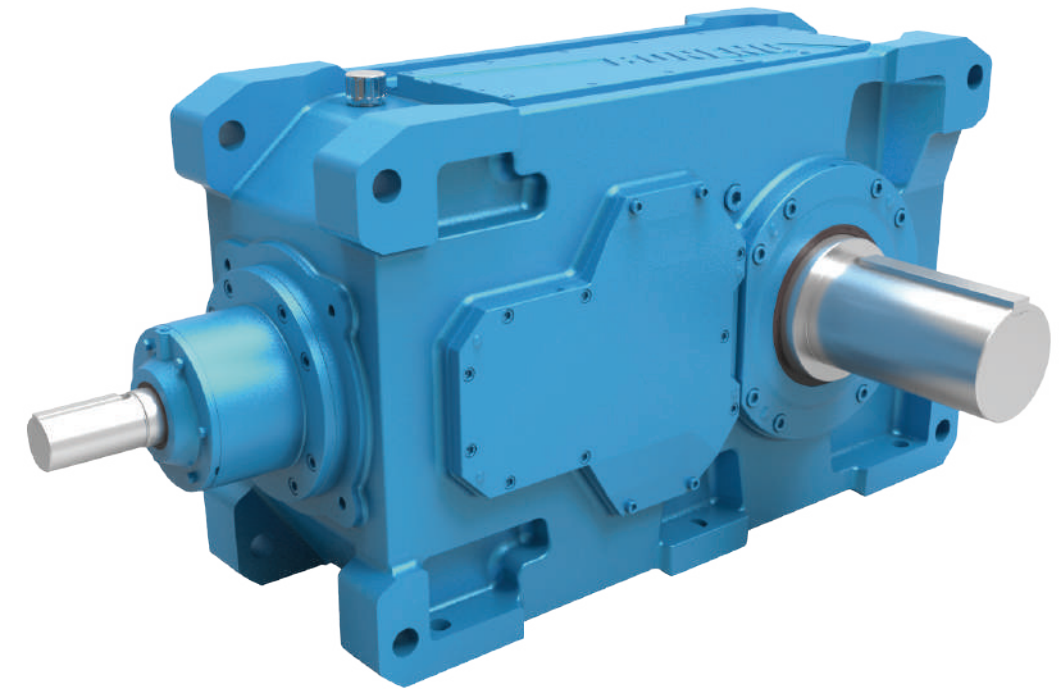


H斜齿齿轮箱&B锥齿-斜齿齿轮箱

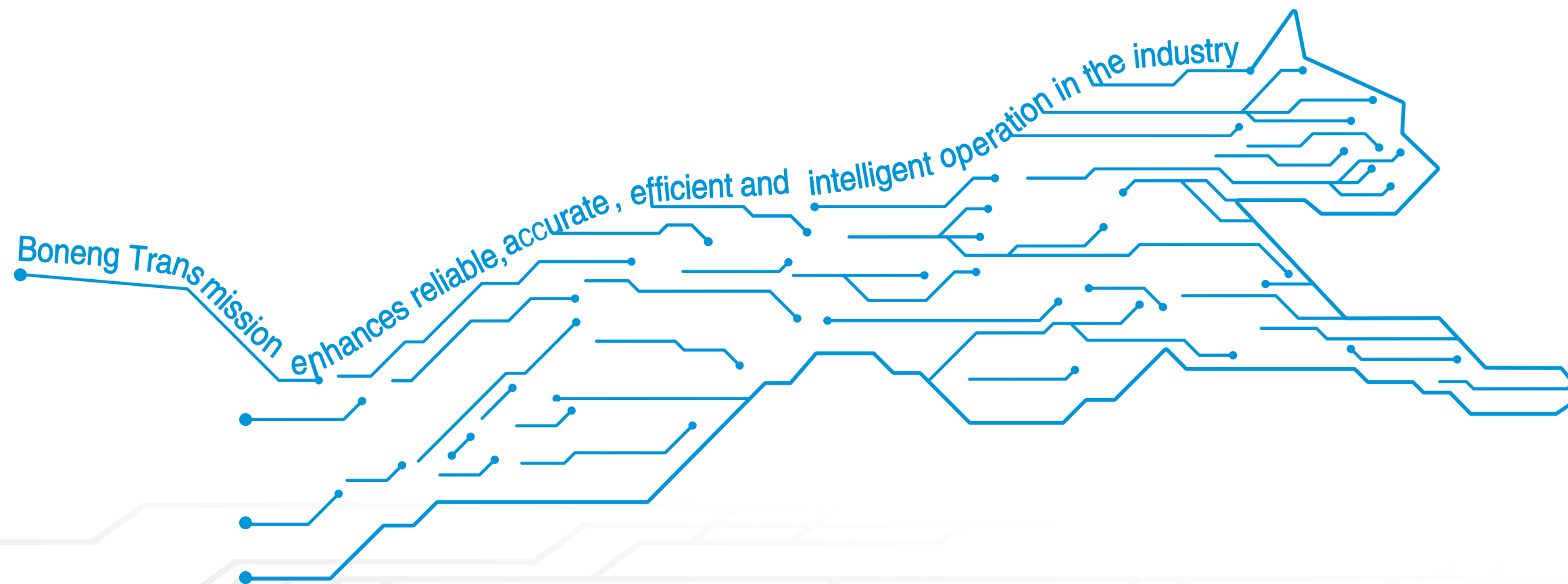
H Helical Gearbox & B Bevel-helical Gearbox



H斜齿齿轮箱&B
锥齿-斜齿齿轮箱

H Helical Gearbox & B
Bevel-helical Gearbox

Edit date 05/2024
Selection Catalogue: C05.0029

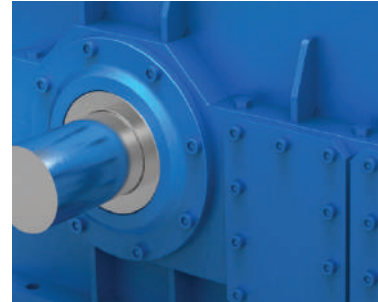


控制器/驱动器/马达/
齿轮马达/齿轮箱

Controller/ Drive/ Motor/
Gearmotor/ Gearbox

H斜齿齿轮箱&B 锥齿-斜齿齿轮箱

H Helical Gearbox & B Bevel-helical Gearbox

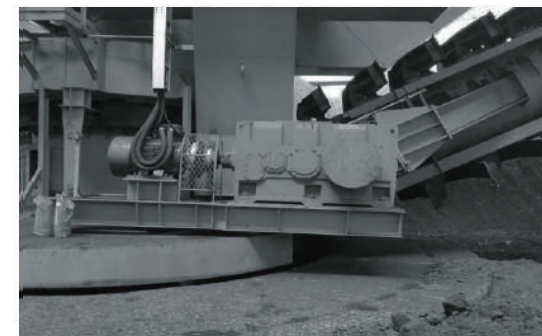
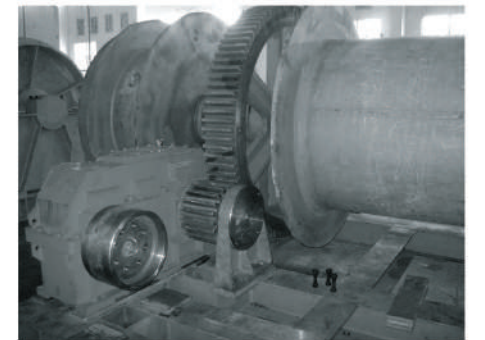
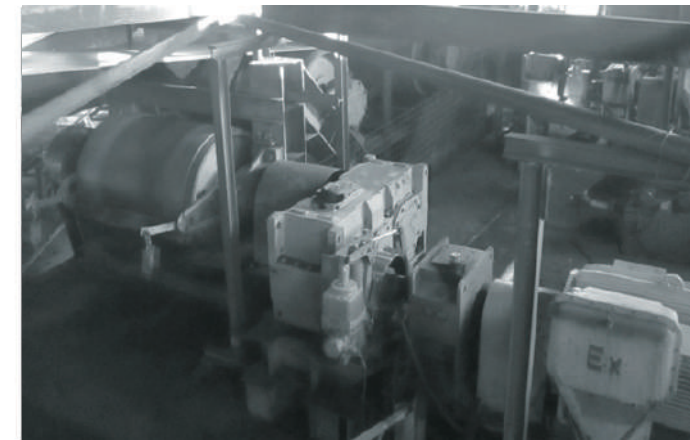
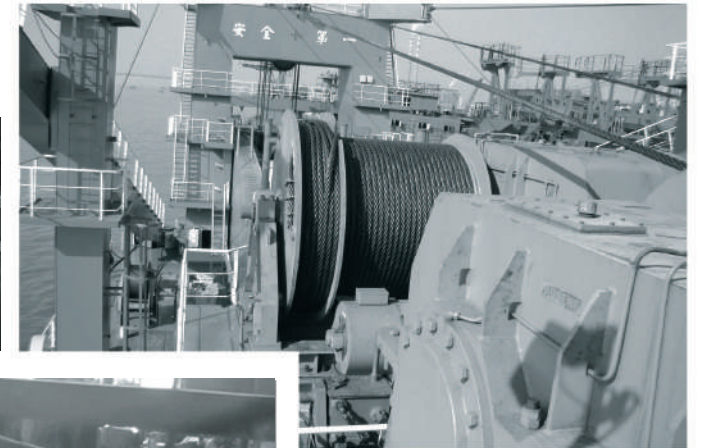


博能公司在总结二十余年齿轮箱设计制造经验，分析和吸收国际上重载齿轮箱设计制造先进技术的基础上，创新发展，推出新型H&B重载齿轮箱，以更好满足客户要求。同国际上先进的重载齿轮箱和博能公司原有H&B工业齿轮箱相比，博能公司新型H&B重载齿轮箱具有：

- ◆ 独创的模块化设计，零部件通用最大化，便于国际化生产，库存少，供货周期短。
- ◆ 独创的模块化设计，功能附件的配置互换程度高，能灵活满足客户设备要求的各种结构及布置形式和不同的使用工况。
- ◆ 传动轴系折线布置，齿轮箱在相同体积下，传动中心距加大，承载能力更强。
- ◆ 齿轮副啮合重合度增大，传动更平稳，噪声更低。
- ◆ 通过拟生态的外观设计，赋予产品运动和力量的天性内涵，体现了博能公司世界级的卓越产品设计理念，并拥有自主知识产权。
- ◆ 箱体框架式的受力结构设计，整体更强劲，底脚更牢固。
- ◆ 改进了冷却风扇和冷却盘管的设计，能更有效降低齿轮箱运行时温度。
- ◆ 输出部分轴封采用双油封密封，密封更可靠，适用工况更广泛。

On the basis of summarizing gearbox design and manufacturing experiences in the past twenty years, analyzing and absorbing advanced technology of international heavy duty gearbox production, Boneng transmission makes innovative development, pushing forward the new type H&B heavy duty gearbox to better satisfy customer requirements. Compared with internationally advanced gearbox and the original H&B industrial gearbox of Boneng, the new type H&B heavy duty gearbox have the following characteristics:

- ◆ Unique modular design, general applications of components are maximized, which is convenient for international production. Storage quantity is small, supplement circle is short.
- ◆ Unique modular design, allocation exchange degree of functional attachments flexibly satisfy various kinds of required structures, arrangement form and different working situations of customer equipment.
- ◆ Transmission shaft is in line layout, under the same volume, transmission central distance is larger, bearing capacity is larger.
- ◆ Wheel pair meshing contact ratio increases, transmission is more stable, noise is lower.
- ◆ The appearance design shows world-wide product design idea of Boneng Transmission, it owns intellectual property rights.
- ◆ Frame type load-carrying structure design, the whole structure is stronger, footing is more fastened.
- ◆ Improved cooling fan and cooling coil design can effectively reduce the temperature during gearbox running.
- ◆ Output shaft sealing applies double oil sealing, the sealing is more reliable, the applications are wider.



在煤炭、电力、石油、冶金、水泥、港口、起重运输行业，博能公司高品质、长寿命的新型齿轮箱都能满足您的要求。

In all industry, all technology team and sales of BONENG will offer best technical solution and best service to you.

目录

Contents

注意事项：

- ◆ 样本中的结构示意图、外形图及其他附图只属范例，无严格比例要求。（未注尺寸单位均为mm）。
- ◆ 所注重量仅为平均值，并不具有约束力。

⚠️ 必须严格遵守以下各项：

- ◆ 为防止意外事故发生，所有旋转部件均按照使用者所在国家 and 地区的安全规范由购置方加罩保护。
- ◆ 试车之前必须认真阅读使用说明书。
- ◆ 齿轮箱在供货时已处于准运行状态，运行前需加注润滑油。
- ◆ 本样本中注油量只作为参考值，实际注油量应以油尺上的标记为准。
- ◆ 润滑油粘度应按齿轮箱使用工况及使用环境温度选取。
- ◆ 推荐采用知名品牌的润滑油。

产品功能标识



油 镜



通气帽



进油孔



放油孔

注意事项：

- ◆ The structure scheme,appearance diagram and other attached diagrams in sample are examples,there is no strict proportion requirement,(The unmarked dimension units are mm).
- ◆ We can only refer to the marked weight in the manual.

⚠️ You must conform to the following instructions

- ◆ To prevent accidents, all the rotation parts should be added with protective covers according to local safety regulations and laws.
- ◆ Before testing, users should read instruction manual carefully.
- ◆ Gearbox has been tested before delivered, users should add lubrication oil before running.
- ◆ We can only refer to the marked oil in the manual. Actual oil filling level should be the same with the mark on oil immersion lens.
- ◆ Lubrication oil viscosity should be selected according to working conditions and the temperature of local environment.
- ◆ Users can only use high quality lubrication oil.

Product Function Mark



Oil glass



Breather



Oil filler



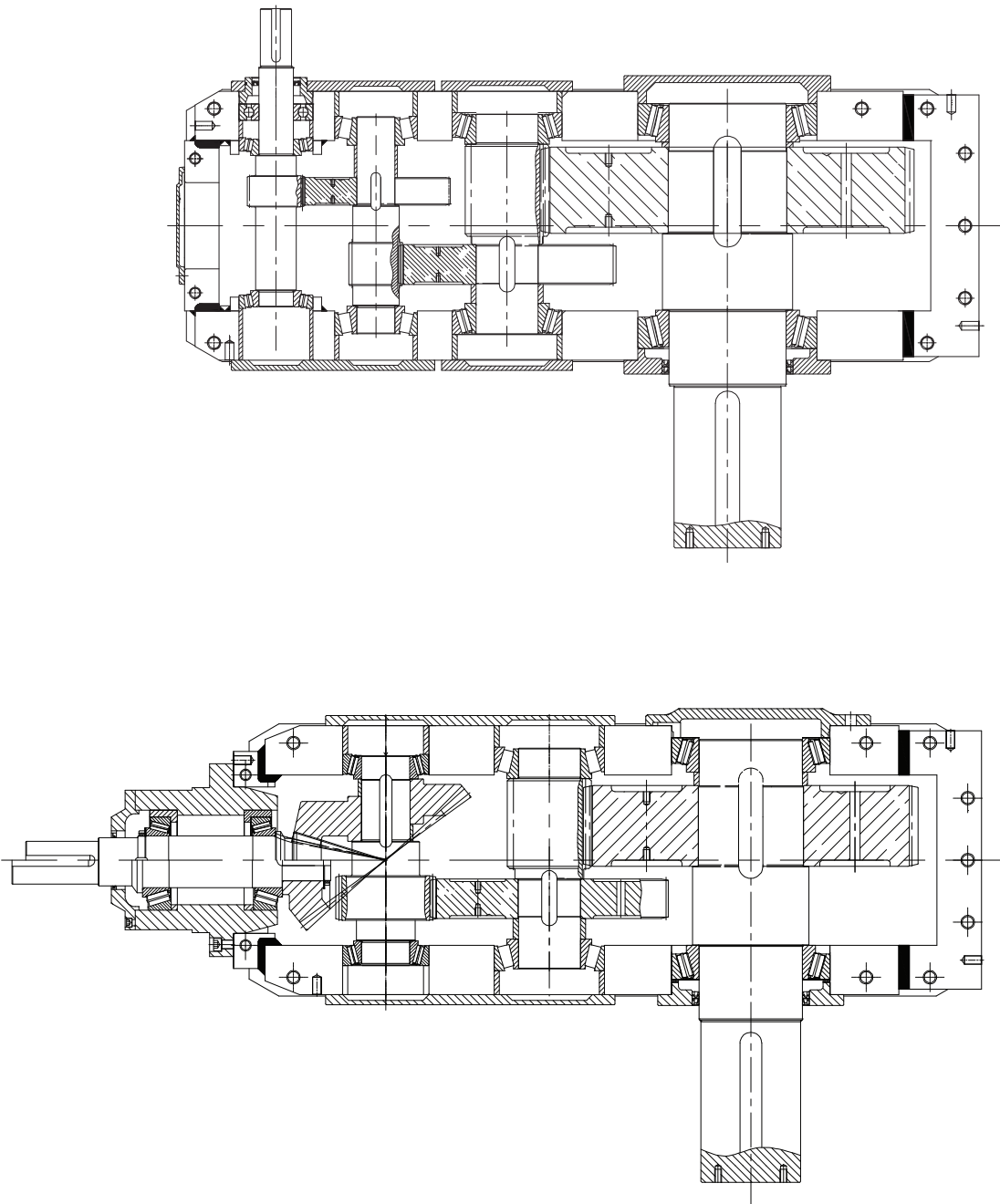
Oil drain

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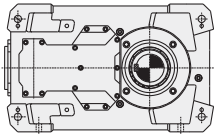
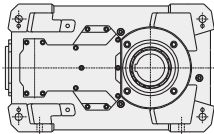
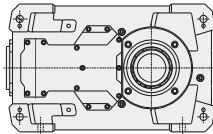
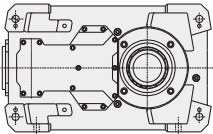
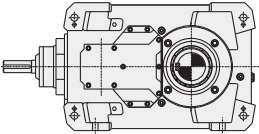
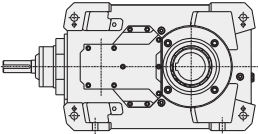
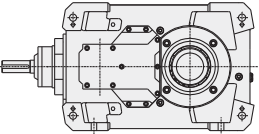
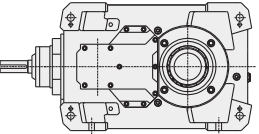
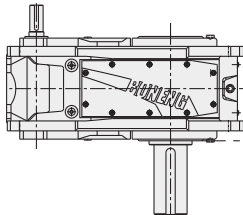
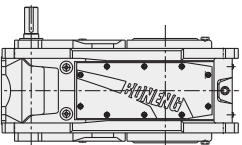
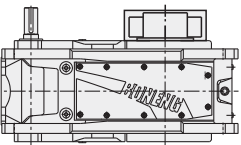
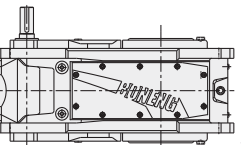
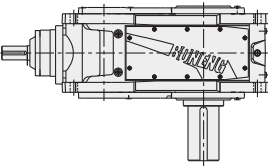
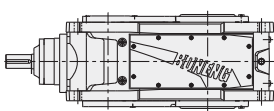
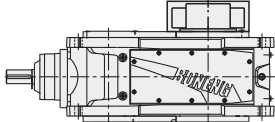
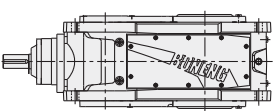
1 结构示意图

1 Structure scheme



2 安装形式

2 Mounting positions

卧式安装		Horizontal mounting		
	Solid shaft	Hollow shaft	Hollow shaft with shrink disk	Hollow shaft with involute spline
H series 5.6-450	 H...HS	 H...HH	 H...HD	 H...HK
B series 6.3-400	 B...HS	 B...HH	 B...HD	 B...HK
立式安装		Vertical mounting		
	Solid shaft	Hollow shaft	Hollow shaft with shrink disk	Hollow shaft with involute spline
H series iN= 5.6 - 450	 H...VS	 H...VH	 H...VD	 H...VK
B series iN= 6.3 - 400	 B...VS	 B...VH	 B...VD	 B...VK

3 Selection

Serial	Definition	Symbol	Parameter calculation
1	Driven equipment factor	f_1	Refer to page5 f_1 table
2	Prime mover factor	f_2	Prime mover factor
			Motor, hydraulic motor, turbine
			4–6 Cylinder piston engine, cyclic variation 1:100 to 1: 200
			1–3 Cylinder piston engine, cyclic variation 1:100
3	Gearbox safety factor	S_F	Refer to page4 s_f table
4	Relation between input and output shafts	H、B	Parallel shaft select H series, right angle, select B series
5	Transmission efficiency of gearbox	η	2–stage:96%,3–stage:94%,4–stage:92%
6	Input speed	n_1	$\leq 1800r/min$ For higher speed, please consult us.
7	Determination of ratio	i	$i=n_1/n_2$
8	Confirm gearbox input power with torque or power needed by driven equipment.	P_1	$P_1=T_2 \cdot n_1/(9550 \cdot i \cdot \eta)$ or $P_1=P_2 / \eta$
9	According to calculation, check transmission capacity table to determine gearbox size	T_{2N} 、 P_{1N}	$T_{2N} \geq T_2 \cdot f_1 \cdot f_2 \cdot S_F$ OR $P_{1N} \geq P_1 \cdot f_1 \cdot f_2 \cdot S_F$ If it doesn't satisfy conditions:3.33 $\cdot P_1 \geq P_{1N}$, Please consult us.
10	Peak torque verification*	T_A	$P_{1N} \geq T_A \cdot n_1 \cdot f_3/9550$
			Load peaks per hour
			Single direction loading
			Alternate loading
11	After selecting connection mounting and accessories, check allowable strength of the shaft	F_{r1}/F_{r2} F_{a1}/F_{a2}	Radial load need to be checked when radial load imposed by belt pulley,chain sprocket and gear are present. (See page 23)
12	Determine lubrication method, select lubrication oil		Horizontal mounting
			Vertical mounting
13	Determine cooling method		Lubrication methods for selection:
			Lubrication methods for selection:
14	Determine each item according to type designation		1) If it satisfies the following condition, the gearbox will not be equipped with auxiliary cooling device.
			2) If it satisfies the following condition, the gearbox will not be equipped with cooling fan.
			3) If it satisfies the following condition, the gearbox will not be equipped with water–oil cooler.
			4) Gearbox can be equipped with other cooling devides:air–oil cooler, water–oil cooler,users can equip petrol station by themselves to provide circulated cooling oil. (Refer to page 4 for f_4 、 f_5 、 f_8)
14	Determine each item according to type designation		Refer to page2

*Peak torque:maximum loading torque means the maximum torque caused by starting,braking or maximum pulse loading. (Under common working conditions,peak torque is the maximum torque may occur when a machine starts or brakes)

Gearbox safety factor		S_F
For ordinary equipment, only single machine stops production when gearbox fails.easy to replace spare parts and minor loss occurred.		$1.0 \leq S_F \leq 1.3$
For important equipment, the production line or the whole plant will stop production, when gearbox fails, great loss occurred, stopping accident loss is large.		$1.3 < S_F \leq 1.5$
High reliability requirement,it may cause heavy production stop accident, when gearbox fails,causing large economic loss and even may cause human life accident.		$1.5 < S_F$

Thermal factor						f4
Gearbox without cooling or with fan						
Ambient temperature	Operating cycle per hour					
	100	80	60	40	20	
10°C	1.11	1.31	1.60	2.14	3.64	
20°C	1.00	1.18	1.44	1.93	3.28	
30°C	0.88	1.04	1.27	1.70	2.89	
40°C	0.75	0.89	1.08	1.45	2.46	
50°C	0.63	0.74	0.91	1.22	2.07	

Thermal factor						f ₅
Gear unit with water–oil cooler						
Ambient temperature		Operating cycle per hour				
		100	80	60	40	20
10℃		1.05	1.23	1.50	2.03	3.41
20℃		1.00	1.17	1.43	1.93	3.25
30℃		0.93	1.09	1.33	1.79	3.02
40℃		0.87	1.02	1.24	1.68	2.83
50℃		0.81	0.95	1.16	1.56	2.63

△ Note: Operating cycle ED: $ED = \frac{t_f}{t_f + t_r} \cdot 100\%$
 t_f : Working time with loading t_r : Stop time.

Vertical mounted gearbox oil supply factor . For horizontally mounted gearbox $f_8=1.0$; When forced lubrication applied, $f_8=1.05$						f_8
Gearbox type	Oil supply method	Without auxiliary cooling device	With cooling fan	With cooling coil	With fan and cooling coil	
H2..V,H3..V H4..V	Dip–in Lubrication	0.95	*	0.95	*	
	Forced Lubrication	1.15	*	1.05	*	
B2..V,B3..V B4..V	Dip–in Lubrication	0.95	0.95	0.95	0.95	
	Forced Lubrication	1.15	1.10	1.10	1.10	

* Please consult us.

---Type designation

Series B 3 12 H S A - C56 - F280 + U F 2 1

H helical gearbox
 B bevel–helical gearbox
Number of Gear Stage _____
 2–stage/3–stage/4–stage
Size _____
Mounting Mode _____
 H=Horizontal mounting
 V=Vertical mounting
Output Shaft Mode _____
 S=Solid shaft with parallel key
 H=Hollow shaft with parallel key
 D=Hollow shaft with shrink disc
 K=Hollow shaft with involute spline
Shaft Assembly Code _____
 A/B/C/D/E/F/G/H/I
Nominal Ratio Code _____
Input Part _____
 M,MH,MP,YZ=Motor
 AF=AF Motorconnection flange
 S=Input shatf
Accessoriesand Specific Configuration _____

4 服务系数

4 Service Factors

表1	Table 1	被驱动 设备系数	Factor for driven machine	
被驱动设备	Driven machines	日带载 运行时间	Effective daily operating period under load in hours	
		≤ 2	> 2-10	> 10
污水处理	Waste water treatment			
浓缩器(中心传动)	Thickeners (central drive)	-	-	1.2
压滤器	Filter presses	1.0	1.3	1.5
絮凝器	Flocculation apparata	0.8	1.0	1.3
曝气机	Aerators	-	1.8	2.0
搂集设备	Raking equipment	1.0	1.2	1.3
纵向、回转组	Combined longitudinal			
合式接集装置	and rotary rakes	1.0	1.3	1.5
浓缩器	Pre-thickeners	-	1.1	1.3
螺杆泵	Screw pumps	-	1.3	1.5
水轮机泵	Water turbines Pumps	-	-	2.0
离心泵	Centrifugal pumps	1.0	1.2	1.3
容积式泵	Positive displacement pumps			
1个活塞	1 piston	1.3	1.4	1.8
>1个活塞	> 1piston	1.2	1.4	1.5
挖泥机	Dredgers			
斗式运输机	Bucket conveyors	-	1.6	1.6
倾卸装置	Dumping devices	-	1.3	1.5
履带式行走机构	Carterpillar travelling gears	1.2	1.6	1.8
斗式挖掘机	Bucket wheel excavators			
用于捡拾	as pick-up	-	1.7	1.7
用于粗料	for primitive material	-	2.2	2.2
切碎机	Cutter heads	-	2.2	2.2
行走机构*	Traversing gears*	-	1.4	1.8
弯板机	Plate bending machines	-	1.0	1.0
化学工业	Chemical industry			
挤出机	Extruders	-	-	1.6
调浆机	Dough mills	-	1.8	1.8
橡胶砑光机	Rubber calenders	-	1.5	1.5
冷却圆筒	Cooling drums	-	1.3	1.4
混料机,用于	Mixers for			
均匀介质	uniform media	1.0	1.3	1.4
非均匀介质	non-uniform media	1.4	1.6	1.7
搅拌机, 用于	Agitators for media with			
密度均匀介质	uniform density	1.0	1.3	1.5
不均匀介质	non-uniform density	1.2	1.4	1.6
不均匀气体吸收	non-uniform gas absorption	1.4	1.6	1.8
烘炉	Toasters	1.0	1.3	1.5
离心机	Centrifuges	1.0	1.2	1.3
金属加工设备	Metal working mills			
翻板机	Plate tilters	1.0	1.0	1.2
推钢机	Ingot pushers	1.0	1.2	1.2
绕线机	Winding machines	-	1.6	1.6
冷床横移架	Cooling bed transfer frames	-	1.5	1.5
辊式矫直机	Roller straighteners	-	1.6	1.6
辊道	Roller tables			
连续式	continuous	-	1.5	1.5
间歇式	intermittent	-	2.0	2.0
可逆式轧管机	Reversing tube mills	-	1.8	1.8
剪切机	Shears			
连续式*	continuous*	-	1.5	1.5
曲柄式*	crank type*	1.0	1.0	1.0
连铸机驱动装置	Continuous casting drivers	-	1.4	1.4
轧机	Rolls			
可逆式开坯机	Reversing blooming mills	-	2.5	2.5
可逆式坯坏轧机	Reversing slabbing mills	-	2.5	2.5
可逆式线材轧机	Reversing wire mills	-	1.8	1.8
可逆式薄板轧机	Reversing sheet mills	-	2.0	2.0
可逆式中厚板轧机	Reversing plate mills	-	1.8	1.8
辊缝调节驱动装置	Roll adjustment drives	0.9	1.0	-

表1	Table 1	被驱动设备系数	Factor for driven machine	
被驱动设备	Driven machines	日带载运行时间	Effective daily operating period under load in hours	
		≤ 2	> 2-10	> 10
输送机械	Conveyors			
斗式输送机	Bucket conveyors	-	1.4	1.5
绞车	Hauling winches	1.4	1.6	1.6
卷扬机	Hoists	-	1.5	1.8
皮带输送机≤150kW	Belt conveyors≤150kW	1.0	1.2	1.3
皮带输送机≥150kW	Belt conveyors≥150kW	1.1	1.3	1.4
货用电梯*	Goods lifts*	-	1.2	1.5
客用电梯*	Passenger lifts*	-	1.5	1.8
刮板式输送机	Apron conveyors	-	1.2	1.5
自动扶梯	Escalators	1.0	1.2	1.4
轨道行走机构	Rail travelling gears	-	1.5	-
变频装置	Frequency converters	-	1.8	2.0
往复式压缩机	Reciprocating compressors	-	1.8	1.9
起重机械**	Cranes**			
回转机构*	Slewing gears*		1.4	1.8
俯仰机构	Luffing gears		1.1	1.4
行走机构	Travelling gears		1.6	2.0
提升机构	Hoisting gears		1.1	1.4
转臂式起重机	Derricking jib cranes		1.2	1.6
冷却塔	Cooling towers			
冷却塔风扇	Cooling tower fans	-	-	2.0
风机（轴流和离心式）	Blowers (axial and radial)	-	1.4	1.5
食品工业	Food industry			
蔗糖生产	Cane sugar production			
甘蔗切碎机*	Cane knives*	-	-	1.7
甘蔗碾磨机	Cane mills	-	-	1.7
甜菜糖生产	Beet sugar production			
甜菜绞碎机	Beet cossettes macerators,	-	-	1.2
榨取机，机械制	Extraction plants, Technical			
冷机、蒸煮机	refrigerators, Juice boilers,	-	-	1.4
甜菜清洗机	Sugarbeet washing machines,			
甜菜切碎机	Sugar beet cutters	-	-	1.5
造纸机械	Paper machines			
各种类型***	of all-kind***	-	1.8	2.0
碎浆机驱动装置	Pulper drives	On request		
离心式压缩机	Centrifugal compressors	-	1.4	1.5
索道缆车	Cableways			
运货索道	Material ropeways	-	1.3	1.4
往返系统空中索道	To- and fro system aerial ropeways	-	1.6	1.8
T型杆升降机	T-bar lifts	-	1.3	1.4
连续索道	Continuous ropeways	-	1.4	1.6
水泥工业	Cement industry			
混凝土搅拌机	Concrete mixers	-	1.5	1.5
破碎机*	Breakers*	-	1.2	1.4
回转窑	Rotary kilns	-	-	2.0
管式磨机	Tube mills	-	-	2.0
选粉机	Separators	-	1.6	1.6
辊压机	Roll crushers	-	-	2.0

表1	Table 1	被驱动设备系数		Factor for driven machine
被驱动设备	Driven machines	日带载运行时间		Effective daily operating period under load in hours
		≤ 2	> 2-10	> 10
木材工业	Wood industry			
剥皮机	Bark peeler			
进给传动	Feed drive	1.25	1.25	1.50
主传动	Main drive	1.75	1.75	1.75
运送机	Transporter			
燃烧器、反复锯、转塔式、转运输送	Burner, band saw, turret lathe, transportation	1.25	1.25	1.50
主要载荷、重载	mainly heavy load	1.50	1.50	1.50
主原木、地坯	mainly raw log	1.75	1.75	2.00
输送链	Conveyor chain			
地板	Parquet	1.50	1.50	1.50
生材	Unprocessed materials	1.50	1.50	1.75
切割链	Cutting chain			
锯传动、牵引	Saw drive and traction	1.50	1.50	1.75
剥皮筒	Barking drum	1.75	1.75	2.00
进给传动	Feed drive			
轧边、修木、刨床进给、分类台、自动倾斜升降	Edgebanding, wood sanding Planer feeding, sorter Automatic inclination and lift	1.25	1.25	1.50
多轴送进、原木搬运和旋转	Multi-spindle feeding Log transport and turning	1.75	1.75	1.75
搬运	Transport			
料盘、胶合板车床传动、输送链、起重式	Delivery plate Plywood lathe drive Conveyor chain, crane type	1.50	1.50	1.75
塑料工业	Plastic industry			
碾磨机、复式磨、涂料、涂膜、输送管、拉杆、薄型	Grinding mill, compound mill Coating and film coating Pipe, pull rod, thin plastic manufacture	1.25	1.25	1.25
管型、拔桩机	Tube, pile drawer accessories	1.25	1.25	1.50
连续混合机、压延机、吹膜、欲塑化	Continuous mixer, calender Film blower, plasticizer	1.50	1.50	1.50
分批混合机	Batch mixer	1.75	1.75	1.75
橡胶工业	Rubber industry			
连续式强力内式拌合机、混合轧机、分批下料碾磨机、(双光棍式除外)精炼机、压延机	Continuous powerful internal stirrer Roller mixer, batch charger Crusher (except double rolls) Refiner, calender	1.50	1.50	1.50
双棍式夹持进给及混合碾磨机	Double-roller clamp feeding Mixer grinder	1.25	1.25	1.50
分批式强力内式拌合机、双光棍式单槽纹棍碾磨机加热器、双光棍式	Batch powerful internal stirrer, Double roll single groove roller grinder, Crusher heater, double rolls, Batch charging grinder	1.75	1.75	1.75
分批下料碾磨机 波形棍式碾磨机	Wave roll crusher	2.00	2.00	2.00
发电机和励磁机	Generator and Exciter	1.00	1.00	1.25
锤式破碎机	Hammer crusher	1.75	1.75	2.00
砂碾机	Sand roller	1.25	1.25	1.50

⚠ 注：1. 被驱动设备使用功率P2的确定：
*) 按最大的扭矩确定额定功率。
**) 实际的服务系数应根据准确的载荷分类进行选择,具体可咨询我司。
***) 检验热容量是绝对必要的。
2. 所列各项系数均为经验值。使用这些系数的前提条件是，所述机械设备应符合通常的设计规范和载荷条件。
如遇特殊情况，敬请垂询。
3. 对于那些未列入此表的工作机械，敬请垂询。

⚠ Note: 1.Determine required power P2 of the driven equipment;
*) Determine rated power according to maximum torque
**) The actual service factor should be selected according to accurate loading classification, for specific information, please consult us
***) It is necessary to check thermal capacity.
2. The factors are experience value.The premise of using these factors is that the above mechanical equipment should conform to common design regulation and loading conditions.If there is special situation,please consult us.
3. For machines that are not listed in this table, please consult us.

5 常用代号说明

5 Key to symbols

Symbols	说明	Instruction	Unit
i	实际减速比	Actua ratio	/
iN	公称减速比	Nominal ratio	
iex	精确减速比	Exact ratio	
T2	输出扭矩	Output torque	N • m
T2N	额定输出扭矩	Reted output torque	
T _A	输入轴上的扭矩，例如峰值操作，启动或制动扭矩	Max.Torque occurring on input shaft, e.g.Peak operating, starting or braking torque	
Tn2atmax	在最高转速时的额定输出扭矩	Nominal output torque at highest speed	
Tn2atmin	在最低转速时的额定输出扭矩	Nominal output torque at lowest speed	
P1N	减速机额定输入功率	Rated input power	kW
PGA	齿轮箱不带冷却装置的额定发热容量	Nominal thermal capacity of gearbox without auxiliary cooling equipment	
PGB	齿轮箱带冷却风扇的额定热容量	Nominal thermal capacity gearbox with cooling fan	
PGC	齿轮箱带冷却盘管的额定热容量	Nominal thermal capacity of gearbox with cooling coil	
PGD	齿轮箱带冷却盘管和风扇或带水油冷却器的额定热容量	Normal thermal capacity of gearbox with water-oil cooler	
P1	输入功率	Input power	/
P2	被驱动设备使用功率	Required power of driven machine	
f1	被驱动设备系数	Driven machine factor	
f2	原动机系数	Prime mover factor	
f3	峰值负荷系数	Peakload factor	
f4	环境温度系数（不带辅助冷却装置或仅带冷却风扇）	Thermal factor(Without auxiliary cooling, or witho fan cooling)	/
f5	环境温度系数（带冷却盘管或带冷却盘管和风扇）	Thermal factor(with water-oil cooler)	
f8	立式安装齿轮箱供油系数	Oil supply factor for vertical gearbox	
Sf	齿轮箱可靠度系数	Safety factor of gearbox	r/min
n1	输入转速	Input speed	
n2	输出转速	Output speed	
n2N	公称输出转速	Nominal output speed	/
η	效率	Efficiency	
f	电机频率	Motor frequency	Hz
Um	电机电压	Motor voltage	V
ED	每小时工作周期	Operating cycle per hour	%

6 选型举例

6 Selection example

已知条件：	Known conditions：
原动机： 电机功率：185kW 电机转速：n1=1450r/min 最大启动扭矩：TA=1850N.m （由用户提供数据，如果无法提供则按照电机额定扭矩的1.6倍估算） 被驱动设备（工作机）： 设备名称：皮带输送机 设备转速：n2=26r/min 使用功率：P2=155kW 工作制：12小时/天 每小时启动次数：7 每小时工作周期：100% 环境温度：40℃ 安装空间：室外安装 海拔高度：500m 齿轮箱： 螺旋锥齿轮-斜齿齿轮箱, 卧式安装, 带平键实心轴输出， 轴布置形式 C 输出轴旋转方向：面向输出轴顺时针旋转 配逆止器（附件代号UB11）	Prime mover Motor power: 90kW Motor speed: n1=1450r/min Maximum starting torque: TA=860N.m (This value is usually provided by the userslf not,normal torquex1.6 preails) Driven equipment (working machine): Type: Belt conveyor Speed: nz=33r/min Required power: P2=72kW Duty: 12 hours/day Starts per hour: 7 Operating cycle per hour: 100% Ambient temperature: 40C Place of installation: Outdoor mounting Altitude: 500m Gear box: Bevel-helical gear unit, horizontal mounting, with parallel key solid shaft output Shaft arrangement form C Output shaft direction of rotation: run clockwise to output shaft With backstop (accessory code UB11)
选型步骤：	Selection procedure：
1. 计算速比： i=n1/n2=1450/26=55.8 iN=C56 2. 确定齿轮箱的额定功率： P1=P2/ η =155/(94%)=165kW P1N≥P1 • f1 • f2 • S- F=165x1.4x1x1.4=323kW 根据传动能力表B3, 机座号14 P1N=340kW 3. 33 • P1=3.33x165=549kW≥P1N 满足要求 3. 峰值扭矩校核： P1N≥TA • n1 • f3/9550 =1850×1450×0.65/9550=183kW P1N=340kW≥183kW 满足要求 4. 校核热容量： PGA • f4 • f8=135×0.75×1=101kW≤P1=165kW 不满足要求 PGB • f4 • f8=330×0.75×1=248kW ≥P1=165kW 满足要求 所以齿轮箱配置冷却风扇可以满足热容量要求， 风扇附件代号为UF21 5. 确定型号： B314HSC-C56+UF21+UB11	1.Calculation of ratio i=n1/n2=1450/33=439 iN=45 2.Determine rated power of gear box P1=P2/n=72/(94%)=76.6kW P1N=P1f1-f2 • S- F=76.6x13x1x14=139.4kWV Refer to transmission capacity table B3,select size 10 P1N=146kW 333 • P1=3.33x76.6=255.1kWPN Satisfy requirements 3.Peak torque verification P1N≥TA • n1 • f3/9550 =860x1450x0.65/9550=84.9kW P1N=146kW=84.9kW Satisfy requirements 4.Verify thermal capacity: PGA • f4 • f8=80.8x0.75x1=60.6kWVsP1=76.6kW Thermal capacity not sufficient PGB • f4 • f8=180x0.75x1=135kWV≥P1=76.6kWV Thermal capacity is sufficient When gear unit with cooling fan, thermal capacity is sufficient. Fan accessory code is UF 21 5.Determine gear unit type: B310HSC-45+UF21+UB11

7 传动能力表

7 Transmission Capacity table

H2 (iN=1.8-5.6)

H2 (iN=1.8-5.6)

Code	i _N	n ₁ (r/min)	n _{2N} (r/min)	H204		H205		H206		H207		H208			
				T _{2N} (kN·m)	i _{ex}	P _{1N} (kW)	T _{2N} (kN·m)	i _{ex}	P _{1N} (kW)	T _{2N} (kN·m)	i _{ex}	P _{1N} (kW)	T _{2N} (kN·m)	i _{ex}	P _{1N} (kW)
B18	1.8	1740	967	4.5	1.781	460									
		1450	806			384									
		1150	639			304									
		960	533			254									
B20	2	1740	870	4.4	1.950	411				6.8	1.949	636			
		14													

B2 (iN=6.3-14)						B2 (iN=6.3-14)						
Code	i _N	n ₁ (r/min)	n _{2N} (r/min)	B213			B214			B215		
				T _{2N} (kN·m)	i _{ex}	P _{1N} (kW)	T _{2N} (kN·m)	i _{ex}	P _{1N} (kW)	T _{2N} (kN·m)	i _{ex}	P _{1N} (kW)
B63	6.3	1740	276.2	76	6.172	2244*	96	6.176	2832*	130	6.176	3835*
		1450	230.2			1870						3196*
		1150	182.5			1483						2535*
		960	152.4			1238						2116
B71	7.1	1740	245.1	76	6.957	1990*	96	6.963	2512			

8 额定热容量(kW)
H2 (kW)

8 Rated thermal capacity(kW)
H2 (kW)

Code	i N		H204				H205				H206				H207			
			960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
B18	1. 8	P _{GA}	69	63	61. 5	52. 5												
		P _{GB}	159	168	198	216												
		P _{GC}	144	151. 5	175. 5	189												
		P _{GD}	243	264	315	354												
B20	2	P _{GA}	72	66. 8	66. 6	57					89	60	52	*				
		P _{GB}	163. 5	174	205. 5	225					190	191	223	222				
		P _{GC}	145.															

Code	i _N		H2 (kW)				H2 (kW)				H2 (kW)				H2 (kW)			
			H219				H220				H221				H222			
			960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
B80	8	PGA	*	*	*	*					*	*	*	*				
B90	9	PGA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
C10	10	PGA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
C11	11.2	PGA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
C13	12.5	PGA	301	*	*	*	289	*	*	*	*	*	*	*	*	*	*	*
C14	14	PGA	328	*	*	*	333	*	*	*	*	*	*	*	*	*	*	*
C16	16	PGA	341	*	*	*	354	*	*	*	336	*	*	*	*	*	*	*
C18	18	PGA	362	*	*	*	368	*	*	*	367	*	*	*	352	*	*	*
C20	20	PGA					378	*	*	*					372	*	*	*

* 敬请垂询

* On request

H223				H224				H225				H226					i _N	Code
960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740			
*	*	*	*													PGA	8	B80
*	*	*	*	*	*	*	*									PGA	9	B90
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	10	C10
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	11.2	C11
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	12.5	C13
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	14	C14
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	16	C16
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	18	C18
				*	*	*	*									PGA	20	C20

* 敬请垂询

* On request

H3 (kW)										H3 (kW)									
Code	i _N		H319				H320				H321				H322				
			960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	
C16	16	PGA	341	*	*	*													
C18	18	PGA	362	*	*	*	368	*	*	*	367	*	*	*					
C20	20	PGA	361	264	*	*	378	*	*	*	373	*	*	*	372	*	*	*	
C22	22.4	PGA	325	232	*	*	369	267	*	*	350	*	*	*	362	*	*	*	
C25	25	PGA	323	234	*	*	333	235	*	*	363	*	*	*	343	*	*	*	
C28	28	PGA	326	252	222	*	338	255	*	*	380	*	*	*	370	*	*	*	
C32	31.5	PGA	327	267	246	*	341	274	249	*	394	276	*	*	389	*	*	*	
C36	35.5	PGA	325	279	268	208	342	290	276	*	404	311	273	*	404	292	*	*	
C40	40	PGA	317	279	272	223	336	293	283	227	401	322	293	*	407	310	269	*	
C45	45	PGA	316	281	276	231	326	287	280	230	393	321	297	*	402	313	278	*	
C50	50	PGA	320	300	304	280	332	309	313	285	410	365	360	303	410	356	344	274	
C56	56	PGA	311	300	310	298	332	319	329	315	401	374	379	347	421	386	387	343	
C63	63	PGA	295	293	307	307	324	320	336	334	393	382	397	386	413	398	411	394	
C71	71	PGA	292	290	306	307	303	301	316	317	373	365	381	374	397	385	400	387	
C80	80	PGA	277	277	292	295	299	299	315	317					377	368	384	376	
C90	90	PGA					283	284	300	304									

* 敬请垂询

* On request

H323				H324				H325				H326					i _N	Code
960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740			
																PGA	16	C16
*	*	*	*					*	*	*	*	*	*	*	*	PGA	18	C18
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	20	C20
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	22.4	C22
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	25	C25
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	28	C28
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	31.5	C32
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	35.5	C36
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	40	C40
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	45	C45
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	50	C50
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	56	C56
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	63	C63
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	71	C71
				*	*	*	*	*	*	*	*	*	*	*	*	PGA	80	C80
																PGA	90	C90

* 敬请垂询

* On request

H4 (kW)							H4 (kW)							
Code	iN		H407				H408				H409			
			960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
C71	71	PGA	48.7	49.5	53.2	56.7	56.9	76.1	82.4	84.2	70.7	72.5	75	77.3
C80	80	PGA	47.1	48.7	51.1	54.8	55.2	56.9	78.6	82.4	67.6	70.7	72.5	75
C90	90	PGA	45.4	47.1	49.5	53.2	52.5	55.2	76.1	78.6	65.1	67.6	70.7	72.5
D10	100	PGA	43.6	45.4	48.7	51.1	50.5	52.5	56.9	76.1	60.8	65.1	67.6	70.7
D11	112	PGA	42	43.9	47.1	49.5	49	50.5	55.2	56.9	58.2	60.6	65.1	68.2
D13	125	PGA	40.8	42.7	45.8	48.1	46.8	49	52.5	55.2	56.4	58.8	63.1	66.3
D14	140	PGA	38.7	40.6	43.5	45.9	44.9	47.1	50.5	53.2	54.6	57.1	61.3	64.5
D16	160	PGA	37.2	39.1	41.9	44.2	43.6	45.7	49.1	51.7	51.6	54.1	58	61.1
D18	180	PGA	35.8	37.7	40.4	42.7	41.4	43.6	46.7	49.4	49.4	52	55.8	58.9
D20	200	PGA	34.4	36.3	38.9	41.2	39.9	42	45.1	47.7	47.8	50.3	54	57.1
D22	224	PGA	32.4	34.2	36.7	38.9	38.2	40.3	43.2	45.7	45.9	48.4	52	55
D25	250	PGA	31	32.7	35.1	37.1	37	39	41.9	44.3	43.8	46.2	49.6	52.5
D28	280	PGA	30.1	31.7	34	36	34.7	36.6	39.3	41.6	42.5	44.9	48.2	51
D32	315	PGA	29.4	31.1	33.3	35.3	33.3	35.1	37.6	39.8	40.5	42.8	45.9	48.6
D36	355	PGA									39.8	42	45.1	47.7
D40	400	PGA									37.9	40	43	45.5

H410				H411				H412					iN	Code
960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740			
73.5	76.4	81.5	83.9	95.5	99.1	105.1	113.1	110	115	127	135	PGA	71	C71
71.7	73.5	78.7	81.5	92.4	99.1	102	108.7	110	115	122	131	PGA	80	C80
68.3	71.7	76.4	78.7	92.4	95.5	103	105.1	106	110	119	127	PGA	90	C90
65.6	68.3	73.5	76.4	90.1	92.4	99.1	102	103	110	115	122	PGA	100	D10
63.7	65.6	71.7	73.5	89.4	92.4	99.1	103	102	106	115	119	PGA	112	D11
61.1	63.7	68.3	71.7	85.8	89	95.5	99.8	99.7	103	110	115	PGA	125	D13
58.5	61.1	65.6	69	83	86.5	92.8	97.3	98.9	102	110	115	PGA	140	D14
56.7	59.4	63.7	67.1	79	82.5	88.5	93	95.3	99.4	106	111	PGA	160	D16
54.9	57.7	61.9	65.3	76.2	80	85.8	90.4	91.8	96.2	103	108	PGA	180	D18
51.8	54.5	58.5	61.9	72	75.7	81.3	85.8	87.6	92.1	98.9	104	PGA	200	D20
49.6	52.4	56.2	59.5	69	72.8	78.1	82.7	84.4	89	95.5	101	PGA	224	D22
48.2	50.8	54.5	57.7	65.6	69.2	74.2	78.5	79.7	84	90.2	95.4	PGA	250	D25
46.2	48.7	52.3	55.3	63.1	66.6	71.4	75.6	76.7	80.9	86.8	91.8	PGA	280	D28
44.1	46.5	49.9	52.8	61.6	64.9	69.7	73.7	72.7	76.7	82.2	87	PGA	315	D32
42.8	45.2	48.5	51.3	58.6	61.8	66.3	70.1	69.9	73.8	79.2	83.8	PGA	355	D36
40.8	43.1	46.2	48.9	55.9	58.9	63.2	66.8	68.3	72	77.3	81.8	PGA	400	D40

H4 (kW)							H4 (kW)							
Code	iN		H413				H414				H415			
			960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
C63	63	PGA												
C71	71	PGA	130	133	136	144	147	151	162	173	180	187	196	199
C80	80	PGA	127	130	134	141	143	148	158	169	174	180	191	193
C90	90	PGA	123	126	133	138	139	144	154	162	168	175	183	187
D10	100	PGA	120	121	130	134	136	141	149	158	161	160	172	174
D11	112	PGA	117	120	129	133	132	136	146	153	154	156	167	141
D13	125	PGA	114	117	126	131	128	132	142	147	149	152	163	168
D14	140	PGA	110	114	123	128	125	129	139	145	144	148	158	165
D16	160	PGA	104	108	116	122	121	126	135	142	138	143	153	160
D18	180	PGA	100	105	113	119	118	123	132	139	136	142	152	160
D20	200	PGA	98. 2	103	110	116	111	117	126	133	132	139	149	157
D22	224	PGA	93. 7	98. 8	106	112	107	113	121	128	123	130	140	148
D25	250	PGA	89. 1	94	100	106	104	110	118	125	117	123	132	140
D28	280	PGA	86. 3	91. 1	97. 7	103	99. 1	104	112	118	113	120	128	136
D32	315	PGA	82. 8	87. 3	93. 7	99. 1	95. 5	100	108	114	108	114	122	129
D36	355	PGA	78. 9	83. 3	89. 4	94. 6	91. 9	96. 9	104	110	106	112	120	127
D40	400	PGA	75. 6	80. 9	86	90. 1	88. 3	93. 2	100	105	103	104	116	123
D45	450	PGA	72. 9	78. 8	82. 3	88. 2	84. 2	88. 8	95. 3	100	97. 7	102	111	117

H416				H417				H418					iN	Code
960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740			
				206	210	215	218					PGA	63	C63
193	200	210	215	199	203	210	213	211	214	225	228	PGA	71	C71
187	193	204	206	193	195	202	205	206	210	221	223	PGA	80	C80
180	187	196	203	185	190	195	197	199	204	213	215	PGA	90	C90
171	175	186	192	180	178	190	191	191	193	205	209	PGA	100	D10
166	167	179	183	173	173	186	189	185	185	198	201	PGA	112	D11
160	162	174	179	167	169	181	186	177	179	192	197	PGA	125	D13
153	158	169	175	161	164	176	183	171	175	188	194	PGA	140	D14
148	153	164	171	154	159	171	178	165	170	182	190	PGA	160	D16
142	148	159	167	151	157	169	177	158	165	177	185	PGA	180	D18
139	146	157	165	146	153	164	173	156	163	175	184	PGA	200	D20
136	144	154	163	136	144	154	163	151	159	170	180	PGA	224	D22
126	133	143	151	130	137	147	155	141	148	159	168	PGA	250	D25
120	126	135	143	126	133	143	151	133	141	151	160	PGA	280	D28
116	122	131	139	121	127	136	144	130	137	147	155	PGA	315	D32
111	118	126	134	118	124	133	141	124	131	141	149	PGA	355	D36
109	115	123	130	115	120	129	136	121	128	138	146	PGA	400	D40
102	109	116	123					116	125	130	139	PGA	450	D45

H4 (kW)										H4 (kW)								
Code	iN		H419				H420				H421				H422			
			960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
C63	63	PGA																
C71	71	PGA	292	290	306	307	303	301	316	317	373	365	381	374	397	385	400	387
C80	80	PGA	277	277	292	295	299	299	315	317	358	352	369	365	377	368	384	376
C90	90	PGA	263	264	280	284	283	284	300	304	349	345	363	362	361	355	372	368
D10	100	PGA	253	246	264	263	272	276	294	303	346	325	348	335	356	358	379	385
D11	112	PGA	243	241	259	262	260	257	276	279	340	329	352	349	350	335	358	351
D13	125	PGA	235	237	254	259	249	250	268	273	330	325	348	350	344	335	359	358
D14	140	PGA	227	231	248	255	241	245	263	271	313	314	336	343	334	332	356	361
D16	160	PGA	218	224	240	249	232	238	255	265	301	305	327	336	317	319	342	350
D18	180	PGA	208	216	232	243	224	232	249	261	297	306	329	342	304	313	335	348
D20	200	PGA	201	211	226	238	214	224	240	253	280	292	314	329	300	313	335	352
D22	224	PGA	193	204	219	232	206	217	233	247	268	283	303	321	283	299	321	340
D25	250	PGA	183	193	208	220	198	209	224	237	253	267	287	304	270	285	305	323
D28	280	PGA	176	186	199	211	188	198	213	225	243	257	276	292	255	269	289	306
D32	315	PGA	172	182	195	207	181	191	204	216	233	246	264	280	245	259	278	294
D36	355	PGA	164	173	186	197	177	187	200	212	222	235	252	267	236	249	267	283
D40	400	PGA					168	177	190	201	*	*	*	*	225	238	255	270
D45	450	PGA					*	*	*	*					*	*	*	*

* 敬请垂询

* On request

H423				H424				H425				H426					iN	Code
960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740			
*	*	*	*					*	*	*	*	*	*	*	*	PGA	63	C63
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	71	C71
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	80	C80
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	90	C90
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	100	D10
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	112	D11
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	125	D13
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	140	D14
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	160	D16
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	180	D18
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	200	D20
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	224	D22
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	250	D25
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	280	D28
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	315	D32
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	355	D36
*	*	*	*	*	*	*	*									PGA	400	D40
																PGA	450	D45

* 敬请垂询

* On request

		B2 (kW)				B2 (kW)								
Code	iN		B213				B214				B215			
			960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
B63	6. 3	PGA	*	*	*	*	*	*	*	*	*	*	*	*
		PGB	906	996	1036	1028	1129	1241	1290	1274	1302	1422	1478	1406
		PGC	1132	1245	1295	1285	1411	1551	1613	1592	1627	1778	1847	1758
		PGD	1574	1740	1839	1894	1954	2150	2267	2322	2168	2311	2393	2342
B71	7. 1	PGA	128	*	*	*	150	*	*	*	*	*	*	*
		PGB	637	683	676	616	768	817	804	721	756	762	720	563
		PGC	878	969	1009	1020	1082	1193	1242	1251	1206	1324	1378	1350
		PGD	1541	1733	1848	1946	1895	2124	2261	2371	2028	2218	2331	2367
B80	8	PGA	131	*	*	*	154	*	*	*	*	*	*	*
		PGB	588	643	646	616	705	767	768	723	705	735	713	609
		PGC	782	865	901	922	948	1047	1091	1113	1085	1194	1242	1239
		PGD	1375	1562	1674	1785	1663	1884	2016	2143	1830	2032	2152	2230
B90	9	PGA	135	111	*	*	164	*	*	*	144	*	*	*
		PGB	565	630	640	630	699	775	785	766	684	732	724	658
		PGC	731	810	844	872	922	1020	1063	1095	1026	1132		

* 敬请垂询

* On request

B216				B217				B218					iN	Code
960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740			
*	*	*	*	*	*	*	*					PGA	6. 3	B63
1426	1555	1615	1522	1527	1661	1724	1598					PGB		
1782	1944	2019	1902	1909	2076	2155	1997					PGC		
2366	2499	2574	2482	2530	2633	2689	2533					PGD		
*	*	*	*	*	*	*	*	*	*	*	*	PGA	7. 1	B71
815	809	754	560	838	811	740	503	897	849	760	473	PGB		
1316	1442	1500	1458	1430	1563	1625	1561	1535	1677	1742	1656	PGC		
2204	2394	2505	2519	2386	2563	2666	2639	2558	2723	2817	2751	PGD		
*	*	*	*	*	*	*	*	*	*	*	*	PGA	8	B80
784	807	775	641	793	800	756	592	874	868	808	600	PGB		
1225	1346	1401	1387	1297	1424	1481	1452	1434	1572	1634	1589	PGC		
2059	2273	2400	2467	2174	2378	2499	2539	2402	2608	2729	2743	PGD		
150	*	*	*	*	*	*	*	*	*	*	*	PGA	9	B90
730	773	759	674	774	807	782	669	823	847	812	671	PGB		
1094	1206	1256	1262	1234	1358	1413	1409	1299	1429	1486	1471	PGC		
1853	2073	2204	2306	2078	2308	2444	2533	2188	2414	2549	2619	PGD		
155	*	*	*	149	*	*	*	*	*	*	*	PGA	10	C10
704	759	753	694	737	783	770	688	799	839	818	712	PGB		
1037	1145	1192	1209	1145	1262	1314	1322	1237	1362	1418	1418	PGC		
1760	1984	2118	2237	1935	2167	2306	2416	2085	2322	2464	2564	PGD		
154	*	*	*	144	*	*	*	159	*	*	*	PGA	11. 2	C11
662	720	721	679	669	720	714	656	760	809	797	715	PGB		
946	1045	1088	1110	1014	1119	1166	1181	1151	1270	1322	1331	PGC		
1616	1831	1960	2083	1720	1938	2068	2183	1940	2175	2315	2428	PGD		
149	*	*	*	140	*	*	*	158	*	*	*	PGA	12. 5	C13
598	661	669	650	637	658	685	621	691	750	749	701	PGB		
831	920	958	986	905	966	1062	1078	1021	1127	1174	1195	PGC		
1430	1632	1754	1882	1623	1768	1809	1865	1730	1957	2093	2221	PGD		
139	*	*	*	136	*	*	*	157	*	*	*	PGA	14	C14
519	623	637	603	601	614	634	594	653	694	715	685	PGB		
781	838	882	903	847	935	967	1012	886	1043	1061	1054	PGC		
1327	1465	1632	1704	1504	1632	1777	1783	1625	1768	1876	2056	PGD		

* 敬请垂询

* On request

B3 (kw)										B3 (kw)									
Code	iN		B319				B320				B321				B322				
			960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	
C16	16	PGA	*	*	*	*	*	*	*	*									
		PGB	*	*	*	*	*	*	*	*									
C18	18	PGA	*	*	*	*	*	*	*	*	*	*	*	*					
		PGB	*	*	*	*	*	*	*	*	*	*	*	*					
C20	20	PGA	271	211	*	*	*	*	*	*	270	*	*	*	*	*	*	*	
		PGB	814	865	839	761	*	*	*	*	899	920	813	622	*	*	*	*	
C22	22.4	PGA	276	222	*	*	286	226	*	*	279	*	*	*	270	*	*	*	
		PGB	795	850	836	774	833	888	864	789	881	910	824	661	907	920	793	576	
C25	25	PGA	281	241	*	*	297	250	*	*	292	*	*	*	291	*	*	*	
		PGB	763	826	833	803	816	880	881	840	846	889	841	732	893	926	844	688	
C28	28	PGA	285	257	200	*	241	269	*	*	301	244	*	*	306	*	*	*	
		PGB	731	800	828	826	826	854	878	869	811	868	855	794	857	906	869	773	
C32	31.5	PGA	279	260	216	*	302	279	227	*	299	257	*	*	312	256	*	*	
		PGB	688	760	799	814	782	824	863	874	759								

* 敬请垂询

* On request

B323				B324				B325				B326					iN	Code
960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740			
																PGA	16	C16
																PGB		
																PGA	18	C18
																PGB		
*	*	*	*													PGA	20	C20
*	*	*	*													PGB		
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	22.4	C22
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGB		
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	25	C25
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGB		
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	28	C28
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGB		
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	31.5	C32
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGB		
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	35.5	C36
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGB		
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	40	C40
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGB		
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	45	C45
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGB		
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	50	C50
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGB		
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	56	C56
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGB		
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	63	C63
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGB		
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	71	C71
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGB		
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	80	C80
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGB		
				*	*	*	*									PGA	90	C90
				*	*	*	*									PGB		

* 敬请垂询

* On request

Code	iN		B4 (kW)				B4 (kW)											
			B405				B406				B407				B408			
			960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
D10	100	PGA	26.6	28.5	29.6	30.9	30.6	32.7	34	35.4	38.8	41.4	43.1	44.8	45.3	48.2	50.2	52
D11	112	PGA	25.6	27.5	28.6	29.8	29.9	32	33.3	34.7	37.4	39.9	41.5	43.2	44	46.9	48.8	50.6
D13	125	PGA	24.5	26.3	27.4	28.5	28.6	30.6	31.8	33.2	35.7	38.2	39.7	41.4	41.6	44.4	46.2	48
D14	140	PGA	23.4	25.1	26.1	27.3	27.5	29.5	30.7	32	33.9	36.3	37.8	39.4	40.1	42.9	44.6	46.5
D16	160	PGA	21.5	23.1	24.1	25.2	26.3	28.2	29.4	30.7	30.9	33.2	34.5	36.1	38.2	41	42.7	44.5
D18	180	PGA	21.1	22.7	23.6	24.7	25.1	27	28.1	29.4	30.1	32.4	33.7	35.2	36.4	39	40.7	42.5
D20	200	PGA	20.4	21.9	22.8	23.9	23.1	24.9	25.9	27.1	29.9	32.1	33.5	35	33.2	35.7	37.2	38.9
D22	224	PGA	19	20.4	21.3	22.3	22.7	24.4	25.4	26.7	27.8	30	31.2	32.7	32.4	34.9	36.4	38.1
D25	250	PGA	18.5	20	20.8	21.8	21.8	23.5	24.5	25.7	26.9	29	30.2	31.7	32.1	34.6	36	37.8
D28	280	PGA	17.6	19	19.8	20.9	20.4	22	22.9	24.1	25.2	27.2	28.4	29.8	30	32.3	33.7	35.4
D32	315	PGA	16.5	17.8	18.6	19.5	19.8	21.4	22.3	23.5	23.6	25.5	26.6	27.9	28.8	31.1	32.4	34.1
D36	355	PGA	16.0	17.3	18.1	19.0	19	20.5	21.3	22.4	22.7	24.4	25.4	26.6	27.1	29.2	30.4	32
D40	400	PGA	15.4	16.6	17.3	18.1	17.7	19.1	19.9	21	21.2	22.7	23.7	24.9	25.4	27.4	28.6	30

B409				B410				B411				B412					iN	Code
960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740			
55.6	59.1	61.5	63.6	60.4	64.1	66.7	68.8	84.4	88.9	92.4	94.7	101	106	110	112	PGA	100	D10
53.5	56.9	59.2	61.4	59	62.7	65.3	67.5	80.4	84.9	88.3	90.7	97.6	102	106	109	PGA	112	D11
51	54.4	56.6	58.8	56	59.7	62.1	64.3	77	81.5	84.8	87.3	93.2	98.4	102	105	PGA	125	D13
48.1	51.4	53.5	55.6	53.9	57.5	59.9	62.2	72.8	77.3	80.4	83.1	88.8	94.1	97.8	100	PGA	140	D14
44	47	49	51	51.3	54.9	57.2	59.5	66.4	70.7	73.6	76.2	85.1	90.4	94.1	97.2	PGA	160	D16
42.9	46	47.9	50	48.7	52.2	54.3	56.6	64.6	69	71.8	74.6	80.6	85.9	89.3	92.6	PGA	180	D18
42	45.1	47	49.1	44.6	47.8	49.8	52	63.2	67.7	70.5	73.4	73.6	78.7	81.9	85.2	PGA	200	D20
39.3	42.3	44	46.1	43.4	46.7	48.6	50.9	59.4	63.8	66.5	69.5	71.8	77	80.2	83.7	PGA	224	D22
37.9	40.8	42.5	44.6	42.5	45.8	47.8	50.1	57.5	61.9	64.5	67.6	70.1	75.4	78.6	82.3	PGA	250	D25
36.1	39	40.6	42.7	39.8	43	44.8	47.1	55	59.3	61.8	65	65.8	71	74	77.7	PGA	280	D28
33.9	36.6	38.2	40.1	38.4	41.5	43.2	45.4	51.3	55.4	57.8	60.7	63.7	68.7	71.6	75.2	PGA	315	D32
31.9	34.4	35.8	37.6	36.6	39.6	41.2	43.3	48.9	52.9	55.1	57.9	60.8	65.6	68.4	71.8	PGA	355	D36
								46.6	52.9	52.5	55.2	56.7	61.2	63.8	67	PGA	400	D40

Code	iN		B4 (kW)				B4 (kW)							
			B413				B414				B415			
			960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
C90	90	PGA												
D10	100	PGA	112	117	121	123	130	135	140	142	146	150	156	155
D11	112	PGA	107	112	116	118	126	132	137	139	139	144	149	150
D13	125	PGA	102	108	112	114	119	125	130	133	132	138	143	144
D14	140	PGA	97. 6	103	107	109	114	120	125	128	128	134	139	141
D16	160	PGA	92. 4	97. 8	101	104	110	116	121	124	121	127	132	135
D18	180	PGA	87. 2	92. 8	96. 5	99. 8	103	110	114	118	114	120	125	129
D20	200	PGA	85. 2	91	94. 7	98. 3	98. 5	105	109	113	112	119	124	128
D22	224	PGA	79. 9	85. 6	89. 1	92. 9	93. 2	99. 8	104	108	105	112	117	121
D25	250	PGA	77. 3	83. 1	86. 6	90. 6	90. 6	97. 4	101	106	102	109	114	119
D28	280	PGA	73	78. 8	82. 1	86. 3	85. 2	92	95. 9	100	95	102	106	112
D32	315	PGA	69. 6	75. 2	78. 4	82. 3	82. 4	89	92. 7	97. 4	89. 7	96. 9	100	106
D36	355	PGA	67	68. 2	76. 2	79. 3	77. 8	84	87. 6	92	82. 3	92. 6	95	103
D40	400	PGA	63. 2	65. 1	72. 8	76. 5	74. 1	80	83. 4	87. 6	79. 6	89. 1	92	99

B416				B417				B418					iN	Code
960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740			
				175	176	178	183					PGA	90	C90
160	163	169	168	164	167	170	173	180	182	188	185	PGA	100	D10
151	155	161	161	157	161	165	167	169	173	179	177	PGA	112	D11
144	149	155	155	149	154	160	159	161	166	172	171	PGA	125	D13
137	143	148	150	144	149	156	155	154	159	165	166	PGA	140	D14
132	138	143	146	136	142	150	147	148	155	160	162	PGA	160	D16
124	131	136	140	128	135	143	140	139	146	152	155	PGA	180	D18
117	125	130	134	126	134	143	139	132	140	146	150	PGA	200	D20
116	123	128	133	117	125	135	130	130	138	144	149	PGA	224	D22
108	116	120	126	114	122	133	127	122	131	136	142	PGA	250	D25
104	113	117	123	107	115	126	120	117	127	132	139	PGA	280	D28
98. 5	106	110	116	101	109	119	113	110	119	124	131	PGA	315	D32
92. 4	99. 7	103	109	97	102	113	108	104	113	117	123	PGA	355	D36
88	95. 2	99	105					108	110	113	117	PGA	400	D40

B4 (kW)							B4 (kW)											
Code	iN		B419				B420				B421				B422			
			960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
C90	90	PGA																
D10	100	PGA	227	228	236	230	246	247	255	247	319	311	321	301	344	330	339	312
D11	112	PGA	216	219	227	223	232	235	243	238	309	306	315	300	322	314	323	302
D13	125	PGA	205	210	218	216	221	226	234	231	291	291	300	290	313	309	318	303
D14	140	PGA	198	204	211	212	211	217	225	224	281	284	294	288	294	294	304	294
D16	160	PGA	187	194	202	204	203	210	218	220	265	271	281	278	284	288	298	292
D18	180	PGA	175	183	190	194	191	200	208	211	248	256	266	266	269	276	286	285
D20	200	PGA	174	183	191	196	179	189	196	201	240	251	260	264	251	261	271	274
D22	224	PGA	163	174	181	187	179	190	198	205	224	237	246	253	243	256	266	273
D25	250	PGA	158	169	176	184	168	180	187	195	217	232	241	251	227	243	252	262
D28	280	PGA	148	160	167	175	161	174	182	191	207	224	233	245	220	237	247	260
D32	315	PGA	140	152	158	166	153	165	172	180	193	209	217	228	240	227	236	248
D36	355	PGA	*	*	*	*	144	155	162	170	*	*	*	*	196	211	220	231
D40	400	PGA					*	*	*	*	*	*	*	*	*	*	*	*

* 敬请垂询

* On request

B423				B424				B425				B426					iN	Code
960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740			
*	*	*	*					*	*	*	*	*	*	*	*	PGA	90	C90
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	100	D10
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	112	D11
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	125	D13
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	140	D14
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	160	D16
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	180	D18
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	200	D20
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	224	D22
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	250	D25
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	280	D28
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	315	D32
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	PGA	355	D36
				*	*	*	*									PGA	400	D40

* 敬请垂询

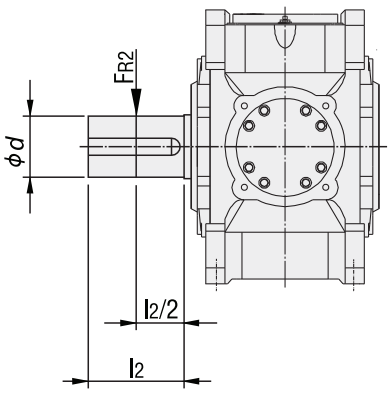
* On request

9 输出轴允许的附加径向力

9.1 输出轴d上允许的附加径向力

9 Permissible additional radial force on output shaft

9.1 Permissible additional radial force on output shaft

允许的附加径向力FR2 (kN), 作用于输出轴轴伸中部			Permissible additional radial force FR2 (kN), applied at midpait of extension of output shaft									
	Type	Arrangement	04	05	06	07	08	09	10	11	12	
	H2. . HS	A+B+G+H	10	22	22	30	30	30	45	64	64	
		C+D	10	13	13	18	18	20	28	35	35	
	H3. . HS	A+B+G+H		29	29	40	40	40	60	85	85	
		C+D		18	18	26	26	30	40	50	50	
	H4. . HS	C+D				40	40	40	60	85	85	
		A+B+G+H		18	18	26	26	30	40	50	50	
	B2. . HS	A+C	13	27	27	37	37	38	55	78	78	
		B+D	12	15	15	17	17	20	30	35	35	
	B3. . HS	A+C	14	29	29	40	40	40	60	85	85	
B+D			18	18	26	26	30	40	50	50		
B4. . HS	A+C		29	29	40	40	40	60	85	85		
	B+D		18	18	26	26	30	40	50	50		

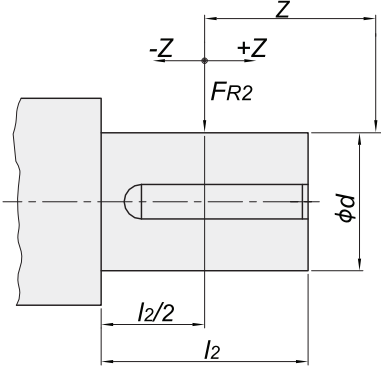
Type	Arrangement	13	14	15	16	17	18	19	20	21	22	23	24	25	26
H2. . HS	A+B+G+H	150	150	160	205	205	205	365	372	395	400	470	465	460	530
	C+D	112	112	120	135	135	135	284	305	308	330	365	380	355	430
H3. . HS	A+B+G+H	190	190	200	265	265	265	365	372	395	400	470	465	460	530
	C+D	150	150	160	185	185	190	284	305	308	330	365	380	355	430
H4. . HS	C+D	190	190	200	265	265	265	365	372	395	400	470	465	460	530
	A+B+G+H	150	150	160	185	185	190	284	305	308	330	365	380	355	430
B2. . HS	A+C	160	160	170	210	210	210								
	B+D	110	110	115	145	145	145								
B3. . HS	A+C	190	190	200	265	265	265	365	372	395	400	470	465	460	530
	B+D	150	150	160	185	185	190	284	305	308	330	365	380	355	430
B4. . HS	A+C	190	190	200	265	265	265	365	372	395	400	470	465	460	530
	B+D	150	150	160	185	185	190	284	305	308	330	365	380	355	430

注：1.如果给定了力的作用角和旋转方向,通常情况下,可允许承受较大的附加力。请与我司联系。
2.*允许的附加径向力FR2(KN), 作用于输出轴端中部, 当作用力不在轴端中部时, 请参见9.2。
3.基础螺栓的最低性能等级为8.8级。基础必须干燥,不得有油脂。如用户要求, 允许输入轴d1上附加径向力,具体请与我司联系。

Note: 1. If the angle of applied force and the direction of rotation are given, higher additional force can mostly allowed. Please consult us.
2.*Permissible Additional Radial Forces FR2(kN) acting on the center of the output shaft. For application of force outside the center of the shaft end, see 9.2.
3. Lowest performance level of foundation bolt is 8.8. The foundation should be dry and grease free. If customers have requirements, radial force is allowed to be applied at input shaft d1. Please consult us.

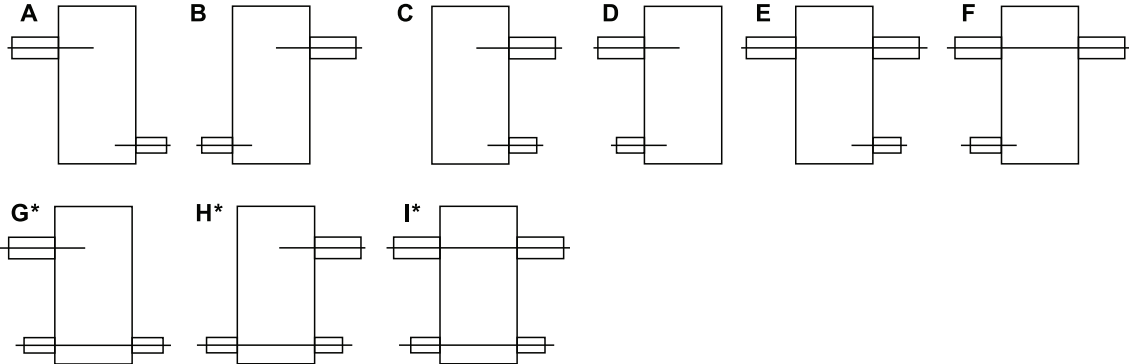
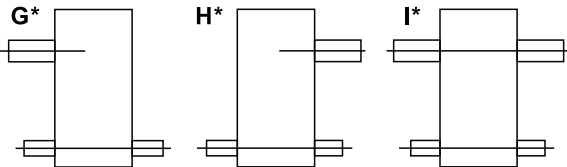
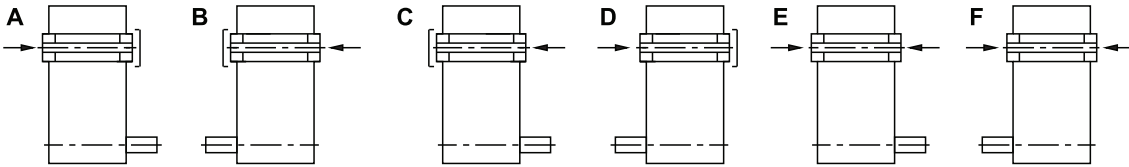
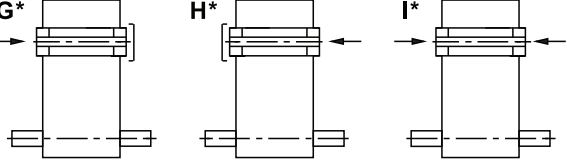
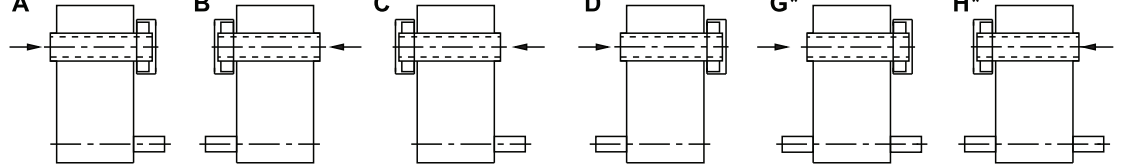
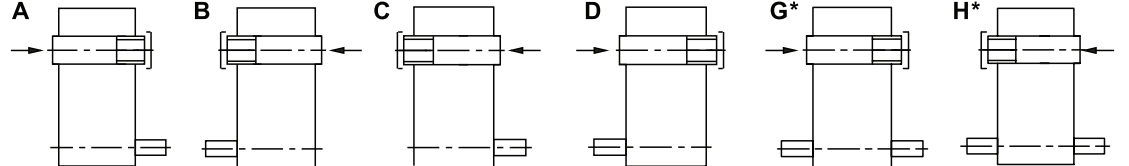
9.2 输出轴d上允许的附加径向力
(作用力不在输出轴轴伸中部)

9.2 Additional radial force allowed on output shaft

$F_{RZ2} = F_{R2} \times k$ 		F_{RZ2} 允许的外部 径向力 Permissible external radial force																			
		F_{R2} 允许的附加 径向力 根据9.1表 确定。 Permissible additional radia forceDetermined according to table 9.1																			
		k 作用力系数 根据下表确定 Applied force factor should bedetermined according to the following table																			
作用力系数k																				Applied force factor k	
Type	距离z/(mm)																			Distance z(mm)	
	-300	-250	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	250	300	350	400		
04							1.17	1.08	1	0.86	0.76	0.68	0.62	0.52	0.44						
05/06						1.22	1.14	1.06	1	0.88	0.79	0.72	0.66	0.62	0.52	0.44					
07/08						1.19	1.12	1.06	1	0.89	0.81	0.74	0.68	0.58	0.51	0.46	0.41				
09/10					1.22	1.15	1.10	1.05	1	0.90	0.82	0.76	0.70	0.61	0.54	0.48	0.44				
11/12					1.18	1.13	1.08	1.04	1	0.91	0.84	0.78	0.73	0.64	0.57	0.51	0.47				
13/14				1.24	1.15	1.11	1.07	1.03	1	0.92	0.86	0.80	0.75	0.67	0.60	0.55	0.50				
15/16				1.20	1.12	1.09	1.06	1.03	1	0.93	0.87	0.82	0.77	0.69	0.63	0.58	0.53				
17/18			1.25	1.17	1.11	1.08	1.05	1.03	1	0.94	0.88	0.84	0.79	0.72	0.66	0.60	0.56				
19/20			1.22	1.13	1.10	1.06	1.04	1.02	1	0.95	0.90	0.85	0.81	0.74	0.69	0.62	0.58				
21/22		1.27	1.21	1.12	1.09	1.05	1.04	1.02	1	0.96	0.92	0.86	0.83	0.75	0.71	0.64	0.60				
23/24		1.27	1.20	1.10	1.08	1.04	1.03	1.02	1	0.97	0.93	0.87	0.84	0.77	0.72	0.65	0.61				
25/26	1.29	1.22	1.18	1.08	1.07	1.03	1.03	1.02	1	0.98	0.96	0.87	0.83	0.76	0.70	0.64	0.61	0.55	0.51		

10 布置形式
10.1 H系列布置形式
10.1.1 轴布置

10 Shaft assemblies
10.1 H series shaft assemblies
10.1.1 Shaft assemblies

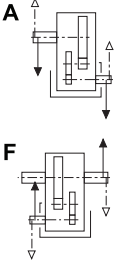
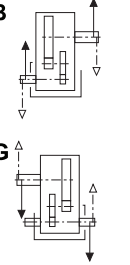
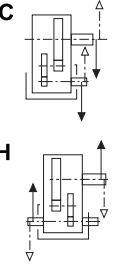
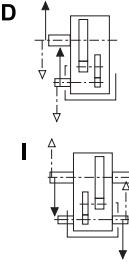
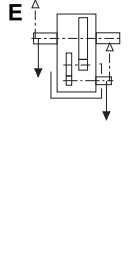
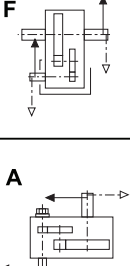
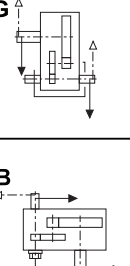
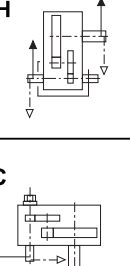
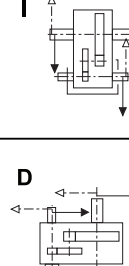
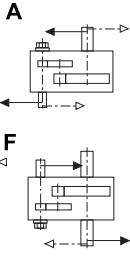
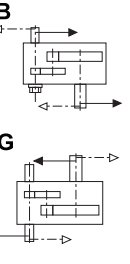
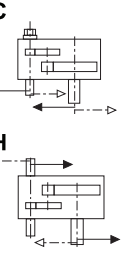
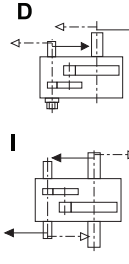
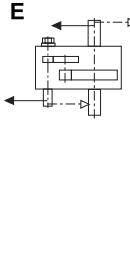
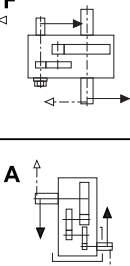
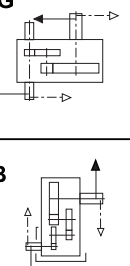
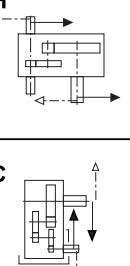
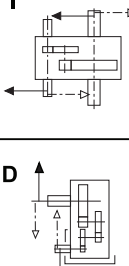
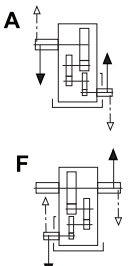
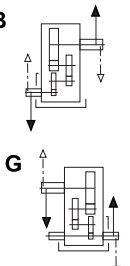
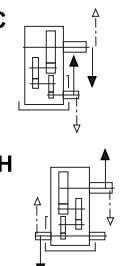
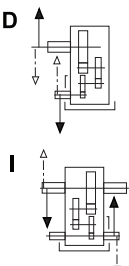
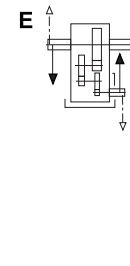
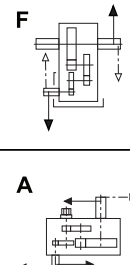
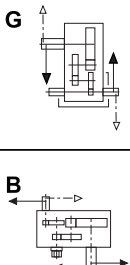
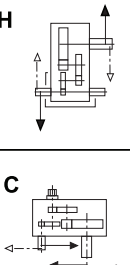
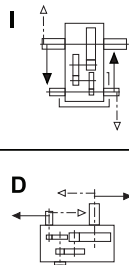
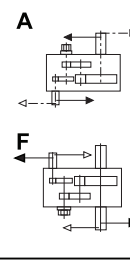
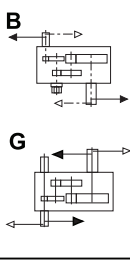
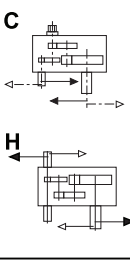
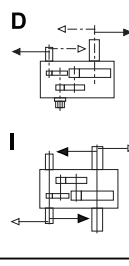
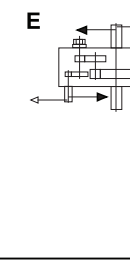
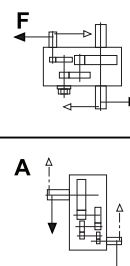
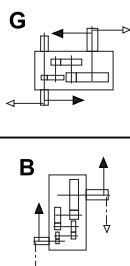
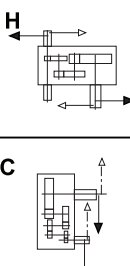
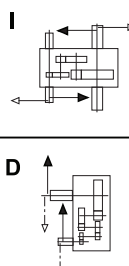
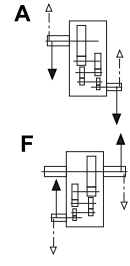
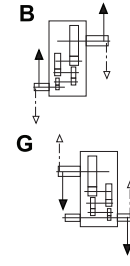
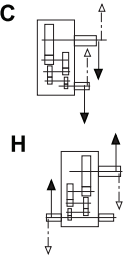
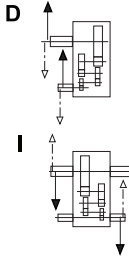
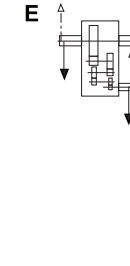
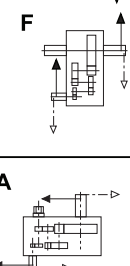
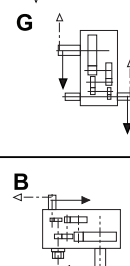
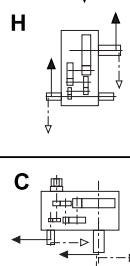
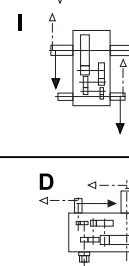
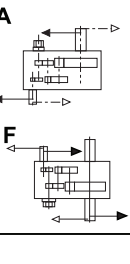
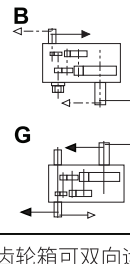
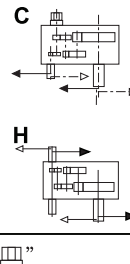
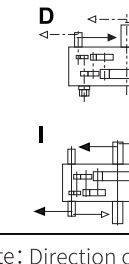
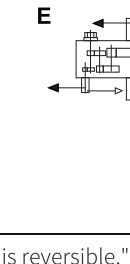
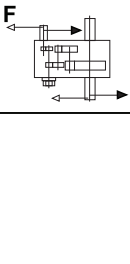
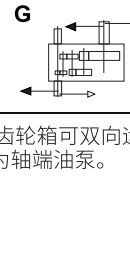
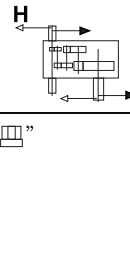
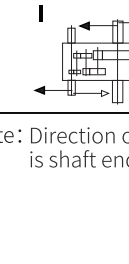
H...HS H...VS													
													
H...HH H...VH (04-18 Size)													
													
H...HD H...VD (04-18 Size)													
													
Size Type iN		04	05	06	07	08	09	10	11	12	13	14	
	H2	1. 8-4 6. 3-14	6. 3-14	2-4. 5 6. 3-14	6. 3-14	2. 24-5 6. 3-14	2. 24-5 6. 3-14	6. 3-14	2. 24-5 6. 3-14	3. 55-5. 6 6. 3-14	6. 3-14	3. 15-14	
	H3	/	16-63								16-63		
	H4	/	/	/	71-200			71-280				71-280	
Size Type iN	15	16	17	18	19	20	21	22	23	24	25	26	
	H2	6. 3-14	3. 15-14	5. 6-14	3. 55-16	8-12. 5	9-14	8-12. 5	9-14	8-12. 5	9-14	/	/
	H3	16-63	14-56	16-63	16-56	16-56	18-56	20-63	18-56	20-63	/	/	/
	H4	71-280	63-250	71-280	71-250	71-280	71-250	71-280	63-250	71-280	63-250	63-250	63-250

注：*当布置形式G/H/在右表iN中可
供货。

Note: *Shaft assemblies G/H/I is available
when nominal ratio is within the range
of value showed in right table.

10.1.2 旋转方向关系

10.1.2 Direction of rotation

H2..H					
					
H2..V					
					
H3..H					
					
H3..V					
					
H4..H					
					
H4..V					
					

注：齿轮箱可双向运转,图中“”
为轴端油泵。

Note: Direction of rotation is reversible,"  "
is shaft end oil pump.

10.2 B系列布置形式
10.2.1 轴布置

10.2 B series shaft assemblies
10.2.1 Shaft assemblies

B...HS B...VS	A	B	C	D
	E	F		
B...HH B...VH (04-18 Size)	A	B	C	D
	E	F		
B...HD B...VD (04-18 Size)	A	B	C	D
B...HK B...VK (04-18 Size)	A	B	C	D

10.2.2 旋转方向关系

10.2.2 Direction of rotation

B2..H	A	B	C	D	E	F
B2..V	A	B	C	D	E	F
B3..H	A	B	C	D	E	F
B3..V	A	B	C	D	E	F
B4..H	A	B	C	D	E	F
B4..V	A	B	C	D	E	F

注：1.齿轮箱可双向运转,图中“回”为轴端油泵。
2.B2空心输出以及B2实心输出B/D/E/F布置形式时,不带轴端油泵和逆止器,若需安装,敬请垂询。

Note: 1.Direction of rotation is reversible,"回" is shaft end oil pump.
2.Two stage reduction B series gear unit is not equipped with backstop and shaft end oil pump when solid and hollow output shaft assemblies is B/D/E/F, please consult us if shaft end oil pump and backstop are needed.

10.3 逆止器布置及轴旋转方向关系

10.3 Backstop assemblies and direction of shaft rotation direction

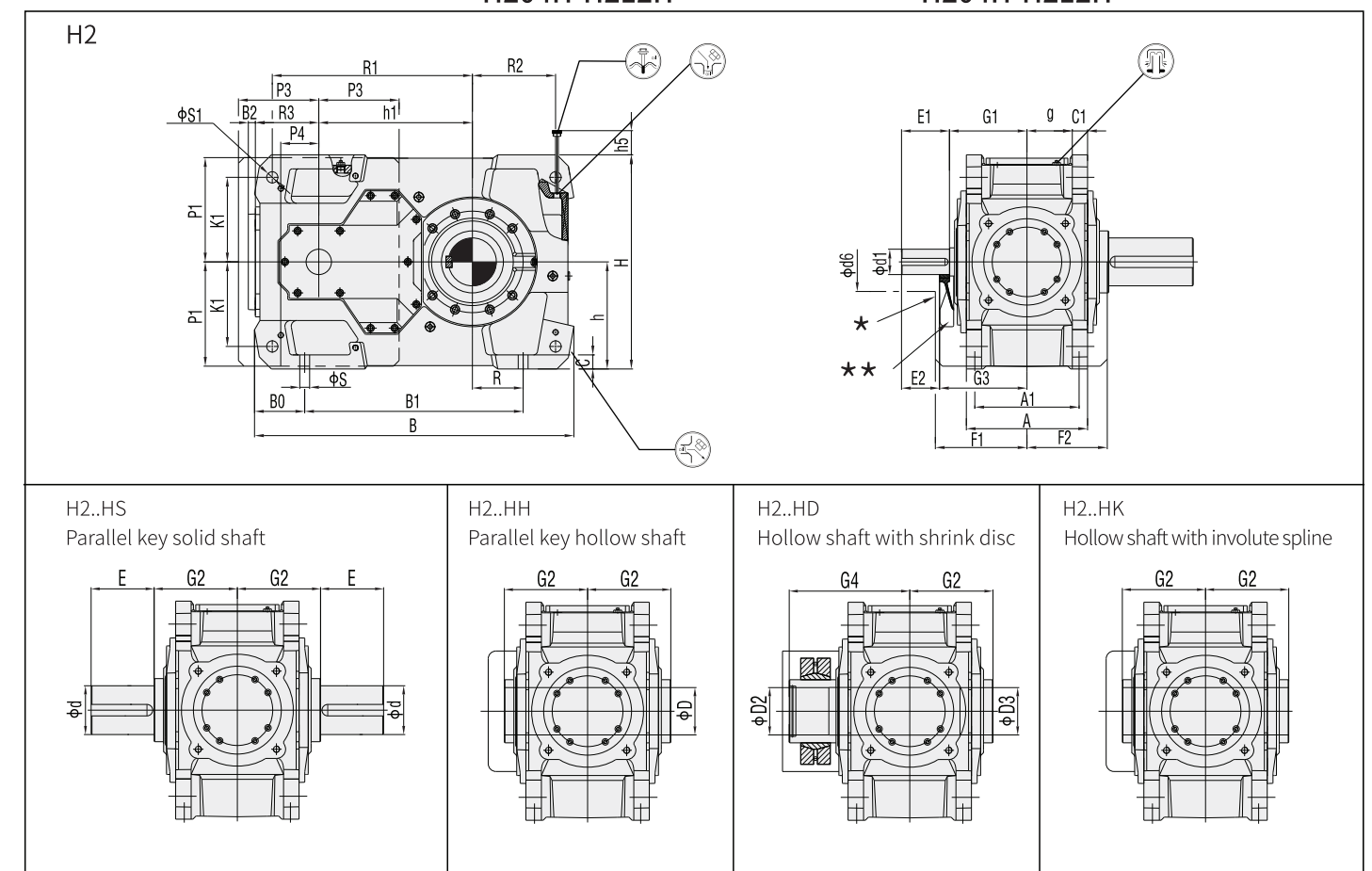
H3...S H3...H H3...D H3...K						
H4...S H4...H H4...D H4...K						
B2...S B2...H B2...D B2...K						
B3...S B3...H B3...D B3...K						
B4...S B4...H B4...D B4...K						

注：1.齿轮箱配逆止器只能单向运转，订货时需注明输出轴旋转方向。
2.H2系列不装逆止器。
3所有H/B系列轴端油泵与逆止器不共存若客户需同时安装，敬请垂询。

Note: 1.Gearbox with backstop only makes unidirectional rotation. Output shaft rotation direction has to be indicated when peing ordered.
2.H2 series doesn't have backstop.
3.Shaft end oil pump can not be installed with backstop for all HB series, please consult us if both shaftend oil pump and backstop needed to be installed.

11 外型尺寸 H204H-H212H

11 Outline dimension H204H-H212H



★ 风扇罩
★★ 冷却风扇 (附件代号UF21)

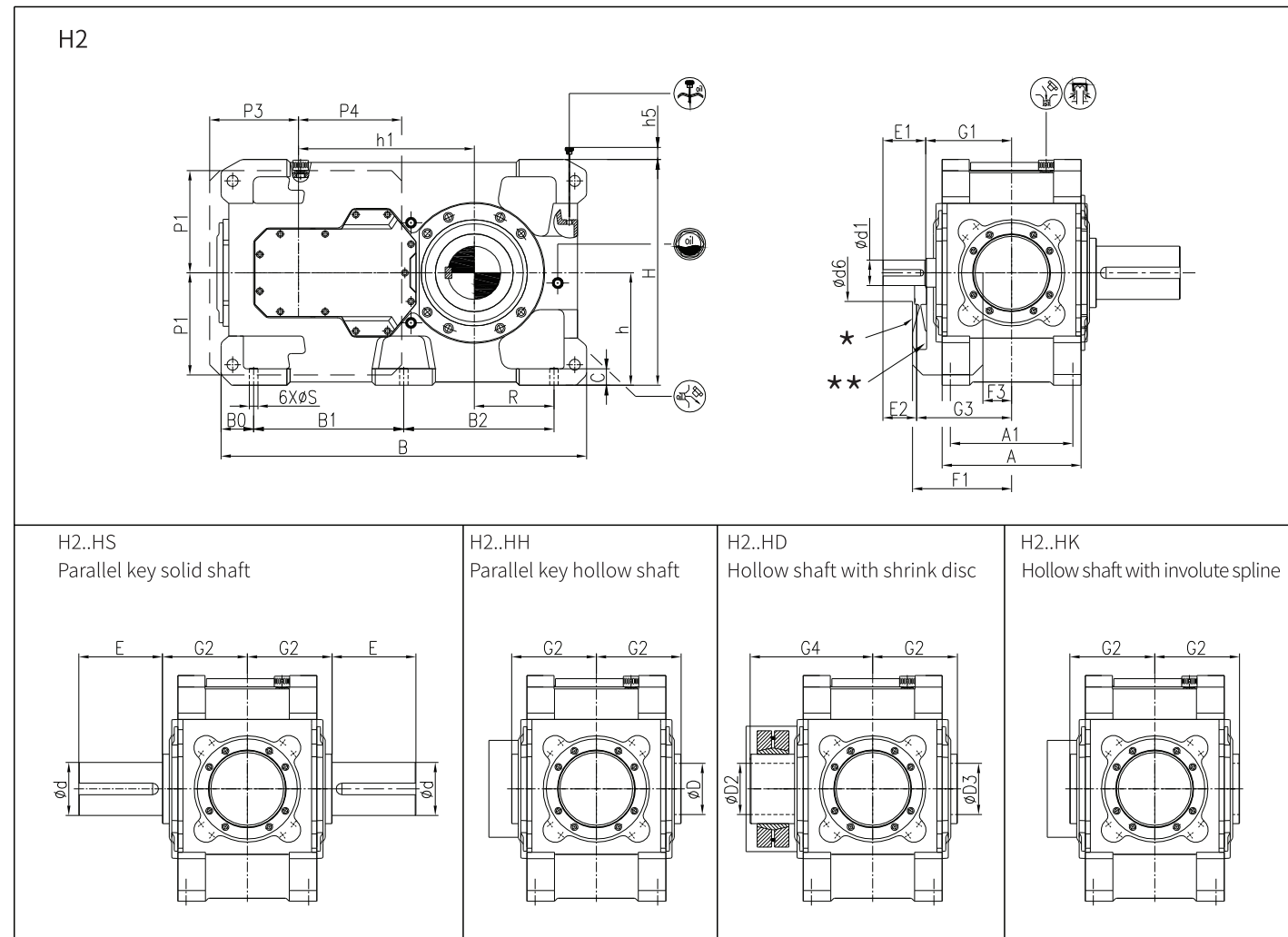
★ Fan guard
★★ Cooling fan (Accessory code:UF21)

Size	iN≤3.15(Size: 04) iN≤3.55(Size: 06) iN≤4 (Size: 08,09,11) iN≤5.6 (Size: 12)			3.55≤iN≤5.6(Size: 04) 4≤iN≤5.6(Size: 06) 4.5≤iN≤5.6(Size: 08,09,11)			6.3≤iN≤11.2			12.5≤iN≤22.4			A	A1	B	B0	B1	B2	C	C1	d	d6	D	D2	D3	E
	d1	E1	E2	d1	E1	E2	d1	E1	E2	d1	E1	E2														
04	45k6	110	90	32k6	80	60	45k6	110	90	32k6	80	60	215	180	586	112	355	16	28	30±1	80m6	140	80H7	85H7	85H7	170
05	/	/	/	/	/	/	50k6	110	90	38k6	80	60	255	220	667	113	430	16	28	30±1	100m6	150	95H7	100H7	100H7	210
06	50k6	110	90	38k6	80	60	50k6	110	90	38k6	80	60	255	220	743	113	510	16	28	30±1	110m6	150	105H7	110H7	110H7	210
07	/	/	/	/	/	/	60m6	140	110	50k6	110	80	300	260	816	131	545	20	35	36±1	120m6	200	115H7	120H7	120H7	210
08	60m6	140	110	50k6	110	80	60m6	140	110	50k6	110	80	300	260	920	131	650	20	35	36±1	130m6	200	125H7	130H7	130H7	250
09	75m6	140	110	60m6	140	110	75m6	140	110	60m6	140	110	370	320	957	156	635	20	40	45±1.5	140m6	210	135H7	140H7	140H7	250
10	/	/	/	/	/	/	75m6	140	110	60m6	140	110	370	320	1062	156	735	20	40	45±1.5	160m6	210	150H7	150H7	150H7	300
11	90m6	170	135	70m6	140	105	90m6	170	135	70m6	140	105	430	370	1132	178	775	25	50	54±1.5	170m6	220	165H7	165H7	165H7	300
12	90m6	170	135	/	/	/	90m6	170	135	70m6	140	105	430	370	1292	178	930	25	50	54±1.5	180m6	220	180H7	180H7	180H7	300

Size	F1	F2	G1	G2	G3	G4	g	H	h	h1	h5	K1	P1	P3	P4	R	R1	R2	R3	S	S1	Weight (kg)
04	205	160	170	140	190	205	77.5	405	200	270	15	150	195	155	40	85	345	160	110	19	24H9	195
05	230	180	195	165	215	240	97.5	460	230	315	15	180	225	165	55	100	405	175	130	19	24H9	310
06	230	180	195	165	215	240	97.5	490	230	350	0	180	225	165	55	145	440	220	130	19	24H9	385
07	255	210	210	195	240	280	114	560	280	385	0	215	270	220	70	130	500	215	160	24	28H9	519
08	255	210	210	195	240	285	114	580	280	430	0	215	270	220	70	190	545	275	160	24	28H9	624
09	285	245	240	235	270	330	140	640	320	450	10	245	310	240	95	155	585	260	185	28	36H9	828
10	285	245	240	235	270	350	140	670	320	500	0	245	310	240	95	205	635	310	185	28	36H9	1044
11	325	285	275	270	310	400	161	760	380	545	30	300	370	285	125	180	710	295	225	35	40H9	1371
12	325	285	275	270	310	405	161	783	380	615	5	300	370	285	125	265	780	380	225	35	40H9	1644

H213H-H218H

H213H-H218H



★ 风扇罩
★★ 冷却风扇(附件代号UF21)

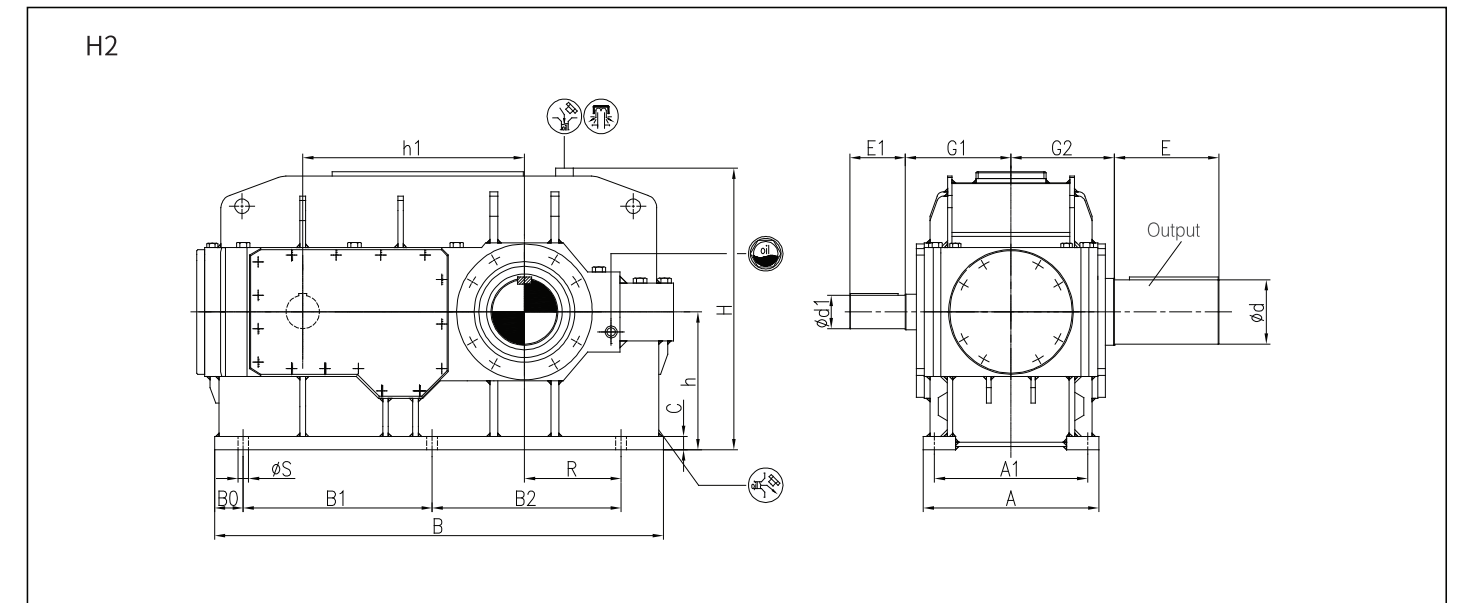
★ Fan guard
★★ Cooling fan(Accessory code:UF21)

Size	iN=3. 15~11. 2			iN=3. 15~12. 5			iN=12. 5~20			iN=14~20			A	A1	B	B0	B1	B2
	d1	E1	E2	d1	E1	E2	d1	E1	E2	d1	E1	E2						
13	100m6	210	175				85m6	170	135				545	475	1375	142	545	545
14	100m6	210	175				85m6	170	135				545	475	1505	137	545	685
15	120m6	210	175				100m6	210	175				620	535	1630	160	655	655
16	120m6	210	175				100m6	210	175				620	535	1720	160	655	745
17	125m6	210	165				110m6	210	165				680	600	1790	160	735	735
18				125m6	210	165				110m6	210	165	680	600	1910	160	735	855

Size	C	d	d6	D	D2	D3	E	F1	F3	G1	G2	G3	G4	H	h	h1	h5	P1	P3	P4	R	S	Weight(kg)
13	60	200m6	250	190H7	190H7	190H7	350	385	135	330	335	365	480	875	440	635	40	400	330	365	305	35	2075
14	60	220m6	250	210H7	210H7	210H7	350	385	135	330	335	365	480	940	440	705	40	400	330	365	375	35	2825
15	70	240m6	280	230H7	230H7	230H7	410	430	155	365	380	400	550	1000	500	762	40	450	370	440	365	42	3610
16	70	250m6	280	240H7	240H7	240H7	410	430	155	365	380	400	550	1035	500	808	40	450	370	440	410	42	3970
17	80	260n6	280	250H7	250H7	250H7	410	485	140	420	415	465	600	1105	550	860	60	500	435	505	390	42	4765
18	80	280n6	280	275H7	280H7	280H7	470	485	140	420	415	465	600	1110	550	920	60	500	435	505	450	42	5265

H219H~H226H

H219H~H226H

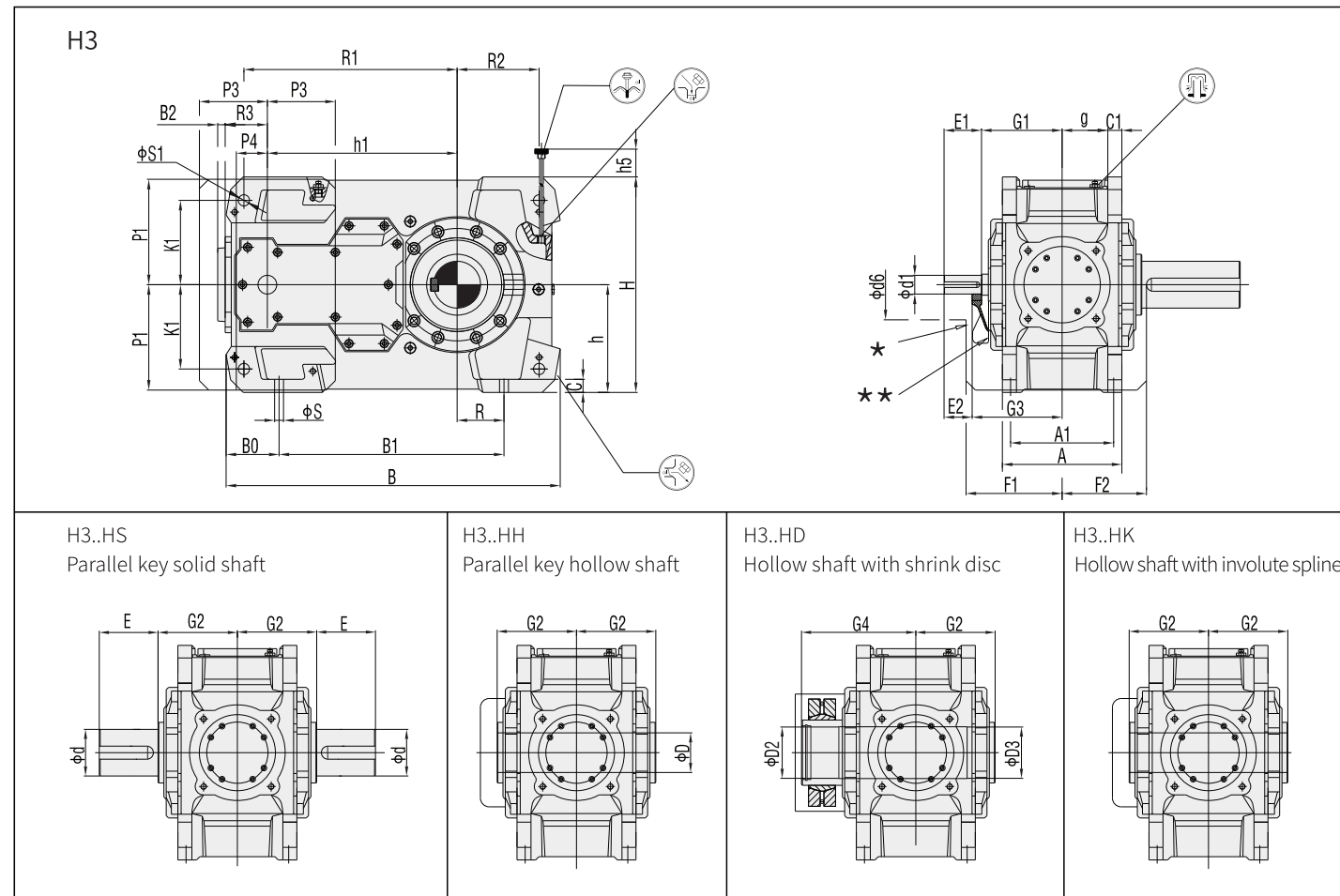


Size	iN=8~10		iN=9~11. 2		iN=10		iN=11. 2~18		iN=12. 5~20		A	A1	B
	d1	E1	d1	E1	d1	E1	d1	E1	d1	E1			
19	150m6	250					120m6	210			790	690	2010
20			150m6	250					120m6	210	790	690	2130
21	170m6	300					140m6	250			830	720	2150
22			170m6	300					140m6	250	830	720	2260
23	190m6	350					150m6	250			930	810	2400
24			190m6	350					150m6	250	930	810	2540
25					200m6	350	170m6	300			1050	910	2695
26					200m6	350	170m6	300			1050	910	2855

Size	B0	B1	B2	C	d	E	G1	G2	H	h	h1	R	S	Weight (kg)
19	120	850	850	60	290n6	470	475	465	1270	620	997	435	48	6600
20	120	850	970	60	310n6	470	475	465	1270	620	1057	495	48	7600
21	155	900	900	70	330n6	550	495	490	1425	700	1067	485	56	9000
22	155	900	1010	70	350n6	550	495	490	1425	700	1122	540	56	9800
23	155	1010	1010	80	370n6	550	560	540	1565	780	1185	550	56	12500
24	155	1010	1140	80	390n6	650	560	540	1565	780	1250	615	56	14000
25	230	1090	1090	90	410n6	650	600	605	1785	860	1325	590	66	16800
26	230	1090	1270	90	430n6	650	600	605	1785	860	1415	680	66	18600

H305H-H312H

H305H-H312H



★ 风扇罩
★★ 冷却风扇 (附件代号UF21)

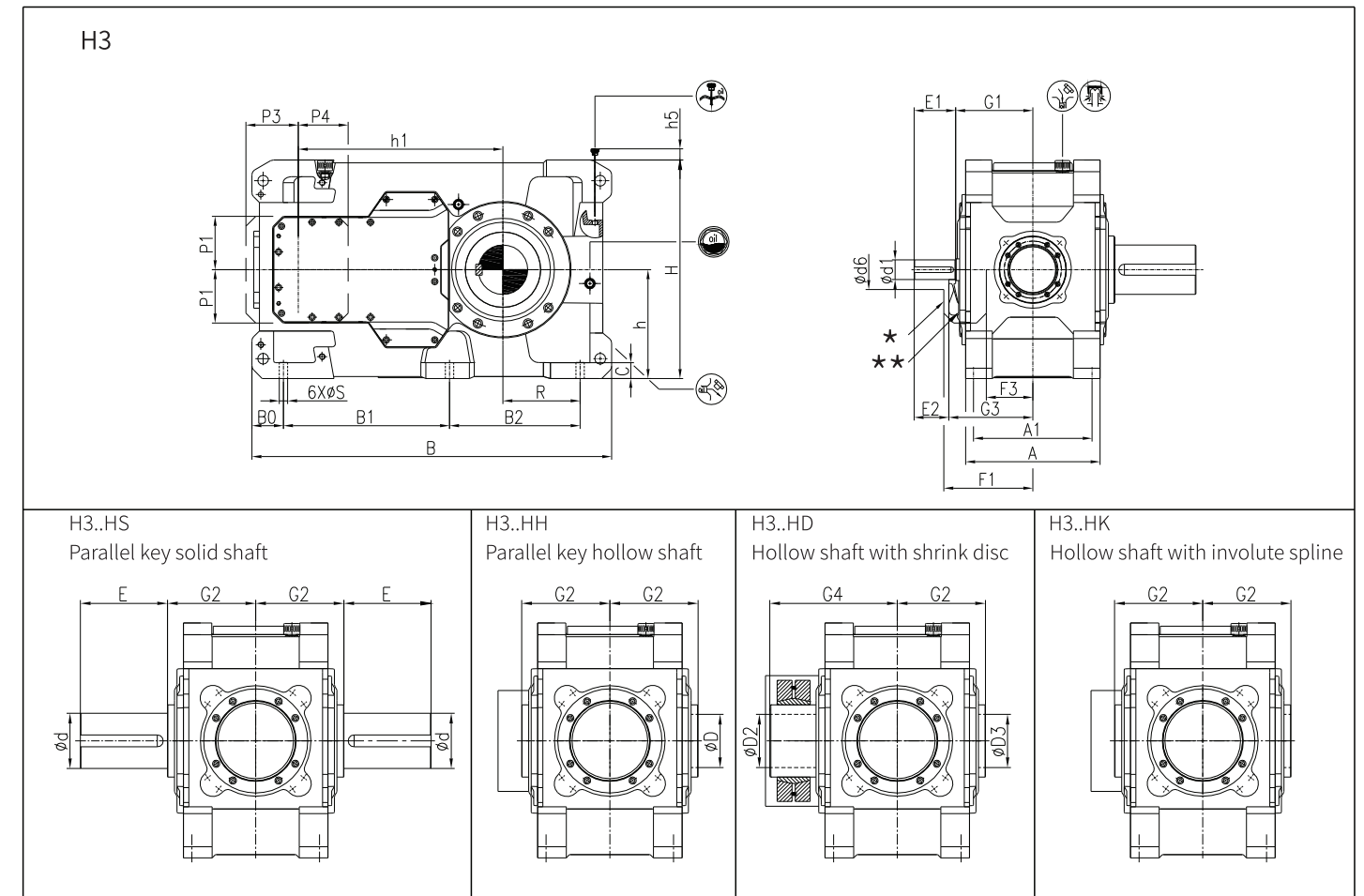
★ Fan guard
★★ Cooling fan (Accessory code:UF21)

Size	iN ≤ 45			iN ≤ 50			iN ≥ 50			iN ≥ 56			A	A1	B	B0	B1	B2	C	C1	d	d6	D	D2	D3
	d1	E1	E2	d1	E1	E2	d1	E1	E2	d1	E1	E2													
05	40k6	80	60				30k6	60	40				255	220	713	113	480	16	28	30 ± 1	100m6	150	95H7	100H7	100H7
06	40k6	80	60				30k6	60	40				255	220	793	113	560	16	28	30 ± 1	110m6	150	105H7	110H7	110H7
07				45k6	110	80				35k6	80	50	300	260	876	131	605	16	35	36 ± 1	120m6	200	115H7	120H7	120H7
08				45k6	110	80				35k6	80	50	300	260	981	131	710	16	35	36 ± 1	130m6	200	125H7	130H7	130H7
09				60m6	140	110				45k6	110	80	370	320	1033	156	710	20	40	45 ± 1.5	140m6	210	135H7	140H7	140H7
10				60m6	140	110				45k6	110	80	370	320	1131	156	810	20	40	45 ± 1.5	160m6	210	150H7	150H7	150H7
11				70m6	140	105				50k6	110	75	430	370	1227	178	870	20	50	54 ± 1.5	170m6	220	165H7	165H7	165H7
12				70m6	140	105				50k6	110	75	430	370	1382	178	1025	20	50	54 ± 1.5	180m6	220	180H7	180H7	180H7

Size	E	F1	F2	G1	G2	G3	G4	g	H	h	h1	h5	K1	P1	P3	P4	R	R1	R2	R3	S	S1	Weight (kg)
05	210	205	180	170	165	190	240	97.5	460	230	405	40	180	225	145	55	100	455	175	90	19	24H9	324
06	210	205	180	170	165	190	240	97.5	490	230	440	10	180	225	145	55	145	490	220	90	19	24H9	403
07	210	255	210	210	195	240	280	114	560	280	495	0	215	270	220	70	130	560	215	110	24	28H9	558
08	250	255	210	210	195	240	285	114	580	280	540	0	215	270	220	70	190	605	275	110	24	28H9	663
09	250	285	245	240	235	270	330	140	640	320	580	15	245	310	240	95	155	660	260	130	28	36H9	899
10	300	285	245	240	235	270	350	140	670	320	630	0	245	310	240	95	205	710	310	130	28	36H9	1113
11	300	325	285	275	270	310	400	161	760	380	705	30	300	370	285	125	180	805	295	160	35	40H9	1481
12	300	325	285	275	270	310	405	161	783	380	775	5	300	370	285	125	265	875	380	160	35	40H9	1742

H313H-H318H

H313H-H318H



★ 风扇罩
★★ 冷却风扇 (附件代号UF21)

★ Fan guard
★★ Cooling fan (Accessory code:UF21)

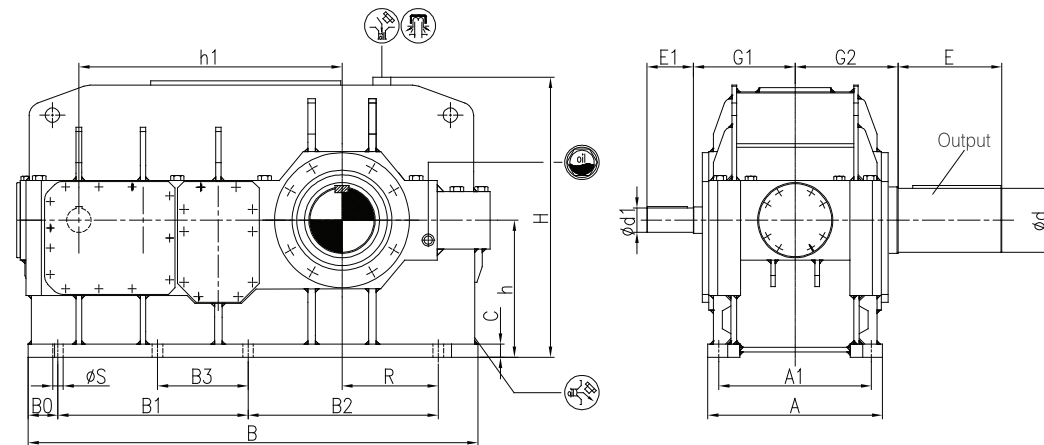
Size	iN=14-45			iN=16-50			iN=50-100			iN=56-100			iN=56-112			A	A1	B	B0	B1	B2	C
	d1	E1	E2	d1	E1	E2	d1	E1	E2	d1	E1	E2	d1	E1	E2							
13				85m6	170	130				60m6	140	100				545	475	1470	137	667.5	527.5	60
14				85m6	170	130				60m6	140	100				545	475	1610	137	667.5	667.5	60
15				100m6	210	165							75m6	140	95	620	535	1760	161	840	600	70
16				100m6	210	165							75m6	140	95	620	535	1850	160	840	690	70
17	100m6	210	165				75m6	140	95							680	600	1820	160	840	660	80
18				100m6	210	165							75m6	140	95	680	600	1940	160	840	780	80

Size	d	d6	D	D2	D3	E	F1	F3	G1	G2	G3	G4	H	h	h1	h5	P1	P3	P4	R	S	Weight (kg)
13	200m6	190	190H7	190H7	190H7	350	370	195	325	335	365	480	875	440	820	0	225	225	215	305	35	2355
14	220m6	190	210H7	210H7	210H7	350	370	195	325	335	365	480	940	440	890	40	225	225	215	375	35	2880
15	240m6	200	230H7	230H7	230H7	410	415	205	365	380	410	550	1000	500	987	60	270	265	252	365	42	3640
16	250m6	200	240H7	240H7	240H7	410	415	205	365	380	410	550	1035	500	1033	20	270	265	252	410	42	4195
17	260n6	200	250H7	250H7	250H7	410	450	235	400	415	445	600	1105	550	1035	60	270	265	252	390	42	4670
18	280n6	200	275H7	280H7	280H7	470	450	235	400	415	445	600	1110	550	1095	70	270	265	252	450	42	5165

H319H~H326H

H319H~H326H

H3



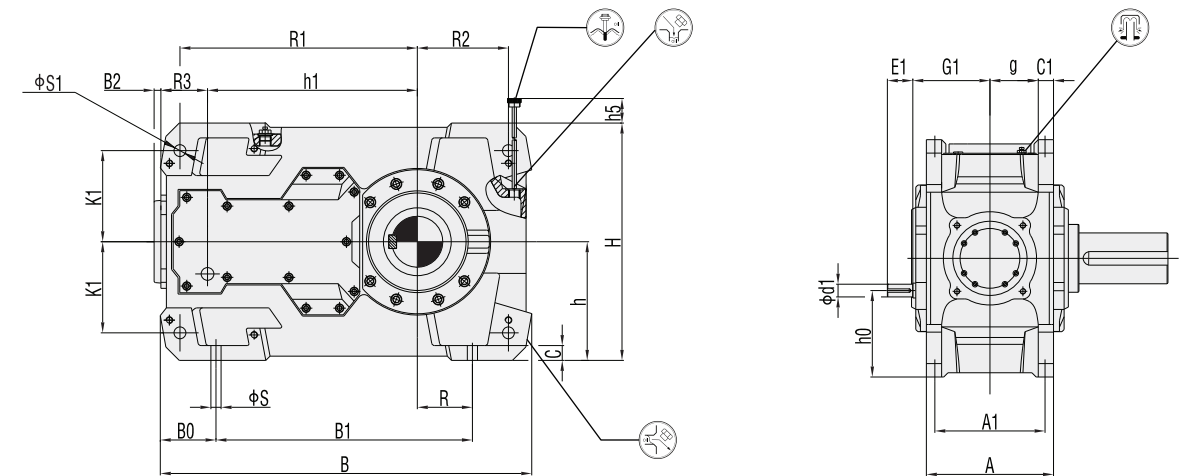
Size	iN=16~45		iN=16~50		iN=18~45		iN=18~50		iN=20~50		iN=50~71		iN=50~80		iN=56~80		iN=56~90	
	d1	E1	d1	E1	d1	E1	d1	E1	d1	E1	d1	E1	d1	E1	d1	E1	d1	E1
19	110m6	210											90m6	170				
20			110m6	210													90m6	170
21					130m6	250					110m6	210						
22									130m6	250					110m6	210		
23					130m6	250					110m6	210						
24									130m6	250					110m6	210		
25							150m6	250							130m6	250		
26							150m6	250							130m6	250		

Size	A	A1	B	B0	B1	B2	B3	C	d	E	G1	G2	H	h	h1	R	S	Weight (kg)
19	790	690	2035	135	860	860	/	60	290m6	470	440	465	1270	620	1190	435	48	6700
20	790	690	2165	135	860	980	/	60	310m6	470	440	465	1270	620	1250	495	48	8200
21	830	720	2375	155	1000	1000	/	70	330m6	550	470	490	1425	700	1387	485	56	9200
22	830	720	2465	155	1000	1110	/	70	350m6	550	470	490	1425	700	1442	540	56	10000
23	930	810	2560	180	1185	985	545	80	370m6	550	515	540	1565	780	1505	550	56	12400
24	930	810	2715	180	1185	1115	545	80	390m6	650	515	540	1565	780	1570	615	56	14500
25	1050	910	2890	175	1350	1080	640	90	410m6	650	580	605	1785	860	1695	590	66	17400
26	1050	910	3050	175	1350	1260	565	90	430m6	650	580	605	1785	860	1785	680	66	19000

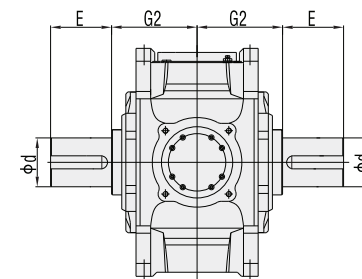
H407H~H412H

H407H~H412H

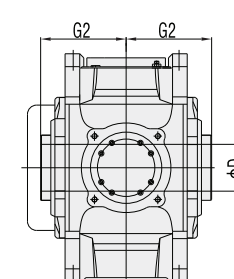
H4



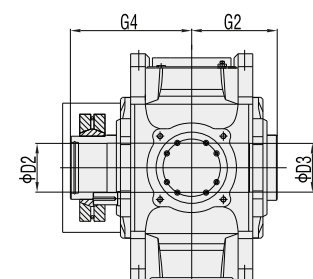
H4..HS
Parallel key solid shaft



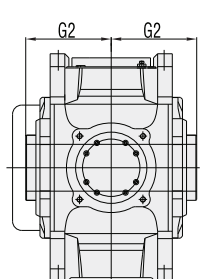
H4..HH
Parallel key hollow shaft



H4..HD
Hollow shaft with shrink disc



H4..HK
Hollow shaft with involute spline



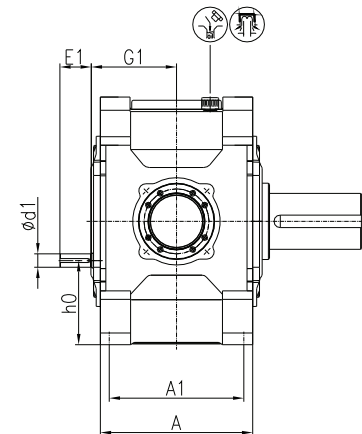
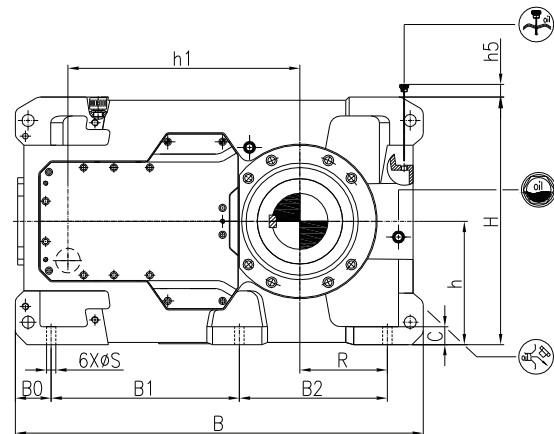
Size	iN ≤ 200		iN ≤ 224		iN ≥ 224		iN ≥ 250		A	A1	B	B0	B1	B2	C	C1	d	D	D2	D3
	d1	E1	d1	E1	d1	E1	d1	E1												
07	30k6	60			24k6	50			300	260	876	131	605	16	35	36 ± 1	120m6	115H7	120H7	120H7
08	30k6	60			24k6	50			300	260	981	131	710	16	35	36 ± 1	130m6	125H7	130H7	130H7
09	35k6	80			28k6	60			370	320	1033	156	710	20	40	45 ± 1.5	140m6	135H7	140H7	140H7
10	35k6	80			28k6	60			370	320	1131	156	810	20	40	45 ± 1.5	160m6	150H7	150H7	150H7
11			45k6	110			32k6	80	430	370	1227	178	870	20	50	54 ± 1.5	170m6	165H7	165H7	165H7
12			45k6	110			32k6	80	430	370	1382	178	1025	20	50	54 ± 1.5	180m6	180H7	180H7	180H7

Size	E	G1	G2	G4	g	H	h	h0	h1	h5	K1	R	R1	R2	R3	S	S1	Weight (kg)
07	210	180	195	280	114	560	280	204	495	0	215	130	560	215	110	24	28H9	559
08	250	180	195	285	114	580	280	204	540	0	215	190	605	275	110	24	28H9	664
09	250	215	235	330	140	640	320	226.5	580	15	245	155	660	260	130	28	36H9	901
10	300	215	235	350	140	670	320	226.5	630	0	245	205	710	310	130	28	36H9	1115
11	300	250	270	400	161	760	380	260	705	30	300	180	805	295	160	35	40H9	1487
12	300	250	270	405	161	783	380	260	775	5	300	265	875	380	160	35	40H9	1747

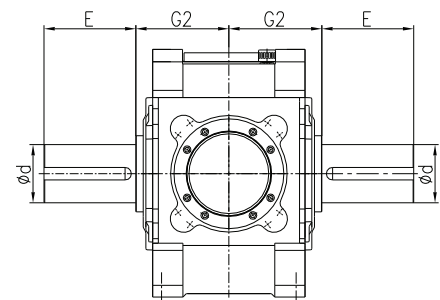
H413H-H418H

H413H-H418H

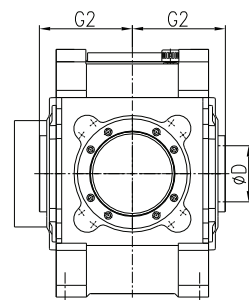
H4



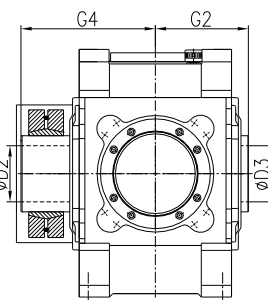
H4..HS
Parallel key solid shaft



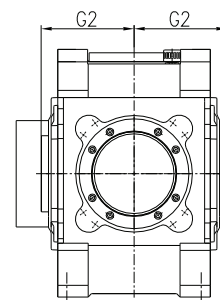
H4..HH
Parallel key hollow shaft



H4..HD
Hollow shaft with shrink disc



H4..HK
Hollow shaft with involute spline



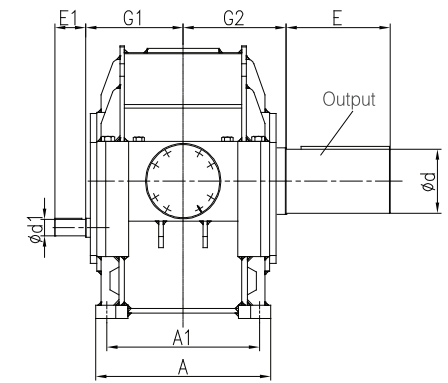
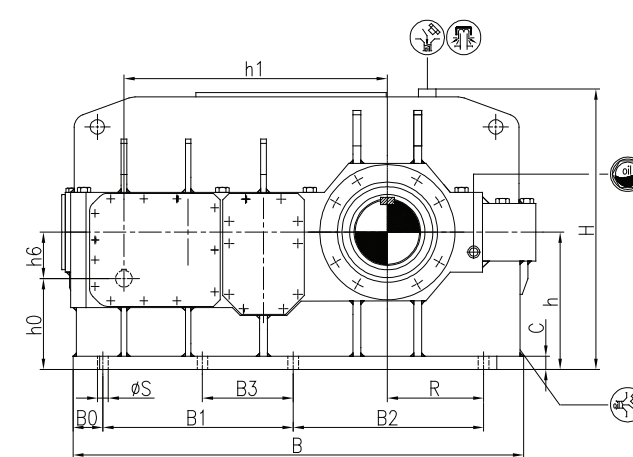
Size	iN=63~200		iN=71~224		iN=224~400		iN=250~450		A	A1	B	B0	B1	B2	C	d
	d1	E1	d1	E1	d1	E1	d1	E1								
13			50k6	110			38k6	80	545	475	1470	137	667.5	527.5	60	200m6
14			50k6	110			38k6	80	545	475	1610	137	667.5	667.5	60	220m6
15			60m6	140			50k6	110	620	535	1760	161	840	600	70	240m6
16			60m6	140			50k6	110	620	535	1850	160	840	690	70	250m6
17	60m6	140			50k6	110			680	600	1820	160	840	660	80	260n6
18			60m6	140			50k6	110	680	600	1940	160	840	780	80	280n6

Size	D	D2	D3	E	G1	G2	G4	H	h	h0	h1	h5	R	S	Weight (kg)
13	190H7	190H7	190H7	350	305	335	480	875	440	300	820	0	305	35	2450
14	210H7	210H7	210H7	350	305	335	480	940	440	300	890	40	375	35	2995
15	230H7	230H7	230H7	410	345	380	550	1000	500	325	987	60	365	42	3810
16	240H7	240H7	240H7	410	345	380	550	1035	500	325	1033	20	410	42	4290
17	250H7	250H7	250H7	410	380	415	600	1105	550	375	1035	60	390	42	4795
18	275H7	280H7	280H7	470	380	415	600	1110	550	375	1095	70	450	42	5325

H419H~H426H

H419H~H426H

H4

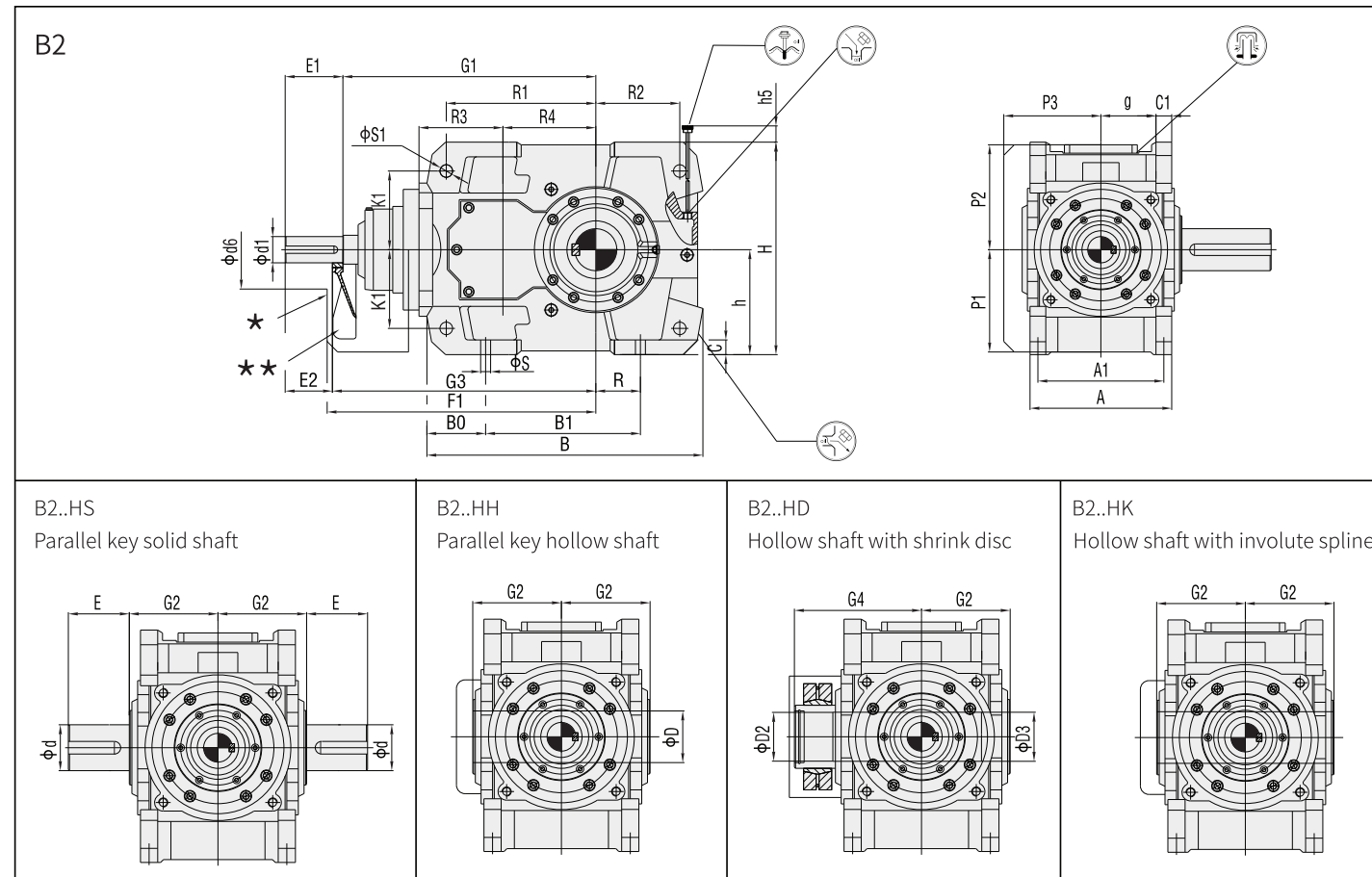


Size	iN=63~200		iN=71~200		iN=71~224		iN=224~355		iN=224~400		iN=250~450		A	A1	B	B0
	d1	E1	d1	E1	d1	E1	d1	E1	d1	E1	d1	E1				
19			75m6	140					60m6	140			790	690	2035	135
20					75m6	140					60m6	140	790	690	2165	135
21			90m6	170					70m6	140			830	720	2375	155
22					90m6	170					70m6	140	830	720	2465	155
23	90m6	170							70m6	140			930	810	2560	180
24					90m6	170					70m6	140	930	810	2715	180
25	100m6	210					85m6	170					1050	910	2890	175
26	100m6	210					85m6	170					1050	910	3050	175

Size	B1	B2	B3	C	d	E	G1	G2	H	h	h0	h1	h6	R	S	Weight (kg)
19	860	860	/	60	290n6	470	440	465	1270	620	410	1190	210	435	48	6800
20	860	980	/	60	310n6	470	440	465	1270	620	410	1250	210	495	48	8300
21	1000	1000	/	70	330n6	550	460	490	1425	700	444	1387	256	485	56	9300
22	1000	1110	/	70	350n6	550	460	490	1425	700	444	1442	256	540	56	10100
23	1185	985	545	80	370n6	550	505	540	1565	780	524	1505	256	550	56	12600
24	1185	1115	545	80	390n6	650	505	540	1565	780	524	1570	256	615	56	14600
25	1350	1080	640	90	410n6	650	565	605	1785	860	568	1695	292	590	66	17400
26	1350	1260	565	90	430n6	650	565	605	1785	860	568	1785	292	680	66	19000

B204H-B212H

B204H-B212H



★ 风扇罩
★★ 冷却风扇 (附件代号UF21)

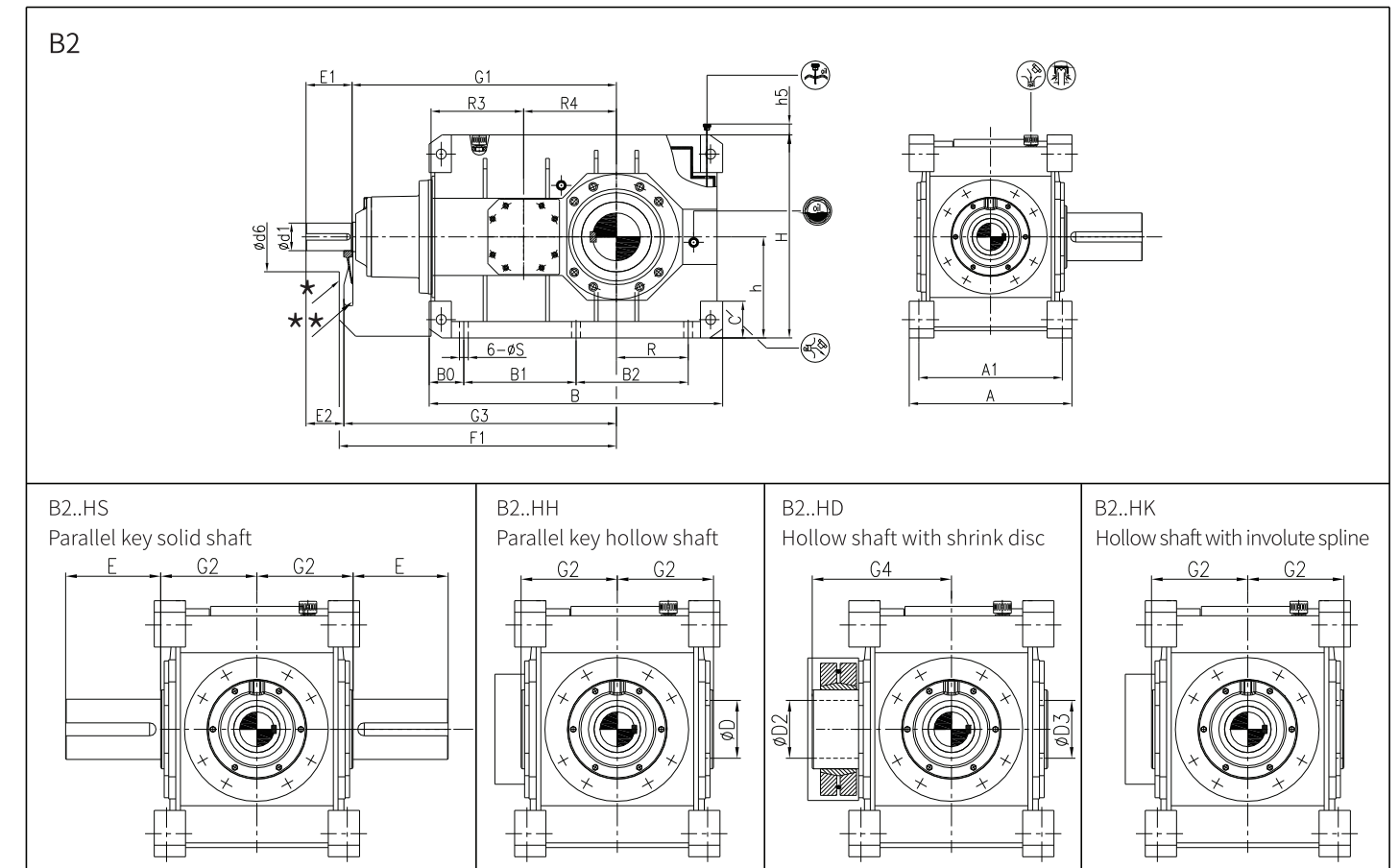
★ Fan guard
★★ Cooling fan (Accessory code:UF21)

Size	iN ≤ 14			A	A1	B	B0	B1	C	C1	d	d6	D	D2	D3	E	F1
	d1	E1	E2														
04	50k6	110	90	270	235	530	125	295	28	30 ± 1	80m6	150	80H7	85H7	85H7	170	517
05	60m6	140	110	320	285	595	130	355	28	30 ± 1	100m6	160	95H7	100H7	100H7	210	596
06	60m6	140	110	320	285	680	135	435	28	30 ± 1	110m6	160	105H7	110H7	110H7	210	635
07	75m6	140	110	380	340	725	145	450	35	36 ± 1	120m6	210	115H7	120H7	120H7	210	705
08	75m6	140	110	380	340	825	140	555	35	36 ± 1	130m6	210	125H7	130H7	130H7	250	745
09	85m6	170	135	440	390	860	175	530	40	48 ± 1.5	140m6	220	135H7	140H7	140H7	250	805
10	85m6	170	135	440	390	970	185	630	40	48 ± 1.5	160m6	220	150H7	150H7	150H7	300	865
11	95m6	170	135	530	470	1030	205	645	50	54 ± 1.5	170m6	250	165H7	165H7	165H7	300	1005
12	95m6	170	135	530	470	1165	185	800	50	54 ± 1.5	180m6	250	180H7	180H7	180H7	300	1055

Size	G1	G2	G3	G4	g	H	h	h5	K1	P1	P2	P3	R	R1	R2	R3	R4	S	S1H9	Weight (kg)
04	482	140	502	205	105	400	200	15	150	195	200	185	85	285	160	160	177	19	24H9	217
05	551	165	581	240	130	460	230	30	180	220	235	215	100	330	175	185	201	19	24H9	349
06	590	165	620	240	130	490	230	0	180	220	235	215	145	365	220	185	240	19	24H9	437
07	660	195	690	280	154	560	280	35	215	270	285	250	130	405	215	225	240	24	28H9	599
08	700	195	730	285	154	580	280	25	215	270	285	250	190	450	275	225	280	24	28H9	723
09	755	235	790	330	172	640	320	10	245	310	325	250	155	480	260	265	280	28	36H9	921
10	815	235	850	350	172	670	320	0	245	310	325	250	205	530	310	265	340	28	36H9	1158
11	945	270	980	400	211	760	380	55	300	370	385	330	180	580	295	320	340	35	40H9	1516
12	995	270	1030	405	211	783	380	30	300	370	385	330	265	650	380	320	390	35	40H9	1833

B213H-B218H

B213H-B218H



★ 风扇罩
★★ 冷却风扇 (附件代号UF21)

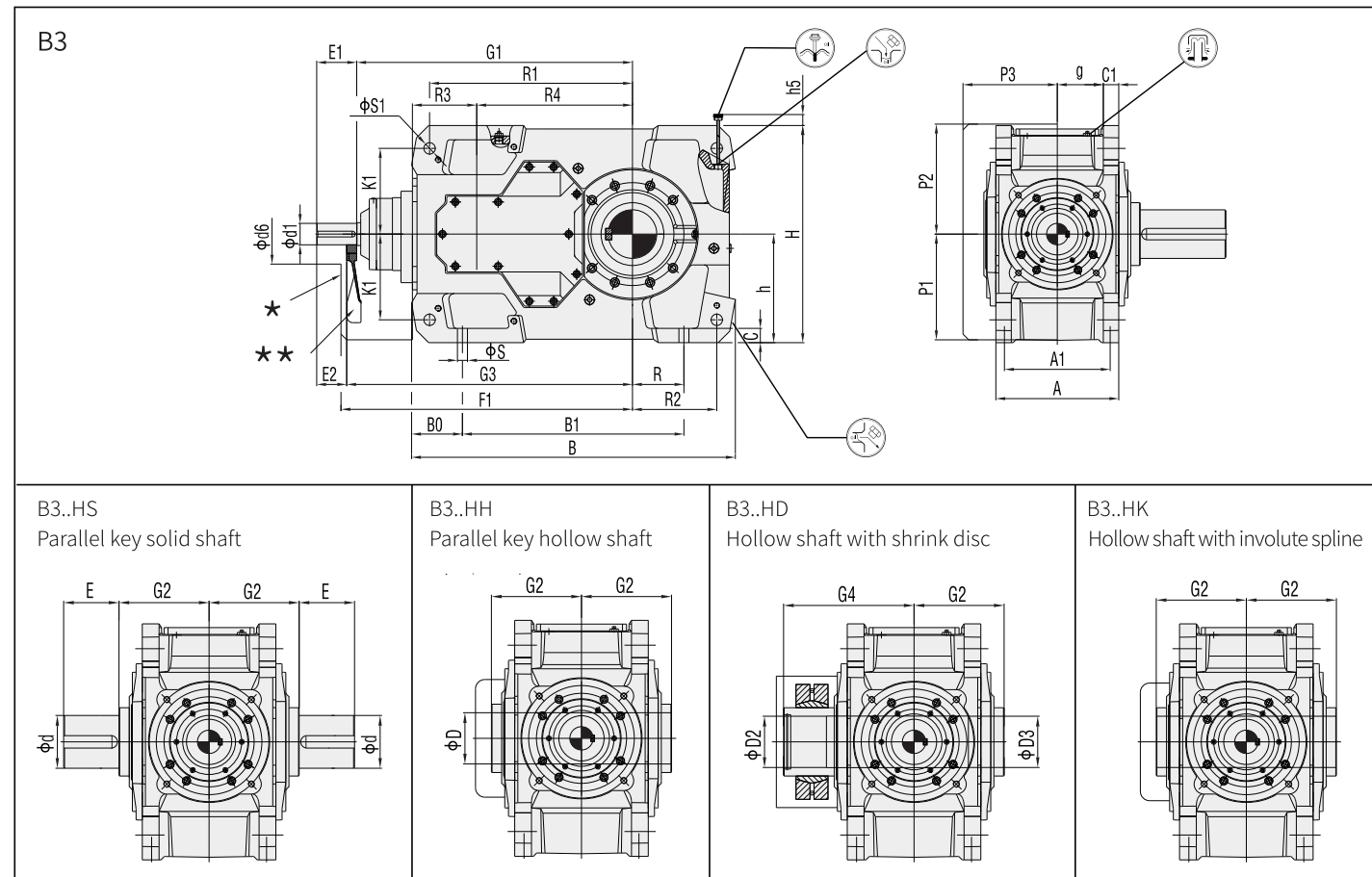
★ Fan guard
★★ Cooling fan (Accessory code:UF21)

Size	iN=6.3-14			iN=7.1-14			A	A1	B	B0	B1	B2	C	d	d6	D	D2	D3
	d1	E1	E2	d1	E1	E2												
13	115m6	210	175				655	580	1205	137	465	465	60	200m6	245	190H7	190H7	190H7
14	115m6	210	175				655	580	1345	137	465	605	60	220m6	245	210H7	210H7	210H7
15	140m6	250	200				765	670	1430	160	555	555	70	240m6	280	230H7	230H7	230H7
16	140m6	250	200				765	670	1520	160	555	645	70	250m6	280	240H7	240H7	240H7
17	150m6	250	200				885	780	1595	188	610	610	80	260n6	380	250H7	250H7	250H7
18				150m6	250	200	885	780	1715	188	610	730	80	280n6	380	275H7	280H7	280H7

Size	E	F1	G1	G2	G3	G4	H	h	h5	P1	P2	P3	R	R3	R4	S	Weight (kg)
13	350	1175	1092	335	1127	480	870	440	60	430	450	375	305	370	392	35	2530
14	350	1245	1170	335	1205	480	885	440	20	430	450	375	375	370	470	35	2945
15	410	1385	1305	380	1355	550	1000	500	20	490	495	435	365	442	470	42	4230
16	410	1430	1330	380	1380	550	1035	500	60	490	495	435	410	442	495	42	4750
17	410	1520	1450	415	1500	600	1105	550	40	540	555	505	390	490	505	48	5990
18	470	1580	1515	415	1565	600	1110	550	100	540	555	505	450	490	570	48	6555

B304H-B312H

B304H-B312H



★ 风扇罩
★★ 冷却风扇 (附件代号UF21)

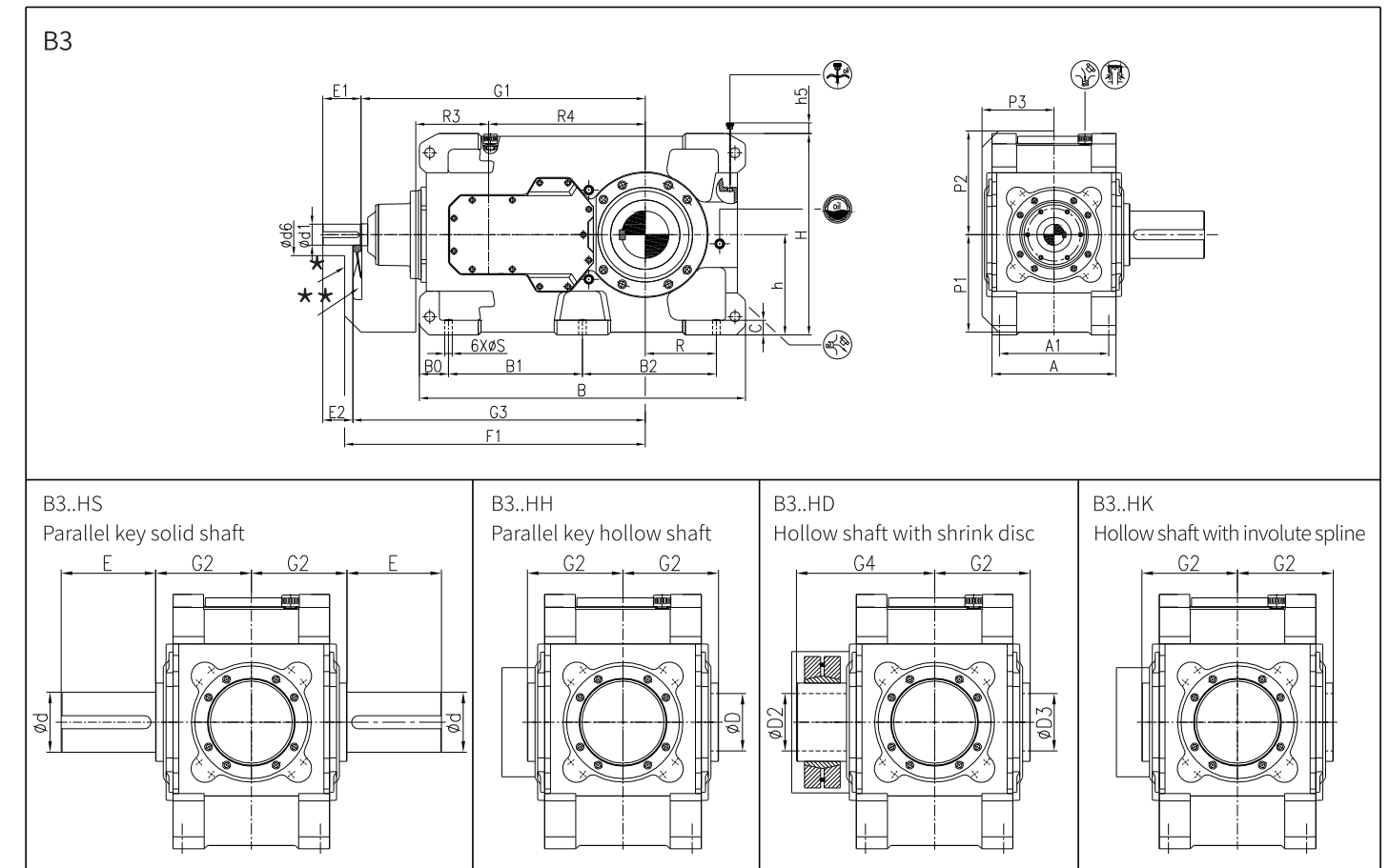
★ Fan guard
★★ Cooling fan(Accessory code:UF21)

Size	iN ≤ 63			iN ≥ 71			A	A1	B	B0	B1	C	C1	d	d6	E	F1	D	D2	D3
	d1	E1	E2	d1	E1	E2														
04	35k6	80	60	30k6	60	40	215	180	586	112	355	28	30 ± 1	80m6	150	170	530	80H7	85H7	85H7
05	45k6	110	80	35k6	80	50	255	220	667	113	430	28	30 ± 1	100m6	160	210	620	95H7	100H7	100H7
06	45k6	110	80	35k6	80	50	255	220	743	113	510	28	30 ± 1	110m6	160	210	655	105H7	110H7	110H7
07	50k6	110	90	40k6	80	60	300	260	816	131	545	35	36 ± 1	120m6	210	210	720	115H7	120H7	120H7
08	50k6	110	90	40k6	80	60	300	260	920	131	650	35	36 ± 1	130m6	210	250	765	125H7	130H7	130H7
09	60m6	140	110	50k6	110	80	370	320	957	156	635	40	45±1.5	140m6	220	250	845	135H7	140H7	140H7
10	60m6	140	110	50k6	110	80	370	320	1062	156	735	40	45±1.5	160m6	220	300	895	150H7	150H7	150H7
11	75m6	140	115	60m6	140	115	430	370	1132	178	775	50	54±1.5	170m6	210	300	1010	165H7	165H7	165H7
12	75m6	140	115	60m6	140	115	430	370	1292	178	930	50	54±1.5	180m6	210	300	1080	180H7	180H7	180H7

Size	G1	G2	G3	G4	g	H	h	h5	K1	P1	P2	P3	R	R1	R2	R3	R4	S	S1	Weight (kg)
04	500	140	520	205	77.5	400	200	15	150	195	200	185	85	345	160	110	270	19	24H9	210
05	575	165	605	240	97.5	460	230	15	180	220	235	215	100	405	175	130	315	19	24H9	337
06	610	165	640	240	97.5	490	230	0	180	220	235	215	145	440	220	130	350	19	24H9	412
07	690	195	710	280	114	560	280	0	215	270	285	250	130	500	215	160	385	24	28H9	555
08	735	195	755	285	114	580	280	0	215	270	285	250	190	545	275	160	430	24	28H9	660
09	800	235	830	330	140	640	320	10	245	310	325	250	155	585	260	185	450	28	36H9	891
10	850	235	880	350	140	670	320	0	245	310	325	250	205	635	310	185	500	28	36H9	1106
11	965	270	990	400	161	760	380	30	300	370	385	330	180	710	295	225	545	35	40H9	1484
12	1035	270	1060	405	161	783	380	5	300	370	385	330	265	780	380	225	615	35	40H9	1757

B313H-B318H

B313H-B318H



★ 风扇罩
★★ 冷却风扇 (附件代号UF21)

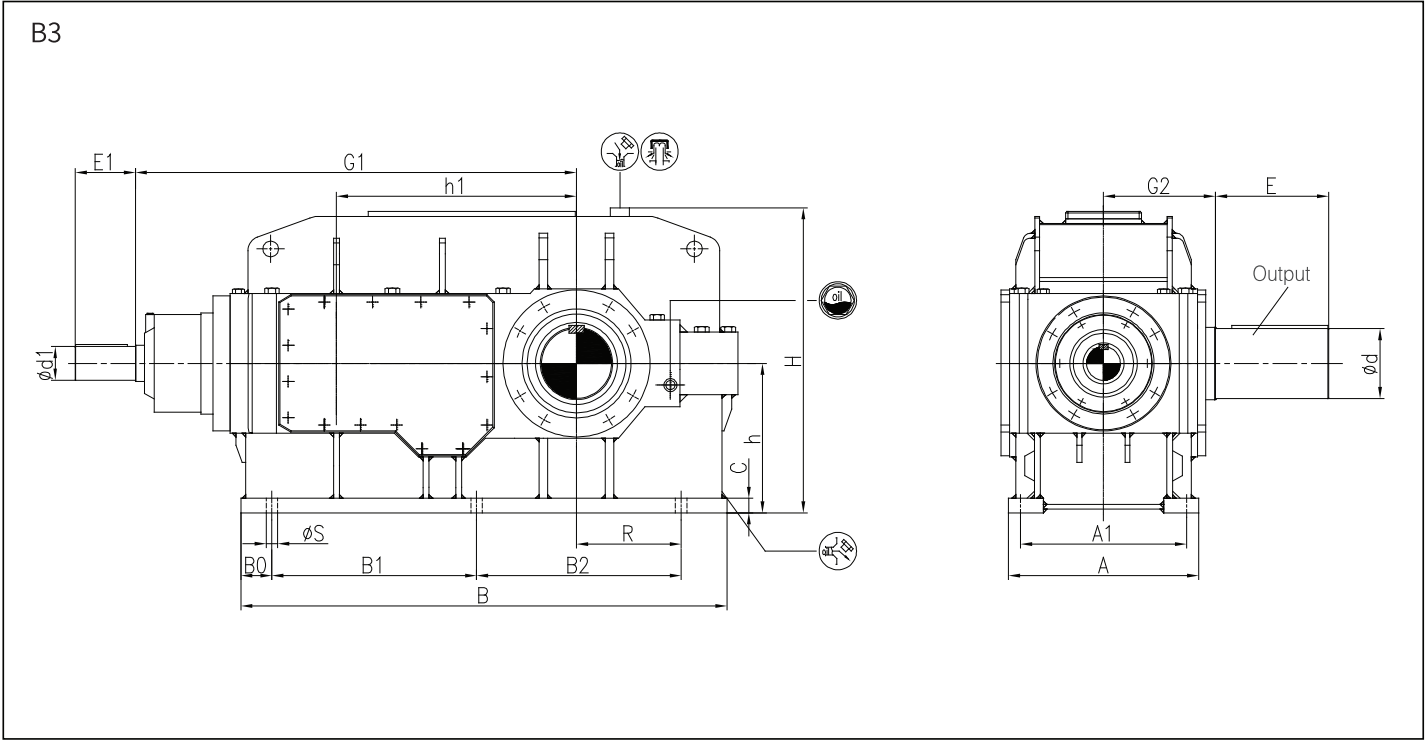
★ Fan guard
★★ Cooling fan(Accessory code:UF21)

Size	iN=16-56			iN=16-63			iN=63-80			iN=71-90			A	A1	B	B0	B1	B2	C	d	d6
	d1	E1	E2	d1	E1	E2	d1	E1	E2	d1	E1	E2									
13				85m6	170	135				70m6	140	105	545	475	1375	142	545	545	60	200m6	210
14				85m6	170	135				70m6	140	105	545	475	1505	137	545	685	60	220m6	210
15				95m6	170	135				75m6	140	105	620	535	1630	160	655	655	70	240m6	210
16				95m6	170	135				75m6	140	105	620	535	1720	160	655	745	70	250m6	210
17	115m6	210	175				90m6	170	135				680	600	1790	160	735	735	80	260n6	230
18				115m6	210	175				90m6	170	135	680	600	1910	160	735	855	80	280n6	230

Size	D	D2	D3	E	F1	G1	G2	G3	G4	H	h	h5	P1	P2	P3	R	R3	R4	S	Weight (kg)
13	190H7	190H7	190H7	350	1165	1110	335	1145	480	875	440	40	425	435	325	305	265	635	35	2470
14	210H7	210H7	210H7	350	1235	1180	335	1215	480	940	440	40	425	435	325	375	265	705	35	3025
15	230H7	230H7	230H7	410	1420	1367	380	1402	550	1000	500	40	485	520	365	365	320	762	42	3925
16	240H7	240H7	240H7	410	1470	1413	380	1448	550	1035	500	40	485	520	365	410	320	808	42	4295
17	250H7	250H7	250H7	410	1620	1560	415	1595	600	1105	550	60	535	570	395	390	370	860	42	5110
18	275H7	280H7	280H7	470	1680	1620	415	1655	600	1110	550	60	535	570	395	450	370	920	42	5645

B319H~B326H

B319H~B326H

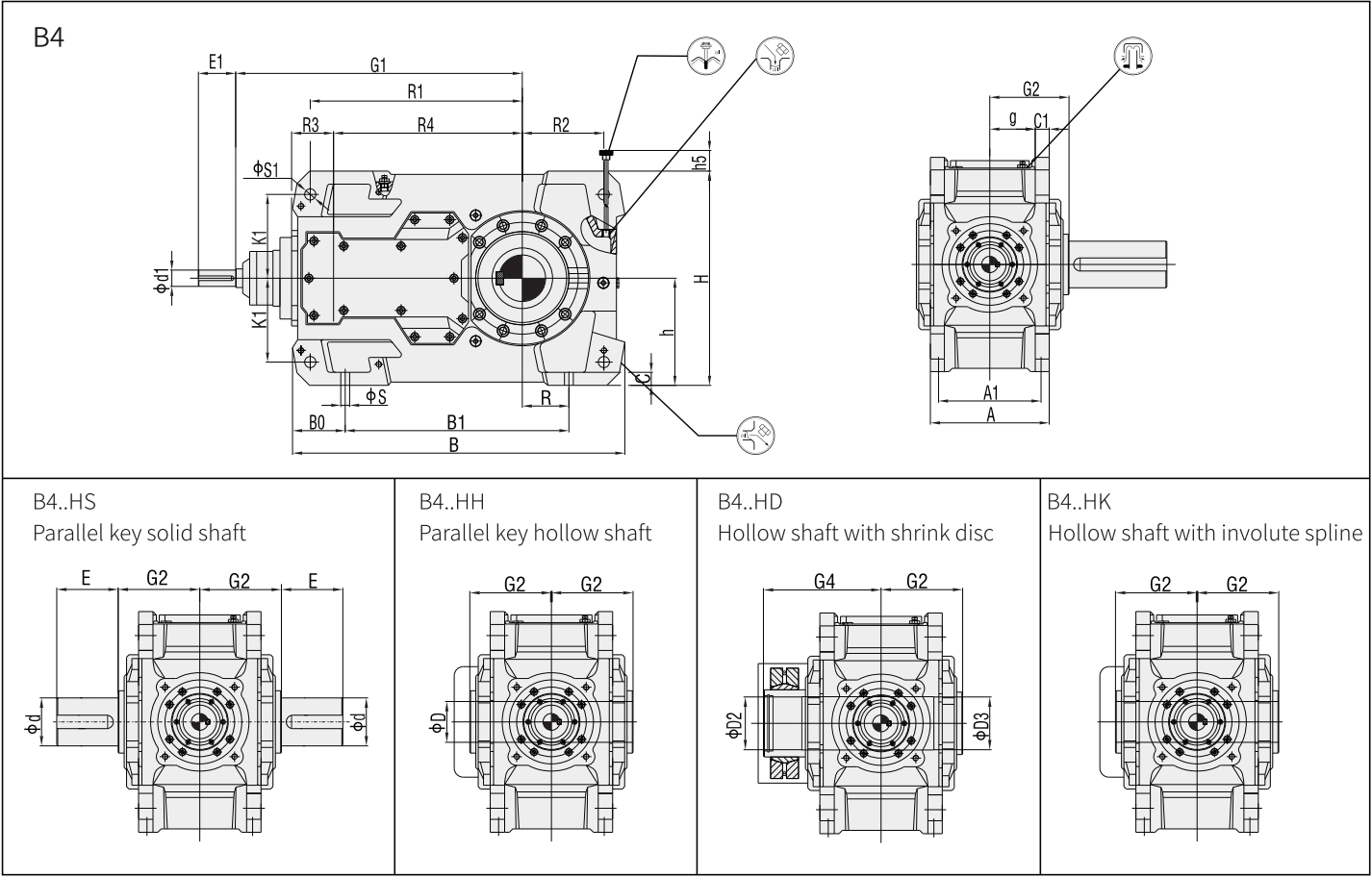


Size	iN=16~56		iN=16~63		iN=18~56		iN=20~56		iN=20~63		iN=22. 4~56		iN=22. 4~63		iN=63~80		iN=63~90		iN=71~90	
	d1	E1	d1	E1	d1	E1	d1	E1	d1	E1	d1	E1	d1	E1	d1	E1	d1	E1	d1	E1
19	140m6	250															110m6	210		
20			140m6	250															110m6	210
21					140m6	250											110m6	210		
22									140m6	250									110m6	210
23							150m6	250							115m6	210				
24													150m6	250					115m6	210
25											170m6	300			130m6	250				
26											170m6	300			130m6	250				

Size	A	A1	B	B0	B1	B2	C	d	E	G1	G2	H	h	h1	R	S	Weight (kg)
19	790	690	2010	120	850	850	60	290m6	470	1832	465	1270	620	997	435	48	7000
20	790	690	2130	120	850	970	60	310m6	470	1892	465	1270	620	1057	495	48	8300
21	830	720	2150	155	900	900	70	330m6	550	1902	490	1425	700	1067	485	56	9400
22	830	720	2260	155	900	1010	70	350m6	550	1957	490	1425	700	1122	540	56	10000
23	930	810	2400	155	1010	1010	80	370m6	550	2130	540	1565	780	1185	550	56	12500
24	930	810	2540	155	1010	1140	80	390m6	650	2195	540	1565	780	1250	615	56	14500
25	1050	910	2695	230	1090	1090	90	410m6	650	2375	605	1785	860	1325	590	66	17300
26	1050	910	2855	230	1090	1270	90	430m6	650	2465	605	1785	860	1415	680	66	19000

B405H~B412H

B405H~B412H

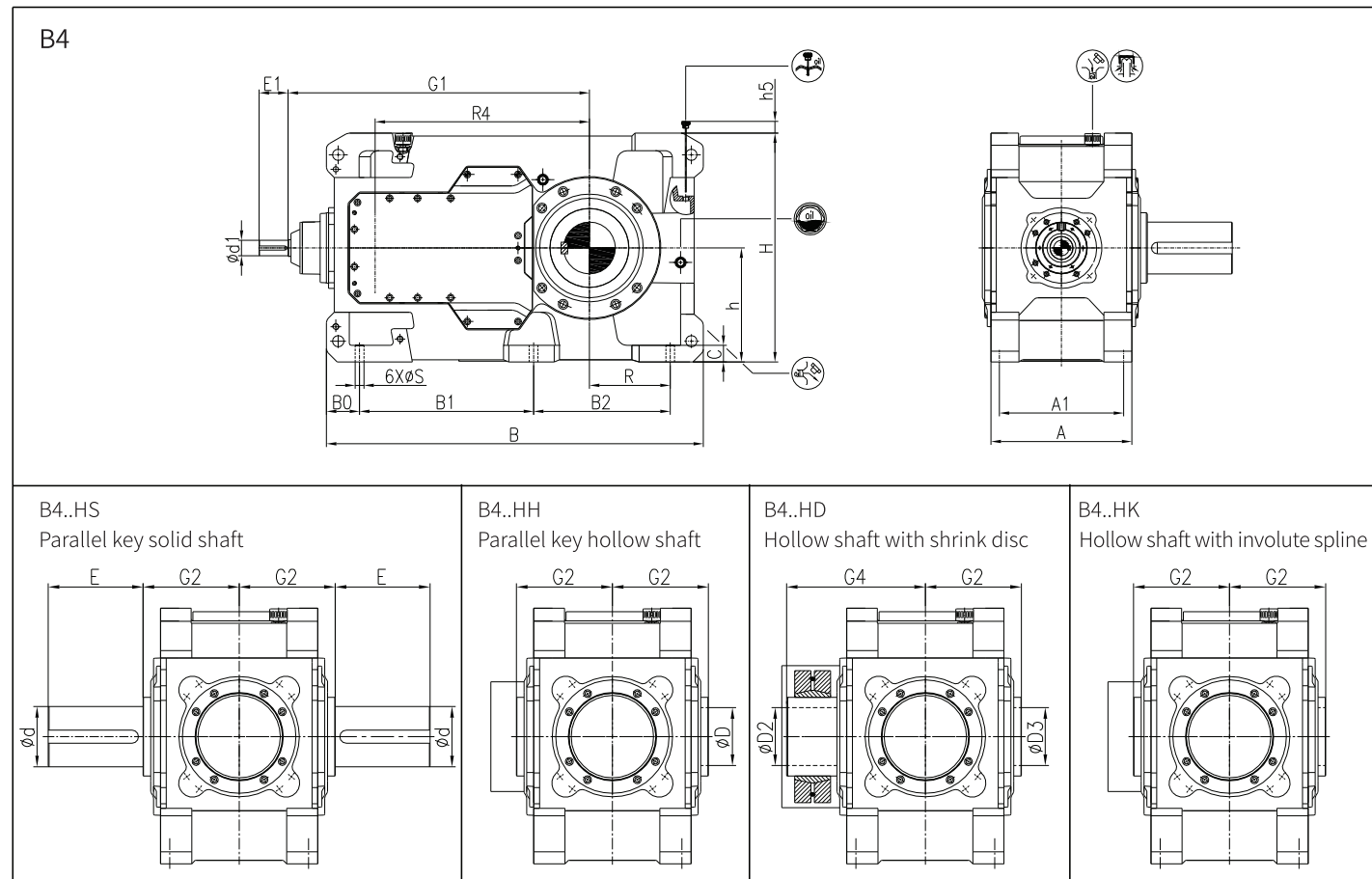


Size	iN ≤ 250		iN ≤ 280		iN ≥ 280		iN ≥ 315		A	A1	B	B0	B1	C	C1	d	D
	d1	E1	d1	E1	d1	E1	d1	E1									
05			35k6	80			25k6	50	255	220	713	113	480	28	30 ± 1	100m6	95H7
06			35k6	80			25k6	50	255	220	793	113	560	28	30 ± 1	110m6	105H7
07			35k6	80			30k6	60	300	260	876	131	605	35	36 ± 1	120m6	115H7
08			35k6	80			30k6	60	300	260	981	131	710	35	36 ± 1	130m6	125H7
09	45k6	110			35k6	80			370	320	1033	156	710	40	45 ± 1.5	140m6	135H7
10	45k6	110			35k6	80			370	320	1131	156	810	40	45 ± 1.5	160m6	150H7
11			50k6	110			40k6	80	430	370	1227	178	870	50	54 ± 1.5	170m6	165H7
12			50k6	110			40k6	80	430	370	1382	178	1025	50	54 ± 1.5	180m6	180H7

Size	D2	D3	E	G1	G2	G4	g	H	h	h5	K1	R	R1	R2	R3	R4	S	S1	Weight (kg)
05	100H7	100H7	210	615	165	240	97.5	460	230	40	180	100	455	175	90	405	19	24H9	337
06	110H7	110H7	210	650	165	240	97.5	490	230	10	180	145	490	220	90	440	19	24H9	416
07	120H7	120H7	210	725	195	280	114	560	280	0	215	130	560	215	110	495	24	28H9	573
08	130H7	130H7	250	770	195	285	114	580	280	0	215	190	605	275	110	540	24	28H9	677
09	140H7	140H7	250	840	235	330	140	640	320	15	245	155	660	260	130	580	28	36H9	925
10	150H7	150H7	300	890	235	350	140	670	320	0	245	205	710	310	130	630	28	36H9	1139
11	165H7	165H7	300	1010	270	400	161	760	380	30	300	180	805	295	160	705	35	40H9	1514
12	180H7	180H7	300	1080	270	405	161	783	380	5	300	265	875	380	160	775	35	40H9	1775

B413H-B418H

B413H-B418H

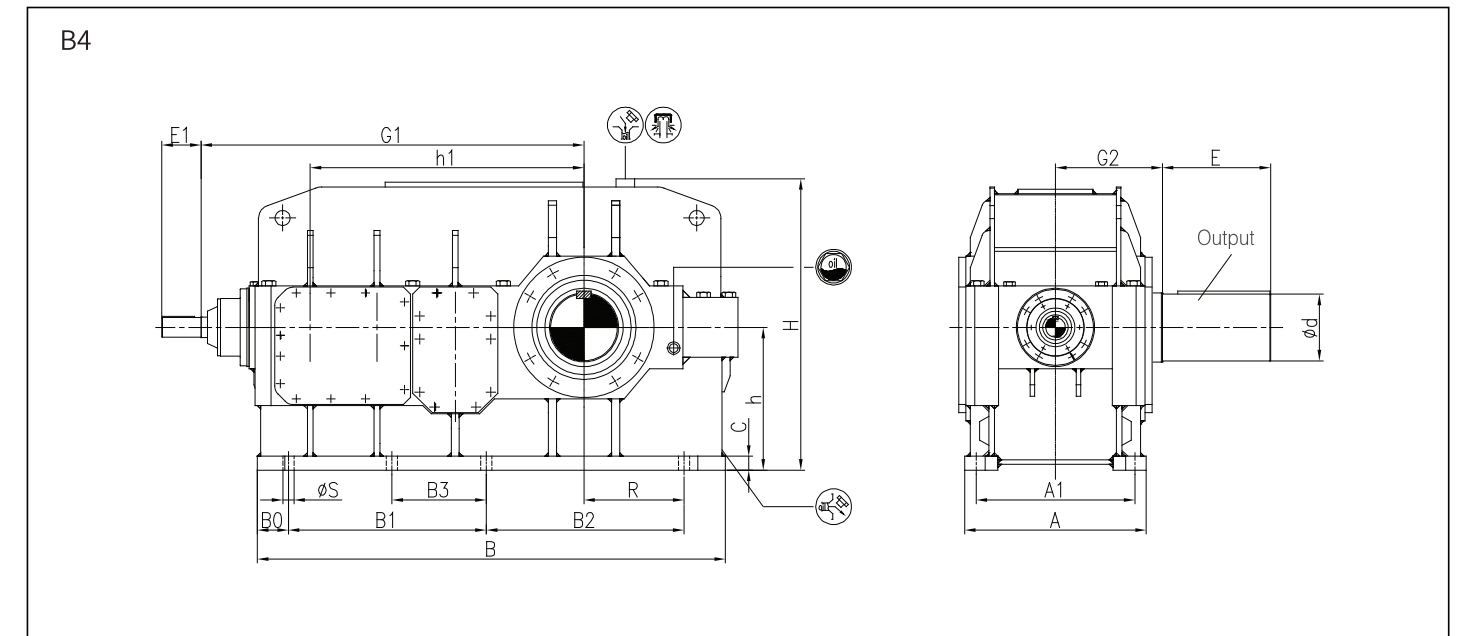


Size	iN=90~250		iN=100~280		iN=280~355		iN=315~400		A	A1	B	B0	B1	B2	C
	d1	E1	d1	E1	d1	E1	d1	E1							
13			60m6	140			50k6	110	545	475	1470	137	667.5	527.5	60
14			60m6	140			50k6	110	545	475	1610	137	667.5	667.5	60
15			75m6	140			60m6	140	620	535	1760	161	840	600	70
16			75m6	140			60m6	140	620	535	1850	160	840	690	70
17	75m6	140			60m6	140			680	600	1820	160	840	660	80
18			75m6	140			60m6	140	680	600	1940	160	840	780	80

Size	d	D	D2	D3	E	G1	G2	G4	H	h	h5	R	R4	S	Weight (kg)
13	200m6	190H7	190H7	190H7	350	1170	335	480	875	440	0	305	820	35	2455
14	220m6	210H7	210H7	210H7	350	1240	335	480	940	440	40	375	890	35	3000
15	240m6	230H7	230H7	230H7	410	1407	380	550	1000	500	60	365	987	42	3805
16	250m6	240H7	240H7	240H7	410	1453	380	550	1035	500	20	410	1033	42	4315
17	260n6	250H7	250H7	250H7	410	1455	415	600	1105	550	60	390	1035	42	4810
18	280n6	275H7	280H7	280H7	470	1515	415	600	1110	550	70	450	1095	42	5340

B419H~B426H

B419H~B426H

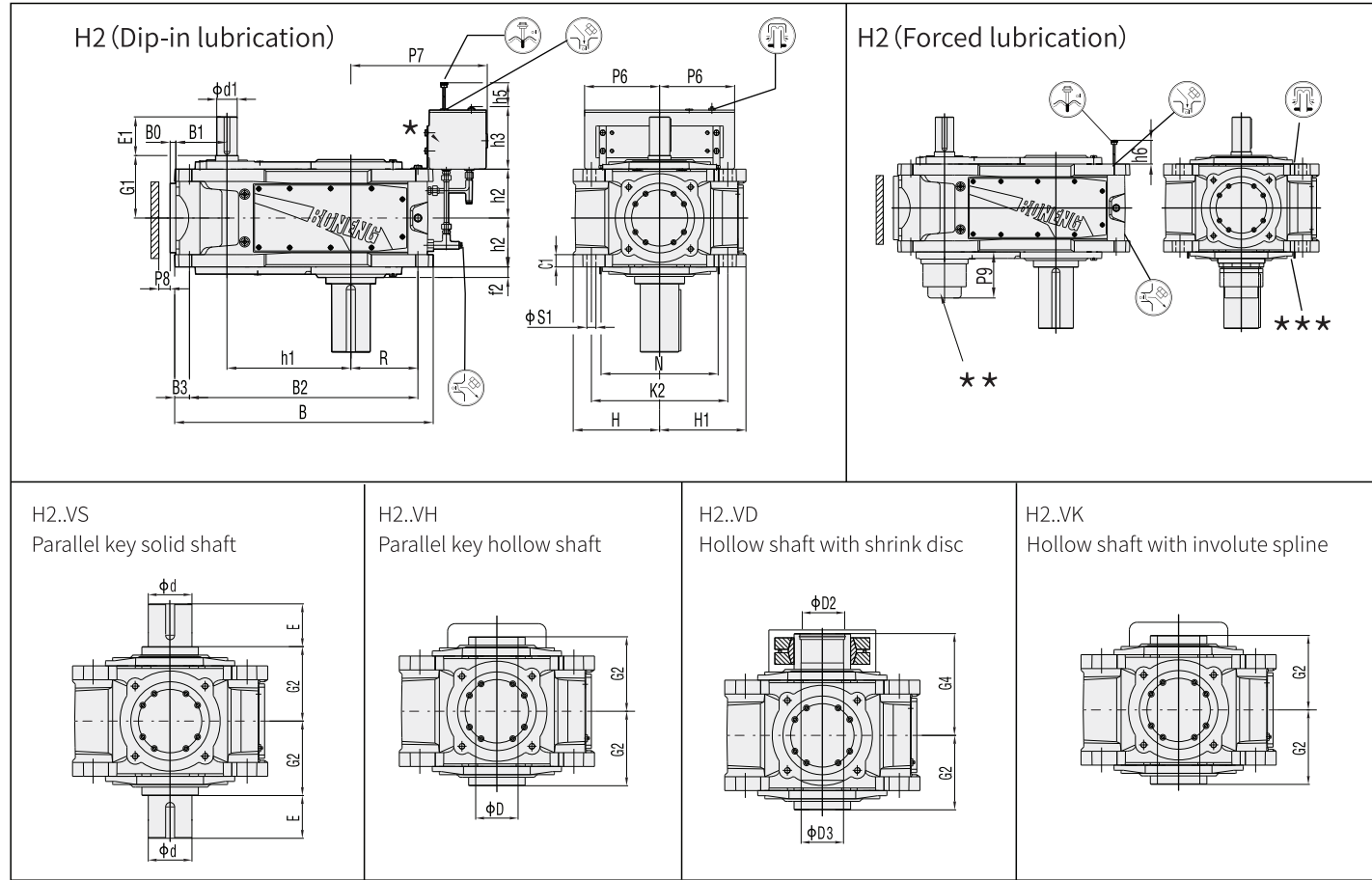


Size	iN=90~250		iN=100~250		iN=100~280		iN=280~355		iN=280~400		iN=315~400		A	A1	B
	d1	E1	d1	E1	d1	E1	d1	E1	d1	E1	d1	E1			
19			85m6	170			70m6	140					790	690	2035
20					85m6	170					70m6	140	790	690	2165
21			95m6	170					75m6	140			830	720	2375
22					95m6	170					75m6	140	830	720	2465
23	95m6	170					75m6	140					930	810	2560
24					95m6	170					75m6	140	930	810	2715
25	115m6	210					90m6	170					1050	910	2890
26	115m6	210					90m6	170					1050	910	3050

Size	B0	B1	B2	B3	C	d	E	G1	G2	H	h	h1	R	S	Weight (kg)
19	135	860	860	/	60	290n6	470	1665	465	1270	620	1190	435	48	6800
20	135	860	980	/	60	310n6	470	1725	465	1270	620	1250	495	48	8300
21	155	1000	1000	/	70	330n6	550	1992	490	1425	700	1387	485	56	9300
22	155	1000	1110	/	70	350n6	550	2047	490	1425	700	1442	540	56	10100
23	180	1185	985	545	80	370n6	550	2110	540	1565	780	1505	550	56	12600
24	180	1185	1115	545	80	390n6	650	2175	540	1565	780	1570	615	56	14600
25	175	1350	1080	640	90	410n6	650	2395	605	1785	860	1695	590	66	17400
26	175	1350	1260	565	90	430n6	650	2485	605	1785	860	1785	680	66	19000

H204V-H212V

H204V-H212V



★ 补偿油箱(附件代号:US33)
★★ 油泵(附件代号US31)
★★★ 安装面

★ Compensation oil tank (Accessory code:US33)
★★ Oil Pump(Accessory code:US31)
★★★ Mounting position

Size	iN≤3. 15 (Size:04) iN≤3. 55 (Size:06) iN≤4 (Size:08、09、11) iN≤5. 6 (Size:12)		3. 55≤iN≤5. 6 (Size:04) 4≤iN≤5. 6 (Size:06) 4.5≤iN≤5.6 (Size:08、09、11)		6. 3≤iN≤11. 2		12. 5≤iN≤22. 4		B	B0	B1	B2	B3	C1	d	D	D2	D3	E	f2
	d1	E1	d1	E1	d1	E1	d1	E1												
04	45k6	110	32k6	80	45k6	110	32k6	80	586	16	110	505	37	30±1	80m6	80H7	85H7	85H7	170	35
05	/	/	/	/	50k6	110	38k6	80	667	16	130	580	38	30±1	100m6	95H7	100H7	100H7	210	30
06	50k6	110	38k6	80	50k6	110	38k6	80	743	16	130	660	38	30±1	110m6	105H7	110H7	110H7	210	30
07	/	/	/	/	60m6	140	50k6	110	816	20	160	715	46	36±1	120m6	115H7	120H7	120H7	210	35
08	60m6	140	50k6	110	60m6	140	50k6	110	920	20	160	820	46	36±1	130m6	125H7	130H7	130H7	250	35
09	75m6	140	60m6	140	75m6	140	60m6	140	957	20	185	845	51	45±1. 5	140m6	135H7	140H7	140H7	250	35
10	/	/	/	/	75m6	140	60m6	140	1062	20	185	945	51	45±1. 5	160m6	150H7	150H7	150H7	300	35
11	90m6	170	70m6	140	90m6	170	70m6	140	1132	25	225	1005	63	54±1. 5	170m6	165H7	165H7	165H7	300	42
12	90m6	170	/	/	90m6	170	70m6	140	1292	25	225	1160	63	54±1. 5	180m6	180H7	180H7	180H7	300	42

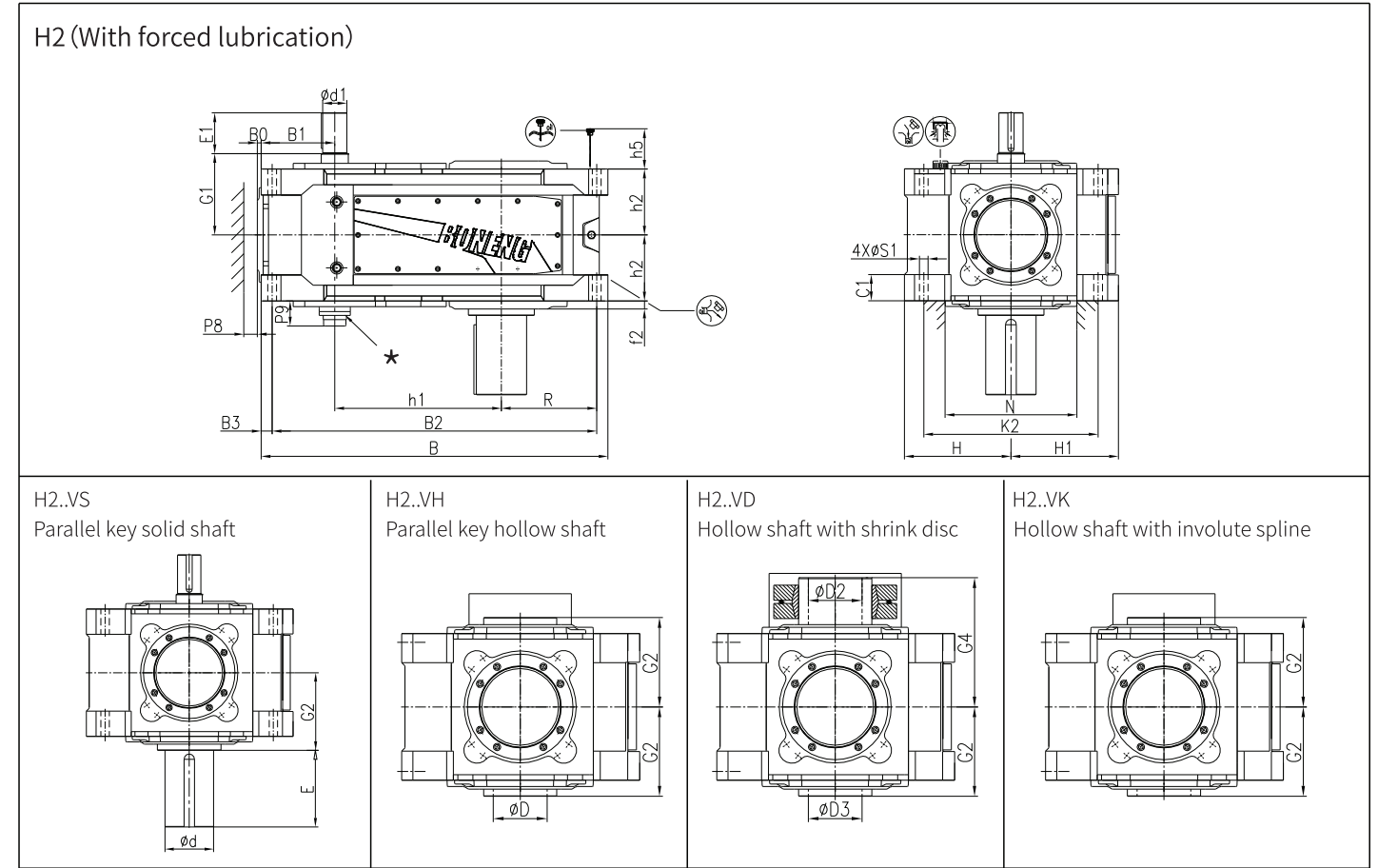
Size	G1	G2	G4	H	H1	h1	h2	h3	h5	h6	K2	N	P6	P7	P8	P9	R	S1	Weight (kg)
04	170	140	205	200	200	270	107. 5	175	140	85	300	250	150	340	35	132	160	24H9	195
05	195	165	240	230	230	315	127. 5	210	160	105	360	310	240	405	35	145	175	24H9	310
06	195	165	240	230	260	350	127. 5	210	160	105	360	310	240	450	35	145	220	24H9	385
07	210	195	280	280	280	385	150	210	160	120	430	360	240	445	35	143	215	28H9	519
08	210	195	285	280	300	430	150	210	160	120	430	360	240	505	35	143	275	28H9	624
09	240	235	330	320	320	450	185	285	200	155	490	410	330	585	40	135	260	36H9	828
10	240	235	350	320	350	500	185	285	200	155	490	430	330	635	40	135	310	36H9	1044
11	275	270	400	380	380	545	215	285	200	150	600	500	330	620	50	142	295	40H9	1371
12	275	270	405	380	410	615	215	285	200	150	600	500	330	705	50	142	380	40H9	1644

*默认安装面为下表面, 以上表面为安装面请在订货时注明。

*The general mounting is up position,if down mounting position, please mention in the order.

H213V-H218V

H213V-H218V



★ 油泵(附件代号US31)

★ Oil Pump(Accessory code:US31)

Size	iN=3. 15-11. 2		iN=3. 15-12. 5		iN=12. 5-20		iN=14-20		B	B0	B1	B2	B3	C1	d	D
	d1	E1	d1	E1	d1	E1	d1	E1								
13	100m6	210			85m6	170			1375	0	292	1270	52	105±2	200m6	190H7
14	100m6	210			85m6	170			1505	2	287	1410	47	105±2	220m6	210H7
15	120m6	210			100m6	210			1630	7	343	1515	57	125±2	240m6	230H7
16	120m6	210			100m6	210			1720	8	342	1605	57	125±2	250m6	240H7
17	125m6	210			100m6	210			1790	20	380	1675	57	135±2	260n6	250H7
18			125m6	210			110m6	210	1910	20	380	1795	57	135±2	280n6	275H7

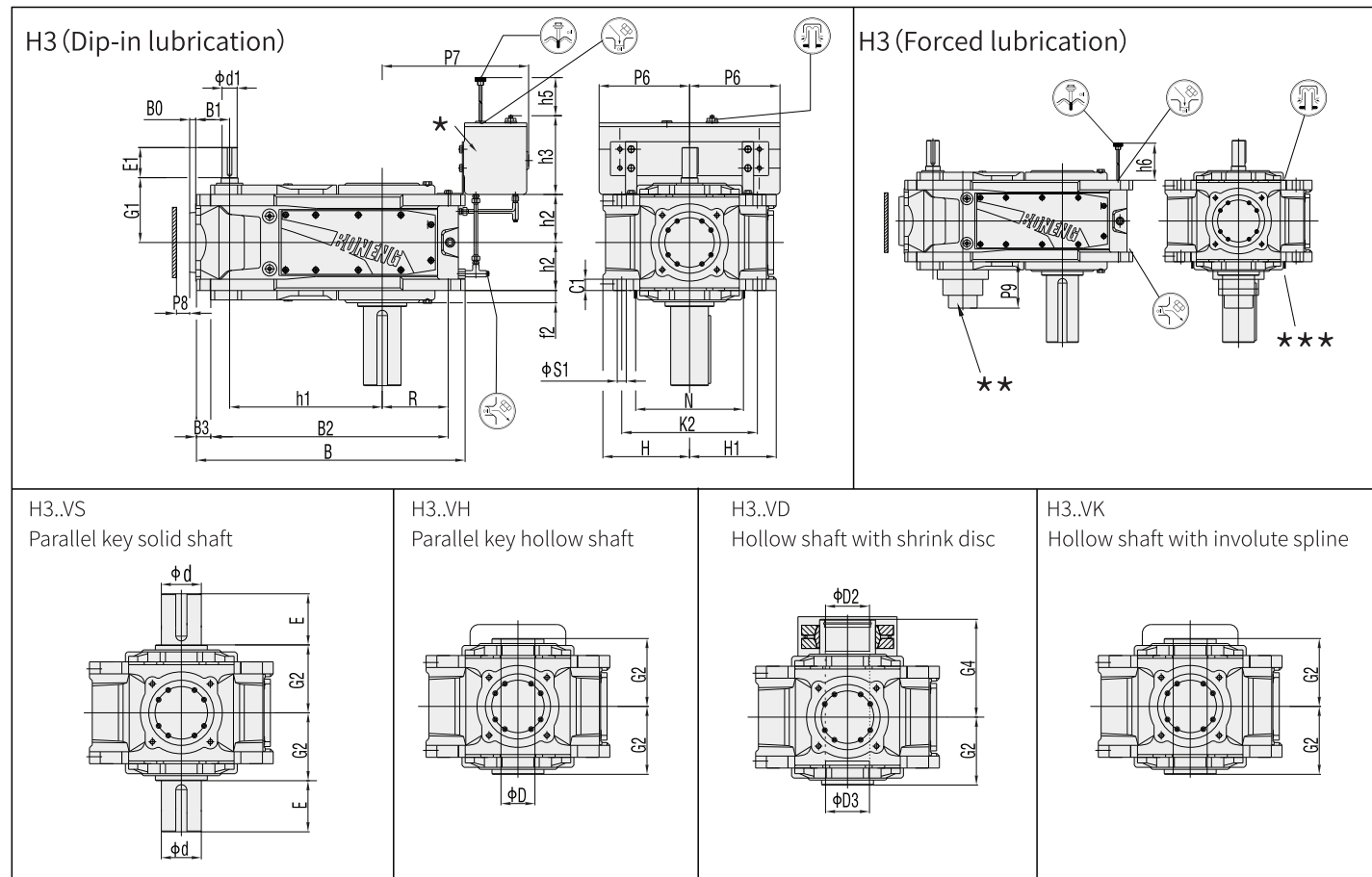
Size	D2	D3	E	f 2	G1	G2	G4	H	H1	h1	h2	h5	K2	N	P8	P9	R	S1	Weight (kg)
13	190H7	190H7	350	35	330	335	480	440	435	635	272. 5	210	720	550	50	130	395	48	2075
14	210H7	210H7	350	35	330	335	480	440	500	705	272. 5	210	740	570	50	130	465	48	2825
15	230H7	230H7	410	32	365	380	550	500	500	762	310	230	820	640	50	130	467	55	3610
16	240H7	240H7	410	32	365	380	550	500	535	808	310	230	860	650	50	130	512	55	3970
17	250H7	250H7	410	42	420	415	600	550	555	860	340	250	900	690	70	170	492	55	4765
18	280H7	280H7	470	42	420	415	600	550	560	920	340	250	900	710	70	170	552	55	5265

*默认安装面为下表面, 以上表面为安装面请在订货时注明。

*The general mounting is up position,if down mounting position, please mention in the order.

H305V-H312V

H305V-H312V



★ 补偿油箱(附件代号:US33)
★★ 油泵(附件代号US31)
★★★ 安装面

★ Compensation oil tank (Accessory code:US33)
★★ Oil Pump(Accessory code:US31)
★★★ Mounting position

Size	iN ≤ 45		iN ≤ 50		iN ≥ 50		iN ≥ 56		B	B0	B1	B2	B3	C1	d	D	D2	D3
	d1	E1	d1	E1	d1	E1	d1	E1										
05	40k6	80			30k6	60			713	16	90	630	38	30 ± 1	100m6	95H7	100H7	100H7
06	40k6	80			30k6	60			793	16	90	710	38	30 ± 1	110m6	105H7	110H7	110H7
07			45k6	110			35k6	80	876	16	110	775	46	36 ± 1	120m6	115H7	120H7	120H7
08			45k6	110			35k6	80	981	16	110	880	46	36 ± 1	130m6	125H7	130H7	130H7
09			60m6	140			45k6	110	1033	20	130	920	51	45 ± 1.5	140m6	135H7	140H7	140H7
10			60m6	140			45k6	110	1131	20	130	1020	51	45 ± 1.5	160m6	150H7	150H7	150H7
11			70m6	140			50k6	110	1227	20	160	1100	63	54 ± 1.5	170m6	165H7	165H7	165H7
12			70m6	140			50k6	110	1382	20	160	1255	63	54 ± 1.5	180m6	180H7	180H7	180H7

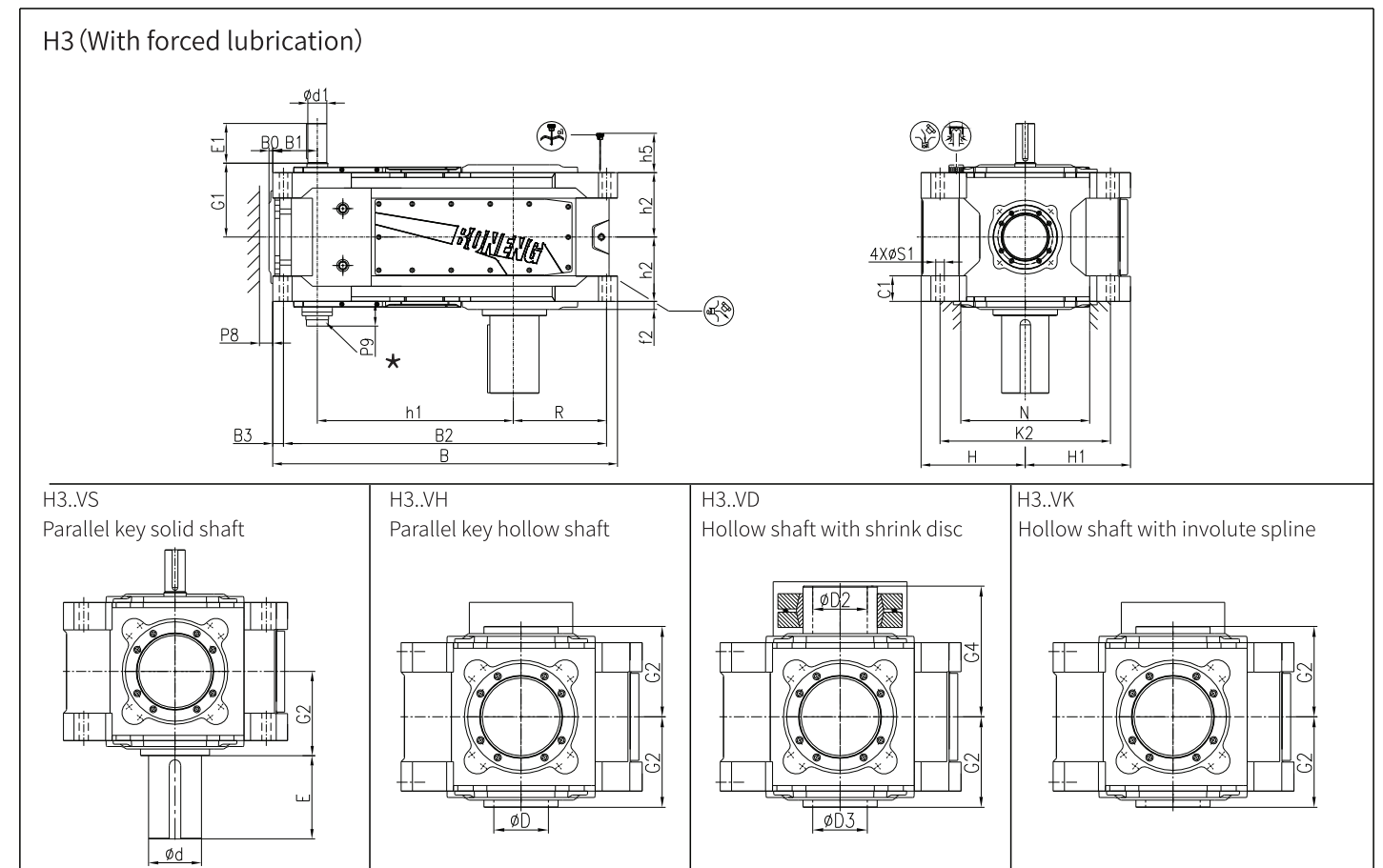
Size	E	f2	G1	G2	G4	H	H1	h1	h2	h3	h5	h6	K2	N	P6	P7	P8	P9	R	S1	Weight (kg)
05	210	30	170	165	240	230	230	405	127.5	210	160	105	360	310	240	405	35	145	175	24H9	324
06	210	30	170	165	240	230	260	440	127.5	210	160	105	360	310	240	450	35	145	220	24H9	403
07	210	35	210	195	280	280	280	495	150	210	160	120	430	360	240	445	35	143	215	28H9	558
08	250	35	210	195	285	280	300	540	150	210	160	120	430	360	240	505	35	143	275	28H9	663
09	250	35	240	235	330	320	320	580	185	285	200	155	490	420	330	585	40	155	260	36H9	899
10	300	35	240	235	350	320	350	630	185	285	200	155	490	430	330	635	40	155	310	36H9	1113
11	300	42	275	270	400	380	380	705	215	285	200	150	600	510	330	620	50	162	295	40H9	1481
12	300	42	275	270	405	380	410	775	215	285	200	150	600	510	330	705	50	162	380	40H9	1742

*默认安装面为下表面, 以上表面为安装面请在订货时注明。

*The general mounting is up position,if down mounting position, please mention in the order.

H313V-H318V

H313V-H318V



★ 油泵(附件代号US31)

★ Oil Pump(Accessory code:US31)

Size	iN=14-45		iN=16-50		iN=50-100		iN=56-100		iN=56-112		B	B0	B1	B2	B3	C1	d	D
	d1	E1	d1	E1	d1	E1	d1	E1	d1	E1								
13			85m6	170			60m6	140			1470	0	207	1375	47	105 ± 2	200m6	190H7
14			85m6	170			60m6	140			1610	0	207	1515	48	105 ± 2	220m6	210H7
15			100m6	210					75m6	140	1760	0	249	1655	51	125 ± 2	240m6	230H7
16			100m6	210					75m6	140	1850	2	247	1735	57	125 ± 2	250m6	240H7
17	100m6	210			75m6	140					1820	14	235	1705	57	135 ± 2	260n6	250H7
18			100m6	210					75m6	140	1940	14	235	1825	57	135 ± 2	280n6	275H7

Size	D2	D3	E	f2	G1	G2	G4	H	H1	h1	h2	h5	K2	N	P8	P9	R	S1	Weight (kg)
13	190H7	190H7	350	35	325	335	480	440	435	820	272.5	210	720	570	50	170	395	48	2355
14	210H7	210H7	350	35	325	335	480	440	500	890	272.5	210	740	570	50	170	465	48	2880
15	230H7	230H7	410	32	365	380	550	500	500	987	310	230	820	710	50	170	470	55	3640
16	240H7	240H7	410	32	365	380	550	500	535	1033	310	230	860	710	50	170	512	55	4195
17	250H7	250H7	410	42	400	415	600	550	555	1035	340	250	900	790	70	210	492	55	4670
18	280H7	280H7	470	42	400	415	600	550	560	1095	340	250	900	790	70	210	552	55	5165

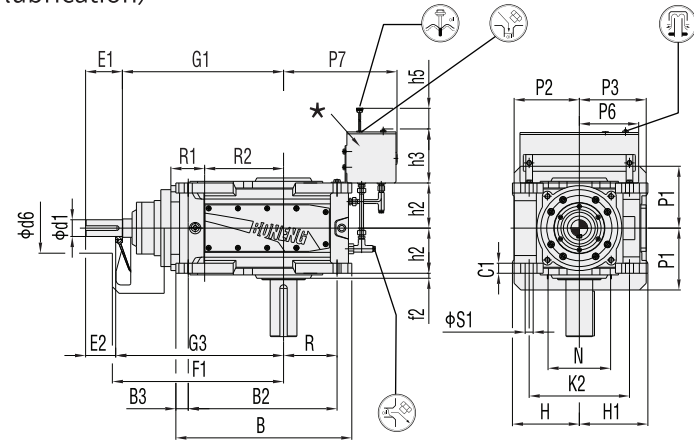
*默认安装面为下表面, 以上表面为安装面请在订货时注明。

*The general mounting is up position,if down mounting position, please mention in the order.

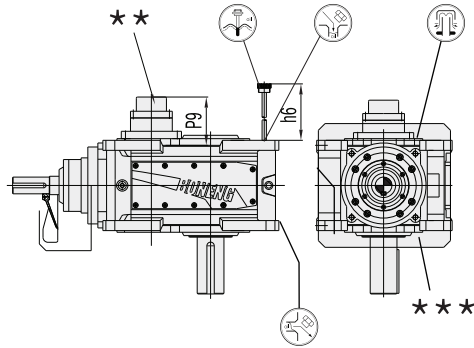
B204V-B212V

B204V-B212V

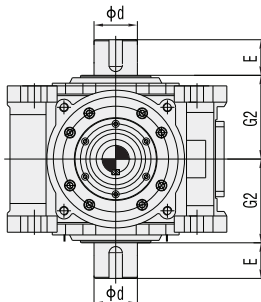
B2 (Dip-in lubrication)



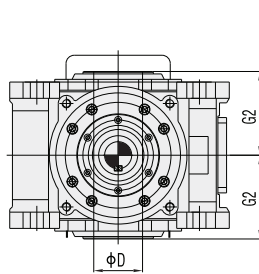
B2 (Forced lubrication)



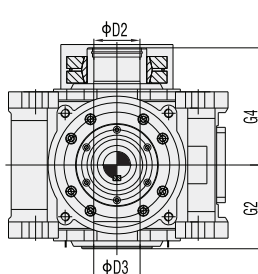
B2..VS
Parallel key solid shaft



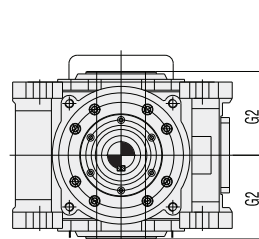
B2..VH
Parallel key hollow shaft



B2..VD
Hollow shaft with shrink disc



B2..VK
Hollow shaft with involute spline



★ 补偿油箱(附件代号:US33)
★★ 油泵(附件代号US31)
★★★ 安装面

★ Compensation oil tank (Accessory code:US33)
★★ Oil Pump(Accessory code:US31)
★★★ Mounting position

Size	iN ≤ 14			B	B2	B3	C1	d	d6	D	D2	D3	E	F1	f2	G1	G2
	d1	E1	E2														
04	50k6	110	90	530	445	50	30 ± 1	80m6	150	80H7	85H7	85H7	170	517	20	482	140
05	60m6	140	110	595	505	55	30 ± 1	100m6	160	95H7	100H7	100H7	210	596	10	551	165
06	60m6	140	110	680	585	60	30 ± 1	110m6	160	105H7	110H7	110H7	210	635	10	590	165
07	75m6	140	110	725	620	60	36 ± 1	120m6	210	115H7	120H7	120H7	210	705	15	660	195
08	75m6	140	110	825	725	55	36 ± 1	130m6	210	125H7	130H7	130H7	250	745	15	700	195
09	85m6	170	135	860	740	70	48 ± 1.5	140m6	220	135H7	140H7	140H7	250	805	20	755	235
10	85m6	170	135	970	840	80	48 ± 1.5	160m6	220	150H7	150H7	150H7	300	865	20	815	235
11	95m6	170	135	1030	875	90	54 ± 1.5	170m6	250	165H7	165H7	165H7	300	1005	15	945	270
12	95m6	170	135	1165	1030	70	54 ± 1.5	180m6	250	180H7	180H7	180H7	300	1055	15	995	270

Size	G3	G4	H	H1	h2	h3	h5	h6	K2	N	P1	P2	P3	P6	P7	P9	R	R1	R2	S1	Weight (kg)
04	502	205	200	200	135	175	140	130	300	250	185	195	200	150	340	140	160	160	177	24H9	217
05	581	240	230	230	160	210	160	145	360	310	215	220	235	240	405	132	175	185	201	24H9	349
06	620	240	230	260	160	210	160	145	360	310	215	220	235	240	450	132	220	185	240	24H9	437
07	690	280	280	280	190	210	160	180	430	360	250	270	285	240	445	150	215	225	240	28H9	599
08	730	285	280	300	190	210	160	180	430	360	250	270	285	240	505	150	275	225	280	28H9	723
09	790	330	320	320	220	285	200	165	490	390	250	310	325	330	585	160	260	265	280	36H9	921
10	850	350	320	350	220	285	200	165	490	430	250	310	325	330	635	160	310	265	340	36H9	1158
11	980	400	380	380	265	285	200	140	600	450	330	370	385	330	620	161	295	320	340	40H9	1516
12	1030	405	380	410	265	285	200	140	600	490	330	370	385	330	705	161	380	320	390	40H9	1833

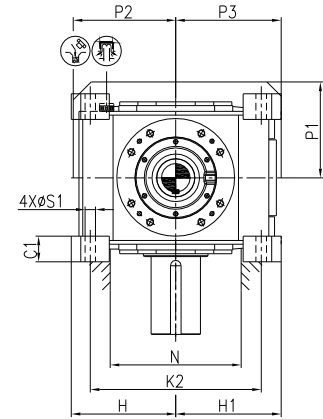
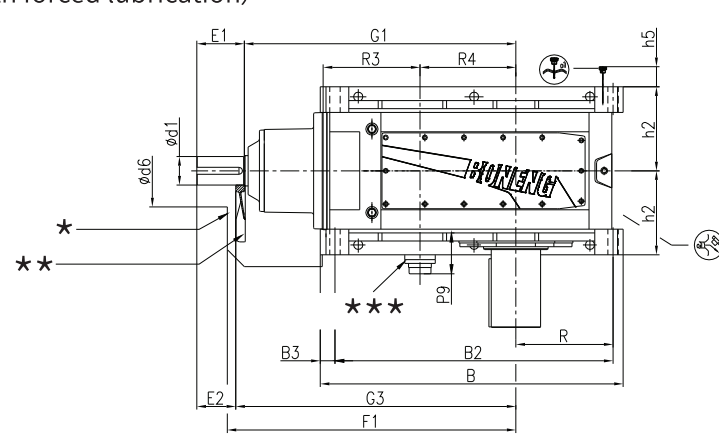
*默认安装面为下表面, 以上表面为安装面请在订货时注明。

*The general mounting is up position,if down mounting position, please mention in the order.

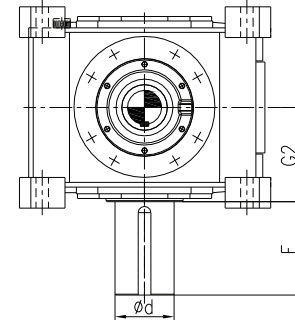
B213V-B218V

B213V-B218V

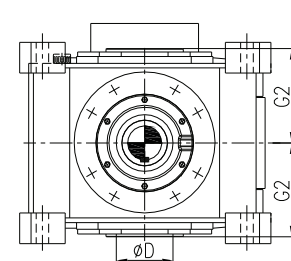
B2 (With forced lubrication)



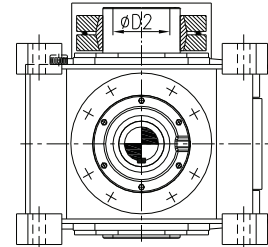
B2..VS
Parallel key solid shaft



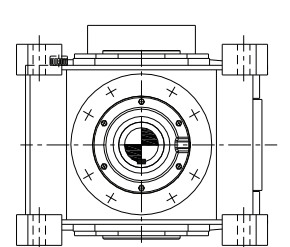
B2..VH
Parallel key hollow shaft



B2..VD
Hollow shaft with shrink disc



B2..VK
Hollow shaft with involute spline



★ 风扇罩
★★ 冷却风扇 (附件代号UF21)
★★★ 轴端油泵 (附件代号US31)

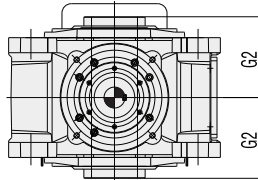
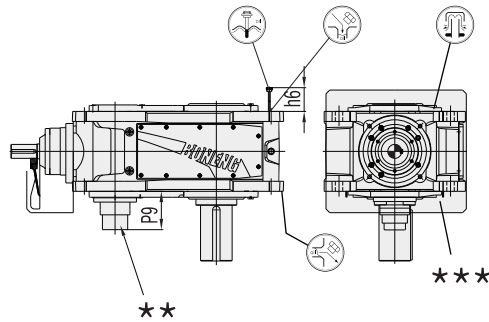
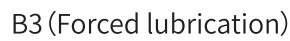
★ Fan guard
★★ Cooling fan (Accessory code:UF21)
★★★ Pump(Accessory code:US31)

Size	iN=6. 3-14			iN=7. 1-14			B	B2	B3	C1	d	d6	D	D2	D3	E	F1	f2	G1
	d1	E1	E2	d1	E1	E2													
13	115m6	210	175				1205	1110	47	105 ± 2	200m6	245	190H7	190H7	190H7	350	1175	35	1092
14	115m6	210	175				1345	1250	47	105 ± 2	220m6	245	210H7	210H7	210H7	350	1245	35	1170
15	140m6	250	200				1430	1315	57	125 ± 2	240m6	280	230H7	230H7	230H7	410	1385	32	1305
16	140m6	250	200				1520	1405	57	125 ± 2	250m6	280	240H7	240H7	240H7	410	1430	32	1330
17	150m6	250	200				1595	1465	65	135 ± 2	260n6	380	250H7	250H7	250H7	410	1520	42	1450
18				150m6	250	200	1715	1585	65	135 ± 2	280n6	380	275H7	280H7	280H7	470	1580	42	1515

Size	G2	G3	G4	H	H1	h2	h5	K2	N	P1	P2	P3	P9	R	R3	R4	S1	Weight (kg)
13	335	1127	480	440	430	325	210	720	550	375	430	450	200	395	370	392	48	2530
14	335	1205	480	440	445	325	210	740	570	375	430	450	200	465	370	470	48	2945
15	380	1355	550	500	500	380	230	820	590	435	490	495	200	467	442	470	55	4230
16	380	1380	550	500	535	380	230	860	650	435	490	495	200	512	442	495	55	4750
17	415	1500	600	550	555	437.5	250	900	690	505	540	555	200	512	490	505	55	5990
18	415	1565	600	550	560	437.5	250	900	710	505	540	555	200	572	490	570	55	6555

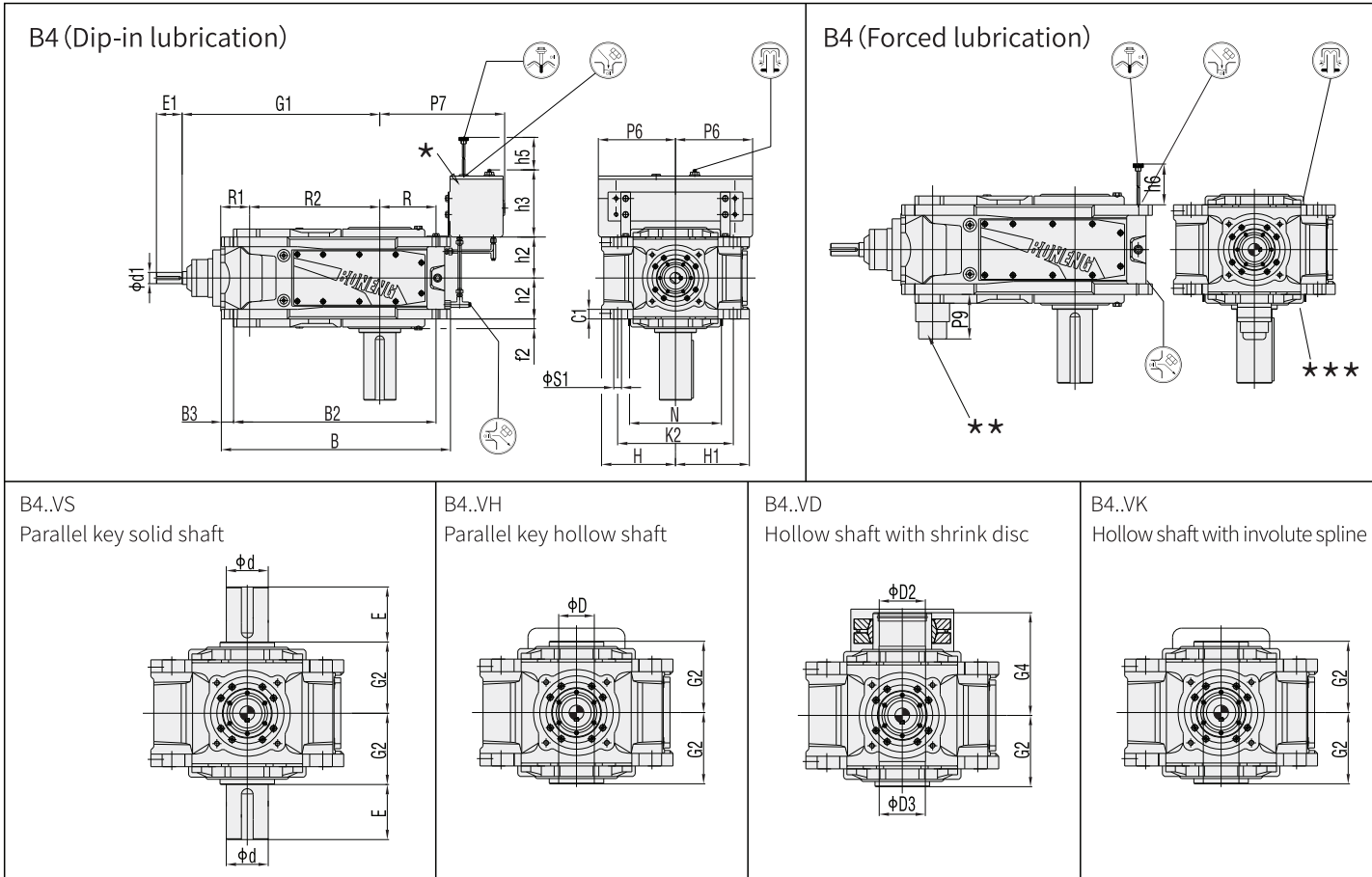
*默认安装面为下表面, 以上表面为安装面请在订货时注明。

*The general mounting is up position,if down mounting position, please mention in the order.



B405V-B412V

B405V-B412V



★ 补偿油箱(附件代号:US33)
★★ 油泵(附件代号US31)
★★★ 安装面

★ Compensation oil tank (Accessory code:US33)
★★ Oil Pump(Accessory code:US31)
★★★ Mounting position

Size	iN ≤ 250		iN ≤ 280		iN ≥ 280		iN ≥ 315		B	B2	B3	C1	d	D	D2	D3	E	f2
	d1	E1	d1	E1	d1	E1	d1	E1										
05			35k6	80			25k6	50	713	630	38	30 ± 1	100m6	95H7	100H7	100H7	210	30
06			35k6	80			25k6	50	793	710	38	30 ± 1	110m6	105H7	110H7	110H7	210	30
07			35k6	80			30k6	60	876	775	46	36 ± 1	120m6	115H7	120H7	120H7	210	35
08			35k6	80			30k6	60	981	880	46	36 ± 1	130m6	125H7	130H7	130H7	250	35
09	45k6	110			35k6	80			1033	920	51	45 ± 1.5	140m6	135H7	140H7	140H7	250	35
10	45k6	110			35k6	80			1131	1020	51	45 ± 1.5	160m6	150H7	150H7	150H7	300	35
11			50k6	110			40k6	80	1227	1100	63	54 ± 1.5	170m6	165H7	165H7	165H7	300	42
12			50k6	110			40k6	80	1382	1255	63	54 ± 1.5	180m6	180H7	180H7	180H7	300	42

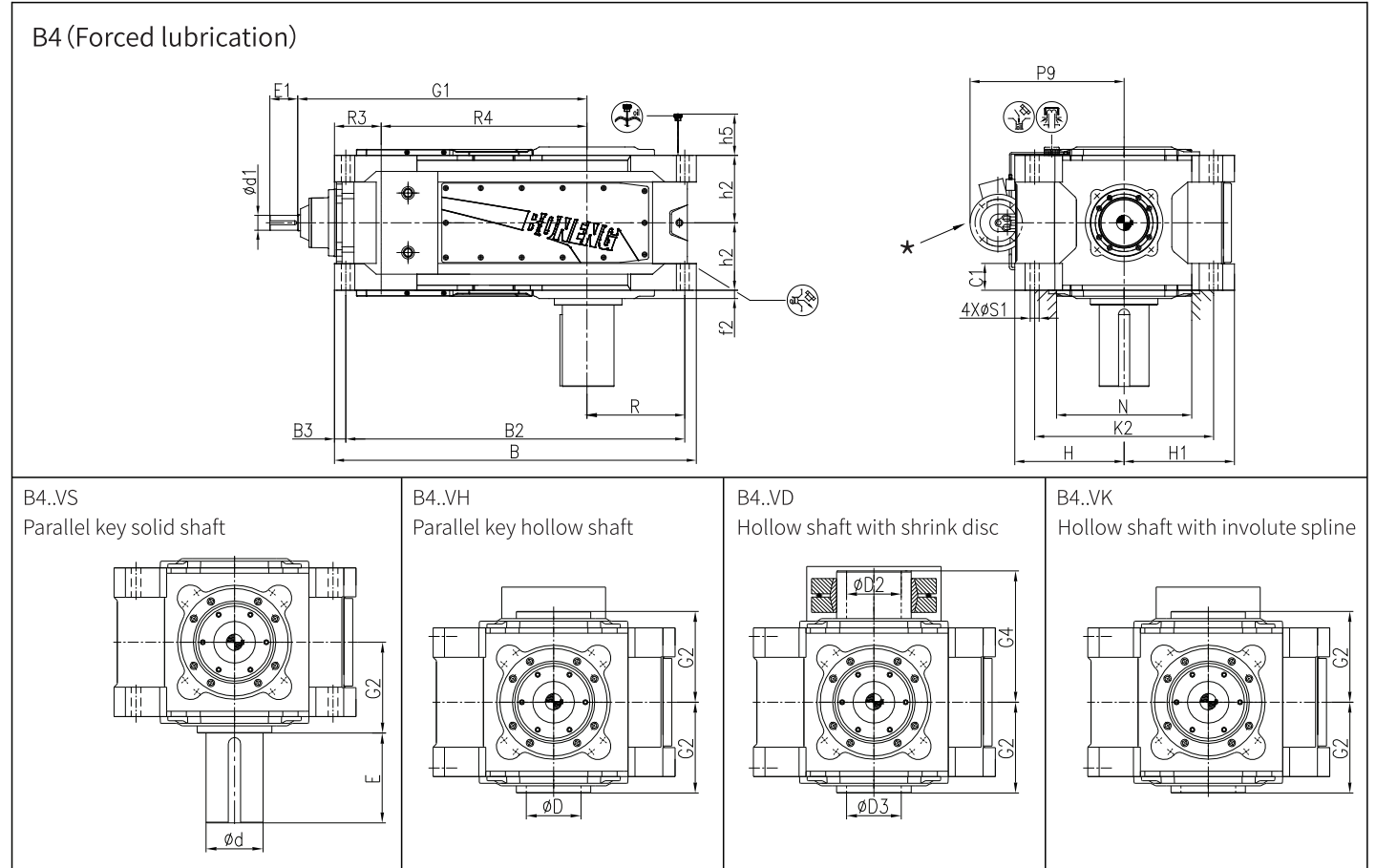
Size	G1	G2	G4	H	H1	h2	h3	h5	h6	K2	N	P6	P7	P9	R	R1	R2	S1	Weight (kg)
05	615	165	240	230	230	127.5	210	160	105	360	310	240	405	120	175	90	405	24H9	337
06	650	165	240	230	260	127.5	210	160	105	360	310	240	450	120	220	90	440	24H9	416
07	725	195	280	280	280	150	210	160	120	430	360	240	445	102	215	110	495	28H9	573
08	770	195	285	280	300	150	210	160	120	430	360	240	505	102	275	110	540	28H9	677
09	840	235	330	320	320	185	285	200	155	490	420	330	585	125	260	130	580	36H9	925
10	890	235	350	320	350	185	285	200	155	490	430	330	635	125	310	130	630	36H9	1139
11	1010	270	400	380	380	215	285	200	150	600	510	330	620	140	295	160	705	40H9	1514
12	1080	270	405	380	410	215	285	200	150	600	510	330	705	140	380	160	775	40H9	1775

*默认安装面为下表面, 以上表面为安装面请在订货时注明。

*The general mounting is up position,if down mounting position, please mention in the order.

B413V-B418V

B413V-B418V



★ 电机油泵 (附件代号US32)

★ Motor Pump(Accessory code:US32)

Size	iN=90-250		iN=100-280		iN=280-355		iN=315-400		B	B2	B3	C1	d	D	D2	D3
	d1	E1	d1	E1	d1	E1	d1	E1								
13			60m6	140			50k6	110	1470	1375	47	105±2	200m6	190H7	190H7	190H7
14			60m6	140			50k6	110	1610	1515	48	105±2	220m6	210H7	210H7	210H7
15			75m6	140			60m6	140	1760	1655	51	125±2	240m6	230H7	230H7	230H7
16			75m6	140			60m6	140	1850	1735	57	125±2	250m6	240H7	240H7	240H7
17	75m6	140			60m6	140			1820	1705	57	135±2	260n6	250H7	250H7	250H7
18			75m6	140			60m6	140	1940	1825	57	135±2	280n6	275H7	280H7	280H7

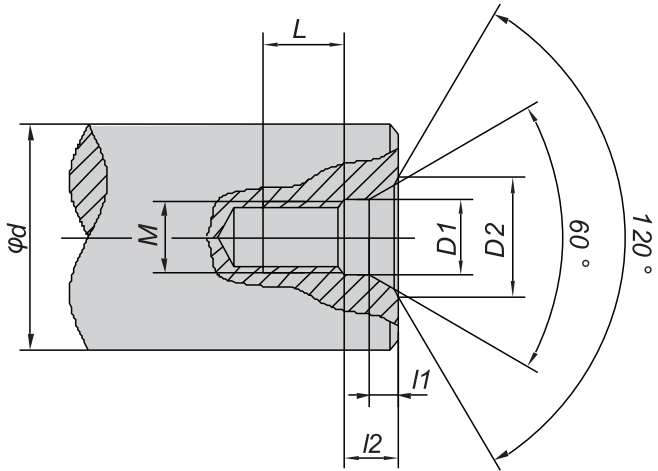
Size	E	f2	G1	G2	G4	H	H1	h2	h5	K2	N	P9	R	R4	S1	Weight (kg)
13	350	35	1170	335	480	440	435	272.5	210	720	570	670	395	820	48	2455
14	350	35	1240	335	480	440	500	272.5	210	740	570	670	465	890	48	3000
15	410	32	1407	380	550	500	500	310	230	820	710	710	470	987	55	3805
16	410	32	1453	380	550	500	535	310	230	860	710	710	512	1033	55	4315
17	410	42	1455	415	600	550	555	340	250	900	790	775	492	1035	55	4810
18	470	42	1515	415	600	550	560	340	250	900	790	775	552	1095	55	5340

*默认安装面为下表面, 以上表面为安装面请在订货时注明。

*The general mounting is up position,if down mounting position, please mention in the order.

12 轴端中心孔

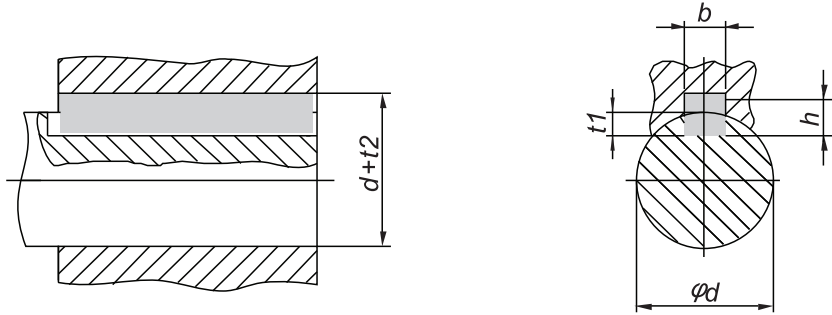
12 Shaft end central hole



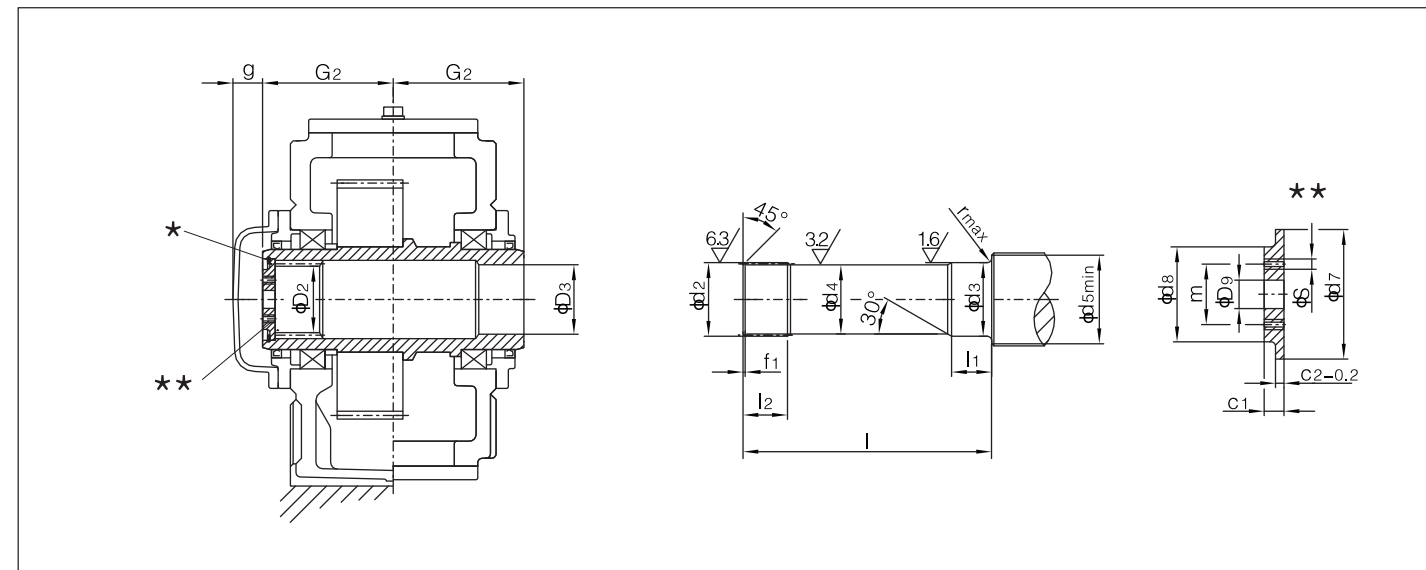
d	M	L	12	11	D1	D2
7 < d ≤ 10	M3	10	2.6	1.8	3.2	5.8
10 < d ≤ 13	M4	10	3.2	2.1	4.3	7.4
13 < d ≤ 16	M5	10	4	2.4	5.3	8.8
16 < d ≤ 21	M6	12	5	2.8	6.4	10.5
21 < d ≤ 24	M8	12	6	3.3	8.4	13.2
24 < d ≤ 30	M10	15	7.5	3.8	10.5	16.3
30 < d ≤ 38	M12	20	9.5	4.4	13	19.8
38 < d ≤ 50	M16	25	12	5.2	17	25.3
50 < d ≤ 85	M20	30	15	6.4	21	31.3
85 < d ≤ 130	M24	35	18	8	26	38
130 < d ≤ 225	M30	45	18	11	31	48
225 < d ≤ 320	M36	55	22	15	37	60
320 < d ≤ 500	M42	60	26	19	43	71
500 < d ≤ 710	M48	65	30	23	49	83

13 平键与键槽的尺寸

13 Dimension of parallel key and keyway



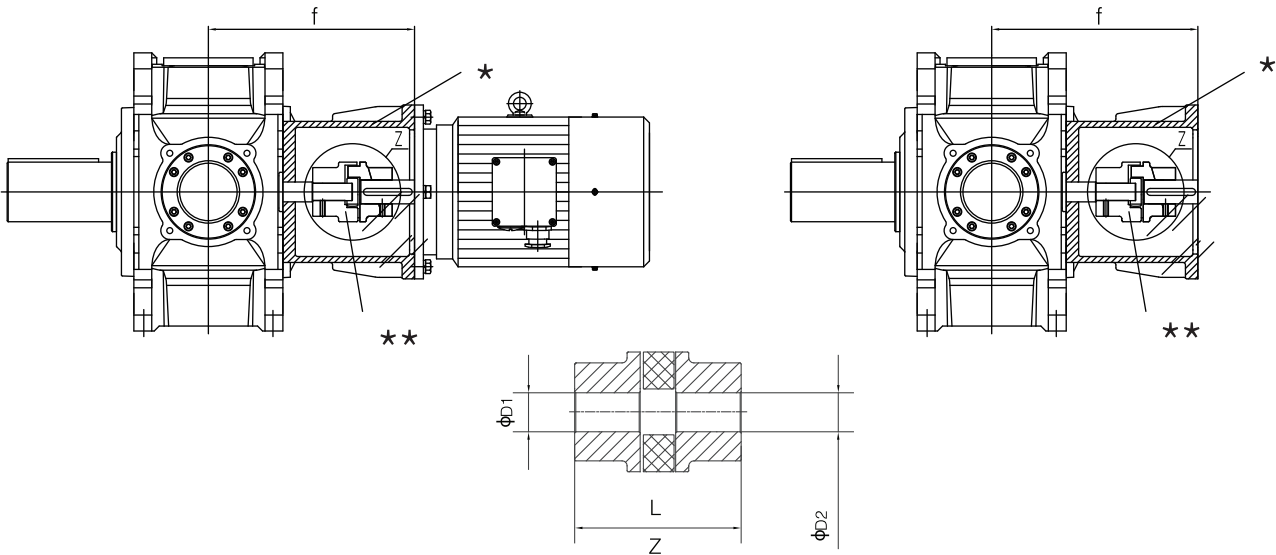
d	b	h	t ₁	d + t ₂
8 < d ≤ 10	3	3	1.8	d + 1.4
10 < d ≤ 12	4	4	2.5	d + 1.8
12 < d ≤ 17	5	5	3	d + 2.3
17 < d ≤ 22	6	6	3.5	d + 2.8
22 < d ≤ 30	8	7	4	d + 3.3
30 < d ≤ 38	10	8	5	d + 3.3
38 < d ≤ 44	12	8	5	d + 3.3
44 < d ≤ 50	14	9	5.5	d + 3.8
50 < d ≤ 58	16	10	6	d + 4.3
58 < d ≤ 65	18	11	7	d + 4.4
65 < d ≤ 75	20	12	7.5	d + 4.9
75 < d ≤ 85	22	14	9	d + 5.4
85 < d ≤ 95	25	14	9	d + 5.4
95 < d ≤ 110	28	16	10	d + 6.4
110 < d ≤ 130	32	18	11	d + 7.4
130 < d ≤ 150	36	20	12	d + 8.4
150 < d ≤ 170	40	22	13	d + 9.4
170 < d ≤ 200	45	25	15	d + 10.4
200 < d ≤ 230	50	28	17	d + 11.4
230 < d ≤ 260	56	32	20	d + 12.4
260 < d ≤ 290	63	32	20	d + 12.4
290 < d ≤ 330	70	36	22	d + 14.4
330 < d ≤ 380	80	40	25	d + 15.4
380 < d ≤ 440	90	45	28	d + 17.4
440 < d ≤ 500	100	50	31	d + 19.5
500 < d ≤ 560	110	56	34.3	d + 22.2
560 < d ≤ 640	120	63	39	d + 24.5



15 法兰输入和带电机
输入(附件代号:UF31)

15 Input with motor and
flange input(Code:UF31)

H2

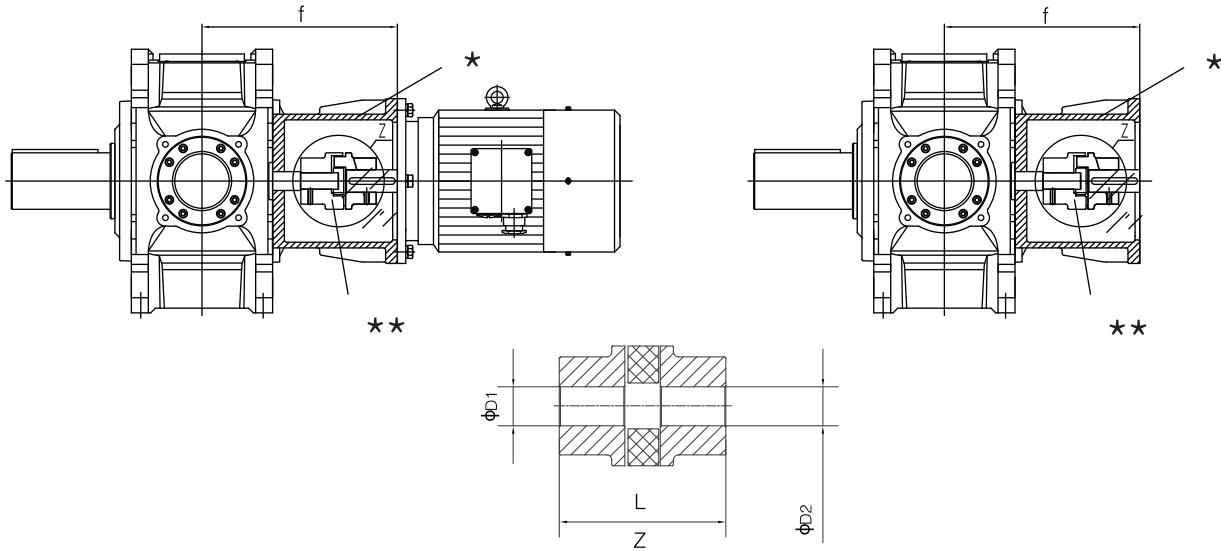


H2			iN≤11.2				iN≥12.5					
Size	Y Motor	F Flange	Coupling				f	Coupling				f
			Type	D1	D2	L		Type	D1	D2	L	
4	160							Ga55	32	42	160	375
	180							GA55	32	48	160	375
	200							GA65	32	55	185	390
	225		Ga65	45	60	185	425	GA65	32	60	185	425
5/6	200							GA65	38	55	185	415
	225							GA65	38	60	185	445
	250		GA75	50	65	210	460	GA75	38	65	210	460
	280		GA75	50	75	210	460	GA75	38	75	210	460
7/8	225							GA65	50	60	185	475
	250		GA75	60	65	210	505	GA75	50	65	210	505
	280		GA75	60	75	210	505	GA75	50	75	210	505
	315*		GA90	60	80	245	530	GA90	50	80	245	530

★ 连接法兰
★★ 联轴器

★ Connexion flange
★★ Coupling

H3

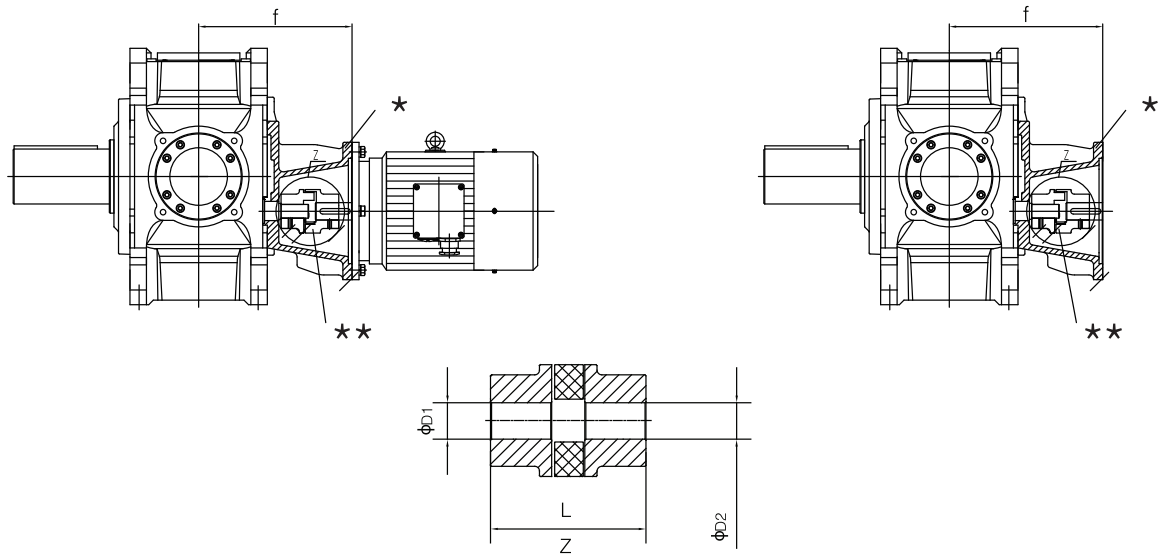


H3			iN≤45 (Size: 5、6、17) iN≤50 (Size: 7-16、18)				iN≥50 (Size: 5、6、17) iN≥56 (Size: 7-16、18)					
Size	Y Motor	F Flange	Coupling				f	Coupling				f
			Type	D1	D2	L		Type	D1	D2	L	
5/6	132							GA42	30	38	126	311
	160		GA55	40	42	160	360	GA55	30	42	160	360
	180		GA55	40	48	160	360	GA55	30	48	160	360
	200		GA65	40	55	185	375	GA65	30	55	185	376
	225		GA65	40	60	185	404.5	GA65	30	60	185	404.5
7/8	160							GA55	35	42	160	415
	180							GA55	35	48	160	415
	200		GA65	45	55	185	435	GA65	35	55	185	435
	225		GA65	45	60	185	465	GA65	35	60	185	465
	250		GA75	45	65	210	475	GA75	35	65	210	475
9/10	160							GA55	45	42	160	470
	180							GA55	45	48	160	470
	200		GA65	60	55	185	495	GA65	45	55	185	495
	225		GA65	60	60	185	530	GA65	45	60	185	530
	250		GA75	60	65	210	530	GA75	45	65	210	530
11/12	225							GA65	50	60	185	535
	250		GA75	70	65	210	565	GA75	50	65	210	565
	280		GA75	70	75	210	565	GA75	50	75	210	565
13/14	250							GA75	60	65	210	615
	280							GA75	60	75	210	615
	315		GA90	85	80	245	675	GA90	60	80	245	675
	355		GA110	85	95	295	675	GA110	60	95	295	675
15/16	250							GA75	75	65	210	660
	280							GA75	75	75	210	660
	315		GA100	100	80	270	755	GA100	75	80	270	755
	355		GA110	100	95	295	755	GA110	75	95	295	755
17/18	315							GA90	75	80	245	725
	355		GA110	100	95	295	790	GA110	75	95	295	790

★ 连接法兰
★★ 联轴器

★ Connexion flange
★★ Coupling

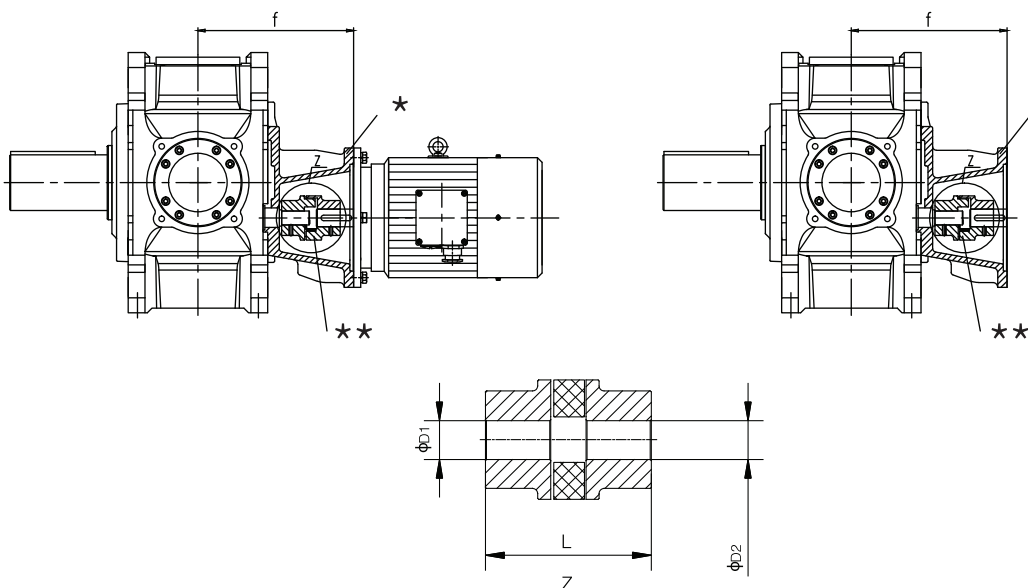
H4



H4			iN≤200 (Size: 7、8、9、10) iN≤224 (Size: 11、12)					iN≥224 (Size: 7、8、9、10) iN≥250 (Size: 11、12)				
Size	Y Motor	F Flange	Coupling				f	Coupling				f
			Type	D1	D2	L		Type	D1	D2	L	
7/8	132		GA42	30	38	126	335	GA42	24	38	126	335
	160		GA55	30	42	160	385	GA55	24	42	160	385
	180		GA55	30	48	160	385	GA55	24	48	160	385
9/10	132		GA42	35	38	126	370	GA42	28	38	126	370
	160		GA55	35	42	160	420	GA55	28	42	160	420
	180		GA55	35	48	160	420	GA55	28	48	160	420
	200		GA65	35	55	185	435	GA65	28	55	185	435
	225		GA65	35	60	185	465	GA65	28	60	185	465
11/12	160							GA55	32	42	160	480
	180		GA55	45	48	160	480	GA55	32	48	160	480
	200		GA65	45	55	185	490	GA65	32	55	185	490
	225		GA65	45	60	185	510	GA65	32	60	185	510
	250		GA75	45	65	210	515					

★ 连接法兰
★★ 联轴器

★ Connnection flange
★★ Coupling

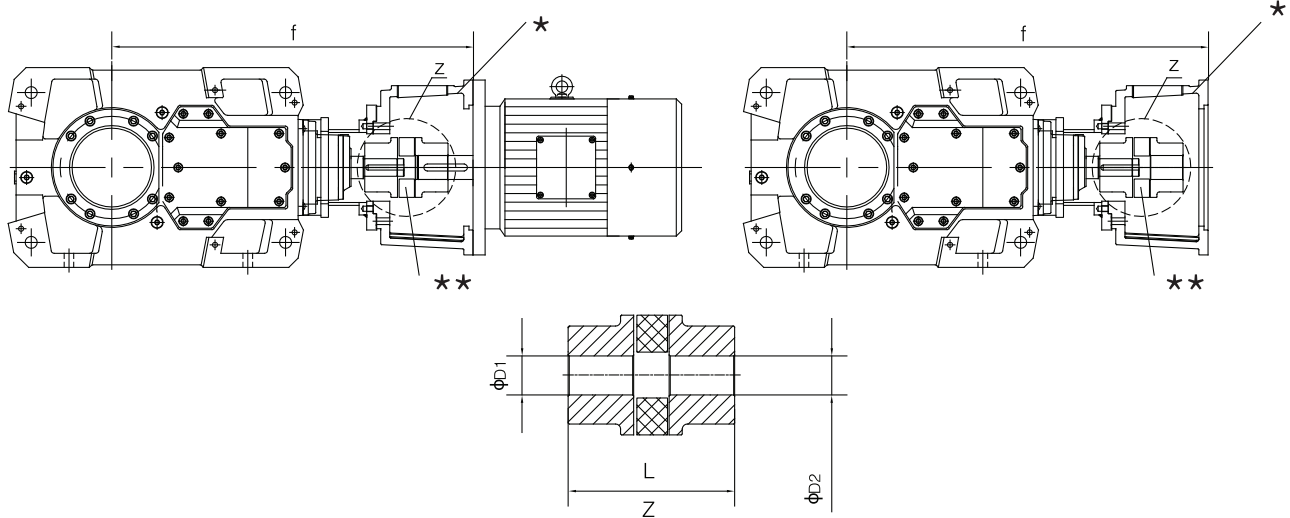


H4			iN≤224 (Size : 13、14、15、16、18) iN≤200 (Size : 17)					iN≥250 (Size : 13、14、15、16、18) iN≥224 (Size : 17)				
Size	M Motor	F Flange	Coupling				f	Coupling				f
			Type	D1	D2	L		Type	D1	D2	L	
13/14	160							GA55	38	42	160	510
	180							GA55	38	48	160	510
	200		GA65	50	55	185	535	GA65	38	55	185	535
	225		GA65	50	60	185	565	GA65	38	60	185	565
	250		GA75	50	65	210	570	GA75	38	65	210	570
	280		GA75	50	75	210	570					
15/16	200							GA65	50	55	185	575
	225		GA65	60	60	185	635	GA65	50	60	185	635
	250		GA75	60	65	210	635	GA75	50	65	210	635
	280		GA75	60	75	210	635	GA75	50	75	210	635
17/18	225							GA65	50	60	185	640
	250							GA75	50	65	210	670
	280		GA75	60	75	210	670	GA75	50	75	210	670
	315		GA90	60	80	245	700	GA90	50	80	245	700

★ 连接法兰
★★ 联轴器

★ Connnection flange
★★ Coupling

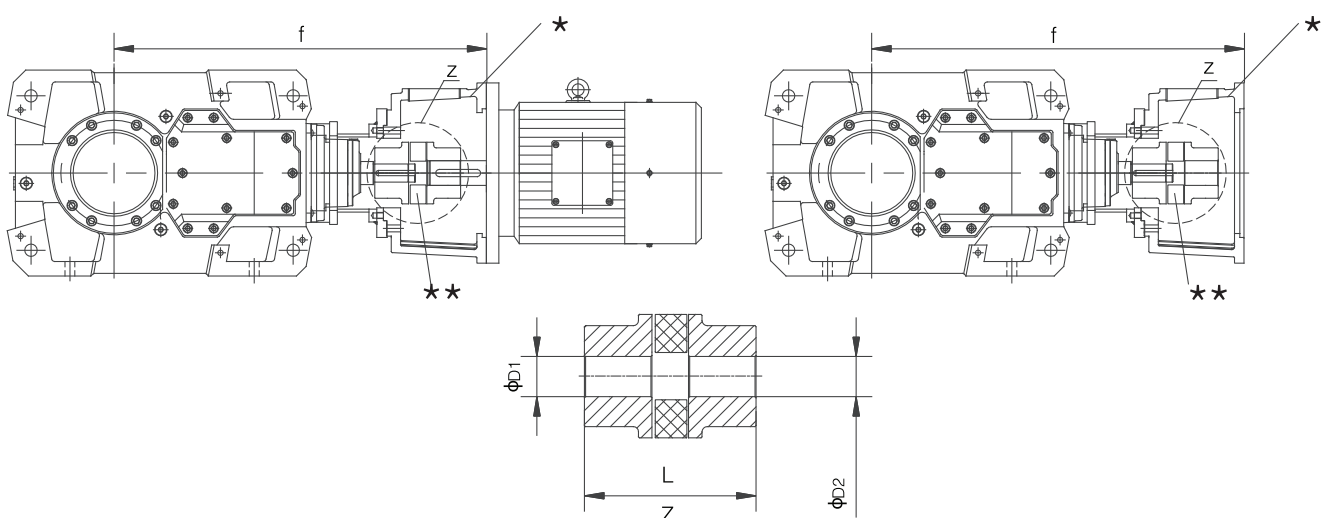
B3



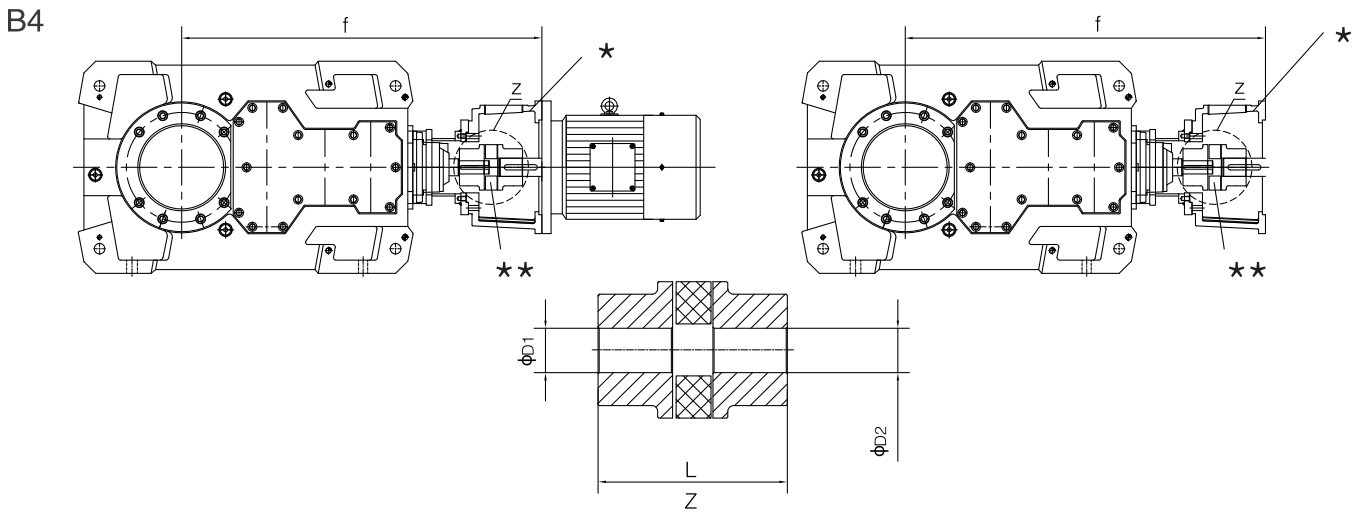
B3			iN≤63					iN≥71				
Size	Y Motor	F Flange	Coupling				f	Coupling				f
			Type	D1	D2	L		Type	D1	D2	L	
4	132							GA42	30	38	126	664
	160		GA55	35	42	160	718	GA55	30	42	160	718
	180		GA55	35	48	160	718	GA55	30	48	160	718
	200		GA65	35	55	185	724					
5	160		GA55	45	42	160	812	GA55	35	42	160	812
	180		GA55	45	48	160	812	GA55	35	48	160	812
	200		GA65	45	55	185	818	GA65	35	55	185	818
	225		GA65	45	60	185	848					
6	160		GA55	45	42	160	847	GA55	35	42	160	847
	180		GA55	45	48	160	847	GA55	35	48	160	847
	200		GA65	45	55	185	853	GA65	35	55	185	853
	225		GA65	45	60	185	883					
7	160							GA55	40	42	160	923
	180							GA55	40	48	160	923
	200		GA65	50	55	185	932	GA65	40	55	185	932
	225		GA65	50	60	185	962	GA65	40	60	185	962
	250		GA75	50	65	210	965	GA75	40	65	210	965
	280		GA75	50	75	210	965					
8	160							GA55	40	42	160	968
	180							GA55	40	48	160	968
	200		GA65	50	55	185	977	GA65	40	55	18	977
	225		GA65	50	60	185	1007	GA65	40	60	185	1007
	250		GA75	50	65	210	1010	GA75	40	65	210	1010
	280		GA75	50	75	210	1010					
9	200							GA65	50	55	185	1067
	225		GA65	60	60	185	1097	GA65	50	60	185	1097
	250		GA75	60	65	210	1100	GA75	50	65	210	1100
	280		GA75	60	75	210	1100	GA75	50	75	210	1100
10	200							GA65	50	55	185	1117
	225		GA65	60	60	185	1147	GA65	50	60	185	1147
	250		GA75	60	65	210	1150	GA75	50	65	210	1150
	280		GA75	60	75	210	1150	GA75	50	75	210	1150
11	225							GA65	60	60	185	1267
	250		GA75	75	65	210	1270	GA75	60	65	210	1270
	280		GA75	75	75	210	1270	GA75	60	75	210	1270
12	225							GA65	60	60	185	1337
	250		GA75	75	65	210	1340	GA75	60	65	210	1340
	280		GA75	75	75	210	1340	GA75	60	75	210	1340

★ 连接法兰
★★ 联轴器

★ Connection flange
★★ Coupling



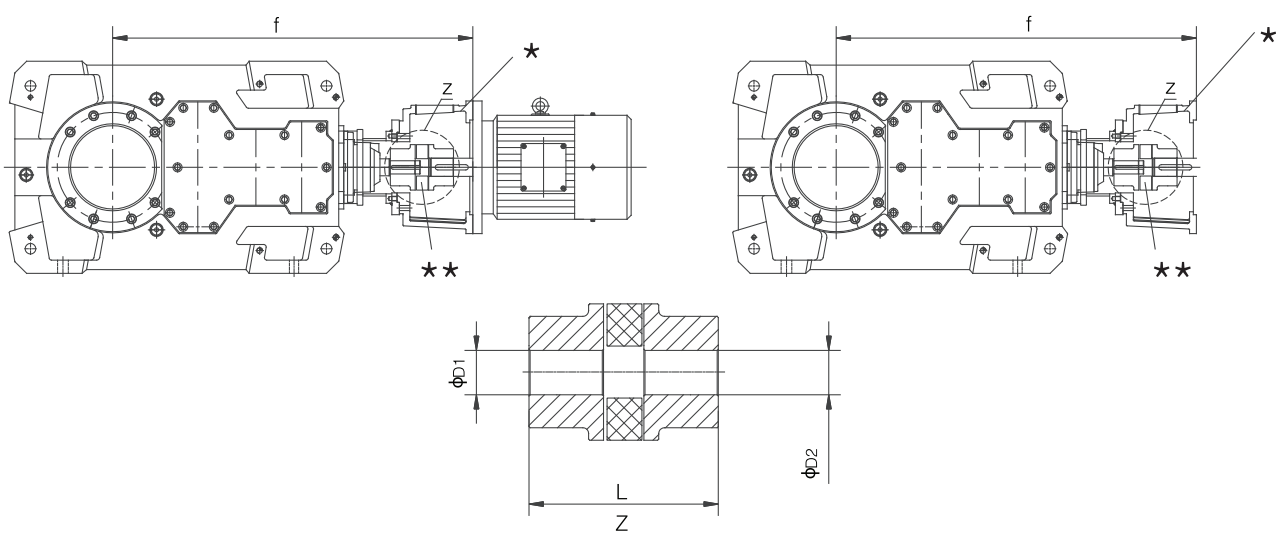
B3			iN≤63 (Size :13、14、15、16、18) iN≤56 (Size :17)					iN≥71 (Size :13、14、15、16、18) iN≥63 (Size :17)				
Size	M Motor	F Flange	Coupling				f	Coupling				f
			Type	D1	D2	L		Type	D1	D2	L	
13	250							GA75	70	65	210	1420
	280							GA75	70	75	210	1420
	315		GA90	85	80	245	1474	GA90	70	80	245	1474
	355		GA110									



B4			iN≤250 (Size: 9、10) iN≤280 (Size: 5、6、7、8、11、12)				iN≥280 (Size: 9、10) iN≥315 (Size: 5、6、7、8、11、12)					
Size	Y Motor	F Flange	Coupling				f	Coupling				f
			Type	D1	D2	L		Type	D1	D2	L	
5	132		GA42	35	38	126	784	Ga42	25	38	126	784
	160		GA55	35	42	160	837					
6	132		GA42	35	38	126	819	GA42	25	38	126	819
	160		GA55	35	42	160	872					
7	132		GA42	35	38	126	889	GA42	30	38	126	889
	160		GA55	35	42	160	943	GA55	30	42	160	943
	180		GA55	35	48	160	943	GA55	30	48	160	943
8	200		GA65	35	55	185	949					
	132		GA42	35	38	126	934	GA42	30	38	126	934
	160		GA55	35	42	160	988	GA55	30	42	160	988
	180		GA55	35	48	160	988	GA55	30	48	160	988
9	200		GA65	35	55	185	994					
	132							GA42	35	38	126	1023
	160		GA55	45	42	160	1077	GA55	35	42	160	1077
	180		GA55	45	48	160	1077	GA55	35	48	160	1077
	200		GA65	45	55	185	1083					
10	225		GA65	45	60	185	1113					
	132							GA42	35	38	126	1073
	160		GA55	45	42	160	1127	GA55	35	42	160	1127
	180		GA55	45	48	160	1127	GA55	35	48	160	1127
	200		GA65	45	55	185	1133					
11	225		GA65	45	60	185	1163					
	160							GA55	40	42	160	1243
	180		GA55	50	48	160	1244	GA55	40	48	160	1243
	200		GA65	50	55	185	1252	GA65	40	55	185	1252
	225		GA65	50	60	185	1282	GA65	40	60	185	1282
	250		GA75	50	65	210	1285					
12	280		GA75	50	75	210	1285					
	160							GA55	40	42	160	1313
	180		GA55	50	48	160	1314	GA55	40	48	160	1313
	200		GA65	50	55	185	1322	GA65	40	55	185	1322
	225		GA65	50	60	185	1352	GA65	40	60	185	1352
	250		GA75	50	65	210	1355					
12	280		GA75	50	75	210	1355					

★ 连接法兰
★★ 联轴器

★ Connection flange
★★ Coupling



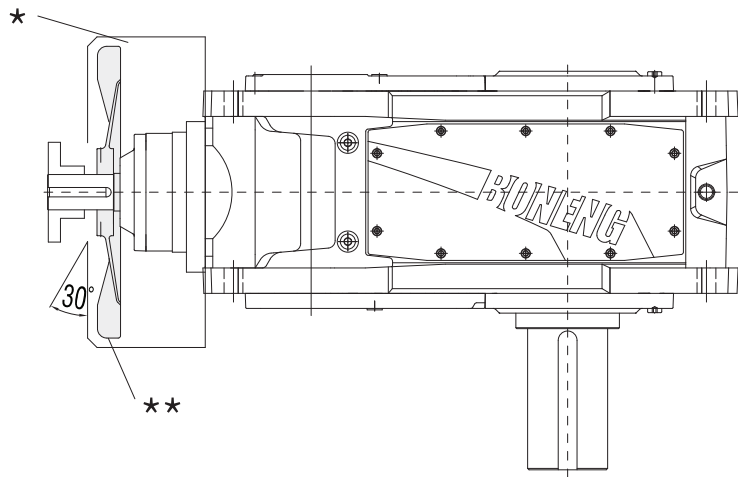
B4			iN≤280 (Size : 13、14、15、16、18) iN≤250 (Size : 17)				iN≥315 (Size : 13、14、15、16、18) iN≥280 (Size : 17)					
Size	M Motor	F Flange	Coupling				f	Coupling				f
			Type	D1	D2	L		Type	D1	D2	L	
13	180							GA55	50	48	160	1429
	200		GA65	60	55	185	1437	GA65	50	55	185	1437
	225		GA65	60	60	185	1467	GA65	50	60	185	1467

16 附件

16.1冷却风扇(附件代号:UF21)

16 Accessory

16.1 Cooling fan (Accessory code:UF21)



★ 风扇罩
★★ 冷却风扇

★ Fan cover
★★ Cooling fan

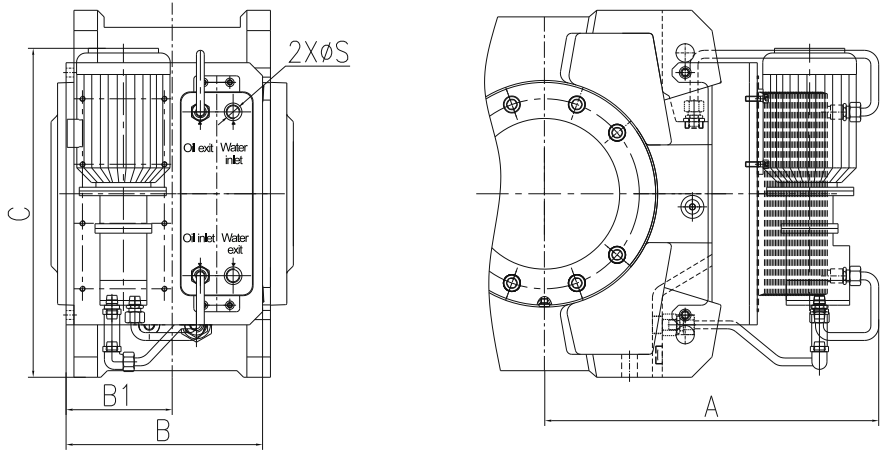
16.2 水油冷却器(附件代号:UC22)

16.2.1 卧式安装

16.2 Water oil cooler (Accessory code:UC22)

16.2.1 Horizontal mounting

H2..H,H3..H,B2..H,B3..H

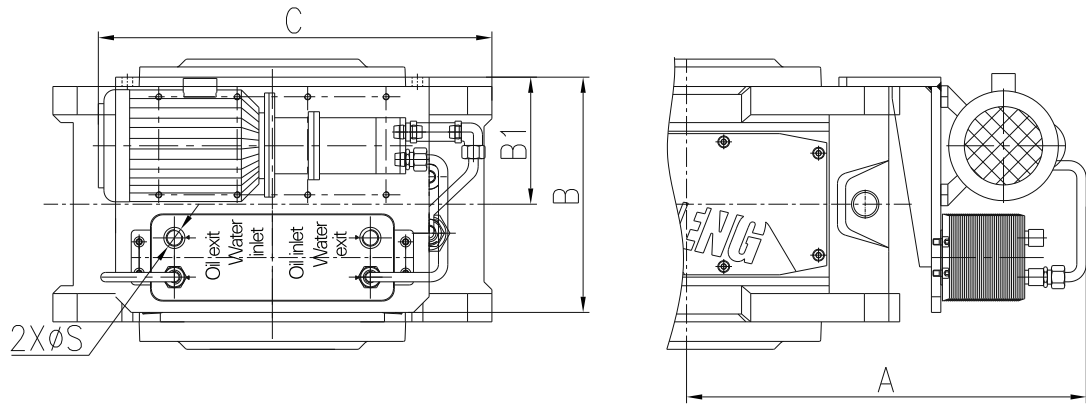


Size	A	B	B1	C	S	Water quantity (L/min)
04	435	225	117.5	429	G1/2	5
05	480	265	139.5	452	G1/2	5
06	525	265	139.5	452	G1/2	5
07	510	306	162	502	G1/2	5
08	580	306	162	502	G1/2	5
09	545	360	201	602	G1/2	5
10	595	360	201	602	G1/2	5
11	585	360	231	670	G1/2	5
12	670	360	231	670	G1/2	5
13	772	405	288.5	714	G1/2	10
14	842	405	288.5	714	G1/2	10
15	883	405	326	774	G1/2	10
16	925	405	326	774	G1/2	10
17	929	405	356	849	G1/2	14
18	989	405	356	849	G1/2	14

16.2.2 立式安装

16.2.2 Vertical mounting

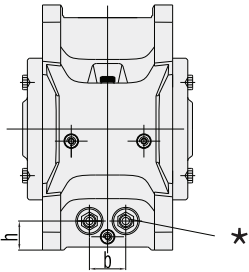
H2..V,H3..V,B2..V,B3..V



Size	A	B	B1	C	S	Water quantity (L/min)
04	435	225	117.5	429	G1/2	5
05	480	265	139.5	452	G1/2	5
06	525	265	139.5	452	G1/2	5
07	510	306	162	502	G1/2	5
08	580	306	162	502	G1/2	5
09	545	360	201	602	G1/2	5
10	595	360	201	602	G1/2	5
11	585	360	231	670	G1/2	5
12	670	360	231	670	G1/2	5
13	772	405	288.5	714	G1/2	10
14	842	405	288.5	714	G1/2	10
15	883	405	326	774	G1/2	10
16	925	405	326	774	G1/2	10
17	929	405	356	849	G1/2	14
18	989	405	356	849	G1/2	14

16.3 齿轮箱内置冷却
盘管(附件代号:UC21)
16.3.1 卧式安装

16.3 Cooling coil
(Accessory code:UC21)
16.3.1 Horizontal mounting

H2..H,H3..H,B2..H,B3..H															
															
Type	H2. . H / B3. . H					H3. . H					B2. . H				
	b	e	h	s	Water quantity (L/min)	b	e	h	s	Water quantity (L/min)	b	e	h	s	Water quantity (L/min)
04	60	192	48	G1/2	6	-	-	-	-	-	60	192	48	G1/2	10
05	70	206	64	G1/2	6	70	200	64	G1/2	6	70	211	64	G1/2	10
06	70	254	55	G1/2	6	70	246	55	G1/2	6	70	253	55	G1/2	10
07	70	236	80	G1/2	6	70	236	80	G1/2	6	70	241	80	G1/2	10
08	70	283	75	G1/2	6	70	283	75	G1/2	6	70	293	75	G1/2	10
09	70	267.5	70	G1/2	10	70	267.5	70	G1/2	6	70	267.5	70	G1/2	10
10	70	316	70	G1/2	10	70	316	70	G1/2	6	70	316	70	G1/2	10
11	70	296	90	G1/2	10	70	296	90	G1/2	10	70	302	90	G1/2	10
12	70	381	90	G1/2	10	70	381	90	G1/2	10	70	386	90	G1/2	10
13	150	386	120	G1/2	10	150	386	120	G1/2	10	150	386	120	G1/2	10
14	150	456	120	G1/2	10	150	446	120	G1/2	10	150	446	120	G1/2	10
15	200	439	120	G1/2	10	200	424	120	G1/2	10	200	424	120	G1/2	10
16	200	494	120	G1/2	10	200	494	120	G1/2	10	200	494	120	G1/2	10
17	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

★ 冷却盘管接口尺寸

★ Cooling coil water connection

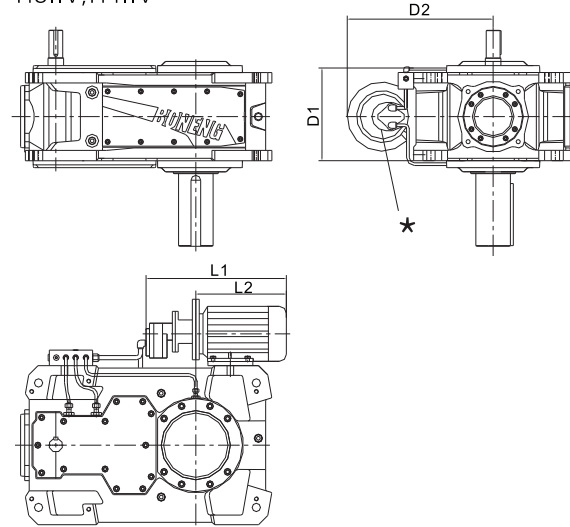
16.3.2 立式安装

16.3.2 Vertical mounting

H2..V,H3..V,B2..V,B3..V															
															
Type	H2. . V / B3. . V					H3. . V					B2. . V				
	b	e	h2	s2	Water quantity (L/min)	b	e	h2	s2	Water quantity (L/min)	b	e	h2	s2	Water quantity (L/min)
04	60	192	152	G1/2	6	-	-	-	-	-	60	192	152	G1/2	10
05	70	206	166	G1/2	6	70	200	166	G1/2	6	70	211	166	G1/2	10
06	70	254	175	G1/2	6	70	246	175	G1/2	6	70	253	175	G1/2	10
07	70	236	200	G1/2	6	70	236	200	G1/2	6	70	241	200	G1/2	10
08	70	283	205	G1/2	6	70	283	205	G1/2	6	70	293	205	G1/2	10
09	70	267.5	250	G1/2	10	70	267.5	250	G1/2	6	70	267.5	250	G1/2	10
10	70	316	250	G1/2	10	70	316	250	G1/2	6	70	316	250	G1/2	10
11	70	296	290	G1/2	10	70	296	290	G1/2	10	70	302	290	G1/2	10
12	70	381	290	G1/2	10	70	381	290	G1/2	10	70				

16.4 电机油泵强制 润滑(附件代号:US32)

H3..V,H4..V

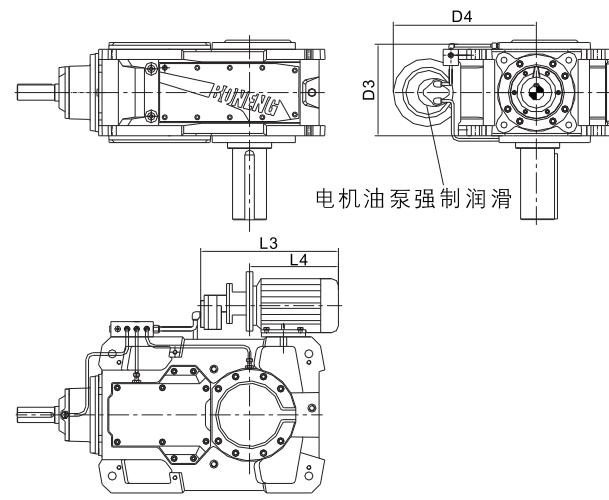


★ 电机油泵强制润滑

Mounting dimension						
Type	Size	Shaft assemblies	L2	L1	D2	D1
H2...V	04	A+B+C+D+E+F+G+H+I	210	356	361	228
	05/06	A+B+C+D+E+F+G+H+I	262/307	406	422	268
	07/08	A+B+C+D+E+F+G+H+I	292/352	406	472	315
	09/10	A+B+C+D+E+F+G+H+I	317/367	406	512	383
	11/12	A+B+C+D+E+F+G+H+I	342/406	406	572	448
H3...V	05/06	A+B+C+D+E+F+G+H+I	262/307	406	422	268
	07/08	A+B+C+D+E+F+G+H+I	292/352	406	472	315
	09/10	A+B+C+D+E+F+G+H+I	317/367	406	512	383
	11/12	A+B+C+D+E+F+G+H+I	342/406	406	572	448
H4...V	07/08	A+B+C+D+E+F+G+H+I	292/352	406	472	315
	09/10	A+B+C+D+E+F+G+H+I	317/367	406	512	383
	11/12	A+B+C+D+E+F+G+H+I	342/406	406	572	448
H2...V	13/14	A+B+C+D+E+F+G+H+I	484/554	456	642	566
	15/16	A+B+C+D+E+F+G+H+I	544/589	456	702	640
	17/18	A+B+C+D+E+F+G+H+I	569/629	460	752	701
H3...V	13/14	A+B+C+D+E+F+G+H+I	484/554	456	642	566
	15/16	A+B+C+D+E+F+G+H+I	544/589	456	702	640
	17/18	A+B+C+D+E+F+G+H+I	569/629	460	752	701
H4...V	13/14	A+B+C+D+E+F+G+H+I	484/554	456	642	566
	15/16	A+B+C+D+E+F+G+H+I	544/589	456	702	640
	17/18	A+B+C+D+E+F+G+H+I	569/629	460	752	701

16.4 Motor oil pump forced lubrication(Accessory code:US32)

B2..V,B3..V,B4..V



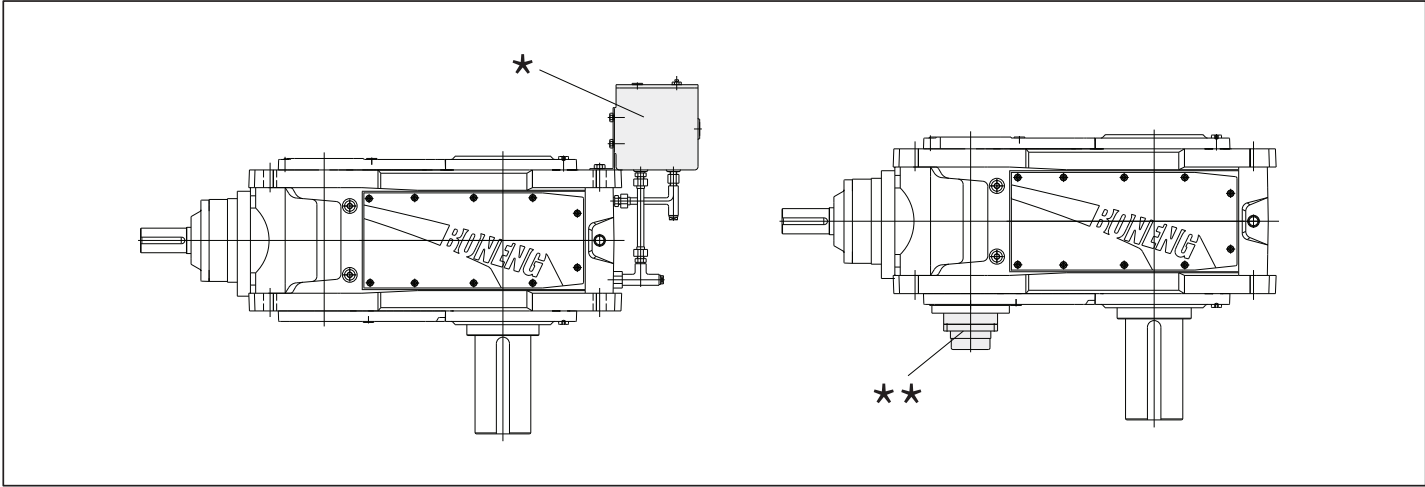
电机油泵强制润滑

★ Motor oil pumpforced
lubrication

Mounting dimension						
Type	Size	Shaft assemblies	L4	L3	D4	D3
B2...V	04	A+B+C+D+E+F+G+H+I	210	356	361	263
	05/06	A+B+C+D+E+F+G+H+I	262/307	406	422	313
	07/08	A+B+C+D+E+F+G+H+I	292/352	406	472	370
	09/10	A+B+C+D+E+F+G+H+I	317/367	406	512	438
	11/12	A+B+C+D+E+F+G+H+I	342/406	406	572	513
B3...V	04	A+B+C+D+E+F+G+H+I	210	356	361	228
	05/06	A+B+C+D+E+F+G+H+I	262/307	406	422	268
	07/08	A+B+C+D+E+F+G+H+I	292/352	406	472	315
	09/10	A+B+C+D+E+F+G+H+I	317/367	406	512	383
	11/12	A+B+C+D+E+F+G+H+I	342/406	406	572	448
B4...V	05/06	A+B+C+D+E+F+G+H+I	262/307	406	422	268
	07/08	A+B+C+D+E+F+G+H+I	292/352	406	472	315
	09/10	A+B+C+D+E+F+G+H+I	317/367	406	512	383
	11/12	A+B+C+D+E+F+G+H+I	342/406	406	572	

16.6 补偿油箱(附件代号:US33)
与轴端油泵(附件代号:US31)

16.6 Oil compensation tank
(Accessory code:US33)and shaft
end oil pump (Accessory code:US31)



★ 补偿油箱
★★ 轴端油泵
选型时需提供输入转速

★ Oil compensating tank
★★ Shaft end oil pump Running speed should
be provided for selection

输入转速限制		Input speed limit	
Type	Size	US33	US31
		n1<	n1>
H2. . V	04-12	1500	900
H3. . V	05-12	1500	1200
H4. . V	07-12	1800	1200
B2. . V	04-12	1500	1200
B3. . V	04-12	1500	1200
B4. . V	05-12	1800	1200

16.7润滑油
16.7.1 油量表

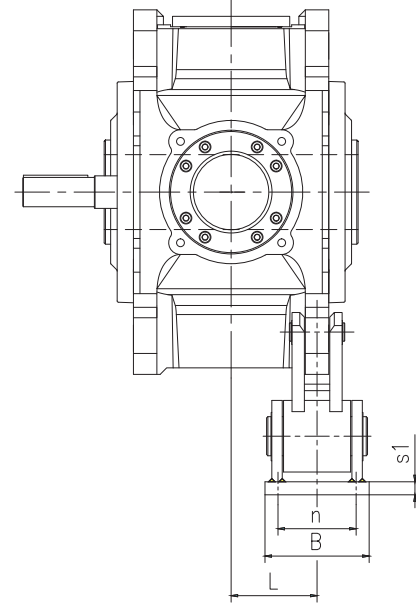
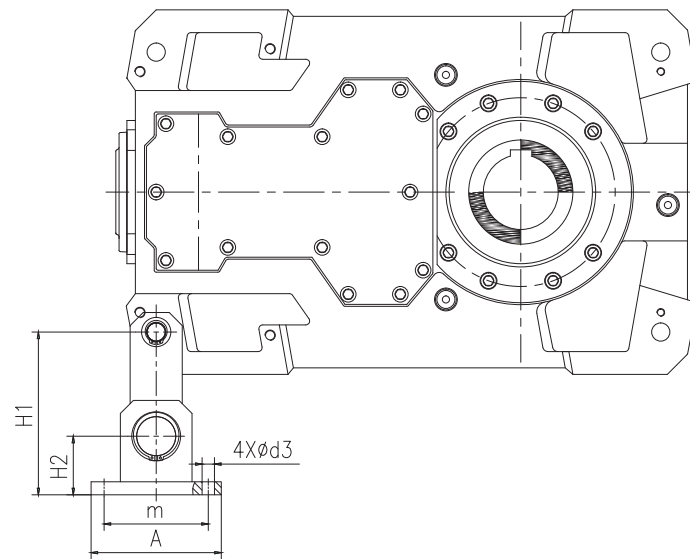
16.7 Lubrication oil
16.7.1 Oil quantity

Oil Quantity Table (L)																		
Size	H2. . H	H3. . H	H4. . H	B2. . H	B3. . H	B4. . H	H2. . V		H3. . V		H4. . V		B2. . V		B3. . V		B4. . V	
	①	①	①	①	①	①	②	③	②	③	②	③	②	③	②	③	②	③
04	10	—	—	10	9	—	25	—	—	—	—	—	28	—	28	—	—	—
05	15	15	—	16	14	16	23	10	35	13	—	—	41	20	32	12	36	15
06	16	17	—	19	15	18	27	11	37	15	—	—	50	23	35	13	40	16
07	27	28	25	31	25	30	58	22	60	25	50	20	75	35	52	22	60	30
08	30	30	27	34	28	33	62	25	72	30	60	25	90	38	67	28	70	35
09	42	45	48	48	40	48	100	42	100	40	95	38	115	53	115	48	110	60
10	45	46	50	50	42	50	110	46	110	45	110	45	135	60	125	52	130	67
11	71	85	80	80	66	80	160	60	170	66	165	65	190	86	180	75	180	75
12	76	90	87	95	72	90	180	70	190	75	180	75	215	95	200	85	195	85

Oil Quantity Table (L)																		
Size	H2. . H	H3. . H	H4. . H	B2. . H	B3. . H	B4. . H	H2. . V		H3. . V		H4. . V		B2. . V		B3. . V		B4. . V	
	①	①	①	①	①	①	③		③									

16.8 扭力臂(附件代号:UT61)

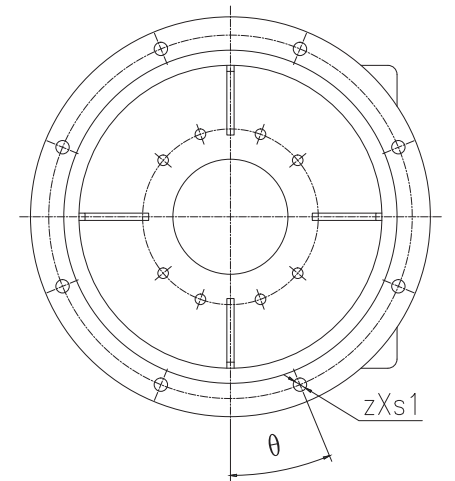
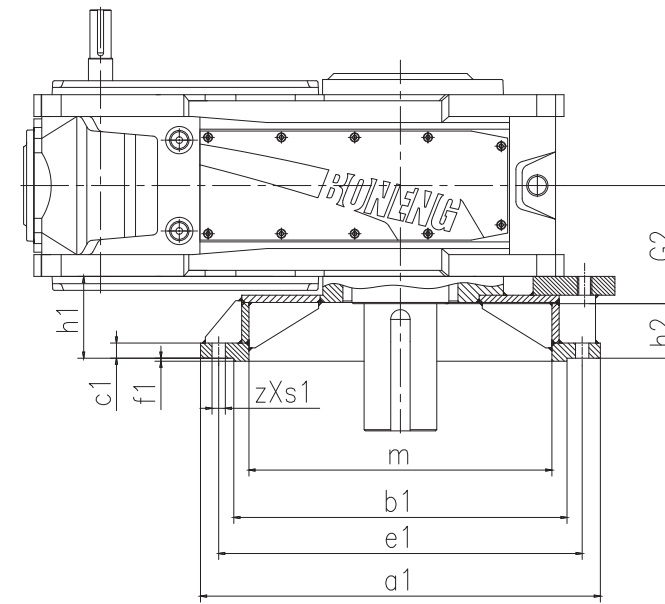
16.8 Torque arm (Code:UT61)



Size	A	B	φ d3	H1	H2	m	n	s1	L		Weight (kg)
									B2	B3/B4/H2/H3/H4	
04	160	110	19	200	65	120	70	15	120	92.5	7.4
05	160	110	19	200	65	120	70	15	145	112.5	7.6
06	160	110	19	200	65	120	70	15	145	112.5	7.6
07	200	160	19	250	90	160	120	20	172	132	19.9
08	200	160	19	250	90	160	120	20	172	132	19.9
09	200	160	19	250	90	160	120	20	196	162.5	19.3
10	200	160	19	250	90	160	120	20	196	162.5	19.3
11	320	280	19	360	130	260	130	25	238	188	53.6
12	320	280	19	360	130	260	130	25	238	188	53.6
13	320	280	19	360	130	260	130	25	272.5	220	73.1
14	320	280	19	360	130	260	130	25	272.5	220	73.1
15	400	300	24	455	160	320	240	30	317.5	247.5	117.7
16	400	300	24	455	160	320	240	30	317.5	247.5	117.7
17	400	300	24	455	160	320	240	30	370	272.5	117.7
18	400	300	24	455	160	320	240	30	370	272.5	117.7

16.9 输出安装法兰
(附件代号:UF32)

16.9 Outpt mounting flange
(Code:UF32)



Size	a1	b1	c1	e1	f1	G2	h2	m	θ	zxs1	h1		Weight (kg)

16.10 附件代号一览表

16.10 Accessories code table

代号 Code	附件 Accessories	示例 Example
UB11	逆止器 Backstop	
UC22	水油冷却器 Water-Oil cooler	
UF21	冷却风扇 Cooling fan	
UF31	输入连接法兰 Input connection flange	
US31	轴端油泵强制润滑 Shaft end oil pump forced lubrication	
US32	电机油泵强制润滑 Motor oil pump forced lubrication	
US33	补偿油箱浸油润滑 Oil compensation tank dip-in oil lubrication	
UV32	润滑油 VG320 Lubrication oil VG320	

代号 Code	附件 Accessories	示例 Example
敬请垂询 Please consult	扭力臂 UT61 Torque arm UT61	
	齿轮箱浮动底座 Gear box swing base	
	浮动底座扭力臂 Swing base with torque arm	
	安装法兰 UF32 Mounting flange UF32	
	外置风冷式油冷却器UC23 External wind air-oil cooler UC23	
	配管路(客户带稀油站) Pipeline(Customer build oil station)	
	配稀油站 Oil station	
	竖直安装 Upright mounting	
	电加热器 Electric heater	
	其他类型的轴封 Shaft sealing of other categories	

随着技术迭代进步，博能产品样本将会同步更新，请见谅。
Along with the technology advancedet.,the product of the manual of Boneng will be changed,please forgive.

博能产品集成图

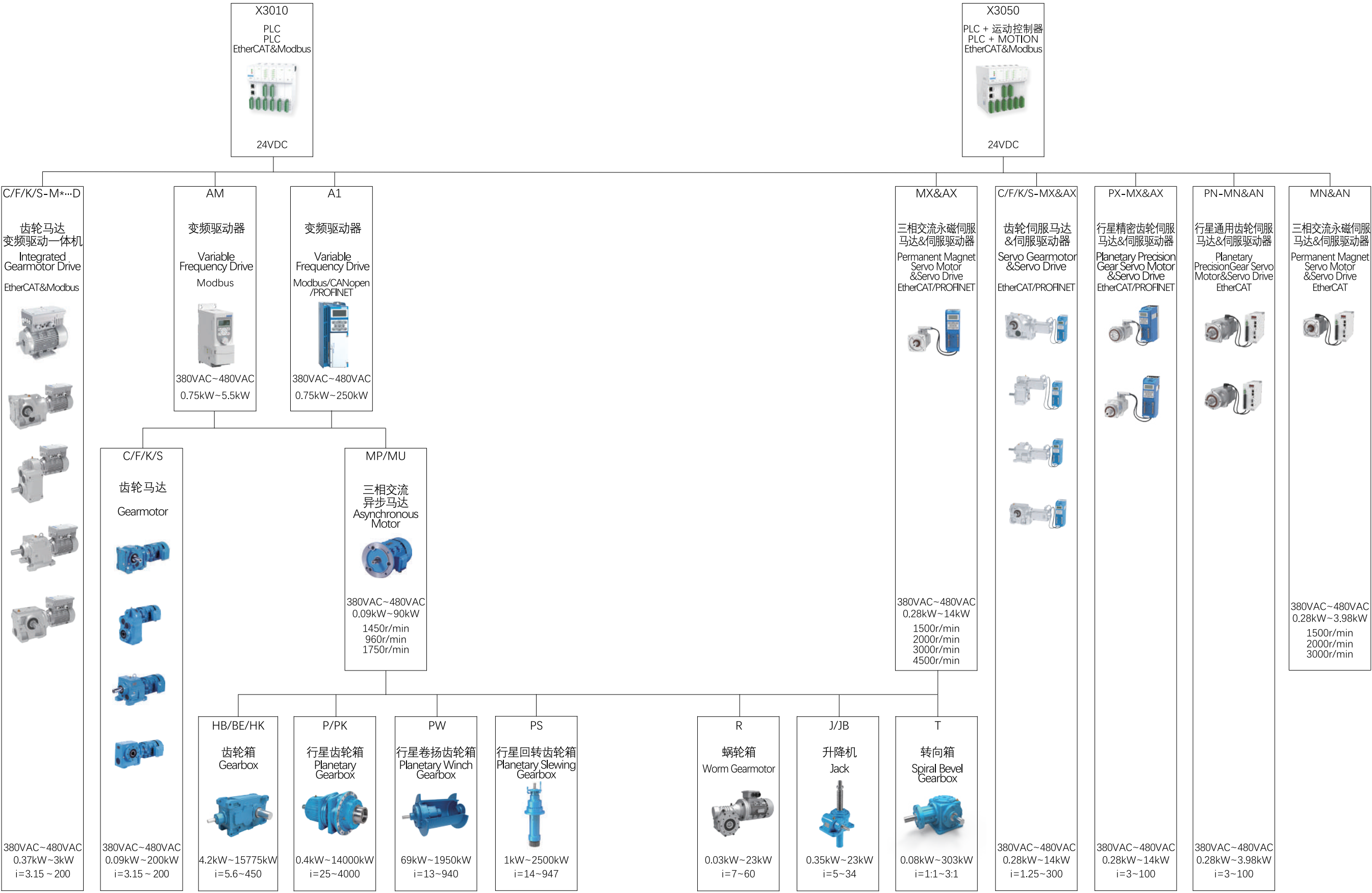
Boneng Product Integration Diagram

CONTROL
控制层

DRIVE
驱动层

MOTOR
马达层

GEAR
齿轮层



博能传动(沈阳)有限公司	BONENG TRANSMISSION(SHENYANG)CO.,LTD.
沈阳市沈北新区 太平洋工业城A区A73-6号 电话：024-31271571	No. A73-6, Area A, Pacific Industrial City, Shenbei New District, Shenyang, Liaoning Province, China TEL: 024-31271571

博能传动(天津)有限公司	BONENG TRANSMISSION(TIANJIN)CO.,LTD.
天津市北辰区双海道6号 宏鹏工业园7号车间 电话：022-26929556	7th Workshop, Hongpeng Industrial Park, No. 6 Shuanghai Road, Beichen District, Tianjin City,China TEL: 022-26929556

博能传动(潍坊)有限公司	BONENG TRANSMISSION(WEIFANG)CO.,LTD.
山东省潍坊市安丘市经济开发区 汶水路与昆仑大街交叉口往北 100米路东1号车间 电话：0536-2141166	1st Workshop, Economic Development Zone, Anqiu, Weifang City, Shandong Province, China TEL: 0536-2141166

博能传动(开封)有限公司	BONENG TRANSMISSION(KAIFENG)CO.,LTD.
河南省开封市宋城路四大街11号 海神机械院内五号厂房 电话：0371-23335238	5th Workshop, Haishen Machinery, No.11, Fourth Street, Songcheng Road,New District, Kaifeng City, Henan Province, China TEL: 0371-23335238

博能传动(长沙)有限公司	BONENG TRANSMISSION(CHANGSHA)CO.,LTD.
湖南省长沙市望城经济开发区 普瑞大道1288号 电话：0731-88386958	No. 1288 Puri Avenue, Wangcheng Economic Development Zone, Changsha City, Hunan Province, China TEL: 0731-88386958

博能传动(苏州)有限公司	BONENG TRANSMISSION(SUZHOU)CO.,LTD.
江苏省苏州市相城区如元路100号 电话：0512-66189662	No. 100, Ruyuan Road, Xiangcheng District, Suzhou, Jiangsu Province, China TEL: 0512-66189662

博能传动(美国)有限公司	BONENG TRANSMISSION(USA)LLC.
1250 E 222nd Euclid, OH 44117, United Staes TEL: 1-216-618-3099 TEL: 1-216-618-0138	1250 E 222nd Euclid, OH 44117, United Staes TEL: 1-216-618-3099 TEL: 1-216-618-0138

博能传动(印度)有限公司	BONENG TRANSMISSION(INDIA)PVT.LTD
Plot No. E-10/3, MIDC sinnar (Malegaon) Industrial Area, Nashik, 422123, Maharashtra, India. TEL:+91-11- 4507 6293 (DELHI) TEL:+91-22-2781 3385 (MUMBAI)	Plot No. E-10/3, MIDC sinnar (Malegaon) Industrial Area, Nashik, 422123, Maharashtra, India. TEL:+91-11- 4507 6293 (DELHI) TEL:+91-22-2781 3385 (MUMBAI)