	32	9.5	32	39	50	38	49	39	50		
35.5	35.7	28	9.5	28	37	48	37	48	37	48		
40	38.73	26	9.5	26	33	43	33	43	33	43		
45	44.55	22	9.5	22	32	42	32	42	32	42		
50	48.1	21	9.5	21	32	42	32	41	32	41		
56	55.33	18	9.5	18	31	40	31	40	31	40		
63	60.4	17	9.5	16	29	37	29	37	29	37		
71	69.48	14	9.5	14	28	36	28	36	28	36		
80	78.65	13	9.5	13	27	35	27	35	27	35		
90	87.87	11	9.5	11	26	33	26	33	26	33		
100	99.46	10	9.5	10	25	32	25	32	25	32		

Notes: when the fan is installed on the input flange, PT is reduced by 20%.
Right angle T, 3 stages only.

W03 K/T - 1000 rpm

W03 - n1 = 1000 rpm												13 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.26	160	12.1	202	107	139	105	135	106	137	2	(M1): 150 (M5): 150 (M4): 150
7.1	7.25	138	13	188	102	131	99	128	101	130		
8	7.64	131	12.8	175	105	136	102	132	104	134		
9	8.84	113	13	154	99	128	97	125	99	127		
10	9.71	103	13	140	94	121	92	119	93	121		
11.2	11.23	89	13	121	89	115	88	113	89	114		
12.5	12.19	82	11.9	102	82	106	81	105	82	106		
14	14.1	71	13	97	78	101	78	100	78	101		
16	15.66	64	13	87	53	68	52	67	53	68	3	Right angle K (M1): 150 (M5): 150 (M4): 150 Right angle T (M1): 150 (M4): 150
18	18.12	55	13	75	51	66	50	65	51	65		
20	19.93	50	13	68	51	66	51	65	51	66		
22.4	23.06	43	13	59	49	63	49	63	49	63		
25	24.69	41	13	55	49	63	48	62	49	63		
28	28.56	35	13	48	47	61	47	60	47	61		
31.5	30.89	32	13	44	44	57	44	56	44	56		
35.5	35.73	28	13	38	42	55	42	54	42	54		
40	38.27	26	13	36	42	54	42	54	42	54		
45	44.26	23	13	31	41	52	40	52	41	52		
50	48.05	21	13	28	37	48	37	48	37	48		
56	55.58	18	13	24	36	46	36	46	36	46		
63	63.46	16	13	21	36	47	36	46	36	47		
71	70.29	14	13	19	34	44	34	43	34	43		
80	80.26	12	13	17	34	43	34	43	34	43		
90	90.44	11	13	15	32	-	32	-	32	-	4	Right angle K (M1): 150 (M5): 150 (M4): 150 Right angle T (M1): 150 (M4): 150
100	103.26	10	13	13	32	-	32	-	32	-		
112	112.65	9	13	12	30	-	30	-	30	-		
125	128.62	8	13	11	30	-	30	-	30	-		
140	140.16	7	13	10	28	-	28	-	28	-		
160	160.04	6	13	9	28	-	28	-	28	-		
180	174.59	6	13	8	27	-	27	-	27	-		
200	199.35	5	13	7	27	-	27	-	27	-		
224	219.23	5	13	6	23	-	23	-	23	-		
250	250.32	4	13	5	23	-	23	-	23	-		
280	284.06	4	13	5	23	-	23	-	23	-		
315	316.58	3	13	4	23	-	23	-	23	-		
355	359.25	3	13	4	23	-	23	-	23	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W04 K/T - 1000 rpm

W04 - n1 = 1000 rpm												16.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8	7.85	127	15.1	202	121	156	117	151	119	154	2	(M1): 151 (M5): 151 (M4): 151
9	9.03	111	16.5	191	114	147	111	143	113	146		
10	9.58	104	16	175	118	152	115	148	117	151		
11.2	11.02	91	16.5	157	111	144	108	140	110	142		
12.5	12.17	82	16.3	140	105	136	104	134	105	135		
14	14	71	16.5	123	100	129	98	126	99	128		
16	15.28	65	14.9	102	92	119	91	118	92	118		
18	17.58	57	16.5	98	87	113	87	112	87	112		
20	19.63	51	16.5	88	57	74	57	73	57	74	3	Right angle K (M1): 151 (M5): 151 (M4): 151 Right angle T (M1): 151 (M4): 151
22.4	22.58	44	16.5	77	55	71	54	70	55	71		
25	24.99	40	16.5	69	55	71	55	71	55	71		
28	28.74	35	16.5	60	53	69	53	68	53	68		
31.5	30.95	32	16.5	56	53	68	53	68	53	68		
35.5	35.6	28	16.5	49	51	66	50	65	51	65		
40	38.73	26	16.5	45	47	61	47	61	47	61		
45	44.55	22	16.5	39	46	59	45	58	46	59		
50	47.97	21	16.5	36	45	59	45	58	45	58		
56	55.18	18	16.5	31	44	56	44	56	44	56		
63	60.23	17	16.5	29	40	51	40	51	40	51		
71	69.28	14	16.5	25	39	50	39	50	39	50		
80	79.11	13	16.5	22	39	50	39	50	39	50		
90	87.62	11	16.5	20	36	47	36	47	36	47		
100	100.05	10	16.5	17	36	47	36	46	36	46		
112	112.74	9	16.5	15	34	-	35	-	35	-	4	Right angle K (M1): 151 (M5): 151 (M4): 151 Right angle T (M1): 151 (M4): 151
125	128.72	8	16.5	13	34	-	35	-	35	-		
140	140.43	7	16.5	12	33	-	33	-	33	-		
160	160.34	6	16.5	11	33	-	33	-	33	-		
180	174.73	6	16.5	10	31	-	31	-	31	-		
200	199.5	5	16.5	9	30	-	31	-	31	-		
224	217.64	5	16.5	8	29	-	29	-	29	-		
250	248.5	4	16.5	7	29	-	29	-	29	-		
280	273.29	4	16.5	6	25	-	25	-	25	-		
315	312.04	3	16.5	6	25	-	25	-	25	-		
355	354.1	3	16.5	5	25	-	25	-	25	-		
400	394.63	3	16.5	4	25	-	25	-	25	-		
450	447.84	2	16.5	4	25	-	25	-	25	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W05 K/T - 1000 rpm

W05 - n1 = 1000 rpm												22 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.26	160	22	368	172	222	163	210	168	217	2	(M1): 152 (M5): 152 (M4): 152
7.1	7.25	138	22	318	160	207	152	196	157	202		
8	7.64	131	22	301	159	205	151	196	156	202		
9	8.84	113	22	261	149	192	142	183	147	189		
10	9.71	103	21.7	234	137	177	134	172	136	175		
11.2	11.23	89	22	205	128	166	125	161	127	164		
12.5	12.19	82	19.9	172	118	152	116	149	117	151		
14	14.1	71	22	163	111	143	109	141	110	142		
16	16.23	62	19.2	130	88	113	86	111	88	113	3	Right angle K (M1): 152 (M5): 152 (M4): 152 Right angle T (M1): 152 (M4): 152
18	18.77	53	22	128	83	108	82	106	84	108		
20	20.48	49	22	118	85	109	83	108	85	110		
22.4	23.69	42	22	102	82	106	81	104	82	106		
25	25.1	40	22	96	85	109	83	107	85	109		
28	29.04	34	22	83	82	105	80	103	82	105		
31.5	30.89	32	22	78	67	86	66	85	67	86		
35.5	35.73	28	22	67	65	83	64	83	65	83		
40	38.35	26	22	63	65	84	64	83	65	84		
45	44.36	23	22	54	63	81	63	81	63	81		
50	48.16	21	22	50	58	75	58	75	58	75		
56	55.7	18	22	43	57	73	56	73	57	73		
63	63.46	16	22	38	58	75	58	75	58	75		
71	70.45	14	22	34	53	68	53	68	53	68		
80	80.26	12	22	30	51	66	51	66	51	66		
90	91.07	11	22	27	56	-	56	-	56	-	4	Right angle K (M1): 152 (M5): 152 (M4): 152 Right angle T (M1): 152 (M4): 152
100	103.75	10	22	24	54	-	54	-	54	-		
112	113.13	9	22	22	54	-	53	-	54	-		
125	128.88	8	22	19	52	-	52	-	52	-		
140	141.15	7	22	17	48	-	48	-	48	-		
160	160.8	6.2	22	15	46	-	46	-	46	-		
180	175.33	5.7	22	14	46	-	46	-	46	-		
200	199.75	5	22	12	44	-	44	-	44	-		
224	220.16	4.5	22	11	43	-	43	-	43	-		
250	250.82	4	22	10	42	-	42	-	42	-		
280	283.9	3.5	22	9	39	-	39	-	39	-		
315	317.21	3.2	22	8	37	-	37	-	37	-		
355	359.05	2.8	22	7	36	-	36	-	36	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W06 K/T - 1000 rpm

W06 - n1 = 1000 rpm												28 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8	7.85	127	28	373	195	251	184	237	189	244	2	(M1): 153 (M5): 153 (M4): 153
9	9.03	111	28	325	181	233	171	220	176	227		
10	9.58	104	28	306	181	233	172	222	177	229		
11.2	11.02	91	28	266	168	217	160	206	165	213		
12.5	12.17	82	27.2	234	155	200	151	194	153	197		
14	14	71	28	209	145	187	141	182	143	185		
16	15.28	65	25	172	133	171	130	168	132	170		
18	17.58	57	28	167	125	161	123	158	124	160		
20	20.34	49	24	129	94	121	92	119	94	122	3	Right angle K (M1): 153 (M5): 153 (M4): 153 Right angle T (M1): 153 (M4): 153
22.4	23.4	43	27	126	89	115	88	113	90	116		
25	25.67	39	28	119	91	117	89	115	91	117		
28	29.53	34	28	104	88	113	86	111	88	113		
31.5	31.47	32	28	97	91	117	89	115	91	117		
35.5	36.19	28	28	85	87	112	86	110	87	113		
40	38.73	26	28	79	71	92	71	91	71	92		
45	44.55	22	28	69	69	89	69	89	69	89		
50	48.08	21	28	64	69	89	69	89	69	90		
56	55.3	18	28	55	67	87	67	86	67	87		
63	60.37	17	28	51	62	80	62	80	62	80		
71	69.44	14	28	44	61	78	60	78	61	78		
80	79.11	13	28	39	58	75	58	75	58	75		
90	87.82	11	28	35	56	73	56	72	56	73		
100	100.05	10	28	31	55	70	54	70	55	70		
112	113.53	9	28	27	60	-	59	-	60	-	4	Right angle K (M1): 153 (M5): 153 (M4): 153 Right angle T (M1): 153 (M4): 153
125	129.34	8	28	24	58	-	57	-	58	-		
140	141.02	7	28	22	58	-	57	-	58	-		
160	160.66	6	28	19	56	-	55	-	56	-		
180	175.95	6	28	18	51	-	51	-	51	-		
200	200.45	5	28	16	49	-	49	-	49	-		
224	218.57	4.6	28	14	49	-	49	-	49	-		
250	249	4	28	13	48	-	47	-	48	-		
280	274.45	3.6	28	11	44	-	44	-	44	-		
315	312.66	3.2	28	10	43	-	43	-	43	-		
355	353.9	2.8	28	9	42	-	42	-	42	-		
400	395.43	2.5	28	8	40	-	40	-	40	-		
450	447.58	2.2	28	7	39	-	39	-	39	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W07 K/T - 1000 rpm

W07 - n1 = 1000 rpm												36 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	157	33.5	552	279	360	255	329	268	346	2	(M1): 154 (M5): 154 (M4): 154
7.1	7.35	136	36	513	259	334	238	307	251	323		
8	7.64	131	36	493	261	336	242	312	253	327		
9	8.84	113	36	426	243	313	225	290	236	305		
10	9.71	103	36	388	227	293	217	280	224	288		
11.2	11.23	89	36	336	213	274	203	262	209	270		
12.5	12.19	82	36	309	198	255	192	248	196	253		
14	14.1	71	36	267	186	240	180	232	184	237		
16	15.89	63	31	214	140	181	135	175	141	182	3	Right angle K (M1): 154 (M5): 154 (M4): 154 Right angle T (M1): 154 (M4): 154
18	18.38	54	35	209	133	172	129	166	134	173		
20	19.89	50	36	198	133	172	129	167	134	173		
22.4	23.01	43	36	171	127	164	124	159	128	165		
25	25.05	40	36	157	119	154	117	151	119	154		
28	28.97	35	36	136	115	149	113	146	116	149		
31.5	30.39	33	36	130	105	135	104	134	105	135		
35.5	35.16	28	36	112	102	131	101	130	102	132		
40	38.27	26	36	103	99	127	98	126	99	128		
45	44.26	23	36	89	96	124	95	122	96	124		
50	48.05	21	36	82	87	112	86	111	87	112		
56	55.58	18	36	71	85	109	84	108	85	109		
63	63.88	16	36	62	81	104	80	103	81	104		
71	70.29	14	36	56	78	101	78	101	78	101		
80	80.78	12	36	49	78	100	77	100	78	100		
90	90.87	11	36	44	83	-	82	-	83	-	4	Right angle K (M1): 154 (M5): 154 (M4): 154 Right angle T (M1): 154 (M4): 154
100	104.43	10	36	38	83	-	81	-	83	-		
112	112.56	9	36	36	80	-	79	-	80	-		
125	129.36	8	36	31	80	-	78	-	80	-		
140	140.84	7	36	28	72	-	72	-	73	-		
160	161.86	6.2	36	25	72	-	71	-	72	-		
180	174.45	5.7	36	23	70	-	69	-	70	-		
200	200.48	5	36	20	69	-	69	-	69	-		
224	219.05	4.6	36	18	63	-	62	-	63	-		
250	251.74	4	36	16	62	-	62	-	62	-		
280	287.44	3.5	36	14	62	-	61	-	62	-		
315	318.38	3.1	36	13	58	-	58	-	58	-		
355	363.52	2.8	36	11	57	-	57	-	57	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W08 K/T - 1000 rpm

W08 - n1 = 1000 rpm												46 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
8	7.97	126	41.98	552	294	379	266	344	280	361	2	(M1): 155 (M5): 155 (M4): 155
9	9.16	109	46	526	272	351	249	321	262	338		
10	9.58	104	45.4	496	274	354	254	328	266	343		
11.2	11.02	91	46	437	255	329	236	305	248	319		
12.5	12.17	82	46	396	239	309	228	295	235	303		
14	14	71	46	344	224	288	213	275	220	283		
16	15.28	65	46	315	209	269	202	261	206	266		
18	17.58	57	46	274	195	252	189	244	193	249		
20	19.92	50	38	209	144	186	140	180	145	187	3	Right angle K (M1): 155 (M5): 155 (M4): 155 Right angle T (M1): 155 (M4): 155
22.4	22.91	44	43	206	138	178	133	172	138	178		
25	24.94	40	46	202	138	178	134	173	138	178		
28	28.68	35	46	176	133	171	129	166	133	172		
31.5	31.4	32	46	160	124	160	122	157	124	160		
35.5	36.11	28	46	140	120	155	118	152	120	155		
40	38.1	26	46	132	109	141	108	140	109	141		
45	43.83	23	46	115	106	137	105	135	106	137		
50	47.97	21	46	105	103	133	102	131	103	133		
56	55.18	18	46	91	100	129	99	127	100	129		
63	60.23	17	46	84	91	117	90	116	91	117		
71	69.28	14	46	73	88	114	88	113	88	114		
80	79.63	13	46	63	84	108	84	108	84	108		
90	87.62	11	46	58	82	105	81	105	82	105		
100	100.7	10	46	50	81	104	81	104	81	105		
112	113.28	9	46	45	87	-	86	-	87	-	4	Right angle K (M1): 155 (M5): 155 (M4): 155 Right angle T (M1): 155 (M4): 155
125	130.18	8	46	39	86	-	85	-	86	-		
140	140.31	7	46	37	84	-	82	-	84	-		
160	161.25	6	46	32	83	-	81	-	83	-		
180	175.56	6	46	29	75	-	75	-	75	-		
200	201.76	5	46	25	75	-	74	-	75	-		
224	217.46	4.6	46	24	73	-	72	-	73	-		
250	249.92	4	46	21	72	-	72	-	72	-		
280	273.06	3.7	46	19	65	-	65	-	65	-		
315	313.82	3.2	46	16	65	-	64	-	65	-		
355	358.31	2.8	46	14	64	-	64	-	64	-		
400	396.89	2.5	46	13	61	-	60	-	61	-		
450	453.16	2.2	46	11	60	-	60	-	60	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W09 K/T - 1000 rpm

W09 - n1 = 1000 rpm												58.5 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	157	45.8	754	309	401	274	355	291	378	2	(M1): 156 (M5): 156 (M4): 156
7.1	7.35	136	52.9	754	289	375	260	337	275	358		
8	7.64	131	55.3	757	288	374	262	340	277	359		
9	8.84	113	58.5	692	269	349	245	318	260	337		
10	9.71	103	56.3	607	249	323	235	305	244	316		
11.2	11.23	89	58.5	545	234	304	221	287	229	297		
12.5	12.19	82	58.5	502	220	285	211	274	217	281		
14	14.1	71	58.5	434	207	268	198	258	204	265		
16	15.79	63	50	347	157	203	151	195	158	204	3	Right angle K (M1): 156 (M5): 156 (M4): 156 Right angle T (M1): 156 (M4): 156
18	18.26	55	57	342	150	193	144	186	151	194		
20	19.69	51	58.5	325	150	193	145	187	151	194		
22.4	22.77	44	58.5	281	145	187	140	180	146	188		
25	24.67	41	58.5	260	143	184	139	179	143	185		
28	28.53	35	58.5	225	138	178	134	172	139	179		
31.5	30.52	33	58.5	210	124	160	122	157	124	160		
35.5	35.3	28	58.5	182	120	155	118	153	121	156		
40	38.23	26	58.5	168	117	151	115	148	117	151		
45	44.22	23	58.5	145	113	146	111	144	114	147		
50	48.01	21	58.5	133	103	132	102	131	103	132		
56	55.53	18	58.5	115	100	129	99	127	100	129		
63	63.09	16	58.5	102	94	122	94	121	94	122		
71	70.23	14	58.5	91	92	118	91	118	92	119		
80	79.79	13	58.5	80	91	117	90	117	91	118		
90	90.78	11	58.5	72	98	-	97	-	98	-	4	Right angle K (M1): 156 (M5): 156 (M4): 156 Right angle T (M1): 156 (M4): 156
100	103.15	10	58.5	63	97	-	96	-	97	-		
112	112.7	9	58.5	58	95	-	94	-	96	-		
125	128.05	8	58.5	51	95	-	93	-	95	-		
140	140.7	7	58.5	46	85	-	85	-	85	-		
160	159.86	6.3	58.5	41	84	-	84	-	84	-		
180	174.67	5.7	58.5	37	83	-	82	-	83	-		
200	198.46	5	58.5	33	82	-	81	-	82	-		
224	219.33	4.6	58.5	30	76	-	76	-	76	-		
250	249.2	4	58.5	26	75	-	75	-	75	-		
280	283.9	3.5	58.5	23	74	-	73	-	74	-		
315	315.17	3.2	58.5	21	71	-	70	-	71	-		
355	359.05	2.8	58.5	18	69	-	68	-	69	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W10 K/T - 1000 rpm

W10 - n1 = 1000 rpm												67 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.16	140	51.7	756	320	413	282	363	299	386	2	(M1): 157 (M5): 157 (M4): 157
8	8.26	121	59.6	756	299	385	268	345	284	366		
9	8.61	116	62.3	757	298	384	270	348	286	368		
10	9.93	101	67.0	706	278	359	253	327	268	346		
11.2	10.94	91	63.5	607	258	333	243	313	252	325		
12.5	12.62	79	67.0	556	242	312	228	294	237	305		
14	13.74	73	66.6	508	227	293	219	282	224	289		
16	15.84	63	67.0	443	214	276	205	265	211	272		
18	17.79	56	56	345	148	191	142	183	149	192	3	Right angle K (M1): 157 (M5): 157 (M4): 157 Right angle T (M1): 157 (M4): 157
20	20.51	49	64	342	141	182	135	174	142	183		
22.4	22.18	45	67	331	157	203	152	197	158	204		
25	25.58	39	67	287	152	196	147	189	152	197		
28	27.79	36	67	264	146	189	142	183	147	189		
31.5	32.05	31	67	229	141	182	137	177	142	183		
35.5	34.38	29	67	213	127	164	125	161	127	164		
40	39.65	25	67	185	123	159	121	156	124	159		
45	43.08	23	67	170	120	154	118	152	120	155		
50	49.67	20	67	148	116	150	114	147	117	150		
56	54.09	18	67	136	105	136	104	134	105	136		
63	62.37	16	67	118	102	132	101	131	103	132		
71	70.87	14	67	104	97	125	96	124	97	125		
80	78.88	13	67	93	94	121	94	121	94	122		
90	89.63	11	67	82	93	120	93	120	93	121		
100	101.98	10	67	73	100	-	99	-	101	-	4	Right angle K (M1): 157 (M5): 157 (M4): 157 Right angle T (M1): 157 (M4): 157
112	115.86	9	67	64	100	-	98	-	100	-		
125	126.6	8	67	59	98	-	96	-	98	-		
140	143.84	7	67	52	97	-	95	-	97	-		
160	158.05	6	67	47	87	-	87	-	87	-		
180	179.57	5.6	67	42	87	-	86	-	87	-		
200	196.21	5.1	67	38	85	-	84	-	85	-		
224	222.93	4.5	67	33	84	-	83	-	84	-		
250	246.38	4.1	67	30	78	-	77	-	78	-		
280	279.93	3.6	67	27	77	-	77	-	77	-		
315	318.9	3.1	67	23	75	-	75	-	75	-		
355	354.02	2.8	67	21	72	-	72	-	72	-		
400	403.32	2.5	67	19	70	-	70	-	70	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W11 K/T - 1000 rpm

W11 - n1 = 1000 rpm												80 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	157	60.4	995	373	480	320	413	345	445	2	(M1): 158 (M5): 158 (M4): 158
7.1	7.35	136	69.8	995	350	452	307	396	330	426		
8	7.64	131	78.3	1073	356	459	309	399	338	435		
9	8.84	113	80	948	334	430	289	373	317	409		
10	9.71	103	80	862	308	397	282	364	299	385		
11.2	11.23	89	80	746	289	373	264	341	281	362		
12.5	12.19	82	80	687	264	340	251	324	259	334		
14	14.1	71	80	594	249	321	237	305	245	316		
16	15.89	63	73	503	206	265	193	250	208	269	3	Right angle K (M1): 158 (M5): 158 (M4): 158 Right angle T (M1): 158 (M4): 158
18	18.38	54	80	477	196	253	185	238	198	256		
20	20.22	49	80	433	196	253	186	240	198	256		
22.4	23.39	43	80	375	190	245	179	230	192	248		
25	24.75	40	80	354	186	239	177	228	187	242		
28	28.63	35	80	306	180	231	170	220	181	234		
31.5	30.89	32	80	284	164	212	159	205	165	213		
35.5	35.73	28	80	245	159	205	154	199	160	207		
40	37.82	26	80	232	155	200	150	194	156	202		
45	43.74	23	80	200	151	194	145	187	152	196		
50	47.48	21	80	185	138	178	135	174	139	179		
56	54.92	18	80	160	134	173	131	169	135	174		
63	63.05	16	80	139	125	161	124	160	125	162		
71	69.46	14	80	126	122	157	120	155	122	158		
80	79.73	13	80	110	118	152	116	150	118	152		
90	88.35	11	80	101	129	-	125	-	129	-	4	Right angle K (M1): 158 (M5): 158 (M4): 158 Right angle T (M1): 158 (M4): 158
100	101.41	10	80	88	124	-	120	-	124	-		
112	111.23	9	80	80	123	-	119	-	123	-		
125	127.68	8	80	70	118	-	115	-	119	-		
140	136.93	7	80	65	114	-	112	-	114	-		
160	157.17	6.4	80	57	110	-	108	-	110	-		
180	172.39	5.8	80	52	108	-	107	-	109	-		
200	197.88	5.1	80	45	105	-	103	-	105	-		
224	216.47	4.6	80	41	98	-	97	-	98	-		
250	248.47	4	80	36	94	-	93	-	95	-		
280	285.56	3.5	80	31	93	-	92	-	93	-		
315	314.25	3.2	80	28	88	-	88	-	88	-		
355	361.15	2.8	80	25	86	-	86	-	86	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W12 K/T - 1000 rpm

W12 - n1 = 1000 rpm												92 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.16	140	68.0	995	384	495	327	422	353	455	2	(M1): 159 (M5): 159 (M4): 159
8	8.26	121	78.4	995	361	465	314	405	338	436		
9	8.61	116	88.3	1074	367	474	318	410	347	447		
10	9.93	101	92.0	970	344	443	298	384	326	421		
11.2	10.94	91	90.4	865	318	409	291	375	307	396		
12.5	12.62	79	92.0	764	298	385	273	352	289	373		
14	13.74	73	90.1	687	272	351	259	334	267	344		
16	15.84	63	92.0	608	257	331	244	315	252	325		
18	17.9	56	82	502	209	270	197	253	212	273	3	Right angle K (M1): 159 (M5): 159 (M4): 159 Right angle T (M1): 159 (M4): 159
20	20.64	48	92	488	199	257	188	242	201	260		
22.4	22.78	44	92	442	199	257	189	243	201	259		
25	26.27	38	92	384	192	248	181	234	194	251		
28	27.89	36	92	361	188	243	180	232	190	245		
31.5	32.16	31	92	313	182	235	173	223	184	237		
35.5	34.81	29	92	289	166	214	162	208	167	216		
40	40.14	25	92	251	161	208	156	201	162	209		
45	42.61	23	92	236	157	203	152	197	158	204		
50	49.13	20	92	205	153	197	147	190	154	198		
56	53.5	19	92	188	140	181	137	177	141	182		
63	61.7	16	92	163	136	176	133	172	137	177		
71	70.82	14	92	142	127	164	126	162	127	164		
80	78.03	13	92	129	124	159	122	157	124	160		
90	89.56	11	92	113	119	154	118	152	120	154		
100	99.24	10	92	103	130	-	127	-	130	-	4	Right angle K (M1): 159 (M5): 159 (M4): 159 Right angle T (M1): 159 (M4): 159
112	113.91	9	92	90	126	-	122	-	126	-		
125	124.94	8	92	82	124	-	121	-	125	-		
140	143.42	7	92	71	120	-	116	-	120	-		
160	153.81	7	92	67	115	-	113	-	115	-		
180	176.55	5.7	92	58	111	-	109	-	111	-		
200	193.64	5.2	92	53	110	-	108	-	110	-		
224	222.28	4.5	92	46	106	-	104	-	106	-		
250	243.16	4.1	92	42	99	-	98	-	99	-		
280	279.11	3.6	92	37	96	-	95	-	96	-		
315	320.76	3.1	92	32	94	-	93	-	95	-		
355	352.99	2.8	92	29	89	-	89	-	89	-		
400	405.67	2.5	92	25	88	-	87	-	88	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W13 K/T - 1000 rpm

W13 - n1 = 1000 rpm												115 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	157	95	1571	486	627	396	510	440	567	2	(M1): 160 (M5): 160 (M4): 160
7.1	7.35	136	110.3	1571	456	588	381	491	422	544		
8	7.64	131	115	1576	461	594	379	488	428	552		
9	8.84	113	115	1362	430	555	352	453	401	517		
10	9.71	103	115	1240	400	515	353	455	382	493		
11.2	11.23	89	115	1072	375	483	329	424	359	463		
12.5	12.19	82	115	988	346	447	320	412	337	435		
14	14.1	71	115	854	326	420	300	386	318	409		
16	16.09	62	115	783	271	345	250	319	276	351	3	Right angle K (M1): 160 (M5): 160 (M4): 160 Right angle T (M1): 160 (M4): 160
18	18.61	54	115	677	261	332	239	305	266	338		
20	20.27	49	115	621	263	335	242	309	268	341		
22.4	23.45	43	115	537	253	322	231	295	258	329		
25	24.45	41	115	515	237	302	222	283	240	306		
28	28.28	35	115	445	229	291	213	271	233	296		
31.5	30.58	33	115	412	209	266	200	255	211	269		
35.5	35.38	28	115	356	202	258	193	246	204	260		
40	38.3	26	115	329	203	258	194	247	205	261		
45	44.3	23	115	284	196	250	186	237	199	253		
50	48.09	21	115	262	182	231	176	224	183	233		
56	55.63	18	115	226	176	224	170	216	177	226		
63	62.68	16	115	201	165	210	162	207	166	211		
71	70.35	14	115	179	160	204	157	200	161	205		
80	79.27	13	115	159	155	197	151	193	156	198		
90	89.83	11	115	143	176	-	166	-	176	-	4	Right angle K (M1): 160 (M5): 160 (M4): 160 Right angle T (M1): 160 (M4): 160
100	101.22	10	115	127	170	-	160	-	170	-		
112	112.54	9	115	114	167	-	158	-	168	-		
125	126.81	8	115	101	161	-	151	-	162	-		
140	139.23	7	115	92	152	-	148	-	152	-		
160	156.87	6.4	115	82	147	-	142	-	147	-		
180	174.43	5.7	115	73	145	-	140	-	145	-		
200	196.54	5.1	115	65	140	-	135	-	140	-		
224	219.03	4.6	115	58	130	-	128	-	130	-		
250	246.79	4.1	115	52	126	-	123	-	126	-		
280	280.4	3.6	115	46	124	-	122	-	124	-		
315	312.12	3.2	115	41	117	-	115	-	117	-		
355	354.62	2.8	115	36	114	-	113	-	114	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W14 K/T - 1000 rpm

W14 - n1 = 1000 rpm												132 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.16	140	107.4	1571	495	639	400	515	444	572	2	(M1): 161 (M5): 161 (M4): 161
8	8.26	121	123.9	1571	469	604	388	500	430	554		
9	8.61	116	130.2	1583	470	607	385	496	434	560		
10	9.93	101	132	1392	442	571	361	466	411	530		
11.2	10.94	91	132	1263	408	527	360	465	390	503		
12.5	12.62	79	132	1096	385	497	338	436	369	475		
14	13.74	73	132	1006	354	457	327	421	345	444		
16	15.84	63	132	872	335	432	308	397	326	421		
18	18.13	55	132	798	266	343	240	310	273	352	3	Right angle K (M1): 161 (M5): 161 (M4): 161 Right angle T (M1): 161 (M4): 161
20	20.9	48	132	692	256	330	230	297	263	339		
22.4	22.84	44	132	633	257	332	231	298	264	340		
25	26.34	38	132	549	248	320	221	285	255	329		
28	27.55	36	132	525	226	292	212	273	230	296		
31.5	31.77	31	132	455	219	283	204	263	223	287		
35.5	34.46	29	132	420	199	257	192	247	201	260		
40	39.74	25	132	364	194	250	185	239	196	253		
45	43.15	23	132	335	194	250	185	239	196	253		
50	49.76	20	132	291	188	242	179	230	190	245		
56	54.19	18	132	267	173	224	168	216	175	225		
63	62.48	16	132	231	169	217	163	210	170	219		
71	70.4	14	132	205	158	203	155	200	159	204		
80	79.02	13	132	183	153	198	150	194	154	199		
90	89.04	11	132	162	148	191	145	187	149	192		
100	100.91	10	132	146	168	-	159	-	169	-	4	Right angle K (M1): 161 (M5): 161 (M4): 161 Right angle T (M1): 161 (M4): 161
112	113.7	9	132	129	163	-	153	-	163	-		
125	126.42	8	132	116	160	-	151	-	161	-		
140	142.44	7	132	103	155	-	145	-	155	-		
160	156.39	6	132	94	146	-	142	-	146	-		
180	176.21	5.7	132	83	141	-	137	-	141	-		
200	195.93	5.1	132	75	139	-	135	-	139	-		
224	220.77	4.5	132	67	134	-	130	-	134	-		
250	246.03	4.1	132	60	125	-	122	-	125	-		
280	277.22	3.6	132	53	121	-	118	-	121	-		
315	314.97	3.2	132	47	119	-	117	-	119	-		
355	350.6	2.9	132	42	112	-	110	-	112	-		
400	398.34	2.5	132	37	110	-	108	-	110	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W15 K/T - 1000 rpm

W15 - n1 = 1000 rpm												158 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
6.3	6.35	157	125.1	2063	555	716	429	553	489	631	2	(M1): 162 (M5): 162 (M4): 162
7.1	7.41	135	146.0	2063	519	669	414	534	470	606		
8	7.64	131	147.8	2026	517	667	422	544	476	613		
9	8.91	112	158	1856	482	621	397	511	448	578		
10	9.7	103	158	1704	464	599	394	508	439	566		
11.2	11.32	88	158	1461	433	558	365	471	410	529		
12.5	12.18	82	158	1358	406	523	365	470	392	506		
14	14.22	70	158	1164	380	490	339	437	367	474		
16	15.48	65	125	884	159	205	277	357	317	408	3	Right angle K (M1): 162 (M5): 162 (M4): 162 Right angle T (M1): 162 (M4): 162
18	18.07	55	145	879	308	396	264	340	299	386		
20	19.51	51	155	870	291	375	268	345	301	388		
22.4	22.77	44	158	760	293	377	254	328	287	371		
25	24.41	41	158	709	279	360	243	314	260	335		
28	28.49	35	158	607	256	330	233	301	251	324		
31.5	30.56	33	158	566	246	318	219	282	228	294		
35.5	35.67	28	158	485	226	291	211	272	221	285		
40	38.23	26	158	453	218	281	208	268	217	280		
45	44.63	22	158	388	214	276	200	258	210	271		
50	48.01	21	158	360	207	267	188	243	194	250		
56	56.04	18	158	309	192	248	182	235	188	243		
63	63.19	16	158	274	186	240	174	224	177	228		
71	70.87	14	158	244	176	226	168	217	172	221		
80	79.92	13	158	217	170	219	165	213	169	217		
90	90.49	11	158	194	186	-	179	-	187	-	4	Right angle K (M1): 162 (M5): 162 (M4): 162 Right angle T (M1): 162 (M4): 162
100	102.05	10	158	172	182	-	174	-	183	-		
112	113.38	9	158	155	177	-	170	-	178	-		
125	127.85	8	158	138	174	-	166	-	174	-		
140	140.25	7	158	125	161	-	158	-	161	-		
160	158.16	6.3	158	111	158	-	155	-	158	-		
180	175.72	5.7	158	100	154	-	150	-	154	-		
200	198.15	5	158	89	151	-	147	-	151	-		
224	220.64	4.5	158	80	139	-	137	-	139	-		
250	248.82	4	158	71	136	-	134	-	136	-		
280	282.7	3.5	158	62	135	-	132	-	135	-		
315	314.68	3.2	158	56	126	-	125	-	127	-		
355	357.53	2.8	158	49	124	-	123	-	124	-		

Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

W16 K/T - 1000 rpm

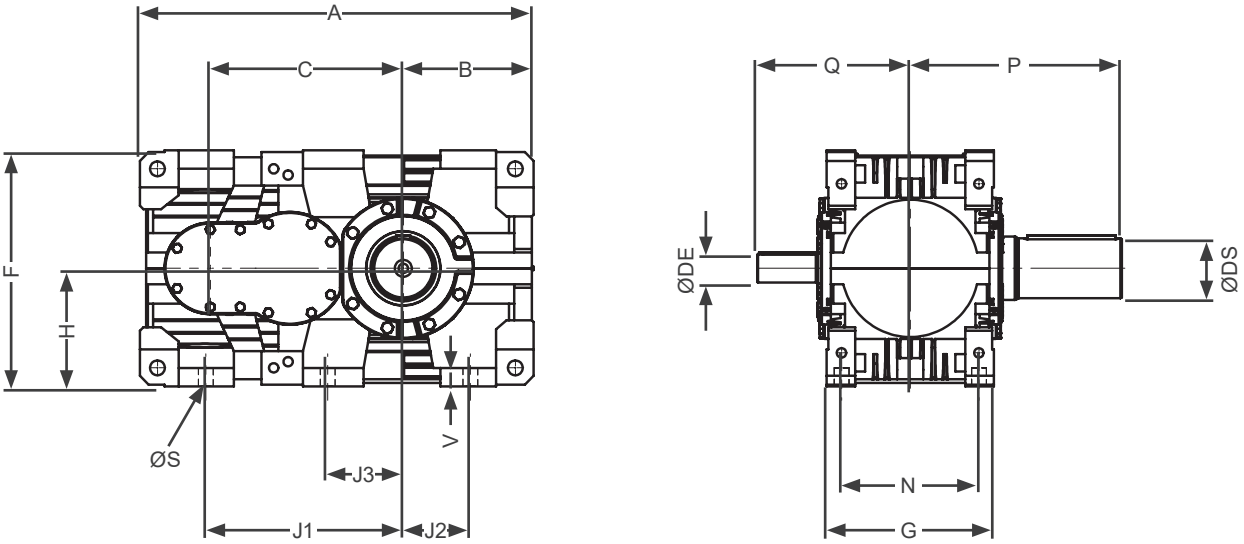
W16 - n1 = 1000 rpm												178 kNm
i_N	i_{ex}	n2 [rpm]	M2 [kNm]	P1 [kW]	PT 20 °C						ST	Dimensions
					Mounting Position - M1		Mounting Position - M5		Mounting Position - M2 and M4			
					PTG	PTV	PTG	PTV	PTG	PTV		
7.1	7.11	141	140	2063	562	724	430	555	490	631	2	(M1): 163 (M5): 163 (M4): 163
8	8.27	121	163	2063	525	676	416	537	472	609		
9	8.55	117	165	2026	524	675	426	549	479	617		
10	9.95	101	178	1874	488	629	401	517	452	583		
11.2	10.86	92	178	1715	471	607	400	515	444	572		
12.5	12.64	79	178	1475	439	565	370	477	415	535		
14	13.64	73	178	1367	412	532	370	477	398	513		
16	15.87	63	178	1175	385	497	344	444	372	480		
18	17.33	58	140	885	313	403	281	362	321	414	3	Right angle K (M1): 163 (M5): 163 (M4): 163 Right angle T (M1): 163 (M4): 163
20	20.17	50	160	869	296	381	267	345	303	391		
22.4	21.84	46	170	853	298	384	272	351	304	392		
25	25.41	39	178	767	284	367	258	333	291	375		
28	27.32	37	178	714	260	336	247	318	264	340		
31.5	31.79	31	178	613	251	323	236	305	254	328		
35.5	34.21	29	178	570	229	296	222	286	231	298		
40	39.8	25	178	490	222	286	214	276	224	289		
45	42.8	23	178	456	218	281	211	272	220	284		
50	49.8	20	178	391	211	272	203	261	213	274		
56	53.74	19	178	363	196	252	191	246	197	254		
63	62.53	16	178	312	189	244	184	238	191	246		
71	70.52	14	178	276	179	230	176	227	179	231		
80	79.09	13	178	247	173	223	170	220	174	224		
90	89.19	11	178	219	170	219	167	216	171	220		
100	100.99	10	178	196	188	-	181	-	189	-	4	Right angle K (M1): 163 (M5): 163 (M4): 163 Right angle T (M1): 163 (M4): 163
112	113.88	9	178	174	184	-	177	-	185	-		
125	126.52	8	178	157	179	-	172	-	180	-		
140	142.68	7	178	139	176	-	168	-	176	-		
160	156.52	6	178	127	163	-	160	-	163	-		
180	176.5	5.7	178	112	160	-	157	-	160	-		
200	196.09	5.1	178	101	156	-	152	-	156	-		
224	221.13	4.5	178	90	153	-	149	-	153	-		
250	246.23	4.1	178	81	140	-	139	-	141	-		
280	277.67	3.6	178	71	138	-	136	-	138	-		
315	315.48	3.2	178	63	136	-	134	-	136	-		
355	351.17	2.8	178	56	128	-	127	-	128	-		
400	398.99	2.5	178	50	126	-	125	-	126	-		

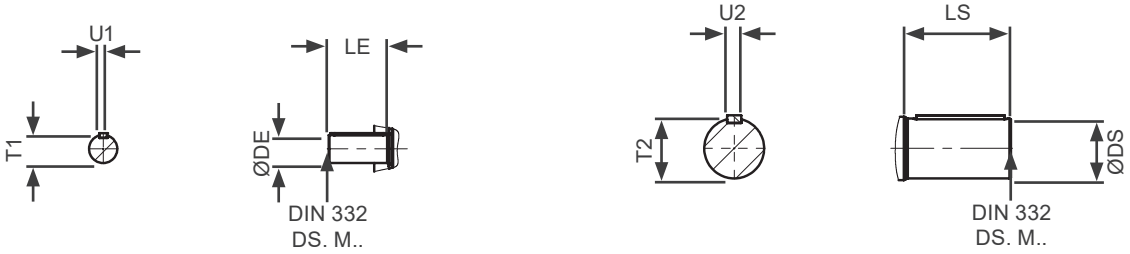
Notes: (-) = not available.
When the fan is installed on the input flange, PT is reduced by 20 %.
Right angle T models are available only in 3- and 4-stage configurations.

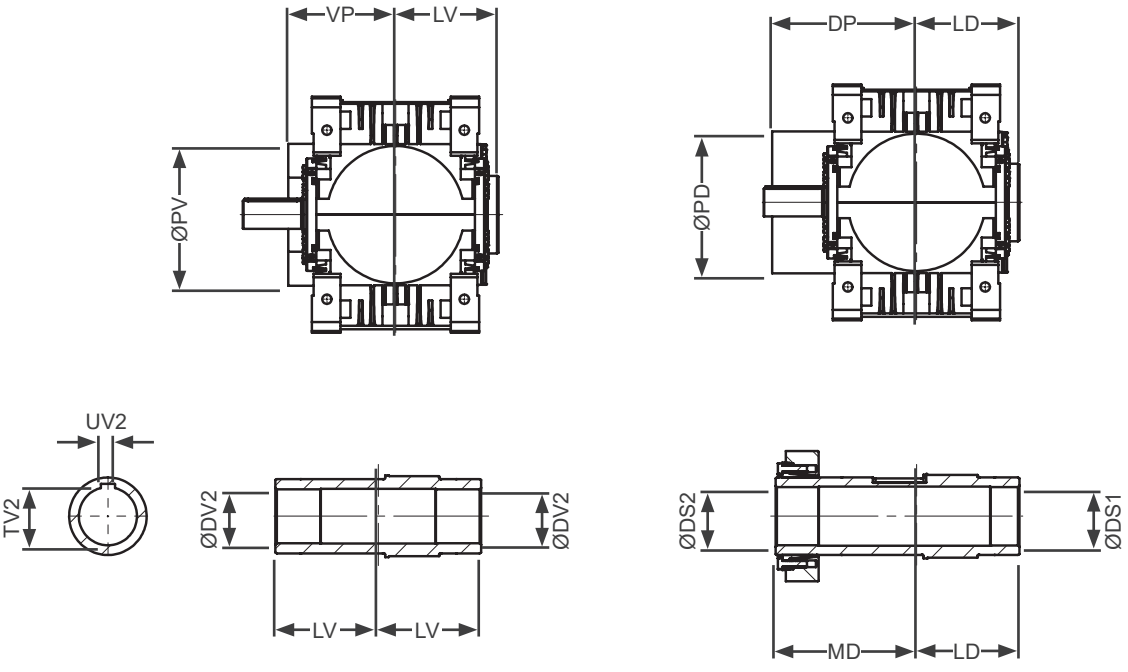
9 DIMENSIONS AND WEIGHT

9.1 HORIZONTAL MOUNTING

9.1.1 Parallel Shafts, 2 Stages







2 Stage	A	B	C	F	G	H	J1	J2	J3	N	P	Q	Ø S	V
W01	606	190	286	380	260	190	316	90	-	210	343	265	24 (x4)	29
W02	665	215	320	380	260	190	350	115	-	210	346	265	24 (x4)	29
W03	693	215	338	450	300	225	365	105	-	245	400	285	28 (x4)	33
W04	767	250	377	450	300	225	390	140	-	245	404	285	28 (x4)	33
W05	808	250	398	530	360	265	416	110	-	290	432	345	35 (4x)	40
W06	899	295	444	530	360	265	465	155	-	290	475	345	35 (4x)	40
W07	1015	355	470	630	425	315	490	185	-	340	506	380	42 (4x)	46
W08	1069	355	524	630	425	315	544	185	-	340	556	380	42 (4x)	46
W09	1118	370	548	670	475	335	561	190	215	390	592	440	42 (6x)	52
W10	1150	370	580	670	475	335	595	190	215	390	592	440	42 (6x)	52
W11	1260	420	617	750	515	375	630	205	230	420	612	460	48 (6x)	54
W12	1295	420	652	750	515	375	665	205	230	420	662	460	48 (6x)	54
W13	1422	465	707	850	570	425	740	250	280	440	702	535	48 (6x)	56
W14	1463	465	748	850	570	425	780	250	280	440	762	535	48 (6x)	56
W15	1531	495	766	900	630	450	790	250	305	510	810	575	56 (6x)	62
W16	1571	495	806	900	630	450	830	250	305	510	810	575	56 (6x)	62

Input Shaft					
2 Stage	Ø DE	LE	T1	U1	DIN 332 DS. M..
W01	40 k6	110	43	12 h9	M16
W02	40 k6	110	43	12 h9	M16
W03	50 k6	110	53.5	14 h9	M16
W04	50 k6	110	53.5	14 h9	M16
W05	60 m6	140	64	18 h9	M20
W06	60 m6	140	64	18 h9	M20
W07	70 m6	140	74.5	20 h9	M20
W08	70 m6	140	74.5	20 h9	M20
W09	80 m6	170	85	22 h9	M20
W10	80 m6	170	85	22 h9	M20
W11	95 m6	170	100	25 h9	M24
W12	95 m6	170	100	25 h9	M24
W13	105 m6	210	111	28 h9	M24
W14	105 m6	210	111	28 h9	M24
W15	115 m6	210	122	32 h9	M24
W16	115 m6	210	122	32 h9	M24

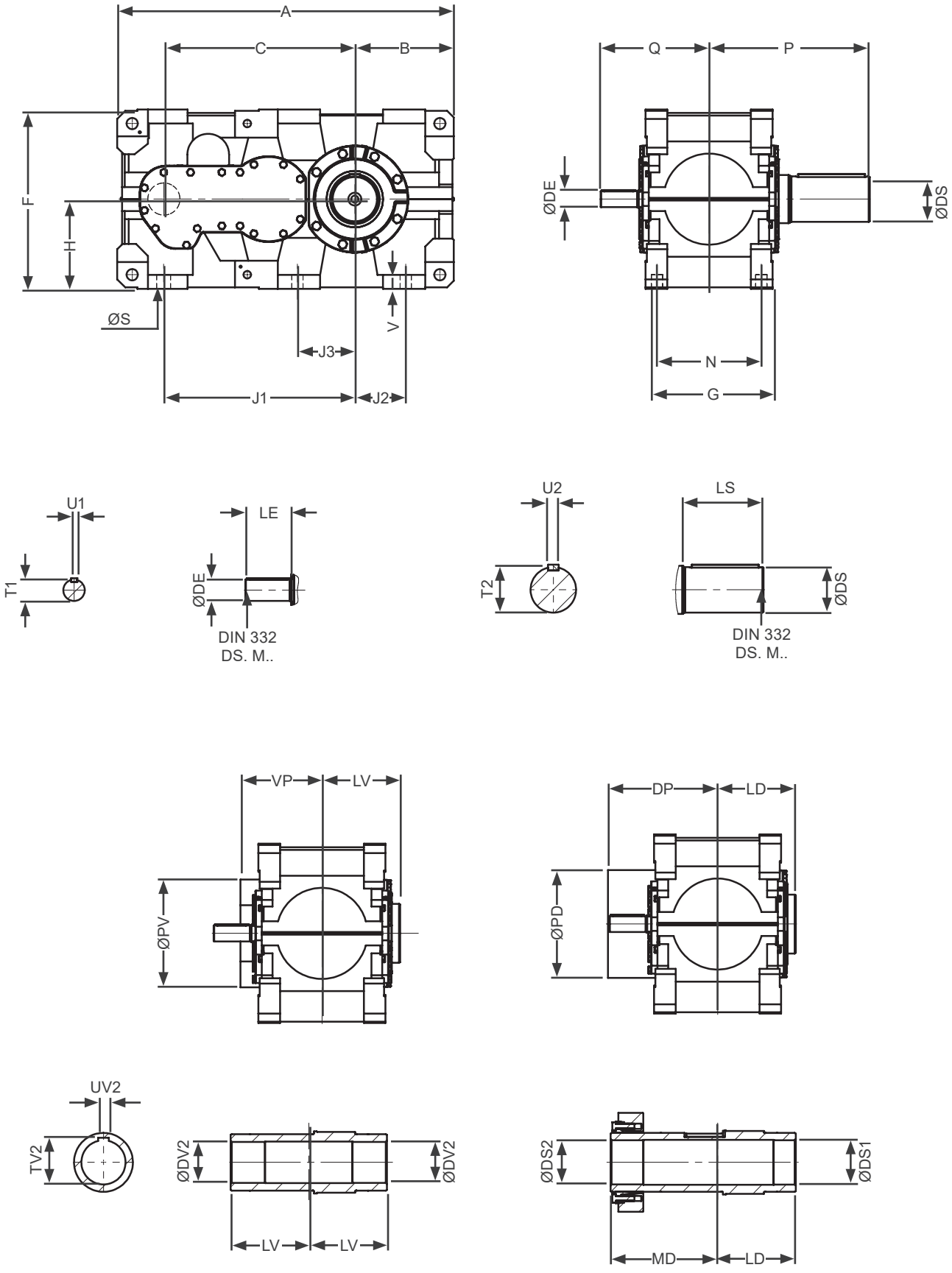
Solid Output Shaft						
2 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W01	80 m6	170	85	22 h9	M20	198
W02	90 m6	170	95	25 h9	M24	226.3
W03	100 m6	210	106	28 h9	M24	360.7
W04	110 m6	210	116	28 h9	M24	356
W05	120 m6	210	127	32 h9	M24	485
W06	130 m6	250	137	32 h9	M24	552
W07	140 m6	250	148	36 h9	M30	840
W08	160 m6	300	169	40 h9	M30	945
W09	170 m6	300	179	40 h9	M30	1161
W10	170 m6	300	179	40 h9	M30	1247

Solid Output Shaft						
2 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W11	180 m6	300	190	45 h9	M30	1656
W12	190 m6	350	200	45 h9	M30	1767
W13	210 m6	350	221	50 h9	M30	2267
W14	230 m6	410	241	50 h9	M36	2622
W15	230 m6	410	241	50 h9	M36	3051
W16	240 m6	410	252	56 h9	M36	3326

Hollow Output Shaft							
2 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W01	75 H8	173	230	79.9	20 JS9	181	184
W02	85 H8	176	210	90.4	22 JS9	181	207.1
W03	95 H8	190	224	100.4	25 JS9	197	330
W04	105 H8	194	236	111.4	28 JS9	201	320
W05	115 H8	222	254	122.4	32 JS9	265	436
W06	125 H8	224	268	132.4	32 JS9	265	488
W07	135 H8	256	278.6	143.4	36 JS9	305	753
W08	150 H8	256	308	158.4	36 JS9	305	867
W09	165 H8	292	334	174.4	40 JS9	345	1039
W10	165 H8	292	334	174.4	40 JS9	345	1122
W11	180 H8	319	386	190.4	45 JS9	370	1469
W12	190 H8	319	386	200.4	45 JS9	370	1577
W13	210 H8	352	432	221.4	50 JS9	400	2064
W14	210 H8	352	466	221.4	50 JS9	400	2229
W15	230 H8	400	470	241.4	50 JS9	460	2626
W16	240 H8	400	600	252.4	56 JS9	460	2881

Output Shaft Shrink Disc							
2 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W01	81 H9	80 H7	230	261	173	268	186
W02	91 H9	90 H7	240	264	176	272	208
W03	101 H9	100 H7	268	286	190	294	335
W04	111 H9	110 H7	280	296	194	305	322
W05	121 H9	120 H7	285	328	222	370	439
W06	131 H9	130 H7	316	336	224	375	493
W07	141 H9	140 H7	340	364	256	415	761
W08	151 H9	150 H7	370	364	256	415	878
W09	166 H9	165 H7	390	400	292	450	1072
W10	166 H9	165 H7	390	400	292	450	1156
W11	181 H9	180 H7	456	451	319	500	1495
W12	191 H9	190 H7	456	451	319	500	1604
W13	211 H9	210 H7	520	498	352	550	2095
W14	211 H9	210 H7	560	498	352	550	2260
W15	231 H9	230 H7	564	570	400	630	2663
W16	241 H9	240 H7	600	400	570	630	2915

9.1.2 Parallel Shafts, 3 Stages



DIMENSIONS AND WEIGHT

3 Stage	A	B	C	F	G	H	J1	J2	J3	N	P	Q	Ø S	V
W01	666	190	376	380	260	190	370	90	-	210	260	235	24 (4x)	29
W02	725	215	410	380	260	190	390	115	-	210	346	235	24 (4x)	29
W03	778	215	442	450	300	225	440	105	-	245	400	255	28 (4x)	33
W04	852	250	481	450	300	225	475	140	-	245	404	255	28 (4x)	33
W05	918	250	518	530	360	265	510	110	-	290	432	315	35 (4x)	40
W06	1009	295	564	530	360	265	555	155	-	290	475	315	35 (4x)	40
W07	1145	355	612	630	425	315	620	185	-	340	506	350	42 (4x)	46
W08	1199	355	666	630	425	315	670	185	-	340	556	350	42 (4x)	46
W09	1258	370	714	670	475	335	710	190	215	390	592	405	42 (6x)	52
W10	1290	370	746	670	475	335	740	190	215	390	592	405	42 (6x)	52
W11	1417	420	813	750	515	375	780	205	230	420	612	425	48 (6x)	54
W12	1452	420	848	750	515	375	815	205	230	420	662	425	48 (6x)	54
W13	1604	465	933	850	570	425	910	250	280	440	702	455	48 (6x)	56
W14	1644	465	973	850	570	425	950	250	280	440	762	455	48 (6x)	56
W15	1718	495	992	900	630	450	990	250	305	510	810	485	56 (6x)	62
W16	1758	495	1032	900	630	450	1010	250	305	510	810	485	56 (6x)	62

Input Shaft					
3 Stage	Ø DE	LE	T1	U1	DIN 332 DS. M..
W01	32 k6	80	34.8	10	M12
W02	32 k6	80	34.8	10	M12
W03	38 k6	80	41	10	M12
W04	38 k6	80	41	10	M12
W05	45 k6	110	48.5	14 h9	M16
W06	45 k6	110	48.5	14 h9	M16
W07	50 k6	110	53.5	14 h9	M16
W08	50 k6	110	53.5	14 h9	M16
W09	60 m6	140	64	18 h9	M20
W10	60 m6	140	64	18 h9	M20
W11	65 m6	140	69	18 h9	M20
W12	65 m6	140	69	18 h9	M20
W13	75 m6	140	79.5	20 h9	M20
W14	75 m6	140	79.5	20 h9	M20
W15	75 m6	140	79.5	20 h9	M20
W16	75 m6	140	79.5	20 h9	M20

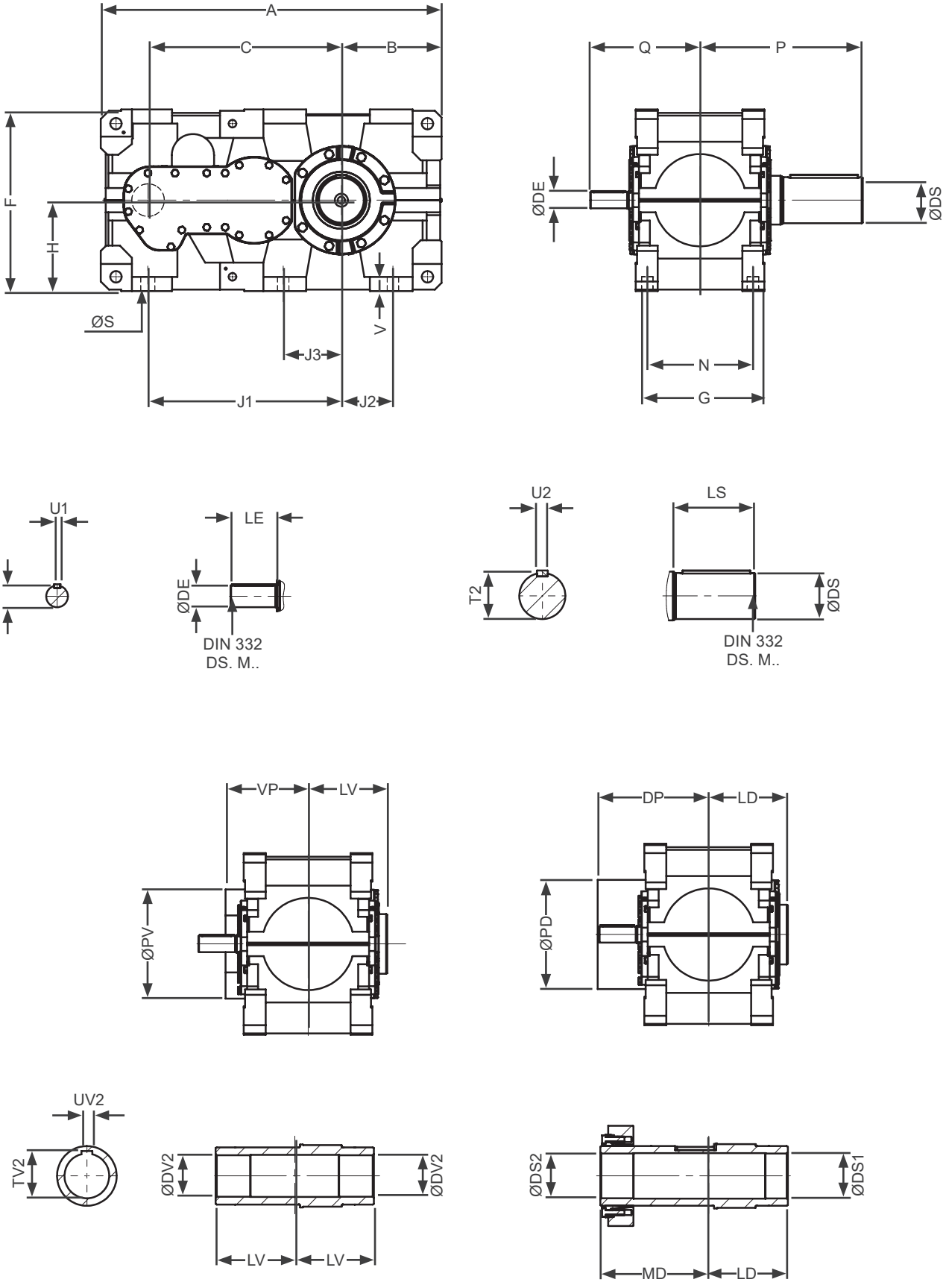
Solid Output Shaft						
3 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W01	80 m6	170	85	22 h9	M20	215.7
W02	90 m6	170	95	25 h9	M24	246
W03	100 m6	210	106	28 h9	M24	334
W04	110 m6	210	116	28 h9	M24	378
W05	120 m6	210	127	32 h9	M24	517
W06	130 m6	250	137	32 h9	M24	585
W07	140 m6	250	148	36 h9	M30	891
W08	160 m6	300	169	40 h9	M30	1000
W09	170 m6	300	179	40 h9	M30	1275
W10	170 m6	300	179	40 h9	M30	1355

Solid Output Shaft						
3 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W11	180 m6	300	190	45 h9	M30	1825
W12	190 m6	350	200	45 h9	M30	1936
W13	210 m6	350	221	50 h9	M30	2451
W14	230 m6	410	241	50 h9	M36	2828
W15	230 m6	410	241	50 h9	M36	3300
W16	240 m6	410	252	56 h9	M36	3565

Hollow Output Shaft							
3 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W01	75 H8	173	230	79.9	20 JS9	181	202
W02	85 H8	176	210	90.4	22 JS9	181	226.7
W03	95 H8	190	224	100.4	25 JS9	197	304.7
W04	105 H8	194	236	111.4	28 JS9	201	341.7
W05	115 H8	222	254	122.4	32 JS9	265	468
W06	125 H8	224	268	132.4	32 JS9	265	527
W07	135 H8	256	278.6	143.4	36 JS9	305	810
W08	150 H8	256	308	158.4	36 JS9	305	928
W09	165 H8	292	334	174.4	40 JS9	345	1153
W10	165 H8	292	334	174.4	40 JS9	345	1230
W11	180 H8	319	386	190.4	45 JS9	370	1618
W12	190 H8	319	386	200.4	45 JS9	370	1726
W13	210 H8	352	432	221.4	50 JS9	400	2224
W14	210 H8	352	466	221.4	50 JS9	400	2411
W15	230 H8	400	470	241.4	50 JS9	460	2827
W16	240 H8	400	504	252.4	56 JS9	460	3072

Shrink Disc Output Shaft							
3 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W01	81 H9	80 H7	230	261	173	268	204
W02	91 H9	90 H7	240	264	176	272	227.6
W03	101 H9	100 H7	268	286	190	294	307.8
W04	111 H9	110 H7	280	296	194	305	344
W05	121 H9	120 H7	285	328	222	370	471
W06	131 H9	130 H7	316	336	224	375	532
W07	141 H9	140 H7	340	364	256	415	818
W08	151 H9	150 H7	370	364	256	415	939
W09	166 H9	165 H7	390	400	292	450	1186
W10	166 H9	165 H7	390	400	292	450	1264
W11	181 H9	180 H7	456	451	319	500	1644
W12	191 H9	190 H7	456	451	319	500	1753
W13	211 H9	210 H7	520	498	352	550	2255
W14	211 H9	210 H7	560	498	352	550	2442
W15	231 H9	230 H7	564	570	400	630	2864
W16	241 H9	240 H7	600	570	400	630	3106

9.1.3 Parallel Shafts, 4 Stages



4 Stage	A	B	C	F	G	H	J1	J2	J3	N	P	Q	Ø S	V
W03	778	215	442	450	300	225	440	105	-	245	210	235	28 (4x)	33
W04	852	250	481	450	300	225	475	140	-	245	210	167	28 (4x)	33
W05	918	250	518	530	360	265	510	110	-	290	432	285	35 (4x)	40
W06	1009	295	564	530	360	265	555	155	-	290	475	285	35 (4x)	40
W07	1145	355	612	630	425	315	620	185	-	340	506	320	42 (4x)	46
W08	1199	355	666	630	425	315	670	185	-	340	556	320	42 (4x)	46
W09	1258	370	714	670	475	335	710	190	215	390	592	375	42 (6x)	52
W10	1290	370	746	670	475	335	740	190	215	390	592	375	42 (6x)	52
W11	1417	420	813	750	515	375	780	205	230	420	612	395	48 (6x)	54
W12	1452	420	848	750	515	375	815	205	230	420	662	395	48 (6x)	54
W13	1604	465	933	850	570	425	910	250	280	440	702	425	48 (6x)	56
W14	1644	465	973	850	570	425	950	250	280	440	762	425	48 (6x)	56
W15	1718	495	992	900	630	450	990	250	305	510	810	485	56 (6x)	62
W16	1758	495	1032	900	630	450	1010	250	305	510	810	485	56 (6x)	62

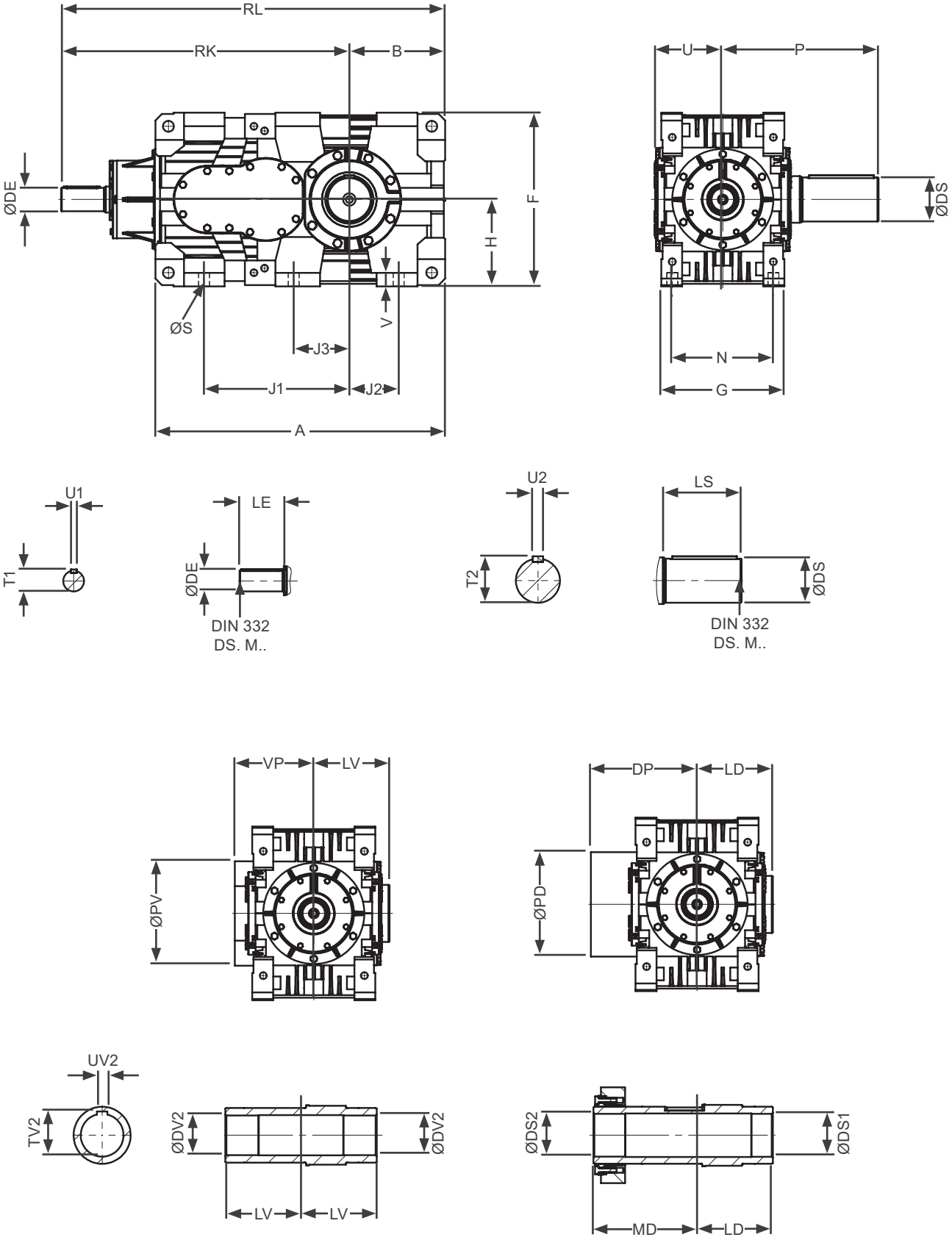
Input Shaft					
4 Stage	Ø DE	LE	T1	U1	DIN 332 DS. M..
W03	25 k6	60	28	8 h9	M10
W04	25 k6	60	28	8 h9	M10
W05	30 k6	80	33	8 h9	M10
W06	30 k6	80	33	8 h9	M10
W07	35 k6	80	38	10 h9	M12
W08	35 k6	80	38	10 h9	M12
W09	40 k6	110	43	12 h9	M16
W10	40 k6	110	43	12 h9	M16
W11	45 k6	110	48.5	14 h9	M16
W12	45 k6	110	48.5	14 h9	M16
W13	55 m6	110	59	16 h9	M20
W14	55 m6	110	59	16 h9	M20
W15	60 m6	140	64	18 h9	M20
W16	60 m6	140	64	18 h9	M20

Solid Output Shaft						
4 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W03	100 m6	210	106	28 h9	M24	339.6
W04	110 m6	210	116	28 h9	M24	381.6
W05	120 m6	210	127	32 h9	M24	520
W06	130 m6	250	137	32 h9	M24	594
W07	140 m6	250	148	36 h9	M30	906
W08	160 m6	300	169	40 h9	M30	1015
W09	170 m6	300	179	40 h9	M30	1288
W10	170 m6	300	179	40 h9	M30	1368
W11	180 m6	300	190	45 h9	M30	1827
W12	190 m6	350	200	45 h9	M30	1938
W13	210 m6	350	221	50 h9	M30	2471
W14	230 m6	410	241	50 h9	M36	2848
W15	230 m6	410	241	50 h9	M36	3293
W16	240 m6	410	252	56 h9	M36	3558

Hollow Output Shaft							
4 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W03	95 H8	190	224	100.4	25 JS9	197	310.1
W04	105 H8	194	236	111.4	28 JS9	201	345.1
W05	115 H8	222	254	122.4	32 JS9	265	471
W06	125 H8	224	268	132.4	32 JS9	265	530
W07	135 H8	256	278.6	143.4	36 JS9	305	819
W08	150 H8	256	308	158.4	36 JS9	305	937
W09	165 H8	292	334	174.4	40 JS9	345	1166
W10	165 H8	292	334	174.4	40 JS9	345	1243
W11	180 H8	319	386	190.4	45 JS9	370	1640
W12	190 H8	319	386	200.4	45 JS9	370	1748
W13	210 H8	352	432	221.4	50 JS9	400	2268
W14	210 H8	352	466	221.4	50 JS9	400	2455
W15	230 H8	400	470	241.4	50 JS9	460	2868
W16	240 H8	400	504	252.4	56 JS9	460	3113

Output Shaft Shrink Disc							
4 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W03	101 H9	100 H7	268	286	190	294	313.1
W04	111 H9	110 H7	280	296	194	305	347.3
W05	121 H9	120 H7	285	328	222	370	474
W06	131 H9	130 H7	316	336	224	375	535
W07	141 H9	140 H7	340	364	256	415	827
W08	151 H9	150 H7	370	364	256	415	948
W09	166 H9	165 H7	390	400	292	450	1199
W10	166 H9	165 H7	390	400	292	450	1277
W11	181 H9	180 H7	456	451	319	500	1666
W12	191 H9	190 H7	456	451	319	500	1775
W13	211 H9	210 H7	520	498	352	550	2299
W14	211 H9	210 H7	560	498	352	550	2486
W15	231 H9	230 H7	564	570	400	630	2905
W16	241 H9	240 H7	600	570	400	630	3147

9.1.4 Right Angle Shafts K, 2 Stages



DIMENSIONS AND WEIGHT

2 Estag.	A	B	F	G	H	J1	J2	J3	N	P	Ø S	U	V	RK	RL
W01	606	190	380	260	190	316	90	-	210	343	24 (4x)	147	29	656	846
W02	665	215	380	260	190	350	115	-	210	346	24 (4x)	147	29	690	905
W03	693	215	450	300	225	365	105	-	245	400	28 (4x)	167	33	745	941
W04	767	250	450	300	225	390	140	-	245	404	28 (4x)	167	33	765	1015
W05	808	250	530	360	265	416	110	-	290	432	35 (4x)	191	40	842	1092
W06	899	295	530	360	265	465	155	-	290	475	35 (4x)	191	40	888	1183
W07	1015	355	630	425	315	490	185	-	340	506	42 (4x)	226	46	984	1339
W08	1069	355	630	425	315	544	185	-	340	556	42 (4x)	226	46	1038	1393
W09	1118	370	670	475	335	561	190	215	390	592	42 (6x)	261	52	1102	1472
W10	1150	370	670	475	335	595	190	215	390	592	42 (6x)	261	52	1134	1504
W11	1260	420	750	515	375	630	205	230	420	612	48 (6x)	281	54	1275	1695
W12	1295	420	750	515	375	665	205	230	420	662	48 (6x)	281	54	1310	1730
W13	1422	465	850	570	425	740	250	280	440	702	48 (6x)	317	56	1405	1870
W14	1463	465	850	570	425	780	250	280	440	762	48 (6x)	317	56	1446	1911
W15	1531	495	900	630	450	790	250	305	510	810	56 (6x)	357	62	1570	2065
W16	1571	495	900	630	450	830	250	305	510	810	56 (6x)	357	62	1610	2105

Input Shaft					
2 Stage	**Ø DE**	**LE**	**T1**	**U1**	**DIN 332 DS. M..**
W01	45 k6	110	48.5	14 h9	M16
W02	45 k6	110	48.5	14 h9	M16
W03	55 m6	110	59	16 h9	M20
W04	55 m6	110	59	16 h9	M20
W05	70 m6	140	74.5	20 h9	M20
W06	70 m6	140	74.5	20 h9	M20
W07	80 m6	170	85	22 h9	M20
W08	80 m6	170	85	22 h9	M20
W09	90 m6	170	95	25 h9	M24
W10	90 m6	170	95	25 h9	M24
W11	100 m6	210	106	28 h9	M24
W12	100 m6	210	106	28 h9	M24
W13	120 m6	210	131	32 h9	M24
W14	120 m6	210	131	32 h9	M24
W15	130 m6	250	141	32 h9	M24
W16	130 m6	250	141	32 h9	M24

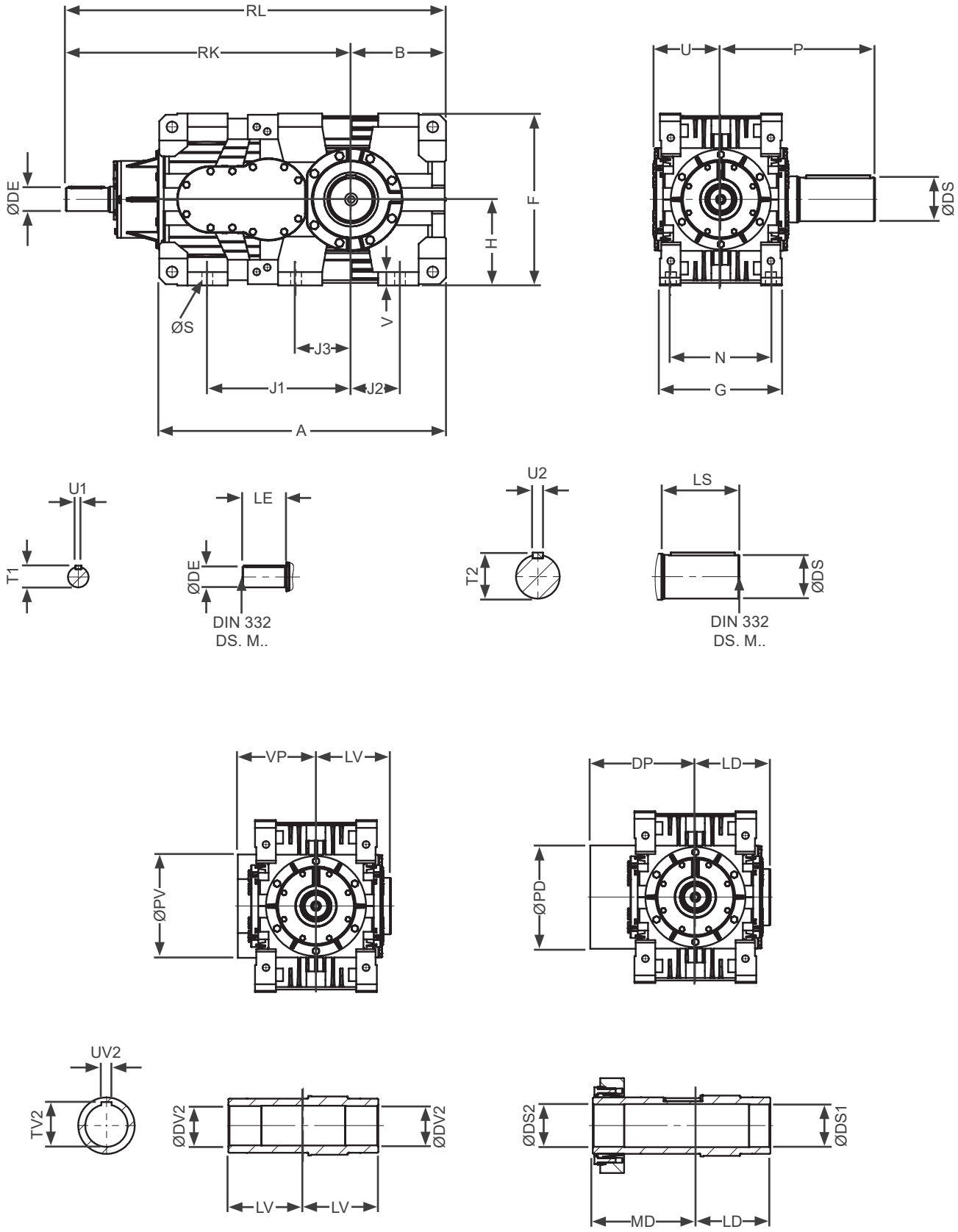
Solid Output Shaft						
2 Stage	**Ø DS**	**LS**	**T2**	**U2**	**DIN 332 DS. M..**	**kg**
W01	80 m6	170	85	22 h9	M20	217
W02	90 m6	170	95	25 h9	M24	245.9
W03	100 m6	210	106	28 h9	M24	380.5
W04	110 m6	210	116	28 h9	M24	378.6
W05	120 m6	210	127	32 h9	M24	543
W06	130 m6	250	137	32 h9	M24	610
W07	140 m6	250	148	36 h9	M30	901
W08	160 m6	300	169	40 h9	M30	1006
W09	170 m6	300	179	40 h9	M30	1256
W10	170 m6	300	179	40 h9	M30	1342

Solid Output Shaft						
2 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W11	180 m6	300	190	45 h9	M30	1771
W12	190 m6	350	200	45 h9	M30	1882
W13	210 m6	350	221	50 h9	M30	2456
W14	230 m6	410	241	50 h9	M36	2811
W15	230 m6	410	241	50 h9	M36	3273
W16	240 m6	410	252	56 h9	M36	3548

Solid Output Shaft							
2 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W01	75 H8	173	230	79.9	20 JS9	181	204
W02	85 H8	176	210	90.4	22 JS9	181	226.7
W03	95 H8	190	224	100.4	25 JS9	197	351
W04	105 H8	194	236	111.4	28 JS9	201	342
W05	115 H8	222	254	122.4	32 JS9	265	494
W06	125 H8	224	268	132.4	32 JS9	265	546
W07	135 H8	256	278.6	143.4	36 JS9	305	814
W08	150 H8	256	308	158.4	36 JS9	305	928
W09	165 H8	292	334	174.4	40 JS9	345	1134
W10	165 H8	292	334	174.4	40 JS9	345	1217
W11	180 H8	319	386	190.4	45 JS9	370	1584
W12	190 H8	319	386	200.4	45 JS9	370	1692
W13	210 H8	352	432	221.4	50 JS9	400	2253
W14	210 H8	352	466	221.4	50 JS9	400	2418
W15	230 H8	400	470	241.4	50 JS9	460	2848
W16	240 H8	400	504	252.4	56 JS9	460	3103

Hollow Output Shaft							
2 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W01	81 H9	80 H7	230	261	173	268	206
W02	91 H9	90 H7	240	264	176	272	227.6
W03	101 H9	100 H7	268	286	190	294	354
W04	111 H9	110 H7	280	296	194	305	344.3
W05	121 H9	120 H7	285	328	222	370	497
W06	131 H9	130 H7	316	336	224	375	551
W07	141 H9	140 H7	340	364	256	415	822
W08	151 H9	150 H7	370	364	256	415	939
W09	166 H9	165 H7	390	400	292	450	1167
W10	166 H9	165 H7	390	400	292	450	1251
W11	181 H9	180 H7	456	451	319	500	1610
W12	191 H9	190 H7	456	451	319	500	1719
W13	211 H9	210 H7	520	498	352	550	2284
W14	211 H9	210 H7	560	498	352	550	2449
W15	231 H9	230 H7	564	570	400	630	2885
W16	241 H9	240 H7	600	570	400	630	3137

9.1.5 Right Angle Shafts K, 3 Stages



3 Stage	A	B	F	G	H	J1	J2	J3	N	P	Ø S	U	V	RK	RL
W01	666	190	380	260	190	370	90	-	210	343	24	147	29	636	826
W02	725	215	380	260	190	390	115	-	210	346	24	147	29	670	885
W03	778	215	450	300	225	440	105	-	245	400	28	167	33	738	953
W04	852	250	450	300	225	475	140	-	245	404	28	167	33	777	1027
W05	913	250	530	360	265	510	110	-	290	432	35 (4x)	191	40	888	1138
W06	1004	295	530	360	265	555	155	-	290	475	35 (4x)	191	40	934	1229
W07	1140	355	630	425	315	620	185	-	340	506	42 (4x)	226	46	1000	1355
W08	1194	355	630	425	315	670	185	-	340	556	42 (4x)	226	46	1054	1409
W09	1253	370	670	475	335	710	190	215	390	592	42 (6x)	261	52	1158	1528
W10	1285	370	670	475	335	740	190	215	390	592	42 (6x)	261	52	1190	1560
W11	1412	420	750	515	375	780	205	230	420	612	48 (6x)	281	54	1327	1747
W12	1447	420	750	515	375	815	205	230	420	662	48 (6x)	281	54	1362	1782
W13	1597	465	850	570	425	910	250	280	440	702	48 (6x)	317	56	1497	1962
W14	1637	465	850	570	425	950	250	280	440	762	48 (6x)	317	56	1537	2002
W15	1711	495	900	630	450	990	250	305	510	810	56 (6x)	357	62	1556	2051
W16	1751	495	900	630	450	1010	250	305	510	810	56 (6x)	357	62	1596	2091

Input Shaft					
3 Stage	Ø DE	LE	T1	U1	DIN 332 DS. M..
W01	32 k6	80	35	10 h9	M12
W02	32 k6	80	35	10 h9	M12
W03	38 k6	80	41	10 h9	M12
W04	38 k6	80	41	10 h9	M12
W05	45 k6	110	48.5	14 h9	M16
W06	45 k6	110	48.5	14 h9	M16
W07	55 m6	110	59	16 h9	M20
W08	55 m6	110	59	16 h9	M20
W09	70 m6	140	74.5	20 h9	M20
W10	70 m6	140	74.5	20 h9	M20
W11	80 m6	170	85	22 h9	M20
W12	80 m6	170	85	22 h9	M20
W13	90 m6	170	95	25 h9	M24
W14	90 m6	170	95	25 h9	M24
W15	90 m6	170	95	25 h9	M24
W16	90 m6	170	95	25 h9	M24

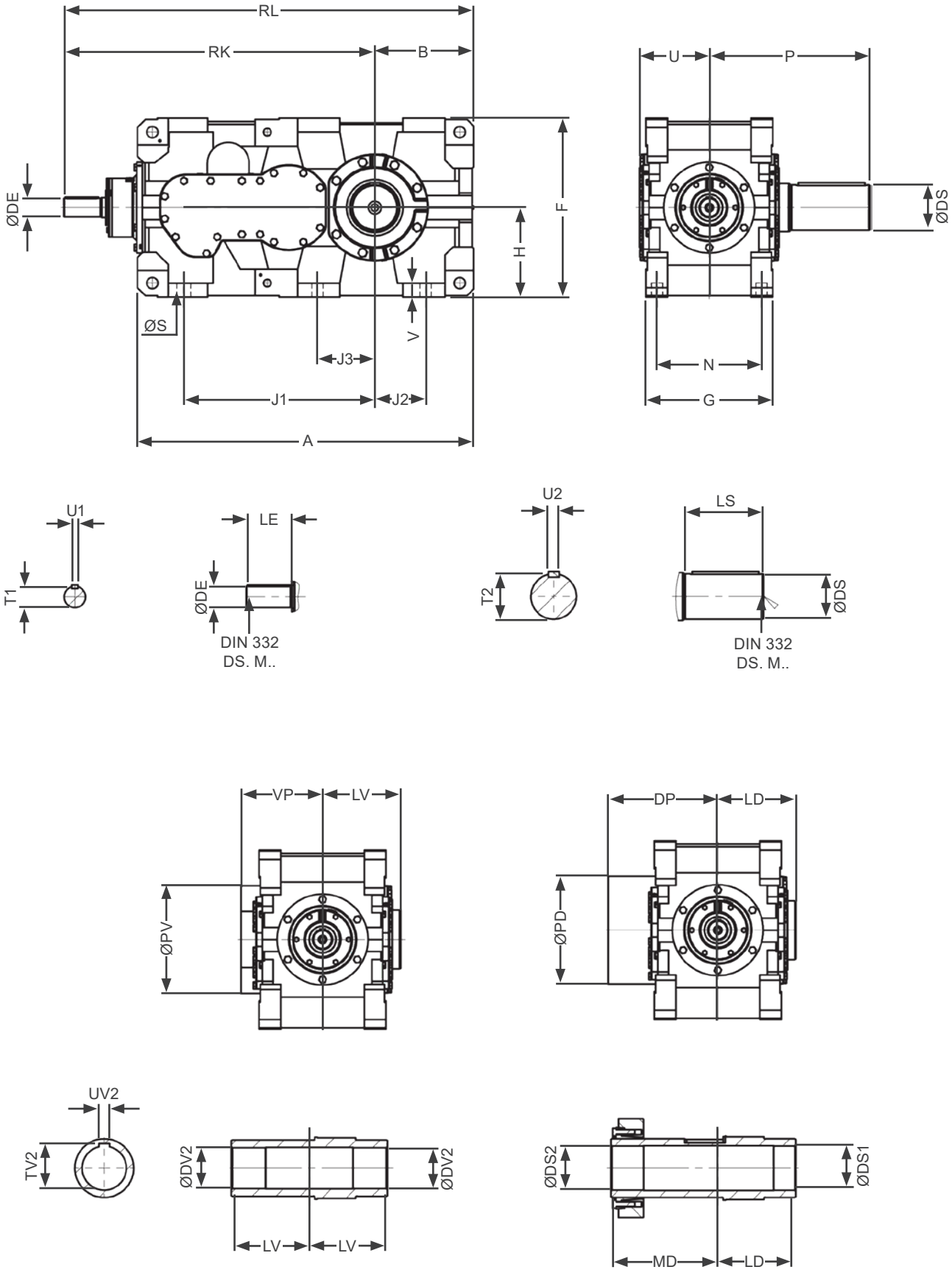
Solid Output Shaft						
3 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W01	80 m6	170	85	22 h9	M20	224.2
W02	90 m6	170	95	25 h9	M24	252.3
W03	100 m6	210	106	28 h9	M24	346.1
W04	110 m6	210	116	28 h9	M24	391.9
W05	120 m6	210	127	32 h9	M24	538
W06	130 m6	250	137	32 h9	M24	612
W07	140 m6	250	148	36 h9	M30	927
W08	160 m6	300	169	40 h9	M30	1036
W09	170 m6	300	179	40 h9	M30	1323
W10	170 m6	300	179	40 h9	M30	1403

Solid Output Shaft						
3 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W11	180 m6	300	190	45 h9	M30	1884
W12	190 m6	350	200	45 h9	M30	1995
W13	210 m6	350	221	50 h9	M30	2534
W14	230 m6	410	241	50 h9	M36	2911
W15	230 m6	410	241	50 h9	M36	3336
W16	240 m6	410	252	56 h9	M36	3600

Hollow Output Shaft							
3 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W01	75 H8	173	230	79.9	20 JS9	181	210.5
W02	85 H8	176	210	90.4	22 JS9	181	234.9
W03	95 H8	190	224	100.4	25 JS9	197	316.6
W04	105 H8	194	236	111.4	28 JS9	201	355.4
W05	115 H8	222	254	122.4	32 JS9	265	489
W06	125 H8	224	268	132.4	32 JS9	265	548
W07	135 H8	256	278.6	143.4	36 JS9	305	840
W08	150 H8	256	308	158.4	36 JS9	305	958
W09	165 H8	292	334	174.4	40 JS9	345	1201
W10	165 H8	292	334	174.4	40 JS9	345	1278
W11	180 H8	319	386	190.4	45 JS9	370	1697
W12	190 H8	319	386	200.4	45 JS9	370	1805
W13	210 H8	352	432	221.4	50 JS9	400	2331
W14	210 H8	352	466	221.4	50 JS9	400	2518
W15	230 H8	400	470	241.4	50 JS9	460	2911
W16	240 H8	400	504	252.4	56 JS9	460	3155

Output Shaft Shrink Disc							
3 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W01	81 H9	80 H7	230	261	173	268	212.7
W02	91 H9	90 H7	240	264	176	272	235.8
W03	101 H9	100 H7	268	286	190	294	319.6
W04	111 H9	110 H7	280	296	194	305	357.6
W05	121 H9	120 H7	285	328	222	370	492
W06	131 H9	130 H7	316	336	224	375	553
W07	141 H9	140 H7	340	364	256	415	848
W08	151 H9	150 H7	370	364	256	415	969
W09	166 H9	165 H7	390	400	292	450	1234
W10	166 H9	165 H7	390	400	292	450	1312
W11	181 H9	180 H7	456	451	319	500	1723
W12	191 H9	190 H7	456	451	319	500	1832
W13	211 H9	210 H7	520	498	352	550	2362
W14	211 H9	210 H7	560	498	352	550	2549
W15	231 H9	230 H7	564	570	400	630	2948
W16	241 H9	240 H7	600	570	400	630	3189

9.1.6 Right Angle Shafts K, 4 Stages



DIMENSIONS AND WEIGHT

4 Stage	A	B	F	G	H	J1	J2	J3	N	P	Ø S	U	V	RK	RL
W03	778	215	450	300	225	440	105	-	245	400	28 (4x)	167	33	732	947
W04	852	250	450	300	225	475	140	-	245	404	28 (4x)	167	33	771	1021
W05	913	250	530	360	265	510	110	-	290	432	35 (4x)	191	40	868	1118
W06	1004	295	530	360	265	555	155	-	290	475	35 (4x)	191	40	914	1209
W07	1140	355	630	425	315	620	185	-	340	506	42 (4x)	226	46	1012	1367
W08	1194	355	630	425	315	670	185	-	340	556	42 (4x)	226	46	1066	1421
W09	1253	370	670	475	335	710	190	215	390	592	42 (6x)	261	52	1204	1574
W10	1285	370	670	475	335	740	190	215	390	592	42 (6x)	261	52	1236	1606
W11	1412	420	750	515	375	780	205	230	420	612	48 (6x)	281	54	1343	1763
W12	1447	420	750	515	375	815	205	230	420	662	48 (6x)	281	54	1378	1798
W13	1597	465	850	570	425	910	250	280	440	702	48 (6x)	317	56	1543	2008
W14	1637	465	850	570	425	950	250	280	440	762	48 (6x)	317	56	1583	2048
W15	1711	495	900	630	450	990	250	305	510	810	56 (6x)	357	62	1602	2097
W16	1751	495	900	630	450	1010	250	305	510	810	56 (6x)	357	62	1642	2137

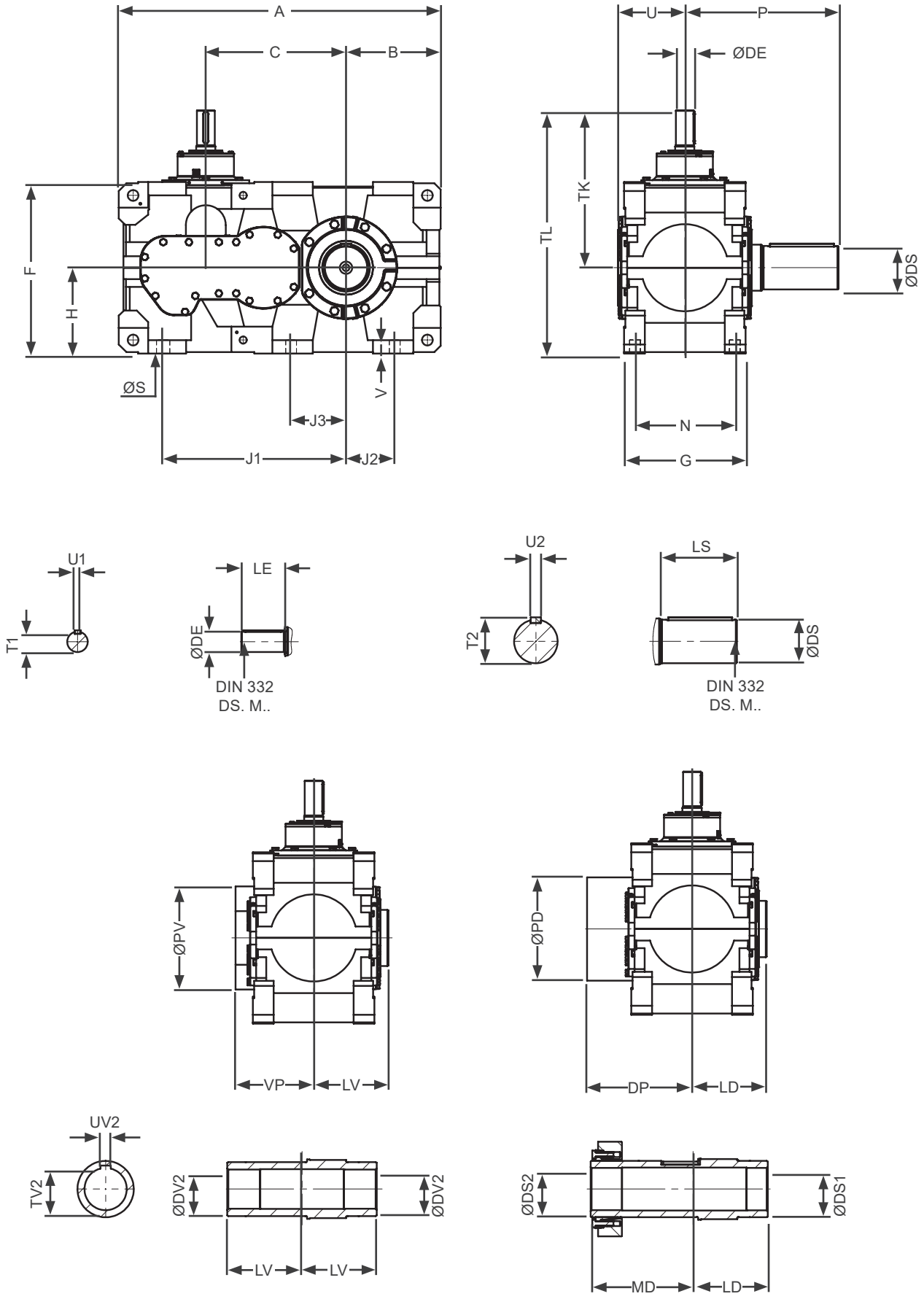
Input Shaft					
4 Stage	**Ø DE**	**LE**	**T1**	**U1**	**DIN 332 DS. M..**
W03	28 k6	60	31	8 h9	M10
W04	28 k6	60	31	8 h9	M10
W05	32 k6	80	35	10 h9	M12
W06	32 k6	80	35	10 h9	M12
W07	38 k6	80	41	10 h9	M12
W08	38 k6	80	41	10 h9	M12
W09	45 k6	110	48.5	14 h9	M16
W10	45 k6	110	48.5	14 h9	M16
W11	55 m6	110	59	16 h9	M20
W12	55 m6	110	59	16 h9	M20
W13	70 m6	140	74.5	20 h9	M20
W14	70 m6	140	74.5	20 h9	M20
W15	70 m6	140	74.5	20 h9	M20
W16	70 m6	140	74.5	20 h9	M20

Solid Output Shaft						
4 Stage	**Ø DS**	**LS**	**T2**	**U2**	**DIN 332 DS. M..**	**kg**
W03	100 m6	210	106	28 h9	M24	329.2
W04	110 m6	210	116	28 h9	M24	368.3
W05	120 m6	210	127	32 h9	M24	532
W06	130 m6	250	137	32 h9	M24	606
W07	140 m6	250	148	36 h9	M30	925
W08	160 m6	300	169	40 h9	M30	1034
W09	170 m6	300	179	40 h9	M30	1318
W10	170 m6	300	179	40 h9	M30	1398
W11	180 m6	300	190	45 h9	M30	1873
W12	190 m6	350	200	45 h9	M30	1984
W13	210 m6	350	221	50 h9	M30	2537
W14	230 m6	410	241	50 h9	M36	2914
W15	230 m6	410	241	50 h9	M36	3350
W16	240 m6	410	252	56 h9	M36	3614

Hollow Output Shaft							
4 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W03	95 H8	190	224	100.4	25 JS9	197	299.7
W04	105 H8	194	236	111.4	28 JS9	201	331.7
W05	115 H8	222	254	122.4	32 JS9	265	483
W06	125 H8	224	268	132.4	32 JS9	265	542
W07	135 H8	256	278.6	143.4	36 JS9	305	838
W08	150 H8	256	308	158.4	36 JS9	305	956
W09	165 H8	292	334	174.4	40 JS9	345	1196
W10	165 H8	292	334	174.4	40 JS9	345	1273
W11	180 H8	319	386	190.4	45 JS9	370	1686
W12	190 H8	319	386	200.4	45 JS9	370	1794
W13	210 H8	352	432	221.4	50 JS9	400	2334
W14	210 H8	352	466	221.4	50 JS9	400	2521
W15	230 H8	400	470	241.4	50 JS9	460	2925
W16	240 H8	400	504	252.4	56 JS9	460	3169

Output Shaft Shrink Disc							
4 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W03	101 H9	100 H7	268	286	190	294	302.7
W04	111 H9	110 H7	280	296	194	305	334
W05	121 H9	120 H7	285	328	222	370	486
W06	131 H9	130 H7	316	336	224	375	547
W07	141 H9	140 H7	340	364	256	415	846
W08	151 H9	150 H7	370	364	256	415	967
W09	166 H9	165 H7	390	400	292	450	1229
W10	166 H9	165 H7	390	400	292	450	1307
W11	181 H9	180 H7	456	451	319	500	1712
W12	191 H9	190 H7	456	451	319	500	1821
W13	211 H9	210 H7	520	498	352	550	2365
W14	211 H9	210 H7	560	498	352	550	2552
W15	231 H9	230 H7	564	570	400	630	2962
W16	241 H9	240 H7	600	570	400	630	3203

9.1.7 Right Angle Shafts T, 3 Stages



3 Stage	A	B	C	F	G	H	J1	J2	J3	N	P	Ø S	U	V	TK	TL
W01	666	190	286	380	260	190	370	90	-	210	343	24	147	29	350	540
W02	725	215	320	380	260	190	390	115	-	210	346	24	147	29	350	540
W03	778	215	338	450	300	225	440	105	-	245	400	28	167	33	400	625
W04	852	250	377	450	300	225	475	140	-	245	404	28	167	33	400	625
W05	913	250	398	530	360	265	510	110	-	290	432	35 (4x)	191	40	490	755
W06	1004	295	444	530	360	265	555	155	-	290	475	35 (4x)	191	40	490	755
W07	1140	355	470	630	425	315	620	185	-	340	506	42 (4x)	226	46	530	845
W08	1194	355	524	630	425	315	670	185	-	340	556	42 (4x)	226	46	530	845
W09	1253	370	548	670	475	335	710	190	215	390	592	42 (6x)	261	52	610	945
W10	1285	370	580	670	475	335	740	190	215	390	592	42 (6x)	261	52	610	945
W11	1412	420	617	750	515	375	780	205	230	420	612	48 (6x)	281	54	710	1085
W12	1447	420	652	750	515	375	815	205	230	420	662	48 (6x)	281	54	710	1085
W13	1597	465	707	850	570	425	910	250	280	440	702	48 (6x)	317	56	790	1215
W14	1637	465	747	850	570	425	950	250	280	440	762	48 (6x)	317	56	790	1215
W15	1711	495	766	900	630	450	990	250	305	510	810	56 (6x)	357	62	790	1240
W16	1751	495	806	900	630	450	1010	250	305	510	810	56 (6x)	357	62	790	1240

Input Shaft					
3 Stage	Ø DE	LE	T1	U1	DIN 332 DS. M..
W01	32 k6	80	35	10 h9	M12
W02	32 k6	80	35	10 h9	M12
W03	38 k6	80	41	10 h9	M12
W04	38 k6	80	41	10 h9	M12
W05	45 k6	110	48.5	14 h9	M16
W06	45 k6	110	48.5	14 h9	M16
W07	55 m6	110	59	16 h9	M20
W08	55 m6	110	59	16 h9	M20
W09	70 m6	140	74.5	20 h9	M20
W10	70 m6	140	74.5	20 h9	M20
W11	80 m6	170	85	22 h9	M20
W12	80 m6	170	85	22 h9	M20
W13	90 m6	170	95	25 h9	M24
W14	90 m6	170	95	25 h9	M24
W15	90 m6	170	95	25 h9	M24
W16	90 m6	170	95	25 h9	M24

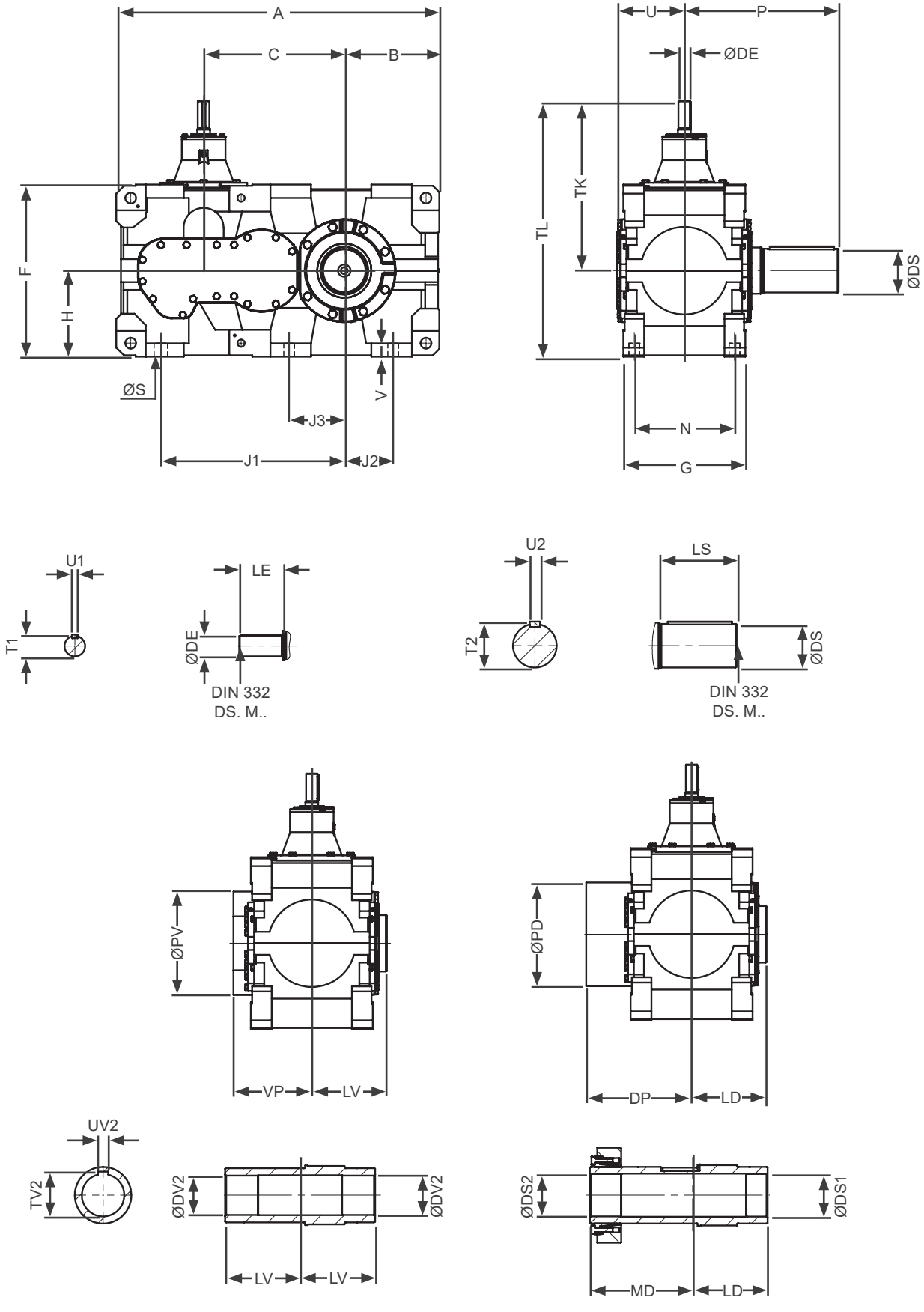
Solid Output Shaft						
3 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W01	80 m6	170	85	22 h9	M20	224.8
W02	90 m6	170	95	25 h9	M24	254.5
W03	100 m6	210	106	28 h9	M24	350.8
W04	110 m6	210	116	28 h9	M24	390.9
W05	120 m6	210	127	32 h9	M24	538
W06	130 m6	250	137	32 h9	M24	612
W07	140 m6	250	148	36 h9	M30	927
W08	160 m6	300	169	40 h9	M30	1036
W09	170 m6	300	179	40 h9	M30	1323
W10	170 m6	300	179	40 h9	M30	1403

Solid Output Shaft						
3 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W11	180 m6	300	190	45 h9	M30	1884
W12	190 m6	350	200	45 h9	M30	1995
W13	210 m6	350	221	50 h9	M30	2534
W14	230 m6	410	241	50 h9	M36	2911
W15	230 m6	410	241	50 h9	M36	3336
W16	240 m6	410	252	56 h9	M36	3600

Hollow Output Shaft							
3 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W01	75 H8	173	230	79.9	20 JS9	181	211
W02	85 H8	176	210	90.4	22 JS9	181	235.3
W03	95 H8	190	224	100.4	25 JS9	197	318.6
W04	105 H8	194	236	111.4	28 JS9	201	354.3
W05	115 H8	222	254	122.4	32 JS9	265	489
W06	125 H8	224	268	132.4	32 JS9	265	548
W07	135 H8	256	278.6	143.4	36 JS9	305	840
W08	150 H8	256	308	158.4	36 JS9	305	958
W09	165 H8	292	334	174.4	40 JS9	345	1201
W10	165 H8	292	334	174.4	40 JS9	345	1278
W11	180 H8	319	386	190.4	45 JS9	370	1697
W12	190 H8	319	386	200.4	45 JS9	370	1805
W13	210 H8	352	432	221.4	50 JS9	400	2331
W14	210 H8	352	466	221.4	50 JS9	400	2518
W15	230 H8	400	470	241.4	50 JS9	460	2911
W16	240 H8	400	504	252.4	56 JS9	460	3155

Output Shaft Shrink Disc							
3 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W01	81 H9	80 H7	230	261	173	268	213.2
W02	91 H9	90 H7	240	264	176	272	236.2
W03	101 H9	100 H7	268	286	190	294	321.7
W04	111 H9	110 H7	280	296	194	305	356.6
W05	121 H9	120 H7	285	328	222	370	492
W06	131 H9	130 H7	316	336	224	375	553
W07	141 H9	140 H7	340	364	256	415	848
W08	151 H9	150 H7	370	364	256	415	969
W09	166 H9	165 H7	390	400	292	450	1234
W10	166 H9	165 H7	390	400	292	450	1312
W11	181 H9	180 H7	456	451	319	500	1723
W12	191 H9	190 H7	456	451	319	500	1832
W13	211 H9	210 H7	520	498	352	550	2362
W14	211 H9	210 H7	560	498	352	550	2549
W15	231 H9	230 H7	564	570	400	630	2948
W16	241 H9	240 H7	600	570	400	630	3189

9.1.8 Right Angle Shafts T, 4 Stages



DIMENSIONS AND WEIGHT

4 Stage	A	B	C	F	G	H	J1	J2	J3	N	P	Ø S	U	V	TK	TL
W03	778	215	338	450	300	225	440	105	-	245	400	28 (4x)	167	33	397	622
W04	852	250	377	450	300	225	475	140	-	245	404	28 (4x)	167	33	394	619
W05	913	250	398	530	360	265	510	110	-	290	432	35 (4x)	191	40	470	735
W06	1004	295	444	530	360	265	555	155	-	290	475	35 (4x)	191	40	470	735
W07	1140	355	470	630	425	315	620	185	-	340	506	42 (4x)	226	46	542	857
W08	1194	355	524	630	425	315	670	185	-	340	556	42 (4x)	226	46	542	857
W09	1253	370	548	670	475	335	710	190	215	390	592	42 (6x)	261	52	656	991
W10	1285	370	580	670	475	335	740	190	215	390	592	42 (6x)	261	52	656	991
W11	1412	420	617	750	515	375	780	205	230	420	612	48 (6x)	281	54	726	1101
W12	1447	420	652	750	515	375	815	205	230	420	662	48 (6x)	281	54	726	1101
W13	1597	465	707	850	570	425	910	250	280	440	702	48 (6x)	317	56	836	1261
W14	1637	465	747	850	570	425	950	250	280	440	762	48 (6x)	317	56	836	1261
W15	1711	495	766	900	630	450	990	250	305	510	810	56 (6x)	357	62	836	1286
W16	1751	495	806	900	630	450	1010	250	305	510	810	56 (6x)	357	62	836	1286

Input Shaft					
4 Stage	**Ø DE**	**LE**	**T1**	**U1**	**DIN 332 DS. M..**
W03	28 k6	60	31	8 h9	M10
W04	28 k6	60	31	8 h9	M10
W05	32 k6	80	35	10 h9	M12
W06	32 k6	80	35	10 h9	M12
W07	38 k6	80	41	10 h9	M12
W08	38 k6	80	41	10 h9	M12
W09	45 k6	110	48.5	14 h9	M16
W10	45 k6	110	48.5	14 h9	M16
W11	55 m6	110	59	16 h9	M20
W12	55 m6	110	59	16 h9	M20
W13	70 m6	140	74.5	20 h9	M20
W14	70 m6	140	74.5	20 h9	M20
W15	70 m6	140	74.5	20 h9	M20
W16	70 m6	140	74.5	20 h9	M20

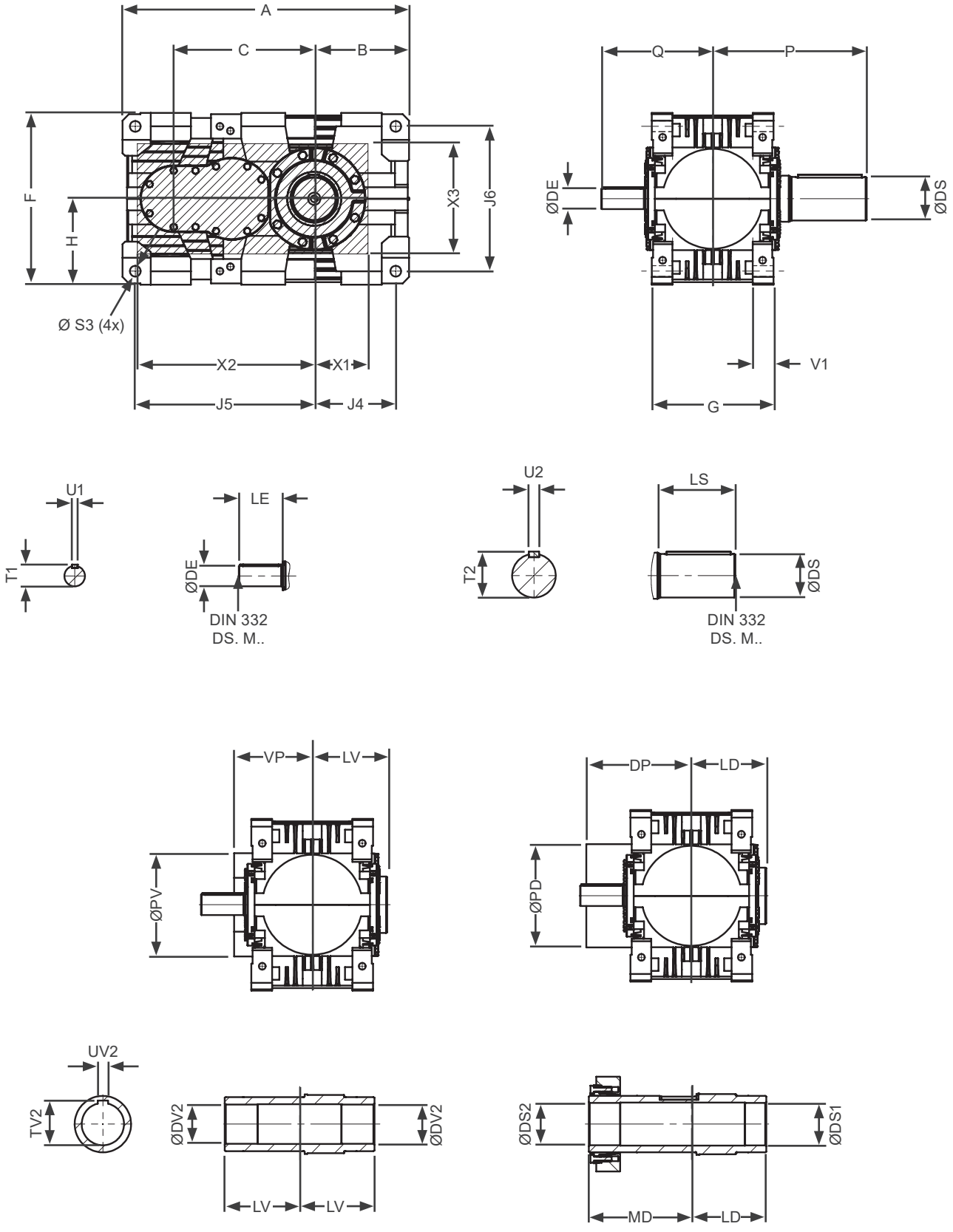
Solid Output Shaft						
4 Stage	**Ø DS**	**LS**	**T2**	**U2**	**DIN 332 DS. M..**	**kg**
W03	100 m6	210	106	28 h9	M24	343.2
W04	110 m6	210	116	28 h9	M24	369.1
W05	120 m6	210	127	32 h9	M24	532
W06	130 m6	250	137	32 h9	M24	606
W07	140 m6	250	148	36 h9	M30	925
W08	160 m6	300	169	40 h9	M30	1034
W09	170 m6	300	179	40 h9	M30	1318
W10	170 m6	300	179	40 h9	M30	1398
W11	180 m6	300	190	45 h9	M30	1873
W12	190 m6	350	200	45 h9	M30	1984
W13	210 m6	350	221	50 h9	M30	2537
W14	230 m6	410	241	50 h9	M36	2914
W15	230 m6	410	241	50 h9	M36	3350
W16	240 m6	410	252	56 h9	M36	3614

Hollow Output Shaft							
4 Stage	**Ø DV2**	**LV**	**Ø PV**	**TV2**	**UV2**	**VP**	**kg**
W03	95 H8	190	224	100.4	25 JS9	197	313.7
W04	105 H8	194	236	111.4	28 JS9	201	334.3
W05	115 H8	222	254	122.4	32 JS9	265	483
W06	125 H8	224	268	132.4	32 JS9	265	542
W07	135 H8	256	278.6	143.4	36 JS9	305	838
W08	150 H8	256	308	158.4	36 JS9	305	956
W09	165 H8	292	334	174.4	40 JS9	345	1196
W10	165 H8	292	334	174.4	40 JS9	345	1273
W11	180 H8	319	386	190.4	45 JS9	370	1686
W12	190 H8	319	386	200.4	45 JS9	370	1794
W13	210 H8	352	432	221.4	50 JS9	400	2334
W14	210 H8	352	466	221.4	50 JS9	400	2521
W15	230 H8	400	470	241.4	50 JS9	460	2925
W16	240 H8	400	504	252.4	56 JS9	460	3169

Output Shaft Shrink Disc							
4 Stage	**Ø DS1**	**Ø DS2**	**Ø PD**	**MD**	**LD**	**DP**	**kg**
W03	101 H9	100 H7	268	286	190	294	316.7
W04	111 H9	110 H7	280	296	194	305	336.6
W05	121 H9	120 H7	285	328	222	370	486
W06	131 H9	130 H7	316	336	224	375	547
W07	141 H9	140 H7	340	364	256	415	846
W08	151 H9	150 H7	370	364	256	415	967
W09	166 H9	165 H7	390	400	292	450	1229
W10	166 H9	165 H7	390	400	292	450	1307
W11	181 H9	180 H7	456	451	319	500	1712
W12	191 H9	190 H7	456	451	319	500	1821
W13	211 H9	210 H7	520	498	352	550	2365
W14	211 H9	210 H7	560	498	352	550	2552
W15	231 H9	230 H7	564	570	400	630	2962
W16	241 H9	240 H7	600	570	400	630	3203

9.2 VERTICAL MOUNTING

9.2.1 Parallel Shafts, 2 Stages



The dimensions of the hatched areas X1, X2, and X3 are suggestions for designing the gearbox mounting base.

2 Stage	A	B	C	F	G	H	J4	J5	J6	P	Q	Ø S3 (4x)	V1	X1	X2	X3
W01	606	190	286	380	260	190	160	386	315	343	265	24	47	125	365	240
W02	665	215	320	380	260	190	185	420	315	346	265	24	47	130	400	260
W03	693	215	338	450	300	225	184	447	380	400	285	28	53	145	430	300
W04	767	250	377	450	300	225	219	486	380	404	285	28	53	150	470	300
W05	808	250	398	530	360	265	210	518	445	432	345	35	67	165	500	330
W06	899	295	444	530	360	265	255	819	445	475	345	35	67	170	550	340
W07	1015	355	470	630	425	315	303	612	525	506	380	42	81	190	590	370
W08	1069	355	524	630	425	315	303	666	525	556	380	42	81	200	640	400
W09	1118	370	548	670	475	335	318	698	565	592	440	42	81	210	690	430
W10	1150	370	580	670	475	335	318	730	565	592	440	42	81	210	720	430
W11	1260	420	617	750	515	375	360	780	630	612	460	48	91	240	770	480
W12	1295	420	652	750	515	375	360	815	630	662	460	48	91	240	810	480
W13	1422	465	707	850	570	425	403	897	725	702	535	48	105	270	880	540
W14	1463	465	748	850	570	425	403	938	725	762	535	48	105	290	930	580
W15	1531	495	766	900	630	450	425	966	760	810	575	56	105	290	960	580
W16	1571	495	806	900	630	450	425	1006	760	810	575	56	105	310	1000	620

Input Shaft					
2 Stage	Ø DE	LE	T1	U1	DIN 332 DS. M..
W01	40 k6	110	43	12 h9	M16
W02	40 k6	110	43	12 h9	M16
W03	50 k6	110	46.5	14 h9	M16
W04	50 k6	110	46.5	14 h9	M16
W05	60 m6	140	64	18 h9	M20
W06	60 m6	140	64	18 h9	M20
W07	70 m6	140	74.5	20 h9	M20
W08	70 m6	140	74.5	20 h9	M20
W09	80 m6	170	85	22 h9	M20
W10	80 m6	170	85	22 h9	M20
W11	95 m6	170	100	25 h9	M24
W12	95 m6	170	100	25 h9	M24
W13	105 m6	210	111	28 h9	M24
W14	105 m6	210	111	28 h9	M24
W15	115 m6	210	122	32 h9	M24
W16	115 m6	210	122	32 h9	M24

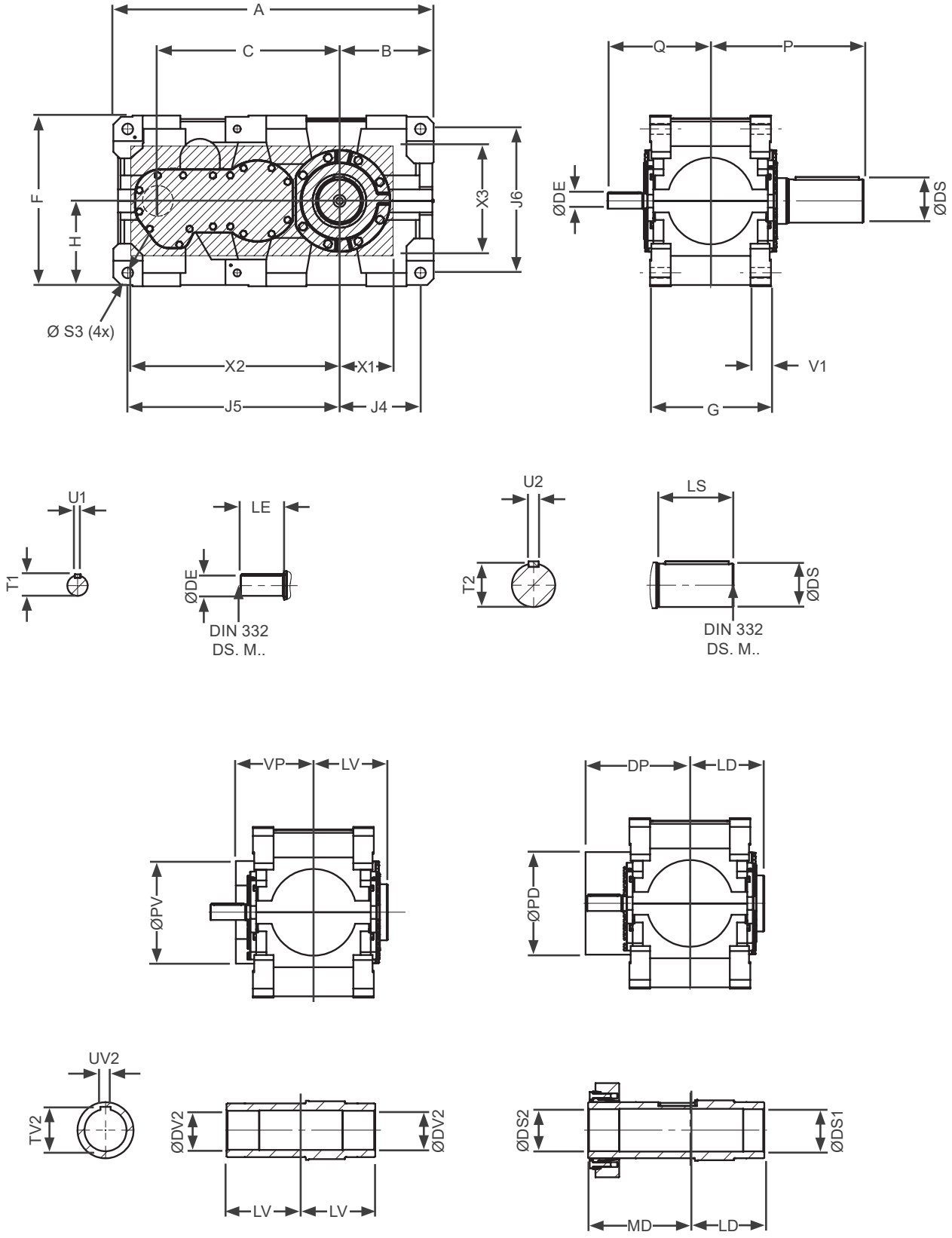
Solid Output Shaft						
2 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W01	80 m6	170	85	22 h9	M20	198
W02	90 m6	170	95	25 h9	M24	226.3
W03	100 m6	210	106	28 h9	M24	360
W04	110 m6	210	116	28 h9	M24	356
W05	120 m6	210	127	32 h9	M24	485
W06	130 m6	250	137	32 h9	M24	552
W07	140 m6	250	148	36 h9	M30	840
W08	160 m6	300	169	40 h9	M30	945
W09	170 m6	300	179	40 h9	M30	1161
W10	170 m6	300	179	40 h9	M30	1247

Solid Output Shaft						
2 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W11	180 m6	300	190	45 h9	M30	1656
W12	190 m6	350	200	45 h9	M30	1767
W13	210 m6	350	221	50 h9	M30	2267
W14	230 m6	410	241	50 h9	M36	2622
W15	230 m6	410	241	50 h9	M36	3051
W16	240 m6	410	252	56 h9	M36	3326

Hollow Output Shaft							
2 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W01	75 H8	173	230	79.9	20 JS9	181	184
W02	85 H8	176	210	90.4	22 JS9	181	207.1
W03	95 H8	190	224	100.4	25 JS9	197	330
W04	105 H8	194	236	111.4	28 JS9	201	320
W05	115 H8	222	254	122.4	32 JS9	265	436
W06	125 H8	224	268	132.4	32 JS9	265	488
W07	135 H8	256	279	143.4	36 JS9	305	753
W08	150 H8	256	308	158.4	36 JS9	305	867
W09	165 H8	292	334	174.4	40 JS9	345	1039
W10	165 H8	292	334	174.4	40 JS9	345	1122
W11	180 H8	319	386	190.4	45 JS9	370	1469
W12	190 H8	319	386	200.4	45 JS9	370	1577
W13	210 H8	352	432	221.4	50 JS9	400	2064
W14	210 H8	352	466	221.4	50 JS9	400	2229
W15	230 H8	400	470	241.4	50 JS9	460	2626
W16	240 H8	400	504	252.4	56 JS9	460	2881

Output Shaft Shrink Disc							
2 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W01	81 H9	80 H7	230	261	173	268	186
W02	91 H9	90 H7	240	264	176	272	208
W03	101 H9	100 H7	268	286	190	294	333.5
W04	111 H9	110 H7	280	296	194	305	322
W05	121 H9	120 H7	285	328	222	370	439
W06	131 H9	130 H7	316	336	224	375	493
W07	141 H9	140 H7	340	364	256	415	761
W08	151 H9	150 H7	370	364	256	415	878
W09	166 H9	165 H7	390	400	292	450	1072
W10	166 H9	165 H7	390	400	292	450	1156
W11	181 H9	180 H7	456	451	319	500	1495
W12	191 H9	190 H7	456	451	319	500	1604
W13	211 H9	210 H7	520	498	352	550	2095
W14	211 H9	210 H7	560	498	352	550	2260
W15	231 H9	230 H7	564	570	400	630	2663
W16	241 H9	240 H7	600	570	400	630	2915

9.2.2 Parallel Shafts, 3 Stages



The dimensions of the hatched areas X1, X2, and X3 are suggestions for designing the gearbox mounting base.

DIMENSIONS AND WEIGHT

3 Stage	A	B	C	F	G	H	J4	J5	J6	P	Q	Ø S3 (4x)	V1	X1	X2	X3
W01	666	190	376	380	260	190	160	446	315	343	235	24	47	120	445	240
W02	725	215	510	380	260	190	185	480	315	346	235	24	47	130	480	260
W03	778	215	442	450	300	225	184	532	380	400	255	28	53	150	510	315
W04	852	250	481	450	300	225	219	571	380	404	255	28	53	155	555	320
W05	918	250	518	530	360	265	210	623	445	432	315	35	67	165	595	330
W06	1009	295	564	530	360	265	255	669	445	475	315	35	67	170	640	340
W07	1145	355	612	630	425	315	303	737	525	506	350	42	81	190	700	370
W08	1199	355	666	630	425	315	303	791	525	556	350	42	81	200	760	400
W09	1258	370	714	670	475	335	318	832	565	592	405	42	81	210	820	430
W10	1290	370	746	670	475	335	318	864	565	592	405	42	81	210	850	430
W11	1417	420	813	750	515	375	360	934	630	612	425	48	91	240	920	480
W12	1452	420	848	750	515	375	360	969	630	662	425	48	91	240	960	480
W13	1604	465	933	850	570	425	403	1072	725	702	455	48	105	270	1060	540
W14	1644	465	973	850	570	425	403	1111	725	762	455	48	105	290	1100	580
W15	1718	495	992	900	630	450	425	1146	760	810	485	56	105	290	1120	580
W16	1758	495	1032	900	630	450	425	1186	760	810	485	56	105	310	1160	620

Input Shaft					
3 Stage	**Ø DE**	**LE**	**T1**	**U1**	**DIN 332 DS. M..**
W01	32 k6	80	34.8	10 h9	M12
W02	32 k6	80	34.8	10 h9	M12
W03	38 k6	80	41	10 h9	M12
W04	38 k6	80	41	10 h9	M12
W05	45 k6	110	48.5	14 h9	M16
W06	45 k6	110	48.5	14 h9	M16
W07	50 k6	110	53.5	14 h9	M16
W08	50 k6	110	53.5	14 h9	M16
W09	60 m6	140	64	18 h9	M20
W10	60 m6	140	64	18 h9	M20
W11	65 m6	140	69	18 h9	M20
W12	65 m6	140	69	18 h9	M20
W13	75 m6	140	79.5	20 h9	M20
W14	75 m6	140	79.5	20 h9	M20
W15	75 m6	140	79.5	20 h9	M20
W16	75 m6	140	79.5	20 h9	M20

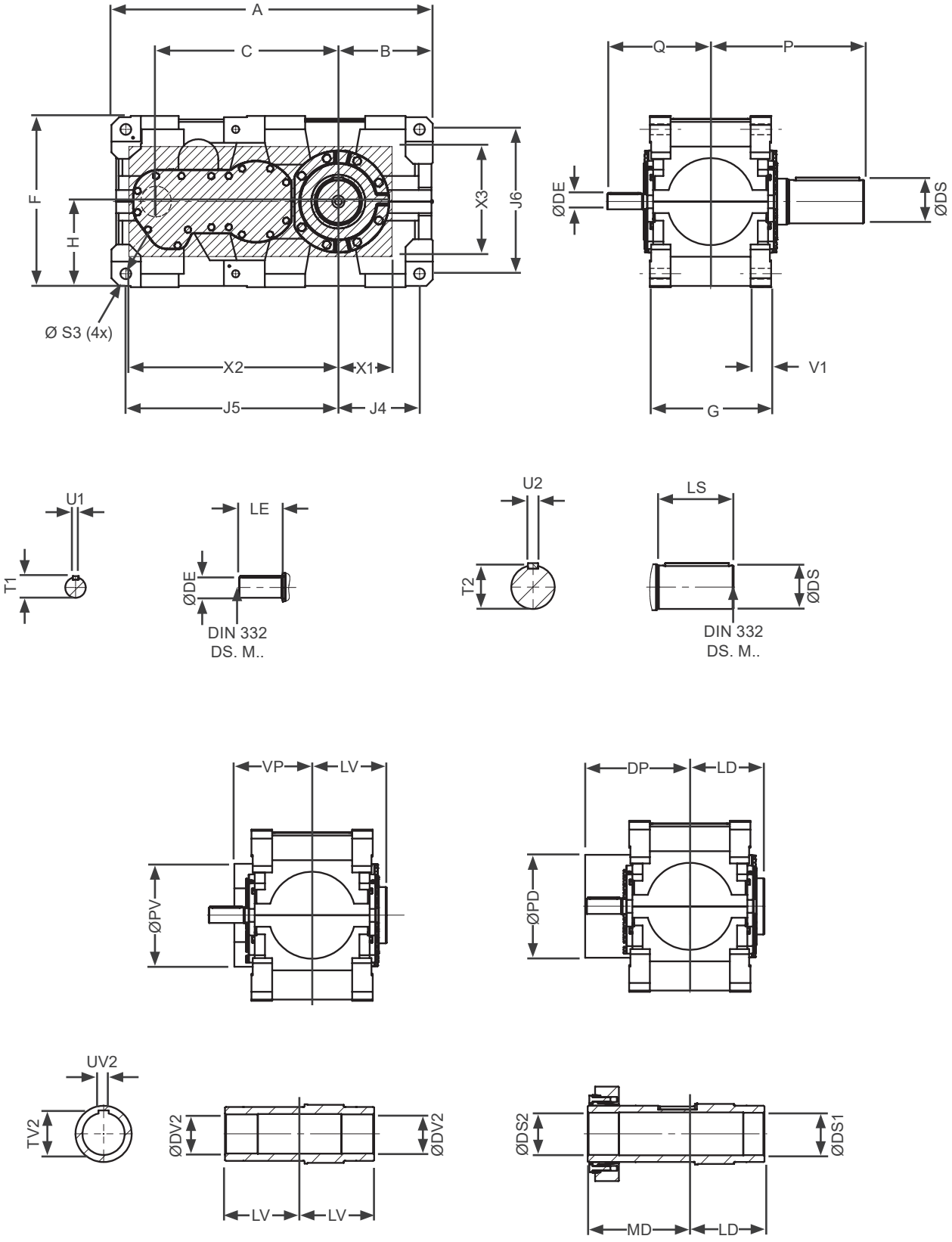
Solid Output Shaft						
3 Stage	**Ø DS**	**LS**	**T2**	**U2**	**DIN 332 DS. M..**	**kg**
W01	80 m6	170	85	22 h9	M20	215.7
W02	90 m6	170	95	25 h9	M24	245.9
W03	100 m6	210	106	28 h9	M24	334
W04	110 m6	210	116	28 h9	M24	398.9
W05	120 m6	210	127	32 h9	M24	517
W06	130 m6	250	137	32 h9	M24	585
W07	140 m6	250	148	36 h9	M30	891
W08	160 m6	300	169	40 h9	M30	1000
W09	170 m6	300	179	40 h9	M30	1275
W10	170 m6	300	179	40 h9	M30	1355

Solid Output Shaft						
3 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W11	180 m6	300	190	45 h9	M30	1825
W12	190 m6	350	200	45 h9	M30	1936
W13	210 m6	350	221	50 h9	M30	2451
W14	230 m6	410	241	50 h9	M36	2828
W15	230 m6	410	241	50 h9	M36	3300
W16	240 m6	410	252	56 h9	M36	3565

Hollow Output Shaft							
3 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W01	75 H8	173	230	79.9	20 JS9	181	202
W02	85 H8	176	210	90.4	22 JS9	181	226.7
W03	95 H8	190	224	100.4	25 JS9	197	304.7
W04	105 H8	194	236	111.4	28 JS9	201	341.7
W05	115 H8	222	254	122.4	32 JS9	265	468
W06	125 H8	224	268	132.4	32 JS9	265	527
W07	135 H8	256	278.6	143.4	36 JS9	305	810
W08	150 H8	256	308	158.4	36 JS9	305	928
W09	165 H8	292	334	174.4	40 JS9	345	1153
W10	165 H8	292	334	174.4	40 JS9	345	1230
W11	180 H8	319	386	190.4	45 JS9	370	1618
W12	190 H8	319	386	200.4	45 JS9	370	1726
W13	210 H8	352	432	221.4	50 JS9	400	2224
W14	210 H8	352	466	221.4	50 JS9	400	2411
W15	230 H8	400	470	241.4	50 JS9	460	2827
W16	240 H8	400	504	252.4	56 JS9	460	3072

Output Shaft Shrink Disc							
3 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W01	81 H9	80 H7	230	261	173	268	204.1
W02	91 H9	90 H7	240	264	176	272	227.6
W03	101 H9	100 H7	268	286	190	294	307.8
W04	111 H9	110 H7	280	296	194	305	344
W05	121 H9	120 H7	285	328	222	370	471
W06	131 H9	130 H7	316	336	224	375	532
W07	141 H9	140 H7	340	364	256	415	818
W08	151 H9	150 H7	370	364	256	415	939
W09	166 H9	165 H7	390	400	292	450	1186
W10	166 H9	165 H7	390	400	292	450	1264
W11	181 H9	180 H7	456	451	319	500	1644
W12	191 H9	190 H7	456	451	319	500	1753
W13	211 H9	210 H7	520	498	352	550	2255
W14	211 H9	210 H7	560	498	352	550	2442
W15	231 H9	230 H7	564	570	400	630	2864
W16	241 H9	240 H7	600	570	400	630	3106

9.2.3 Parallel Shafts, 4 Stages



The dimensions of the hatched areas X1, X2, and X3 are suggestions for designing the gearbox mounting base.

4 Stage	A	B	C	F	G	H	J4	J5	J6	P	Q	Ø S3 (4x)	V1	X1	X2	X3
W03	778	215	442	450	300	225	184	532	380	400	235	28	53	155	515	315
W04	852	250	481	450	300	225	219	571	380	404	235	28	53	150	550	310
W05	918	250	518	530	360	265	210	623	445	432	285	35	67	165	595	330
W06	1009	295	564	530	360	265	255	669	445	475	285	35	67	170	640	340
W07	1145	355	612	630	425	315	303	737	525	506	320	42	81	190	700	370
W08	1199	355	666	630	425	315	303	791	525	556	320	42	81	200	760	400
W09	1258	370	714	670	475	335	318	832	565	592	375	42	81	210	820	430
W10	1290	370	746	670	475	335	318	864	565	592	375	42	81	210	850	430
W11	1417	420	813	750	515	375	360	934	630	612	395	48	91	240	920	480
W12	1452	420	848	750	515	375	360	969	630	662	395	48	91	240	960	480
W13	1604	465	933	850	570	425	403	1072	725	702	425	48	105	270	1060	540
W14	1644	465	973	850	570	425	403	1111	725	762	425	48	105	290	1100	580
W15	1718	495	992	900	630	450	425	1146	760	810	485	56	105	290	1120	580
W16	1758	495	1032	900	630	450	425	1186	760	810	485	56	105	310	1160	620

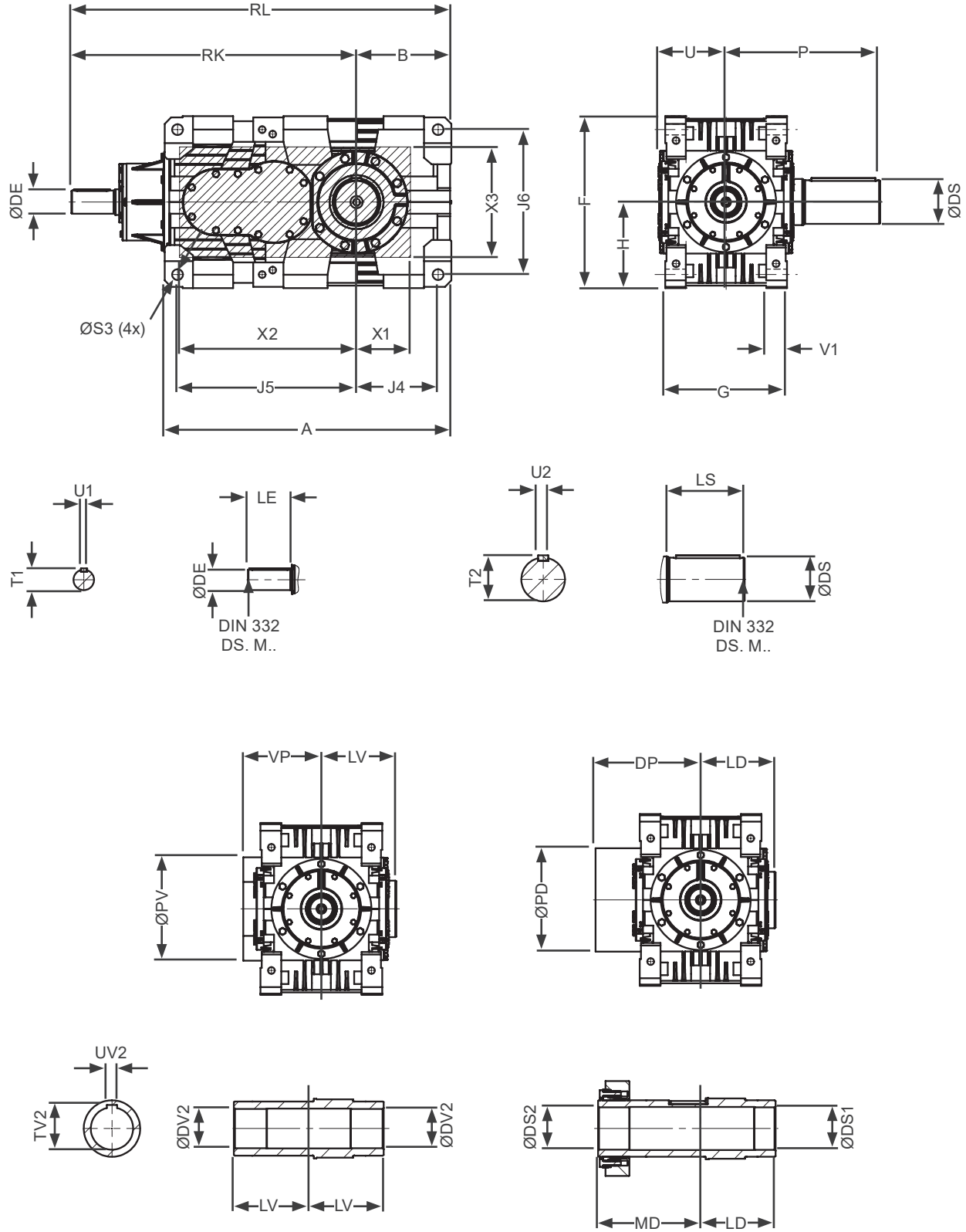
Input Shaft					
4 Stage	Ø DE	LE	T1	U1	DIN 332 DS. M..
W03	25 k6	60	28	8 h9	M10
W04	25 k6	60	28	8 h9	M10
W05	30 k6	80	33	8 h9	M10
W06	30 k6	80	33	8 h9	M10
W07	35 k6	80	38	10 h9	M12
W08	35 k6	80	38	10 h9	M12
W09	40 k6	110	43	12 h9	M16
W10	40 k6	110	43	12 h9	M16
W11	45 k6	110	48.5	14 h9	M16
W12	45 k6	110	48.5	14 h9	M16
W13	55 m6	110	59	16 h9	M20
W14	55 m6	110	59	16 h9	M20
W15	60 m6	140	64	18 h9	M20
W16	60 m6	140	64	18 h9	M20

Solid Output Shaft						
4 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W03	100 m6	210	106	28 h9	M24	339.5
W04	110 m6	210	116	28 h9	M24	381.6
W05	120 m6	210	127	32 h9	M24	520
W06	130 m6	250	137	32 h9	M24	594
W07	140 m6	250	148	36 h9	M30	906
W08	160 m6	300	169	40 h9	M30	1015
W09	170 m6	300	179	40 h9	M30	1288
W10	170 m6	300	179	40 h9	M30	1368
W11	180 m6	300	190	45 h9	M30	1827
W12	190 m6	350	200	45 h9	M30	1938
W13	210 m6	350	221	50 h9	M30	2471
W14	230 m6	410	241	50 h9	M36	2848
W15	230 m6	410	241	50 h9	M36	3293
W16	240 m6	410	252	56 h9	M36	3558

Hollow Output Shaft							
4 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W03	95 H8	190	224	100.4	25 JS9	197	310
W04	105 H8	194	236	111.4	28 JS9	201	345.1
W05	115 H8	222	254	122.4	32 JS9	265	471
W06	125 H8	224	268	132.4	32 JS9	265	530
W07	135 H8	256	278.6	143.4	36 JS9	305	819
W08	150 H8	256	308	158.4	36 JS9	305	937
W09	165 H8	292	334	174.4	40 JS9	345	1166
W10	165 H8	292	334	174.4	40 JS9	345	1243
W11	180 H8	319	386	190.4	45 JS9	370	1640
W12	190 H8	319	386	200.4	45 JS9	370	1748
W13	210 H8	352	432	221.4	50 JS9	400	2268
W14	210 H8	352	466	221.4	50 JS9	400	2455
W15	230 H8	400	470	241.4	50 JS9	460	2868
W16	240 H8	400	504	252.4	56 JS9	460	3113

Output Shaft Shrink Disc							
4 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W03	101 H9	100 H7	268	286	190	294	313
W04	111 H9	110 H7	280	296	194	305	347.3
W05	121 H9	120 H7	285	328	222	370	474
W06	131 H9	130 H7	316	336	224	375	535
W07	141 H9	140 H7	340	364	256	415	827
W08	151 H9	150 H7	370	364	256	415	948
W09	166 H9	165 H7	390	400	292	450	1199
W10	166 H9	165 H7	390	400	292	450	1277
W11	181 H9	180 H7	456	451	319	500	1666
W12	191 H9	190 H7	456	451	319	500	1775
W13	211 H9	210 H7	520	498	352	550	2299
W14	211 H9	210 H7	560	498	352	550	2486
W15	231 H9	230 H7	564	570	400	630	2905
W16	241 H9	240 H7	600	570	400	630	3147

9.2.4 Right Angle Shafts K, 2 Stages



The dimensions of the hatched areas X1, X2, and X3 are suggestions for designing the gearbox mounting base.

DIMENSIONS AND WEIGHT

2 Stage	A	B	F	G	H	J4	J5	J6	P	Ø S3 (4x)	U	V1	X1	X2	X3	RK	RL
W01	606	190	380	260	190	160	386	315	343	24	147	47	125	365	250	656	846
W02	665	215	380	260	190	185	420	315	346	24	147	47	130	400	260	690	905
W03	693	215	450	300	225	184	447	380	400	28	167	53	145	435	305	726	941
W04	767	250	450	300	225	219	486	380	404	28	167	53	160	470	310	765	1015
W05	808	250	530	360	265	210	518	445	432	35	191	67	165	500	330	842	1092
W06	899	295	530	360	265	255	819	445	475	35	191	67	170	550	340	888	1183
W07	1015	355	630	425	315	303	612	525	506	42	226	81	190	590	370	984	1339
W08	1069	355	630	425	315	303	666	525	556	42	226	81	200	640	400	1038	1393
W09	1118	370	670	475	335	318	698	565	592	42	261	81	210	690	430	1102	1472
W10	1150	370	670	475	335	318	730	565	592	42	261	81	210	720	430	1134	1504
W11	1260	420	750	515	375	360	780	630	612	48	281	91	240	770	480	1275	1695
W12	1295	420	750	515	375	360	815	630	662	48	281	91	240	810	480	1310	1730
W13	1422	465	850	570	425	403	897	725	702	48	317	105	270	880	540	1405	1870
W14	1463	465	850	570	425	403	938	725	762	48	317	105	290	930	580	1446	1911
W15	1531	495	900	630	450	425	966	760	810	56	357	105	290	960	580	1570	2065
W16	1571	495	900	630	450	425	1006	760	810	56	357	105	310	1000	620	1610	2105

Input Shaft					
2 Stage	Ø DE	LE	T1	U1	DIN 332 DS. M..
W01	45 k6	110	48.5	14 h9	M16
W02	45 k6	110	48.5	14 h9	M16
W03	55 m6	110	59	16 h9	M20
W04	55 m6	110	59	16 h9	M20
W05	70 m6	140	74.5	20 h9	M20
W06	70 m6	140	74.5	20 h9	M20
W07	80 m6	170	85	22 h9	M20
W08	80 m6	170	85	22 h9	M20
W09	90 m6	170	95	25 h9	M24
W10	90 m6	170	95	25 h9	M24
W11	100 m6	210	106	28 h9	M24
W12	100 m6	210	106	28 h9	M24
W13	120 m6	210	131	32 h9	M24
W14	120 m6	210	131	32 h9	M24
W15	130 m6	250	141	32 h9	M24
W16	130 m6	250	141	32 h9	M24

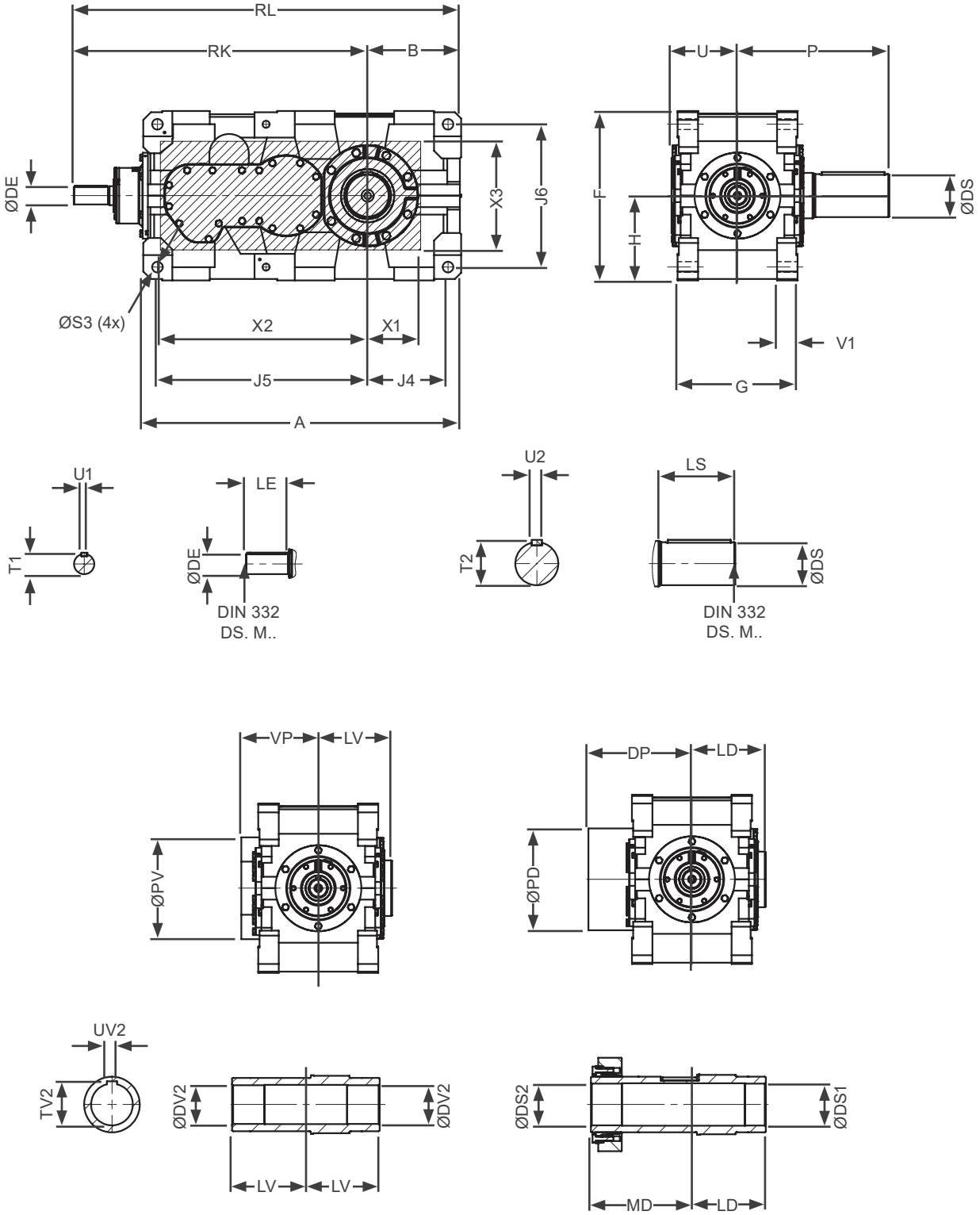
Solid Output Shaft						
2 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W01	80 m6	170	85	22 h9	M20	217.5
W02	90 m6	170	95	25 h9	M24	245.9
W03	100 m6	210	106	28 h9	M24	383
W04	110 m6	210	116	28 h9	M24	378.6
W05	120 m6	210	127	32 h9	M24	543
W06	130 m6	250	137	32 h9	M24	610
W07	140 m6	250	148	36 h9	M30	901
W08	160 m6	300	169	40 h9	M30	1006
W09	170 m6	300	179	40 h9	M30	1256
W10	170 m6	300	179	40 h9	M30	1342

Solid Output Shaft						
2 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W11	180 m6	300	190	45 h9	M30	1771
W12	190 m6	350	200	45 h9	M30	1882
W13	210 m6	350	221	50 h9	M30	2456
W14	230 m6	410	241	50 h9	M36	2811
W15	230 m6	410	241	50 h9	M36	3273
W16	240 m6	410	252	56 h9	M36	3548

Hollow Output Shaft							
2 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W01	75 H8	173	230	79.9	20 JS9	181	203.7
W02	85 H8	176	210	90.4	22 JS9	181	226.7
W03	95 H8	190	224	100.4	25 JS9	197	353.4
W04	105 H8	194	236	111.4	28 JS9	201	342
W05	115 H8	222	254	122.4	32 JS9	265	494
W06	125 H8	224	268	132.4	32 JS9	265	546
W07	135 H8	256	278.6	143.4	36 JS9	305	814
W08	150 H8	256	308	158.4	36 JS9	305	928
W09	165 H8	292	334	174.4	40 JS9	345	1134
W10	165 H8	292	334	174.4	40 JS9	345	1217
W11	180 H8	319	386	190.4	45 JS9	370	1584
W12	190 H8	319	386	200.4	45 JS9	370	1692
W13	210 H8	352	432	221.4	50 JS9	400	2253
W14	210 H8	352	466	221.4	50 JS9	400	2418
W15	230 H8	400	470	241.4	50 JS9	460	2848
W16	240 H8	400	504	252.4	56 JS9	460	3103

Output Shaft Shrink Disc							
2 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W01	81 H9	80 H7	230	261	173	268	206
W02	91 H9	90 H7	240	264	176	272	227.6
W03	101 H9	100 H7	268	286	190	294	356.5
W04	111 H9	110 H7	280	296	194	305	345.3
W05	121 H9	120 H7	285	328	222	370	497
W06	131 H9	130 H7	320	336	224	375	551
W07	141 H9	140 H7	340	364	256	415	822
W08	151 H9	150 H7	370	364	256	415	939
W09	166 H9	165 H7	390	400	292	450	1167
W10	166 H9	165 H7	390	400	292	450	1251
W11	181 H9	180 H7	456	451	319	500	1610
W12	191 H9	190 H7	456	451	319	500	1719
W13	211 H9	210 H7	520	498	352	550	2284
W14	211 H9	210 H7	560	498	352	550	2449
W15	231 H9	230 H7	564	570	400	630	2885
W16	241 H9	240 H7	600	570	400	630	3137

9.2.5 Right Angle Shafts K, 3 Stages



The dimensions of the hatched areas X1, X2, and X3 are suggestions for designing the gearbox mounting base.

3 Stage	A	B	F	G	H	J4	J5	J6	P	Ø S3 (4x)	U	V1	X1	X2	X3	RK	RL
W01	666	190	380	260	190	160	370	315	343	24	147	47	120	445	240	636	826
W02	725	215	380	260	190	185	480	315	346	24	147	47	130	480	260	670	885
W03	778	215	450	300	225	184	532	380	400	28	167	53	150	510	300	738	953
W04	852	250	450	300	225	219	571	380	404	28	167	53	155	555	310	777	1027
W05	913	250	530	360	265	210	623	445	432	35	191	67	165	595	330	888	1138
W06	1004	295	530	360	265	255	669	445	475	35	191	67	170	640	340	934	1229
W07	1140	355	630	425	315	303	737	525	506	42	226	81	190	700	370	1000	1355
W08	1194	355	630	425	315	303	791	525	556	42	226	81	200	760	400	1054	1409
W09	1253	370	670	475	335	318	832	565	592	42	261	81	210	820	430	1158	1528
W10	1285	370	670	475	335	318	864	565	592	42	261	81	210	850	430	1190	1560
W11	1412	420	750	515	375	360	934	630	612	48	281	91	240	920	480	1327	1747
W12	1447	420	750	515	375	360	969	630	662	48	281	91	240	960	480	1362	1782
W13	1597	465	850	570	425	403	1072	725	702	48	317	105	270	1060	540	1497	1962
W14	1637	465	850	570	425	403	1111	725	762	48	317	105	290	1100	580	1537	2002
W15	1711	495	900	630	450	425	1146	760	810	56	357	105	290	1120	580	1556	2051
W16	1751	495	900	630	450	425	1186	760	810	56	357	105	310	1160	620	1596	2091

Input Shaft					
3 Stage	Ø DE	LE	T1	U1	DIN 332 DS. M..
W01	32 k6	80	35	10 h9	M12
W02	32 k6	80	35	10 h9	M12
W03	38 k6	80	41	10 h9	M12
W04	38 k6	80	41	10 h9	M12
W05	45 k6	110	48.5	14 h9	M16
W06	45 k6	110	48.5	14 h9	M16
W07	55 m6	110	59	16 h9	M20
W08	55 m6	110	59	16 h9	M20
W09	70 m6	140	74.5	20 h9	M20
W10	70 m6	140	74.5	20 h9	M20
W11	80 m6	170	85	22 h9	M20
W12	80 m6	170	85	22 h9	M20
W13	90 m6	170	95	25 h9	M24
W14	90 m6	170	95	25 h9	M24
W15	90 m6	170	95	25 h9	M24
W16	90 m6	170	95	25 h9	M24

Solid Output Shaft						
3 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W01	80 m6	170	85	22 h9	M20	224.2
W02	90 m6	170	95	25 h9	M24	254.1
W03	100 m6	210	106	28 h9	M24	351.8
W04	110 m6	210	116	28 h9	M24	395.6
W05	120 m6	210	127	32 h9	M24	538
W06	130 m6	250	137	32 h9	M24	612
W07	140 m6	250	148	36 h9	M30	927
W08	160 m6	300	169	40 h9	M30	1036
W09	170 m6	300	179	40 h9	M30	1323
W10	170 m6	300	179	40 h9	M30	1403
W11	180 m6	300	190	45 h9	M30	1884

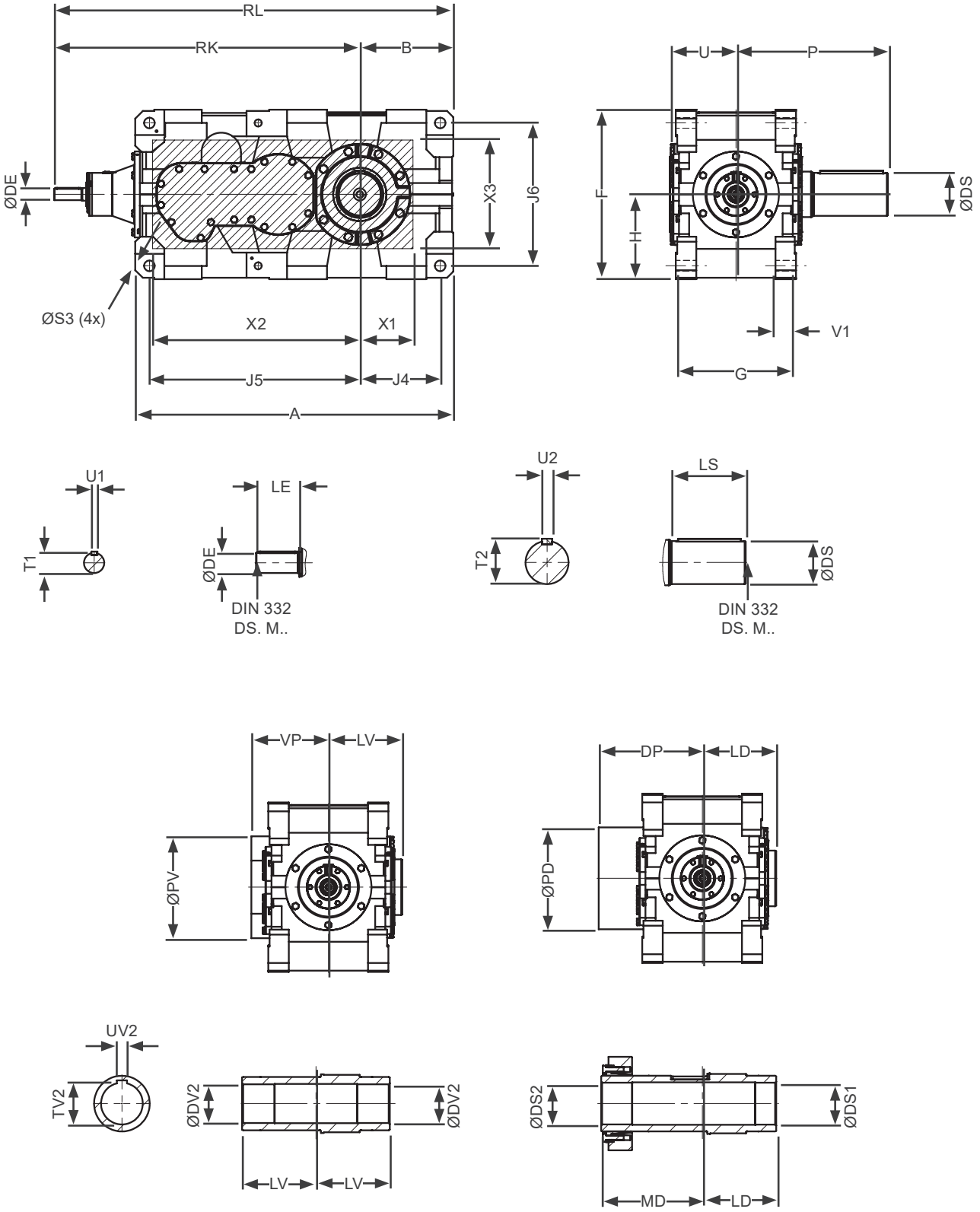
DIMENSIONS AND WEIGHT

Solid Output Shaft						
3 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W12	190 m6	350	200	45 h9	M30	1995
W13	210 m6	350	221	50 h9	M30	2534
W14	230 m6	410	241	50 h9	M36	2911
W15	230 m6	410	241	50 h9	M36	3336
W16	240 m6	410	252	56 h9	M36	3600

Hollow Output Shaft							
3 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W01	75 H8	173	230	79.9	20 JS9	181	210.5
W02	85 H8	176	210	90.4	22 JS9	181	234.9
W03	95 H8	190	224	100.4	25 JS9	197	319.6
W04	105 H8	194	236	111.4	28 JS9	201	359.1
W05	115 H8	222	254	122.4	32 JS9	265	489
W06	125 H8	224	268	132.4	32 JS9	265	548
W07	135 H8	256	278.6	143.4	36 JS9	305	840
W08	150 H8	256	308	158.4	36 JS9	305	958
W09	165 H8	292	334	174.4	40 JS9	345	1201
W10	165 H8	292	334	174.4	40 JS9	345	1278
W11	180 H8	319	386	190.4	45 JS9	370	1697
W12	190 H8	319	386	200.4	45 JS9	370	1805
W13	210 H8	352	432	221.4	50 JS9	400	2331
W14	210 H8	352	466	221.4	50 JS9	400	2518
W15	230 H8	400	470	241.4	50 JS9	460	2911
W16	240 H8	400	504	252.4	56 JS9	460	3155

Output Shaft Shrink Disc							
3 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W01	81 H9	80 H7	230	261	173	268	215
W02	91 H9	90 H7	240	264	176	272	235.8
W03	101 H9	100 H7	268	286	190	294	322.6
W04	111 H9	110 H7	280	296	194	305	361.3
W05	121 H9	120 H7	285	328	222	370	492
W06	131 H9	130 H7	316	336	224	375	553
W07	141 H9	140 H7	340	364	256	415	848
W08	151 H9	150 H7	370	364	256	415	969
W09	166 H9	165 H7	390	400	292	450	1234
W10	166 H9	165 H7	390	400	292	450	1312
W11	181 H9	180 H7	456	451	319	500	1723
W12	191 H9	190 H7	456	451	319	500	1832
W13	211 H9	210 H7	520	498	352	550	2362
W14	211 H9	210 H7	560	498	352	550	2549
W15	231 H9	230 H7	564	570	400	630	2948
W16	241 H9	240 H7	600	570	400	630	3189

9.2.6 Right Angle Shafts K, 4 Stages



The dimensions of the hatched areas X1, X2, and X3 are suggestions for designing the gearbox mounting base.

DIMENSIONS AND WEIGHT

4 Stage	A	B	F	G	H	J4	J5	J6	P	Ø S3 (4x)	U	V1	X1	X2	X3	RK	RL
W03	778	215	450	300	225	184	532	380	400	28	167	53	155	515	300	732	947
W04	852	250	450	300	225	219	475	380	404	28	167	53	150	550	310	771	1021
W05	913	250	530	360	265	210	623	445	432	35	191	67	165	595	330	868	1118
W06	1004	295	530	360	265	255	669	445	475	35	191	67	170	640	340	914	1209
W07	1140	355	630	425	315	303	737	525	506	42	226	81	190	700	370	1012	1367
W08	1194	355	630	425	315	303	791	525	556	42	226	81	200	760	400	1066	1421
W09	1253	370	670	475	335	318	832	565	592	42	261	81	210	820	430	1204	1574
W10	1285	370	670	475	335	318	864	565	592	42	261	81	210	850	430	1236	1606
W11	1412	420	750	515	375	360	934	630	612	48	281	91	240	920	480	1343	1763
W12	1447	420	750	515	375	360	969	630	662	48	281	91	240	960	480	1378	1798
W13	1597	465	850	570	425	403	1072	725	702	48	317	105	270	1060	540	1543	2008
W14	1637	465	850	570	425	403	1111	725	762	48	317	105	290	1100	580	1583	2048
W15	1711	495	900	630	450	425	1146	760	810	56	357	105	290	1120	580	1602	2097
W16	1751	495	900	630	450	425	1186	760	810	56	357	105	310	1160	620	1642	2137

Input Shaft					
4 Stage	Ø DE	LE	T1	U1	DIN 332 DS. M..
W03	28 k6	60	31	8 h9	M10
W04	28 k6	60	31	8 h9	M10
W05	32 k6	80	35	10 h9	M12
W06	32 k6	80	35	10 h9	M12
W07	38 k6	80	41	10 h9	M12
W08	38 k6	80	41	10 h9	M12
W09	45 k6	110	48.5	14 h9	M16
W10	45 k6	110	48.5	14 h9	M16
W11	55 m6	110	59	16 h9	M20
W12	55 m6	110	59	16 h9	M20
W13	70 m6	140	74.5	20 h9	M20
W14	70 m6	140	74.5	20 h9	M20
W15	70 m6	140	74.5	20 h9	M20
W16	70 m6	140	74.5	20 h9	M20

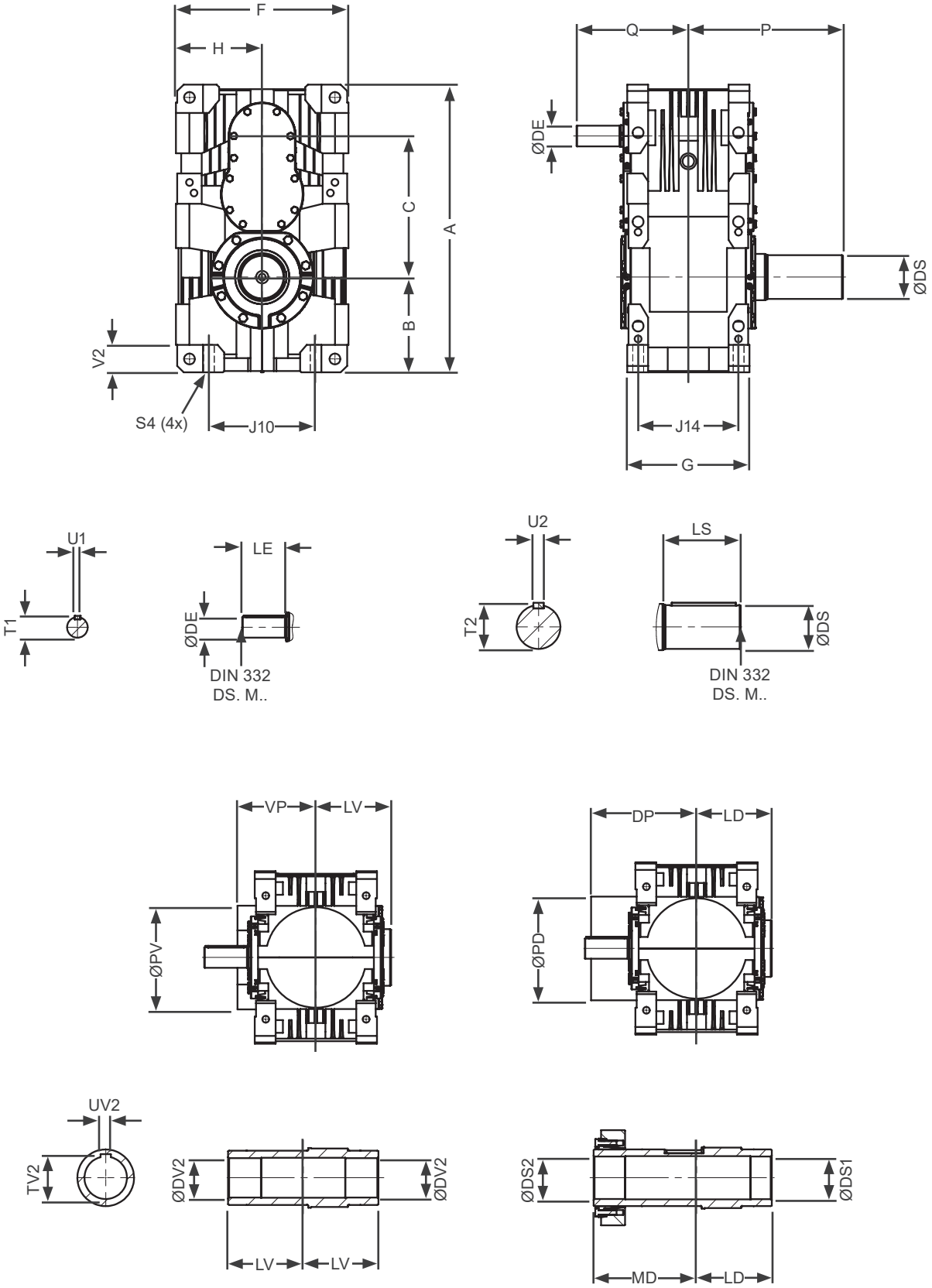
Solid Output Shaft						
4 Estag.	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W03	100 m6	210	106	28 h9	M24	333.6
W04	110 m6	210	116	28 h9	M24	371.1
W05	120 m6	210	127	32 h9	M24	532
W06	130 m6	250	137	32 h9	M24	606
W07	140 m6	250	148	36 h9	M30	925
W08	160 m6	300	169	40 h9	M30	1034
W09	170 m6	300	179	40 h9	M30	1318
W10	170 m6	300	179	40 h9	M30	1398
W11	180 m6	300	190	45 h9	M30	1873
W12	190 m6	350	200	45 h9	M30	1984
W13	210 m6	350	221	50 h9	M30	2537
W14	230 m6	410	241	50 h9	M36	2914
W15	230 m6	410	241	50 h9	M36	3350
W16	240 m6	410	252	56 h9	M36	3614

Hollow Output Shaft							
4 Stage	**Ø DV2**	**LV**	**Ø PV**	**TV2**	**UV2**	**VP**	**kg**
W03	95 H8	190	224	100.4	25 JS9	197	301.7
W04	105 H8	194	236	111.4	28 JS9	201	334.5
W05	115 H8	222	254	122.4	32 JS9	265	483
W06	125 H8	224	268	132.4	32 JS9	265	542
W07	135 H8	256	278.6	143.4	36 JS9	305	838
W08	150 H8	256	308	158.4	36 JS9	305	956
W09	165 H8	292	334	174.4	40 JS9	345	1196
W10	165 H8	292	334	174.4	40 JS9	345	1273
W11	180 H8	319	386	190.4	45 JS9	370	1686
W12	190 H8	319	386	200.4	45 JS9	370	1794
W13	210 H8	352	432	221.4	50 JS9	400	2334
W14	210 H8	352	466	221.4	50 JS9	400	2521
W15	230 H8	400	470	241.4	50 JS9	460	2925
W16	240 H8	400	504	252.4	56 JS9	460	3169

Output Shaft Shrink Disc							
4 Stage	**Ø DS1**	**Ø DS2**	**Ø PD**	**MD**	**LD**	**DP**	**kg**
W03	101 H9	100 H7	268	286	190	294	304.8
W04	111 H9	110 H7	280	296	194	305	336.8
W05	121 H9	120 H7	285	328	222	370	486
W06	131 H9	130 H7	316	336	224	375	547
W07	141 H9	140 H7	340	364	256	415	846
W08	151 H9	150 H7	370	364	256	415	967
W09	166 H9	165 H7	390	400	292	450	1229
W10	166 H9	165 H7	390	400	292	450	1307
W11	181 H9	180 H7	456	451	319	500	1712
W12	191 H9	190 H7	456	451	319	500	1821
W13	211 H9	210 H7	520	498	352	550	2365
W14	211 H9	210 H7	560	498	352	550	2552
W15	231 H9	230 H7	564	570	400	630	2962
W16	241 H9	240 H7	600	570	400	630	3203

9.3 FOOT MOUNT (M4)

9.3.1 Parallel Shafts, 2 Stages



2 Stage	A	B	C	F	G	H	J10	J14	P	Q	S4 (4x)	V2
W01	606	190	286	380	260	190	250	210	343	265	Ø24	62
W02	665	215	320	380	260	190	250	210	346	265	Ø24	62
W03	693	215	338	450	300	225	300	245	400	285	Ø28	68
W04	767	250	377	450	300	225	300	245	404	285	Ø28	68
W05	808	250	398	530	360	265	335	290	432	345	Ø35	86
W06	899	295	444	530	360	265	335	290	475	345	Ø35	86
W07	1015	355	470	630	425	315	400	340	506	380	Ø42	105
W08	1069	355	524	630	425	315	400	340	556	380	Ø42	105
W09	1118	370	548	670	475	335	415	390	592	440	Ø42	107
W10	1150	370	580	670	475	335	415	390	592	440	Ø42	107
W11	1260	420	617	750	515	375	455	420	612	460	Ø48	128
W12	1295	420	652	750	515	375	455	420	662	460	Ø48	128
W13	1422	465	707	850	570	425	610	440	702	535	M42x63	-
W14	1463	465	748	850	570	425	610	440	762	535	M42x63	-
W15	1531	495	766	900	630	450	600	510	810	575	M48x72	-
W16	1571	495	806	900	630	450	600	510	810	575	M48x72	-

Input Shaft					
2 Stage	Ø DE	LE	T1	U1	DIN 332 DS. M..
W01	40 k6	110	43.5	12 h9	M16
W02	40 k6	110	43.5	12 h9	M16
W03	50 k6	110	53.5	14 h9	M16
W04	50 k6	110	53.5	14 h9	M16
W05	60 m6	140	64	18 h9	M20
W06	60 m6	140	64	18 h9	M20
W07	70 m6	140	74.5	20 h9	M20
W08	70 m6	140	74.5	20 h9	M20
W09	80 m6	170	85	22 h9	M20
W10	80 m6	170	85	22 h9	M20
W11	95 m6	170	100	25 h9	M24
W12	95 m6	170	100	25 h9	M24
W13	105 m6	210	111	28 h9	M24
W14	105 m6	210	111	28 h9	M24
W15	115 m6	210	122	32 h9	M24
W16	115 m6	210	122	32 h9	M24

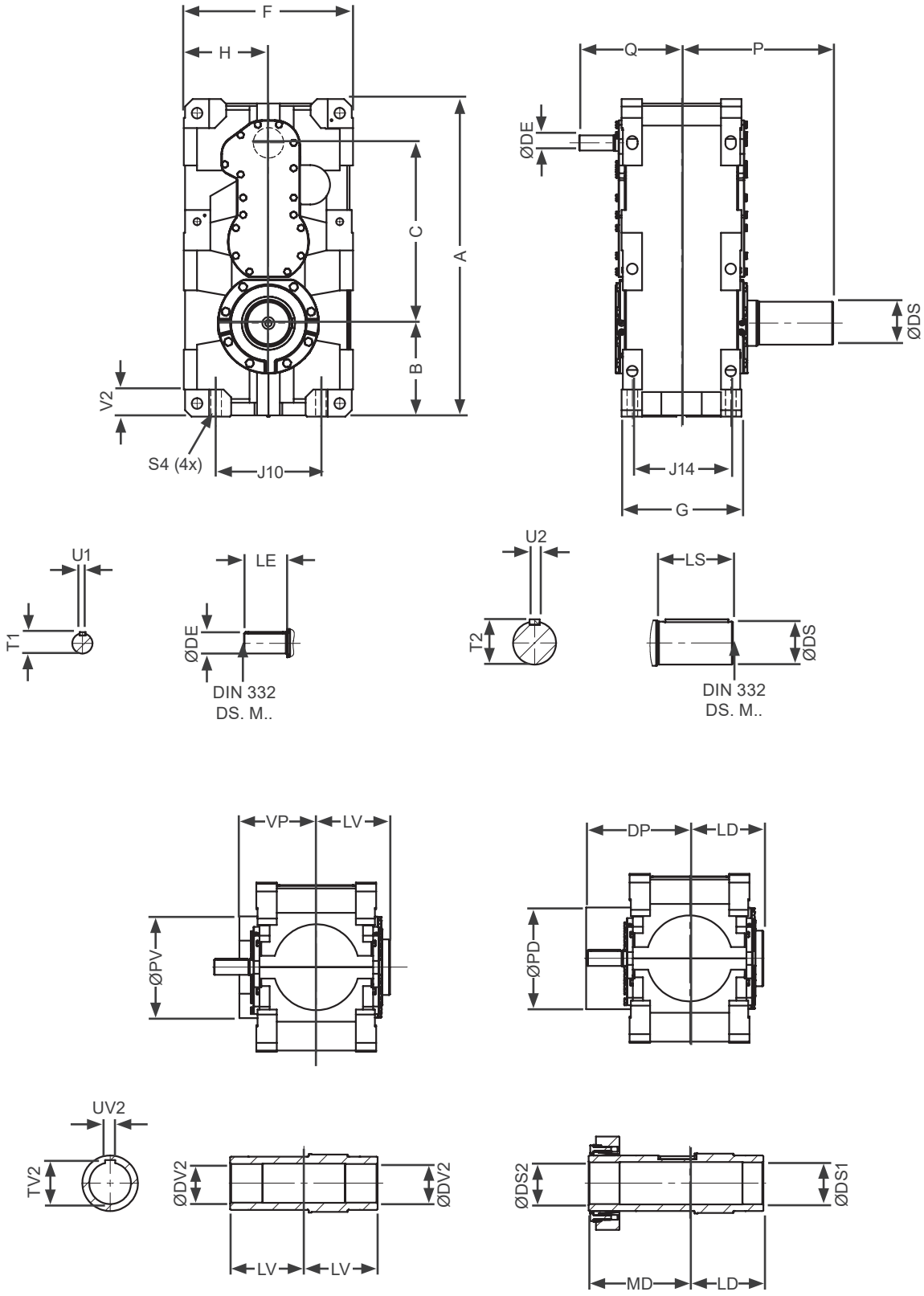
Solid Output Shaft						
2 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W01	80 m6	170	85	22 h9	M20	198
W02	90 m6	170	95	25 h9	M24	226.6
W03	100 m6	210	106	28 h9	M24	360
W04	110 m6	210	116	28 h9	M24	356
W05	120 m6	210	127	32 h9	M24	485
W06	130 m6	250	137	32 h9	M24	552
W07	140 m6	250	148	36 h9	M30	840
W08	160 m6	300	169	40 h9	M30	945
W09	170 m6	300	179	40 h9	M30	1161
W10	170 m6	300	179	40 h9	M30	1247
W11	180 m6	300	190	45 h9	M30	1656

Solid Output Shaft						
2 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W12	190 m6	350	200	45 h9	M30	1767
W13	210 m6	350	221	50 h9	M30	2267
W14	230 m6	410	241	50 h9	M36	2622
W15	230 m6	410	241	50 h9	M36	3051
W16	240 m6	410	252	56 h9	M36	3326

Hollow Output Shaft							
2 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W01	75 H8	173	230	79.9	20 JS9	181	184
W02	85 H8	176	210	90.4	22 JS9	181	207.4
W03	95 H8	190	224	100.4	25 JS9	197	330
W04	105 H8	194	236	111.4	28 JS9	201	320
W05	115 H8	222	254	122.4	32 JS9	265	436
W06	125 H8	224	268	132.4	32 JS9	265	488
W07	135 H8	256	279	143.4	36 JS9	305	753
W08	150 H8	256	308	158.4	36 JS9	305	867
W09	165 H8	292	334	174.4	40 JS9	345	1039
W10	165 H8	292	334	174.4	40 JS9	345	1122
W11	180 H8	319	386	190.4	45 JS9	370	1469
W12	190 H8	319	386	200.4	45 JS9	370	1577
W13	210 H8	352	432	221.4	50 JS9	400	2064
W14	210 H8	352	466	221.4	50 JS9	400	2229
W15	230 H8	400	470	241.4	50 JS9	460	2626
W16	240 H8	400	504	252.4	56 JS9	460	2881

Output Shaft Shrink Disc							
2 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W01	81 H9	80 H7	230	261	173	268	186
W02	91 H9	90 H7	240	264	176	272	208.3
W03	101 H9	100 H7	268	286	190	294	333
W04	111 H9	110 H7	280	296	194	305	322
W05	121 H9	120 H7	285	328	222	370	439
W06	131 H9	130 H7	316	336	224	375	493
W07	141 H9	140 H7	340	364	256	415	761
W08	151 H9	150 H7	370	364	256	415	878
W09	166 H9	165 H7	390	400	292	450	1072
W10	166 H9	165 H7	390	400	292	450	1156
W11	181 H9	180 H7	456	451	319	500	1495
W12	191 H9	190 H7	456	451	319	500	1604
W13	211 H9	210 H7	520	498	352	550	2095
W14	211 H9	210 H7	560	498	352	550	2260
W15	231 H9	230 H7	564	570	400	630	2663
W16	241 H9	240 H7	600	570	400	630	2915

9.3.2 Parallel Shafts, 3 Stages



DIMENSIONS AND WEIGHT

3 Stage	A	B	C	F	G	H	J10	J14	P	Q	S4 (4x)	V2
W01	666	190	376	380	260	190	250	210	343	235	24	62
W02	725	215	410	380	260	190	250	210	346	235	24	62
W03	778	215	442	450	300	225	300	245	400	255	28	68
W04	852	250	481	450	300	225	300	245	404	255	28	68
W05	918	250	518	530	360	265	335	290	432	315	Ø35	86
W06	1009	295	564	530	360	265	335	290	475	315	Ø35	86
W07	1145	355	612	630	425	315	400	340	506	350	Ø42	105
W08	1199	355	666	630	425	315	400	340	556	350	Ø42	105
W09	1258	370	714	670	475	335	415	390	592	405	Ø42	107
W10	1290	370	746	670	475	335	415	390	592	405	Ø42	107
W11	1417	420	813	750	515	375	455	420	612	425	Ø48	128
W12	1452	420	848	750	515	375	455	420	662	425	Ø48	128
W13	1604	465	933	850	570	425	610	440	702	455	M42x63	-
W14	1644	465	973	850	570	425	610	440	762	455	M42x63	-
W15	1718	495	992	900	630	450	600	510	810	485	M48x72	-
W16	1758	495	1032	900	630	450	600	510	810	485	M48x72	-

Input Shaft					
3 Stage	**Ø DE**	**LE**	**T1**	**U1**	**DIN 332 DS. M..**
W01	32 k6	80	34.8	10 h9	M12
W02	32 k6	80	34.8	10 h9	M12
W03	38 k6	80	41	10 h9	M12
W04	38 k6	80	41	10 h9	M12
W05	45 k6	110	48.5	14 h9	M16
W06	45 k6	110	48.5	14 h9	M16
W07	50 k6	110	53.5	14 h9	M16
W08	50 k6	110	53.5	14 h9	M16
W09	60 m6	140	64	18 h9	M20
W10	60 m6	140	64	18 h9	M20
W11	65 m6	140	69	18 h9	M20
W12	65 m6	140	69	18 h9	M20
W13	75 m6	140	79.5	20 h9	M20
W14	75 m6	140	79.5	20 h9	M20
W15	75 m6	140	79.5	20 h9	M20
W16	75 m6	140	79.5	20 h9	M20

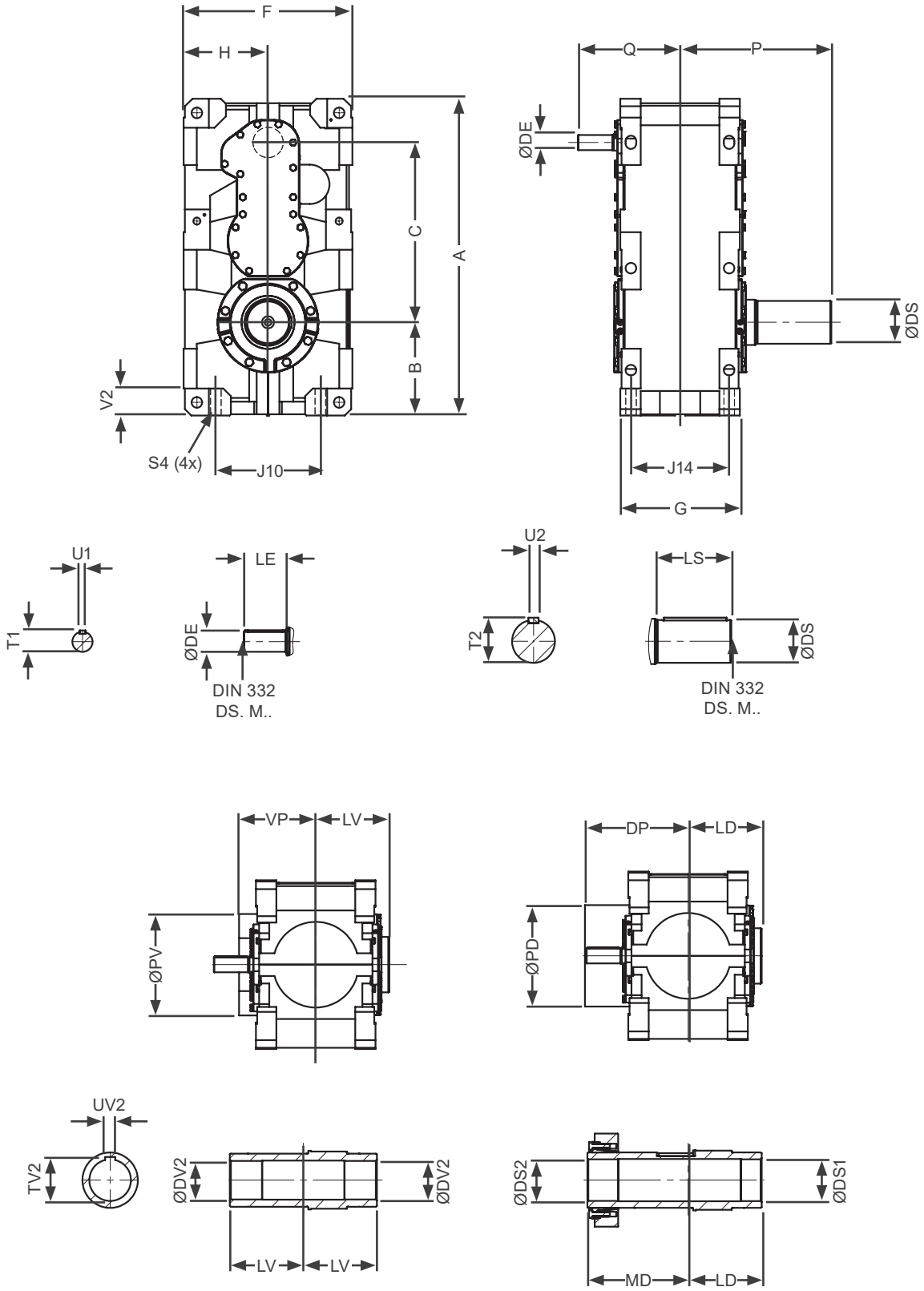
Solid Output Shaft						
3 Stage	**Ø DS**	**LS**	**T2**	**U2**	**DIN 332 DS. M..**	**kg**
W01	80 m6	170	85	22 h9	M20	216.4
W02	90 m6	170	95	25 h9	M24	246.6
W03	100 m6	210	106	28 h9	M24	334.2
W04	110 m6	210	116	28 h9	M24	375.4
W05	120 m6	210	127	32 h9	M24	517
W06	130 m6	250	137	32 h9	M24	585
W07	140 m6	250	148	36 h9	M30	891
W08	160 m6	300	169	40 h9	M30	1000
W09	170 m6	300	179	40 h9	M30	1275
W10	170 m6	300	179	40 h9	M30	1355

Solid Output Shaft						
3 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W11	180 m6	300	190	45 h9	M30	1825
W12	190 m6	350	200	45 h9	M30	1936
W13	210 m6	350	221	50 h9	M30	2451
W14	230 m6	410	241	50 h9	M36	2828
W15	230 m6	410	241	50 h9	M36	3300
W16	240 m6	410	252	56 h9	M36	3565

Hollow Output Shaft							
3 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W01	75 H8	173	230	79.9	20 JS9	181	202.7
W02	85 H8	176	210	90.4	22 JS9	181	227.4
W03	95 H8	190	224	100.4	25 JS9	197	304.9
W04	105 H8	194	236	111.4	28 JS9	201	341.75
W05	115 H8	222	254	122.4	32 JS9	265	468
W06	125 H8	224	268	132.4	32 JS9	265	527
W07	135 H8	256	278.6	143.4	36 JS9	305	810
W08	150 H8	256	308	158.4	36 JS9	305	928
W09	165 H8	292	334	174.4	40 JS9	345	1153
W10	165 H8	292	334	174.4	40 JS9	345	1230
W11	180 H8	319	386	190.4	45 JS9	370	1618
W12	190 H8	319	386	200.4	45 JS9	370	1726
W13	210 H8	352	432	221.4	50 JS9	400	2224
W14	210 H8	352	466	221.4	50 JS9	400	2411
W15	230 H8	400	470	241.4	50 JS9	460	2827
W16	240 H8	400	504	252.4	56 JS9	460	3072

Output Shaft. Shrink Disc							
3 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W01	81 H9	80 H7	230	261	173	268	204.9
W02	91 H9	90 H7	240	264	176	272	228.3
W03	101 H9	100 H7	268	286	190	294	307.9
W04	111 H9	110 H7	280	296	194	305	344
W05	121 H9	120 H7	285	328	222	370	471
W06	131 H9	130 H7	316	336	224	375	532
W07	141 H9	140 H7	340	364	256	415	818
W08	151 H9	150 H7	370	364	256	415	939
W09	166 H9	165 H7	390	400	292	450	1186
W10	166 H9	165 H7	390	400	292	450	1264
W11	181 H9	180 H7	456	451	319	500	1644
W12	191 H9	190 H7	456	451	319	500	1753
W13	211 H9	210 H7	520	498	352	550	2255
W14	211 H9	210 H7	560	498	352	550	2442
W15	231 H9	230 H7	564	570	400	630	2864
W16	241 H9	240 H7	600	570	400	630	3106

9.3.3 Parallel Shafts, 4 Stages



4 Estag.	A	B	C	F	G	H	J10	J14	P	Q	S4 (4x)	V2
W03	778	215	442	450	300	225	300	245	400	235	Ø28	68
W04	852	250	481	450	300	225	300	245	404	235	Ø28	68
W05	918	250	518	530	360	265	335	290	432	285	Ø35	86
W06	1009	295	564	530	360	265	335	290	475	285	Ø35	86
W07	1145	355	612	630	425	315	400	340	506	320	Ø42	105
W08	1199	355	666	630	425	315	400	340	556	320	Ø42	105
W09	1258	370	714	670	475	335	415	390	592	375	Ø42	107
W10	1290	370	746	670	475	335	415	390	592	375	Ø42	107
W11	1417	420	813	750	515	375	455	420	612	395	Ø48	128
W12	1452	420	848	750	515	375	455	420	662	395	Ø48	128
W13	1604	465	933	850	570	425	610	440	702	425	M42x63	-
W14	1644	465	973	850	570	425	610	440	762	425	M42x63	-
W15	1718	495	992	900	630	450	600	510	810	485	M48x72	-
W16	1758	495	1032	900	630	450	600	510	810	485	M48x72	-

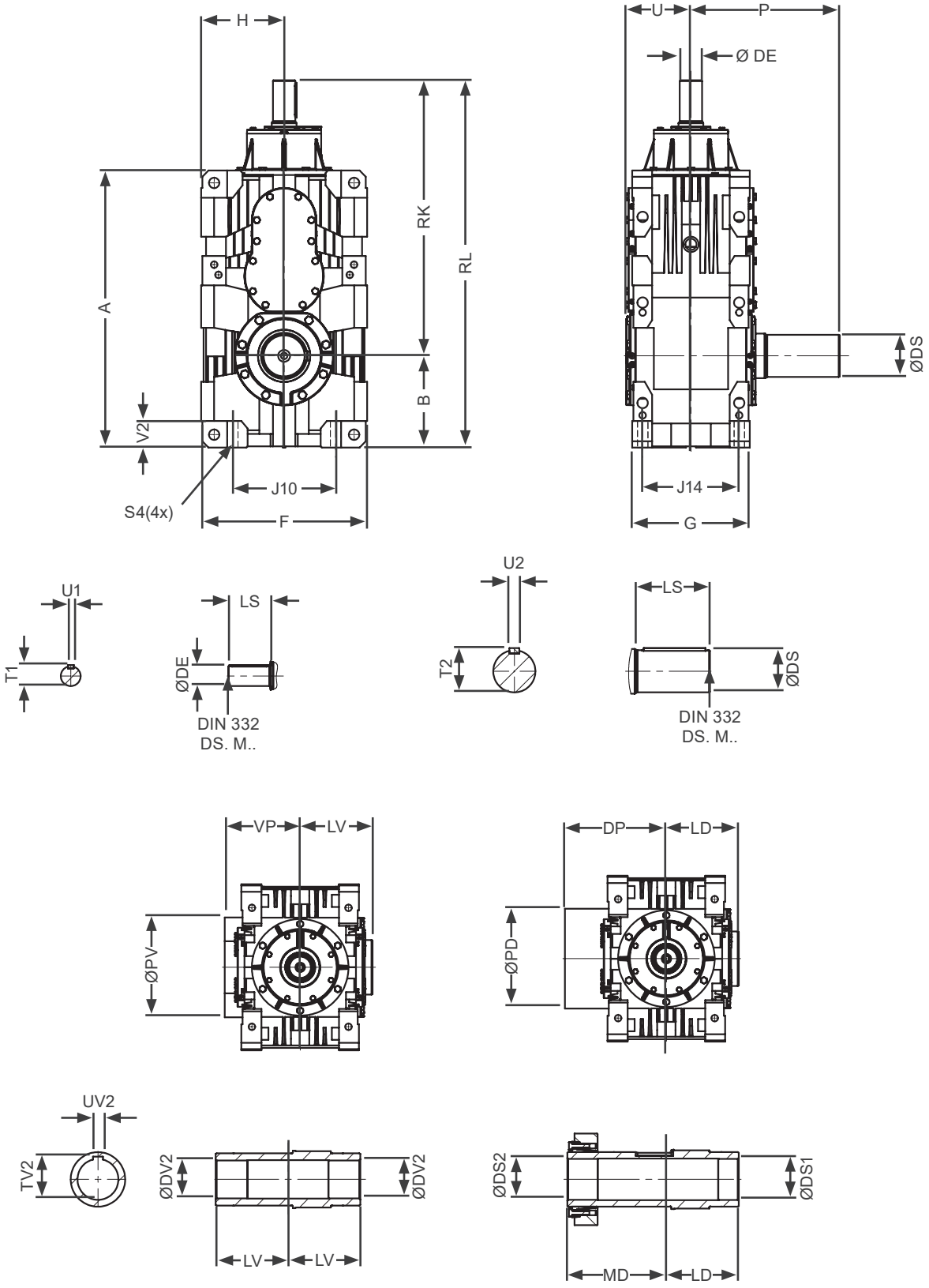
Input Shaft					
4 Stage	Ø DE	LE	T1	U1	DIN 332 DS. M..
W03	25 k6	60	28	8 h9	M10
W04	25 k6	60	28	8 h9	M10
W05	30 k6	80	33	8 h9	M10
W06	30 k6	80	33	8 h9	M10
W07	35 k6	80	38	10 h9	M12
W08	35 k6	80	38	10 h9	M12
W09	40 k6	110	43	12 h9	M16
W10	40 k6	110	43	12 h9	M16
W11	45 k6	110	48.5	14 h9	M16
W12	45 k6	110	48.5	14 h9	M16
W13	55 m6	110	59	16 h9	M20
W14	55 m6	110	59	16 h9	M20
W15	60 m6	140	64	18 h9	M20
W16	60 m6	140	64	18 h9	M20

Solid Output Shaft						
4 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W03	100 m6	210	106	28 h9	M24	340.7
W04	110 m6	210	116	28 h9	M24	382.2
W05	120 m6	210	127	32 h9	M24	520
W06	130 m6	250	137	32 h9	M24	594
W07	140 m6	250	148	36 h9	M30	906
W08	160 m6	300	169	40 h9	M30	1015
W09	170 m6	300	179	40 h9	M30	1288
W10	170 m6	300	179	40 h9	M30	1368
W11	180 m6	300	190	45 h9	M30	1827
W12	190 m6	350	200	45 h9	M30	1938
W13	210 m6	350	221	50 h9	M30	2471
W14	230 m6	410	241	50 h9	M36	2848
W15	230 m6	410	241	50 h9	M36	3293
W16	240 m6	410	252	56 h9	M36	3558

Hollow Output Shaft							
4 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W03	95 H8	190	224	100.4	25 JS9	197	311.1
W04	105 H8	194	236	111.4	28 JS9	201	345.7
W05	115 H8	222	254	122.4	32 JS9	265	471
W06	125 H8	224	268	132.4	32 JS9	265	530
W07	135 H8	256	278.6	143.4	36 JS9	305	819
W08	150 H8	256	308	158.4	36 JS9	305	937
W09	165 H8	292	334	174.4	40 JS9	345	1166
W10	165 H8	292	334	174.4	40 JS9	345	1243
W11	180 H8	319	386	190.4	45 JS9	370	1640
W12	190 H8	319	386	200.4	45 JS9	370	1748
W13	210 H8	352	432	221.4	50 JS9	400	2268
W14	210 H8	352	466	221.4	50 JS9	400	2455
W15	230 H8	400	470	241.4	50 JS9	460	2868
W16	240 H8	400	504	252.4	56 JS9	460	3113

Output Shaft Shrink Disc							
4 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W03	101 H9	100 H7	268	286	190	294	314.2
W04	111 H9	110 H7	280	296	194	305	347.9
W05	121 H9	120 H7	285	328	222	370	474
W06	131 H9	130 H7	316	336	224	375	535
W07	141 H9	140 H7	340	364	256	415	827
W08	151 H9	150 H7	370	364	256	415	948
W09	166 H9	165 H7	390	400	292	450	1199
W10	166 H9	165 H7	390	400	292	450	1277
W11	181 H9	180 H7	456	451	319	500	1666
W12	191 H9	190 H7	456	451	319	500	1775
W13	211 H9	210 H7	520	498	352	550	2299
W14	211 H9	210 H7	560	498	352	550	2486
W15	231 H9	230 H7	564	570	400	630	2905
W16	241 H9	240 H7	600	570	400	630	3147

9.3.4 Right Angle Shafts K, 2 Stages



DIMENSIONS AND WEIGHT

2 Stage	A	B	F	G	H	J10	J14	P	S4 (4x)	U	V2	RK	RL
W01	606	190	380	260	147	250	210	343	24	147	62	656	846
W02	665	215	380	260	190	250	210	346	24	147	62	690	905
W03	693	215	450	300	225	300	245	400	28	167	68	726	941
W04	767	250	450	300	225	300	245	404	28	167	68	765	1015
W05	808	250	530	360	265	335	290	432	Ø35	191	86	842	1092
W06	899	295	530	360	265	335	290	475	Ø35	191	86	888	1183
W07	1015	355	630	425	315	400	340	506	Ø42	226	105	984	1339
W08	1069	355	630	425	315	400	340	556	Ø42	226	105	1038	1393
W09	1118	370	670	475	335	415	390	592	Ø42	261	107	1102	1472
W10	1150	370	670	475	335	415	390	592	Ø42	261	107	1134	1504
W11	1260	420	750	515	375	455	420	612	Ø48	281	128	1275	1695
W12	1295	420	750	515	375	455	420	662	Ø48	281	128	1310	1730
W13	1422	465	850	570	425	610	440	702	M42x63	317	-	1405	1870
W14	1463	465	850	570	425	610	440	762	M42x63	317	-	1446	1911
W15	1531	495	900	630	450	600	510	810	M48x72	357	-	1570	2065
W16	1571	495	900	630	450	600	510	810	M48x72	357	-	1610	2105

Input Shaft					
2 Stage	**Ø DE**	**LS**	**T1**	**U1**	**DIN 332 DS. M..**
W01	45 k6	110	48.5	14 h9	M16
W02	45 k6	110	48.5	14 h9	M16
W03	55 m6	110	59	16 h9	M20
W04	55 m6	110	59	16 h9	M20
W05	70 m6	140	74.5	20 h9	M20
W06	70 m6	140	74.5	20 h9	M20
W07	80 m6	170	85	22 h9	M20
W08	80 m6	170	85	22 h9	M20
W09	90 m6	170	95	25 h9	M24
W10	90 m6	170	95	25 h9	M24
W11	100 m6	210	106	28 h9	M24
W12	100 m6	210	106	28 h9	M24
W13	120 m6	210	131	32 h9	M24
W14	120 m6	210	131	32 h9	M24
W15	130 m6	250	141	32 h9	M24
W16	130 m6	250	141	32 h9	M24

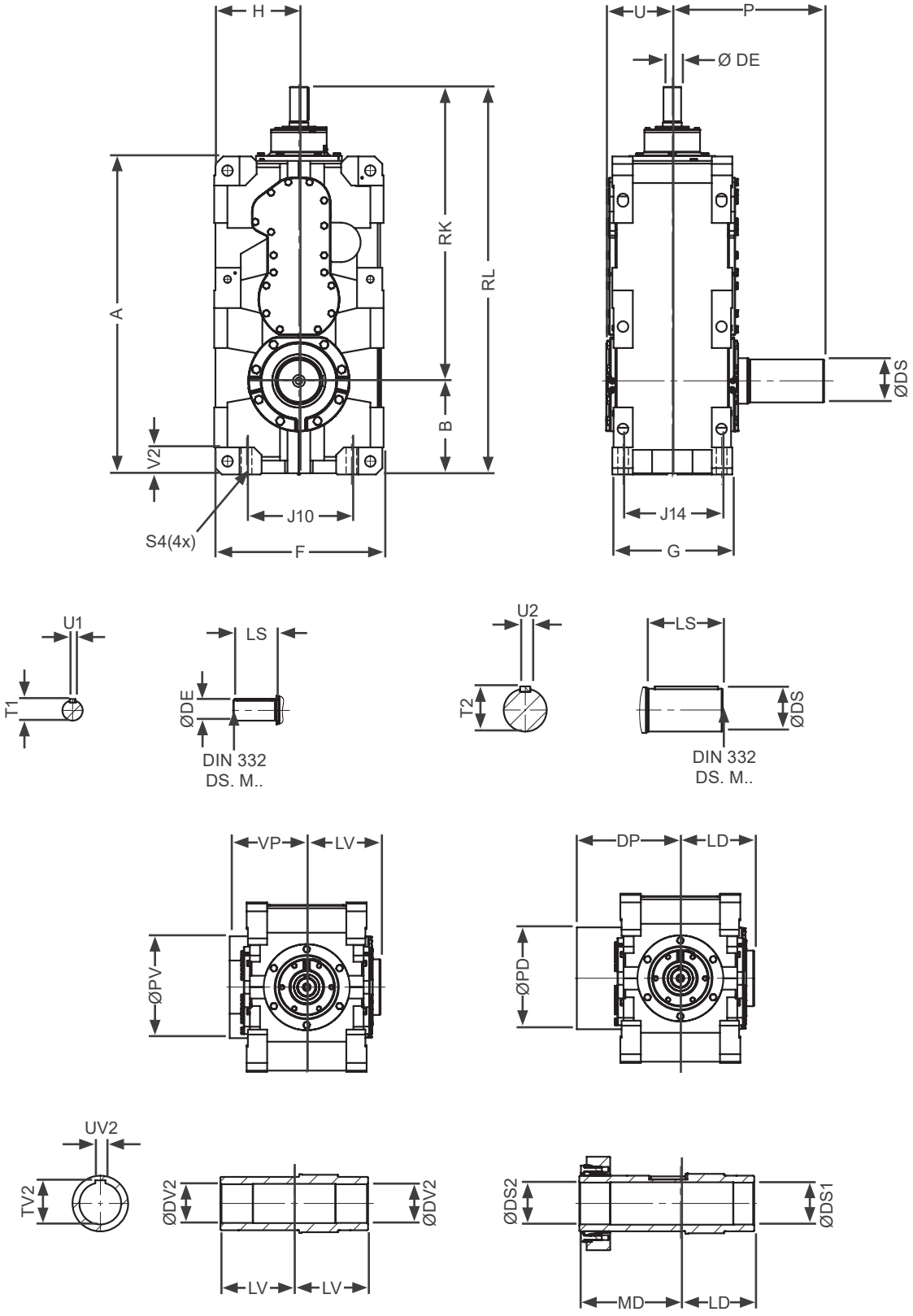
Solid Output Shaft						
2 Stage	**Ø DS**	**LS**	**T2**	**U2**	**DIN 332 DS. M..**	**kg**
W01	80 m6	170	85	22 h9	M20	215.6
W02	90 m6	170	95	25 h9	M24	246.2
W03	100 m6	210	106	28 h9	M24	382.6
W04	110 m6	210	116	28 h9	M24	381
W05	120 m6	210	127	32 h9	M24	543
W06	130 m6	250	137	32 h9	M24	610
W07	140 m6	250	148	36 h9	M30	901
W08	160 m6	300	169	40 h9	M30	1006
W09	170 m6	300	179	40 h9	M30	1256
W10	170 m6	300	179	40 h9	M30	1342

Solid Output Shaft						
2 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W11	180 m6	300	190	45 h9	M30	1771
W12	190 m6	350	200	45 h9	M30	1882
W13	210 m6	350	221	50 h9	M30	2456
W14	230 m6	410	241	50 h9	M36	2811
W15	230 m6	410	241	50 h9	M36	3273
W16	240 m6	410	252	56 h9	M36	3548

Hollow Output Shaft							
2 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W01	75 H8	173	230	79.9	20 JS9	181	204
W02	85 H8	176	210	90.4	22 JS9	181	227
W03	95 H8	190	224	100.4	25 JS9	197	353.1
W04	105 H8	194	236	111.4	28 JS9	201	344.5
W05	115 H8	222	254	122.4	32 JS9	265	494
W06	125 H8	224	268	132.4	32 JS9	265	546
W07	135 H8	256	278.6	143.4	36 JS9	305	814
W08	150 H8	256	308	158.4	36 JS9	305	928
W09	165 H8	292	334	174.4	40 JS9	345	1134
W10	165 H8	292	334	174.4	40 JS9	345	1217
W11	180 H8	319	386	190.4	45 JS9	370	1584
W12	190 H8	319	386	200.4	45 JS9	370	1692
W13	210 H8	352	432	221.4	50 JS9	400	2253
W14	210 H8	352	466	221.4	50 JS9	400	2418
W15	230 H8	400	470	241.4	50 JS9	460	2848
W16	240 H8	400	504	252.4	56 JS9	460	3103

Output Shaft Shrink Disc							
2 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W01	81 H9	80 H7	230	261	173	268	206.1
W02	91 H9	90 H7	240	264	176	272	227.9
W03	101 H9	100 H7	268	286	190	294	356.2
W04	111 H9	110 H7	280	296	194	305	346.8
W05	121 H9	120 H7	285	328	222	370	497
W06	131 H9	130 H7	316	336	224	375	551
W07	141 H9	140 H7	340	364	256	415	822
W08	151 H9	150 H7	370	364	256	415	939
W09	166 H9	165 H7	390	400	292	450	1167
W10	166 H9	165 H7	390	400	292	450	1251
W11	181 H9	180 H7	456	451	319	500	1610
W12	191 H9	190 H7	456	451	319	500	1719
W13	211 H9	210 H7	520	498	352	550	2284
W14	211 H9	210 H7	560	498	352	550	2449
W15	231 H9	230 H7	564	570	400	630	2885
W16	241 H9	240 H7	600	570	400	630	3137

9.3.5 Right Angle Shafts K, 3 Stages



3 Stage	A	B	F	G	H	J10	J14	P	S4 (4x)	U	V2	RK	RL
W01	666	190	380	260	190	250	210	343	24	147	62	636	826
W02	725	215	380	260	190	250	210	346	24	147	62	670	885
W03	778	215	450	300	225	300	245	400	28	167	68	738	953
W04	852	250	450	300	225	300	245	404	28	167	68	777	1027
W05	913	250	530	360	265	335	290	432	Ø35	191	86	888	1138
W06	1004	295	530	360	265	335	290	475	Ø35	191	86	934	1229
W07	1140	355	630	425	315	400	340	506	Ø42	226	105	1000	1355
W08	1194	355	630	425	315	400	340	556	Ø42	226	105	1054	1409
W09	1253	370	670	475	335	415	390	592	Ø42	261	107	1158	1528
W10	1285	370	670	475	335	415	390	592	Ø42	261	107	1190	1560
W11	1412	420	750	515	375	455	420	612	Ø48	281	128	1327	1747
W12	1447	420	750	515	375	455	420	662	Ø48	281	128	1362	1782
W13	1597	465	850	570	425	610	440	702	M42x63	317	-	1497	1962
W14	1637	465	850	570	425	610	440	762	M42x63	317	-	1537	2002
W15	1711	495	900	630	450	600	510	810	M48x72	357	-	1556	2051
W16	1751	495	900	630	450	600	510	810	M48x72	357	-	1596	2091

Input Shaft					
3 Stage	Ø DE	LE	T1	U1	DIN 332 DS. M..
W01	32 k6	80	35	10 h9	M12
W02	32 k6	80	35	10 h9	M12
W03	38 k6	80	41	10 h9	M12
W04	38 k6	80	41	10 h9	M12
W05	45 k6	110	48.5	14 h9	M16
W06	45 k6	110	48.5	14 h9	M16
W07	55 m6	110	59	16 h9	M20
W08	55 m6	110	59	16 h9	M20
W09	70 m6	140	74.5	20 h9	M20
W10	70 m6	140	74.5	20 h9	M20
W11	80 m6	170	85	22 h9	M20
W12	80 m6	170	85	22 h9	M20
W13	90 m6	170	95	25 h9	M24
W14	90 m6	170	95	25 h9	M24
W15	90 m6	170	95	25 h9	M24
W16	90 m6	170	95	25 h9	M24

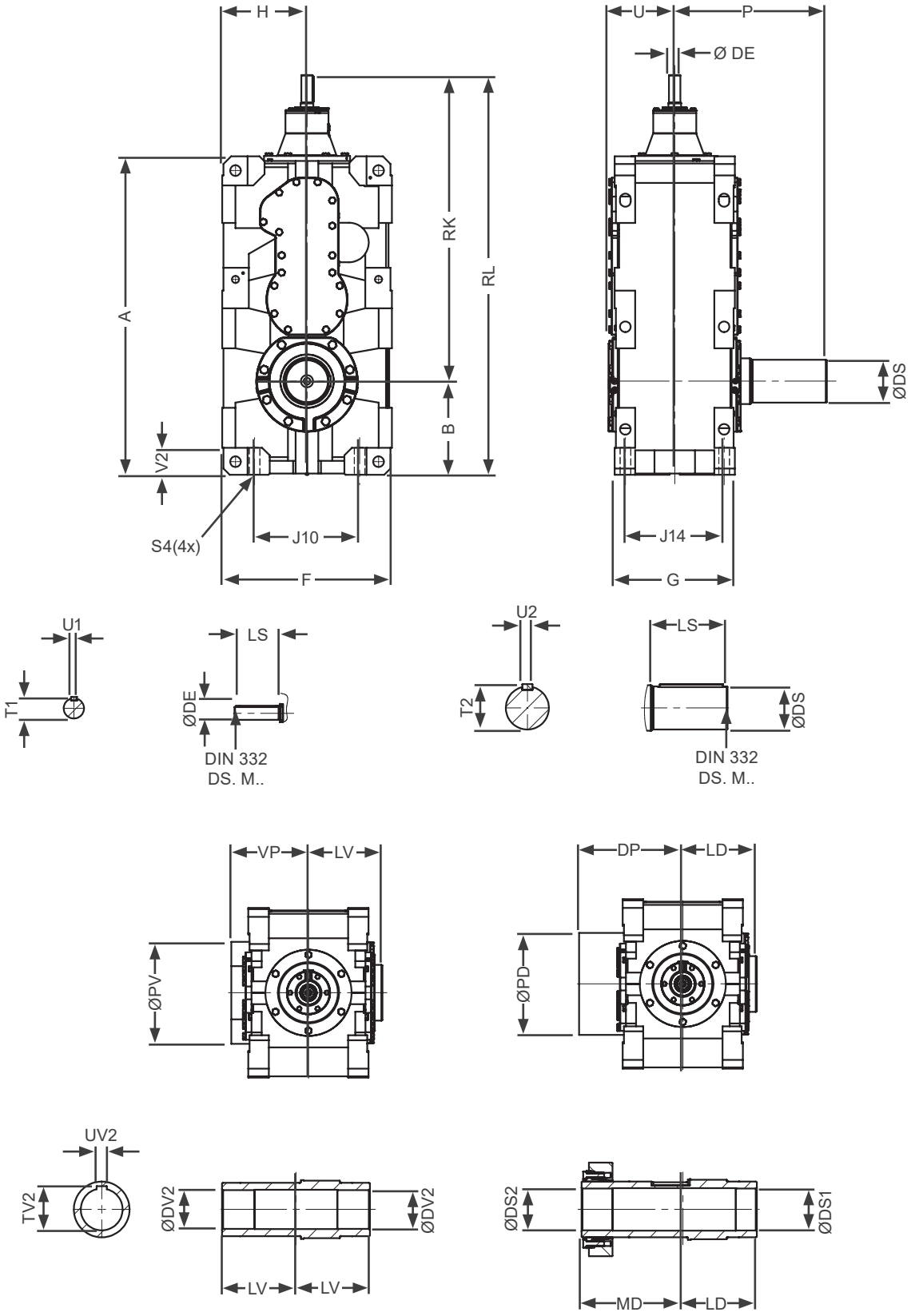
Solid Output Axis						
3 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W01	80 m6	170	85	22 h9	M20	227.2
W02	90 m6	170	95	25 h9	M24	254.8
W03	100 m6	210	106	28 h9	M24	351.9
W04	110 m6	210	116	28 h9	M24	395.2
W05	120 m6	210	127	32 h9	M24	538
W06	130 m6	250	137	32 h9	M24	612
W07	140 m6	250	148	36 h9	M30	927
W08	160 m6	300	169	40 h9	M30	1036
W09	170 m6	300	179	40 h9	M30	1323
W10	170 m6	300	179	40 h9	M30	1403

Solid Output Axis						
3 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W11	180 m6	300	190	45 h9	M30	1884
W12	190 m6	350	200	45 h9	M30	1995
W13	210 m6	350	221	50 h9	M30	2534
W14	230 m6	410	241	50 h9	M36	2911
W15	230 m6	410	241	50 h9	M36	3336
W16	240 m6	410	252	56 h9	M36	3600

Hollow Output Shaft							
3 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W01	75 H8	173	230	79.9	20 JS9	181	213.5
W02	85 H8	176	210	90.4	22 JS9	181	235.6
W03	95 H8	190	224	100.4	25 JS9	197	319.7
W04	105 H8	194	236	111.4	28 JS9	201	358.6
W05	115 H8	222	254	122.4	32 JS9	265	489
W06	125 H8	224	268	132.4	32 JS9	265	548
W07	135 H8	256	278.6	143.4	36 JS9	305	840
W08	150 H8	256	308	158.4	36 JS9	305	958
W09	165 H8	292	334	174.4	40 JS9	345	1201
W10	165 H8	292	334	174.4	40 JS9	345	1278
W11	180 H8	319	386	190.4	45 JS9	370	1697
W12	190 H8	319	386	200.4	45 JS9	370	1805
W13	210 H8	352	432	221.4	50 JS9	400	2331
W14	210 H8	352	466	221.4	50 JS9	400	2518
W15	230 H8	400	470	241.4	50 JS9	460	2911
W16	240 H8	400	504	252.4	56 JS9	460	3155

Output Shaft Shrink Disc							
3 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W01	81 H9	80 H7	230	261	173	268	215.7
W02	91 H9	90 H7	240	264	176	272	236.5
W03	101 H9	100 H7	268	286	190	294	322.8
W04	111 H9	110 H7	280	296	194	305	360.9
W05	121 H9	120 H7	285	328	222	370	492
W06	131 H9	130 H7	316	336	224	375	553
W07	141 H9	140 H7	340	364	256	415	848
W08	151 H9	150 H7	370	364	256	415	969
W09	166 H9	165 H7	390	400	292	450	1234
W10	166 H9	165 H7	390	400	292	450	1312
W11	181 H9	180 H7	456	451	319	500	1723
W12	191 H9	190 H7	456	451	319	500	1832
W13	211 H9	210 H7	520	498	352	550	2362
W14	211 H9	210 H7	560	498	352	550	2549
W15	231 H9	230 H7	564	570	400	630	2948
W16	241 H9	240 H7	600	570	400	630	3189

9.3.6 Right Angle Shafts K, 4 Stages



DIMENSIONS AND WEIGHT

4 Stage	A	B	F	G	H	J10	J14	P	S4 (4x)	U	V2	RK	RL
W03	778	215	450	300	225	300	245	400	Ø28	167	68	732	947
W04	852	250	450	300	225	300	245	404	Ø28	167	68	771	1021
W05	913	250	530	360	265	335	290	432	Ø35	191	86	868	1118
W06	1004	295	530	360	265	335	290	475	Ø35	191	86	914	1209
W07	1140	355	630	425	315	400	340	506	Ø42	226	105	1012	1367
W08	1194	355	630	425	315	400	340	556	Ø42	226	105	1066	1421
W09	1253	370	670	475	335	415	390	592	Ø42	261	107	1204	1574
W10	1285	370	670	475	335	415	390	592	Ø42	261	107	1236	1606
W11	1412	420	750	515	375	455	420	612	Ø48	281	128	1343	1763
W12	1447	420	750	515	375	455	420	662	Ø48	281	128	1378	1798
W13	1597	465	850	570	425	610	440	702	M42x63	317	-	1543	2008
W14	1637	465	850	570	425	610	440	762	M42x63	317	-	1583	2048
W15	1711	495	900	630	450	600	510	810	M48x72	357	-	1602	2097
W16	1751	495	900	630	450	600	510	810	M48x72	357	-	1642	2137

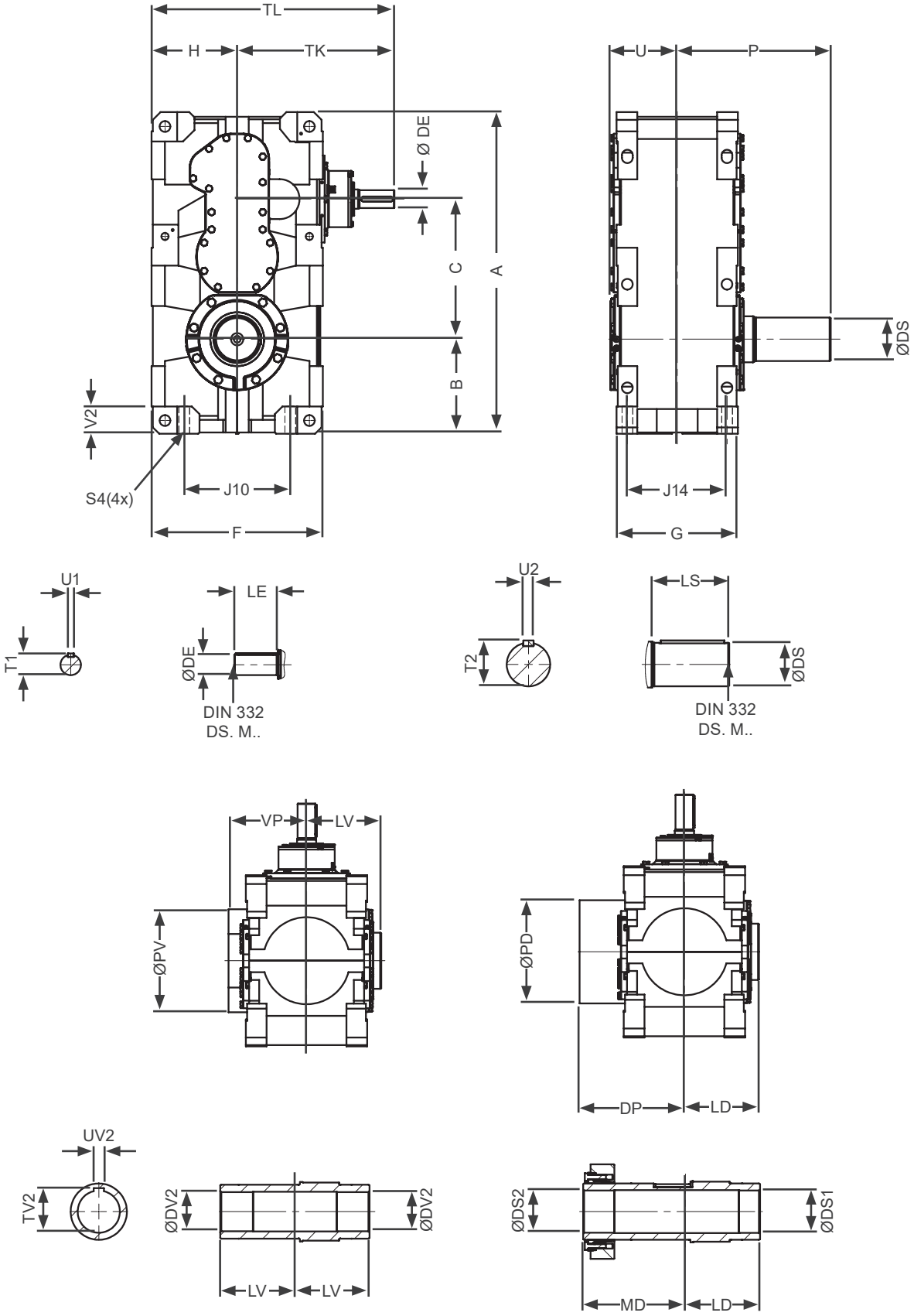
Input Shaft					
4 Stage	**Ø DE**	**LE**	**T1**	**U1**	**DIN 332 DS. M..**
W03	28 k6	60	31	8 h9	M10
W04	28 k6	60	31	8 h9	M10
W05	32 k6	80	35	10 h9	M12
W06	32 k6	80	35	10 h9	M12
W07	38 k6	80	41	10 h9	M12
W08	38 k6	80	41	10 h9	M12
W09	45 k6	110	48,5	14 h9	M16
W10	45 k6	110	48,5	14 h9	M16
W11	55 m6	110	59	16 h9	M20
W12	55 m6	110	59	16 h9	M20
W13	70 m6	140	74,5	20 h9	M20
W14	70 m6	140	74,5	20 h9	M20
W15	70 m6	140	74,5	20 h9	M20
W16	70 m6	140	74,5	20 h9	M20

Solid Output Shaft						
4 Estag.	**Ø DS**	**LS**	**T2**	**U2**	**DIN 332 DS. M..**	**kg**
W03	100 m6	210	106	28 h9	M24	332.4
W04	110 m6	210	116	28 h9	M24	371.6
W05	120 m6	210	127	32 h9	M24	532
W06	130 m6	250	137	32 h9	M24	606
W07	140 m6	250	148	36 h9	M30	925
W08	160 m6	300	169	40 h9	M30	1034
W09	170 m6	300	179	40 h9	M30	1318
W10	170 m6	300	179	40 h9	M30	1398
W11	180 m6	300	190	45 h9	M30	1873
W12	190 m6	350	200	45 h9	M30	1984
W13	210 m6	350	221	50 h9	M30	2537
W14	230 m6	410	241	50 h9	M36	2914
W15	230 m6	410	241	50 h9	M36	3350
W16	240 m6	410	252	56 h9	M36	3614

Hollow Output Shaft							
4 Stage	**Ø DV2**	**LV**	**Ø PV**	**TV2**	**UV2**	**VP**	**kg**
W03	95 H8	190	224	100.4	25 JS9	197	302.9
W04	105 H8	194	236	111.4	28 JS9	201	335.1
W05	115 H8	222	254	122.4	32 JS9	265	483
W06	125 H8	224	268	132.4	32 JS9	265	542
W07	135 H8	256	278.6	143.4	36 JS9	305	838
W08	150 H8	256	308	158.4	36 JS9	305	956
W09	165 H8	292	334	174.4	40 JS9	345	1196
W10	165 H8	292	334	174.4	40 JS9	345	1273
W11	180 H8	319	386	190.4	45 JS9	370	1686
W12	190 H8	319	386	200.4	45 JS9	370	1794
W13	210 H8	352	432	221.4	50 JS9	400	2334
W14	210 H8	352	466	221.4	50 JS9	400	2521
W15	230 H8	400	470	241.4	50 JS9	460	2925
W16	240 H8	400	504	252.4	56 JS9	460	3169

Output Shaft Shrink Disc							
4 Stage	**Ø DS1**	**Ø DS2**	**Ø PD**	**MD**	**LD**	**DP**	**kg**
W03	101 H9	100 H7	268	286	190	294	306
W04	111 H9	110 H7	280	296	194	305	337.3
W05	121 H9	120 H7	285	328	222	370	486
W06	131 H9	130 H7	316	336	224	375	547
W07	141 H9	140 H7	340	364	256	415	846
W08	151 H9	150 H7	370	364	256	415	967
W09	166 H9	165 H7	390	400	292	450	1229
W10	166 H9	165 H7	390	400	292	450	1307
W11	181 H9	180 H7	456	451	319	500	1712
W12	191 H9	190 H7	456	451	319	500	1821
W13	211 H9	210 H7	520	498	352	550	2365
W14	211 H9	210 H7	560	498	352	550	2552
W15	231 H9	230 H7	564	570	400	630	2962
W16	241 H9	240 H7	600	570	400	630	3203

9.3.7 Right Angle Shafts T, 3 Stages



3 Stage	A	B	C	F	G	H	J10	J14	P	S4 (4x)	U	V2	TK	TL
W01	666	190	286	380	260	190	250	210	343	24	147	62	350	540
W02	725	215	320	380	260	190	250	210	346	24	147	62	350	540
W03	778	215	338	450	300	225	300	245	400	28	167	68	400	625
W04	852	250	377	450	300	225	300	245	404	28	167	68	400	625
W05	913	250	398	530	360	265	335	290	432	Ø35	191	86	490	755
W06	1004	295	444	530	360	265	335	290	475	Ø35	191	86	490	755
W07	1140	355	470	630	425	315	400	340	506	Ø42	226	105	530	845
W08	1194	355	524	630	425	315	400	340	556	Ø42	226	105	530	845
W09	1253	370	548	670	475	335	415	390	592	Ø42	261	107	610	945
W10	1285	370	580	670	475	335	415	390	592	Ø42	261	107	610	945
W11	1412	420	617	750	515	375	455	420	612	Ø48	281	128	710	1085
W12	1447	420	652	750	515	375	455	420	662	Ø48	281	128	710	1085
W13	1597	465	707	850	570	425	610	440	702	M42x63	317	-	790	1215
W14	1637	465	747	850	570	425	610	440	762	M42x63	317	-	790	1215
W15	1711	495	766	900	630	450	600	510	810	M48x72	357	-	790	1240
W16	1751	495	806	900	630	450	600	510	810	M48x72	357	-	790	1240

Input Shaft					
3 Stage	Ø DE	LE	T1	U1	DIN 332 DS. M..
W01	32 k6	80	35	10 h9	M12
W02	32 k6	80	35	10 h9	M12
W03	38 k6	80	41	10 h9	M12
W04	38 k6	80	41	10 h9	M12
W05	45 k6	110	48.5	14 h9	M16
W06	45 k6	110	48.5	14 h9	M16
W07	55 m6	110	59	16 h9	M20
W08	55 m6	110	59	16 h9	M20
W09	70 m6	140	74.5	20 h9	M20
W10	70 m6	140	74.5	20 h9	M20
W11	80 m6	170	85	22 h9	M20
W12	80 m6	170	85	22 h9	M20
W13	90 m6	170	95	25 h9	M24
W14	90 m6	170	95	25 h9	M24
W15	90 m6	170	95	25 h9	M24
W16	90 m6	170	95	25 h9	M24

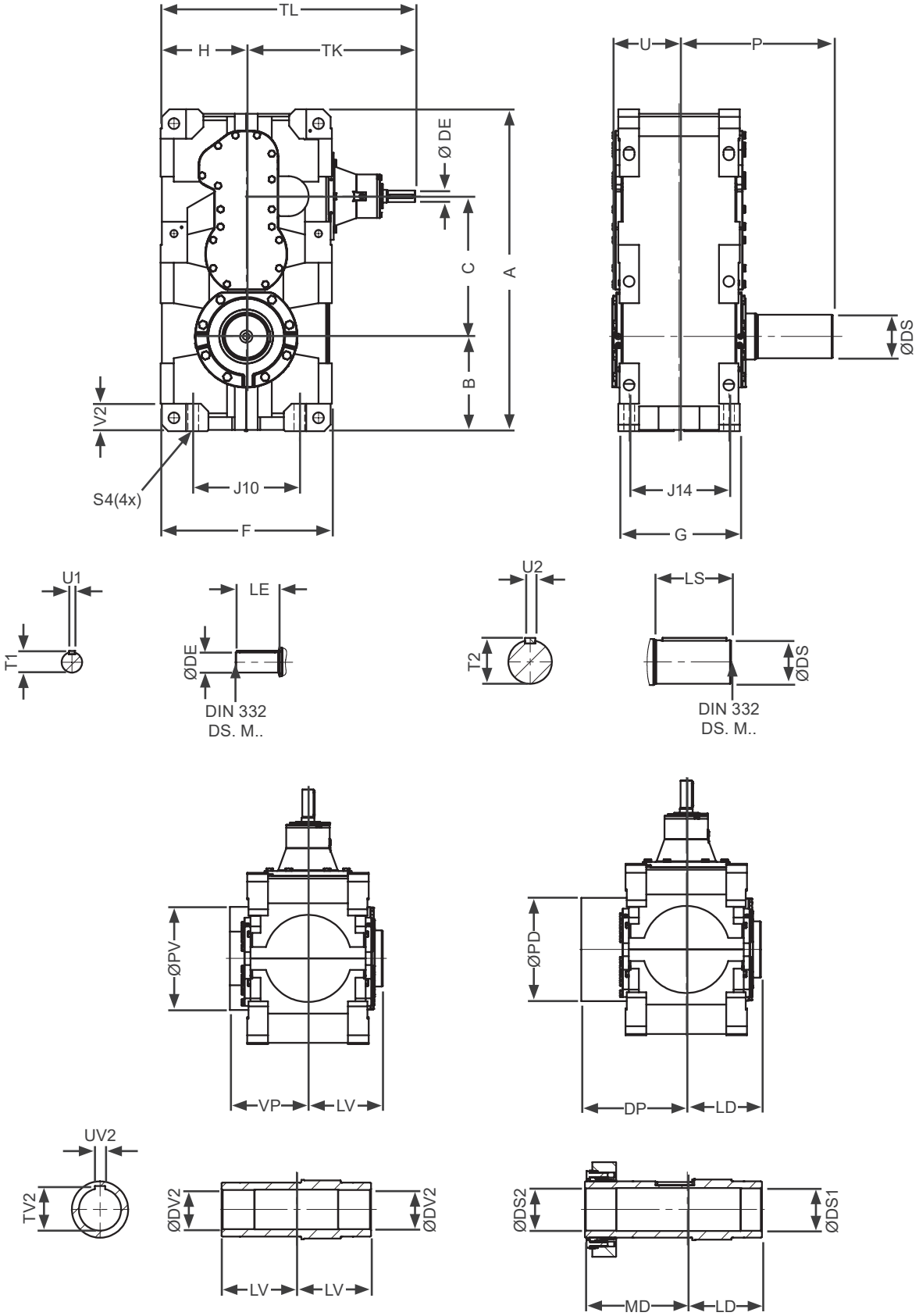
Solid Output Shaft						
3 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W01	80 m6	170	85	22 h9	M20	227.4
W02	90 m6	170	95	25 h9	M24	254.5
W03	100 m6	210	106	28 h9	M24	351.9
W04	110 m6	210	116	28 h9	M24	392.5
W05	120 m6	210	127	32 h9	M24	538
W06	130 m6	250	137	32 h9	M24	612
W07	140 m6	250	148	36 h9	M30	927
W08	160 m6	300	169	40 h9	M30	1036
W09	170 m6	300	179	40 h9	M30	1323

Solid Output Shaft						
3 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W10	170 m6	300	179	40 h9	M30	1403
W11	180 m6	300	190	45 h9	M30	1884
W12	190 m6	350	200	45 h9	M30	1995
W13	210 m6	350	221	50 h9	M30	2534
W14	230 m6	410	241	50 h9	M36	2911
W15	230 m6	410	241	50 h9	M36	3336
W16	240 m6	410	252	56 h9	M36	3600

Hollow Output Shaft							
3 Stage	Ø DV2	LV	Ø PV	TV2	UV2	VP	kg
W01	75 H8	173	230	79.9	20 JS9	181	213.6
W02	85 H8	176	210	90.4	22 JS9	181	235.3
W03	95 H8	190	224	100.4	25 JS9	197	319.7
W04	105 H8	194	236	111.4	28 JS9	201	356
W05	115 H8	222	254	122.4	32 JS9	265	489
W06	125 H8	224	268	132.4	32 JS9	265	548
W07	135 H8	256	278.6	143.4	36 JS9	305	840
W08	150 H8	256	308	158.4	36 JS9	305	958
W09	165 H8	292	334	174.4	40 JS9	345	1201
W10	165 H8	292	334	174.4	40 JS9	345	1278
W11	180 H8	319	386	190.4	45 JS9	370	1697
W12	190 H8	319	386	200.4	45 JS9	370	1805
W13	210 H8	352	432	221.4	50 JS9	400	2331
W14	210 H8	352	466	221.4	50 JS9	400	2518
W15	230 H8	400	470	241.4	50 JS9	460	2911
W16	240 H8	400	504	252.4	56 JS9	460	3155

Output Shaft Shrink Disc							
3 Stage	Ø DS1	Ø DS2	Ø PD	MD	LD	DP	kg
W01	81 H9	80 H7	230	261	173	268	215.8
W02	91 H9	90 H7	240	264	176	272	236.2
W03	101 H9	100 H7	268	286	190	294	322.8
W04	111 H9	110 H7	280	296	194	305	358.2
W05	121 H9	120 H7	285	328	222	370	492
W06	131 H9	130 H7	316	336	224	375	553
W07	141 H9	140 H7	340	364	256	415	848
W08	151 H9	150 H7	370	364	256	415	969
W09	166 H9	165 H7	390	400	292	450	1234
W10	166 H9	165 H7	390	400	292	450	1312
W11	181 H9	180 H7	456	451	319	500	1723
W12	191 H9	190 H7	456	451	319	500	1832
W13	211 H9	210 H7	520	498	352	550	2362
W14	211 H9	210 H7	560	498	352	550	2549
W15	231 H9	230 H7	564	570	400	630	2948
W16	241 H9	240 H7	600	570	400	630	3189

9.3.8 Right Angle Shafts T, 4 Stages



DIMENSIONS AND WEIGHT

4 Stage	A	B	C	F	G	H	J10	J14	P	S4 (4x)	U	V2	TK	TL
W03	778	215	338	450	300	225	305	245	400	Ø28	167	68	397	622
W04	852	250	377	450	300	225	300	245	404	Ø28	167	68	394	619
W05	913	250	398	530	360	265	335	290	432	Ø35	191	86	470	735
W06	1004	295	444	530	360	265	335	290	475	Ø35	191	86	470	735
W07	1140	355	470	630	425	315	400	340	506	Ø42	226	105	542	857
W08	1194	355	524	630	425	315	400	340	556	Ø42	226	105	542	857
W09	1253	370	548	670	475	335	415	390	592	Ø42	261	107	656	991
W10	1285	370	580	670	475	335	415	390	592	Ø42	261	107	656	991
W11	1412	420	617	750	515	375	455	420	612	Ø48	281	128	726	1101
W12	1447	420	652	750	515	375	455	420	662	Ø48	281	128	726	1101
W13	1597	465	707	850	570	425	610	440	702	M42x63	317	-	836	1261
W14	1637	465	747	850	570	425	610	440	762	M42x63	317	-	836	1261
W15	1711	495	766	900	630	450	600	510	810	M48x72	357	-	836	1286
W16	1751	495	806	900	630	450	600	510	810	M48x72	357	-	836	1286

Input Shaft					
4 Stage	Ø DE	LE	T1	U1	DIN 332 DS. M..
W03	28 k6	60	31	8 h9	M10
W04	28 k6	60	31	8 h9	M10
W05	32 k6	80	35	10 h9	M12
W06	32 k6	80	35	10 h9	M12
W07	38 k6	80	41	10 h9	M12
W08	38 k6	80	41	10 h9	M12
W09	45 k6	110	48.5	14 h9	M16
W10	45 k6	110	48.5	14 h9	M16
W11	55 m6	110	59	16 h9	M20
W12	55 m6	110	59	16 h9	M20
W13	70 m6	140	74.5	20 h9	M20
W14	70 m6	140	74.5	20 h9	M20
W15	70 m6	140	74.5	20 h9	M20
W16	70 m6	140	74.5	20 h9	M20

Solid Output Shaft						
4 Stage	Ø DS	LS	T2	U2	DIN 332 DS. M..	kg
W03	100 m6	210	106	28 h9	M24	343.2
W04	110 m6	210	116	28 h9	M24	373.7
W05	120 m6	210	127	32 h9	M24	532
W06	130 m6	250	137	32 h9	M24	606
W07	140 m6	250	148	36 h9	M30	925
W08	160 m6	300	169	40 h9	M30	1034
W09	170 m6	300	179	40 h9	M30	1318
W10	170 m6	300	179	40 h9	M30	1398
W11	180 m6	300	190	45 h9	M30	1873
W12	190 m6	350	200	45 h9	M30	1984
W13	210 m6	350	221	50 h9	M30	2537
W14	230 m6	410	241	50 h9	M36	2914
W15	230 m6	410	241	50 h9	M36	3350
W16	240 m6	410	252	56 h9	M36	3614

Hollow Output Shaft							
4 Stage	**Ø DV2**	**LV**	**Ø PV**	**TV2**	**UV2**	**VP**	**kg**
W03	95 H8	190	224	100.4	25 JS9	197	317.4
W04	105 H8	194	236	111.4	28 JS9	201	337.2
W05	115 H8	222	254	122.4	32 JS9	265	483
W06	125 H8	224	268	132.4	32 JS9	265	542
W07	135 H8	256	278.6	143.4	36 JS9	305	838
W08	150 H8	256	308	158.4	36 JS9	305	956
W09	165 H8	292	334	174.4	40 JS9	345	1196
W10	165 H8	292	334	174.4	40 JS9	345	1273
W11	180 H8	319	386	190.4	45 JS9	370	1686
W12	190 H8	319	386	200.4	45 JS9	370	1794
W13	210 H8	352	432	221.4	50 JS9	400	2334
W14	210 H8	352	466	221.4	50 JS9	400	2521
W15	230 H8	400	470	241.4	50 JS9	460	2925
W16	240 H8	400	504	252.4	56 JS9	460	3169

Output Shaft Shrink Disc							
4 Stage	**Ø DS1**	**Ø DS2**	**Ø PD**	**MD**	**LD**	**DP**	**kg**
W03	101 H9	100 H7	268	286	190	294	318.9
W04	111 H9	110 H7	280	296	194	305	339.4
W05	121 H9	120 H7	285	328	222	370	486
W06	131 H9	130 H7	316	336	224	375	547
W07	141 H9	140 H7	340	364	256	415	846
W08	151 H9	150 H7	370	364	256	415	967
W09	166 H9	165 H7	390	400	292	450	1229
W10	166 H9	165 H7	390	400	292	450	1307
W11	181 H9	180 H7	456	451	319	500	1712
W12	191 H9	190 H7	456	451	319	500	1821
W13	211 H9	210 H7	520	498	352	550	2365
W14	211 H9	210 H7	560	498	352	550	2552
W15	231 H9	230 H7	564	570	400	630	2962
W16	241 H9	240 H7	600	570	400	630	3203

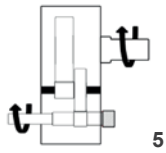
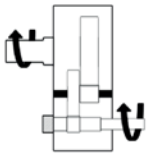
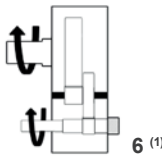
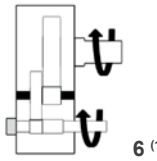
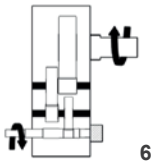
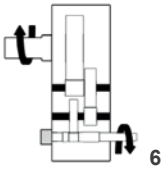
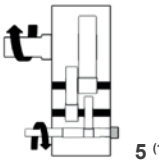
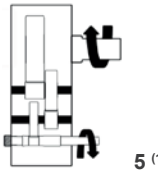
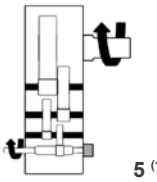
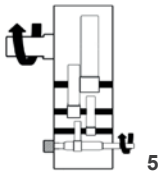
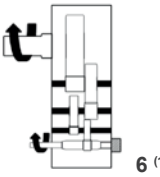
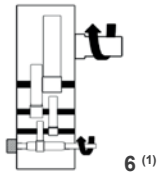
10 ACCESSORIES - ADDITIONAL DIMENSIONS

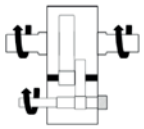
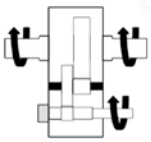
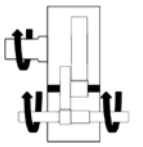
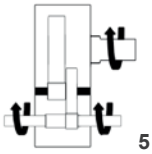
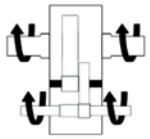
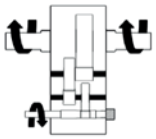
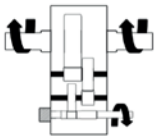
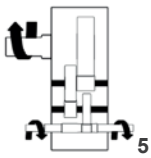
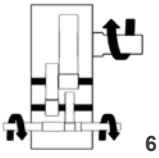
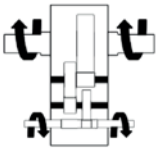
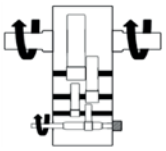
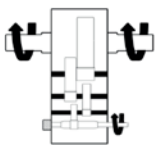
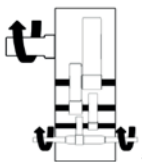
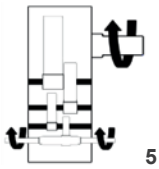
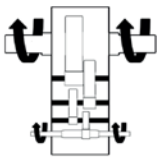
10.1 BACKSTOP

Gear units can operate in both directions of rotation, except when backstop is required, in this case, the needed direction must be specified. The following tables show the relationship between the direction of rotation of the output shaft and the input shaft.

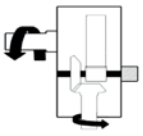
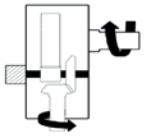
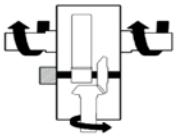
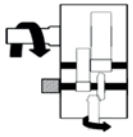
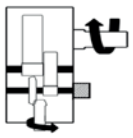
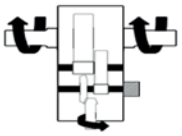
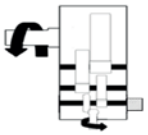
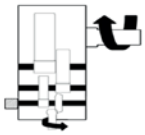
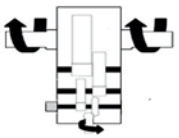
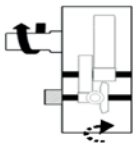
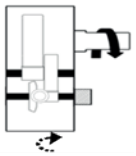
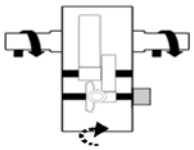
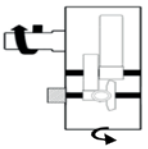
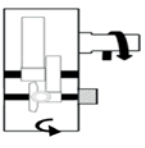
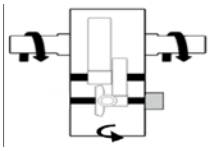
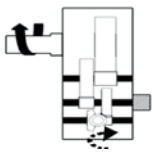
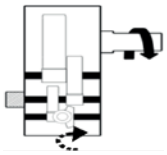
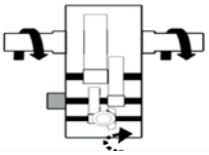
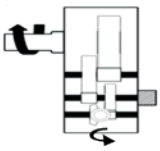
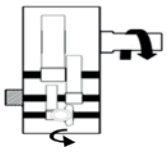
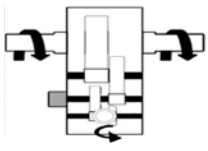
The position of the output gear (5 or 6) affects the radial load capacity of the output shaft.

When the gearbox has a double-ended input shaft, a backstop in an alternate position may be used (consult WEG-CESTARI).

	Stages	Side A - Side B	Side B - Side A	Side A - Side A	Side B - Side B
Parallel	2	 5 (1)	 5 (1)	 6 (1)	 6 (1)
	3	 6 (1)	 6 (1)	 5 (1)	 5 (1)
	4	 5 (1)	 5 (1)	 6 (1)	 6 (1)

	Stages	Side A - Side A / Side B	Side B - Side A / Side B	Side A / Side B - Side A	Side A / Side B - Side B	Side A / Side B - Side A / Side B
Parallel	2			 5 (1)	 5 (1)	
	3			 5 (1)	 6 (1)	
	4			 5 (1)	 5 (1)	

Note: (1) Output gear position.

	Stages	1 - Side A	1 - Side B	1 - Side A / Side B
Right Angle (K)	2	 5 (1)	 5 (1)	
	3	 5 (1)	 5 (1)	
	4	 5 (1)	 5 (1)	
Right Angle (T)	3	 5 (1)	 5 (1)	
		 5 (1)	 5 (1)	
	4	 5 (1)	 5 (1)	
		 5 (1)	 5 (1)	

Note: (1) Output gear position.

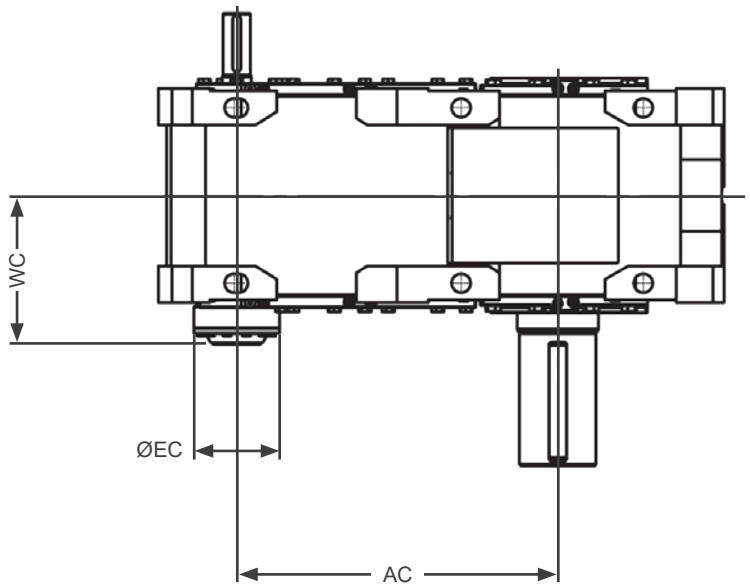
The backstop is a device coupled to the gearbox that allows rotation in only one direction. The backstop used in the WCG50 Ex h is of the FXM type with the "lift-off X" system, which consists of a "sprag" and a cage with cores that are driven by centrifugal force.

When the equipment is in operation and the anti-reverse mechanism is in free rotation, the locking pins do not come into contact with the ends of the anti-reverse mechanism; this condition persists until the rotation is reduced and the pins are ready to lock the system.

The backstop is lubricated by the gearbox oil.

The minimum input shaft speed for the backstop is as shown in the tables. For parallel-shaft gearboxes, the backstop is installed on the input shaft.

10.1.1 Parallel Shafts, 2, 3, and 4 Stage



2 Stage	AC	Ø EC	WC	Min. RPM
W01	286	132	193	700
W02	320	132	215	700
W03	338	175	255	430
W04	377	175	255	430
W05	398	190	270	400
W06	444	190	270	400
W07	470	210	317	320
W08	524	210	317	320
W09	548	245	357	320
W10	580	245	357	320
W11	617	290	390	250
W12	652	290	390	250
W13	707	290	422	250
W14	748	290	422	250
W15	766	310	460	240
W16	806	310	460	240

3 Stage	AC	Ø EC	WC	Min. RPM
W01	376	95	192	820
W02	410	95	192	820
W03	442	110	235	820
W04	481	110	235	820
W05	518	140	243	670
W06	564	140	243	670
W07	612	150	285	630
W08	666	150	285	630
W09	714	190	331	400
W10	746	190	331	400
W11	813	210	389	320
W12	848	210	389	320
W13	933	210	393	320
W14	973	210	393	320
W15	992	210	423	320
W16	1032	210	423	320

4 Stage	AC	Ø EC	WC	Min. RPM
W03	442	90	202	860
W04	481	110	235	860
W05	518	95	241	820
W06	564	95	241	820
W07	612	105	278	750
W08	666	105	278	750
W09	714	132	304	700
W10	746	132	304	700
W11	813	132	324	700
W12	848	132	324	700
W13	933	150	361	630
W14	973	150	361	630
W15	992	175	406	430
W16	1032	175	406	430

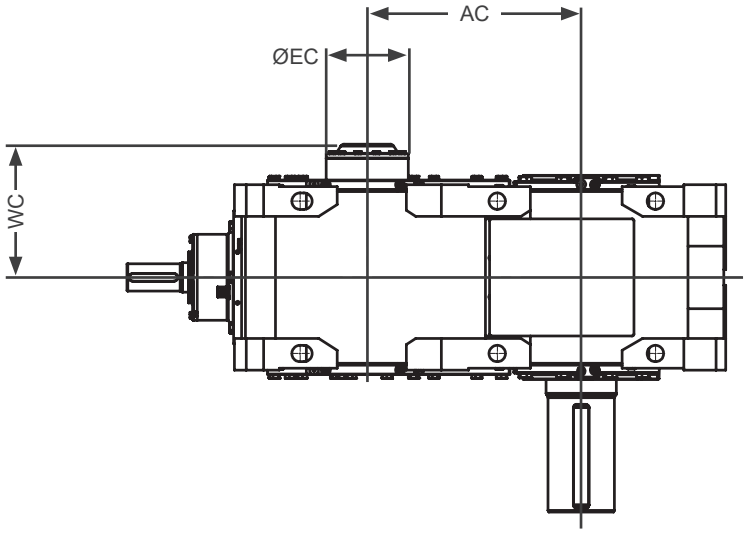
- Double-ended bit with recoil control, available upon request.

- For right angle T, standard Backstop on side A and side B available upon request.

- Hollow Shaft Output: the Backstop will be positioned opposite the machine shaft’s input side.

- Standard double-ended output shaft on side A, side B available upon request.

10.1.2 K-Series Right Angle Shafts, 2, 3, and 4 Stage



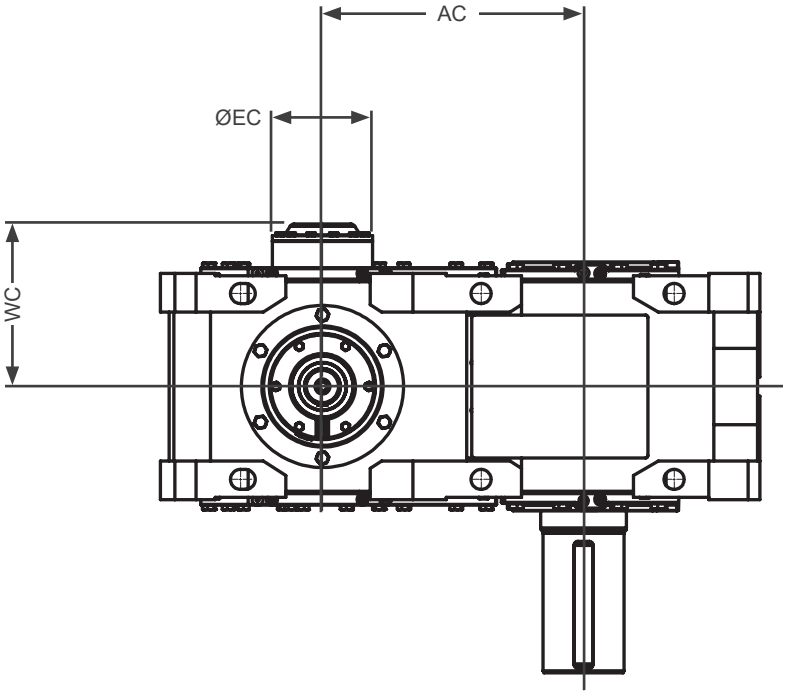
2 Stage	AC	Ø EC	WC	Min. RPM (1)
W01	166	175	235	1354.5
W02	200	175	235	1354.5
W03	196	190	262	1260
W04	235	190	262	1260
W05	232	210	280	1008
W06	278	210	280	1008
W07	274	245	329	1008
W08	328	245	329	1008
W09	322	290	370	787.5
W10	354	290	370	787.5
W11	355	310	394	756
W12	390	310	394	756
W13	405	310	426	756
W14	445	310	426	756
W15	440	430	516	756
W16	480	430	516	756

3 Stage	AC	Ø EC	WC	Min. RPM (1)
W01	286	132	216	1720 (**)
W02	320	132	216	1720 (**)
W03	338	150	242	1550 (**)
W04	377	150	242	1550 (**)
W05	398	175	263	1720
W06	444	175	263	1720
W07	470	190	307	1600
W08	524	190	307	1600
W09	548	210	341	1280
W10	580	210	341	1280
W11	617	245	402	1280
W12	652	245	402	1280
W13	707	290	447	1000
W14	747	290	447	1000
W15	766	290	477	1000
W16	806	290	477	1000
W17	1114	290	481.5	1000
W18	1162	290	481.5	1000
W19	1210	290	481.5	1000
W20	966	310	530.5	1000
W21	1020	310	530.5	1000
W22	1070	430	654.5	840
W23	1130	430	654.5	840

4 Stage	AC	Ø EC	WC	Min. RPM (1)
W03	442	90	202	(*)
W04	481	110	235	(*)
W05	518	120	233	(*)
W06	564	120	233	(*)
W07	612	132	280	(*)
W08	666	132	280	(*)
W09	714	150	309	(*)
W10	746	150	309	(*)
W11	813	175	344	1720
W12	848	175	344	1720
W13	933	190	383	1600
W14	973	190	383	1600
W15	992	210	423	1280
W16	1032	210	423	1280
W17	1114	210	458.5	1280
W18	1162	210	458.5	1280
W19	1210	210	458.5	1280
W20	1268	210	501.5	1280
W21	1322	210	501.5	1280
W22	1396	245	560.5	1280
W23	1456	245	560.5	1280

Notes: backstop installed on the intermediate shaft.
(*) Consult WEG-CESTARI.
(**) For Right angle gearboxes, sizes 01 and 03 with a gear ratio of 50 to 80, and sizes 02 and 04 with a gear ratio of 63 to 100, consult WEG-CESTARI.
(1) Depending on the reduction ratio, a lower speed than that shown in the table may be acceptable (consult WEG-CESTARI).

10.1.3 Right Angle Shafts, 3 and 4 Stage



3 Stage	AC	Ø EC	WC	Min. RPM (1)
W01	286	132	216	1720 (**)
W02	320	132	216	1720 (**)
W03	338	150	242	1550 (**)
W04	377	150	242	1550 (**)
W05	398	175	263	1720
W06	444	175	263	1720
W07	470	190	307	1600
W08	524	190	307	1600
W09	548	210	341	1280
W10	580	210	341	1280
W11	617	245	402	1280
W12	652	245	402	1280
W13	707	290	447	1000
W14	747	290	447	1000
W15	766	290	477	1000
W16	806	290	477	1000

4 Stage	AC	Ø EC	WC	Min. RPM (1)
W03	442	90	202	(*)
W04	481	110	235	(*)
W05	518	120	233	(*)
W06	564	120	233	(*)
W07	612	132	280	(*)
W08	666	132	280	(*)
W09	714	150	309	(*)
W10	746	150	309	(*)
W11	813	175	344	1720
W12	848	175	344	1720
W13	933	190	383	1600
W14	973	190	383	1600
W15	992	210	423	1280
W16	1032	210	423	1280

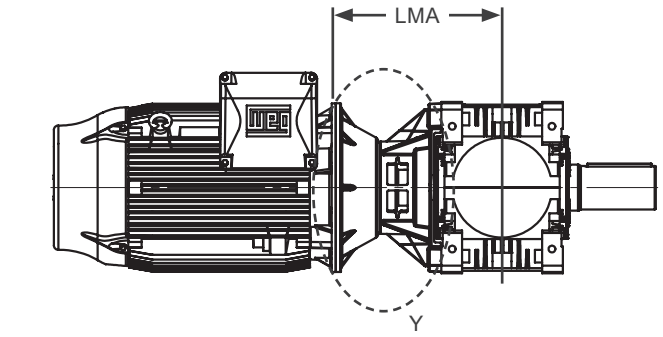
Notes: backstop installed on the intermediate shaft.
(*) Consult WEG-CESTARI.
(**) For right angle gearboxes, sizes 01 and 03 with a gear ratio of 50 to 80, and sizes 02 and 04 with a gear ratio of 63 to 100, consult WEG-CESTARI.
(1) Depending on the reduction ratio, a lower speed than that shown in the table may be acceptable (consult WEG-CESTARI).

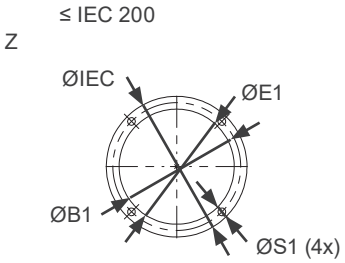
10.2 MOTOR FLANGE

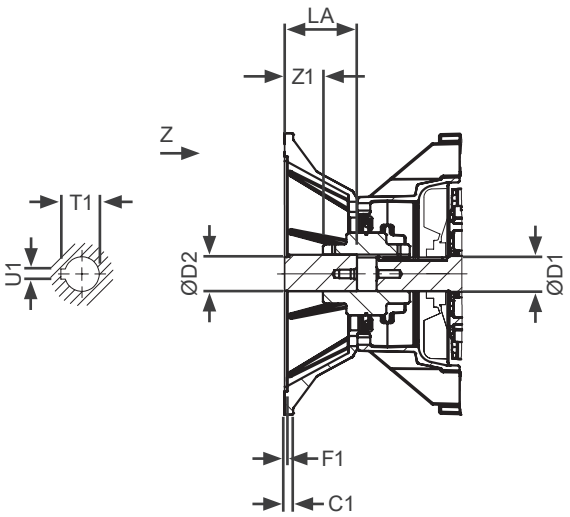
- They can be supplied with 2- or 3-stage fans.
- IEC motors, housing sizes 100 to 355.
- NEMA motors, housing sizes 182 to 586.
- Motor weight limits (see Chapter 9 DIMENSIONS AND WEIGHT on page 236 for more information).
- Dimensions (see Chapter 9 DIMENSIONS AND WEIGHT on page 236 for more information).
- With coupling included.
- The IEC and NEMA C or D lantern flange is supplied as standard with a 98ShA polyurethane coupling suitable for classified areas.
- Consider only the weight of the gear unit; to determine the weight of the motor, consult the manufacturer's catalog.

10.3 IEC MOTOR INPUT FLANGE

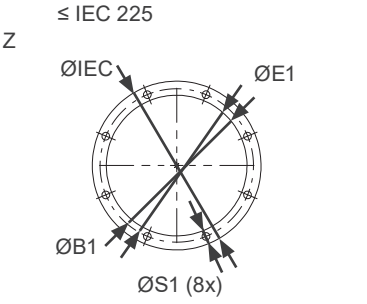
10.3.1 Parallel Shafts, 2 Stage





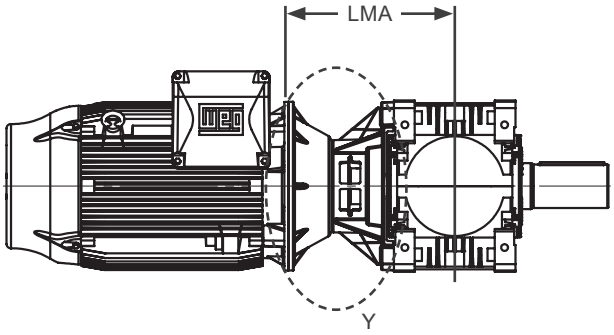


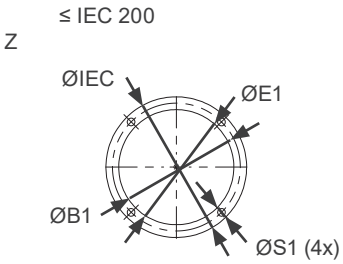
Detail Y

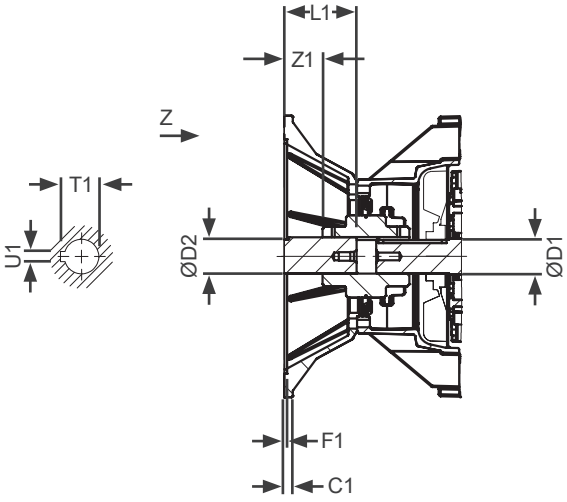


2 Stage	IEC	Ø IEC	Ø B1	C1	Ø D1	Ø D2	Ø E1	F1	L1	Ø S1	T1	U1	Z1	LMA	kg
W01	160	350	250 H7	18	40	42 H7	300	6	110	19 (8x)	45.3	12 JS9	60	401	247.7
	180	350	250 H7	18	40	48 H7	300	6	110	19 (8x)	51.8	14 JS9	60	401	247.5
	200	400	300 H7	18	40	55 H7	350	6	110	19 (8x)	59.3	16 JS9	37	401	254
	225	450	350 H7	20	40	60 H7	400	6	140	19 (8x)	64.4	18 JS9	79	435	261.8
	250	550	450 H7	20	40	65 H7	500	6	140	19 (8x)	69.4	18 JS9	65	460	272.8
W02	160	350	250 H7	18	40	42 H7	300	6	110	19 (8x)	45.3	12 JS9	60	401	276.7
	180	350	250 H7	18	40	48 H7	300	6	110	19 (8x)	51.8	14 JS9	60	401	276.5
	200	400	300 H7	18	40	55 H7	350	6	110	19 (8x)	59.3	16 JS9	37	401	283
	225	450	350 H7	20	40	60 H7	400	6	140	19 (8x)	64.4	18 JS9	79	435	290.8
	250	550	450 H7	20	40	65 H7	500	6	140	19 (8x)	69.4	18 JS9	65	460	301.8
W03	200	400	300 H7	18	50	55 H7	350	6	110	19 (8x)	59.3	16 JS9	60	425	413.9
	225	450	350 H7	20	50	60 H7	400	6	140	19 (8x)	64.4	18 JS9	105	459	427.3
	250	550	450 H7	20	50	65 H7	500	6	140	19 (8x)	69.4	18 JS9	85	484	438.2
	280	650	450 H7	20	50	75 H7	500	6	139.5	19 (8x)	79.9	20 JS9	84	484	446.3
W04	200	400	300 H7	18	50	55 H7	350	6	110	19 (8x)	54.8	16 JS9	60	425	410.1
	225	450	350 H7	20	50	60 H7	400	6	140	19 (8x)	64.4	18 JS9	105	459	418.1
	250	550	450 H7	20	50	65 H7	500	6	140	19 (8x)	69.4	18 JS9	85	484	434.4
	280	650	450 H7	20	50	75 H7	500	6	139.5	19 (8x)	79.9	20 JS9	84	484	427.1
W05	250	550	450 H7	20	60	65 H7	500	6	140	19 (8x)	69.4	18 JS9	67	525	575
	280	550	450 H7	20	60	75 H7	500	6	140	19 (8x)	79.9	20 JS9	67	525	575
	315S-L	660	550 H7	20	60	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	555	600
W06	250	550	450 H7	20	60	65 H7	500	6	140	19 (8x)	69.4	18 JS9	67	525	642
	280	550	450 H7	20	60	75 H7	500	6	140	19 (8x)	79.9	20 JS9	67	525	642
	315S-L	660	550 H7	20	60	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	555	667
W07	250	550	450 H7	20	70	65 H7	500	6	140	19 (8x)	69.4	18 JS9	69.5	560	935
	280	550	450 H7	20	70	75 H7	500	6	140	19 (8x)	79.9	20 JS9	71.5	560	935
	315S-L	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	88	590	968
	315	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	88	590	968
	355	800	680 H7	20	70	100 H7	740	7	210	24 (8x)	106.4	28 JS9	113.5	650	1010
W08	250	550	450 H7	20	70	65 H7	500	6	140	19 (8x)	69.4	18 JS9	69.5	560	1040
	280	550	450 H7	20	70	75 H7	500	6	140	19 (8x)	79.9	20 JS9	71.5	560	1040
	315S-L	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	88	590	1073
	315	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	88	590	1073
	355	800	680 H7	20	70	100 H7	740	7	210	24 (8x)	106.4	28 JS9	113.5	650	1115
W09	315S-L	660	550 H7	20	80	80 H7	600	7	170	24 (8x)	85.4	22 JS9	90	650	1293
	315	660	550 H7	20	80	80 H7	600	7	170	24 (8x)	85.4	22 JS9	90	650	1293
	355	800	680 H7	20	80	100 H7	740	7	210	24 (8x)	106.4	28 JS9	106.5	710	1343
W10	315S-L	660	550 H7	20	80	80 H7	600	7	170	24 (8x)	85.4	22 JS9	90	650	1379
	315	660	550 H7	20	80	80 H7	600	7	170	24 (8x)	85.4	22 JS9	90	650	1379
	355	800	680 H7	20	80	100 H7	740	7	210	24 (8x)	106.4	28 JS9	106.5	710	1429
W11	315S-L	660	550 H7	20	95	80 H7	600	7	170	24 (8x)	85.4	22 JS9	86	670	1810
	315	660	550 H7	20	95	80 H7	600	7	170	24 (8x)	85.4	22 JS9	86	670	1810
	355	800	680 H7	20	95	100 H7	740	7	210	24 (8x)	106.4	28 JS9	126.5	730	1852
W12	315S-L	660	550 H7	20	95	80 H7	600	7	170	24 (8x)	85.4	22 JS9	86	670	1921
	315	660	550 H7	20	95	80 H7	600	7	170	24 (8x)	85.4	22 JS9	86	670	1921
	355	800	680 H7	20	95	100 H7	740	7	210	24 (8x)	106.4	28 JS9	126.5	730	1963
W13	315S-L	660	550 H7	20	105	80 H7	600	7	170	24 (8x)	85.4	22 JS9	74.5	735	2464
	315	660	550 H7	20	105	80 H7	600	7	170	24 (8x)	85.4	22 JS9	74.5	735	2464
	355	800	680 H7	20	105	100 H7	740	7	210	24 (8x)	106.4	28 JS9	111.5	795	2489
W14	315S-L	660	550 H7	20	105	80 H7	600	7	170	24 (8x)	85.4	22 JS9	74.5	735	2819
	315	660	550 H7	20	105	80 H7	600	7	170	24 (8x)	85.4	22 JS9	74.5	735	2819
	355	800	680 H7	20	105	100 H7	740	7	210	24 (8x)	106.4	28 JS9	111.5	795	2844
W15	355	800	680 H7	20	115	100 H7	740	7	210	24 (8x)	106.4	28 JS9	118	861	3295
W16	355	800	680 H7	20	115	100 H7	740	7	210	24 (8x)	106.4	28 JS9	118	861	3570

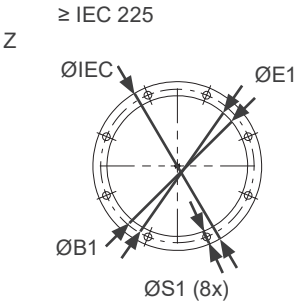
10.3.2 Parallel Shafts, 3 Stage







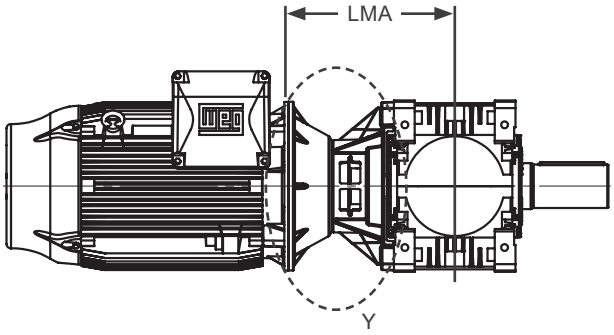
Detail Y

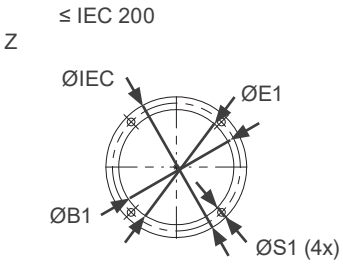


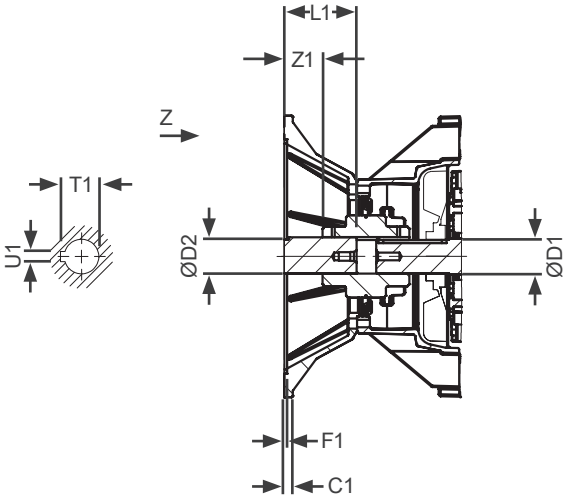
3 Stage	IEC	Ø IEC	Ø B1	C1	Ø D1	Ø D2	Ø E1	F1	L1	Ø S1	T1	U1	Z1	LMA	kg
W01	132	300	230 H7	14	32	38 H7	265	5	96.5	10.2 (4x)	41.3	10 JS9	41	333	194.8
	160	350	250 H7	18	32	42 H7	300	6	110	19 (4x)	45.3	12 JS9	60	383	208
	180	350	250 H7	18	32	48 H7	300	6	110	19 (4x)	51.8	14 JS9	60	383	257.8
	200	400	300 H7	18	32	55 H7	350	6	110	19 (4x)	59.3	16 JS9	37	383	214.4
	225	450	350 H7	20	32	60 H7	400	6	140	19 (4x)	43.3	12 JS9	79	417	222.2
W02	132	300	230 H7	14	40	38 H7	265	5	80	10.2 (4x)	41.3	10 JS9	41	351	263.4
	160	350	250 H7	18	40	42 H7	300	6	110	19 (4x)	45.3	12 JS9	72	401	274
	180	350	250 H7	18	40	48 H7	300	6	110	19 (4x)	51.8	14 JS9	70	401	273.8
	200	400	300 H7	18	40	55 H7	350	6	110	19 (4x)	59.3	16 JS9	45	401	280.4
	225	450	350 H7	20	40	60 H7	400	6	140	19 (4x)	64.4	18 JS9	75	435	288.2
W03	132	300	230 H7	14	38	38 H7	265	5	80	10.2 (4x)	41.3	10 JS9	14	358	377.5
	160	350	250 H7	18	38	42 H7	300	6	110	19 (4x)	45.3	12 JS9	60	408	386
	180	350	250 H7	18	38	48 H7	300	6	110	19 (4x)	51.8	14 JS9	60	408	385.8
	200	400	300 H7	18	38	55 H7	350	6	110	19 (4x)	59.3	16 JS9	60	408	386.7
	225	450	350 H7	20	38	60 H7	400	6	140	19 (4x)	64.4	18 JS9	75	442	400.2
	250	550	450 H7	20	38	65 H7	500	6	140	19 (4x)	69.4	18 JS9	65	467	411.7
	280	550	450 H7	20	38	75 H7	500	6	139.5	19 (4x)	79.9	20 JS9	4.5	467	437.8
W04	132	300	230 H7	14	38	38 H7	265	5	80	10.2 (4x)	41.3	10 JS9	10.5	358	421
	160	350	250 H7	18	38	42 H7	300	6	110	19 (4x)	45.3	12 JS9	56	408	469.1
	180	350	250 H7	18	38	48 H7	300	6	110	19 (4x)	45.3	12 JS9	56	408	429.5
	200	400	300 H7	18	38	55 H7	350	6	110	19 (4x)	59.3	16 JS9	41	408	434.2
	225	450	350 H7	14	38	60 H7	400	6	140	19 (4x)	64.4	18 JS9	66.5	442	445.8
	250	550	450 H7	20	38	65 H7	500	6	140	19 (4x)	69.4	18 JS9	71	467	453
	280	550	450 H7	20	38	75 H7	500	6	139.5	19 (4x)	79.9	20 JS9	50.5	467	459.5
W05	160	350	250 H7	18	45	42 H7	300	6	110	19 (4x)	45.3	12 JS9	71.5	451	577
	180	350	250 H7	18	45	48 H7	300	6	110	19 (4x)	51.8	14 JS9	71.5	451	577
	200	400	300 H7	20	45	55 H7	350	6	110	19 (4x)	59.3	16 JS9	60.5	451	582
	225	450	350 H7	20	45	60 H7	400	6	140	19 (8x)	64.4	18 JS9	67	485	593
	250	550	450 H7	20	45	65 H7	500	6	140	19 (8x)	69.4	18 JS9	79.5	510	607
	280	550	450 H7	20	45	75 H7	500	6	140	19 (8x)	79.9	20 JS9	79.5	510	607

3 Stage	IEC	Ø IEC	Ø B1	C1	Ø D1	Ø D2	Ø E1	F1	L1	Ø S1	T1	U1	Z1	LMA	kg
W06	160	350	250 H7	18	45	42 H7	300	6	110	19 (4x)	45.3	12 JS9	71.5	451	645
	180	350	250 H7	18	45	48 H7	300	6	110	19 (4x)	51.8	14 JS9	71.5	451	645
	200	400	300 H7	20	45	55 H7	350	6	110	19 (4x)	59.3	16 JS9	60.5	451	650
	225	450	350 H7	20	45	60 H7	400	6	140	19 (8x)	64.4	18 JS9	67	485	661
	250	550	450 H7	20	45	65 H7	500	6	140	19 (8x)	69.4	18 JS9	79.5	510	675
	280	550	450 H7	20	45	75 H7	500	6	140	19 (8x)	79.9	20 JS9	79.5	510	675
W07	160	350	250 H7	18	50	42 H7	300	6	110	19 (4x)	45.3	12 JS9	61	488	957
	180	350	250 H7	18	50	48 H7	300	6	110	19 (4x)	51.8	14 JS9	61	488	957
	200	400	300 H7	20	50	55 H7	350	6	110	19 (4x)	59.3	16 JS9	62.5	488	962
	225	450	350 H7	20	50	60 H7	400	6	140	19 (8x)	64.4	18 JS9	76.5	522	973
	250	550	450 H7	20	50	65 H7	500	6	140	19 (8x)	69.4	18 JS9	81.5	547	987
	280	550	450 H7	20	50	75 H7	500	6	140	19 (8x)	79.9	20 JS9	81.5	547	987
	315S-L	660	550 H7	20	50	80 H7	600	7	170	24 (8x)	85.4	22 JS9	73	577	1021
W08	160	350	250 H7	18	50	42 H7	300	6	110	19 (4x)	45.3	12 JS9	61	488	1066
	180	350	250 H7	18	50	48 H7	300	6	110	19 (4x)	51.8	14 JS9	61	488	1066
	200	400	300 H7	20	50	55 H7	350	6	110	19 (4x)	59.3	16 JS9	62.5	488	1071
	225	450	350 H7	20	50	60 H7	400	6	140	19 (8x)	64.4	18 JS9	76.5	522	1082
	250	550	450 H7	20	50	65 H7	500	6	140	19 (8x)	69.4	18 JS9	81.5	547	1096
	280	550	450 H7	20	50	75 H7	500	6	140	19 (8x)	79.9	20 JS9	81.5	547	1096
	315S-L	660	550 H7	20	50	80 H7	600	7	170	24 (8x)	85.4	22 JS9	73	577	1130
W09	200	400	300 H7	20	60	55 H7	350	6	110	19 (4x)	59.3	16 JS9	40.5	531	1357
	225	450	350 H7	20	60	60 H7	400	6	140	19 (8x)	64.4	18 JS9	62.5	565	1368
	250	550	450 H7	20	60	65 H7	500	6	140	19 (8x)	69.4	18 JS9	69.5	590	1382
	280	550	450 H7	20	60	75 H7	500	6	140	19 (8x)	79.9	20 JS9	59.5	590	1391
	315S-L	660	550 H7	20	60	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	620	1407
	315	660	550 H7	20	60	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	620	1407
W10	200	400	300 H7	20	60	55 H7	350	6	110	19 (4x)	59.3	16 JS9	40.5	531	1437
	225	450	350 H7	20	60	60 H7	400	6	140	19 (8x)	64.4	18 JS9	62.5	565	1448
	250	550	450 H7	20	60	65 H7	500	6	140	19 (8x)	69.4	18 JS9	69.5	590	1462
	280	550	450 H7	20	60	75 H7	500	6	140	19 (8x)	79.9	20 JS9	59.5	590	1471
	315S-L	660	550 H7	20	60	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	620	1487
	315	660	550 H7	20	60	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	620	1487
W11	225	450	350 H7	20	65	60 H7	400	6	140	19 (8x)	64.4	18 JS9	65.5	586	1932
	250	550	450 H7	20	65	65 H7	500	6	140	19 (8x)	69.4	18 JS9	70.5	611	1948
	280	550	450 H7	20	65	75 H7	500	6	140	19 (8x)	79.9	20 JS9	70.5	611	1957
	315S-L	660	550 H7	20	65	80 H7	600	7	170	24 (8x)	85.4	22 JS9	82	641	1982
	315	660	550 H7	20	65	80 H7	600	7	170	24 (8x)	85.4	22 JS9	82	641	1982
	355	800	680 H7	20	65	100 H7	740	7	210	24 (8x)	106.4	28 JS9	119	701	2025
W12	225	450	350 H7	20	65	60 H7	400	6	140	19 (8x)	64.4	18 JS9	65.5	586	2043
	250	550	450 H7	20	65	65 H7	500	6	140	19 (8x)	69.4	18 JS9	70.5	611	2059
	280	550	450 H7	20	65	75 H7	500	6	140	19 (8x)	79.9	20 JS9	70.5	611	2068
	315S-L	660	550 H7	20	65	80 H7	600	7	170	24 (8x)	85.4	22 JS9	82	641	2093
	315	660	550 H7	20	65	80 H7	600	7	170	24 (8x)	85.4	22 JS9	82	641	2093
	355	800	680 H7	20	65	100 H7	740	7	210	24 (8x)	106.4	28 JS9	119	701	2136
W13	250	550	450 H7	20	75	65 H7	500	6	140	19 (8x)	69.4	18 JS9	74.5	645	2593
	280	550	450 H7	20	75	75 H7	500	6	140	19 (8x)	79.9	20 JS9	66	645	2601
	315S-L	660	550 H7	20	75	80 H7	600	7	170	24 (8x)	85.4	22 JS9	86	675	2627
	315	660	550 H7	20	75	80 H7	600	7	170	24 (8x)	85.4	22 JS9	86	675	2670
	355	800	680 H7	20	75	100 H7	740	7	210	24 (8x)	106.4	28 JS9	121.5	735	2670
W14	250	550	450 H7	20	75	65 H7	500	6	140	19 (8x)	69.4	18 JS9	74.5	645	2970
	280	550	450 H7	20	75	75 H7	500	6	140	19 (8x)	79.9	20 JS9	66	645	2978
	315S-L	660	550 H7	20	75	80 H7	600	7	170	24 (8x)	85.4	22 JS9	86	675	3004
	315	660	550 H7	20	75	80 H7	600	7	170	24 (8x)	85.4	22 JS9	86	675	3047
	355	800	680 H7	20	75	100 H7	740	7	210	24 (8x)	106.4	28 JS9	121.5	735	3047
W15	250	550	450 H7	20	75	65 H7	500	6	140	19 (8x)	69.4	18 JS9	64.5	684	3467
	280	550	450 H7	20	75	75 H7	500	6	140	19 (8x)	79.9	20 JS9	69.5	684	3467
	315S-L	660	550 H7	20	75	80 H7	600	7	170	24 (8x)	85.4	22 JS9	85	714	3491
	315	660	550 H7	20	75	80 H7	600	7	170	24 (8x)	85.4	22 JS9	85	714	3491
	355	800	680 H7	20	75	100 H7	740	7	210	24 (8x)	106.4	28 JS9	133.5	774	3534
W16	250	550	450 H7	20	75	65 H7	500	6	140	19 (8x)	69.4	18 JS9	64.5	684	3732
	280	550	450 H7	20	75	75 H7	500	6	140	19 (8x)	79.9	20 JS9	69.5	684	3732
	315S-L	660	550 H7	20	75	80 H7	600	7	170	24 (8x)	85.4	22 JS9	85	714	3756
	315	660	550 H7	20	75	80 H7	600	7	170	24 (8x)	85.4	22 JS9	85	714	3756
	355	800	680 H7	20	75	100 H7	740	7	210	24 (8x)	106.4	28 JS9	133.5	774	3799

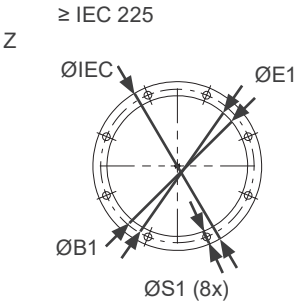
10.3.3 Parallel Shafts, 4 Stage







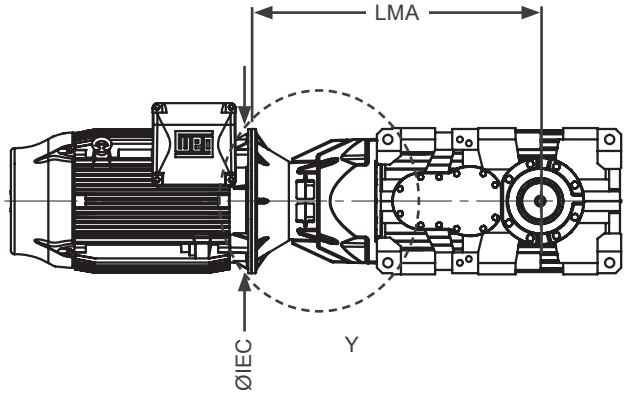
Detail Y

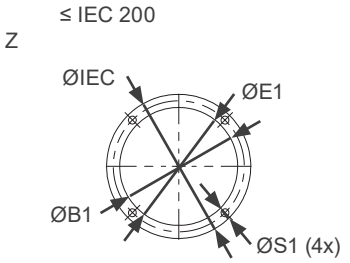


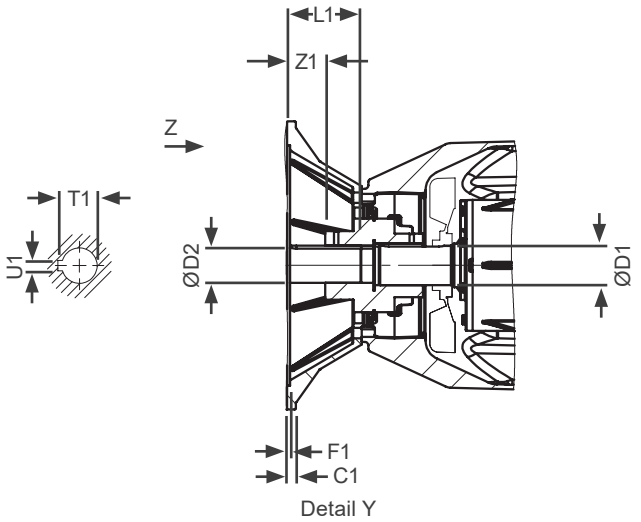
4 Stage	IEC	Ø IEC	Ø B1	C1	Ø D1	Ø D2	Ø E1	F1	L1	Ø S1	T1	U1	Z1	LMA	kg
W03	112	350	270 H7	18	25	28 H7	215	8	68	10.2 (4x)	27.3	8 JS9	21	326	401.5
	132	350	230 H7	18	25	38 H7	265	5	80	10.2 (4x)	41.3	10 JS9	44	326	400
	160	350	250 H7	18	25	42 H7	300	6	110	19 (4x)	45.8	14 JS9	87	303	408.3
	180	350	250 H7	18	25	48 H7	300	6	110	19 (4x)	45.8	14 JS9	87	408	408.3
W04	112	350	270 H7	18	25	28 H7	215	5	60	10.2 (4x)	27.3	8 JS9	13	326	424.5
	132	350	230 H7	18	25	38 H7	265	5	80	10.2 (4x)	41.3	8 JS9	44	326	423
	160	350	250 H7	18	25	42 H7	300	6	110	19 (4x)	45.8	14 JS9	87	408	431.4
	180	350	250 H7	18	25	48 H7	300	6	110	19 (4x)	45.8	14 JS9	87	408	431.4
W05	100	250	180 H7	18	30	28 H7	215	5	60	15 (4x)	31.3	8 JS9	34.5	379	570
	112	250	180 H7	18	30	28 H7	215	5	60	15 (4x)	31.3	8 JS9	34.5	379	570
	132	300	230 H7	18	30	38 H7	265	5	60	15 (4x)	41.3	10 JS9	42.5	400	571
	160	350	250 H7	18	30	42 H7	300	6	110	19 (4x)	45.3	12 JS9	77.5	451	580
	180	350	250 H7	18	30	48 H7	300	6	110	19 (4x)	51.8	14 JS9	77.5	451	580
	200	400	300 H7	20	30	55 H7	350	6	110	19 (4x)	59.3	16 JS9	65	451	585
W06	100	250	180 H7	18	30	28 H7	215	5	60	15 (4x)	31.3	8 JS9	34.5	379	644
	112	250	180 H7	18	30	28 H7	215	5	60	15 (4x)	31.3	8 JS9	34.5	379	644
	132	300	230 H7	18	30	38 H7	265	5	60	15 (4x)	41.3	10 JS9	42.5	400	645
	160	350	250 H7	18	30	42 H7	300	6	110	19 (4x)	45.3	12 JS9	77.5	451	654
	180	350	250 H7	18	30	48 H7	300	6	110	19 (4x)	51.8	14 JS9	77.5	451	654
	200	400	300 H7	20	30	55 H7	350	6	110	19 (4x)	59.3	16 JS9	65	451	659
W07	132	300	230 H7	18	35	38 H7	265	5	60	15 (4x)	41.3	10 JS9	46	437	963
	160	350	250 H7	18	35	42 H7	300	6	110	19 (4x)	45.3	12 JS9	75.5	488	972
	180	350	250 H7	18	35	48 H7	300	6	110	19 (4x)	51.8	14 JS9	75.5	488	972
	200	400	300 H7	20	35	55 H7	350	6	110	19 (4x)	59.3	16 JS9	66	488	977
	225	450	350 H7	20	35	60 H7	400	6	140	19 (8x)	64.4	18 JS9	89	522	989
	250	550	450 H7	20	35	65 H7	500	6	140	19 (8x)	69.4	18 JS9	90.5	547	1003
	280	550	450 H7	20	35	75 H7	500	6	140	19 (8x)	79.9	20 JS9	90.5	547	1012

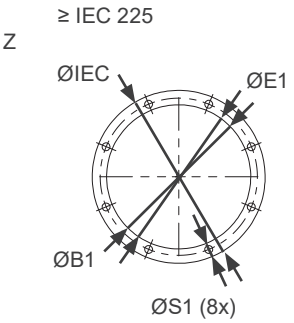
4 Stage	IEC	Ø IEC	Ø B1	C1	Ø D1	Ø D2	Ø E1	F1	L1	Ø S1	T1	U1	Z1	LMA	kg
W08	132	300	230 H7	18	35	38 H7	265	5	60	15 (4x)	41.3	10 JS9	46	437	1072
	160	350	250 H7	18	35	42 H7	300	6	110	19 (4x)	45.3	12 JS9	75.5	488	1081
	180	350	250 H7	18	35	48 H7	300	6	110	19 (4x)	51.8	14 JS9	75.5	488	1081
	200	400	300 H7	20	35	55 H7	350	6	110	19 (4x)	59.3	16 JS9	66	488	1086
	225	450	350 H7	20	35	60 H7	400	6	140	19 (8x)	64.4	18 JS9	89	522	1098
	250	550	450 H7	20	35	65 H7	500	6	140	19 (8x)	69.4	18 JS9	90.5	547	1112
	280	550	450 H7	20	35	75 H7	500	6	140	19 (8x)	79.9	20 JS9	90.5	547	1121
W09	160	350	250 H7	18	40	42 H7	300	6	110	19 (4x)	45.3	12 JS9	72.5	531	1366
	180	350	250 H7	18	40	48 H7	300	6	110	19 (4x)	51.8	14 JS9	72.5	531	1366
	200	400	300 H7	20	40	55 H7	350	6	110	19 (4x)	59.3	16 JS9	53	531	1370
	225	450	350 H7	20	40	60 H7	400	6	140	19 (8x)	64.4	18 JS9	77	565	1382
	250	550	450 H7	20	40	65 H7	500	6	140	19 (8x)	69.4	18 JS9	77	590	1396
	280	550	450 H7	20	40	75 H7	500	6	140	19 (8x)	79.9	20 JS9	67	590	1405
W10	160	350	250 H7	18	40	42 H7	300	6	110	19 (4x)	45.3	12 JS9	72.5	531	1446
	180	350	250 H7	18	40	48 H7	300	6	110	19 (4x)	51.8	14 JS9	72.5	531	1446
	200	400	300 H7	20	40	55 H7	350	6	110	19 (4x)	59.3	16 JS9	53	531	1450
	225	450	350 H7	20	40	60 H7	400	6	140	19 (8x)	64.4	18 JS9	77	565	1462
	250	550	450 H7	20	40	65 H7	500	6	140	19 (8x)	69.4	18 JS9	77	590	1476
	280	550	450 H7	20	40	75 H7	500	6	140	19 (8x)	79.9	20 JS9	67	590	1485
W11	160	350	250 H7	18	45	42 H7	300	6	110	19 (4x)	45.3	12 JS9	73.5	554	1921
	180	350	250 H7	18	45	48 H7	300	6	110	19 (4x)	51.8	14 JS9	73.5	554	1921
	200	400	300 H7	20	45	55 H7	350	6	110	19 (4x)	59.3	16 JS9	59	552	1925
	225	450	350 H7	20	45	60 H7	400	6	140	19 (8x)	64.4	18 JS9	78	586	1937
	250	550	450 H7	20	45	65 H7	500	6	140	19 (8x)	69.4	18 JS9	88	611	1951
	280	550	450 H7	20	45	75 H7	500	6	140	19 (8x)	79.9	20 JS9	83	611	1960
W12	160	350	250 H7	18	45	42 H7	300	6	110	19 (4x)	45.3	12 JS9	73.5	554	2032
	180	350	250 H7	18	45	48 H7	300	6	110	19 (4x)	51.8	14 JS9	73.5	554	2032
	200	400	300 H7	20	45	55 H7	350	6	110	19 (4x)	59.3	16 JS9	59	552	2036
	225	450	350 H7	20	45	60 H7	400	6	140	19 (8x)	64.4	18 JS9	78	586	2048
	250	550	450 H7	20	45	65 H7	500	6	140	19 (8x)	69.4	18 JS9	88	611	2062
	280	550	450 H7	20	45	75 H7	500	6	140	19 (8x)	79.9	20 JS9	83	611	2071
W13	160	350	250 H7	18	55	42 H7	300	6	110	19 (4x)	45.3	12 JS9	63	586	2588
	180	350	250 H7	18	55	48 H7	300	6	110	19 (4x)	51.8	14 JS9	63	586	2588
	200	400	300 H7	20	55	55 H7	350	6	110	19 (4x)	59.3	16 JS9	63	586	2589
	225	450	350 H7	20	55	60 H7	400	6	140	19 (8x)	64.4	18 JS9	77	620	2601
	250	550	450 H7	20	55	65 H7	500	6	140	19 (8x)	69.4	18 JS9	95	645	2615
	280	550	450 H7	20	55	75 H7	500	6	140	19 (8x)	79.9	20 JS9	82	645	2623
	315S-L	660	550 H7	20	55	80 H7	600	7	170	24 (8x)	85.4	22 JS9	98	675	2648
W14	160	350	250 H7	18	55	42 H7	300	6	110	19 (4x)	45.3	12 JS9	63	586	2965
	180	350	250 H7	18	55	48 H7	300	6	110	19 (4x)	51.8	14 JS9	63	586	2965
	200	400	300 H7	20	55	55 H7	350	6	110	19 (4x)	59.3	16 JS9	63	586	2966
	225	450	350 H7	20	55	60 H7	400	6	140	19 (8x)	64.4	18 JS9	77	620	2978
	250	550	450 H7	20	55	65 H7	500	6	140	19 (8x)	69.4	18 JS9	95	645	2992
	280	550	450 H7	20	55	75 H7	500	6	140	19 (8x)	79.9	20 JS9	82	645	3000
	315S-L	660	550 H7	20	55	80 H7	600	7	170	24 (8x)	85.4	22 JS9	98	675	3025
W15	200	400	300 H7	20	60	55 H7	350	6	110	19 (4x)	59.3	16 JS9	52	625	3426
	225	450	350 H7	20	60	60 H7	400	6	140	19 (8x)	64.4	18 JS9	66	659	3437
	250	550	450 H7	20	60	65 H7	500	6	140	19 (8x)	69.4	18 JS9	81	684	3451
	280	550	450 H7	20	60	75 H7	500	6	140	19 (8x)	79.9	20 JS9	71	684	3461
	315S-L	660	550 H7	20	60	80 H7	600	7	170	24 (8x)	85.4	22 JS9	92	714	3485
W16	200	400	300 H7	20	60	55 H7	350	6	110	19 (4x)	59.3	16 JS9	52	625	3691
	225	450	350 H7	20	60	60 H7	400	6	140	19 (8x)	64.4	18 JS9	66	659	3702
	250	550	450 H7	20	60	65 H7	500	6	140	19 (8x)	69.4	18 JS9	81	684	3716
	280	550	450 H7	20	60	75 H7	500	6	140	19 (8x)	79.9	20 JS9	71	684	3726
	315S-L	660	550 H7	20	60	80 H7	600	7	170	24 (8x)	85.4	22 JS9	92	714	3750

10.3.4 Right Angle Shafts K, 2 Stages



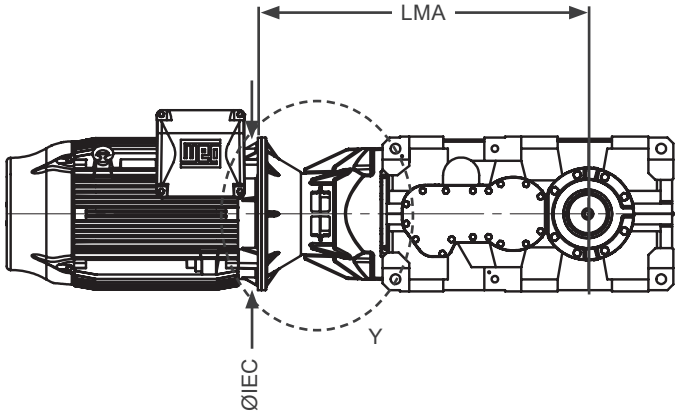


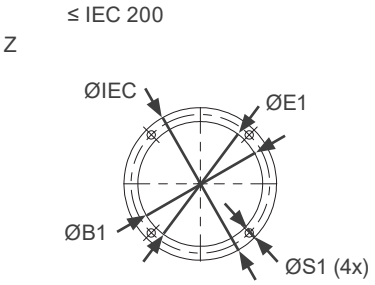


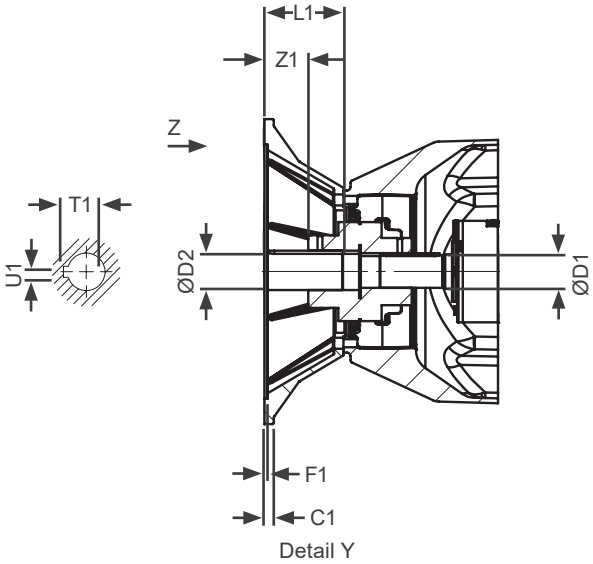


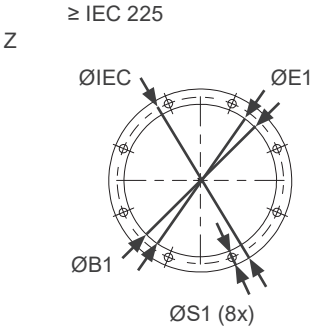
2 Stage	IEC	Ø IEC	Ø B1	C1	Ø D1	Ø D2	Ø E1	F1	L1	Ø S1	T1	U1	Z1	LMA	kg
W01	200	400	300 H7	18	45	55 H7	350	6	110	19 (8x)	59.3	16 JS9	53.5	796	277
	225	450	350 H7	20	45	60 H7	400	6	140	19 (8x)	64.4	18 JS9	77.5	830	285.4
	250	550	450 H7	20	45	65 H7	500	6	140	19 (8x)	69.4	18 JS9	55	855	299.7
W02	200	400	300 H7	18	45	55 H7	350	6	110	19 (8x)	59.3	16 JS9	53.5	830	305.8
	225	450	350 H7	20	45	60 H7	400	6	140	19 (8x)	64.4	18 JS9	77.5	864	314.1
	250	550	450 H7	20	45	65 H7	500	5	140	19 (8x)	69.4	18 JS9	55	889	328.5
W03	225	450	350 H7	20	55	60 H7	400	6	140	19 (8x)	64.4	18 JS9	51	896	462.3
	250	550	450 H7	20	55	65 H7	500	6	140	19 (8x)	69.4	18 JS9	61	921	466.3
	280	550	450 H7	20	55	75 H7	500	6	139.5	19 (8x)	79.9	20 JS9	60.75	921	465.5
W04	225	450	350 H7	20	55	60 H7	400	6	140	19 (8x)	64.4	18 JS9	51	935	460.6
	250	550	450 H7	20	55	65 H7	500	6	140	19 (8x)	69.4	18 JS9	61	960	464.5
	280	550	450 H7	20	55	75 H7	500	6	139.5	19 (8x)	79.9	20 JS9	60.75	960	463.8
W05	250	550	450 H7	20	70	65 H7	500	6	140	19 (8x)	69.4	18 JS9	68	1026	637
	280	550	450 H7	20	70	75 H7	500	6	140	19 (8x)	79.9	20 JS9	58	1026	637
	315S-L	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	88	1056	662
W06	250	550	450 H7	20	70	65 H7	500	6	140	19 (8x)	69.4	18 JS9	68	1072	704
	280	550	450 H7	20	70	75 H7	500	6	140	19 (8x)	79.9	20 JS9	58	1072	704
	315S-L	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	88	1102	729
W07	315S-L	660	550 H7	20	80	80 H7	600	7	170	24 (8x)	85.4	22 JS9	76	1194	1037
	315	660	550 H7	20	80	80 H7	600	7	170	24 (8x)	85.4	22 JS9	76	1194	1037
	355	800	680 H7	20	80	100 H7	740	7	210	24 (8x)	106.4	28 JS9	124.5	1254	1080
W08	315S-L	660	550 H7	20	80	80 H7	600	7	170	24 (8x)	85.4	22 JS9	76	1248	1142
	315	660	550 H7	20	80	80 H7	600	7	170	24 (8x)	85.4	22 JS9	76	1248	1142
	355	800	680 H7	20	80	100 H7	740	7	210	24 (8x)	106.4	28 JS9	124.5	1308	1185
W09	315S-L	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	1322	1404
	315	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	1322	1404
	355	800	680 H7	20	90	100 H7	740	7	210	24 (8x)	106.4	28 JS9	100.5	1382	1411
W10	315S-L	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	1354	1490
	315	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	1354	1490
	355	800	680 H7	20	90	100 H7	740	7	210	24 (8x)	106.4	28 JS9	100.5	1414	1497
W11	315	660	550 H7	20	100	80 H7	600	7	170	24 (8x)	85.4	22 JS9	61.5	1475	1963
	355	800	680 H7	20	100	100 H7	740	7	210	24 (8x)	106.4	28 JS9	111.5	1535	1988
W12	315	660	550 H7	20	100	80 H7	600	7	170	24 (8x)	85.4	22 JS9	61.5	1510	2074
	355	800	680 H7	20	100	100 H7	740	7	210	24 (8x)	106.4	28 JS9	111.5	1570	2099
W13	355	800	680 H7	20	120	100 H7	740	7	210	24 (8x)	106.4	28 JS9	97.5	1658	2698
W14	355	800	680 H7	20	120	100 H7	740	7	210	24 (8x)	106.4	28 JS9	97.5	1699	3053

10.3.5 Right Angle Shafts K, 3 Stages







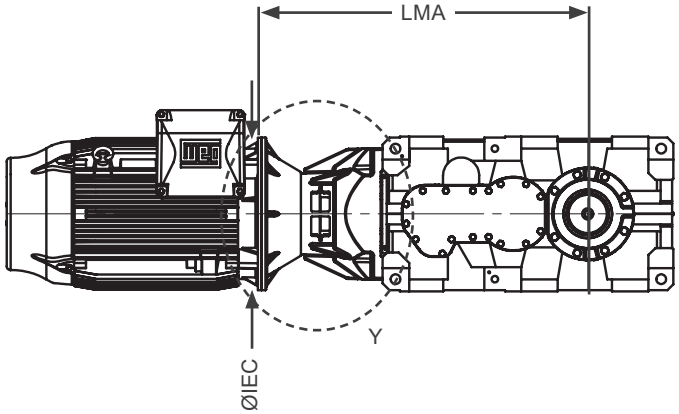


3 Stage	IEC	Ø IEC	Ø B1	C1	Ø D1	Ø D2	Ø E1	F1	L1	Ø S1	T1	U1	Z1	LMA	kg
W01	132	300	230 H7	32	32	38 H7	265	6	80	10.2 (4x)	41.3	18 JS9	48	746	266.8
	160	350	250 H7	18	32	42 H7	300	6	110	19 (4x)	45.3	12 JS9	77.5	796	273.7
	180	350	250 H7	18	32	48 H7	300	6	110	19 (4x)	51.8	14 JS9	77.5	796	273.5
	200	400	300 H7	18	32	55 H7	350	6	110	19 (4x)	59.3	16 JS9	53.5	796	278.5
	225	450	350 H7	20	32	60 H7	400	6	140	19 (4x)	64.4	18 JS9	82	830	290.13
W02	132	300	230 H7	32	32	38 H7	265	5	80	10.2 (4x)	41.3	18 JS9	48	780	295.3
	160	350	250 H7	18	32	42 H7	300	6	110	19 (4x)	45.3	12 JS9	77.5	830	302.1
	180	350	250 H7	18	32	48 H7	300	6	110	19 (4x)	51.8	14 JS9	77.5	830	302
	200	400	300 H7	18	32	55 H7	350	6	110	19 (4x)	59.3	16 JS9	53.5	830	306.9
	225	450	350 H7	20	32	60 H7	400	6	140	19 (4x)	64.4	18 JS9	82	864	318.6
W03	132	300	230 H7	32	38	38 H7	265	5	80	10.2 (4x)	41.3	10 JS9	25.5	829	394
	160	350	250 H7	18	38	42 H7	300	6	110	19 (4x)	45.3	12 JS9	61	879	402.6
	180	350	250 H7	18	38	48 H7	300	6	110	19 (4x)	45.3	12 JS9	61	879	402.55
	200	400	300 H7	18	38	55 H7	350	6	110	19 (4x)	59.3	16 JS9	51	879	407.2
	225	450	350 H7	20	38	60 H7	400	6	140	19 (4x)	64.4	18 JS9	62	913	418.9
	250	550	450 H7	20	38	65 H7	500	6	140	19 (4x)	69.4	18 JS9	82	938	426
	280	550	450 H7	20	38	75 H7	500	6	139.5	19 (4x)	79.9	20 JS9	81.5	938	432.6
W04	132	300	230 H7	32	38	38 H7	265	5	80	10.2 (4x)	41.3	10 JS9	25.5	868	435.2
	160	350	250 H7	18	38	42 H7	300	6	110	19 (4x)	45.3	12 JS9	61	918	443.7
	180	350	250 H7	18	38	48 H7	300	6	110	19 (4x)	45.3	12 JS9	61	918	443.7
	200	400	300 H7	18	38	55 H7	350	6	110	19 (4x)	59.3	16 JS9	51	918	448.4
	225	450	350 H7	20	38	60 H7	400	6	140	19 (4x)	64.4	18 JS9	62	952	460
	250	550	450 H7	20	38	65 H7	500	6	140	19 (4x)	69.4	18 JS9	82	977	467.2
	280	550	450 H7	20	38	75 H7	500	6	139.5	19 (4x)	79.9	20 JS9	81.5	977	473.8

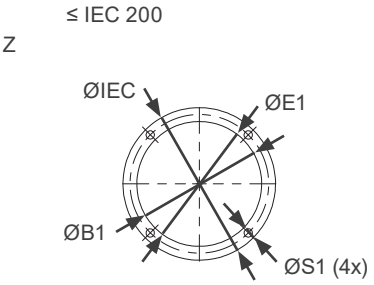
ACCESSORIES - ADDITIONAL DIMENSIONS

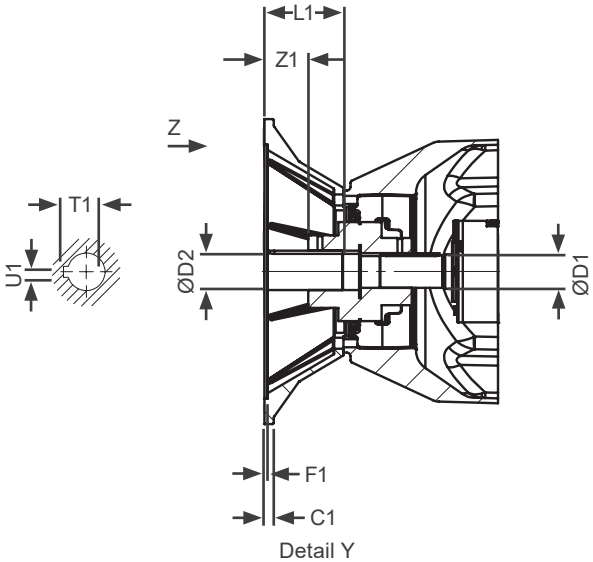
3 Stage	IEC	Ø IEC	Ø B1	C1	Ø D1	Ø D2	Ø E1	F1	L1	Ø S1	T1	U1	Z1	LMA	kg
W05	160	350	250 H7	18	45	42 H7	300	6	110	19 (4x)	45.3	12 JS9	70.5	1023	598
	180	350	250 H7	18	45	48 H7	300	6	110	19 (4x)	51.8	14 JS9	70.5	1023	598
	200	400	300 H7	20	45	55 H7	350	6	110	19 (4x)	59.3	16 JS9	51.5	1023	603
	225	450	350 H7	20	45	60 H7	400	6	140	19 (8x)	64.4	18 JS9	66	1057	615
	250	550	450 H7	20	45	65 H7	500	6	140	19 (8x)	69.4	18 JS9	78.5	1082	629
	280	550	450 H7	20	45	75 H7	500	6	140	19 (8x)	79.9	20 JS9	78.5	1082	629
	315S-L	660	550 H7	20	45	80 H7	600	7	170	24 (8x)	85.4	22 JS9	88.5	1112	654
W06	160	350	250 H7	18	45	42 H7	300	6	110	19 (4x)	45.3	12 JS9	70.5	1069	672
	180	350	250 H7	18	45	48 H7	300	6	110	19 (4x)	51.8	14 JS9	70.5	1069	672
	200	400	300 H7	20	45	55 H7	350	6	110	19 (4x)	59.3	16 JS9	51.5	1069	677
	225	450	350 H7	20	45	60 H7	400	6	140	19 (8x)	64.4	18 JS9	66	1103	689
	250	550	450 H7	20	45	65 H7	500	6	140	19 (8x)	69.4	18 JS9	78.5	1128	703
	280	550	450 H7	20	45	75 H7	500	6	140	19 (8x)	79.9	20 JS9	78.5	1128	703
	315S-L	660	550 H7	20	45	80 H7	600	7	170	24 (8x)	85.4	22 JS9	88.5	1158	728
W07	200	400	300 H7	20	55	55 H7	350	6	110	19 (4x)	59.3	16 JS9	59	1152	997
	225	450	350 H7	20	55	60 H7	400	6	140	19 (8x)	64.4	18 JS9	83	1186	1008
	250	550	450 H7	20	55	65 H7	500	6	140	19 (8x)	69.4	18 JS9	85	1211	1023
	280	550	450 H7	20	55	75 H7	500	6	140	19 (8x)	79.9	20 JS9	75.5	1211	1032
	315S-L	660	550 H7	20	55	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	1241	1057
	315	660	550 H7	20	55	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	1241	1057
W08	200	400	300 H7	20	55	55 H7	350	6	110	19 (4x)	59.3	16 JS9	59	1206	1106
	225	450	350 H7	20	55	60 H7	400	6	140	19 (8x)	64.4	18 JS9	83	1240	1117
	250	550	450 H7	20	55	65 H7	500	6	140	19 (8x)	69.4	18 JS9	85	1265	1132
	280	550	450 H7	20	55	75 H7	500	6	140	19 (8x)	79.9	20 JS9	75.5	1265	1141
	315S-L	660	550 H7	20	55	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	1295	1166
	315	660	550 H7	20	55	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	1295	1166
W09	225	450	350 H7	20	70	60 H7	400	6	140	19 (8x)	64.4	18 JS9	76	1352	1426
	250	550	450 H7	20	70	65 H7	500	6	140	19 (8x)	69.4	18 JS9	86	1377	1440
	280	550	450 H7	20	70	75 H7	500	6	140	19 (8x)	79.9	20 JS9	81	1377	1449
	315S-L	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	97	1407	1474
	315	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	97	1407	1474
	355	800	680 H7	20	70	100 H7	740	7	210	24 (8x)	106.4	28 JS9	124.5	1467	1517
W10	225	450	350 H7	20	70	60 H7	400	6	140	19 (8x)	64.4	18 JS9	76	1384	1506
	250	550	450 H7	20	70	65 H7	500	6	140	19 (8x)	69.4	18 JS9	86	1409	1520
	280	550	450 H7	20	70	75 H7	500	6	140	19 (8x)	79.9	20 JS9	81	1409	1529
	315S-L	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	97	1439	1554
	315	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	97	1439	1554
	355	800	680 H7	20	70	100 H7	740	7	210	24 (8x)	106.4	28 JS9	124.5	1499	1597
W11	250	550	450 H7	20	80	65 H7	500	6	140	19 (8x)	69.4	18 JS9	87	1542	2019
	280	550	450 H7	20	80	75 H7	500	6	140	19 (8x)	79.9	20 JS9	77	1542	2028
	315S-L	660	550 H7	20	80	80 H7	600	7	170	24 (8x)	85.4	22 JS9	93	1572	2052
	315	660	550 H7	20	80	80 H7	600	7	170	24 (8x)	85.4	22 JS9	93	1572	2052
	355	800	680 H7	20	80	100 H7	740	7	210	24 (8x)	106.4	28 JS9	131.5	1632	2095
W12	250	550	450 H7	20	80	65 H7	500	6	140	19 (8x)	69.4	18 JS9	87	1577	2130
	280	550	450 H7	20	80	75 H7	500	6	140	19 (8x)	79.9	20 JS9	77	1577	2139
	315S-L	660	550 H7	20	80	80 H7	600	7	170	24 (8x)	85.4	22 JS9	93	1607	2163
	315	660	550 H7	20	80	80 H7	600	7	170	24 (8x)	85.4	22 JS9	93	1607	2163
	355	800	680 H7	20	80	100 H7	740	7	210	24 (8x)	106.4	28 JS9	131.5	1667	2206
W13	250	550	450 H7	20	90	65 H7	500	6	140	19 (8x)	69.4	18 JS9	78	1723	2709
	280	550	450 H7	20	90	75 H7	500	6	140	19 (8x)	79.9	20 JS9	78	1723	2709
	315S-L	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	99	1753	2733
	315	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	99	1753	2733
	355	800	680 H7	20	90	100 H7	740	7	210	24 (8x)	106.4	28 JS9	137.5	1813	2776
W14	250	550	450 H7	20	90	65 H7	500	6	140	19 (8x)	69.4	18 JS9	78	1763	3086
	280	550	450 H7	20	90	75 H7	500	6	140	19 (8x)	79.9	20 JS9	78	1763	3086
	315S-L	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	99	1793	3110
	315	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	99	1793	3110
	355	800	680 H7	20	90	100 H7	740	7	210	24 (8x)	106.4	28 JS9	137.5	1853	3153
W15	315S-L	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	99	1807	3541
	315	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	99	1807	3541
	355	800	680 H7	20	90	100 H7	740	7	210	24 (8x)	106.4	28 JS9	137.5	1867	3583
W16	315S-L	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	99	1847	3805
	315	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	99	1847	3805
	355	800	680 H7	20	90	100 H7	740	7	210	24 (8x)	106.4	28 JS9	137.5	1907	3847

10.3.6 Right Angle Shafts K, 4 Stages

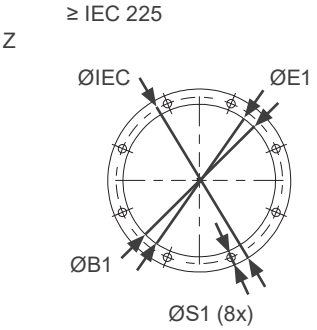


≤ IEC 200





≥ IEC 225

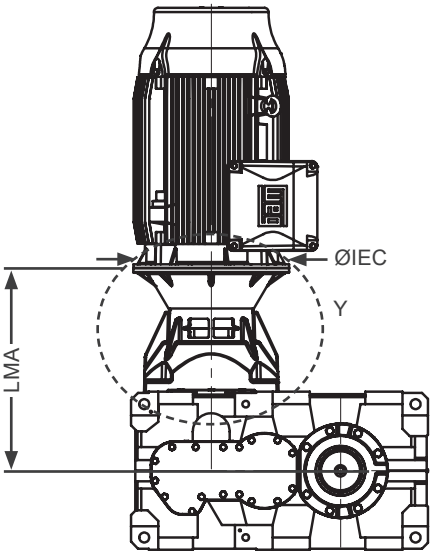


4 Stage	IEC	Ø IEC	Ø B1	C1	Ø D1	Ø D2	Ø E1	F1	L1	Ø S1	T1	U1	Z1	LMA	kg
W03	112	350	180 H7	18	28	28 H7	215	5	55	10.2 (4x)	31.3	8 JS9	26	797	373.4
	132	350	230 H7	18	28	38 H7	265	5	80	10.2 (4x)	41.3	10 JS9	51	829	373.8
	160	350	250 H7	18	28	42 H7	300	6	110	19 (4x)	45.8	14 JS9	87.5	879	382.2
	180	350	250 H7	18	28	48 H7	300	6	110	19 (4x)	45.8	14 JS9	87.5	879	382.2
W04	112	350	180 H7	18	28	28 H7	215	5	60	10.2 (4x)	31.3	8 JS9	31	836	410.6
	132	350	230 H7	18	28	38 H7	265	5	80	10.2 (4x)	41.3	10 JS9	51	836	410.9
	160	350	250 H7	18	28	42 H7	300	6	110	19 (4x)	45.8	14 JS9	87.5	918	419.4
	180	350	250 H7	18	28	48 H7	300	6	110	19 (4x)	45.8	14 JS9	87.5	918	419.4
W05	100	250	180 H7	18	32	28 H7	215	5	60	15 (4x)	31.3	8 JS9	34	951	582
	112	250	180 H7	18	32	28 H7	215	5	60	15 (4x)	31.3	8 JS9	34	951	582
	132	300	230 H7	18	32	38 H7	265	5	60	15 (4x)	41.3	10 JS9	36.5	972	582
	160	350	250 H7	18	32	42 H7	300	6	110	19 (4x)	45.3	12 JS9	80	1023	593
	180	350	250 H7	18	32	48 H7	300	6	110	19 (4x)	51.8	14 JS9	80	1023	593
	200	400	300 H7	20	32	55 H7	350	6	110	19 (4x)	59.3	16 JS9	59	1023	598
W06	100	250	180 H7	18	32	28 H7	215	5	60	15 (4x)	31.3	8 JS9	34	997	656
	112	250	180 H7	18	32	28 H7	215	5	60	15 (4x)	31.3	8 JS9	34	997	656
	132	300	230 H7	18	32	38 H7	265	5	60	15 (4x)	41.3	10 JS9	36.5	1018	656
	160	350	250 H7	18	32	42 H7	300	6	110	19 (4x)	45.3	12 JS9	80	1069	667
	180	350	250 H7	18	32	48 H7	300	6	110	19 (4x)	51.8	14 JS9	80	1069	667
	200	400	300 H7	20	32	55 H7	350	6	110	19 (4x)	59.3	16 JS9	59	1069	672
W07	132	300	230 H7	18	38	38 H7	265	5	60	15 (4x)	41.3	10 JS9	31.5	1101	981
	160	350	250 H7	18	38	42 H7	300	6	110	19 (4x)	45.3	12 JS9	64	1152	991
	180	350	250 H7	18	38	48 H7	300	6	110	19 (4x)	51.8	14 JS9	64	1152	991
	200	400	300 H7	20	38	55 H7	350	6	110	19 (4x)	59.3	16 JS9	54	1152	996
	225	450	350 H7	20	38	60 H7	400	6	140	19 (8x)	64.4	18 JS9	78	1186	1007

ACCESSORIES - ADDITIONAL DIMENSIONS

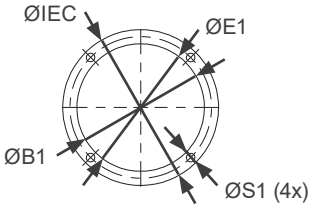
4 Stage	IEC	Ø IEC	Ø B1	C1	Ø D1	Ø D2	Ø E1	F1	L1	Ø S1	T1	U1	Z1	LMA	kg
W08	132	300	230 H7	18	38	38 H7	265	5	60	15 (4x)	41.3	10 JS9	31.5	1155	1090
	160	350	250 H7	18	38	42 H7	300	6	110	19 (4x)	45.3	12 JS9	64	1206	1100
	180	350	250 H7	18	38	48 H7	300	6	110	19 (4x)	51.8	14 JS9	64	1206	1100
	200	400	300 H7	20	38	55 H7	350	6	110	19 (4x)	59.3	16 JS9	54	1206	1105
	225	450	350 H7	20	38	60 H7	400	6	140	19 (8x)	64.4	18 JS9	78	1240	1116
W09	160	350	250 H7	18	45	42 H7	300	6	110	19 (4x)	45.3	12 JS9	49.5	1318	1406
	180	350	250 H7	18	45	48 H7	300	6	110	19 (4x)	51.8	14 JS9	49.5	1318	1406
	200	400	300 H7	20	45	55 H7	350	6	110	19 (4x)	59.3	16 JS9	39.5	1318	1411
	225	450	350 H7	20	45	60 H7	400	6	140	19 (8x)	64.4	18 JS9	63.5	1352	1422
	250	550	450 H7	20	45	65 H7	500	6	140	19 (8x)	69.4	18 JS9	66	1377	1436
	280	550	450 H7	20	45	75 H7	500	6	140	19 (8x)	79.9	20 JS9	56	1377	1445
W10	160	350	250 H7	18	45	42 H7	300	6	110	19 (4x)	45.3	12 JS9	49.5	1350	1486
	180	350	250 H7	18	45	48 H7	300	6	110	19 (4x)	51.8	14 JS9	49.5	1350	1486
	200	400	300 H7	20	45	55 H7	350	6	110	19 (4x)	59.3	16 JS9	39.5	1350	1491
	225	450	350 H7	20	45	60 H7	400	6	140	19 (8x)	64.4	18 JS9	63.5	1384	1502
	250	550	450 H7	20	45	65 H7	500	6	140	19 (8x)	69.4	18 JS9	66	1409	1516
	280	550	450 H7	20	45	75 H7	500	6	140	19 (8x)	79.9	20 JS9	56	1409	1525
W11	160	350	250 H7	18	55	42 H7	300	6	110	19 (4x)	45.3	12 JS9	58	1483	1980
	180	350	250 H7	18	55	48 H7	300	6	110	19 (4x)	51.8	14 JS9	58	1483	1980
	200	400	300 H7	20	55	55 H7	350	6	110	19 (4x)	59.3	16 JS9	53	1483	1984
	225	450	350 H7	20	55	60 H7	400	6	140	19 (8x)	64.4	18 JS9	77	1517	1996
	250	550	450 H7	20	55	65 H7	500	6	140	19 (8x)	69.4	18 JS9	82	1542	2010
	280	550	450 H7	20	55	75 H7	500	6	140	19 (8x)	79.9	20 JS9	72	1542	2019
	315S-L	660	550 H7	20	55	80 H7	600	7	170	24 (8x)	85.4	22 JS9	93	1572	2044
W12	160	350	250 H7	18	55	42 H7	300	6	110	19 (4x)	45.3	12 JS9	58	1518	2091
	180	350	250 H7	18	55	48 H7	300	6	110	19 (4x)	51.8	14 JS9	58	1518	2091
	200	400	300 H7	20	55	55 H7	350	6	110	19 (4x)	59.3	16 JS9	53	1518	2095
	225	450	350 H7	20	55	60 H7	400	6	140	19 (8x)	64.4	18 JS9	77	1552	2107
	250	550	450 H7	20	55	65 H7	500	6	140	19 (8x)	69.4	18 JS9	82	1577	2121
	280	550	450 H7	20	55	75 H7	500	6	140	19 (8x)	79.9	20 JS9	72	1577	2130
	315S-L	660	550 H7	20	55	80 H7	600	7	170	24 (8x)	85.4	22 JS9	93	1607	2155
W13	160	350	250 H7	18	70	42 H7	300	6	110	19 (4x)	45.3	12 JS9	29	1664	2682
	180	350	250 H7	18	70	48 H7	300	6	110	19 (4x)	51.8	14 JS9	29	1664	2682
	200	400	300 H7	20	70	55 H7	350	6	110	19 (4x)	59.3	16 JS9	36.5	1664	2682
	225	450	350 H7	20	70	60 H7	400	6	140	19 (8x)	64.4	18 JS9	63	1698	2690
	250	550	450 H7	20	70	65 H7	500	6	140	19 (8x)	69.4	18 JS9	63	1723	2704
	280	550	450 H7	20	70	75 H7	500	6	140	19 (8x)	79.9	20 JS9	58	1723	2713
	315S-L	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	79	1753	2738
W14	160	350	250 H7	18	70	42 H7	300	6	110	19 (4x)	45.3	12 JS9	29	1704	3059
	180	350	250 H7	18	70	48 H7	300	6	110	19 (4x)	51.8	14 JS9	29	1704	3059
	200	400	300 H7	20	70	55 H7	350	6	110	19 (4x)	59.3	16 JS9	36.5	1704	3059
	225	450	350 H7	20	70	60 H7	400	6	140	19 (8x)	64.4	18 JS9	63	1738	3067
	250	550	450 H7	20	70	65 H7	500	6	140	19 (8x)	69.4	18 JS9	63	1763	3081
	280	550	450 H7	20	70	75 H7	500	6	140	19 (8x)	79.9	20 JS9	58	1763	3090
	315S-L	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	79	1793	3115
W15	200	400	300 H7	20	70	55 H7	350	6	110	19 (4x)	59.3	16 JS9	31.5	1718	3501
	225	450	350 H7	20	70	60 H7	400	6	140	19 (8x)	64.4	18 JS9	65.5	1752	3509
	250	550	450 H7	20	70	65 H7	500	6	140	19 (8x)	69.4	18 JS9	68	1777	3523
	280	550	450 H7	20	70	75 H7	500	6	140	19 (8x)	79.9	20 JS9	53	1777	3532
	315S-L	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	79	1807	3556
	315	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	79	1807	3556
W16	200	400	300 H7	20	70	55 H7	350	6	110	19 (4x)	59.3	16 JS9	31.5	1758	3765
	225	450	350 H7	20	70	60 H7	400	6	140	19 (8x)	64.4	18 JS9	65.5	1792	3773
	250	550	450 H7	20	70	65 H7	500	6	140	19 (8x)	69.4	18 JS9	68	1817	3787
	280	550	450 H7	20	70	75 H7	500	6	140	19 (8x)	79.9	20 JS9	53	1817	3796
	315S-L	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	79	1847	3820
	315	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	79	1847	3820

10.3.7 Right Angle Shafts T, 3 Stages



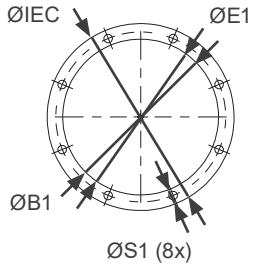
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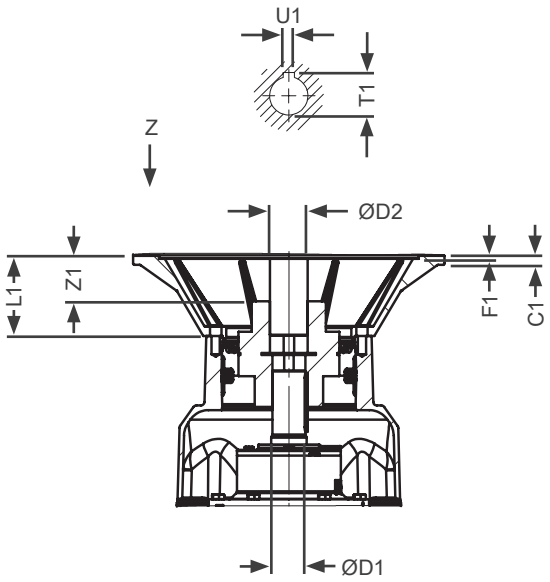
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≥ IEC 225

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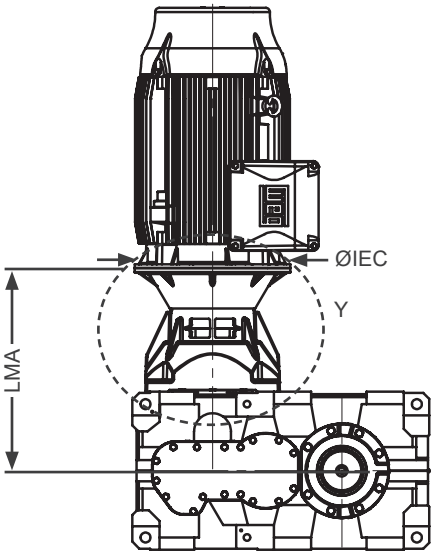


Detail Y

3 Stage	IEC	Ø IEC	Ø B1	C1	Ø D1	Ø D2	Ø E1	F1	L1	Ø S1	T1	U1	Z1	LMA	kg
W01	132	300	230 H7	32	32	38 H7	265	5	80	10.2 (4x)	41.3	18 JS9	48	460	264.3
	160	350	250 H7	18	32	42 H7	300	6	110	19 (4x)	45.3	12 JS9	77.5	510	274.3
	180	350	250 H7	18	32	48 H7	300	6	110	19 (4x)	51.8	14 JS9	77.5	510	274
	200	400	300 H7	18	32	55 H7	350	6	110	19 (4x)	59.3	16 JS9	53.5	510	279
	225	450	350 H7	20	32	60 H7	400	6	140	19 (4x)	64.4	18 JS9	82	544	290.7
W02	132	300	230 H7	32	32	38 H7	265	5	80	10.2 (4x)	41.3	18 JS9	48	460	294.4
	160	350	250 H7	18	32	42 H7	300	6	110	19 (4x)	45.3	12 JS9	77.5	510	344
	180	350	250 H7	18	32	48 H7	300	6	110	19 (4x)	51.8	14 JS9	77.5	510	304.2
	200	400	300 H7	18	32	55 H7	350	6	110	19 (4x)	59.3	16 JS9	53.5	510	309.1
	225	450	350 H7	20	32	60 H7	400	6	140	19 (4x)	64.4	18 JS9	82	544	320.8
W03	132	300	230 H7	32	38	38 H7	265	5	80	10.2 (4x)	41.3	10 JS9	25.5	491	395.9
	160	350	250 H7	18	38	42 H7	300	6	110	19 (4x)	45.3	12 JS9	61	541	404.4
	180	350	250 H7	18	38	48 H7	300	6	110	19 (4x)	45.3	12 JS9	61	541	404.4
	200	400	300 H7	18	38	55 H7	350	6	110	19 (4x)	59.3	16 JS9	51	541	409.1
	225	450	350 H7	20	38	60 H7	400	6	140	19 (4x)	64.4	18 JS9	62	575	420.7
	250	550	450 H7	20	38	65 H7	500	6	140	19 (4x)	69.4	18 JS9	82	600	427.9
	280	550	450 H7	20	38	75 H7	500	6	139.5	19 (4x)	79.9	20 JS9	81.5	600	434.5

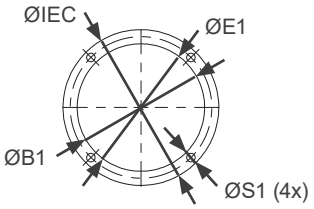
3 Stage	IEC	Ø IEC	Ø B1	C1	Ø D1	Ø D2	Ø E1	F1	L1	Ø S1	T1	U1	Z1	LMA	kg
W04	132	300	230 H7	32	38	38 H7	265	5	80	10.2 (4x)	41.3	10 JS9	25.5	491	434.2
	160	350	250 H7	18	38	42 H7	300	6	110	19 (4x)	45.3	12 JS9	61	541	442.7
	180	350	250 H7	18	38	48 H7	300	6	110	19 (4x)	45.3	12 JS9	61	541	442.6
	200	400	300 H7	18	38	55 H7	350	6	110	19 (4x)	59.3	16 JS9	51	541	447.4
	225	450	350 H7	20	38	60 H7	400	6	140	19 (4x)	64.4	18 JS9	62	575	459
	250	550	450 H7	20	38	65 H7	500	6	140	19 (4x)	69.4	18 JS9	82	600	466.2
	280	550	450 H7	20	38	75 H7	500	6	139.5	19 (4x)	79.9	20 JS9	81.5	600	472.7
W05	160	350	250 H7	18	45	42 H7	300	6	110	19 (4x)	45.3	12 JS9	70.5	625	598
	180	350	250 H7	18	45	48 H7	300	6	110	19 (4x)	51.8	14 JS9	70.5	625	598
	200	400	300 H7	20	45	55 H7	350	6	110	19 (4x)	59.3	16 JS9	59.5	625	603
	225	450	350 H7	20	45	60 H7	400	6	140	19 (8x)	64.4	18 JS9	66	659	615
	250	550	450 H7	20	45	65 H7	500	6	140	19 (8x)	69.4	18 JS9	78.5	684	629
	280	550	450 H7	20	45	75 H7	500	6	140	19 (8x)	79.9	20 JS9	78.5	684	629
	315S-L	660	550 H7	20	45	80 H7	600	7	170	24 (8x)	85.4	22 JS9	88.5	714	654
W06	160	350	250 H7	18	45	42 H7	300	6	110	19 (4x)	45.3	12 JS9	70.5	625	672
	180	350	250 H7	18	45	48 H7	300	6	110	19 (4x)	51.8	14 JS9	70.5	625	672
	200	400	300 H7	20	45	55 H7	350	6	110	19 (4x)	59.3	16 JS9	59.5	625	677
	225	450	350 H7	20	45	60 H7	400	6	140	19 (8x)	64.4	18 JS9	66	659	689
	250	550	450 H7	20	45	65 H7	500	6	140	19 (8x)	69.4	18 JS9	78.5	684	703
	280	550	450 H7	20	45	75 H7	500	6	140	19 (8x)	79.9	20 JS9	78.5	684	703
	315S-L	660	550 H7	20	45	80 H7	600	7	170	24 (8x)	85.4	22 JS9	88.5	714	728
W07	200	400	300 H7	20	55	55 H7	350	6	110	19 (4x)	59.3	16 JS9	59	682	997
	225	450	350 H7	20	55	60 H7	400	6	140	19 (8x)	64.4	18 JS9	83	716	1008
	250	550	450 H7	20	55	65 H7	500	6	140	19 (8x)	69.4	18 JS9	85	741	1023
	280	550	450 H7	20	55	75 H7	500	6	140	19 (8x)	79.9	20 JS9	75.5	741	1032
	315S-L	660	550 H7	20	55	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	771	1057
	315	660	550 H7	20	55	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	771	1057
W08	200	400	300 H7	20	55	55 H7	350	6	110	19 (4x)	59.3	16 JS9	59	682	1106
	225	450	350 H7	20	55	60 H7	400	6	140	19 (8x)	64.4	18 JS9	83	716	1117
	250	550	450 H7	20	55	65 H7	500	6	140	19 (8x)	69.4	18 JS9	85	741	1132
	280	550	450 H7	20	55	75 H7	500	6	140	19 (8x)	79.9	20 JS9	75.5	741	1141
	315S-L	660	550 H7	20	55	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	771	1166
	315	660	550 H7	20	55	80 H7	600	7	170	24 (8x)	85.4	22 JS9	87	771	1166
W09	225	450	350 H7	20	70	60 H7	400	6	140	19 (8x)	64.4	18 JS9	76	804	1426
	250	550	450 H7	20	70	65 H7	500	6	140	19 (8x)	69.4	18 JS9	86	829	1440
	280	550	450 H7	20	70	75 H7	500	6	140	19 (8x)	79.9	20 JS9	81	829	1449
	315S-L	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	97	859	1474
	315	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	97	859	1474
	355	800	680 H7	20	70	100 H7	740	7	210	24 (8x)	106.4	28 JS9	124.5	919	1517
W10	225	450	350 H7	20	70	60 H7	400	6	140	19 (8x)	64.4	18 JS9	76	804	1506
	250	550	450 H7	20	70	65 H7	500	6	140	19 (8x)	69.4	18 JS9	86	829	1520
	280	550	450 H7	20	70	75 H7	500	6	140	19 (8x)	79.9	20 JS9	81	829	1529
	315S-L	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	97	859	1554
	315	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	97	859	1554
	355	800	680 H7	20	70	100 H7	740	7	210	24 (8x)	106.4	28 JS9	124.5	919	1597
W11	250	550	450 H7	20	80	65 H7	500	6	140	19 (8x)	69.4	18 JS9	87	925	2019
	280	550	450 H7	20	80	75 H7	500	6	140	19 (8x)	79.9	20 JS9	77	925	2028
	315S-L	660	550 H7	20	80	80 H7	600	7	170	24 (8x)	85.4	22 JS9	93	955	2052
	315	660	550 H7	20	80	80 H7	600	7	170	24 (8x)	85.4	22 JS9	93	955	2052
	355	800	680 H7	20	80	100 H7	740	7	210	24 (8x)	106.4	28 JS9	131.5	1015	2095
W12	250	550	450 H7	20	80	65 H7	500	6	140	19 (8x)	69.4	18 JS9	87	925	2130
	280	550	450 H7	20	80	75 H7	500	6	140	19 (8x)	79.9	20 JS9	77	925	2139
	315S-L	660	550 H7	20	80	80 H7	600	7	170	24 (8x)	85.4	22 JS9	93	955	2163
	315	660	550 H7	20	80	80 H7	600	7	170	24 (8x)	85.4	22 JS9	93	955	2163
	355	800	680 H7	20	80	100 H7	740	7	210	24 (8x)	106.4	28 JS9	131.5	1015	2206
W13	250	550	450 H7	20	90	65 H7	500	6	140	19 (8x)	69.4	18 JS9	78	1016	2709
	280	550	450 H7	20	90	75 H7	500	6	140	19 (8x)	79.9	20 JS9	78	1016	2709
	315S-L	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	99	1046	2733
	315	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	99	1046	2733
	355	800	680 H7	20	90	100 H7	740	7	210	24 (8x)	106.4	28 JS9	137.5	1106	2776
W14	250	550	450 H7	20	90	65 H7	500	6	140	19 (8x)	69.4	18 JS9	78	1016	3086
	280	550	450 H7	20	90	75 H7	500	6	140	19 (8x)	79.9	20 JS9	78	1016	3086
	315S-L	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	99	1046	3110
	315	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	99	1046	3110
	355	800	680 H7	20	90	100 H7	740	7	210	24 (8x)	106.4	28 JS9	137.5	1106	3153
W15	315S-L	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	99	1041	3541
	315	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	99	1041	3541
	355	800	680 H7	20	90	100 H7	740	7	210	24 (8x)	106.4	28 JS9	137.5	1101	3583
W16	315S-L	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	99	1041	3805
	315	660	550 H7	20	90	80 H7	600	7	170	24 (8x)	85.4	22 JS9	99	1041	3805
	355	800	680 H7	20	90	100 H7	740	7	210	24 (8x)	106.4	28 JS9	137.5	1101	3847

10.3.8 Right Angle Shafts T, 4 Stages



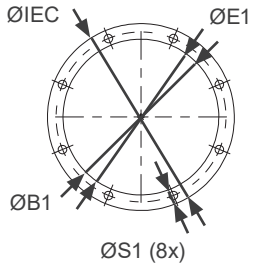
≤ IEC 200

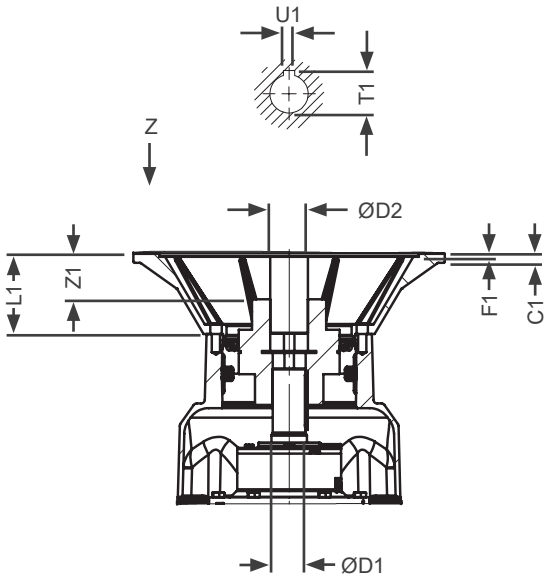
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≥ IEC 225

Z





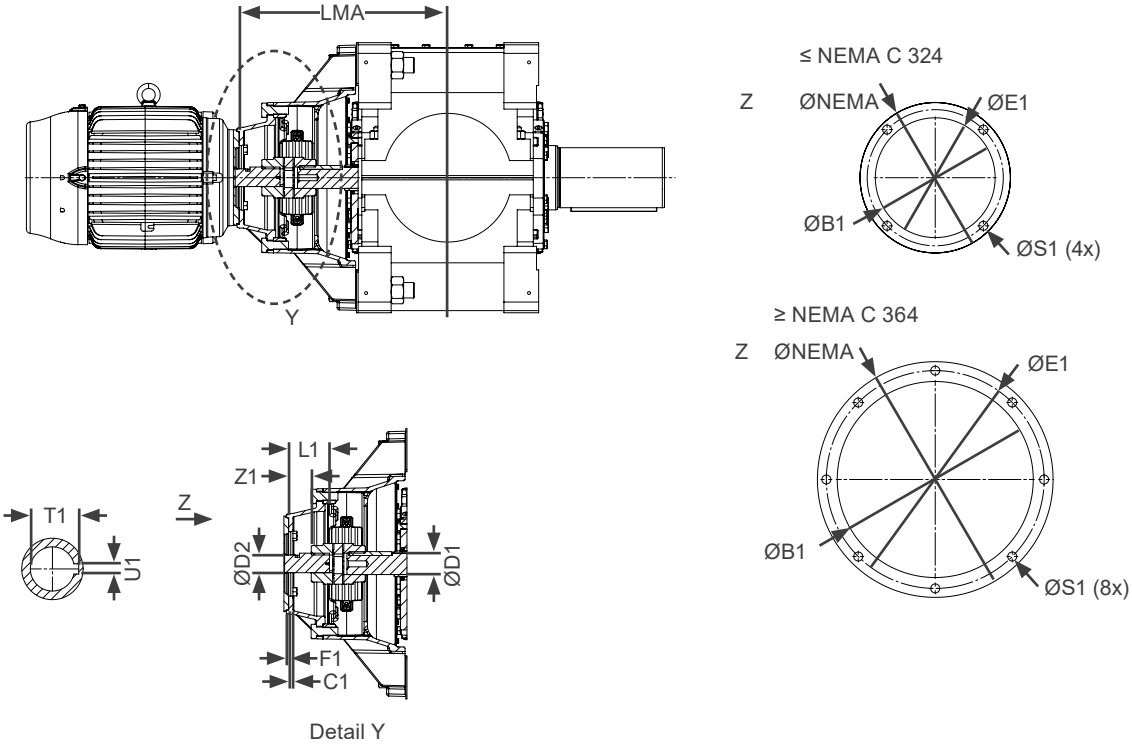
4 Stage	IEC	Ø IEC	Ø B1	C1	Ø D1	Ø D2	Ø E1	F1	L1	Ø S1	T1	U1	Z1	LMA	kg
W03	112	350	180 H7	18	28	28 H7	215	5	60	10.2 (4x)	31.3	8 JS9	31	469	387.2
	132	300	230 H7	32	28	38 H7	265	5	80	10.2 (4x)	41.3	10 JS9	51	491	387.6
	160	350	250 H7	18	28	42 H7	300	6	110	19 (4x)	45.8	14 JS9	87.5	541	396
	180	350	250 H7	18	28	48 H7	300	6	110	19 (4x)	45.8	14 JS9	87.5	541	396
W04	112	350	180 H7	18	28	28 H7	215	5	60	10.2 (4x)	31.3	8 JS9	31	459	413.2
	132	350	230 H7	32	28	38 H7	265	5	80	10.2 (4x)	41.3	10 JS9	51	459	413.5
	160	350	250 H7	18	28	42 H7	300	6	110	19 (4x)	45.8	14 JS9	87.5	541	422
	180	350	250 H7	18	28	48 H7	300	6	110	19 (4x)	45.8	14 JS9	87.5	541	422
W05	100	250	180 H7	18	32	28 H7	215	5	60	15 (4x)	31.3	8 JS9	34	553	582
	112	250	180 H7	18	32	28 H7	215	5	60	15 (4x)	31.3	8 JS9	34	553	582
	132	300	230 H7	18	32	38 H7	265	5	60	15 (4x)	41.3	10 JS9	36.5	574	582
	160	350	250 H7	18	32	42 H7	300	6	110	19 (4x)	45.3	12 JS9	80	625	593
	180	350	250 H7	18	32	48 H7	300	6	110	19 (4x)	51.8	14 JS9	80	625	593
	200	400	300 H7	20	32	55 H7	350	6	110	19 (4x)	59.3	16 JS9	59	625	598

ACCESSORIES - ADDITIONAL DIMENSIONS

4 Stage	IEC	Ø IEC	Ø B1	C1	Ø D1	Ø D2	Ø E1	F1	L1	Ø S1	T1	U1	Z1	LMA	kg
W06	100	250	180 H7	18	32	28 H7	215	5	60	15 (4x)	31.3	8 JS9	34	553	656
	112	250	180 H7	18	32	28 H7	215	5	60	15 (4x)	31.3	8 JS9	34	553	656
	132	300	230 H7	18	32	38 H7	265	5	60	15 (4x)	41.3	10 JS9	36.5	574	656
	160	350	250 H7	18	32	42 H7	300	6	110	19 (4x)	45.3	12 JS9	80	625	667
	180	350	250 H7	18	32	48 H7	300	6	110	19 (4x)	51.8	14 JS9	80	625	667
	200	400	300 H7	20	32	55 H7	350	6	110	19 (4x)	59.3	16 JS9	59	625	672
W07	132	300	230 H7	18	38	38 H7	265	5	60	15 (4x)	41.3	10 JS9	31.5	631	981
	160	350	250 H7	18	38	42 H7	300	6	110	19 (4x)	45.3	12 JS9	64	682	991
	180	350	250 H7	18	38	48 H7	300	6	110	19 (4x)	51.8	14 JS9	64	682	991
	200	400	300 H7	20	38	55 H7	350	6	110	19 (4x)	59.3	16 JS9	54	682	996
	225	450	350 H7	20	38	60 H7	400	6	140	19 (8x)	64.4	18 JS9	78	716	1007
W08	132	300	230 H7	18	38	38 H7	265	5	60	15 (4x)	41.3	10 JS9	31.5	631	1090
	160	350	250 H7	18	38	42 H7	300	6	110	19 (4x)	45.3	12 JS9	64	682	1100
	180	350	250 H7	18	38	48 H7	300	6	110	19 (4x)	51.8	14 JS9	64	682	1100
	200	400	300 H7	20	38	55 H7	350	6	110	19 (4x)	59.3	16 JS9	54	682	1105
	225	450	350 H7	20	38	60 H7	400	6	140	19 (8x)	64.4	18 JS9	78	716	1116
W09	160	350	250 H7	18	45	42 H7	300	6	110	19 (4x)	45.3	12 JS9	49.5	770	1406
	180	350	250 H7	18	45	48 H7	300	6	110	19 (4x)	51.8	14 JS9	49.5	770	1406
	200	400	300 H7	20	45	55 H7	350	6	110	19 (4x)	59.3	16 JS9	39.5	770	1411
	225	450	350 H7	20	45	60 H7	400	6	140	19 (8x)	64.4	18 JS9	63.5	804	1422
	250	550	450 H7	20	45	65 H7	500	6	140	19 (8x)	69.4	18 JS9	66	829	1436
	280	550	450 H7	20	45	75 H7	500	6	140	19 (8x)	79.9	20 JS9	56	829	1445
W10	160	350	250 H7	18	45	42 H7	300	6	110	19 (4x)	45.3	12 JS9	49.5	770	1486
	180	350	250 H7	18	45	48 H7	300	6	110	19 (4x)	51.8	14 JS9	49.5	770	1486
	200	400	300 H7	20	45	55 H7	350	6	110	19 (4x)	59.3	16 JS9	39.5	770	1491
	225	450	350 H7	20	45	60 H7	400	6	140	19 (8x)	64.4	18 JS9	63.5	804	1502
	250	550	450 H7	20	45	65 H7	500	6	140	19 (8x)	69.4	18 JS9	66	829	1516
	280	550	450 H7	20	45	75 H7	500	6	140	19 (8x)	79.9	20 JS9	56	829	1525
W11	160	350	250 H7	18	55	42 H7	300	6	110	19 (4x)	45.3	12 JS9	58	866	1980
	180	350	250 H7	18	55	48 H7	300	6	110	19 (4x)	51.8	14 JS9	58	866	1980
	200	400	300 H7	20	55	55 H7	350	6	110	19 (4x)	59.3	16 JS9	53	866	1984
	225	450	350 H7	20	55	60 H7	400	6	140	19 (8x)	64.4	18 JS9	77	900	1996
	250	550	450 H7	20	55	65 H7	500	6	140	19 (8x)	69.4	18 JS9	82	925	2010
	280	550	450 H7	20	55	75 H7	500	6	140	19 (8x)	79.9	20 JS9	72	925	2019
	315S-L	660	550 H7	20	55	80 H7	600	7	170	24 (8x)	85.4	22 JS9	93	955	2044
W12	160	350	250 H7	18	55	42 H7	300	6	110	19 (4x)	45.3	12 JS9	58	866	2091
	180	350	250 H7	18	55	48 H7	300	6	110	19 (4x)	51.8	14 JS9	58	866	2091
	200	400	300 H7	20	55	55 H7	350	6	110	19 (4x)	59.3	16 JS9	53	866	2095
	225	450	350 H7	20	55	60 H7	400	6	140	19 (8x)	64.4	18 JS9	77	900	2107
	250	550	450 H7	20	55	65 H7	500	6	140	19 (8x)	69.4	18 JS9	82	925	2121
	280	550	450 H7	20	55	75 H7	500	6	140	19 (8x)	79.9	20 JS9	72	925	2130
	315S-L	660	550 H7	20	55	80 H7	600	7	170	24 (8x)	85.4	22 JS9	93	955	2155
W13	160	350	250 H7	18	70	42 H7	300	6	110	24 (8x)	45.3	12 JS9	29	957	2682
	180	350	250 H7	18	70	48 H7	300	6	110	24 (8x)	51.8	14 JS9	29	957	2682
	200	400	300 H7	20	70	55 H7	350	6	110	24 (8x)	59.3	16 JS9	36.5	957	2682
	225	450	350 H7	20	70	60 H7	400	6	140	24 (8x)	64.4	18 JS9	63	991	2690
	250	550	450 H7	20	70	65 H7	500	6	140	24 (8x)	69.4	18 JS9	63	1016	2704
	280	550	450 H7	20	70	75 H7	500	6	140	24 (8x)	79.9	20 JS9	58	1016	2713
	315S-L	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	79	1046	2738
W14	160	350	250 H7	18	70	42 H7	300	6	110	24 (8x)	45.3	12 JS9	29	957	3059
	180	350	250 H7	18	70	48 H7	300	6	110	24 (8x)	51.8	14 JS9	29	957	3059
	200	400	300 H7	20	70	55 H7	350	6	110	24 (8x)	59.3	16 JS9	36.5	957	3059
	225	450	350 H7	20	70	60 H7	400	6	140	24 (8x)	64.4	18 JS9	63	991	3067
	250	550	450 H7	20	70	65 H7	500	6	140	24 (8x)	69.4	18 JS9	63	1016	3081
	280	550	450 H7	20	70	75 H7	500	6	140	24 (8x)	79.9	20 JS9	58	1016	3090
	315S-L	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	79	1046	3115
W15	200	400	300 H7	20	70	55 H7	350	6	110	24 (8x)	59.3	16 JS9	31.5	952	3501
	225	450	350 H7	20	70	60 H7	400	6	140	24 (8x)	64.4	18 JS9	65.5	986	3509
	250	550	450 H7	20	70	65 H7	500	6	140	24 (8x)	69.4	18 JS9	68	1011	3523
	280	550	450 H7	20	70	75 H7	500	6	140	24 (8x)	79.9	20 JS9	53	1011	3532
	315S-L	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	79	1041	3556
	315	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	79	1041	3556
W16	200	400	300 H7	20	70	55 H7	350	6	110	24 (8x)	59.3	16 JS9	31.5	952	3765
	225	450	350 H7	20	70	60 H7	400	6	140	24 (8x)	64.4	18 JS9	65.5	986	3773
	250	550	450 H7	20	70	65 H7	500	6	140	24 (8x)	69.4	18 JS9	68	1011	3787
	280	550	450 H7	20	70	75 H7	500	6	140	24 (8x)	79.9	20 JS9	53	1011	3796
	315S-L	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	79	1041	3820
	315	660	550 H7	20	70	80 H7	600	7	170	24 (8x)	85.4	22 JS9	79	1041	3820

10.4 NEMA C MOTOR INPUT FLANGE

10.4.1 Parallel Shafts, 2 Stage



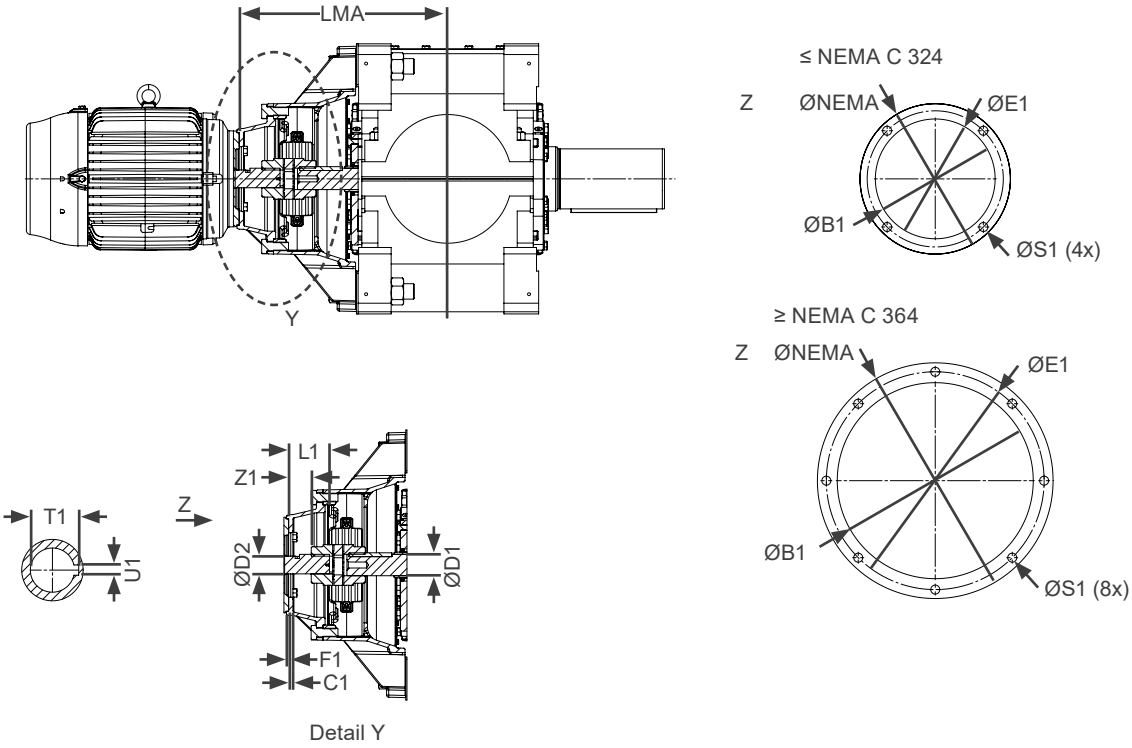
Detail Y

2 Stage	Nema C	IEC	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W01	254/6T	230.3	215.9 H7	10	Ø40	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	57.8	399	239.8
	284/6T	280.5	266.7 H7	13	Ø40	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	61.1	404	244.4
	324/6T	354.7	317.5 H7	15	Ø40	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	89.0	442	248.6
	364/5T	354.7	317.5 H7	15	Ø40	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	89.9	442	248.6
W02	254/6T	230.3	215.9 H7	10	Ø40	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	57.8	399	265.7
	284/6T	280.5	266.7 H7	13	Ø40	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	61.1	404	270.2
	324/6T	354.7	317.5 H7	15	Ø40	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	89.0	442	274.5
	364/5T	354.7	317.5 H7	15	Ø40	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	89.9	442	274.5
W03	324/6T	354.7	317.5 H7	15	Ø50	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	91.0	466	410.3
	364/5T	354.7	317.5 H7	15	Ø50	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	91.9	466	410.6
	404/5T	394.6	317.5 H7	15	Ø50	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	112.8	521	418.7
W04	324/6T	354.7	317.5 H7	15	Ø50	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	97.5	461	409.4
	364/5T	354.7	317.5 H7	15	Ø50	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	93.9	461	409.7
	404/5T	394.6	317.5 H7	15	Ø50	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	516	417.9
W05	404/5T	394.6	317.5 H7	15	Ø60	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	562	569.9
	444/5T	454.9	406.4 H7	27	Ø60	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	136.6	619	590.3
	445/7T	454.9	406.4 H7	27	Ø60	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	136.6	619	590.3

ACCESSORIES - ADDITIONAL DIMENSIONS

2 Stage	Nema C	IEC	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W06	404/5T	394.6	317.5 H7	15	Ø60	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	562	652.2
	444/5T	454.9	406.4 H7	27	Ø60	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	136.6	619	672.6
	445/7T	454.9	406.4 H7	27	Ø60	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	136.6	619	672.6
W07	404/5T	394.6	317.5 H7	15	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	597	923.8
	444/5T	454.9	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.0	654	944.2
	445/7T	454.9	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.0	654	944.2
	447/9T	454.9	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	119.1	654	944.2
	586/7T	454.9	419.1 H7	27	Ø70	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	203.9	769	957.8
W08	404/5T	394.6	317.5 H7	15	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	597	1031.9
	444/5T	454.9	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.0	654	1052.3
	445/7T	454.9	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.0	654	1052.3
	447/9T	454.9	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	119.1	654	1052.3
	586/7T	454.9	419.1 H7	27	Ø70	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	203.9	769	1065.9
W09	445/7T	454.9	406.4 H7	27	Ø80	85.725	+0.0381	355.6	5	209.6	18 (8x)	81.41	19.05	-0.0762	137.0	714	1323.7
	447/9T	454.9	406.4 H7	27	Ø80	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	119.6	714	1323.7
	586/7T	454.9	419.1 H7	27	Ø80	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	203.9	829	1337.3
W10	445/7T	394.6	406.4 H7	27	Ø80	85.725	+0.0381	279.4	5	209.6	18 (8x)	81.41	19.05	-0.0762	137.0	714	1403.7
	447/9T	454.9	406.4 H7	27	Ø80	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	119.6	714	1403.7
	586/7T	454.9	419.1 H7	27	Ø80	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	203.9	829	1417.3
W11	445/7T	394.6	406.4 H7	27	Ø95	85.725	+0.0381	279.4	5	209.6	18 (8x)	81.41	19.05	-0.0762	136.6	734	1767.1
	447/9T	454.9	406.4 H7	27	Ø95	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	119.1	734	1767.1
	586/7T	454.9	419.1 H7	27	Ø95	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	203.9	849	1780.7
W12	445/7T	394.6	406.4 H7	27	Ø95	85.725	+0.0381	279.4	5	209.6	18 (8x)	81.41	19.05	-0.0762	136.6	734	1894.3
	447/9T	454.9	406.4 H7	27	Ø95	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	119.1	734	1894.3
	586/7T	454.9	419.1 H7	27	Ø95	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	203.9	687	1907.9
W13	445/7T	394.6	406.4 H7	27	Ø105	85.725	+0.0381	279.4	5	209.6	18 (8x)	81.41	19.05	-0.0762	114.6	614	2505.5
	447/9T	454.9	406.4 H7	27	Ø105	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	111.6	614	2505.5
	586/7T	454.9	419.1 H7	27	Ø105	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	198.9	729	2519.1
W14	445/7T	394.6	406.4 H7	27	Ø105	85.725	+0.0381	279.4	5	209.6	18 (8x)	81.41	19.05	-0.0762	114.6	614	2786.5
	447/9T	454.9	406.4 H7	27	Ø105	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	114.6	614	2786.5
	586/7T	454.9	419.1 H7	27	Ø105	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	198.9	729	2800.1
W15	447/9T	454.9	406.4 H7	27	Ø115	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	114.6	865	3231.1
	586/7T	454.9	419.1 H7	27	Ø115	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	211.9	980	3244.7
W16	447/9T	454.9	406.4 H7	27	Ø115	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	114.6	865	3528.4
	586/7T	454.9	419.1 H7	27	Ø115	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	211.9	980	3542.0

10.4.2 Parallel Shafts, 3 Stage



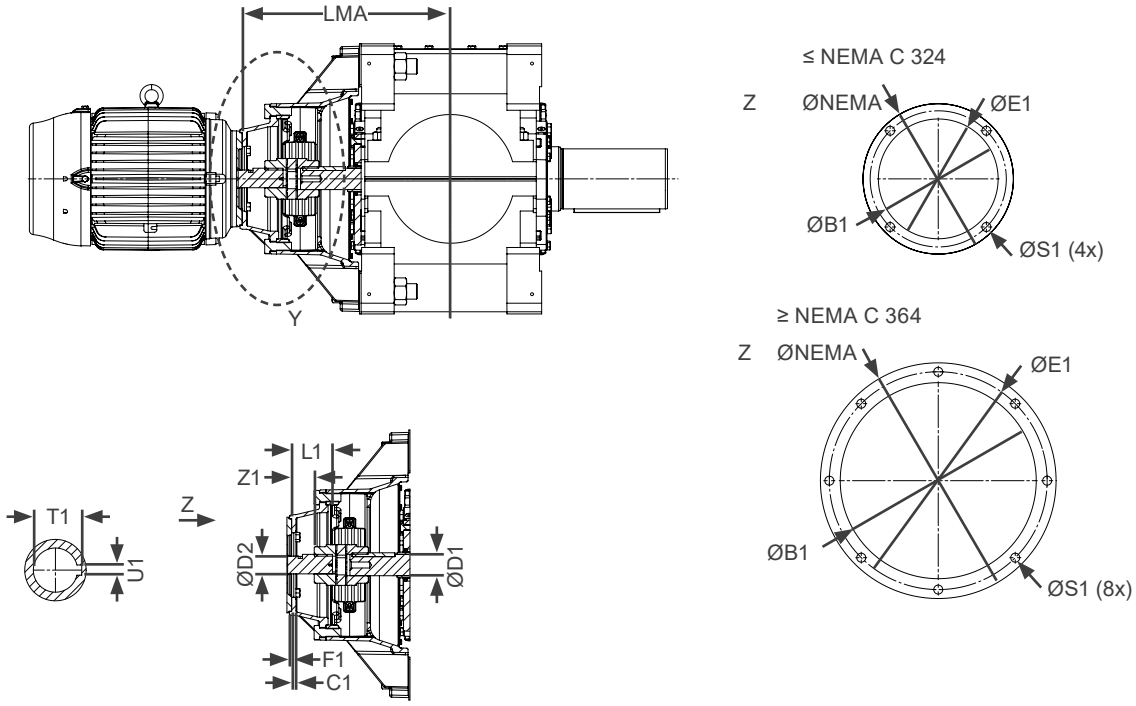
3 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W01	213/5	235.0	215.9H7	10	Ø32	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	49.7	381	252.2
	254/6	235.0	215.9 H7	10	Ø32	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	63.8	381	252.2
	284/6	280.5	266.7 H7	13	Ø32	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	68.1	386	256.7
	324/6	354.7	317.5 H7	15	Ø32	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	95.0	424	261.0
W02	213/5	235.0	215.9 H7	10	Ø32	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	49.7	381	286.4
	254/6	235.0	215.9 H7	10	Ø32	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	63.8	381	288.8
	284/6	280.5	266.7 H7	13	Ø32	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	68.1	386	288.8
	324/6	354.7	317.5 H7	15	Ø32	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	95.0	424	297.4
W03	213/5	235.0	215.9 H7	10	Ø38	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	52.2	406	375.7
	254/6	235.0	215.9 H7	10	Ø38	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	66.3	406	375.7
	284/6	280.5	266.7 H7	13	Ø38	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	70.1	411	380.2
	324/6	354.7	317.5 H7	15	Ø38	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	97.5	449	384.5
	364/5	354.7	317.5 H7	15	Ø38	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	93.9	449	384.8
	404/5	394.6	317.5 H7	15	Ø38	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	504	393.0
W04	213/5	235.0	215.9 H7	10	Ø38	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	52.2	406	418.0
	254/6	235.0	215.9 H7	10	Ø38	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	66.3	406	418.1
	284/6	280.5	266.7 H7	13	Ø38	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	0 -0.0508	70.1	411	422.6
	324/6	354.7	317.5 H7	15	Ø38	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	97.5	449	426.9
	364/5	354.7	317.5 H7	15	Ø38	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	93.9	449	427.2
	404/5	394.6	317.5 H7	15	Ø38	73.025	+0.0381	279.4	5	142.9	18 (8x)	81.41	19.05	-0.0508	93.9	449	435.3

ACCESSORIES - ADDITIONAL DIMENSIONS

3 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W05	254/6	235.0	215.9 H7	10	Ø45	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	57.8	449	586.1
	284/6	280.5	266.7 H7	13	Ø45	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	61.1	454	590.5
	324/6	354.7	317.5 H7	15	Ø45	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	89.0	492	594.7
	364/5	354.7	317.5 H7	15	Ø45	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	89.9	492	595.0
	404/5	394.6	317.5 H7	15	Ø45	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	112.3	547	603.2
	444/5	454.9	406.4 H7	27	Ø45	85.725	+0.0381	355.6	5	209.6	18 (8x)	92.64	22.23	-0.0762	144.6	604	623.6
W06	254/6	235.0	215.9 H7	10	Ø45	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	57.8	449	675.2
	284/6	280.5	266.7 H7	13	Ø45	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	61.1	454	679.6
	324/6	354.7	317.5 H7	15	Ø45	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	89.0	492	683.9
	364/5	354.7	317.5 H7	15	Ø45	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	89.9	492	684.2
	404/5	394.6	317.5 H7	15	Ø45	73.025	+0.0381	279.4	5	112.3	18 (8x)	81.41	19.05	-0.0508	177.8	547	692.3
	444/5	454.9	406.4 H7	27	Ø45	85.725	+0.0381	355.6	5	209.6	18 (8x)	92.64	22.23	-0.0762	144.6	604	712.8
W07	254/6	235.0	215.9 H7	10	Ø50	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	52.8	486	963.1
	284/6	280.5	266.7 H7	13	Ø50	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	63.1	491	967.5
	324/6	354.7	317.5 H7	15	Ø50	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	90.0	529	971.7
	364/5	354.7	317.5 H7	15	Ø50	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	90.9	529	972.0
	404/5	394.6	317.5 H7	15	Ø50	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	113.3	584	980.2
	444/5	454.9	406.4 H7	27	Ø50	85.725	+0.0381	355.6	5	209.6	18 (8x)	92.64	22.23	-0.0762	145.6	641	1000.6
	447/9	454.9	406.4 H7	27	Ø50	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	109.6	641	1000.6
W08	254/6	235.0	215.9 H7	10	Ø50	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	52.8	384	1088.9
	284/6	280.5	266.7 H7	13	Ø50	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	63.1	491	1093.3
	324/6	354.7	317.5 H7	15	Ø50	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	90.0	529	1097.5
	364/5	354.7	317.5 H7	15	Ø50	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	90.9	529	1097.8
	404/5	394.6	317.5 H7	15	Ø50	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	113.3	584	1106.0
	444/5	454.9	406.4 H7	27	Ø50	85.725	+0.0381	355.6	5	209.6	18 (8x)	92.64	22.23	-0.0762	145.6	641	1126.4
	447/9	454.9	406.4 H7	27	Ø50	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	109.6	641	1126.4
W09	324/6	354.7	317.5 H7	15	Ø60	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	54.5	572	1421.7
	364/5	354.7	317.5 H7	15	Ø60	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	49.9	572	1422.0
	404/5	394.6	317.5 H7	15	Ø60	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	107.8	627	1430.1
	444/5	454.9	406.4 H7	27	Ø60	85.725	+0.0381	355.6	5	209.6	18 (8x)	92.64	22.23	-0.0762	139.6	684	1450.5
	447/9	454.9	406.4 H7	27	Ø60	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	121.6	684	1450.5
W10	324/6	354.7	317.5 H7	15	Ø60	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	54.5	572	1501.9
	364/5	354.7	317.5 H7	15	Ø60	60.325	+0.0381	279.4	5	142.9	18 (8x)	59.69	12.07	-0.0508	49.9	572	1502.2
	404/5	354.7	317.5 H7	15	Ø60	73.025	+0.0381	279.4	5	177.8	18 (8x)	67.34	15.88	-0.0508	107.8	627	1510.3
	444/5	394.6	406.4 H7	27	Ø60	85.725	+0.0381	279.4	5	209.6	18 (8x)	81.41	19.05	-0.0762	139.6	684	1530.8
	447/9	454.9	406.4 H7	27	Ø60	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	121.6	684	1530.8

3 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W11	364/5	354.7	317.5 H7	15	Ø65	60.325	+0.0381	279.4	5	142.9	18 (8x)	59.69	12.07	-0.0508	47.9	593	1911.1
	404/5	354.7	317.5 H7	15	Ø65	73.025	+0.0381	279.4	5	177.8	18 (8x)	67.34	15.88	-0.0508	107.8	648	1919.3
	444/5	394.6	317.5 H7	15	Ø65	85.725	+0.0381	279.4	5	209.6	18 (8x)	81.41	19.05	-0.0762	139.6	705	1939.7
	445/7	454.9	406.4 H7	27	Ø65	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	139.6	705	1939.7
	447/9	454.9	406.4 H7	27	Ø65	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	122.1	705	1939.7
	586/7	454.9	419.1 H7	27	Ø65	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	206.9	820	1953.3
W12	364/5	354.7	317.5 H7	15	Ø65	60.325	+0.0381	279.4	5	142.9	18 (8x)	59.69	12.07	-0.0508	47.9	593	2036.2
	404/5	354.7	317.5 H7	15	Ø65	73.025	+0.0381	279.4	5	177.8	18 (8x)	67.34	15.88	-0.0508	85.2	648	2044.3
	444/5	394.6	317.5 H7	15	Ø65	85.725	+0.0381	279.4	5	209.6	18 (8x)	81.41	19.05	-0.0762	139.6	705	2064.8
	445/7	454.9	406.4 H7	27	Ø65	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	139.6	705	2064.8
	447/9	454.9	406.4 H7	27	Ø65	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	122.1	705	2064.8
	586/7	454.9	419.1 H7	27	Ø65	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	206.9	820	2078.4
W13	404/5	354.7	317.5 H7	15	Ø75	73.025	+0.0381	279.4	5	177.8	18 (8x)	67.34	15.88	-0.0508	109.8	682	2704.7
	444/5	394.6	317.5 H7	15	Ø75	85.725	+0.0381	279.4	5	209.6	18 (8x)	81.41	19.05	-0.0762	141.6	739	2725.1
	445/7	454.9	406.4 H7	27	Ø75	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	147.4	739	2725.1
	447/9	454.9	406.4 H7	27	Ø75	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	123.6	739	2725.1
	586/7	454.9	419.1 H7	27	Ø75	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	208.9	854	2738.7
W14	404/5	354.7	317.5 H7	15	Ø75	73.025	+0.0381	279.4	5	177.8	18 (8x)	67.34	15.88	-0.0508	109.8	682	2979.5
	444/5	394.6	317.5 H7	15	Ø75	85.725	+0.0381	279.4	5	209.6	18 (8x)	81.41	19.05	-0.0762	141.6	739	2999.9
	445/7	454.9	406.4 H7	27	Ø75	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	147.4	739	2999.9
	447/9	454.9	406.4 H7	27	Ø75	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	123.6	739	2999.9
	586/7	454.9	419.1 H7	27	Ø75	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	208.9	854	3013.5
W15	404/5	354.7	317.5 H7	15	Ø75	73.025	+0.0381	279.4	5	177.8	18 (8x)	67.34	15.88	-0.0508	114.3	721	3400.5
	444/5	394.6	317.5 H7	15	Ø75	85.725	+0.0381	279.4	5	209.6	18 (8x)	81.41	19.05	-0.0762	146.6	778	3421.0
	445/7	454.9	406.4 H7	27	Ø75	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	151.9	778	3421.0
	447/9	454.9	406.4 H7	27	Ø75	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	128.6	778	3421.0
	586/7	454.9	419.1 H7	27	Ø75	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	213.4	893	3434.6
W16	404/5	354.7	317.5 H7	15	Ø75	73.025	+0.0381	279.4	5	183.4	18 (8x)	67.34	15.88	-0.0508	114.3	721	3692.0
	444/5	394.6	317.5 H7	15	Ø75	85.725	+0.0381	279.4	5	209.6	18 (8x)	81.41	19.05	-0.0762	146.6	778	3712.4
	445/7	454.9	406.4 H7	27	Ø75	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	151.9	778	3712.4
	447/9	454.9	406.4 H7	27	Ø75	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	128.6	778	3712.4
	586/7	454.9	419.1 H7	26	Ø75	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	213.4	893	3726.0

10.4.3 Parallel Shafts, 4 Stages



Detail Y

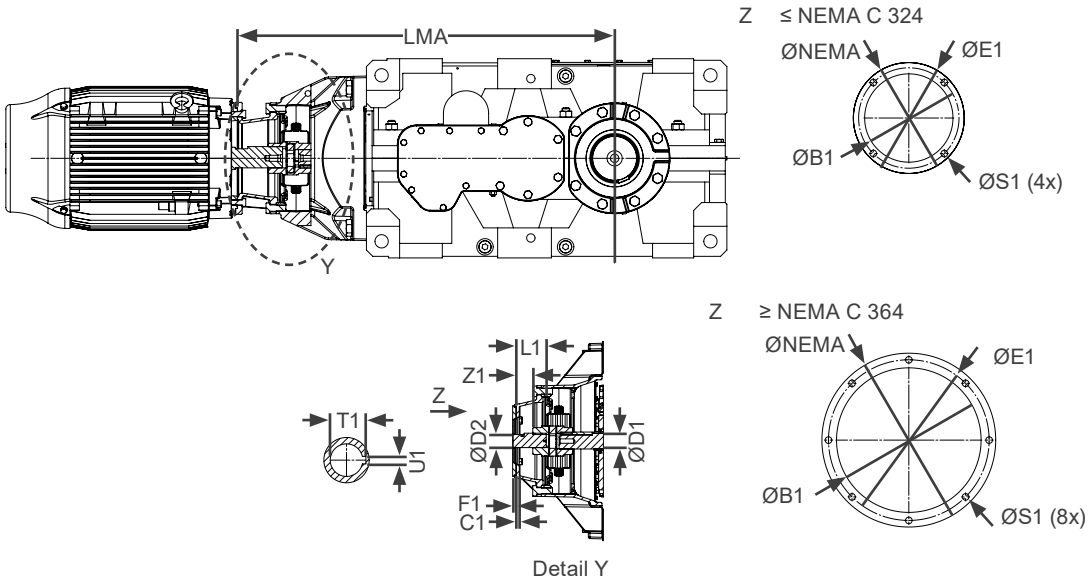
4 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W03	182/4T	240	215.9 H7	18	Ø25	28.575	+0.0254	184.2	5	66.7	14 (4x)	31.52	6.35	-0.0508	47.2	353	381.3
	213/5T	240	215.9 H7	18	Ø25	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	53.7	353	381.3
	254/6T	240	215.9 H7	18	Ø25	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	50.3	353	381.3
	284/6T	281	266.7 H7	13	Ø25	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	86.1	411	384.3
W04	182/4T	240	215.9 H7	18	Ø25	28.575	+0.0254	184.2	5	66.7	14 (4x)	31.52	6.35	-0.0508	47.2	353	423.9
	213/5T	240	215.9 H7	18	Ø25	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	53.7	353	423.9
	254/6T	240	215.9 H7	18	Ø25	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	50.3	353	423.9
	284/6T	281	266.7 H7	13	Ø25	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	86.1	411	426.9
W05	182/4T	240	215.9 H7	18	Ø30	28.575	+0.0254	184.2	5	66.7	14 (4x)	31.52	6.35	-0.0508	43.7	396	598.5
	213/5T	240	215.9 H7	18	Ø30	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	50.2	396	598.5
	254/6T	240	215.9 H7	18	Ø30	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	50.3	396	598.5
	284/6T	281	266.7 H7	13	Ø30	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	77.1	454	601.6
	324/6T	355	317.5 H7	15	Ø30	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	104.0	492	605.9
W06	182/4T	240	215.9 H7	18	Ø30	28.575	+0.0254	184.2	5	66.7	14 (4x)	31.52	6.35	-0.0508	43.7	396	685.6
	213/5T	240	215.9 H7	18	Ø30	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	50.2	396	685.6
	254/6T	240	215.9 H7	18	Ø30	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	50.3	396	685.6
	284/6T	281	266.7 H7	13	Ø30	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	77.1	454	688.7
	324/6T	355	317.5 H7	15	Ø30	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	104.0	492	693.0

4 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W07	213/5T	240	215.9 H7	18	Ø35	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	51.2	433	972.1
	254/6T	240	215.9 H7	10	Ø35	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	67.8	486	970.8
	284/6T	281	266.7 H7	13	Ø35	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	78.1	491	975.2
	324/6T	355	317.5 H7	15	Ø35	53.975	+0.0381	279.4	5	154.0	18 (4x)	59.69	12.07	-0.0508	98.0	529	979.4
	364/5T	355	317.5 H7	15	Ø35	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	105.9	529	979.7
	404/5T	395	317.5 H7	15	Ø35	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	128.3	584	987.9
	444/5T	455	406.4 H7	27	Ø35	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	160.6	641	1008.3
W08	213/5T	240	215.9 H7	18	Ø35	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	51.2	433	1087.7
	254/6T	240	215.9 H7	10	Ø35	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	67.8	486	1086.4
	284/6T	281	266.7 H7	13	Ø35	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	78.1	491	1090.7
	324/6T	355	317.5 H7	15	Ø35	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	98.0	529	1095.0
	364/5T	355	317.5 H7	15	Ø35	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	105.9	529	1095.3
	404/5T	395	317.5 H7	15	Ø35	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	139.2	584	1103.5
	444/5T	455	406.4 H7	27	Ø35	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	160.6	641	1123.9
W09	254/6T	240	215.9 H7	10	Ø40	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	67.8	486	1424.2
	284/6T	281	266.7 H7	13	Ø40	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	78.1	491	1428.6
	324/6T	355	317.5 H7	15	Ø40	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	98.0	529	1432.8
	364/5T	355	317.5 H7	15	Ø40	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	105.9	529	1433.1
	404/5T	395	317.5 H7	15	Ø40	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	128.3	584	1441.3
	444/5T	455	406.4 H7	27	Ø40	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	160.6	641	1461.7
W10	254/6T	240	215.9 H7	10	Ø40	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	67.8	529	1505.3
	284/6T	281	266.7 H7	13	Ø40	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	72.1	534	1509.7
	324/6T	355	317.5 H7	15	Ø40	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	99.0	572	1513.9
	364/5T	355	317.5 H7	15	Ø40	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	99.9	572	1514.2
	404/5T	395	317.5 H7	15	Ø40	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	122.3	627	1522.4
	444/5T	455	406.4 H7	27	Ø40	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	154.1	684	1542.8
W11	254/6T	240	215.9 H7	10	Ø45	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	68.3	550	1937.6
	284/6T	281	266.7 H7	13	Ø45	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	72.6	555	1942.0
	324/6T	355	317.5 H7	15	Ø45	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	99.5	593	1946.2
	364/5T	355	317.5 H7	15	Ø45	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	100.4	593	1946.5
	404/5T	395	317.5 H7	15	Ø45	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	122.8	648	1954.7
	444/5T	455	406.4 H7	27	Ø45	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	154.6	705	1975.1
W12	254/6T	240	215.9 H7	10	Ø45	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	68.3	550	2059.7
	284/6T	281	266.7 H7	13	Ø45	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	72.6	555	2064.1
	324/6T	355	317.5 H7	15	Ø45	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	99.5	593	2068.4
	364/5T	355	317.5 H7	15	Ø45	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	100.4	593	2068.6
	404/5T	395	317.5 H7	15	Ø45	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	122.8	648	2076.8
	444/5T	455	406.4 H7	27	Ø45	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	154.6	705	2097.2

ACCESSORIES - ADDITIONAL DIMENSIONS

4 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W13	254/6T	240	215.9 H7	10	Ø55	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	64.3	584	2733.1
	284/6T	281	266.7 H7	13	Ø55	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	74.6	589	2737.5
	324/6T	355	317.5 H7	15	Ø55	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	101.5	627	2741.8
	364/5T	355	317.5 H7	15	Ø55	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	102.4	627	2742.0
	404/5T	395	317.5 H7	15	Ø55	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	124.8	682	2750.2
	444/5T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	156.6	739	2770.6
	445/7T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	156.6	739	2770.6
	447/9T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	139.6	739	2770.6
W14	254/6T	240	215.9 H7	10	Ø55	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	64.3	584	3010.6
	284/6T	281	266.7 H7	13	Ø55	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	74.6	589	3015.0
	324/6T	355	317.5 H7	15	Ø55	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	101.5	627	3019.2
	364/5T	355	317.5 H7	15	Ø55	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	102.4	627	3019.5
	404/5T	395	317.5 H7	15	Ø55	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	124.8	682	3027.7
	444/5T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	156.6	739	3048.1
	445/7T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	156.6	739	3048.1
	447/9T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	139.6	739	3048.1
W15	324/6T	355	317.5 H7	15	Ø60	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	84.0	666	3444.4
	364/5T	355	317.5 H7	15	Ø60	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	91.9	666	3444.7
	404/5T	395	317.5 H7	15	Ø60	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	114.3	721	3452.9
	444/5T	455	406.4 H7	27	Ø60	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	146.1	778	3473.3
	445/7T	455	406.4 H7	27	Ø60	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	146.1	778	3473.3
	447/9T	455	406.4 H7	27	Ø60	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	128.6	778	3473.3
W16	324/6T	355	317.5 H7	15	Ø60	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	84.0	666	3444.4
	364/5T	355	317.5 H7	15	Ø60	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	91.9	666	3444.7
	404/5T	395	317.5 H7	15	Ø60	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	114.3	721	3452.9
	444/5T	455	406.4 H7	27	Ø60	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	146.1	778	3473.3
	445/7T	455	406.4 H7	27	Ø60	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	146.1	778	3473.3
	447/9T	455	406.4 H7	27	Ø60	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	128.6	778	3473.3

10.4.4 Right Angle Shafts K, 2 Stages



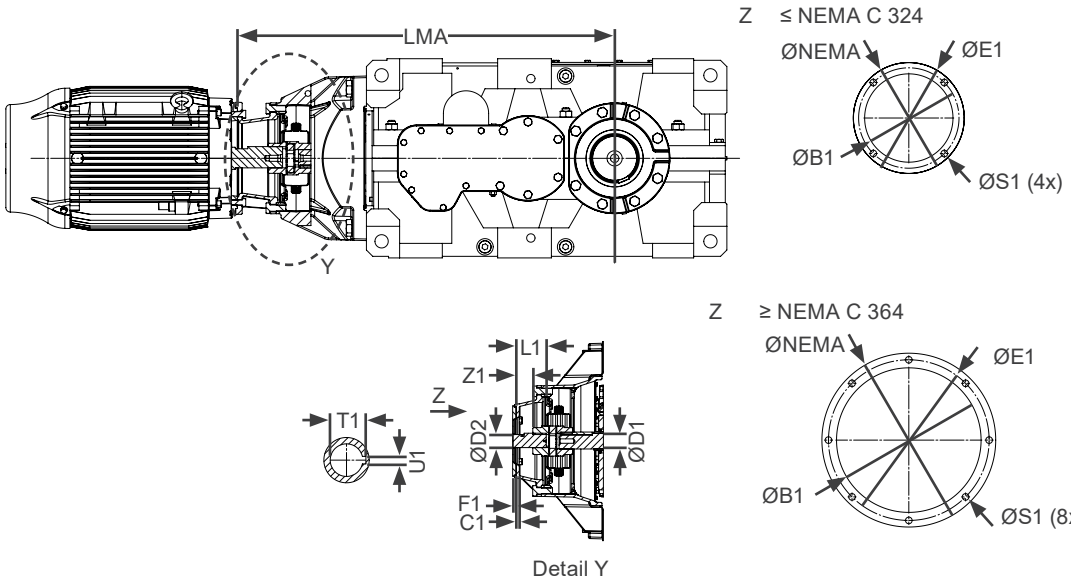
Detail Y

2 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W01	324/6T	354.7	317.5 H7	15	Ø45	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	91.0	837	267.7
	364/5T	354.7	317.5 H7	15	Ø45	60.325	+0.0381	279.4	5	142.9	18 (8x)	59.69	12.07	-0.0508	91.0	837	267.7
W02	324/6T	354.7	317.5 H7	15	Ø45	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	91.0	871	296.5
	364/5T	354.7	317.5 H7	15	Ø45	60.325	+0.0381	279.4	5	142.9	18 (8x)	59.69	12.07	-0.0508	91.9	871	296.5
W03	364/5T	354.7	317.5 H7	15	Ø55	60.325	+0.0381	279.4	5	142.9	18 (4x)	59.69	12.07	-0.0508	89.9	903	433.3
	404/5T	394.6	317.5 H7	15	Ø55	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	112.3	958	441.4
W04	364/5T	354.7	317.5 H7	15	Ø55	60.325	+0.0381	279.4	5	142.9	18 (4x)	59.69	12.07	-0.0508	89.9	942	433.2
	404/5T	394.6	317.5 H7	15	Ø55	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	112.3	997	441.3
W05	404/5T	394.6	317.5 H7	15	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	106.8	1063	622.5
	444/5T	454.9	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	139.1	1120	643.0
	445/7T	454.9	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	139.1	1120	643.0
W06	404/5T	394.6	317.5 H7	15	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	106.8	1109	706.0
	444/5T	454.9	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	139.1	1166	726.4
	445/7T	454.9	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	139.1	1166	726.4
W07	445/7T	454.9	406.4 H7	27	Ø80	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.1	1258	1017.7
	447/9T	454.9	406.4 H7	27	Ø80	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	119.1	1258	1017.7
	586/7T	454.9	419.1 H7	27	Ø80	98.425	+0.0381	355.6	5	288.9	18 (8x)	95.50	22.23	-0.0762	203.9	1373	1031.3
W08	445/7T	454.9	406.4 H7	27	Ø80	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.1	1312	1125.6
	447/9T	454.9	406.4 H7	27	Ø80	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	119.1	1312	1125.6
	586/7T	454.9	419.1 H7	27	Ø80	98.425	+0.0381	355.6	5	288.9	18 (8x)	95.50	22.23	-0.0762	203.9	1427	1139.2
W09	445/7T	454.9	406.4 H7	27	Ø90	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.1	1386	1447.3
	447/9T	454.9	406.4 H7	27	Ø90	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	119.1	1386	1447.3
	586/7T	454.9	419.1 H7	27	Ø90	98.425	+0.0381	355.6	5	288.9	18 (8x)	95.50	22.23	-0.0762	223.4	1451	1460.8

ACCESSORIES - ADDITIONAL DIMENSIONS

2 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W10	445/7T	454.9	406.4 H7	27	Ø90	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.1	1418	1520.0
	447/9T	454.9	406.4 H7	27	Ø90	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	119.1	1418	1520.0
	586/7T	454.9	419.1 H7	27	Ø90	98.425	+0.0381	355.6	5	288.9	18 (8x)	95.50	22.23	-0.0762	203.9	1445	1533.5
W11	445/7T	454.9	406.4 H7	27	Ø100	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	120.9	1539	1888.7
	447/9T	454.9	406.4 H7	27	Ø100	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	109.6	1539	1888.7
	586/7T	454.9	419.1 H7	27	Ø100	98.425	+0.0381	355.6	5	288.9	18 (8x)	95.50	22.23	-0.0762	198.9	1654	1902.3
W12	445/7T	454.9	406.4 H7	27	Ø100	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	120.9	1574	2033.5
	447/9T	454.9	406.4 H7	27	Ø100	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	109.6	1574	2033.5
	586/7T	454.9	419.1 H7	27	Ø100	98.425	+0.0381	355.6	5	288.9	18 (8x)	95.50	22.23	-0.0762	198.9	1689	2047.1
W13	447/9T	454.9	406.4 H7	27	Ø120	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	67.1	1642	2711.9
	586/7T	454.9	406.4 H7	27	Ø120	98.425	+0.0381	355.6	5	288.9	18 (8x)	95.50	22.23	-0.0762	178.9	1757	2725.5
W14	447/9T	454.9	406.4 H7	27	Ø120	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	67.1	1683	2967.0
	586/7T	454.9	406.4 H7	27	Ø120	98.425	+0.0381	355.6	5	288.9	18 (8x)	95.50	22.23	-0.0762	178.9	1798	2980.6

10.4.5 Right Angle Shafts K, 3 Stages



Detail Y

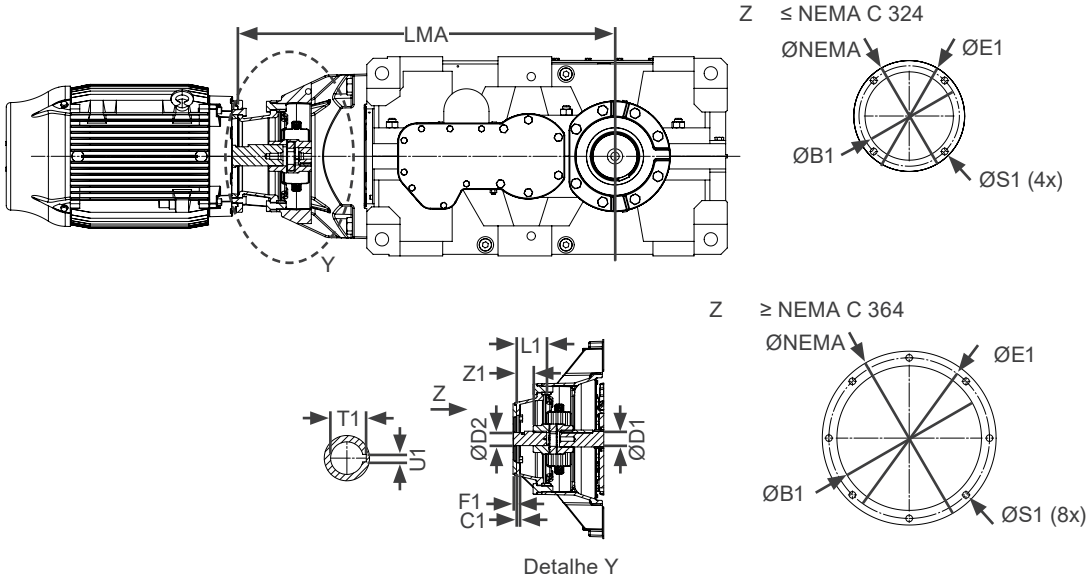
3 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W01	213/5T	240.0	215.9 H7	18	Ø32	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	46.7	741	264.5
	254/6T	235.0	215.9 H7	10	Ø32	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	69.8	794	263.2
	284/6T	280.5	266.7 H7	13	Ø32	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	73.1	799	267.5
	324/6T	354.7	317.5 H7	15	Ø32	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	101.0	837	271.8
W02	213/5T	240.0	215.9 H7	18	Ø32	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	46.7	775	295.1
	254/6T	235.0	215.9 H7	10	Ø32	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	69.8	828	293.8
	284/6T	280.5	266.7 H7	13	Ø32	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	73.1	833	298.2
	324/6T	354.7	317.5 H7	15	Ø32	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	101.0	871	302.4
W03	213/5T	235.0	215.9 H7	10	Ø38	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	52.2	806	388.0
	254/6T	235.0	215.9 H7	10	Ø38	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	60.3	877	388.2
	284/6T	280.5	266.7 H7	13	Ø38	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	64.6	882	392.6
	324/6T	354.7	317.5 H7	15	Ø38	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	91.5	920	396.8
	364/5T	354.7	317.5 H7	15	Ø38	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	86.9	920	397.1
	404/5T	394.6	317.5 H7	15	Ø38	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	101.8	975	405.3
W04	213/5T	235.0	215.9 H7	10	Ø38	34.925	+0.0254	184.2	5	79.2	14 (4x)	84.23	7.94	-0.0508	52.2	916	430.9
	254/6T	235.0	215.9 H7	10	Ø38	41.275	+0.0254	184.2	5	95.3	14 (4x)	100.25	9.53	-0.0508	60.3	916	431.1
	284/6T	280.5	266.7 H7	13	Ø38	47.625	+0.0254	228.6	5	111.1	14 (4x)	116.08	12.07	-0.0508	64.6	921	435.5
	324/6T	354.7	317.5 H7	15	Ø38	53.975	+0.0381	279.4	5	127.0	18 (4x)	132.00	12.07	-0.0508	91.5	959	439.7
	364/5T	354.7	317.5 H7	15	Ø38	60.325	+0.0381	279.4	5	142.9	18 (8x)	147.85	15.88	-0.0508	86.9	959	440.0
	404/5T	394.6	317.5 H7	15	Ø38	73.025	+0.0381	279.4	5	177.8	18 (8x)	182.80	19.05	-0.0508	101.8	1014	448.2

ACCESSORIES - ADDITIONAL DIMENSIONS

3 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W05	254/6T	235.0	215.9 H7	10	Ø45	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	57.3	1021	614.9
	284/6T	280.5	266.7 H7	13	Ø45	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	72.5	1026	619.3
	324/6T	354.7	317.5 H7	15	Ø45	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	88.5	1064	623.6
	364/5T	354.7	317.5 H7	15	Ø45	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	86.9	1064	623.9
	404/5T	394.6	317.5 H7	15	Ø45	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	111.8	1119	632.0
	444/5T	454.9	406.4 H7	27	Ø45	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	144.1	1176	652.4
	447/9T	454.9	406.4 H7	27	Ø45	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	112.6	1176	652.4
W06	254/6T	235.0	215.9 H7	10	Ø45	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	57.3	1067	710.4
	284/6T	280.5	266.7 H7	13	Ø45	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.07	-0.0508	61.1	1072	714.7
	324/6T	354.7	317.5 H7	15	Ø45	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	88.5	1110	719.0
	364/5T	354.7	317.5 H7	15	Ø45	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	86.9	1110	719.3
	404/5T	394.6	317.5 H7	15	Ø45	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	111.8	1165	727.5
	444/5T	454.9	406.4 H7	27	Ø45	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	144.1	1222	747.9
	447/9T	454.9	406.4 H7	27	Ø45	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	112.6	1222	747.9
W07	324/6T	354.7	317.5 H7	15	Ø55	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	97.0	1193	1010.1
	364/5T	354.7	317.5 H7	15	Ø55	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	97.9	1193	1010.4
	404/5T	394.6	317.5 H7	15	Ø55	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	120.3	1248	1018.5
	444/5T	454.9	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	152.6	1305	1039.0
	447/9T	454.9	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	129.6	1305	1039.0
W08	324/6T	354.7	317.5 H7	15	Ø55	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.07	-0.0508	97.0	1229	1135.2
	364/5T	354.7	317.5 H7	15	Ø55	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	97.9	1229	1135.5
	404/5T	394.6	317.5 H7	15	Ø55	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	120.3	1284	1143.7
	444/5T	454.9	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	152.6	1341	1164.1
	447/9T	454.9	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	149.6	1341	1164.1
W09	364/5T	354.7	317.5 H7	15	Ø70	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	89.9	1359	1481.8
	404/5T	394.6	317.5 H7	15	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	124.3	1414	1489.9
	444/5T	454.9	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	154.6	1471	1510.4
	445/7T	454.9	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	156.1	1471	1510.4
	447/9T	454.9	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	138.6	1471	1510.4
	586/7T	454.9	419.1	27	Ø70	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	223.4	1586	1524.0
W10	364/5T	354.7	317.5 H7	15	Ø70	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	89.9	1391	1560.7
	404/5T	394.6	317.5 H7	15	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	124.3	1446	1568.8
	444/5T	454.9	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	154.6	1503	1589.3
	445/7T	454.9	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	156.1	1503	1589.3
	447/9T	454.9	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	138.6	1503	1589.3
	586/7T	454.9	419.1 H7	27	Ø70	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	223.4	1618	1602.9

3 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W11	404/5T	394.6	317.5 H7	15	Ø80	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	122.3	1579	1986.7
	444/5T	454.9	406.4 H7	27	Ø80	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	154.1	1636	2007.2
	445/7T	454.9	406.4 H7	27	Ø80	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	154.1	1636	2007.2
	447/9T	454.9	406.4 H7	27	Ø80	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	136.6	1636	2007.2
	586/7T	454.9	419.1 H7	27	Ø80	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	221.5	1751	2020.8
W12	404/5T	394.6	317.5 H7	15	Ø80	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	122.3	1614	2114.3
	444/5T	454.9	406.4 H7	27	Ø80	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	154.1	1671	2134.7
	445/7T	454.9	406.4 H7	27	Ø80	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	154.1	1671	2134.7
	447/9T	454.9	406.4 H7	27	Ø80	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	136.6	1671	2134.7
	586/7T	454.9	419.1 H7	27	Ø80	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	221.4	1786	2148.3
W13	404/5T	394.6	317.5 H7	15	Ø90	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	115.3	1760	2795.6
	444/5T	454.9	406.4 H7	27	Ø90	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	159.6	1817	2816.0
	445/7T	454.9	406.4 H7	27	Ø90	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	159.6	1817	2816.0
	447/9T	454.9	406.4 H7	27	Ø90	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	142.1	1817	2816.0
	586/7T	454.9	419.1 H7	27	Ø90	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	226.9	1932	2829.6
W14	404/5T	394.6	317.5 H7	15	Ø90	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	115.3	1800	3097.7
	444/5T	454.9	406.4 H7	27	Ø90	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	159.6	1857	3118.1
	445/7T	454.9	406.4 H7	27	Ø90	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	159.6	1857	3118.1
	447/9T	454.9	406.4 H7	27	Ø90	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	142.1	1857	3118.1
	586/7T	454.9	419.1 H7	27	Ø90	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	226.9	1972	3131.7
W15	445/7T	454.9	406.4 H7	27	Ø90	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	155.6	1871	3509.1
	447/9T	454.9	406.4 H7	27	Ø90	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	139.6	1871	3509.1
	586/7T	454.9	419.1 H7	27	Ø90	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	224.4	1986	3523.5
W16	445/7T	454.9	406.4 H7	27	Ø90	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	155.6	1911	3805.4
	447/9T	454.9	406.4 H7	27	Ø90	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	139.6	1911	3805.4
	586/7T	454.9	419.1 H7	27	Ø90	98.425	+0.0381	368.3	5	288.9	18 (8x)	109.58	25.40	-0.0762	224.4	2026	3819.0

10.4.6 Right Angle Shafts K, 4 Stages



Detalhe Y

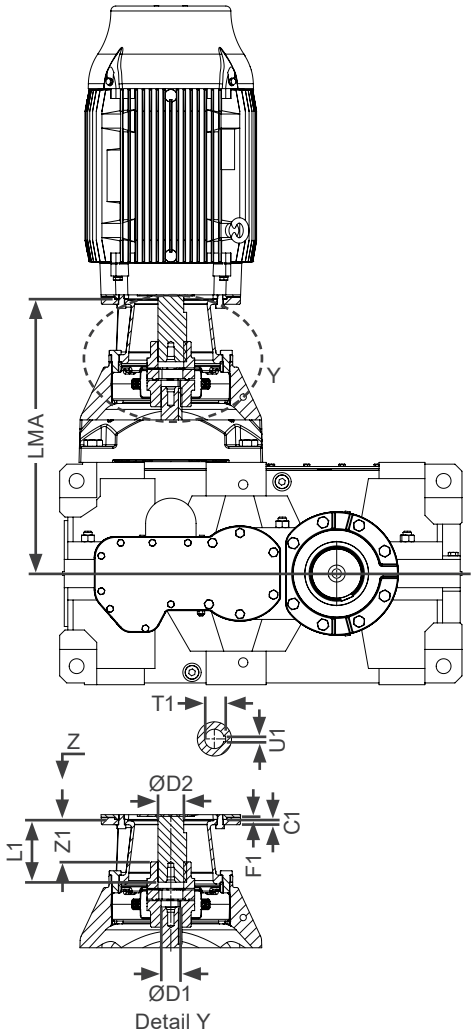
4 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W03	182/4T	240	215.9 H7	18	Ø28	28.575	+0.0254	184.2	5	66.7	14 (4x)	31.52	6.35	-0.0508	31.7	824	386.8
	213/5T	240	215.9 H7	10	Ø28	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	49.2	877	385.3
	254/6T	240	215.9 H7	10	Ø28	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	63.3	877	385.5
	284/6T	281	266.7 H7	13	Ø28	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	67.6	882	389.8
W04	182/4T	240	215.9 H7	18	Ø28	28.575	+0.0254	184.2	5	66.7	14 (4x)	31.52	6.35	-0.0508	31.7	863	419.4
	213/5T	240	215.9 H7	10	Ø28	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	49.2	916	417.9
	254/6T	240	215.9 H7	10	Ø28	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	63.3	916	418.1
	284/6T	281	266.7 H7	13	Ø28	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	67.6	921	422.5
W05	182/4T	240	215.9 H7	18	Ø32	28.575	+0.0254	184.2	5	66.7	14 (4x)	31.52	6.35	-0.0508	44.2	968	608.9
	213/5T	240	215.9 H7	18	Ø32	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	44.2	968	608.9
	254/6T	240	215.9 H7	10	Ø32	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	66.8	1021	607.6
	284/6T	267	266.7 H7	13	Ø32	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	71.6	1026	611.9
	324/6T	355	317.5 H7	15	Ø32	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	98.5	1064	616.2
W06	182/4T	240	215.9 H7	18	Ø32	28.575	+0.0254	184.2	5	66.7	14 (4x)	31.52	6.35	-0.0508	44.2	1014	701.7
	213/5T	240	215.9 H7	18	Ø32	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	44.2	1014	701.7
	254/6T	240	215.9 H7	10	Ø32	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	66.8	1067	700.4
	284/6T	281	266.7 H7	13	Ø32	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	71.6	1072	704.7
	324/6T	355	317.5 H7	15	Ø32	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	98.5	1110	709.0
W07	213/5T	240	215.9 H7	10	Ø38	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	45.7	1150	992.1
	254/6T	240	215.9 H7	10	Ø38	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	59.8	1150	992.3
	284/6T	281	266.7 H7	13	Ø38	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	64.1	1155	996.6
	324/6T	355	317.5 H7	15	Ø38	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	91.0	1193	1000.9
	364/5T	355	317.5 H7	15	Ø38	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	91.9	1193	1001.2

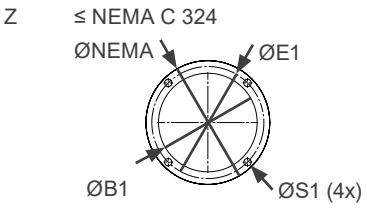
4 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W08	213/5T	240	215.9 H7	10	Ø38	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	45.7	1204	1117.5
	254/6T	240	215.9 H7	10	Ø38	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	59.8	1204	1117.6
	284/6T	281	266.7 H7	13	Ø38	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	64.1	1209	1122.0
	324/6T	355	317.5 H7	15	Ø38	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	91.0	1247	1126.3
	364/5T	355	317.5 H7	15	Ø38	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	91.9	1247	1126.6
W09	254/6T	240	215.9 H7	10	Ø45	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	0.0508	34.3	1316	1469.3
	284/6T	281	266.7 H7	13	Ø45	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	46.1	1321	1473.7
	324/6T	355	317.5 H7	15	Ø45	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	62.0	1359	1478.0
	364/5T	355	317.5 H7	15	Ø45	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	67.9	1359	1478.2
	404/5T	395	317.5 H7	15	Ø45	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	1414	1486.4
	444/5T	455	406.4 H7	27	Ø45	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	133.1	1471	1506.8
W10	254/6T	240	215.9 H7	10	Ø45	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	34.3	1348	1548.4
	284/6T	281	266.7 H7	13	Ø45	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	46.1	1353	1552.7
	324/6T	355	317.5 H7	15	Ø45	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	62.0	1391	1557.0
	364/5T	355	317.5 H7	15	Ø45	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	67.9	1391	1557.3
	404/5T	395	317.5 H7	15	Ø45	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	1446	1565.5
	444/5T	455	406.4 H7	27	Ø45	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	133.1	1503	1585.9
W11	254/6T	240	215.9 H7	10	Ø55	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	53.8	1481	1987.6
	284/6T	281	266.7 H7	13	Ø55	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	64.1	1486	1992.0
	324/6T	355	317.5 H7	15	Ø55	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	91.0	1524	1996.3
	364/5T	355	317.5 H7	15	Ø55	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	91.9	1524	1996.6
	404/5T	395	317.5 H7	15	Ø55	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	114.3	1579	2004.7
	444/5T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	147.1	1636	2025.2
	445/7T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	146.6	1636	2025.2
	447/9T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	128.6	1636	2025.2
W12	254/6T	240	215.9 H7	10	Ø55	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	53.8	1516	2113.6
	284/6T	281	266.7 H7	13	Ø55	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	64.1	1521	2117.9
	324/6T	355	317.5 H7	15	Ø55	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	91.0	1559	2122.2
	364/5T	355	317.5 H7	15	Ø55	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	90.9	1559	2122.5
	404/5T	395	317.5 H7	15	Ø55	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	114.3	1614	2130.7
	444/5T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	147.1	1671	2151.1
	445/7T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	146.6	1671	2151.1
	447/9T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	128.6	1671	2151.1

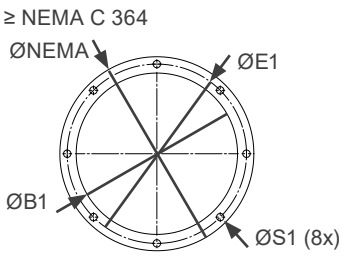
ACCESSORIES - ADDITIONAL DIMENSIONS

4 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W13	254/6T	240	215.9 H7	10	Ø70	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	25.3	1662	2818.3
	284/6T	281	266.7 H7	13	Ø70	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	16.1	1667	2822.7
	324/6T	355	317.5 H7	15	Ø70	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	52.0	1705	2827.0
	364/5T	355	317.5 H7	15	Ø70	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	37.9	1705	2827.3
	404/5T	395	317.5 H7	15	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	1760	2835.4
	444/5T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.1	1817	2855.9
	445/7T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.1	1817	2855.9
	447/9T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	119.6	1817	2855.9
W14	254/6T	240	215.9 H7	10	Ø70	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	25.3	1702	3096.3
	284/6T	281	266.7 H7	13	Ø70	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	16.1	1707	3100.7
	324/6T	355	317.5 H7	15	Ø70	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	52.0	1745	3104.9
	364/5T	355	317.5 H7	15	Ø70	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	37.9	1745	3105.2
	404/5T	395	317.5 H7	15	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	1800	3113.4
	444/5T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.1	1857	3133.8
	445/7T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	0 -0.0762	137.1	1857	3133.8
	447/9T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	119.6	1857	3133.8
W15	324/6T	355	317.5 H7	15	Ø70	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	49.5	1759	3516.9
	364/5T	355	317.5 H7	15	Ø70	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	37.9	1759	3517.1
	404/5T	395	317.5 H7	15	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	1814	3525.3
	444/5T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	134.6	1871	3545.7
	447/9T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	116.6	1871	3545.7
W16	324/6T	355	317.5 H7	15	Ø70	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	49.5	1799	3812.5
	364/5T	355	317.5 H7	15	Ø70	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	37.9	1799	3812.7
	404/5T	395	317.5 H7	15	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	1854	3820.9
	444/5T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	134.6	1911	3841.3
	447/9T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	116.6	1911	3841.3

10.4.7 Right Angle Shafts T, 3 Stages







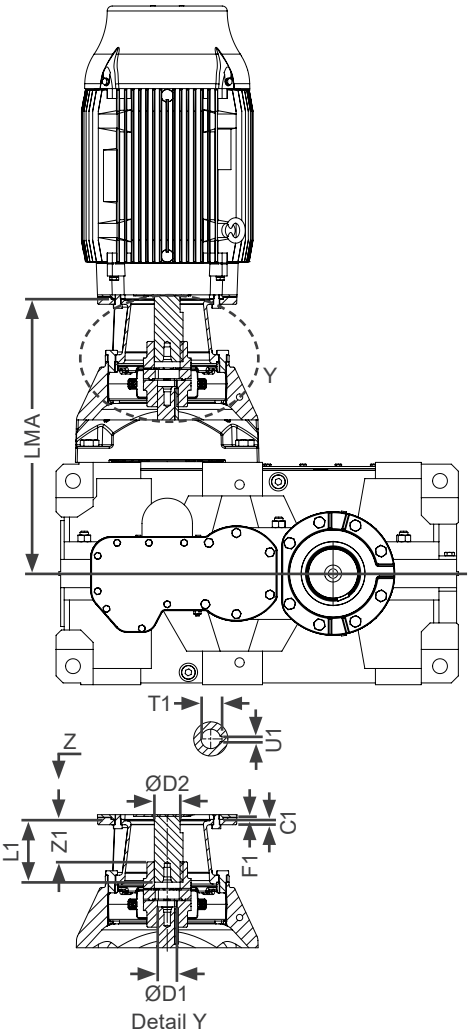
4 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W03	182/4T	240	215.9 H7	18	Ø28	28.575	+0.0254	184.2	5	66.7	14 (4x)	31.52	6.35	-0.0508	31.7	824	386.8
	213/5T	240	215.9 H7	10	Ø28	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	49.2	877	385.3
	254/6T	240	215.9 H7	10	Ø28	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	63.3	877	385.5
	284/6T	281	266.7 H7	13	Ø28	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	67.6	882	389.8
W04	182/4T	240	215.9 H7	18	Ø28	28.575	+0.0254	184.2	5	66.7	14 (4x)	31.52	6.35	-0.0508	31.7	863	419.4
	213/5T	240	215.9 H7	10	Ø28	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	49.2	916	417.9
	254/6T	240	215.9 H7	10	Ø28	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	63.3	916	418.1
	284/6T	281	266.7 H7	13	Ø28	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	67.6	921	422.5
W05	182/4T	240	215.9 H7	18	Ø32	28.575	+0.0254	184.2	5	66.7	14 (4x)	31.52	6.35	-0.0508	44.2	968	608.9
	213/5T	240	215.9 H7	18	Ø32	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	44.2	968	608.9
	254/6T	240	215.9 H7	10	Ø32	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	66.8	1021	607.6
	284/6T	267	266.7 H7	13	Ø32	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	71.6	1026	611.9
	324/6T	355	317.5 H7	15	Ø32	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	98.5	1064	616.2

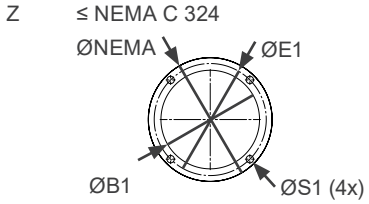
ACCESSORIES - ADDITIONAL DIMENSIONS

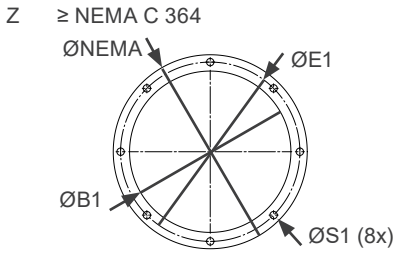
4 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W06	182/4T	240	215.9 H7	18	Ø32	28.575	+0.0254	184.2	5	66.7	14 (4x)	31.52	6.35	-0.0508	44.2	1014	701.7
	213/5T	240	215.9 H7	18	Ø32	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	44.2	1014	701.7
	254/6T	240	215.9 H7	10	Ø32	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	66.8	1067	700.4
	284/6T	281	266.7 H7	13	Ø32	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	71.6	1072	704.7
	324/6T	355	317.5 H7	15	Ø32	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	98.5	1110	709.0
W07	213/5T	240	215.9 H7	10	Ø38	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	45.7	1150	992.1
	254/6T	240	215.9 H7	10	Ø38	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	59.8	1150	992.3
	284/6T	281	266.7 H7	13	Ø38	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	64.1	1155	996.6
	324/6T	355	317.5 H7	15	Ø38	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	91.0	1193	1000.9
	364/5T	355	317.5 H7	15	Ø38	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	91.9	1193	1001.2
W08	213/5T	240	215.9 H7	10	Ø38	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	45.7	1204	1117.5
	254/6T	240	215.9 H7	10	Ø38	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	59.8	1204	1117.6
	284/6T	281	266.7 H7	13	Ø38	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	64.1	1209	1122.0
	324/6T	355	317.5 H7	15	Ø38	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	91.0	1247	1126.3
	364/5T	355	317.5 H7	15	Ø38	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	91.9	1247	1126.6
W09	254/6T	240	215.9 H7	10	Ø45	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	34.3	1316	1469.3
	284/6T	281	266.7 H7	13	Ø45	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	46.1	1321	1473.7
	324/6T	355	317.5 H7	15	Ø45	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	62.0	1359	1478.0
	364/5T	355	317.5 H7	15	Ø45	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	67.9	1359	1478.2
	404/5T	395	317.5 H7	15	Ø45	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	1414	1486.4
	444/5T	455	406.4 H7	27	Ø45	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	133.1	1471	1506.8
W10	254/6T	240	215.9 H7	10	Ø45	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	34.3	1348	1548.4
	284/6T	281	266.7 H7	13	Ø45	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	46.1	1353	1552.7
	324/6T	355	317.5 H7	15	Ø45	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	62.0	1391	1557.0
	364/5T	355	317.5 H7	15	Ø45	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	67.9	1391	1557.3
	404/5T	395	317.5 H7	15	Ø45	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	1446	1565.5
	444/5T	455	406.4 H7	27	Ø45	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	133.1	1503	1585.9
W11	254/6T	240	215.9 H7	10	Ø55	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	53.8	1481	1987.6
	284/6T	281	266.7 H7	13	Ø55	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	64.1	1486	1992.0
	324/6T	355	317.5 H7	15	Ø55	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	91.0	1524	1996.3
	364/5T	355	317.5 H7	15	Ø55	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	91.9	1524	1996.6
	404/5T	395	317.5 H7	15	Ø55	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	114.3	1579	2004.7
	444/5T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	147.1	1636	2025.2
	445/7T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	146.6	1636	2025.2
	447/9T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	128.6	1636	2025.2

4 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W12	254/6T	240	215.9 H7	10	Ø55	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	53.8	1516	2113.6
	284/6T	281	266.7 H7	13	Ø55	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	64.1	1521	2117.9
	324/6T	355	317.5 H7	15	Ø55	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	91.0	1559	2122.2
	364/5T	355	317.5 H7	15	Ø55	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	90.9	1559	2122.5
	404/5T	395	317.5 H7	15	Ø55	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	114.3	1614	2130.7
	444/5T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	147.1	1671	2151.1
	445/7T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	146.6	1671	2151.1
	447/9T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	128.6	1671	2151.1
W13	254/6T	240	215.9 H7	10	Ø70	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	25.3	1662	2818.3
	284/6T	281	266.7 H7	13	Ø70	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	16.1	1667	2822.7
	324/6T	355	317.5 H7	15	Ø70	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	52.0	1705	2827.0
	364/5T	355	317.5 H7	15	Ø70	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	37.9	1705	2827.3
	404/5T	395	317.5 H7	15	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	1760	2835.4
	444/5T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.1	1817	2855.9
	445/7T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.1	1817	2855.9
	447/9T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	119.6	1817	2855.9
W14	254/6T	240	215.9 H7	10	Ø70	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	25.3	1702	3096.3
	284/6T	281	266.7 H7	13	Ø70	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	16.1	1707	3100.7
	324/6T	355	317.5 H7	15	Ø70	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	52.0	1745	3104.9
	364/5T	355	317.5 H7	15	Ø70	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	37.9	1745	3105.2
	404/5T	395	317.5 H7	15	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	1800	3113.4
	444/5T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.1	1857	3133.8
	445/7T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.1	1857	3133.8
	447/9T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	119.6	1857	3133.8
W15	324/6T	355	317.5 H7	15	Ø70	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	49.5	1759	3516.9
	364/5T	355	317.5 H7	15	Ø70	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	37.9	1759	3517.1
	404/5T	395	317.5 H7	15	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	1814	3525.3
	444/5T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	134.6	1871	3545.7
	447/9T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	116.6	1871	3545.7
W16	324/6T	355	317.5 H7	15	Ø70	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	49.5	1799	3812.5
	364/5T	355	317.5 H7	15	Ø70	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	37.9	1799	3812.7
	404/5T	395	317.5 H7	15	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	1854	3820.9
	444/5T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	134.6	1911	3841.3
	447/9T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	116.6	1911	3841.3

10.4.8 Right Angle Shafts T, 4 Stages







4 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W03	182/4T	240	215.9 H7	18	Ø28	28.575	+0.0254	184.2	5	66.7	14 (4x)	31.52	6.35	-0.0508	31.7	486	386.9
	213/5T	240	215.9 H7	10	Ø28	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	49.2	539	385.4
	254/6T	240	215.9 H7	10	Ø28	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	63.3	539	385.6
	284/6T	281	266.7 H7	13	Ø28	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	67.6	544	390.0
W04	182/4T	240	215.9 H7	18	Ø28	28.575	+0.0254	184.2	5	66.7	14 (4x)	31.52	6.35	-0.0508	31.7	486	416.5
	213/5T	240	215.9 H7	10	Ø28	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	49.2	539	415.0
	254/6T	240	215.9 H7	10	Ø28	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	70.8	539	415.2
	284/6T	281	266.7 H7	13	Ø28	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	67.6	544	419.6
W05	182/4T	240	215.9 H7	18	Ø32	28.575	+0.0254	184.2	5	66.7	14 (4x)	31.52	6.35	-0.0508	44.2	570	609.4
	213/5T	240	215.9 H7	18	Ø32	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	44.2	570	609.4
	254/6T	240	215.9 H7	10	Ø32	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	66.8	623	608.1
	284/6T	281	266.7 H7	13	Ø32	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	71.6	628	612.5
	324/6T	355	317.5 H7	15	Ø32	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	98.5	666	616.7

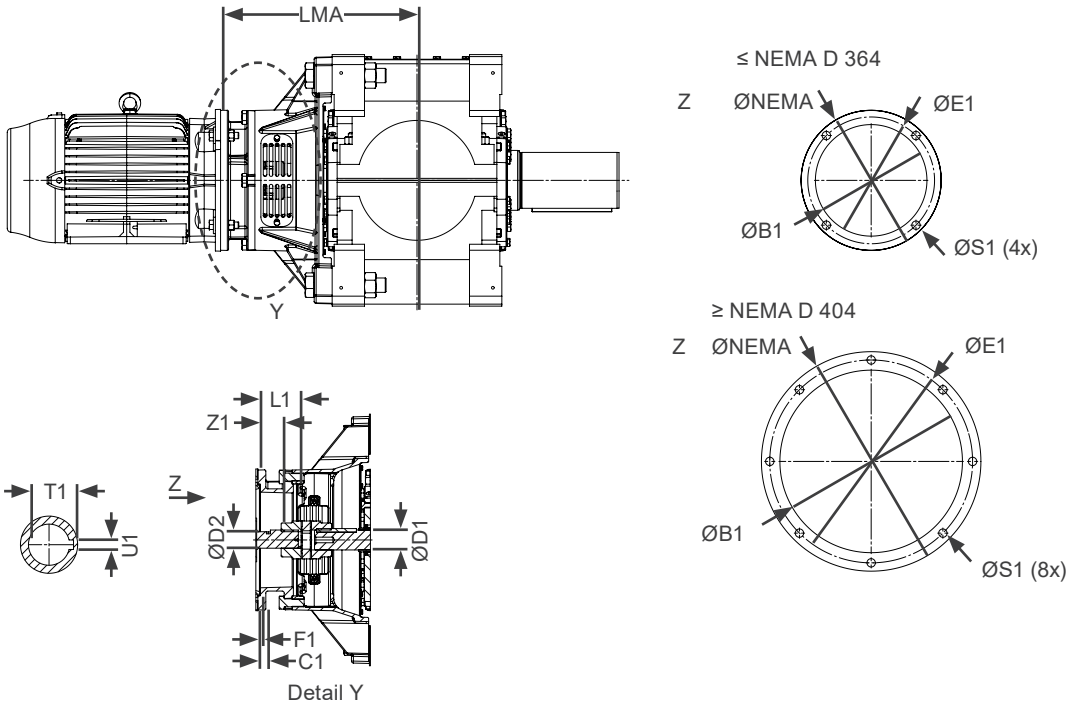
4 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W06	182/4T	240	215.9 H7	18	Ø32	28.575	+0.0254	184.2	5	66.7	14 (4x)	31.52	6.35	-0.0508	44.2	570	697.1
	213/5T	240	215.9 H7	18	Ø32	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	44.2	570	697.1
	254/6T	240	215.9 H7	10	Ø32	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	66.8	623	695.8
	284/6T	281	266.7 H7	13	Ø32	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	71.6	628	700.1
	324/6T	355	317.5 H7	15	Ø32	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	98.5	666	704.4
W07	213/5T	240	215.9 H7	10	Ø38	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	45.7	680	996.7
	254/6T	240	215.9 H7	10	Ø38	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	59.8	680	996.9
	284/6T	281	266.7 H7	13	Ø38	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	64.1	685	1001.3
	324/6T	355	317.5 H7	15	Ø38	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	91.0	723	1005.5
	364/5T	355	317.5 H7	15	Ø38	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	91.9	723	1005.8
W08	213/5T	240	215.9 H7	10	Ø38	34.925	+0.0254	184.2	5	79.2	14 (4x)	38.56	7.94	-0.0508	45.7	680	1112.7
	254/6T	240	215.9 H7	10	Ø38	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	59.8	680	1112.9
	284/6T	281	266.7 H7	13	Ø38	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	64.1	685	1117.2
	324/6T	355	317.5 H7	15	Ø38	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	91.0	723	1121.5
	364/5T	355	317.5 H7	15	Ø38	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	91.9	723	1121.8
W09	254/6T	240	215.9 H7	10	Ø45	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	34.3	768	1473.8
	284/6T	281	266.7 H7	13	Ø45	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	46.1	773	1478.2
	324/6T	355	317.5 H7	15	Ø45	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	62.0	811	1482.5
	364/5T	355	317.5 H7	15	Ø45	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	67.9	811	1482.8
	404/5T	395	317.5 H7	15	Ø45	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	866	1490.9
	444/5T	455	406.4 H7	27	Ø45	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	133.1	923	1511.3
W10	254/6T	240	215.9 H7	10	Ø45	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	34.3	768	1553.5
	284/6T	281	266.7 H7	13	Ø45	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	46.1	773	1557.8
	324/6T	355	317.5 H7	15	Ø45	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	62.0	811	1562.1
	364/5T	355	317.5 H7	15	Ø45	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	67.9	811	1562.4
	404/5T	395	317.5 H7	15	Ø45	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	866	1570.6
	444/5T	455	406.4 H7	27	Ø45	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	133.1	923	1591.0
W11	254/6T	240	215.9 H7	10	Ø55	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	53.8	864	1990.1
	284/6T	281	266.7 H7	13	Ø55	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	64.1	869	1994.4
	324/6T	355	317.5 H7	15	Ø55	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	91.0	907	1998.7
	364/5T	355	317.5 H7	15	Ø55	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	91.9	907	1999.0
	404/5T	395	317.5 H7	15	Ø55	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	114.3	962	2007.2
	444/5T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	147.1	1019	2027.6
	445/7T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	146.6	1019	2027.6
	447/9T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	128.6	1019	2027.6

ACCESSORIES - ADDITIONAL DIMENSIONS

4 Stage	Nema C	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W12	254/6T	240	215.9 H7	10	Ø55	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	53.8	864	2119.7
	284/6T	281	266.7 H7	13	Ø55	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	64.1	869	2124.1
	324/6T	355	317.5 H7	15	Ø55	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	91.0	907	2128.3
	364/5T	355	317.5 H7	15	Ø55	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	91.9	907	2128.6
	404/5T	395	317.5 H7	15	Ø55	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	114.3	962	2136.8
	444/5T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	147.1	1019	2157.2
	445/7T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	146.6	1019	2157.2
	447/9T	455	406.4 H7	27	Ø55	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	128.6	1019	2157.2
W13	254/6T	240	215.9 H7	10	Ø70	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	25.3	955	2826.7
	284/6T	281	266.7 H7	13	Ø70	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	16.1	960	2831.1
	324/6T	355	317.5 H7	15	Ø70	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	52.0	998	2835.4
	364/5T	355	317.5 H7	15	Ø70	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	37.9	998	2835.6
	404/5T	395	317.5 H7	15	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	1053	2843.8
	444/5T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.1	1110	2864.2
	445/7T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.1	1110	2864.2
	447/9T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	119.6	1110	2864.2
W14	254/6T	240	215.9 H7	10	Ø70	41.275	+0.0254	184.2	5	95.3	14 (4x)	45.62	9.53	-0.0508	25.3	955	3104.7
	284/6T	281	266.7 H7	13	Ø70	47.625	+0.0254	228.6	5	111.1	14 (4x)	53.24	12.70	-0.0508	16.1	960	3109.1
	324/6T	355	317.5 H7	15	Ø70	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	52.0	998	3113.4
	364/5T	355	317.5 H7	15	Ø70	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	37.9	998	3113.7
	404/5T	395	317.5 H7	15	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	1053	3121.8
	444/5T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.1	1110	3142.3
	445/7T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	137.1	1110	3142.3
	447/9T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	119.6	1110	3142.3
W15	324/6T	355	317.5 H7	15	Ø70	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	49.5	993	3528.3
	364/5T	355	317.5 H7	15	Ø70	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	37.9	993	3528.6
	404/5T	395	406.4 H7	27	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	1048	3536.8
	444/5T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	134.6	1105	3557.2
	447/9T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	116.6	1105	3557.2
W16	324/6T	355	317.5 H7	15	Ø70	53.975	+0.0381	279.4	5	127.0	18 (4x)	59.69	12.70	-0.0508	49.5	993	3802.7
	364/5T	355	317.5 H7	15	Ø70	60.325	+0.0381	279.4	5	142.9	18 (8x)	67.34	15.88	-0.0508	37.9	993	3803.0
	404/5T	395	406.4 H7	27	Ø70	73.025	+0.0381	279.4	5	177.8	18 (8x)	81.41	19.05	-0.0508	102.8	1048	3811.1
	444/5T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	134.6	1105	3831.6
	447/9T	455	406.4 H7	27	Ø70	85.725	+0.0381	355.6	5	209.6	18 (8x)	95.50	22.23	-0.0762	116.6	1105	3831.6

10.5 NEMA D MOTOR INPUT FLANGE

10.5.1 Parallel Shafts, 2 Stages

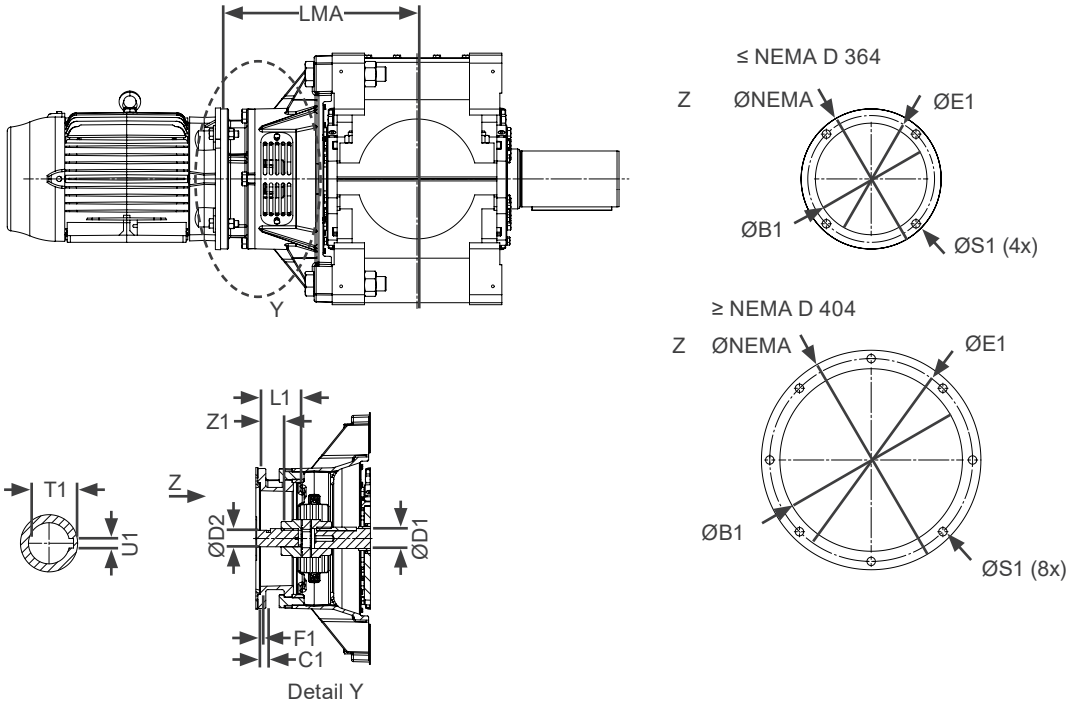


2 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2	+0.0381 0	Ø E1	F1	L1	Ø S1	T1	U1	0 -0.0762	Z1	LMA	kg
W01	254/6T	350	279.4 H7	20	Ø40	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	63.4	405	239.8
	284/6T	350	279.4 H7	20	Ø40	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	67.4	405	244.4
	324/6T	450	355.6 H7	21	Ø40	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	89.5	437	248.6
	364/5T	450	355.6 H7	21	Ø40	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	437	248.6
W02	254/6T	350	279.4 H7	20	Ø40	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	63.4	405	272.1
	284/6T	350	279.4 H7	20	Ø40	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	67.4	405	272.1
	324/6T	450	355.6 H7	21	Ø40	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	89.5	437	280.7
	364/5T	450	355.6 H7	21	Ø40	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	437	280.7
W03	324/6T	450	355.6 H7	21	Ø50	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	91.5	461	416.5
	364/5T	450	355.6 H7	21	Ø50	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	461	416.5
	404/5T	550	457.2 H7	20	Ø50	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	144.2	573	433.2
W04	324/6T	450	355.6 H7	21	Ø50	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	91.5	461	415.6
	364/5T	450	355.6 H7	21	Ø50	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	461	415.6
	404/5T	550	457.2 H7	20	Ø50	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	144.2	573	432.3
W05	404/5T	550	457.2 H7	20	Ø60	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	134.2	614	584.3
	444/5T	550	457.2 H7	20	Ø60	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	614	584.3
	445/7T	550	457.2 H7	20	Ø60	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	614	584.3

ACCESSORIES - ADDITIONAL DIMENSIONS

2 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2	+0.0381 0	Ø E1	F1	L1	Ø S1	T1	U1	0 -0.0762	Z1	LMA	kg
W06	404/5T	550	457.2 H7	20	Ø60	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	134.2	614	666.6
	444/5T	550	457.2 H7	20	Ø60	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	614	666.6
	445/7T	550	457.2 H7	20	Ø60	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	614	666.6
W07	404/5T	550	457.2 H7	20	Ø70	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	133.7	649	938.2
	444/5T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	136.9	649	938.2
	445/7T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	136.9	649	938.2
	447/9T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	115.9	649	938.2
	586/7T	815	711.2 H7	20	Ø70	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	208.9	774	995.4
W08	404/5T	550	457.2 H7	20	Ø70	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	133.7	649	1046.3
	444/5T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	136.9	649	1046.3
	445/7T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	136.9	649	1046.3
	447/9T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	115.9	649	1046.3
	586/7T	815	711.2 H7	20	Ø70	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	208.9	774	1103.4
W09	445/7T	550	457.2 H7	20	Ø80	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	709	1317.7
	447/9T	550	457.2 H7	20	Ø80	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	120.4	709	1317.7
	586/7T	815	711.2 H7	20	Ø80	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	209.3	834	1374.8
W10	445/7T	550	457.2 H7	20	Ø80	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	709	1397.7
	447/9T	550	457.2 H7	20	Ø80	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	120.4	709	1397.7
	586/7T	815	711.2 H7	20	Ø80	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	209.3	834	1454.8
W11	445/7T	550	457.2 H7	20	Ø95	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	729	1761.1
	447/9T	550	457.2 H7	20	Ø95	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	119.9	729	1761.1
	586/7T	815	711.2 H7	20	Ø95	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	209.3	854	1818.3
W12	445/7T	550	457.2 H7	20	Ø95	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	729	1888.3
	447/9T	550	457.2 H7	20	Ø95	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	119.9	729	1888.3
	586/7T	815	711.2 H7	20	Ø95	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	209.3	854	1945.4
W13	445/7T	550	457.2 H7	20	Ø105	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	115.9	794	2499.5
	447/9T	550	457.2 H7	20	Ø105	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	115.9	794	2499.5
	586/7T	815	711.2 H7	20	Ø105	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	204.8	919	2556.7
W14	445/7T	550	457.2 H7	20	Ø105	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	115.9	794	2780.5
	447/9T	550	457.2 H7	20	Ø105	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	115.9	794	2780.5
	586/7T	815	711.2 H7	20	Ø105	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	204.8	919	2780.5
W15	447/9T	550	457.2 H7	20	Ø115	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	114.9	860	3225.1
	586/7T	815	711.2 H7	20	Ø115	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	217.8	985	3282.3
W16	447/9T	550	457.2 H7	20	Ø115	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	114.9	860	3522.4
	586/7T	815	711.2 H7	20	Ø115	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	217.8	985	3579.5

10.5.2 Parallel Shafts, 3 Stage



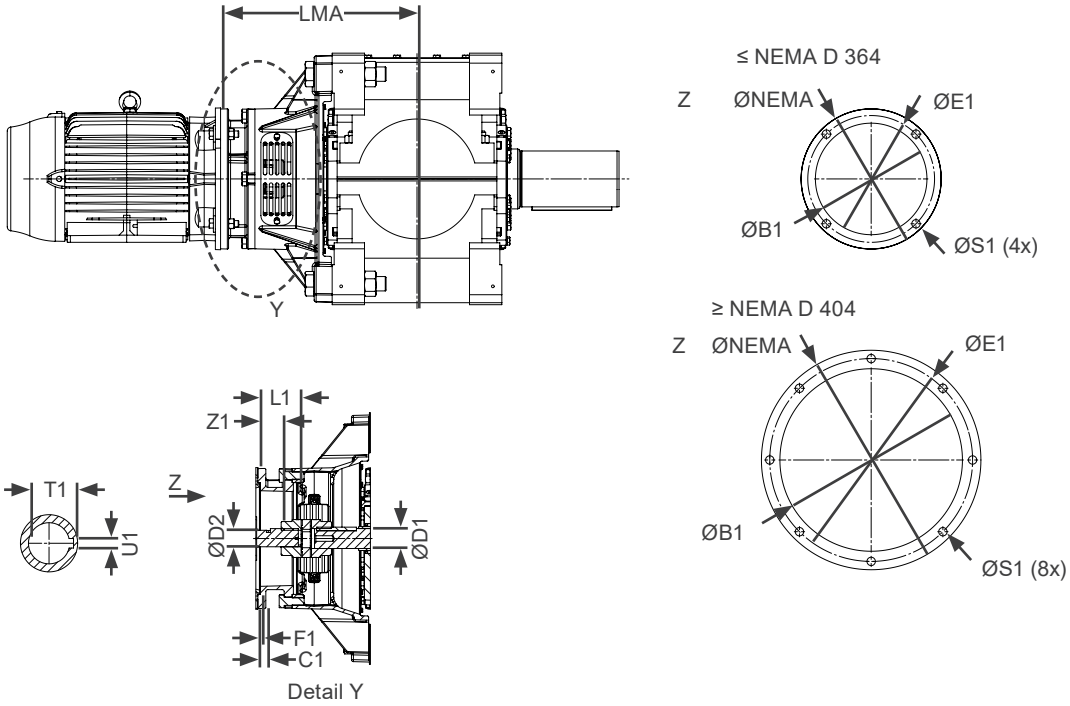
3 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W01	213	281	228.6 H7	15	Ø32	34.925	+0.0254	254.0	6	85.5	14 (4x)	38.56	7.94	-0.0508	56.5	388	256.1
	254	350	279.4 H7	20	Ø32	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	66.4	385	258.6
	284	350	279.4 H7	20	Ø32	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	67.4	385	258.6
	324	450	355.6 H7	21	Ø32	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	94.5	418	267.2
W02	213	281	228.6 H7	15	Ø32	34.925	+0.0254	254.0	6	85.5	14 (4x)	38.56	7.94	-0.0508	56.5	388	286.4
	254	350	279.4 H7	20	Ø32	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	66.4	385	288.8
	284	350	279.4 H7	20	Ø32	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	67.4	385	288.8
	324	450	355.6 H7	21	Ø32	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	89.5	418	297.4
W03	213	281	228.6 H7	12	Ø38	34.925	+0.0254	254.0	6	85.5	14 (4x)	38.56	7.94	-0.0508	59.0	413	377.6
	254	350	279.4 H7	20	Ø38	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	69.9	412	382.1
	284	350	279.4 H7	20	Ø38	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	70.9	412	382.1
	324	450	355.6 H7	21	Ø38	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	97.5	444	390.7
	364	450	355.6 H7	21	Ø38	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	444	390.7
	404	550	457.2 H7	20	Ø38	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	150.2	556	407.4
W04	213	281	228.6 H7	12	Ø38	34.925	+0.0254	254.0	6	85.5	14 (4x)	38.56	7.94	-0.0508	59.0	413	419.9
	254	350	279.4 H7	20	Ø38	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	69.9	412	424.5
	284	350	279.4 H7	20	Ø38	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	70.9	412	424.5
	324	450	355.6 H7	21	Ø38	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	97.5	444	433.1
	364	450	355.6 H7	21	Ø38	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	444	433.1
	404	550	457.2 H7	20	Ø38	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	150.2	556	449.7

ACCESSORIES - ADDITIONAL DIMENSIONS

3 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W05	254	350	279.4 H7	20	Ø45	41.275	+0.0254	317.5	6	101.6	21 (4x)	45.62	9.53	-0.0508	63.6	455	592.3
	284	350	279.4 H7	20	Ø45	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	65.9	455	592.3
	324	450	355.6 H7	22	Ø45	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	90.5	489	601.9
	364	450	355.6 H7	22	Ø45	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	489	601.9
	404	550	457.2 H7	20	Ø45	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	141.7	599	617.6
	444	550	457.2 H7	20	Ø45	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	143.9	599	617.6
W06	254	350	279.4 H7	20	Ø45	41.275	+0.0254	317.5	6	101.6	21 (4x)	45.62	9.53	-0.0508	63.6	564	681.5
	284	350	279.4 H7	20	Ø45	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	65.9	564	681.5
	324	450	355.6 H7	22	Ø45	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	90.5	564	691.1
	364	450	355.6 H7	22	Ø45	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	564	691.1
	404	550	457.2 H7	20	Ø45	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	141.7	564	706.8
	444	550	457.2 H7	20	Ø45	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	143.9	564	706.8
W07	254	350	279.4 H7	20	Ø50	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	58.4	492	969.3
	284	350	279.4 H7	20	Ø50	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	66.4	492	969.3
	324	450	355.6 H7	22	Ø50	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	91.5	526	979.0
	364	450	355.6 H7	22	Ø50	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	526	979.0
	404	550	457.2 H7	20	Ø50	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	142.7	636	994.6
	444	550	457.2 H7	20	Ø50	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	142.9	636	994.6
	447	550	457.2 H7	20	Ø50	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	70.9	636	994.6
W08	254	350	279.4 H7	20	Ø50	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	58.4	492	1095.1
	284	350	279.4 H7	20	Ø50	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	66.4	492	1095.1
	324	450	355.6 H7	22	Ø50	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	91.5	526	1104.8
	364	450	355.6 H7	22	Ø50	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	526	1104.8
	404	550	457.2 H7	20	Ø50	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	142.7	636	1120.4
	444	550	457.2 H7	20	Ø50	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	142.9	636	1120.4
	447	550	457.2 H7	20	Ø50	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	70.9	636	1120.4
W09	324	450	355.6 H7	22	Ø60	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	54.5	569	1428.9
	364	450	355.6 H7	22	Ø60	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	44.7	569	1428.9
	404	550	457.2 H7	20	Ø60	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	159.8	679	1444.5
	444	550	457.2 H7	20	Ø60	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	139.9	679	1444.5
	447	550	457.2 H7	20	Ø60	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	122.4	679	1444.5
W10	324	450	355.6 H7	22	Ø60	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	54.5	569	1509.1
	364	450	355.6 H7	22	Ø60	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	44.7	569	1059.1
	404	550	457.2 H7	20	Ø60	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	159.8	679	1524.8
	444	550	457.2 H7	20	Ø60	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	139.9	679	1524.8
	447	550	457.2 H7	20	Ø60	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	122.4	679	1524.8

3 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W11	364	450	355.6 H7	22	Ø65	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	40.7	590	1918.0
	404	450	355.6 H7	20	Ø65	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	137.2	700	1933.7
	444	550	457.2 H7	20	Ø65	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	140.4	700	1933.7
	445	550	457.2 H7	20	Ø65	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	140.4	700	1933.7
	447	550	457.2 H7	20	Ø65	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	119.9	700	1933.7
	586	815	711.2 H7	20	Ø65	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	207.8	825	1990.8
W12	364	450	355.6 H7	22	Ø65	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	40.7	590	2043.1
	404	450	355.6 H7	20	Ø65	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	137.2	700	2058.8
	444	550	457.2 H7	20	Ø65	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	140.4	700	2058.8
	445	550	457.2 H7	20	Ø65	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	140.4	700	2058.8
	447	550	457.2 H7	20	Ø65	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	119.9	700	2058.7
	586	815	711.2 H7	20	Ø65	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	207.8	825	2115.9
W13	404	450	457.2 H7	20	Ø75	73.025	+0.0381	508.0	6	177.8	21 (8x)	81.41	19.05	-0.0508	109.8	682	2719.1
	444	550	457.2 H7	20	Ø75	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	142.4	734	2719.1
	445	550	457.2 H7	20	Ø75	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	142.4	734	2719.1
	447	550	457.2 H7	20	Ø75	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	115.9	734	2719.1
	586	815	711.2 H7	20	Ø75	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	200.3	859	2776.2
W14	404	450	457.2 H7	20	Ø75	73.025	+0.0381	508.0	6	177.8	21 (8x)	81.41	19.05	-0.0508	109.8	682	2993.9
	444	550	457.2 H7	20	Ø75	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	142.4	734	2993.9
	445	550	457.2 H7	20	Ø75	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	142.4	734	2993.9
	447	550	457.2 H7	20	Ø75	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	115.9	734	2993.9
	586	815	711.2 H7	20	Ø75	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	200.3	859	3051.0
W15	404	450	457.2 H7	20	Ø75	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	143.2	773	3429.4
	444	550	457.2 H7	20	Ø75	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	146.9	773	3415.0
	445	550	457.2 H7	20	Ø75	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	146.9	773	3415.0
	447	550	457.2 H7	20	Ø75	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	127.9	773	3415.0
	586	815	711.2 H7	20	Ø75	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	218.4	898	3472.1
W16	404	450	457.2 H7	20	Ø75	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	143.2	773	3720.8
	444	550	457.2 H7	20	Ø75	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	146.9	773	3706.4
	445	550	457.2 H7	20	Ø75	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	146.9	773	3706.4
	447	550	457.2 H7	20	Ø75	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	127.9	773	3706.4
	586	815	711.2 H7	20	Ø75	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	218.4	898	3763.6

10.5.3 Parallel Shafts, 4 Stage



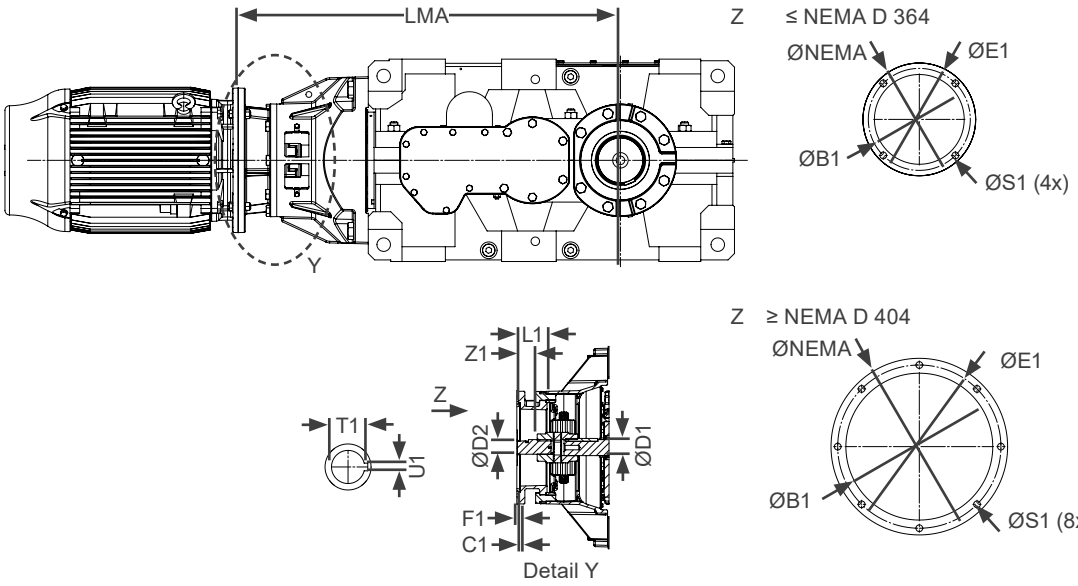
4 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W03	182/4T	285	228.6 H7	22	Ø25	28.575	+0.0254	254.0	6	69.5	21 (4x)	31.52	6.35	-0.0508	43.5	343	379.2
	213/5T	285	228.6 H7	22	Ø25	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	-0.0508	50.5	343	379.2
	254/6T	350	279.4 H7	20	Ø25	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	68.9	412	386.2
	284/6T	350	279.4 H7	20	Ø25	47.625	+0.0381	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	89.9	412	386.2
W04	182/4T	285	228.6 H7	22	Ø25	28.575	+0.0254	254.0	6	69.5	21 (4x)	31.52	6.35	-0.0508	43.5	343	421.7
	213/5T	285	228.6 H7	22	Ø25	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	0.0508	50.5	343	421.7
	254/6T	350	279.4 H7	20	Ø25	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	68.9	412	428.8
	284/6T	350	279.4 H7	20	Ø25	47.625	+0.0381	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	89.9	412	428.8
W05	182/4T	285	228.6 H7	22	Ø30	28.575	+0.0254	254.0	6	69.5	21 (4x)	31.52	6.35	-0.0508	40.0	386	596.4
	213/5T	285	228.6 H7	22	Ø30	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	-0.0508	40.5	386	596.4
	254/6T	350	279.4 H7	20	Ø30	41.275	+0.0254	317.5	6	101.6	21 (4x)	45.62	9.53	-0.0508	76.6	455	603.5
	284/6T	350	279.4 H7	20	Ø30	47.625	+0.0381	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	78.4	453	603.5
	324/6T	450	355.6 H7	22	Ø30	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	103.5	487	613.1
W06	182/4T	285	228.6 H7	22	Ø30	28.575	+0.0254	254.0	6	69.5	21 (4x)	31.52	6.35	-0.0508	40.0	386	683.5
	213/5T	285	228.6 H7	22	Ø30	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	-0.0508	40.5	386	683.5
	254/6T	350	279.4 H7	20	Ø30	41.275	+0.0254	317.5	6	101.6	21 (4x)	45.62	9.53	-0.0508	76.6	455	690.6
	284/6T	350	279.4 H7	20	Ø30	47.625	+0.0381	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	78.4	453	690.6
	324/6T	450	355.6 H7	22	Ø30	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	103.5	487	700.2

4 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W07	213/5T	285	228.6 H7	22	Ø35	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	-0.0508	39.5	423	970.0
	254/6T	350	279.4 H7	20	Ø35	41.275	+0.0254	317.5	6	101.5	21 (4x)	45.62	9.53	-0.0508	71.4	492	977.0
	284/6T	350	279.4 H7	20	Ø35	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	79.4	492	977.0
	324/6T	450	355.6 H7	22	Ø35	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	104.5	526	986.7
	364/5T	450	355.6 H7	22	Ø35	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	105.2	526	986.7
	404/5T	550	457.2 H7	20	Ø35	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	145.2	636	1002.3
	444/5T	550	457.2 H7	20	Ø35	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	160.9	636	1002.3
W08	213/5T	285	228.6 H7	22	Ø35	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	-0.0508	39.5	432	1085.5
	254/6T	350	279.4 H7	20	Ø35	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	71.4	492	1092.6
	284/6T	350	279.4 H7	20	Ø35	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	79.4	492	1092.6
	324/6T	450	355.6 H7	22	Ø35	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	104.5	526	1102.2
	364/5T	450	355.6 H7	22	Ø35	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	105.2	526	1102.2
	404/5T	550	457.2 H7	20	Ø35	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	145.2	636	1117.9
	444/5T	550	457.2 H7	20	Ø35	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	160.9	636	1117.9
W09	254/6T	350	279.4 H7	20	Ø40	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	75.6	535	1430.4
	284/6T	350	279.4 H7	20	Ø40	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	84.9	535	1430.4
	324/6T	450	355.6 H7	20	Ø40	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	100.5	569	1440.0
	364/5T	450	355.6 H7	22	Ø40	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	101.7	569	1440.0
	404/5T	450	457.2 H7	20	Ø40	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	141.7	679	1455.7
	444/5T	550	457.2 H7	20	Ø40	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	154.9	679	1455.7
W10	254/6T	350	279.4 H7	20	Ø40	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	75.6	535	1511.5
	284/6T	350	279.4 H7	20	Ø40	47.625	+0.0254	317.5	6	177.4	21 (4x)	59.69	12.07	-0.0508	84.9	569	1511.5
	324/6T	450	355.6 H7	20	Ø40	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	100.5	569	1521.2
	364/5T	450	355.6 H7	22	Ø40	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	101.7	569	1521.2
	404/5T	450	457.2 H7	20	Ø40	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	141.7	679	1536.8
	444/5T	550	457.2 H7	20	Ø40	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	154.9	679	1536.8
W11	254/6T	350	279.4 H7	20	Ø45	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	71.9	556	1943.8
	284/6T	350	279.4 H7	20	Ø45	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	76.4	556	1943.8
	324/6T	450	355.6 H7	20	Ø45	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	99.5	590	1953.4
	364/5T	450	355.6 H7	22	Ø45	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	102.2	590	1953.4
	404/5T	450	457.2 H7	20	Ø45	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	139.2	700	1969.1
	444/5T	550	457.2 H7	20	Ø45	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	155.4	700	1969.1
W12	254/6T	350	279.4 H7	20	Ø45	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	71.9	556	2066.0
	284/6T	350	279.4 H7	20	Ø45	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	76.4	556	2066.0
	324/6T	450	355.6 H7	20	Ø45	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	99.5	590	2075.6
	364/5T	450	355.6 H7	22	Ø45	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	102.2	590	2075.6
	404/5T	450	457.2 H7	20	Ø45	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	139.2	700	2091.2
	444/5T	550	457.2 H7	20	Ø45	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	155.4	700	2091.2

ACCESSORIES - ADDITIONAL DIMENSIONS

4 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W13	254/6T	350	279.4 H7	20	Ø55	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	67.9	590	2739.3
	284/6T	350	279.4 H7	20	Ø55	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	76.4	590	2739.3
	324/6T	450	355.6 H7	20	Ø55	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	101.5	624	2748.9
	364/5T	450	355.6 H7	22	Ø55	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	102.2	624	2748.9
	404/5T	450	457.2 H7	20	Ø55	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	141.2	734	2764.6
	444/5T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	157.4	734	2764.6
	445/7T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	157.4	734	2764.6
	447/9T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	139.9	734	2764.6
W14	254/6T	350	279.4 H7	20	Ø55	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	67.9	590	3016.8
	284/6T	350	279.4 H7	20	Ø55	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	76.4	590	3016.8
	324/6T	450	355.6 H7	20	Ø55	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	101.5	624	3026.4
	364/5T	450	355.6 H7	22	Ø55	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	102.2	624	3026.4
	404/5T	450	457.2 H7	20	Ø55	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	141.2	734	3042.1
	444/5T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	157.4	734	3042.1
	445/7T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	157.4	734	3042.1
	447/9T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	139.9	734	3042.1
W15	324/6T	450	355.6 H7	20	Ø60	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	85.5	663	3451.7
	364/5T	450	355.6 H7	22	Ø60	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	661	3451.7
	404/5T	450	457.2 H7	20	Ø60	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	143.2	773	3467.3
	444/5T	550	457.2 H7	20	Ø60	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	146.9	773	3467.3
	445/7T	550	457.2 H7	20	Ø60	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	146.9	773	3467.3
	447/9T	550	457.2 H7	20	Ø60	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	129.4	773	3467.3
W16	324/6T	450	355.6 H7	20	Ø60	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	85.5	543	3720.4
	364/5T	450	355.6 H7	22	Ø60	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	661	3746.8
	404/5T	450	457.2 H7	20	Ø60	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	143.2	773	3762.5
	444/5T	550	457.2 H7	20	Ø60	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	146.9	773	3762.5
	445/7T	550	457.2 H7	20	Ø60	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	146.9	773	3762.5
	447/9T	550	457.2 H7	20	Ø60	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	129.4	773	3762.5

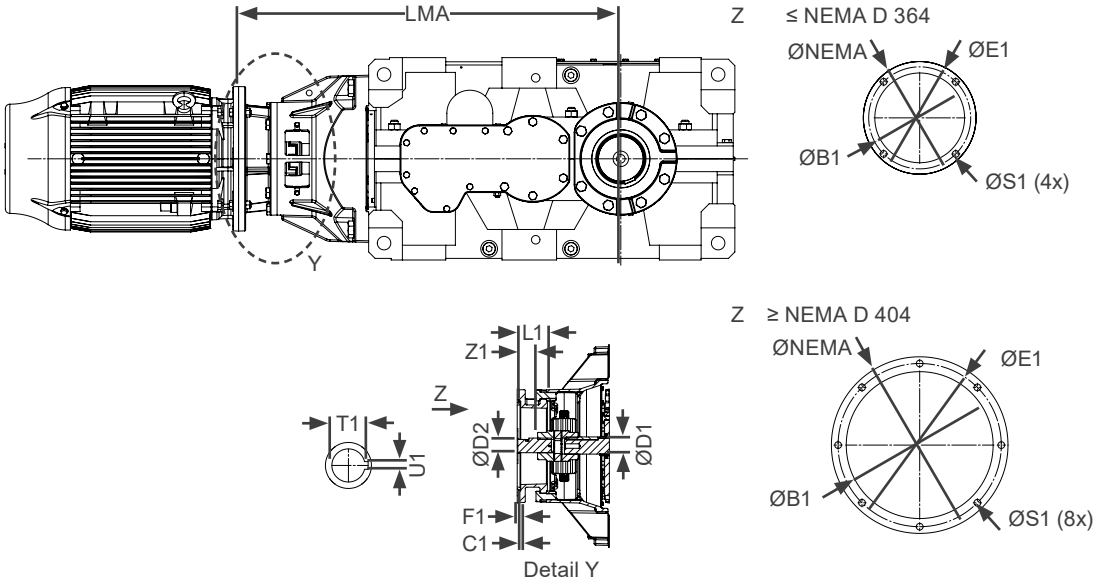
10.5.4 Right Angle Shafts K, 2 Stages



3 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W01	324/6T	450	355.6 H7	22	Ø45	53.975	+0.0381 0	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	92.5	834	275.0
	364/5T	450	355.6 H7	22	Ø45	60.325	+0.0381 0	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	834	275.0
W02	324/6T	450	355.6 H7	22	Ø45	53.975	+0.0381 0	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	92.5	868	303.7
	364/5T	450	355.6 H7	22	Ø45	60.325	+0.0381 0	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	868	303.7
W03	364/5T	450	355.6 H7	22	Ø55	60.325	+0.0381 0	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	91.7	850	440.2
	404/5T	550	457.2 H7	20	Ø55	73.025	+0.0381 0	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	141.7	960	445.9
W04	364/5T	450	355.6 H7	22	Ø55	60.325	+0.0381 0	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	91.7	939	440.1
	404/5T	550	457.2 H7	20	Ø55	73.025	+0.0381 0	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	141.7	1049	455.7
W05	404/5T	550	457.2 H7	20	Ø70	73.025	+0.0381 0	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	136.2	1115	637.0
	444/5T	550	457.2 H7	20	Ø70	85.725	+0.0381 0	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	139.4	1115	637.0
	445/7T	550	457.2 H7	20	Ø70	85.725	+0.0381 0	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	139.4	1115	637.0
W06	404/5T	550	457.2 H7	20	Ø70	73.025	+0.0381 0	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	136.2	1161	720.4
	444/5T	550	457.2 H7	20	Ø70	85.725	+0.0381 0	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	139.4	1161	720.4
	445/7T	550	457.2 H7	20	Ø70	85.725	+0.0381 0	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	139.4	1161	720.4
W07	445/7T	550	457.2 H7	20	Ø80	85.725	+0.0381 0	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	1253	1011.7
	447/9T	550	457.2 H7	20	Ø80	85.725	+0.0381 0	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	119.9	1253	1011.7
	586/7T	815	711.2 H7	20	Ø80	98.425	+0.0381 0	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	209.3	1378	1068.9
W08	445/7T	550	457.2 H7	20	Ø80	85.725	+0.0381 0	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	1307	1119.6
	447/9T	550	457.2 H7	20	Ø80	85.725	+0.0381 0	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	119.9	1307	1119.6
	586/7T	815	711.2 H7	20	Ø80	98.425	+0.0381 0	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	209.3	1432	1176.7
W09	445/7T	550	457.2 H7	20	Ø90	85.725	+0.0381 0	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	1381	1441.3
	447/9T	550	457.2 H7	20	Ø90	85.725	+0.0381 0	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	119.9	1381	1441.3
	586/7T	815	711.2 H7	20	Ø90	98.425	+0.0381 0	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	209.8	1506	1498.4

3 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W10	445/7T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	1413	1513.9
	447/9T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	119.9	1413	1514.0
	586/7T	815	711.2 H7	20	Ø90	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	209.8	1538	1571.1
W11	445/7T	550	457.2 H7	20	Ø100	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	115.9	1534	1882.7
	447/9T	550	457.2 H7	20	Ø100	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	115.9	1534	1882.7
	586/7T	815	711.2 H7	20	Ø100	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	242.9	1604	1939.8
W12	445/7T	550	457.2 H7	20	Ø100	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	115.9	1569	2027.5
	447/9T	550	457.2 H7	20	Ø100	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	115.9	1569	2027.5
	586/7T	815	711.2 H7	20	Ø100	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	204.3	1694	2084.6
W13	447/9T	550	457.2 H7	20	Ø120	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	61.9	1637	2705.9
	586/7T	815	711.2 H7	20	Ø120	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	185.3	1762	2763.0
W14	447/9T	550	457.2 H7	20	Ø120	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	61.9	1678	2961.0
	586/7T	815	711.2 H7	20	Ø120	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	185.3	1803	3018.1

10.5.5 Right Angle Shafts K, 3 Stages



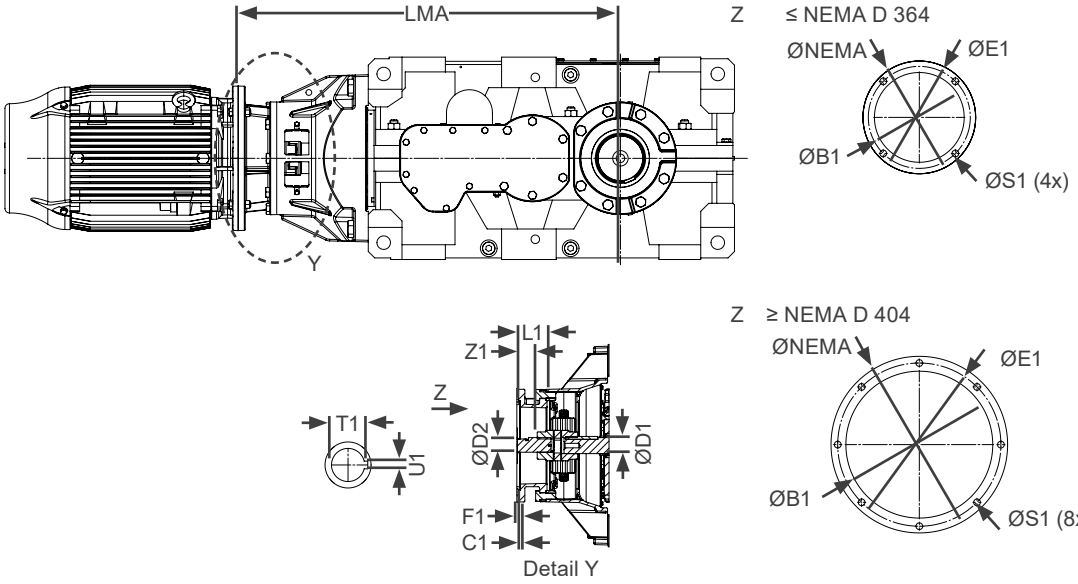
3 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W01	213/5T	281	228.6 H7	12	Ø32	34.925	+0.0254	254.0	6	85.5	14 (4x)	38.56	7.94	-0.0508	62.0	801	264.9
	254/6T	350	279.4 H7	20	Ø32	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	73.4	800	269.4
	284/6T	350	279.4 H7	20	Ø32	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	77.4	800	269.4
	324/6T	450	355.6 H7	22	Ø32	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	107.5	834	279.0
W02	213/5T	281	228.6 H7	12	Ø32	34.925	+0.0254	254.0	6	85.5	14 (4x)	38.56	7.94	-0.0508	62.0	835	295.5
	254/6T	350	279.4 H7	20	Ø32	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	73.4	834	300.0
	284/6T	350	279.4 H7	20	Ø32	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	77.4	834	300.0
	324/6T	450	355.6 H7	22	Ø32	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	107.5	868	309.7

3 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W03	213/5T	281	228.6 H7	12	Ø38	34.925	+0.0254	254.0	6	85.5	14 (4x)	38.56	7.94	-0.0508	58.5	884	389.9
	254/6T	350	279.4 H7	20	Ø38	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	65.4	883	394.4
	284/6T	350	279.4 H7	17	Ø38	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	87.4	922	396.4
	324/6T	450	355.6 H7	22	Ø38	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	92.5	917	404.1
	364/5T	450	355.6 H7	22	Ø38	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	92.2	915	404.1
	404/5T	550	457.2 H7	20	Ø38	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	141.2	1027	419.7
W04	213/5T	281	228.6 H7	12	Ø38	34.925	+0.0254	254.0	6	85.5	14 (4x)	38.56	7.94	-0.0508	58.5	923	432.8
	254/6T	350	279.4 H7	20	Ø38	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	65.4	922	437.3
	284/6T	350	279.4 H7	17	Ø38	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	87.4	961	439.2
	324/6T	450	355.6 H7	22	Ø38	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	92.5	956	447.0
	364/5T	450	355.6 H7	22	Ø38	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	92.2	954	447.0
	404/5T	550	457.2 H7	20	Ø38	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	141.2	1066	462.6
W05	254/6T	350	279.4 H7	20	Ø45	41.275	+0.0254	317.5	6	100.3	21 (4x)	45.62	9.53	-0.0508	62.3	1026	621.2
	284/6T	350	279.4 H7	20	Ø45	47.625	+0.0254	317.5	6	116.1	21 (4x)	53.24	12.07	-0.0508	66.1	1031	621.2
	324/6T	450	355.6 H7	22	Ø45	53.975	+0.0381	406.0	6	132.0	21 (4x)	59.69	12.07	-0.0508	93.5	1069	630.8
	364/5T	450	355.6 H7	22	Ø45	60.325	+0.0381	406.0	6	147.9	21 (8x)	67.34	15.88	-0.0508	91.9	1069	630.8
	404/5T	550	457.2 H7	20	Ø45	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	141.2	1171	648.3
	444/5T	550	457.2 H7	20	Ø45	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	142.9	1171	648.3
	447/9T	550	457.2 H7	20	Ø45	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	70.9	1171	648.3
W06	254/6T	350	279.4 H7	20	Ø45	41.275	+0.0254	317.5	6	101.6	21 (4x)	45.62	9.53	-0.0508	63.1	1073	716.6
	284/6T	350	279.4 H7	20	Ø45	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	67.4	1073	716.6
	324/6T	450	355.6 H7	22	Ø45	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	90.0	1107	726.2
	364/5T	450	355.6 H7	22	Ø45	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	1107	726.2
	404/5T	550	457.2 H7	20	Ø45	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	141.2	1217	743.7
	444/5T	550	457.2 H7	20	Ø45	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	142.9	1217	743.7
	447/9T	550	457.2 H7	20	Ø45	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	70.9	1217	743.7
W07	324/6T	450	355.6 H7	22	Ø55	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	98.5	1190	1017.3
	364/5T	450	355.6 H7	22	Ø55	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	99.2	1190	1017.3
	404/5T	550	457.2 H7	20	Ø55	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	144.2	1300	1033.0
	444/5T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	152.9	1300	1033.0
	447/9T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	123.9	1300	1033.0
W08	324/6T	450	355.6 H7	22	Ø55	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	98.5	1226	1142.4
	364/5T	450	355.6 H7	22	Ø55	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	99.2	1226	1142.4
	404/5T	550	457.2 H7	20	Ø55	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	144.2	1336	1158.1
	444/5T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	152.9	1336	1158.1
	447/9T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	123.9	1336	1158.1

ACCESSORIES - ADDITIONAL DIMENSIONS

3 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W09	364/5T	450	355.6 H7	22	Ø70	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	90.7	1356	1488.7
	404/5T	450	457.2 H7	20	Ø70	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	153.7	1466	1504.4
	444/5T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	156.9	1466	1504.4
	445/7T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	156.9	1466	1509.3
	447/9T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	139.4	1466	1504.4
	586/7T	815	711.2 H7	20	Ø70	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	228.8	1591	1561.5
W10	364/5T	450	355.6 H7	22	Ø70	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	90.7	1388	1567.7
	404/5T	450	457.2 H7	20	Ø70	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	153.7	1498	1583.3
	444/5T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	156.9	1498	1583.3
	445/7T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	156.9	1498	1588.2
	447/9T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	139.4	1498	1583.3
	586/7T	815	711.2 H7	20	Ø70	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	228.8	1623	1640.4
W11	404/5T	450	457.2 H7	20	Ø80	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	139.2	1631	2001.2
	444/5T	550	457.2 H7	20	Ø80	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	154.9	1631	2012.7
	445/7T	550	457.2 H7	20	Ø80	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	154.9	1631	2012.7
	447/9T	550	457.2 H7	20	Ø80	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	1631	2012.7
	586/7T	815	711.2 H7	20	Ø80	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	227.3	1756	2069.8
W12	404/5T	450	457.2 H7	20	Ø80	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	139.2	1666	2128.7
	444/5T	550	457.2 H7	20	Ø80	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	154.9	1666	2128.7
	445/7T	550	457.2 H7	20	Ø80	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	154.9	1666	2128.7
	447/9T	550	457.2 H7	20	Ø80	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	1666	2128.7
	586/7T	815	711.2 H7	20	Ø80	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	227.3	1791	2185.9
W13	404/5T	450	457.2 H7	20	Ø90	73.025	+0.0381	508.0	6	177.8	21 (8x)	81.41	19.05	-0.0508	115.3	1645	2810.0
	444/5T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	209.6	21 (8x)	95.50	22.23	-0.0762	159.6	1817	2810.0
	445/7T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	209.6	21 (8x)	95.50	22.23	-0.0762	165.9	1817	2810.0
	447/9T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	209.6	21 (8x)	95.50	22.23	-0.0762	142.1	1817	2810.0
	586/7T	815	711.2 H7	20	Ø90	98.425	+0.0381	762.0	7	288.9	21 (8x)	109.58	25.40	-0.0762	226.9	1932	2867.2
W14	404/5T	450	457.2 H7	20	Ø90	73.025	+0.0381	508.0	6	177.8	21 (8x)	81.41	19.05	-0.0508	115.3	1852	3112.1
	444/5T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	209.6	21 (8x)	95.50	22.23	-0.0762	159.6	1852	3112.1
	445/7T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	209.6	21 (8x)	95.50	22.23	-0.0762	165.9	1852	3112.1
	447/9T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	209.6	21 (8x)	95.50	22.23	-0.0762	142.1	1852	3112.1
	586/7T	815	711.2 H7	20	Ø90	98.425	+0.0381	762.0	7	288.9	21 (8x)	109.58	25.40	-0.0762	226.9	1977	3169.2
W15	445/7T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	150.6	1866	3503.9
	447/9T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	140.4	1866	3503.9
	586/7T	815	711.2 H7	20	Ø90	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	257.5	1991	3559.4
W16	445/7T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	150.6	1906	3799.4
	447/9T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	140.4	1906	3799.4
	586/7T	815	711.2 H7	20	Ø90	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	257.5	2031	3854.9

10.5.6 Right Angle Shafts K, 4 Stages



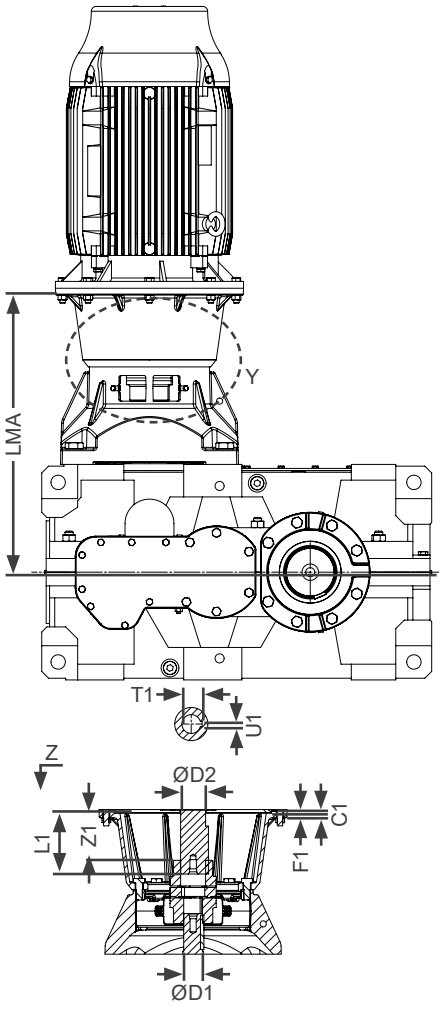
4 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W03	182/4T	285	228.6 H7	22	Ø28	28.575	+0.0254	254.0	6	69.5	21 (4x)	31.52	6.35	-0.0508	19.5	814	384.6
	213/5T	285	228.6 H7	12	Ø28	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	-0.0508	55.5	884	387.2
	254/6T	350	279.4 H7	20	Ø28	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	68.9	883	391.7
	284/6T	350	279.4 H7	20	Ø28	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	67.4	883	391.7
W04	182/4T	285	228.6 H7	22	Ø28	28.575	+0.0254	254.0	6	69.5	21 (4x)	31.52	6.35	-0.0508	19.5	853	417.3
	213/5T	285	228.6 H7	12	Ø28	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	-0.0508	55.5	923	419.8
	254/6T	350	279.4 H7	20	Ø28	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	68.9	922	424.4
	284/6T	350	279.4 H7	20	Ø28	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	67.4	922	424.4
W05	182/4T	285	228.6 H7	22	Ø32	28.575	+0.0254	254.0	6	69.5	21 (4x)	31.52	6.35	-0.0508	21.5	958	606.7
	213/5T	281	228.6 H7	12	Ø32	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	-0.0508	52.5	1028	606.9
	254/6T	350	279.4 H7	20	Ø32	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	70.9	1027	613.8
	284/6T	350	279.4 H7	20	Ø32	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	74.9	1027	613.8
	324/6T	450	355.6 H7	22	Ø32	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	100.0	1061	623.4
W06	182/4T	285	228.6 H7	22	Ø32	28.575	+0.0254	254.0	6	69.5	21 (4x)	31.52	6.35	-0.0508	21.5	1004	699.5
	213/5T	281	228.6 H7	12	Ø32	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	-0.0508	52.5	1074	699.7
	254/6T	350	279.4 H7	20	Ø32	41.275	+0.0254	317.5	6	101.6	21 (4x)	45.62	9.53	-0.0508	71.1	1073	706.6
	284/6T	350	279.4 H7	20	Ø32	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	74.9	1073	706.6
	324/6T	450	355.6 H7	22	Ø32	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	100.0	1107	716.2
W07	213/5T	285	228.6 H7	22	Ø38	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	-0.0508	52.5	1157	994.0
	254/6T	350	279.4 H7	20	Ø38	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	65.4	1156	998.5
	284/6T	350	279.4 H7	20	Ø38	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	67.4	1156	998.5
	324/6T	450	355.6 H7	22	Ø38	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	91.0	1190	1008.1
	364/5T	450	355.6 H7	22	Ø38	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	1190	1008.1

ACCESSORIES - ADDITIONAL DIMENSIONS

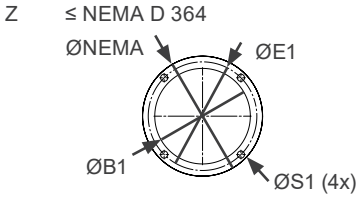
4 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W08	213/5T	285	228.6 H7	22	Ø38	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	-0.0508	52.5	1211	1119.3
	254/6T	350	279.4 H7	20	Ø38	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	65.4	1210	1123.9
	284/6T	350	279.4 H7	20	Ø38	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	67.4	1210	1123.9
	324/6T	450	355.6 H7	22	Ø38	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	91.0	1244	1133.5
	364/5T	450	355.6 H7	22	Ø38	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	1244	1133.5
W09	254/6T	350	279.4 H7	20	Ø45	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	37.4	1322	1475.6
	284/6T	350	279.4 H7	20	Ø45	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	74.4	1361	1477.5
	324/6T	450	355.6 H7	20	Ø45	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	68.5	1356	1485.2
	364/5T	450	355.6 H7	22	Ø45	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	105.2	1476	1502.7
	404/5T	450	457.2 H7	20	Ø45	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	130.2	1466	1500.9
	444/5T	550	457.2 H7	20	Ø45	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	130.9	1466	1500.9
W10	254/6T	350	279.4 H7	20	Ø45	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	37.4	1354	1554.6
	284/6T	350	279.4 H7	20	Ø45	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	74.4	1393	1556.5
	324/6T	450	355.6 H7	20	Ø45	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	68.5	1388	1564.2
	364/5T	450	355.6 H7	22	Ø45	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	105.2	1508	1581.7
	404/5T	450	457.2 H7	20	Ø45	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	130.2	1498	1579.9
	444/5T	550	457.2 H7	20	Ø45	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	130.9	1498	1579.9
W11	254/6T	350	279.4 H7	20	Ø55	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	57.4	1487	1993.9
	284/6T	350	279.4 H7	20	Ø55	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	61.4	1487	1993.9
	324/6T	450	355.6 H7	20	Ø55	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	90.5	1521	2003.5
	364/5T	450	355.6 H7	22	Ø55	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	84.2	1521	2003.5
	404/5T	450	457.2 H7	20	Ø55	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	143.7	1631	2019.2
	444/5T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	146.9	1631	2019.2
	445/7T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	146.9	1631	2019.2
	447/9T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	129.4	1631	2019.2
W12	254/6T	350	279.4 H7	20	Ø55	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	57.4	1522	2119.8
	284/6T	350	279.4 H7	20	Ø55	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	61.4	1522	2119.8
	324/6T	450	355.6 H7	20	Ø55	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	90.5	1556	2129.4
	364/5T	450	355.6 H7	22	Ø55	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	84.2	1556	2129.4
	404/5T	450	457.2 H7	20	Ø55	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	143.7	1666	2145.1
	444/5T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	146.9	1666	2145.1
	445/7T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	146.9	1666	2145.1
	447/9T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	129.4	1666	2145.1

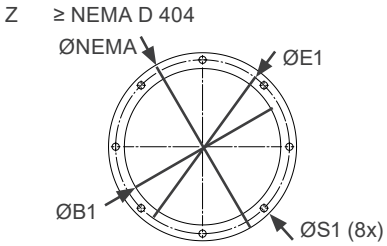
4 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W13	254/6T	350	279.4 H7	20	Ø70	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	26.4	1668	2824.6
	284/6T	350	279.4 H7	20	Ø70	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	48.4	1707	2826.5
	324/6T	450	355.6 H7	20	Ø70	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	44.5	1702	2834.2
	364/5T	450	355.6 H7	22	Ø70	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	30.2	1702	2834.2
	404/5T	450	457.2 H7	20	Ø70	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	134.2	1812	2849.9
	444/5T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	1812	2849.9
	445/7T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	1812	2837.5
	447/9T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	1812	2849.9
W14	254/6T	350	279.4 H7	20	Ø70	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	26.4	1708	3102.5
	284/6T	350	279.4 H7	20	Ø70	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	48.4	1747	3104.4
	324/6T	450	355.6 H7	20	Ø70	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	44.5	1742	3112.2
	364/5T	450	355.6 H7	22	Ø70	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	30.2	1742	3112.2
	404/5T	450	457.2 H7	20	Ø70	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	134.2	1852	3127.8
	444/5T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	1852	3127.8
	445/7T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	1852	3127.8
	447/9T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	1852	3127.8
W15	324/6T	450	355.6 H7	20	Ø70	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	43.5	1756	3524.1
	364/5T	450	355.6 H7	22	Ø70	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	106.2	1876	3541.6
	404/5T	450	457.2 H7	20	Ø70	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	131.7	1866	3559.7
	444/5T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	134.9	1866	3539.7
	447/9T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	195.9	21 (8x)	95.50	22.23	-0.0762	117.4	1866	3539.7
W16	324/6T	450	355.6 H7	20	Ø70	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	43.5	1796	3819.7
	364/5T	450	355.6 H7	22	Ø70	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	106.2	1916	3837.2
	404/5T	450	457.2 H7	20	Ø70	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	131.7	1906	3835.3
	444/5T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	134.9	1906	3835.3
	447/9T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	195.9	21 (8x)	95.50	22.23	-0.0762	117.4	1906	3835.3

10.5.7 Right Angle Shafts T, 3 Stages



Detail Y





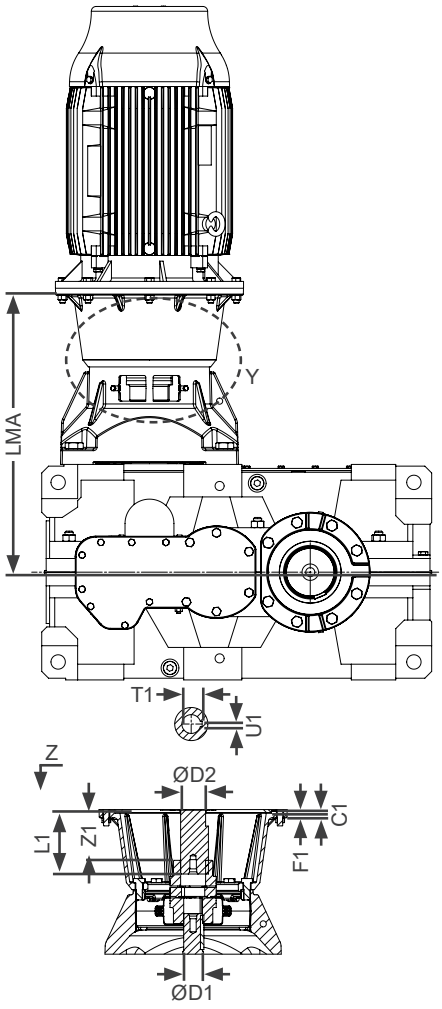
3 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W01	213/5T	281	228.6 H7	12	Ø32	34.925	+0.0254	254.0	6	85.5	14 (4x)	38.56	7.94	-0.0508	74.1	515	265.3
	254/6T	350	279.4 H7	20	Ø32	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	73.4	514	269.8
	284/6T	350	279.4 H7	20	Ø32	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	77.4	514	269.8
	324/6T	450	355.6 H7	22	Ø32	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	107.5	548	279.4
W02	213/5T	281	228.6 H7	12	Ø32	34.925	+0.0254	254.0	6	85.5	14 (4x)	38.56	7.94	-0.0508	62.0	515	295.1
	254/6T	350	279.4 H7	20	Ø32	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	73.4	514	299.7
	284/6T	350	279.4 H7	20	Ø32	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	77.4	514	299.7
	324/6T	450	355.6 H7	22	Ø32	53.975	+0.0381	406.0	6	117.4	21 (4x)	59.69	12.07	-0.0508	77.4	514	309.3
W03	213/5T	281	228.6 H7	12	Ø38	34.925	+0.0254	254.0	6	85.5	14 (4x)	38.56	7.94	-0.0508	58.5	546	394.5
	254/6T	350	279.4 H7	20	Ø38	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	66.4	545	399.0
	284/6T	350	279.4 H7	17	Ø38	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	87.4	584	400.9
	324/6T	450	355.6 H7	22	Ø38	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	92.5	579	408.6
	364/5T	450	355.6 H7	22	Ø38	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	92.2	577	408.6
	404/5T	550	457.2 H7	20	Ø38	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	141.2	689	424.3

3 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W04	213/5T	281	228.6 H7	12	Ø38	34.925	+0.0254	254.0	6	85.5	14 (4x)	38.56	7.94	-0.0508	58.5	546	452.6
	254/6T	350	279.4 H7	20	Ø38	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	65.4	545	452.8
	284/6T	350	279.4 H7	17	Ø38	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	87.4	584	457.2
	324/6T	450	355.6 H7	22	Ø38	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	92.5	579	461.4
	364/5T	450	355.6 H7	22	Ø38	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	92.2	577	461.7
	404/5T	550	457.2 H7	20	Ø38	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	141.2	689	469.9
W05	254/6T	350	279.4 H7	20	Ø45	41.275	+0.0254	317.5	6	101.6	21 (4x)	45.62	9.53	-0.0508	63.1	629	621.9
	284/6T	350	279.4 H7	20	Ø45	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	67.4	629	621.9
	324/6T	450	355.6 H7	22	Ø45	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	90.0	663	631.5
	364/5T	450	355.6 H7	22	Ø45	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	663	631.5
	404/5T	550	457.2 H7	20	Ø45	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	141.2	773	649.0
	444/5T	550	457.2 H7	20	Ø45	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	142.9	773	649.0
	447/9T	550	457.2 H7	20	Ø45	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	70.9	773	649.0
W06	254/6T	350	279.4 H7	20	Ø45	41.275	+0.0254	317.5	6	101.6	21 (4x)	45.62	9.53	-0.0508	63.1	629	717.2
	284/6T	350	279.4 H7	20	Ø45	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	67.4	629	717.2
	324/6T	450	355.6 H7	22	Ø45	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	90.0	663	726.9
	364/5T	450	355.6 H7	22	Ø45	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	663	726.9
	404/5T	550	457.2 H7	20	Ø45	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	141.2	773	744.4
	444/5T	550	457.2 H7	20	Ø45	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	142.9	773	744.4
	447/9T	550	457.2 H7	20	Ø45	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	70.9	773	744.4
W07	324/6T	450	355.6 H7	22	Ø55	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	98.5	720	1024.3
	364/5T	450	355.6 H7	22	Ø55	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	99.2	720	1024.3
	404/5T	550	457.2 H7	20	Ø55	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	144.2	830	1040.0
	444/5T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	152.9	830	1040.0
	447/9T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	123.9	830	1040.0
W08	324/6T	450	355.6 H7	22	Ø55	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	98.5	720	1149.7
	364/5T	450	355.6 H7	22	Ø55	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	99.2	720	1149.7
	404/5T	550	457.2 H7	20	Ø55	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	144.2	830	1165.4
	444/5T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	152.9	830	1165.4
	447/9T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	123.9	830	1165.4
W09	364/5T	450	355.6 H7	22	Ø70	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	90.7	808	1493.0
	404/5T	450	457.2 H7	20	Ø70	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	153.7	918	1508.6
	444/5T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	156.9	918	1508.6
	445/7T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	156.9	918	1513.6
	447/9T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	139.4	918	1508.6
	586/7T	815	711.2 H7	20	Ø70	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	228.8	1043	1565.8

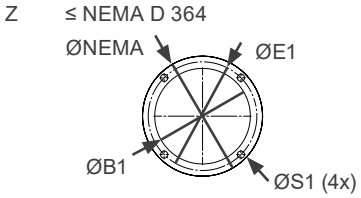
ACCESSORIES - ADDITIONAL DIMENSIONS

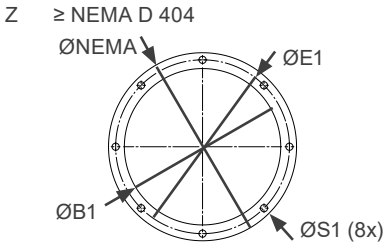
3 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W10	364/5T	450	355.6 H7	22	Ø70	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	90.7	808	1576.2
	404/5T	450	457.2 H7	20	Ø70	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	153.7	918	1591.8
	444/5T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	156.9	918	1591.8
	445/7T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	156.9	918	1596.8
	447/9T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	139.4	918	1591.8
	586/7T	815	711.2 H7	20	Ø70	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	228.8	1043	1649.0
W11	404/5T	450	457.2 H7	20	Ø80	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	139.2	1014	2023.6
	444/5T	550	457.2 H7	20	Ø80	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	154.9	1014	2023.6
	445/7T	550	457.2 H7	20	Ø80	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	154.9	1014	2023.6
	447/9T	550	457.2 H7	20	Ø80	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	1014	2023.6
	586/7T	815	711.2 H7	20	Ø80	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	227.3	1139	2080.7
W12	404/5T	450	457.2 H7	20	Ø80	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	139.2	1014	2137.9
	444/5T	550	457.2 H7	20	Ø80	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	154.9	1014	2137.9
	445/7T	550	457.2 H7	20	Ø80	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	154.9	1014	2137.9
	447/9T	550	457.2 H7	20	Ø80	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	1014	2137.9
	586/7T	815	711.2 H7	20	Ø80	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	227.3	1139	2195.1
W13	404/5T	450	457.2 H7	20	Ø90	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	144.7	1105	2829.3
	444/5T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	160.9	1105	2829.3
	445/7T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	160.9	1105	2829.3
	447/9T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	142.9	1105	2829.3
	586/7T	815	711.2 H7	20	Ø90	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	232.8	1230	2886.4
W14	404/5T	450	457.2 H7	20	Ø90	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	144.7	1105	3105.5
	444/5T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	160.9	1105	3105.5
	445/7T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	160.9	1105	3105.5
	447/9T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	142.9	1105	3105.5
	586/7T	815	711.2 H7	20	Ø90	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	232.8	1230	3162.6
W15	445/7T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	150.6	1100	3523.7
	447/9T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	140.4	1100	3523.7
	586/7T	815	711.2 H7	20	Ø90	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	257.5	1225	3579.2
W16	445/7T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	150.6	1100	3820.6
	447/9T	550	457.2 H7	20	Ø90	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	140.4	1100	3820.6
	586/7T	815	711.2 H7	20	Ø90	98.425	+0.0381	762.0	7	295.3	21 (8x)	109.58	25.40	-0.0762	257.5	1225	3876.1

10.5.8 Right Angle Shafts T, 4 Stages



Detail Y





4 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W03	182/4T	285	228.6 H7	22	Ø28	28.575	+0.0254	254.0	6	69.5	21 (4x)	31.52	6.35	-0.0508	19.5	476	384.8
	213/5T	285	228.6 H7	12	Ø28	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	-0.0508	55.5	546	387.3
	254/6T	350	279.4 H7	20	Ø28	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	68.9	545	391.9
	284/6T	350	279.4 H7	20	Ø28	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	67.4	545	391.9
W04	182/4T	285	228.6 H7	22	Ø28	28.575	+0.0254	254.0	6	63.5	21 (4x)	31.52	6.35	-0.0508	19.5	476	414.4
	213/5T	285	228.6 H7	12	Ø28	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	-0.0508	55.5	546	419.0
	254/6T	350	279.4 H7	20	Ø28	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	68.9	545	421.5
	284/6T	350	279.4 H7	20	Ø28	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	67.4	545	421.5
W05	182/4T	285	228.6 H7	22	Ø32	28.575	+0.0254	254.0	6	69.5	21 (4x)	31.52	6.35	-0.0508	21.5	560	607.3
	213/5T	281	228.6 H7	12	Ø32	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	-0.0508	52.5	630	607.5
	254/6T	350	279.4 H7	20	Ø32	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	70.9	629	614.3
	284/6T	350	279.4 H7	20	Ø32	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	74.9	629	614.3
	324/6T	450	355.6 H7	22	Ø32	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	100.0	663	623.9

ACCESSORIES - ADDITIONAL DIMENSIONS

4 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W06	182/4T	285	228.6 H7	22	Ø32	28.575	+0.0254	254.0	6	69.5	21 (4x)	31.52	6.35	-0.0508	21.5	560	694.9
	213/5T	281	228.6 H7	12	Ø32	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	-0.0508	52.5	630	695.1
	254/6T	350	279.4 H7	20	Ø32	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	70.9	629	702.0
	284/6T	350	279.4 H7	20	Ø32	47.625	+0.0254	317.5	6	117.4	21 (4x)	53.24	12.07	-0.0508	74.9	629	702.0
	324/6T	450	355.6 H7	22	Ø32	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	100.0	663	711.6
W07	213/5T	285	228.6 H7	22	Ø38	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	-0.0508	52.5	687	998.6
	254/6T	350	279.4 H7	20	Ø38	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	65.4	686	1003.1
	284/6T	350	279.4 H7	20	Ø38	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	67.4	686	1003.1
	324/6T	450	355.6 H7	22	Ø38	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	91.0	720	1012.7
	364/5T	450	355.6 H7	22	Ø38	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	720	1012.7
W08	213/5T	285	228.6 H7	22	Ø38	34.925	+0.0254	254.0	6	85.5	21 (4x)	38.56	7.94	-0.0508	52.5	687	1114.6
	254/6T	350	279.4 H7	20	Ø38	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	65.4	686	1119.1
	284/6T	350	279.4 H7	20	Ø38	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	67.4	686	1119.1
	324/6T	450	355.6 H7	22	Ø38	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	91.0	720	1128.7
	364/5T	450	355.6 H7	22	Ø38	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	93.2	720	1128.7
W09	254/6T	350	279.4 H7	20	Ø45	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	37.4	774	1480.1
	284/6T	350	279.4 H7	20	Ø45	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	74.4	813	1482.0
	324/6T	450	355.6 H7	20	Ø45	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	68.5	808	1489.7
	364/5T	450	355.6 H7	22	Ø45	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	105.2	928	1507.2
	404/5T	450	457.2 H7	20	Ø45	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	130.2	918	1505.4
	444/5T	550	457.2 H7	20	Ø45	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	130.9	918	1505.4
W10	254/6T	350	279.4 H7	20	Ø45	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	37.4	774	1559.7
	284/6T	350	279.4 H7	20	Ø45	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	74.4	813	1561.6
	324/6T	450	355.6 H7	20	Ø45	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	68.5	808	1569.3
	364/5T	450	355.6 H7	22	Ø45	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	105.2	928	1586.9
	404/5T	450	457.2 H7	20	Ø45	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	130.2	918	1585.0
	444/5T	550	457.2 H7	20	Ø45	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	130.9	918	1585.0
W11	254/6T	350	279.4 H7	20	Ø55	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	57.4	870	1996.3
	284/6T	350	279.4 H7	20	Ø55	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	61.4	870	1996.3
	324/6T	450	355.6 H7	20	Ø55	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	90.5	904	2005.9
	364/5T	450	355.6 H7	22	Ø55	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	84.2	904	2005.9
	404/5T	450	457.2 H7	20	Ø55	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	143.7	1014	2021.6
	444/5T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	146.9	1014	2021.6
	445/7T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	146.9	1014	2021.6
	447/9T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	129.4	1014	2021.6

4 Stage	Nema D	ØNema	Ø B1	C1	Ø D1	Ø D2		Ø E1	F1	L1	Ø S1	T1	U1		Z1	LMA	kg
W12	254/6T	350	279.4 H7	20	Ø55	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	57.4	870	2125.9
	284/6T	350	279.4 H7	20	Ø55	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	61.4	870	2125.9
	324/6T	450	355.6 H7	20	Ø55	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	90.5	904	2135.6
	364/5T	450	355.6 H7	22	Ø55	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	84.2	904	2135.6
	404/5T	450	457.2 H7	20	Ø55	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	143.7	1014	2151.2
	444/5T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	146.9	1014	2151.2
	445/7T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	146.9	1014	2151.2
	447/9T	550	457.2 H7	20	Ø55	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	129.4	1014	2151.2
W13	254/6T	350	279.4 H7	20	Ø70	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	26.4	961	2833.0
	284/6T	350	279.4 H7	20	Ø70	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	48.4	1000	2834.9
	324/6T	450	355.6 H7	20	Ø70	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	44.5	995	2842.6
	364/5T	450	355.6 H7	22	Ø70	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	30.2	995	2842.6
	404/5T	450	457.2 H7	20	Ø70	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	134.2	1105	2858.2
	444/5T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	1105	2858.2
	447/9T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	119.9	1105	2858.2
W14	254/6T	350	279.4 H7	20	Ø70	41.275	+0.0254	317.5	6	101.4	21 (4x)	45.62	9.53	-0.0508	26.4	961	3111.0
	284/6T	350	279.4 H7	20	Ø70	47.625	+0.0254	317.5	6	117.4	21 (4x)	59.69	12.07	-0.0508	48.4	1000	3112.9
	324/6T	450	355.6 H7	20	Ø70	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	44.5	995	3120.6
	364/5T	450	355.6 H7	22	Ø70	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	30.2	995	3120.6
	404/5T	450	457.2 H7	20	Ø70	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	134.2	1105	3136.3
	444/5T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	137.4	1105	3136.3
	447/9T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	119.9	1105	3136.3
W15	324/6T	450	355.6 H7	20	Ø70	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	43.5	1110	3535.5
	364/5T	450	355.6 H7	22	Ø70	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	106.2	1110	3553.0
	404/5T	450	457.2 H7	20	Ø70	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	131.7	1100	3551.2
	444/5T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	134.9	1100	3551.2
	447/9T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	117.4	1100	3551.2
W16	324/6T	450	355.6 H7	20	Ø70	53.975	+0.0381	406.0	6	133.5	21 (4x)	59.69	12.07	-0.0508	43.5	990	3809.9
	364/5T	450	355.6 H7	22	Ø70	60.325	+0.0381	406.0	6	149.2	21 (8x)	67.34	15.88	-0.0508	106.2	1110	3827.4
	404/5T	450	457.2 H7	20	Ø70	73.025	+0.0381	508.0	6	184.2	21 (8x)	81.41	19.05	-0.0508	131.7	1100	3825.6
	444/5T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	134.9	1100	3825.6
	447/9T	550	457.2 H7	20	Ø70	85.725	+0.0381	508.0	6	215.9	21 (8x)	95.50	22.23	-0.0762	117.4	1100	3825.6

10.6 FAN

The fan is a radial type designed for both directions of rotation. It is made of aluminum with a steel hub, a steel deflector compliant with NR12, and balanced in accordance with ISO 1940 G6.3.

It can be installed on the inlet flange or on the additional end of the gearbox with a deflector. The thermal power listed in the capacity tables applies to a fan installed at the end of the gearbox shaft. For a fan installed on the inlet flange, reduce the stated capacity by 20 %.

For gearboxes operating at variable speeds (driven by a variable-frequency drive, for example), we recommend using an electric fan (driven by an electric motor); in this case, consult WEG-CESTARI.

Dimensions of gearboxes with fans installed at the shaft end.

10.7 LUBRICATION AND COOLING SYSTEM

The primary function of the forced lubrication and cooling system is to lubricate the bearings and gear sets. It consists of a helical gear pump driven by an electric motor and connected via a flexible coupling, a water-oil shelland- tube heat exchanger (for air-oil radiators, consult WEG-CESTARI) with a single filter, a stainless steel glycerin-filled pressure gauge for local reading, and a pressure switch to regulate low pressure (0.8 bar).

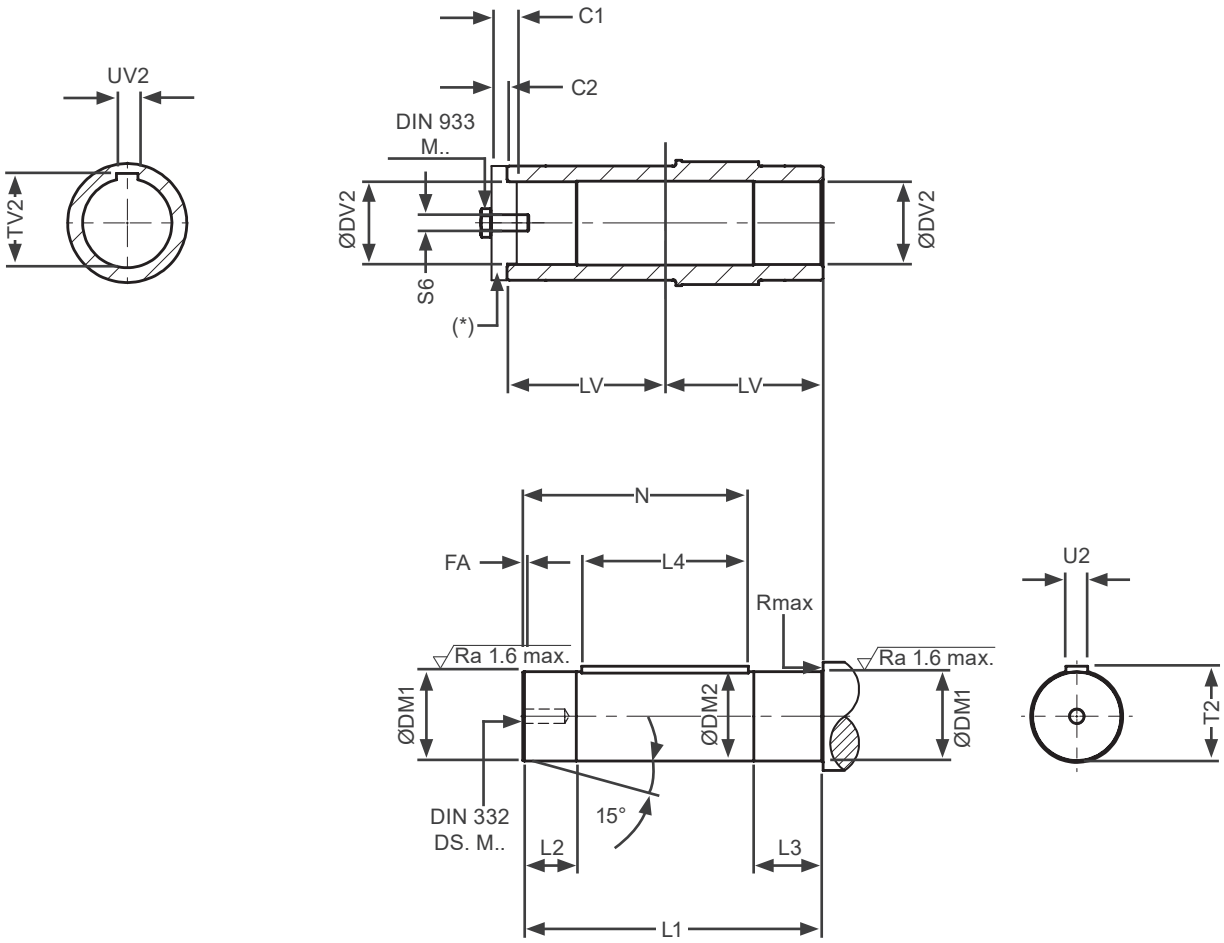
Eight system capacities are available and must be selected to meet the required thermal power. When forced lubrication is used with a pump mounted on the gearbox shaft, the direction of rotation must be unidirectional and specified at the time the order is placed. In this case, the pump is sized for the gearbox speed specified in the application data. Operating the gearbox at speeds different from those considered in the pump sizing may result in insufficient lubrication, which could lead to premature failure of gearbox components.

When the gearbox has a cooling system, the pump flow rate is sized for the heat exchange required in the heat exchanger. If the pump operates at a speed different from that considered in the heat exchanger calculations, the efficiency of the heat exchanger will be compromised, as will its thermal capacity, which may lead to oil overheating and cause premature failures.

For gearboxes operating at variable speeds (driven by a variable-frequency drive, for example), the recommended lubrication system uses a pump driven by an electric motor. When the pump is driven by an electric motor (the pump sized for the motor’s speed), the application data must include the mains frequency, the desired voltage, the motor’s specifications, and the motor standard; generally, the lubrication pump’s specifications match those of the main motor, and the system must be started 1 minute before the main motor.

11 RECOMMENDATIONS FOR THE MACHINE SHAFT

11.1 HOLLOW OUTPUT SHAFT WITH KEYWAY

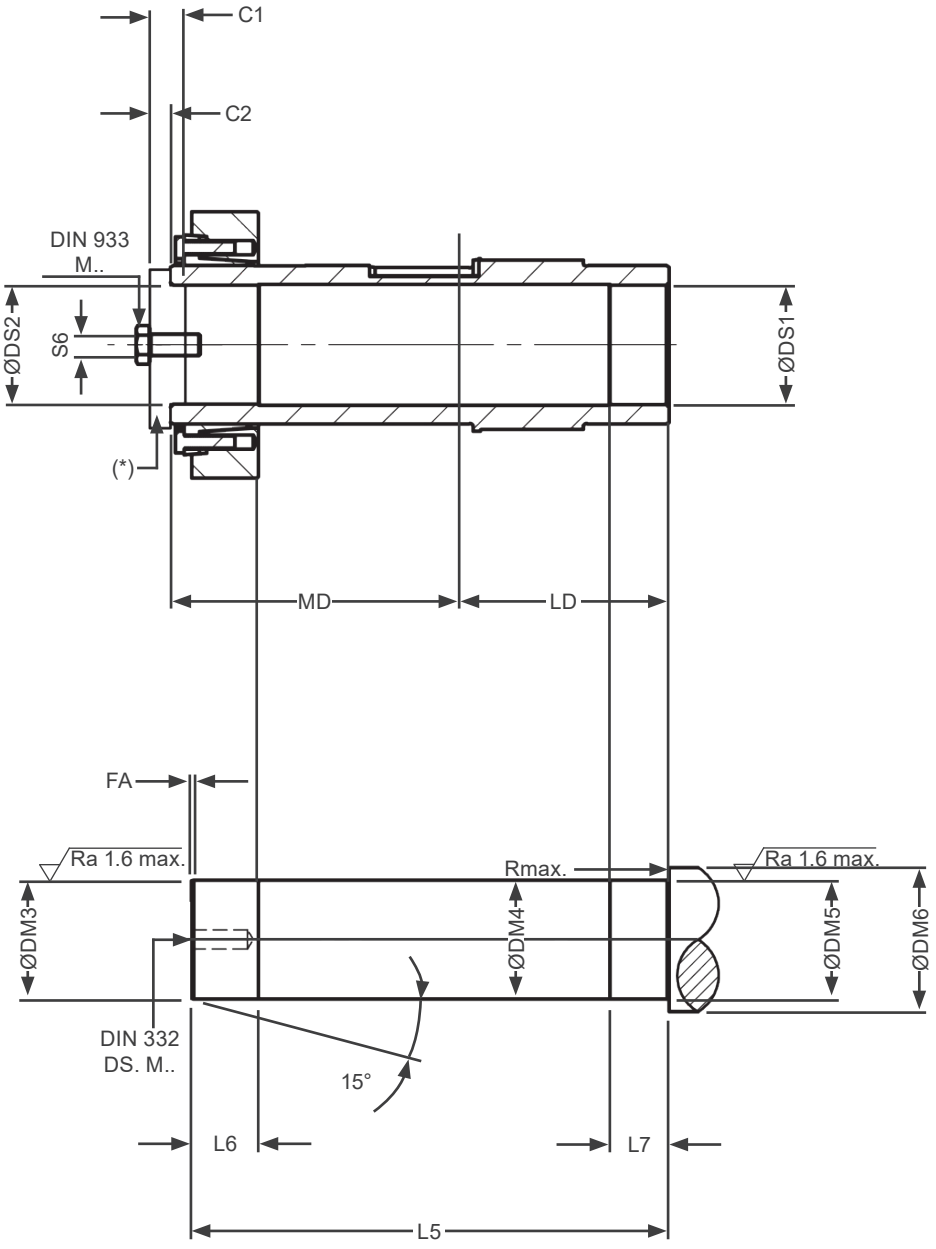


Hollow Output Shaft																				
Size	**C1**	**C2**	**Ø DM1**	**Ø DM2**	**Ø DV2**	**FA**	**L1**	**L2**	**L3**	**L4**	**LV**	**N**	**R Max.**	**S6**	**T2**	**TV2**	**U2**	**UV2**	**DIN 332 DS. M..**	**DIN 933 M..**
W01	25	12	75 js7	75 h11	75 H8	2	312	48	81	120	173	220	1.6	M24	79.5	79.9	20 h9	20 JS9	M20	M20x80-8.8
W02	30	14	85 js7	85 h11	85 H8	2	312.5	45	84	100	176	210	1.6	M30	90	90.4	22 h9	22 JS9	M24	M24x90-8.8
W03	30	14	95 js7	95 h11	95 H8	2	342	53	92	140	190	244.5	1.6	M30	100	100.4	25 h9	25 JS9	M24	M24x90-8.8
W04	30	14	105 js7	105 h11	105 H8	2	347	68	109	160	194	258	1.6	M30	111	111.4	28 h9	28 JS9	M24	M24x90-8.8
W05	30	14	115 js7	115 h11	115 H8	3	418	91	117	200	222	295	2.5	M30	122	122.4	32 h9	32 JS9	M24	M24x80-8.8
W06	30	14	125 js7	125 h11	125 H8	3	422	91	117	200	224	300	2.5	M30	132	132.4	32 h9	32 JS9	M24	M24x80-8.8
W07	36	17	135 js7	135 h11	135 H8	3	483	98	127	245	256	350	2.5	M36	143	143.4	36 h9	36 JS9	M30	M30x90-8.8
W08	36	17	150 js7	150 h11	150 H8	3	483	98	127	245	256	350	2.5	M36	158	158.4	36 h9	36 JS9	M30	M30x90-8.8
W09	36	17	165 js7	165 h11	165 H8	3	555	99	128	315	292	420	2.5	M36	174	174.4	40 h9	40 JS9	M30	M30x90-8.8
W10	36	17	165 js7	165 h11	165 H8	3	555	99	128	315	292	420	2.5	M36	174	174.4	40 h9	40 JS9	M30	M30x90-8.8
W11	36	17	180 js7	180 h11	180 H8	3	609	120	149	330	319	455	2.5	M36	190	190.4	45 h9	45 JS9	M30	M30x90-8.8

Hollow Output Shaft																			
Size	C1	C2	Ø DM1	Ø DM2	Ø DV2	FA	L1	L2	L3	L4	LV	N	R Max.	S6	T2	TV2	U2	UV2	DIN 332 DS. M..	DIN 933 M..
W12	36	17	190 js7	190 h11	190 H8	3	609	120	149	330	319	455	2.5	M36	200	200.4	45 h9	45 JS9	M30	M30x90-8.8
W13	36	17	210 js7	210 h11	210 H8	3	675	123	152	380	352	510	2.5	M36	221	221.4	50 h9	50 JS9	M30	M30x90-8.8
W14	36	17	210 js7	210 h11	210 H8	3	675	123	152	380	352	510	2.5	M36	221	221.4	50 h9	50 JS9	M30	M30x90-8.8
W15	45	22	230 js7	230 h11	230 H8	3	767	137	170	440	400	585	2.5	M42	241	241.4	50 h9	50 JS9	M36	M36x110-8.8
W16	45	22	240 js7	240 h11	240 H8	3	767	137	170	440	400	585	2.5	M42	252	252.4	56 h9	56 JS9	M36	M36x110-8.8

(*) The washer and DIN 0933 screw are not included in the scope of supply. To include these items, contact WEG-CESTARI.

11.1.1 Hollow Output Shaft with Shrink Disc



Shrink Disc Output Shaft																		
Size	C1	C2	Ø DS1	Ø DS2	Ø DM3	Ø DM4	Ø DM5	Ø DM6	FA	L5	L6	L7	MD	LD	R max.	S6	DIN 332 DS. M..	DIN 933 M..
W01	15	9	81 H9	80 H7	80 h6	80 h11	81 m6	100	2	423	48	42	261	173	2	M24	M20	M20x45-8.8
W02	15	9	91 H9	90 H7	90 h6	90 h11	91 m6	105	2	429	48	42	264	176	2	M30	M24	M24x55-8.8
W03	15	9	101 H9	100 H7	100 h6	100 h11	101 m6	115	2	465	54	52	286	190	2	M30	M24	M24x55-8.8
W04	15	9	111 H9	110 H7	110 h6	110 h11	111 m6	125	2	479	54	52	296	194	2	M30	M24	M24x55-8.8
W05	23	14	121 H9	120 H7	120 h6	120 h11	121 m6	135	3	536	58	62	328	222	2.5	M30	M24	M24x80-8.8
W06	23	14	131 H9	130 H7	130 h6	130 h11	131 m6	145	3	546	64	62	336	224	2.5	M30	M24	M24x80-8.8
W07	27	17	141 H9	140 H7	140 h6	140 h11	141 m6	155	3	605	81	72	364	256	3	M36	M30	M30x90-8.8
W08	27	17	151 H9	150 H7	150 h6	150 h11	151 m6	165	3	605	81	72	364	256	3	M36	M30	M30x90-8.8
W09	27	17	166 H9	165 H7	165 h6	165 h11	166 m6	180	3	677	93	82	400	292	3	M36	M30	M30x90-8.8
W10	27	17	166 H9	165 H7	165 h6	165 h11	166 m6	180	3	677	93	82	400	292	3	M36	M30	M30x90-8.8
W11	27	17	181 H9	180 H7	180 h6	180 h11	181 m6	195	3	755	103	83	451	319	3	M36	M30	M30x90-8.8
W12	27	17	191 H9	190 H7	190 h6	190 h11	191 m6	205	3	755	106	83	451	319	3	M36	M30	M30x90-8.8
W13	27	17	211 H9	210 H7	210 h6	210 h11	211 m6	230	3	835	111	108	498	352	3	M36	M30	M30x90-8.8
W14	27	17	211 H9	210 H7	210 h6	210 h11	211 m6	230	3	835	111	108	498	352	3	M36	M30	M30x90-8.8
W15	32	22	231 H9	230 H7	230 h6	230 h11	231 m6	250	3	955	131	108	570	400	3	M42	M36	M36x110-8.8
W16	32	22	241 H9	240 H7	240 h6	240 h11	241 m6	260	3	955	131	108	570	400	3	M42	M36	M36x110-8.8

(*) The washer and DIN 0933 screw are not included in the scope of supply. To include these items, contact WEG-CESTARI..

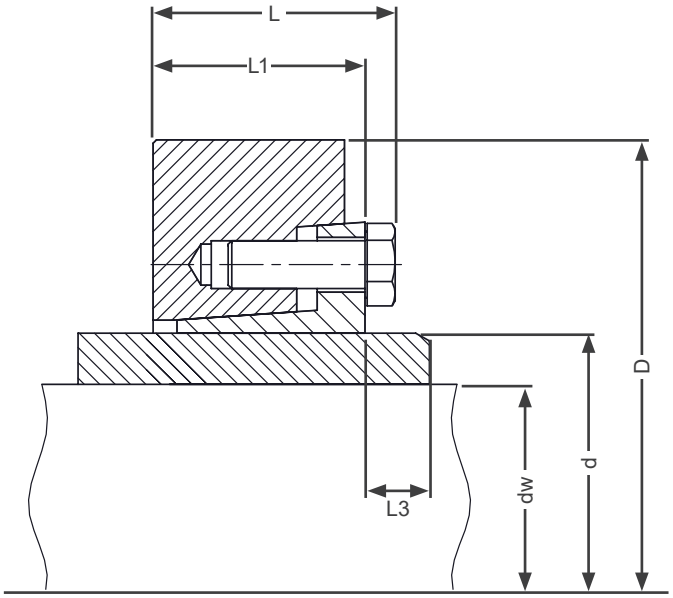
11.1.1.1 Application Instructions - Shrink Disc

Shrink discs must be tightened to a torque greater than the peak torque Mk2max.

Below is a guideline table showing the permissible torques for the Shrink Disc to ensure correct application in WCG50 Ex h series gearboxes.

When using a Shrink Disc, the gearbox's mechanical service factor (based on load class, operating time, etc.) and the torque limit must be calculated.

RECOMMENDATIONS FOR THE MACHINE SHAFT



Shrink Disc							
Size	**kNm**	**dw**	**d x D**	**kNm**	**L**	**L1**	**L3**
W01	7.5	80	110x185	15.5	56.5	49	11
W02	9.5	90	110x185	20	56.5	49	11
W03	13	100	130x230	29	65.5	58	11
W04	16.5	110	130x230	36	65.5	58	11
W05	22	120	150x263	45.3	71	62	14
W06	28	130	160x290	66.7	78	68	14
W07	36	140	180x320	86.5	97	87	15
W08	46	150	180x320	101.4	97	87	15
W09	58.5	165	220x370	171	116	103	15
W10	67	165	220x370	171	116	103	15
W11	80	180	240x405	215	122	109	15
W12	92	190	240x405	242	122	109	15
W13	115	210	260x430	308.5	129	116	15
W14	132	210	260x430	308.5	129	116	15
W15	158	230	280x460	346.5	135	121	15
W16	182	240	280x460	380	135	121	15

Examples for better understanding:

Load class: heavy.

Operating time: 24 hours/day.

Required mechanical service factor: fsmec = 2.00.

75 cv electric motor - 6 poles - 60 Hz.

Gearbox ratio: 160.

Starting type: direct.

Input speed of the gearbox: n1 = 1150 rpm.

Output speed of the gearbox: n2 = 1,150 / 160 = 7.19 rpm.

Motor torque at the gearbox output: T2 = 9,550 × 55 / 7.19 = 73,053 Nm.

Considering a W15 gearbox, the maximum torque at the gearbox output will be 158,000 Nm, resulting in a gearbox service factor of 158,000 / 73,053 Nm = 2.16, which is mechanically adequate. The torque of the Shrink Disc is 346,500 Nm.

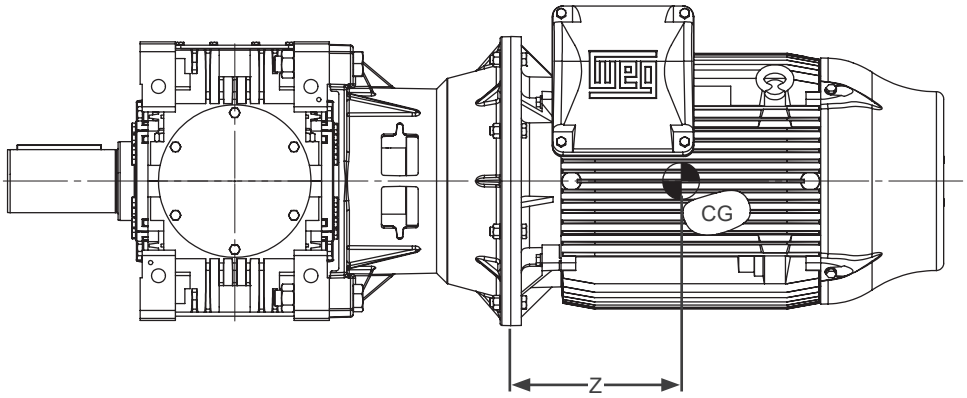
The maximum peak torque for direct start-up is Mk2max = T2 × Fstart > Mk2max = 73,053 × 3 = 219,159 Nm, and the clutch disc meets this requirement (torque 346,500 Nm).

12 LIMITS FOR INPUT FLANGE MOUNTING

Maximum Motor Weight			
Mounting Position M1 / Mounting Surface S1			
Mounting Position M3 / Mounting Surface S3			
Mounting	Parallel Shafts P	Right Angle Shafts K	Right Angle Shafts T
Feet	≤1.5 gear weight	≤1.8 gear weight	≤2.0 gear weight
Flange	≤0.5 gear weight	≤0.5 gear weight	≤0.5 gear weight
Mounting Position M5 / Mounting Surface S5			
Mounting Position M6 / Mounting Surface S6			
Mounting	Parallel Shafts P	Right Angle Shafts K	Right Angle Shafts T
Feet	≤2.0 gear weight	≤1.5 gear weight	≤1.8 gear weight
Flange	≤1.5 gear weight	≤0.8 gear weight	≤1.2 gear weight
Mounting Position M4 / Mounting Surface S2			
Mounting	Parallel Shafts P	Right Angle Shafts K	Right Angle Shafts T
Feet	≤1.2 gear weight	≤1.8 gear weight	≤1.5 gear weight
Flange	≤1.0 gear weight	≤1.2 gear weight	≤1.0 gear weight

12.1 MAXIMUM MOTOR WEIGHT BASED ON GEARBOX SIZE

Valid for stationary applications. For mobile applications, consult WEG-CESTARI.

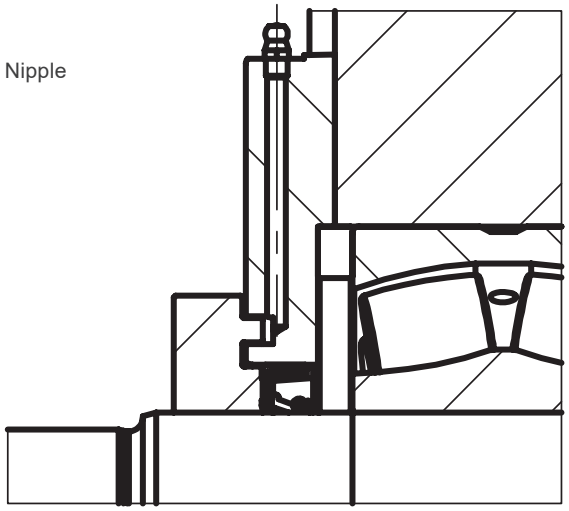


Maximum Motor Weight with Flange								
IEC			**NEMA D**			**NEMA C**		
Motor Housing	**Z (CG) [mm]**	**Maximum Weight [[kg]**	**Motor Housing**	**Z (CG) [mm]**	**Maximum Weight [[kg]**	**Motor Housing**	**Z (CG) [mm]**	**Maximum Weight [[kg]**
100	138	63	**182**	125	81	**182**	128	79
112	135	64	**184**	138	74	**184**	141	72
132S	155	118	**213**	161	109	**213**	163	109
132	174	105	**215**	180	109	**215**	182	109
160M	218	234	**254**	222	228	**254**	224	228
160	239	213	**256**	245	228	**256**	247	228
180M	245	229	**284**	251	216	**284**	253	215
180	263	213	**286**	269	217	**286**	272	217
200M	265	289	**324**	271	288	**324**	278	288
200	283	270	**326**	290	308	**326**	297	301
225	292	436	**364/5**	305	459	**364/5**	312	456
250	372	849	**404/5**	274	689	**404/5**	358	685
280	443	828	**444/5**	414	923	**444/5**	416	918
315S-L	465	1491	**445/7**	499	1331	**445/7**	502	1324
315	521	2035	**447/9**	548	1790	**447/9**	552	1778
355	552	2585	**586/7**	631	2255	**586/7**	633	2248

Notes: (1) The motor weight must be linearly reduced as the distance from the center of gravity (z) increases.
(2) The weight of the gearbox includes the motor adapter flange.
(3) The maximum allowable motor weight in the tables above applies to 3- and 4-stage gearboxes, for 2-stage gearboxes, the maximum allowable motor weight is 15 % higher.

13 TACONITE SEAL

The Taconite (Labyrinth) seal is recommended for environments with high concentrations of airborne dust. It features a grease chamber that prevents external contaminants from entering the gearbox. See the figure below for an illustration of this type of seal.



The dimensions of the gearbox shaft ends (input and output) remain unchanged when this accessory is used.

The standard labyrinth seal is supplied with an initial charge of NLGI #2EP mineral grease, as shown in the table.

Grease	KLUBER	Mobil	Shell
Mineral (Standard)	PETAMO GHY 133N	MOBILUX EP2	GADUS S2 V220 2
Food-Grade	-	-	FM EP2

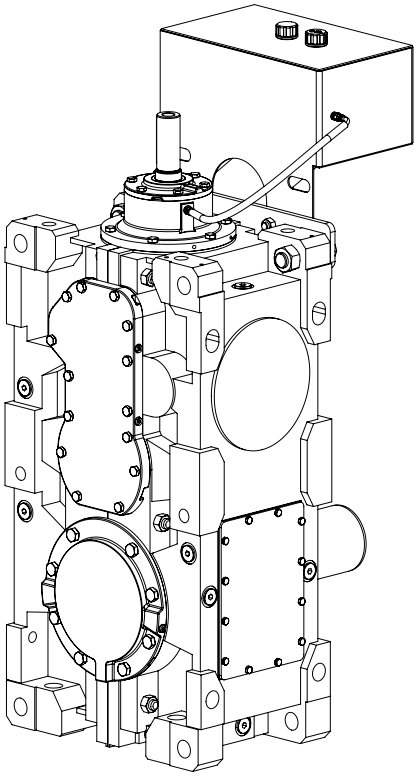
14 EXPANSION CHAMBER

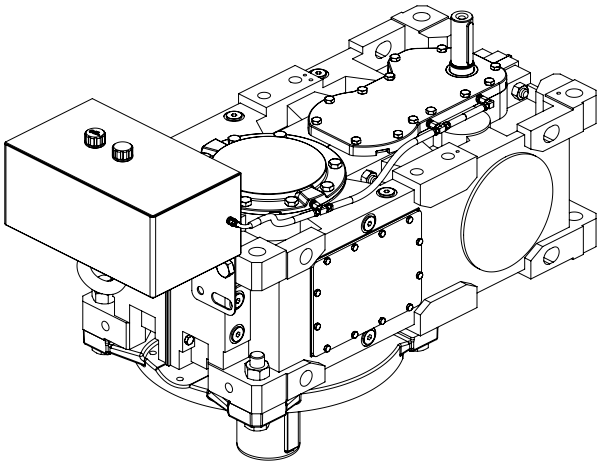
For gearboxes in operating positions where a high volume of oil is required to lubricate the gears and upper bearings, causing significant agitation and expansion of the oil and air, there may be little free space, which can lead to oil leakage through the breather and seals due to high internal pressure. We recommend the use of an expansion chamber.

Consult WEG-CESTARI gearboxs for the following cases:

- Right angle (T) in operating position M1 and Right angle (K) in operating position M4.

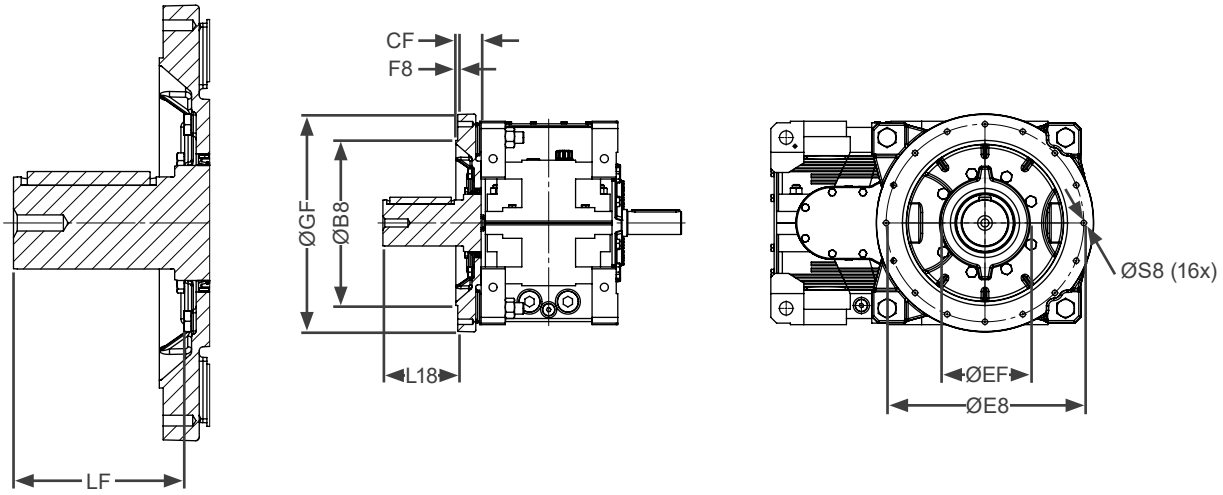
- Parallel and Right angle in operating positions M5 and M6.



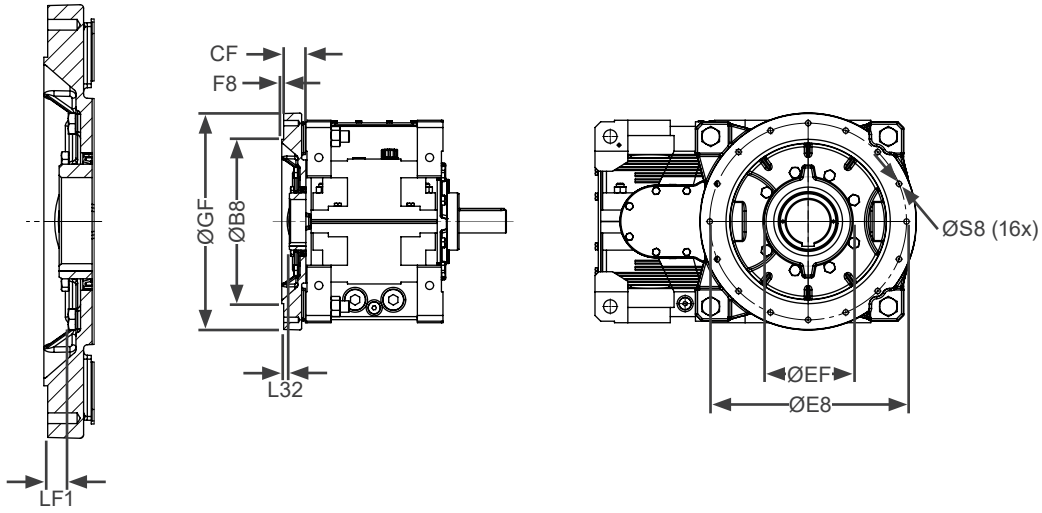


15 OUTPUT FLANGE B14

15.1 SOLID SHAFT



15.2 HOLLOW SHAFT

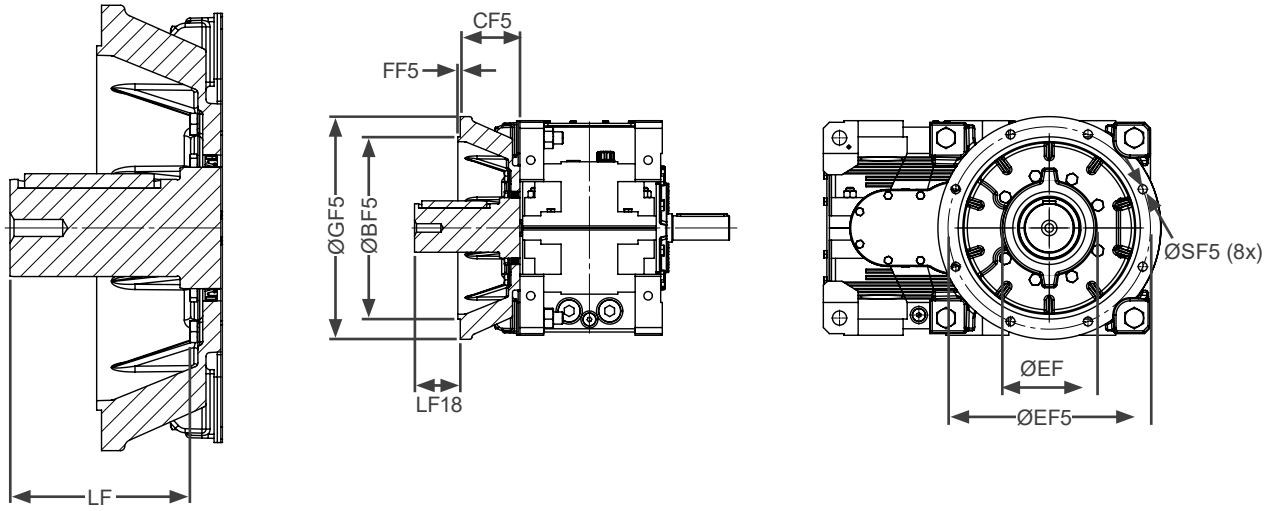


B14 Outlet Flange													
Size	ØB8 f7	CF	ØE8	ØEF	F8	ØGF	ØS8 (16x)	Solid Shaft			Hollow Shaft		
								LA8	LF	kg	L32	LF1	kg
W01	300	41	350	178	5	395	M12x1.75x20	172	190	26	2	20	25
W02	300	41	350	188	5	395	M12x1.75x20	175	192	25	5	23	25
W03	340	50	400	210	5	445	M16x2.0x24	200	224	37	10	24	37
W04	340	50	400	220	5	445	M16x2.0x24	204	228	38	6	24	38
W05	430	57	515	235	5	565	M16x2.0x24	195	222	68	15	27	68
W06	430	57	515	255	5	565	M16x2.0x24	237	263	69	13	27	63
W07	520	63.5	620	270	5	670	M20x2.5x30	230	255	203	20	25.3	211
W08	520	63.5	620	295	5	670	M20x2.5x30	280	303	202	20	22.8	200
W09	560	69.5	680	320	5	734	M24x3.0x36	285	315	111	15	29.3	109
W10	560	69.5	680	315	5	734	M24x3.0x36	285	310	111	15	25.3	109
W11	560	76.5	680	375	5	740	M24x3.0x36	278	309	142	15	31	135

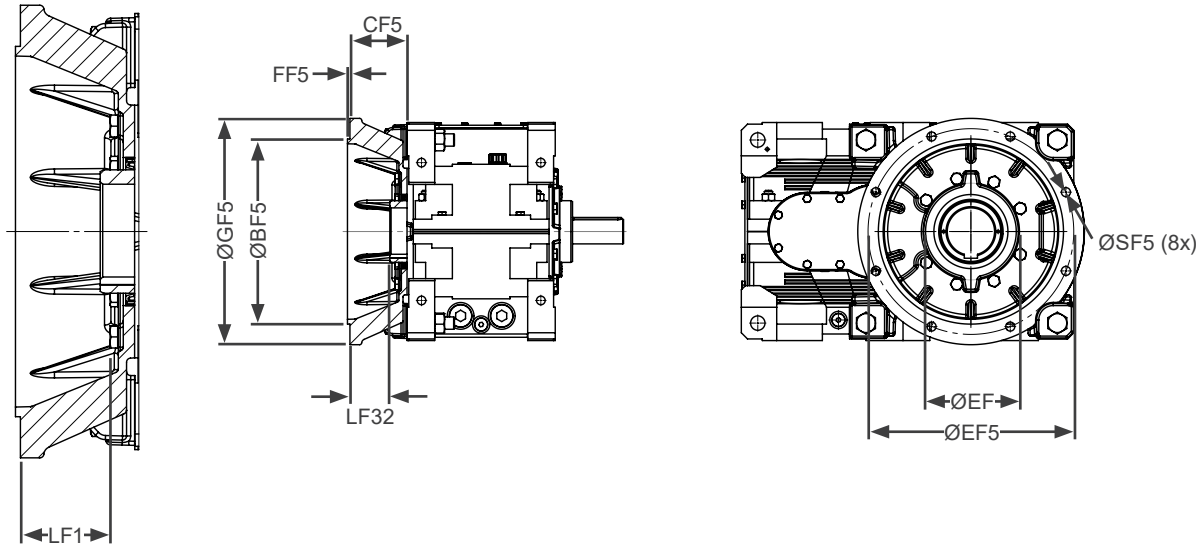
For gear units configured with "Output flange" gear unit mounting and "Motor flange" input type, these cannot be configured on the same side for parallel-shaft gear units.

16 OUTPUT FLANGE B5

16.1 SOLID SHAFT



16.2 HOLLOW SHAFT

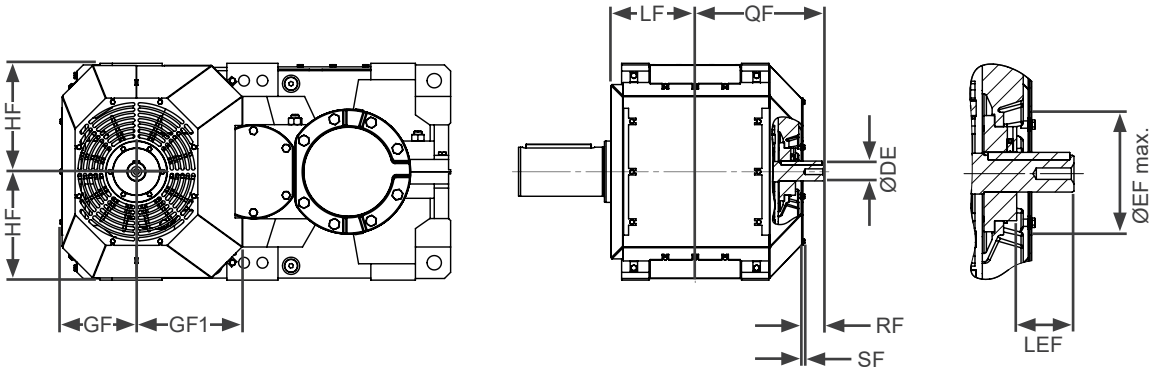


B5 Outlet Flange													
Size	ØBF5 f7	CF5	ØEF5	ØEF	FF5	ØGF5	ØSF5 (8x)	Solid Shaft			Hollow Shaft		
								LF	LF18	kg	LF1	LF32	kg
W03	400	127	450	210	6	500	18	220	123	55	97	87	55
W04	400	127	450	220	6	500	18	224	127	56	97	83	56
W05	450	147.5	500	235	6	550	22	222	113	75	109	97	75
W06	500	188	550	255	7	600	22	264	114	102	150	136	102
W07	550	145.5	600	270	7	660	22	255.5	148	115	107.5	102	113
W08	620	204.5	680	295	7	730	27	343.5	139	136	164	161	134
W09	620	170.5	680	320	7	750	27	316.5	184	145	123.5	116	142
W10	620	170.5	680	315	7	750	27	312.5	184	145	128.5	116	142

For gearboxes configured with "Output Flange" gearbox mounting and "Motor Flange" input type, these cannot be configured on the same side for parallel-shaft gearboxes.

17 PARALLEL-SHAFT GEARS WITH FAN

17.1 2 AND 3 STAGE



Dimensions in mm.

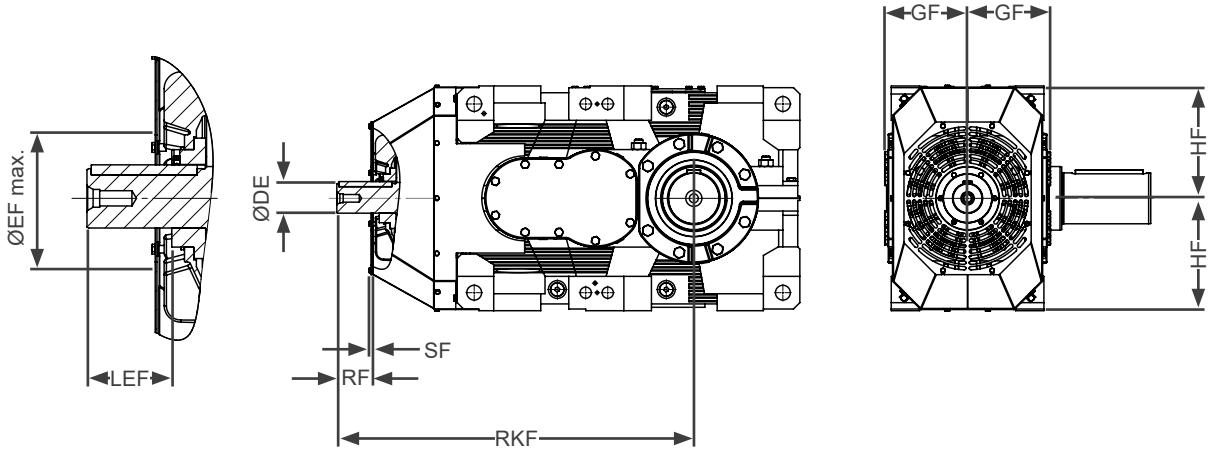
2 Stages											
Size	**Efmax**	**LEF**	**DE**	**RF**	**SF**	**QF**	**GF1**	**GF**	**HF**	**LF**	**LEFaxial**
W01	130	70	40	56	4	265	150	164	190	157	-
W02	130	70	40	56	4	265	150	164	190	157	-
W03	140	70	50	50	4	285	180	184	225	177	-
W04	140	70	50	50	4	285	180	184	225	177	-
W05	150	100	60	45	4	345	195	201	265	207	95
W06	150	100	60	45	4	345	195	201	265	207	95
W07	170	100	70	76	4	380	241	234	315	249	95
W08	170	100	70	76	4	380	241	234	315	249	95
W09	170	130	80	66	4	441	65	262	335	287	125
W10	170	130	80	66	4	441	65	262	335	287	125
W11	215	115	95	96	4	460	303	279	375	301	115
W12	215	115	95	96	4	460	303	279	375	301	115
W13	270	155	105	128	4	535	332	295	425	329	155
W14	270	155	105	128	4	535	332	295	425	329	155
W15	270	160	115	126	4	575	297	314	450	358	160
W16	270	160	115	126	4	575	297	314	450	358	160

3 Stages											
Size	**Efmax**	**LEF**	**DE**	**RF**	**SF**	**QF**	**GF1**	**GF**	**HF**	**LF**	**LEFaxial**
W01	130	70	40	56	4	265	150	164	190	157	-
W02	130	70	40	56	4	265	150	164	190	157	-
W03	140	70	50	50	4	285	180	184	225	177	-
W04	140	70	50	50	4	285	180	184	225	177	-
W05	150	100	60	45	4	345	195	201	265	207	95
W06	150	100	60	45	4	345	195	201	265	207	95
W07	170	100	70	76	4	380	241	234	315	249	95
W08	170	100	70	76	4	380	241	234	315	249	95
W09	170	130	80	66	4	441	65	262	335	287	125
W10	170	130	80	66	4	441	65	262	335	287	125
W11	215	115	95	96	4	460	303	279	375	301	115
W12	215	115	95	96	4	460	303	279	375	301	115
W13	270	155	105	128	4	535	332	295	425	329	155
W14	270	155	105	128	4	535	332	295	425	329	155
W15	270	160	115	126	4	575	297	314	450	358	160
W16	270	160	115	126	4	575	297	314	450	358	160

Note: these dimensions apply to radial fan options.

18 RIGHT ANGLE SHAFT GEARS WITH FAN

18.1 2 AND 3 STAGE



2 Stages									
Size	**EFmax**	**LEF**	**DE**	**RF**	**SF**	**RKF**	**GF**	**HF**	**LEFaxial**
W01	130	45	32	27	4	636	145	190	-
W02	130	45	32	27	4	636	145	190	-
W03	140	54	38	26	4	738	167	225	-
W04	140	54	38	26	4	738	167	225	-
W05	150	70	45	45	4	888	196	265	70
W06	150	70	45	45	4	888	196	265	70
W07	170	70	55	45	4	1000	235	315	70
W08	170	70	55	45	4	1000	235	315	70
W09	215	100	70	70	4	1158	261	355	95
W10	215	100	70	70	4	1158	261	355	95
W11	215	120	85	70	4	1327	311	415	120
W12	215	120	85	70	4	1327	311	415	120
W13	270	120	90	93	4	1497	367	470	120
W14	270	120	103	93	4	1497	367	470	120
W15	270	120	105	95	4	1556	357	470	120
W16	270	120	105	95	4	1556	357	470	120

3 Stages									
Size	**EFmax**	**LEF**	**DE**	**RF**	**SF**	**RKF**	**GF**	**HF**	**LEFaxial**
W01	130	45	32	27	4	636	145	190	-
W02	130	45	32	27	4	636	145	190	-
W03	140	54	38	26	4	738	167	225	-
W04	140	54	38	26	4	738	167	225	-
W05	150	70	45	45	4	888	196	265	70
W06	150	70	45	45	4	888	196	265	70
W07	170	70	55	45	4	1000	235	315	70
W08	170	70	55	45	4	1000	235	315	70
W09	215	100	70	70	4	1158	261	355	95
W10	215	100	70	70	4	1158	261	355	95
W11	215	120	85	70	4	1327	311	415	120
W12	215	120	85	70	4	1327	311	415	120
W13	270	120	90	93	4	1497	367	470	120
W14	270	120	103	93	4	1497	367	470	120
W15	270	120	105	95	4	1556	357	470	120
W16	270	120	105	95	4	1556	357	470	120

Note: these dimensions apply to radial fan options.

19 MAXIMUM SPEED ON THE INPUT SHAFT

19.1 MAXIMUM SPEED ON THE INPUT SHAFT LIMITED BY THE PERIPHERAL SPEED

Parallel Shafts											
2 Stages											
Inom	W01 - W06	W07	W08	W09	W10	W11	W12	W13	W14	W15	W16
6.30	1800	1675	-	1424	-	1227	-	1084	-	981	-
7.10		1675	-	1424	1424	1227	1227	1084	1084	981	981
8.00		1800	1675	1635	1424	1408	1227	1239	1084	1168	981
9.00		1800	1675	1635	1635	1408	1408	1239	1239	1168	1168
10.00		1800	1800	1800	1635	1687	1408	1446	1239	1349	1168
11.20		1800	1800	1800	1800	1687	1687	1446	1446	1349	1349
12.50		1800	1800	1800	1800	1800	1687	1735	1446	1619	1349
14.20		1800	1800	1800	1800	1800	1800	1735	1735	1619	1619
16.00		1800	1800	1800	1800	1800	1800	1800	1735	1800	1619
18.00		1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
20.00		-	1800	-	1800	-	1800	-	1800	-	1800
22.40		-	1800	-	-	-	-	-	-	-	-

Parallel Shafts					
3 Stages					
Inom	W01 - W12	W13	W14	W15	W16
20.00	1800	1635	-	1635	-
22.40		1635	1635	1635	1635
25.00		1635	1635	1635	1635
28.00		1635	1635	1635	1635
31.50		1800	1635	1800	1635
35.50		1800	1800	1800	1800
40.00		1800	1800	1800	1800
45.00		1800	1800	1800	1800
50.00		1800	1800	1800	1800
56.00		1800	1800	1800	1800
63.00		1800	1800	1800	1800
71.00		1800	1800	1800	1800
80.00		1800	1800	1800	1800
90.00		1800	1800	1800	1800
100.00		-	1800	-	1800
112.00		-	-	-	-

Note: for 4-stage parallel shafts. the permissible rotational speed is 1.800 rpm.

MAXIMUM SPEED ON THE INPUT SHAFT

Right Angle Shafts											
2 Stages											
Inom	W01 - W06	W07	W08	W09	W10	W11	W12	W13	W14	W15	W16
6.30	1800	1674	-	1291	-	1370	-	1189	-	1076	-
7.10		1674	-	1291	1291	1370	1370	1189	1189	1076	1076
8.00		1800	1674	1640	1291	1412	1370	1271	1189	1076	1076
9.00		1800	1674	1640	1640	1412	1412	1271	1271	1076	1076
10.00		1800	1800	1800	1640	1738	1412	1271	1271	1338	1076
11.20		1800	1800	1800	1800	1738	1738	1271	1271	1338	1338
12.50		1800	1800	1800	1800	1800	1738	1800	1271	1643	1338
14.20		1800	1800	1800	1800	1800	1800	1800	1800	1643	1643
16.00		-	1800	-	1800	-	1800	-	1800	-	1643
18.00		-	1800	-	-	-	-	-	-	-	-

Right Angle Shafts							
3 Stages							
Inom	W01 - W10	W11	W12	W13	W14	W15	W16
12.50	1800	-	-	-	-	-	-
14.00		-	-	-	-	-	-
16.00		1674	-	1507	-	1507	-
18.00		1674	1674	1507	1507	1507	1507
20.00		1674	1674	1507	1507	1507	1507
22.40		1674	1674	1507	1507	1507	1507
25.00		1674	1674	1507	1507	1507	1507
28.00		1674	1674	1507	1507	1507	1507
31.50		1800	1674	1800	1507	1800	1507
35.50		1800	1800	1800	1800	1800	1800
40.00		1800	1800	1800	1800	1800	1800
45.00		1800	1800	1800	1800	1800	1800
50.00		1800	1800	1800	1800	1800	1800
56.00		1800	1800	1800	1800	1800	1800
63.00		1800	1800	1800	1800	1800	1800
71.00		1800	1800	1800	1800	1800	1800
80.00		1800	1800	1800	1800	1800	1800
90.00		-	1800	-	1800	-	1800

Right Angle Shafts	
4 Stages	
Inom	W03 - W16
80.00	1800
90.00	
100.00	
112.00	
125.00	
142.00	
160.00	
180.00	
200.00	
224.00	
250.00	
280.00	
315.00	
355.00	
400.00	
450.00	

Note: for maximum input shaft speed, refer to the tables above. If the speed is higher, forced lubrication must be used.

19.2 MAXIMUM INPUT SHAFT SPEED LIMITED BY THE BEARING

Size	Stages					
	Parallel Shafts			Perpendicular Shafts		
	2	3	4	2	3	4
01	1800	1800		1800	1800	
02	1800	1800		1800	1800	
03	1800	1800	1800	1800	1800	1800
04	1800	1800	1800	1800	1800	1800
05	1800	1800	1800	1800	1800	1800
06	1800	1800	1800	1800	1800	1800
07	1800	1800	1800	1800	1800	1800
08	1800	1800	1800	1800	1800	1800
09	1800	1800	1800	1800	1800	1800
10	1800	1800	1800	1800	1800	1800
11	1800	1800	1800	1530	1710	1800
12	1800	1800	1800	1530	1710	1800
13	1800	1800	1800	1440	1530	1800
14	1800	1800	1800	1440	1530	1800
15	1800	1800	1800	1350	1530	1800
16	1800	1800	1800	1350	1530	1800

Note: for maximum input shaft speed, refer to the table above. If the speed is higher, consult WEG-CESTARI.

The scope of WEG Group solutions
is not limited to products and solutions
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The values shown are subject to change without prior notice.
The information contained is reference values.