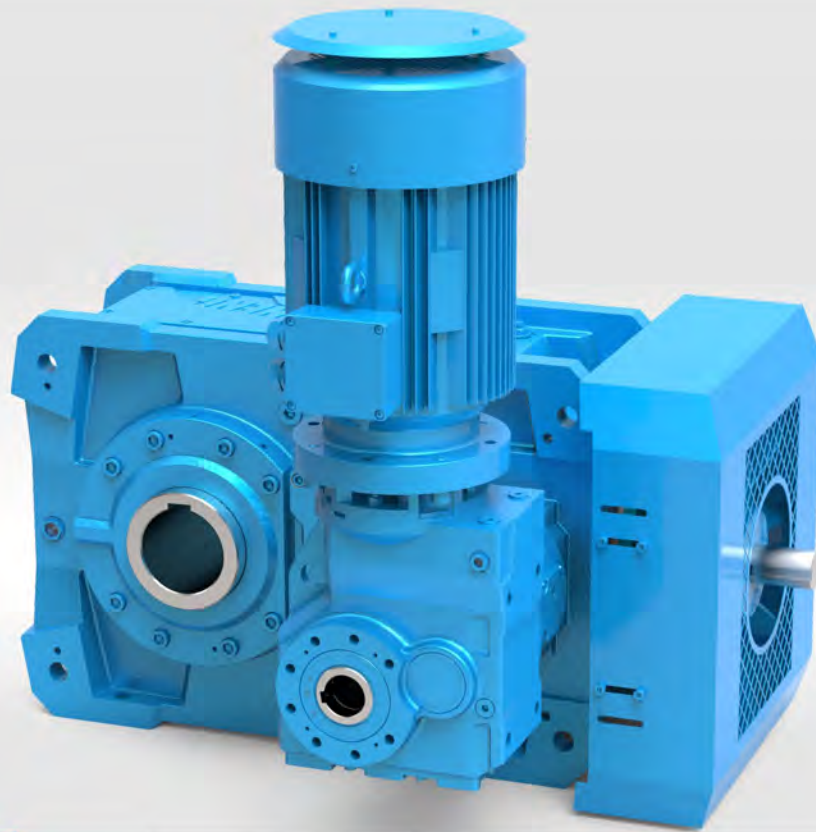


BONENG



BE Bucket Elevator Drives
4-12



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目 录 Contents

1 概述	2
Overview	
2 产品功能标识	2
Product function mark	
3 选型	3
Type selection	
4 服务系数	4
Service factors	
5 型号表示方法	4
Type designation	
6 常用代号说明	5
Common code instruction	
7 辅助参数	5
Auxiliary parameter	
8 选型举例	6
Selection example	
9 传动能力表	7
Transmission capacity table	
10 额定热容量	9
Rated thermal capacities	
11 外形尺寸图表	11
Outline dimensions	
12 建议输出联结尺寸图表	13
Recommended output connection dimensions	
13 平键与键槽的尺寸	15
Parallel keys and keyway dimensions	
14 轴端中心孔	16
Central hole in shaft end	
15 润滑油	16
Lubrication oil	



1 概述:

博能齿轮箱以优质的服务和稳定的质量赢得了国内外用户的广泛赞誉,可应用于带式输送机、刮板输送机、斗式输送机、悬挂输送机、螺旋输送机、辊式输送机、振动输送机等各种输送机设备的驱动机构中,在水泥、港口、矿山、冶金、建筑、化工等行业都取得了显著的业绩。

BE系列齿轮箱是根据斗式输送机的使用工况和传动特点而专门设计的一款齿轮箱,为国内外斗提机制造商首选配套产品,并已在斗提机行业取得良好业绩。BE系列齿轮箱存在以下特点:

- ◆主传动和辅助传动一体化设计,结构紧凑,主、辅助驱动可以通过电控自动切换,远程控制不需要额外人力动作,方便用户安装和调试。
- ◆辅助传动可以满足用户维护和检修时的需要。【但维护和检修时必须空载(清空设备料仓)的情况下方可启动运行】。
- ◆主齿轮箱配有逆止装置,可防止设备停车或故障时倒转。
- ◆主齿轮箱为3级传动,减速比范围20-90,也可以根据客户需求,提供更大速比的齿轮箱。
- ◆可以采用底脚或轴装式结构安装,并按实际使用工况配有防雨罩、防护罩、防位移端板等附件。
- ◆选用高品质进口逆止器和超越离合器,其体积小,安全系数高。
- ◆模块化设计,国际化生产,交货更加快捷。
- ◆氟橡胶密封,具有优异的耐高温、防老化性能,在复杂和恶劣的工作环境中具有更高的安全性和更长的使用寿命。

⚠ 注:1.主齿轮箱与辅传齿轮箱,以及离合器法兰内都需分别加注足量润滑油。只有确认加注足量润滑油后才能启动齿轮箱。

2.样本中未注尺寸单位均为毫米(mm)。

2 产品功能标识

 油镜 Oil Immersion Lens	 通气帽 Breather	 进油孔 Oil filler	 放油孔 Oil discharge
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1 Overview:

Boneng gear boxes win wide appreciation of domestic and foreign customers with high-quality service and stable quality. The gear box can be applied in driving mechanisms of belt conveyor, trolley conveyor, scraper conveyor, bucket conveyor, trolley conveyor, screw conveyor, roller conveyor, vibration conveyor and various kinds of conveyors. We have obtained apparent achievements in cement in cement, port, mine, metallurgy, construction and chemical industries.

BE series gear box is a gear box specially designed according to application situation and transmission characteristics of bucket conveyor. It is first-choice mating products for domestic and foreign bucket elevator manufacturers. We have made good achievements in bucket elevator industry. BE series gear box has the following characteristics:

- ◆Main transmission and auxiliary transmission are of integrated design, the structure is compact. Main and auxiliary driving can be automatically switched with electric control. Remote control doesn't need extra manual operation, which is convenient for installation and debugging of users.
- ◆Auxiliary transmission can satisfy customers' requirements during maintenance. (But maintenance can only be done under empty loading (vacuum up equipment material storage)).
- ◆Main gear box is equipped with back stop device. It can prevent reverse rotation when the device stops or has faults.
- ◆Main gear box is 3-level transmission, reduction ratio range is 20-90, we can provide gear box with larger ratio according to customer requirements.
- ◆We can apply footing or axial-installing structure to install and equip rain-proof cover, protection cover, displacement-proof end plate and other auxiliaries according to actual application situations.
- ◆We apply high-quality imported backstop and overrun clutch, the volume is small, safety coefficient is high.
- ◆Modular design, international production, delivery is more rapid and convenient.
- ◆Fluorous rubber sealing, it has high temperature resistance and anti-aging performances. It is more safety and has longer lifespan under complicated and bad working environments.

Note: 1. Main gear box and auxiliary gear box, the internal part of clutch flange should be filled with enough lubrication oil. You can only start the gear box when filling enough lubrication oil.

2. If not marked, the dimension unit in sample is millimeter (mm).

2 Product function mark



3 选型:

3 Type selection:

序号 Serial NO.	说明 Description	代号 Codes	参数计算 Parameter Calculation						
1	被驱动设备系数 Driven machine factor	f ₁	见4页f ₁ 表 See Page 4 f ₁ table						
2	原动机系数 Prime mover factor	f ₂	原动机 Prime mover factor		f ₂				
			电机、液压马达、汽轮机 Electric motors, hydraulic motors, steam turbines		1.0				
			4-6缸活塞发动机, 周期变化1: 100至1: 200 4 - 6 cylinders Piston engines Periodic variation 1 : 100 to 1 : 200		1.25				
			1-3缸活塞发动机, 周期变化1: 100 Piston engines 1 - 3 cylinders cyclic variation up to 1 : 100		1.5				
3	齿轮箱可靠度系数 Gear unit reliability factor	SF	见4页SF表 See P4 SF table						
4	齿轮箱传动效率 Transmission Efficiency	η	三级:94%;3-stage:94%						
5	确定减速比 Calculation of ratio	i	$i = n_1/n_2$						
6	齿轮箱许用输入转速 Permissible input speed	n ₁	≤1500rpm 更高转速请来电咨询 Consult us if higher speed is required.						
7	以被驱动设备所需的扭矩或功率, 确认齿轮箱输入功率 Calculate the input power of the gear unit on basis of the torque and power required by driven machine	P ₁	$P_1 = T_2 \cdot n_1 / (9550 \cdot i \cdot \eta)$ 或 $P_1 = P_2 / \eta$						
8	根据计算, 查传动能力表, 确定齿轮箱规格 Determination of gear unit type referring to the table of transmission capacity	T _{2N} , P _{1N}	$T_{2N} \geq T_2 \cdot f_1 \cdot f_2 \cdot SF$ 或 $P_{1N} \geq P_1 \cdot f_1 \cdot f_2 \cdot SF$						
9	确认输出形式 Determine output mode		输出轴形式及安装方位 Output mode & mounting position						
10	峰值扭矩校核* Check for peak torque	T _A	$P_{1N} \geq T_A \cdot n_1 \cdot f_3 / 9550$	f ₃		每小时峰值负荷次数 Peaks load times per hour			
						1-5	6-30	31-100	> 100
				单向载荷 Unidirectional load		0.5	0.65	0.7	0.75
		交变载荷 Alternating Load		0.7	0.95	1.10	1.25		
11	确认润滑方式、选择润滑油 Determination of lubrication methods and lubricants		卧式安装 Horizontal Installation						
			可供选择的润滑方式 Optional Lubrication Methods: 1) 飞溅润滑 Splash Lubrication 2) 强制润滑 Forced Lubrication 轴端泵润滑 Shaft-end pump Lubrication 电机油泵润滑 Motor pump Lubrication 用户自备稀油站润滑 User-supplied oil station Lubrication						
12	确认冷却方式 Confirmed Cooling method		1) 如满足以下条件, 则齿轮箱不带辅助冷却装置 Adequate for gear units without auxiliary cooling device, if: $P_1 \leq P_{GA} \cdot f_4 \cdot f_8$ 2) 如满足以下条件, 则齿轮箱带冷却风扇可满足要求, Adequate for gear units with fan cooling, if: $P_1 \leq P_{GA} \cdot f_4 \cdot f_8$						

* 峰值扭矩: 最大负载扭矩, 是指启动、制动或最大脉动载荷所引起的最大扭矩。(一般工况条件下峰值扭矩为启动或制动时的最大扭矩)
* peak torque: maximum load torque, means maximum torque caused by starting, braking or maximum pulsating load. (Peak torque is maximum torque during starting or braking under common conditions.)



4 服务系数:

4 Service Factors:

被驱动设备系数 Factor for driven machine f_1									
被驱动设备 Driven machine		日带载运行时间 (小时/天) Daily running time with load (hour/day)			被驱动设备 Driven machine		日带载运行时间 (小时/天) Daily running time with load (hour/day)		
		≤ 0.5	$> 0.5-10$	> 10			≤ 0.5	$> 0.5-10$	> 10
斗式提升机 Bucket elevator		/	1.4	1.5	刮板输送机 Scraper conveyor		/	1.2	1.5
皮带输送机 Belt conveyor	$\leq 150KW$	1.0	1.2	1.3	螺旋输送机 Screw conveyor		/	1.2	1.5
	$\geq 150KW$	1.1	1.3	1.4	绞车 Hawling winch		1.4	1.6	1.8
					卷扬机 Winch		/	1.5	1.8

齿轮箱可靠度系数 Reliability factor for gear unit S_f		
一般设备, 齿轮箱失效后仅仅引起单机停产, 并且更换零部件比较容易, 损失比较小。 For common machine when gear unit breaks down, only single machine shuts down. Components are easy to change with minor loss.	重要设备, 齿轮箱失效后使生产线或者全厂停工, 停机事故损失比较大。 For important machines, when gear unit breaks down, the production line or the whole plant may shut down, the loss is big.	高可靠度要求, 齿轮箱失效后可能造成重大停产事故, 造成极大的经济损失, 以及人身生命事故。 For high reality requirements, when gear unit breaks down, there maybe severe production problems, thus large economic loss and life accidents maybe caused.
$1.0 \leq S_f \leq 1.3$	$1.3 < S_f \leq 1.5$	$1.5 < S_f$

环境温度系数 Ambient temperature factor f_4					
不带辅助冷却装置或仅带冷却风扇 Without auxiliary cooling or with fan cooling					
环境温度 Ambient temperature	每小时工作周期 (ED) 百分比 % Operating cycle per hour (ED) in %				
	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

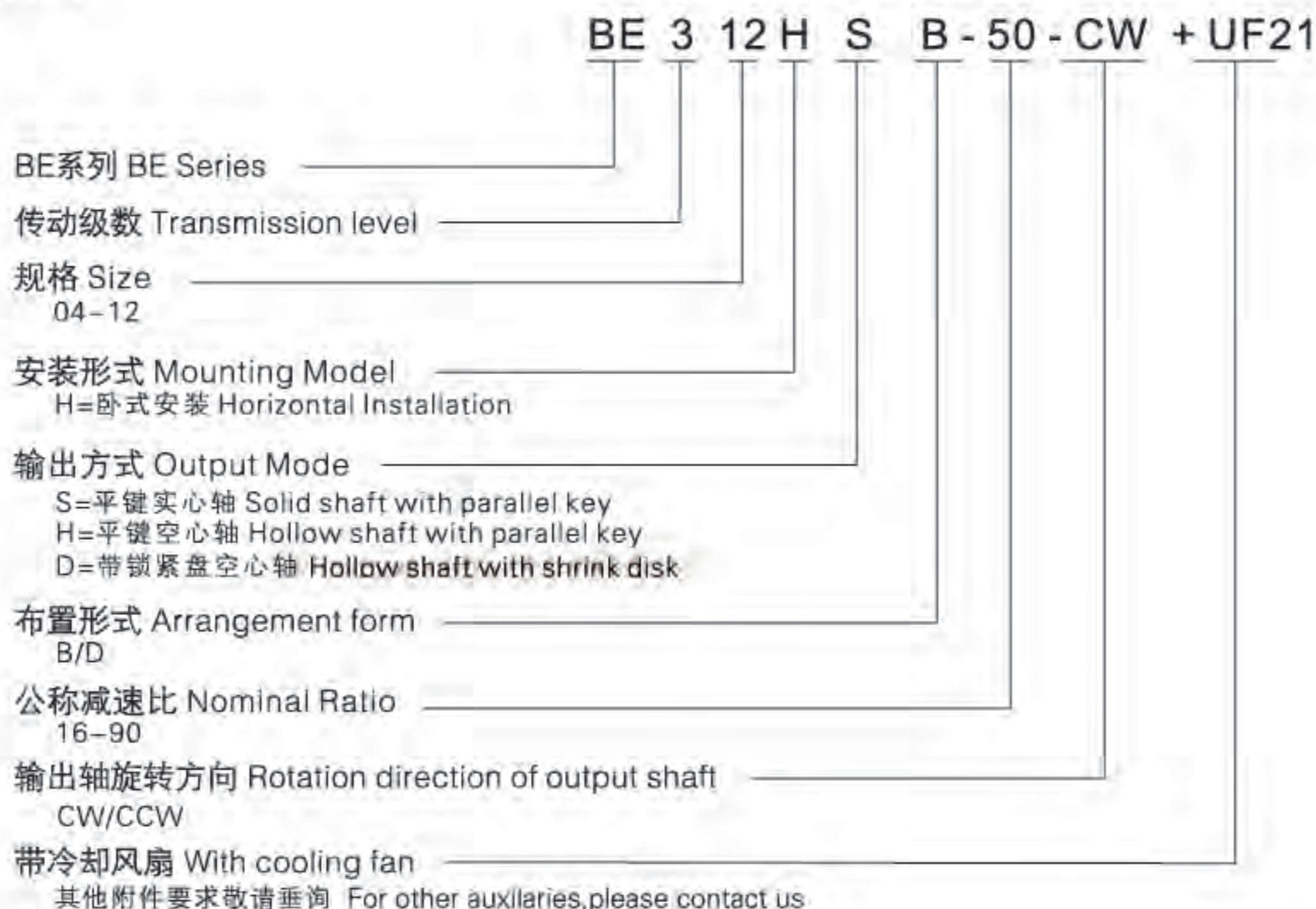
齿轮箱供油系数 Oil supply factor for gear units f_8	
飞溅润滑 Splash Lubrication	1.0
强制润滑 Forced Lubrication	1.05

注: 工作周期ED: $ED = \frac{t_f}{t_f + t_r} \cdot 100\%$ t_f : 带负载的工作时间; t_r : 停歇时间。

Note: Operating cricle ED: $ED = \frac{t_f}{t_f + t_r} \cdot 100\%$ t_f : Operating time with load t_r : Stop time

5 型号表示方法:

5 Type Designation:





6 常用代号说明:

6 Common code instruction:

代号 Code	说明	Instruction	单位 Unit
i	实际减速比	Actual ratio	/
i _N	公称减速比	Nominal ratio	
i _{ex}	精确减速比	Accurate ratio	
T _{2n}	额定输出扭矩	Rated output torque	N · m
T _A	峰值扭矩	Peak torque	
T ₃	辅助传动额定输出扭矩	Auxiliary drive rated output torque	
P _{1N}	齿轮箱额定输入功率	Rated input power for gear box	KW
P _{GA}	齿轮箱不带冷却装置的额定热容量	Rated thermal capacity for gear box without cooling devices	
P _{GB}	齿轮箱带冷却风扇的额定热容量	Rated thermal capacity for gear box with cooling fans	
P ₁	输入功率	Input power	
P ₂	被驱动设备使用功率	Application power for driver machine	
P _m	电机功率	Motor Power	
f ₁	被驱动设备系数	Driven machine factor	/
f ₂	原动机系数	Prime mover factor	
f ₃	峰值负荷系数	Peak load factor	
f ₄	环境温度系数	Ambient temperature factor	
f _B	齿轮箱供油系数	Oil supply factor for gear box	
S _F	齿轮箱可靠度系数	Reliability factor for gear box	
n ₁	输入转速	Input speed	r/min
n _{2N}	公称输出转速	Nominal output speed	
n ₂	输出转速	Output speed	
n ₃	辅助装置运行时输出轴转速	Output shaft speed when auxiliary device is running	

7 辅助参数

7 Auxiliary parameter

机座号 Foundation NO.	齿轮马达 Gear motor	公称速比 Nominal ratio	实际速比 Actual ratio	电机功率/KW Motor power	主传动速比 Main ration	输出转速r/min Output rotation speed	额定输出扭矩T ₃ /KN·m Rated output torque
4	KF47	30.9	31.43	1.1	16-25	3.7	2.9
					28-90	2.1	5.2
5	KF67	30.9	30.96	2.2	16-25	3.9	4.7
					28-90	2.2	8.6
6	KF67	30.9	30.96	2.2	16-25	3.8	5
					28-90	2.1	8.9
7	KF77	30.9	30.9	4	16-25	3.8	9.3
					28-90	2.1	17.1
8	KF77	30.9	30.9	4	16-25	3.8	9.3
					28-90	2.1	17
9	KF77	35.7	36.5	5.5	16-25	3.2	15.7
					28-90	1.8	27.1
10	KF77	35.7	36.5	5.5	16-25	3.2	15.5
					28-90	1.9	26.8
11	KF87	27.9	27.9	11	16-25	4.2	24.9
					28-90	2.3	44.7
12	KF87	27.9	27.9	11	16-25	4.2	25.9
					28-90	2.3	46.5

**8 选型举例****8 Selection example**

已知条件:	Known Criterias:
<p>原动机: 电机功率: $P_m=132KW$ 电机转速: $n_1=1450rpm$ 最大启动扭矩: $T_A=1395N \cdot m$</p> <p>被驱动设备 (工作机): 设备名称: 斗式提升机 设备转速: $n_2=29r/min$ 提升功率: $P_2=100KW$ 工作制: 12小时/天 每小时工作周期: 100% 环境温度: $40^\circ C$</p> <p>齿轮箱: BE系列齿轮箱 轴布置形式: B 输出轴: 带锁紧盘联接的空心输出轴 输出轴旋转方向: CW (面向输出轴顺时针旋转)</p>	<p>Prime motor: Motor Power: $P_m=132KW$ Motor Speed: $n_1=1450rpm$ Maximum starting torque: $T_A=1395N \cdot m$</p> <p>Driven machine (working machine): Machine name: Bucket Elevator Machine speed: $n_2=29rpm$ Lifting power: $P_2=100KW$ service duration: 12h/day Operating circle per hour: 100% Ambient temperature: $40^\circ C$</p> <p>Gear units: BE series gear box Shaft amangement: B Output shaft: Hollow output shaft with shrink disk connection Rotating direction of out put shaft: CW (Facing output shaft, CW rotating)</p>
选型步骤:	Selection steps:
<p>1.计算速比: $i=n_1/n_2=1450/29=50$ 取$i_N=50$</p> <p>2.确定齿轮箱的额定功率: $P_1=P_2/\eta=100/(94\%)=106.4KW$ $P_{1N} \geq P_1 \cdot f_1 \cdot f_2 \cdot SF=106.4 \times 1.5 \times 1 \times 1.4=223.4KW$ 根据传动能力表查得机座号12</p> <p>3.峰值扭矩校核: $P_{1N} \geq T_A \cdot n_1 \cdot f_3/9550=1395 \times 1450 \times 0.5/9550=105.9KW$ $P_{1N}=234KW \geq 105.9KW$ 满足要求</p> <p>4.校核热容量: $P_{GA} \cdot f_4 \cdot f_8=115 \times 0.75 \times 1=86.3KW \leq 100KW$ 不满足要求 $P_{GB} \cdot f_4 \cdot f_8=281 \times 0.75 \times 1=210.8KW \geq 100KW$ 满足要求 所以齿轮箱配置冷却风扇可以满足热容量要求</p> <p>5.确定型号: BE312HDB-50 -CW+UF21</p>	<p>1. Calculate ratio: $i=n_1/n_2=1450/29=50$ take $i_N=50$</p> <p>2. Determine rated power of gear box: $P_1=P_2/\eta=100/(94\%)=106.4KW$ $P_{1N} \geq P_1 \cdot f_1 \cdot f_2 \cdot SF=106.4 \times 1.5 \times 1 \times 1.4=223.4kW$ Referring to the table of transmission capacity, Choose foundation NO.12</p> <p>3. Verify peak torque: $P_{1N} \geq T_A \cdot n_1 \cdot f_3/9550=1395 \times 1450 \times 0.5/9550=105.9kW$ $P_{1N}=234kW \geq 105.9kW$ Meet requirement.</p> <p>4. Verify thermal capacity: $P_{GA} \cdot f_4 \cdot f_8=115 \times 0.75 \times 1=86.3kW \leq 100KW$ Do not satisfy the requirement $P_{GB} \cdot f_4 \cdot f_8=281 \times 0.75 \times 1=210.8kW \geq 100KW$ meet requirement So auxiliary cooling device can meet the requirement of thermal capacity.</p> <p>5. Determine type: BE312HDB-50 -CW+UF21</p>



9 传动能力表:

9 Table of transmission capacity:

iN	n ₁ (r/min)	n _{2N} (r/min)	BE304			BE305			BE306			BE307		
			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)
16	1450	90.6	6.7	15.6	62	10.5	14.9	100	12.0	15.3	114	20.0	15.5	188
	960	60.0			41.0						66			75
18	1450	80.6	6.7	17.6	56	11.6	16.8	95	12.6	17.3	105	21.7	17.5	177
	960	53.3			37.1						63			70
20	1450	72.5	6.7	18.7	50	11.6	17.9	88	13.2	18.4	100	21.7	20.2	164
	960	48.0			33.1						58			66
22.4	1450	64.7	6.7	22.0	45.0	11.6	21.1	78	14.2	21.6	96	21.7	21.9	147
	960	42.9			29.8						52			64
25	1450	58.0	6.7	24.9	41.0	11.6	23.9	70	15.5	24.5	94	21.7	24.8	131
	960	38.4			27.1						46.3			62
28	1450	51.8	6.7	27.7	36.0	11.6	26.5	63	15.5	27.2	84	21.7	28.3	118
	960	34.3			23.8						41.7			56
31.5	1450	46.0	6.7	31.2	32.0	11.6	29.9	56	15.5	30.7	74	21.7	31.9	105
	960	30.5			21.2						37.1			49.0
35.5	1450	40.8	6.7	33.2	28.0	11.6	31.8	49.0	15.5	32.7	66	21.7	37.0	92
	960	27.0			18.5						32.4			43.7
40	1450	36.3	6.7	39.1	25.0	11.6	37.5	44.0	15.5	38.4	59	21.7	40.0	83
	960	24.0			16.6						29.1			39.1
45	1450	32.2	6.7	44.3	22.0	11.6	42.5	39.0	15.5	43.6	51	21.7	45.3	72
	960	21.3			14.6						25.8			33.8
50	1450	29.0	6.7	48.7	20.0	11.6	46.7	35.0	15.5	47.9	46.0	21.7	49.8	66
	960	19.2			13.2						23.2			30.5
56	1450	25.9	6.7	56.2	18.0	11.6	53.9	31.0	15.5	55.3	42.0	21.7	57.5	59
	960	17.1			11.9						20.5			27.8
63	1450	23.0	6.7	60.9	16.0	11.6	58.4	27.0	15.5	59.9	37.0	21.7	62.3	51
	960	15.2			10.6						17.9			24.5
71	1450	20.4	6.7	68.7	14.0	11.6	65.8	24.0	15.5	67.5	33.0	20.0	70.2	42.0
	960	13.5			9.3						15.9			21.8
80	1450	18.1	6.7	78.8	12	11.6	75.5	21.0	15.5	77.5	29.0	20.0	80.5	37
	960	12.0			8.2						13.9			19.2
90	1450	16.1	6.7	85.8	11.0	11.6	82.3	19.0	15.5	84.4	26.0	20.0	87.8	33
	960	10.7			7.3						12.6			17.2



BE308			BE309			BE310			BE311			BE312			n _{2N} (r/min)	n ₁ (r/min)	iN
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)	T _{2N} (kN·m)	i _{ex}	P _{1N} (kW)			
21.5	15.3	204	31.0	15.6	295	35.6	15.4	338	60	15.4	569	67	15.5	630	90.6	1450	16
		135			195			224			377			417	60.0	960	
23.1	17.2	193	34.0	17.6	284	37.5	17.4	314	62	17.4	520	70	17.4	584	80.6	1450	18
		128			188			208			344			387	53.3	960	
25.0	19.9	189	35.7	20.4	271	39.3	20.1	298	64	20.1	481	73	20.2	551	72.5	1450	20
		125			179			197			318			365	48.0	960	
27.2	21.6	179	35.7	22.1	242	43.8	21.8	283	64	21.8	430	78	21.8	512	64.7	1450	22.4
		119			160			187			285			339	42.9	960	
27.2	24.4	164	35.7	25.0	217	43.8	24.7	266	64	24.7	385	78	24.7	469	58.0	1450	25
		109			144			176			255			311	38.4	960	
27.2	27.9	148	35.7	27.1	194	43.8	26.7	239	64	27.7	347	78	27.7	421	51.8	1450	28
		98			128			158			230			279	34.3	960	
27.2	31.5	131	35.7	30.5	173	43.8	30.1	213	64	31.2	308	78	31.2	375	46.0	1450	31.5
		87			115			141			204			248	30.5	960	
27.2	36.5	115	35.7	35.4	152	43.8	34.9	186	64	36.1	270	78	36.1	328	40.8	1450	35.5
		76			101			123			179			217	27.0	960	
27.2	39.4	104	35.7	38.2	137	43.8	37.8	168	64	39.0	244	78	39.1	297	36.3	1450	40
		69			91			111			162			197	24.0	960	
27.2	44.7	90	35.7	43.3	119	43.8	42.8	146	64	44.2	212	78	44.3	257	32.2	1450	45
		60			79			97			140			170	21.3	960	
27.2	49.2	82	35.7	47.7	108	43.8	47.1	132	64	48.7	192	78	48.7	234	29.0	1450	50
		54			72			87			127			155	19.2	960	
27.2	56.7	73	35.7	55.0	97	43.8	54.3	119	64	56.2	173	78	56.2	211	25.9	1450	56
		48.3			64			79			115			140	17.1	960	
27.2	61.5	66	35.7	59.6	86	43.8	58.8	106	64	60.8	154	78	60.9	188	23.0	1450	63
		43.7			57			70			102			124	15.2	960	
27.2	69.3	57	34.0	67.2	72	43.8	66.3	93	60	68.6	127	78	68.7	163	20.4	1450	71
		37.7			47.7			62			84			108	13.5	960	
27.2	79.5	50	34.0	77.0	64	43.8	76.1	83	60	78.6	113	78	78.8	146	18.1	1450	80
		33.1			42.3			55			75			97	12.0	960	
25.2	86.6	43.0	34.0	84.0	57	43.8	82.9	73	60	85.7	100	78	85.8	127	16.1	1450	90
		28.5			37.6			48.3			66			84	10.7	960	



10 额定热容量(kW):

10 Rated thermal capacities(kW):

iN		BE304				BE305				BE306				BE307				BE308			
		960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
16	P _{GA}	35.2	37	36.8	36.8	47.9	49.5	48.3	46.7	55.4	57	55.4	53.1	74	75.7	72.9	68.5	86.2	87.5	83.3	76.8
	P _{GB}	61.3	70	78.6	86.9	87.5	99.5	110	121	100	113	126	138	137	156	172	187	158	178	196	212
18	P _{GA}	34.3	36	35.9	35.9	46.5	48.1	47.2	45.9	53.7	55.5	54.1	52.2	71.7	73.6	71.1	67.4	83.2	84.8	81.1	75.5
	P _{GB}	59.5	67.9	76.4	84.5	84.8	96.5	107	118	97.1	110	122	134	133	151	167	182	153	173	191	207
20	P _{GA}	32.4	34	34	34.1	44.6	46.4	45.6	44.5	51.9	53.7	52.6	51	68.9	70.9	68.8	65.7	79.4	81.2	78	73.3
	P _{GB}	56.1	64.1	72.1	79.9	81.3	92.6	103	113	93.5	106	118	129	127	145	161	175	145	165	182	198
22.4	P _{GA}	31.6	33.3	33.3	33.6	44	45.8	45.1	44.3	50.4	52.3	51.4	50.1	66.8	68.9	67.2	64.6	77.4	79.4	76.7	72.7
	P _{GB}	54.6	62.4	70.3	77.9	80	91.1	101	112	90.7	103	115	126	123	140	155	170	141	160	177	193
25	P _{GA}	30.1	31.8	31.9	32.3	41.8	43.7	43.3	43	48.6	50.6	50.1	49.4	65	67.4	66.2	64.6	74.7	77.1	75.2	72.5
	P _{GB}	51.7	59.1	66.7	74.1	75.5	86.2	96.6	106	86.9	99	110	122	119	135	151	165	134	153	170	186
28	P _{GA}	29	30.7	30.9	31.4	40.6	42.6	42.5	42.6	48	50.3	50	49.9	62.1	64.8	64.1	63.4	72.7	75.5	74.4	72.9
	P _{GB}	49.4	56.6	63.9	71.1	72.7	83	93.3	103	85.5	97.5	109	121	112	127	143	157	130	148	165	182
31.5	P _{GA}	27.5	29.1	29.4	30.1	38.6	40.6	40.7	41	45.5	47.8	47.8	48	59.2	62	61.7	61.6	70.3	73.4	72.7	72
	P _{GB}	46.8	53.7	60.7	67.6	68.7	78.5	88.5	98.1	80.6	92.1	103	114	106	121	136	150	125	143	160	177
35.5	P _{GA}	25.9	27.5	27.8	28.5	36.4	38.4	38.6	39.1	44	46.3	46.4	46.9	56.4	59.2	59.1	59.4	67	70.2	69.8	69.7
	P _{GB}	43.8	50.2	56.8	63.3	64.3	73.6	83	92.1	77.5	88.6	99.8	110	100	114	129	142	119	136	152	168
40	P _{GA}	22.6	24	24.3	25	31.7	33.5	33.7	34.2	41.8	44.1	44.3	44.9	49.4	52	52	52.4	64.1	67.3	67.1	67.2
	P _{GB}	38.1	43.7	49.4	55.1	55.5	63.5	71.6	79.6	73.3	83.8	94.6	105	87.1	99.6	112	124	112	128	144	160
45	P _{GA}	22.1	23.5	23.8	24.5	30.9	32.7	32.9	33.5	39.3	41.5	41.8	42.5	48	50.6	50.8	51.3	60.9	64	64	64.4
	P _{GB}	37.2	42.6	48.3	53.9	54	61.8	69.8	77.7	68.5	78.4	88.5	98.4	84.1	96.1	108	120	106	121	137	151
50	P _{GA}	22.4	23.8	24.2	24.9	30.8	32.7	33	33.9	34.4	36.4	36.8	37.7	47.6	50.3	50.7	51.7	53.6	56.6	56.9	57.8
	P _{GB}	37.4	42.9	48.7	54.4	53.3	61.1	69.2	77.1	59.4	68	76.9	85.7	82.5	94.5	106	118	92.5	105	119	132
56	P _{GA}	20.7	22	22.4	23.1	28.5	30.2	30.7	31.6	33.6	35.7	36.2	37.2	44.3	47	47.5	48.7	52.1	55.2	55.7	57
	P _{GB}	34.4	39.4	44.8	50	49.3	56.5	64	71.4	57.8	66.3	75.1	83.7	76.7	87.9	99.5	110	89.6	102	116	129
63	P _{GA}	19.9	21.2	21.6	22.3	27.4	29.1	29.5	30.4	33.4	35.5	36	37.1	42.8	45.5	46.1	47.3	51.5	54.6	55.2	56.6
	P _{GB}	33.1	38	43.2	48.3	47.3	54.3	61.6	68.7	57.1	65.5	74.2	82.9	74.1	84.9	96.2	107	88.1	100	114	127
71	P _{GA}	18.4	19.6	20	20.7	26.1	27.7	28.2	29.1	30.8	32.8	33.3	34.3	40.8	43.3	43.9	45.2	47.8	50.8	51.4	52.7
	P _{GB}	30.7	35.3	40	44.8	44.9	51.6	58.5	65.3	52.6	60.3	68.4	76.3	70.5	80.9	91.7	102	81.7	93.6	106	118
80	P _{GA}	20.7	22.0	19.2	19.9	30.1	32.1	27.0	27.9	29.5	31.4	31.9	32.9	39.1	41.5	42.1	43.4	46.2	49.1	49.7	51.1
	P _{GB}	34.6	39.7	38.5	43.2	51.9	59.6	56.4	63.0	50.6	58.1	65.9	73.6	67.8	77.9	88	98.4	79	90.5	102	114
90	P _{GA}	19.9	21.2	18.3	19.0	28.3	30.0	25.8	26.7	28.2	30	30.5	31.5	37.4	39.6	40.3	41.6	44	46.8	47.4	48.8
	P _{GB}	33.0	37.9	36.7	41.1	48.7	55.8	53.6	59.9	48.1	55.2	62.7	70	64.5	74.1	83.7	93.6	75.1	86.1	97.6	108



BE309				BE310				BE311				BE312				iN	
960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740		
99.4	100	94.3	85.1	110	110	103	90.8	133	129	114	89.8	155	147	125	*	PGA	16
193	218	239	258	214	240	262	281	300	334	358	375	347	384	407	419	PGB	
96.5	97.7	92.5	84.4	102	102	96.3	86.1	132	129	115	93.1	156	149	129	*	PGA	18
187	211	232	250	197	222	243	261	293	328	353	371	347	386	411	426	PGB	
92.8	94.3	89.8	82.9	105	106	100	90.8	126	124	112	93.3	147	141	124	96	PGA	20
179	202	223	241	203	228	251	270	280	314	339	358	323	360	385	401	PGB	
90.7	92.5	88.6	82.7	97.5	98.9	93.9	86.2	122	120	110	93.7	148	144	128	102	PGA	22.4
175	198	218	237	186	210	231	250	266	298	324	343	324	361	388	407	PGB	
87.3	89.7	86.9	82.8	94.3	96.4	92.8	87.2	117	117	109	97.2	144	142	130	110	PGA	25
166	188	209	228	178	202	223	243	250	281	307	329	309	346	375	398	PGB	
83.9	86.8	85	82.5	92.7	95.6	93.1	89.4	113	114	109	100	140	140	131	117	PGA	28
157	179	199	218	174	197	220	240	238	269	296	320	295	332	363	390	PGB	
80.6	83.9	82.7	81.3	89.1	92.4	90.7	88.4	108	111	106	100	133	135	129	118	PGA	31.5
149	170	190	209	165	188	210	230	225	254	282	306	276	312	344	371	PGB	
76.9	80.3	79.6	78.9	85.3	88.8	87.7	86.3	105	108	105	100	128	131	125	118	PGA	35.5
141	161	181	199	156	178	199	219	215	244	271	296	262	296	328	356	PGB	
72.1	75.4	75	74.7	81.6	85.2	84.4	83.6	99.6	102	100	97	122	125	121	115	PGA	40
131	150	168	186	149	170	191	211	201	229	255	279	246	279	310	337	PGB	
66.4	69.6	69.4	69.5	77.7	81.3	80.8	80.4	91.6	95	93.2	90.8	117	121	118	113	PGA	45
120	137	154	170	140	160	180	199	184	210	234	257	236	268	298	326	PGB	
65.5	69.1	69.3	70.2	73.1	77	77	77.7	92.4	96.6	95.8	95.2	112	116	115	113	PGA	50
117	133	151	167	131	150	169	188	181	207	232	256	221	251	281	310	PGB	
60.7	64.3	64.8	66.1	67.7	71.5	72	73.2	84.5	88.9	88.9	89.4	103	108	108	108	PGA	56
108	124	140	156	120	137	155	173	164	188	211	234	203	232	260	288	PGB	
58.7	62.2	62.8	64.2	66.5	70.4	71	72.5	81.7	86.1	86.3	87.3	103	108	108	108	PGA	63
104	119	135	150	117	134	151	168	158	180	203	226	198	227	255	283	PGB	
55	58.3	59	60.4	61.7	65.3	65.9	67.4	75.7	79.9	80.2	81.3	94.8	99.8	99.9	100	PGA	71
97.8	112	126	141	108	124	140	156	146	167	189	210	180	206	232	257	PGB	
53.2	56.3	57	58.6	59.6	63.1	63.8	65.3	73.1	77.2	77.644	78.8	90.7	95.5	95.8	96.9	PGA	80
94.6	108	121	136	105	120	136	151	142	162	183.6	203	173	198	224	248	PGB	
50.6	53.7	54.4	56	55.9	59.3	60	61.5	68.6	72.6	73.02	74.2	84.5	89.2	89.6	90.9	PGA	90
89.9	103.0	116	129	98.4	112	127	142	133	151	171.45	191	161	184	208	231	PGB	

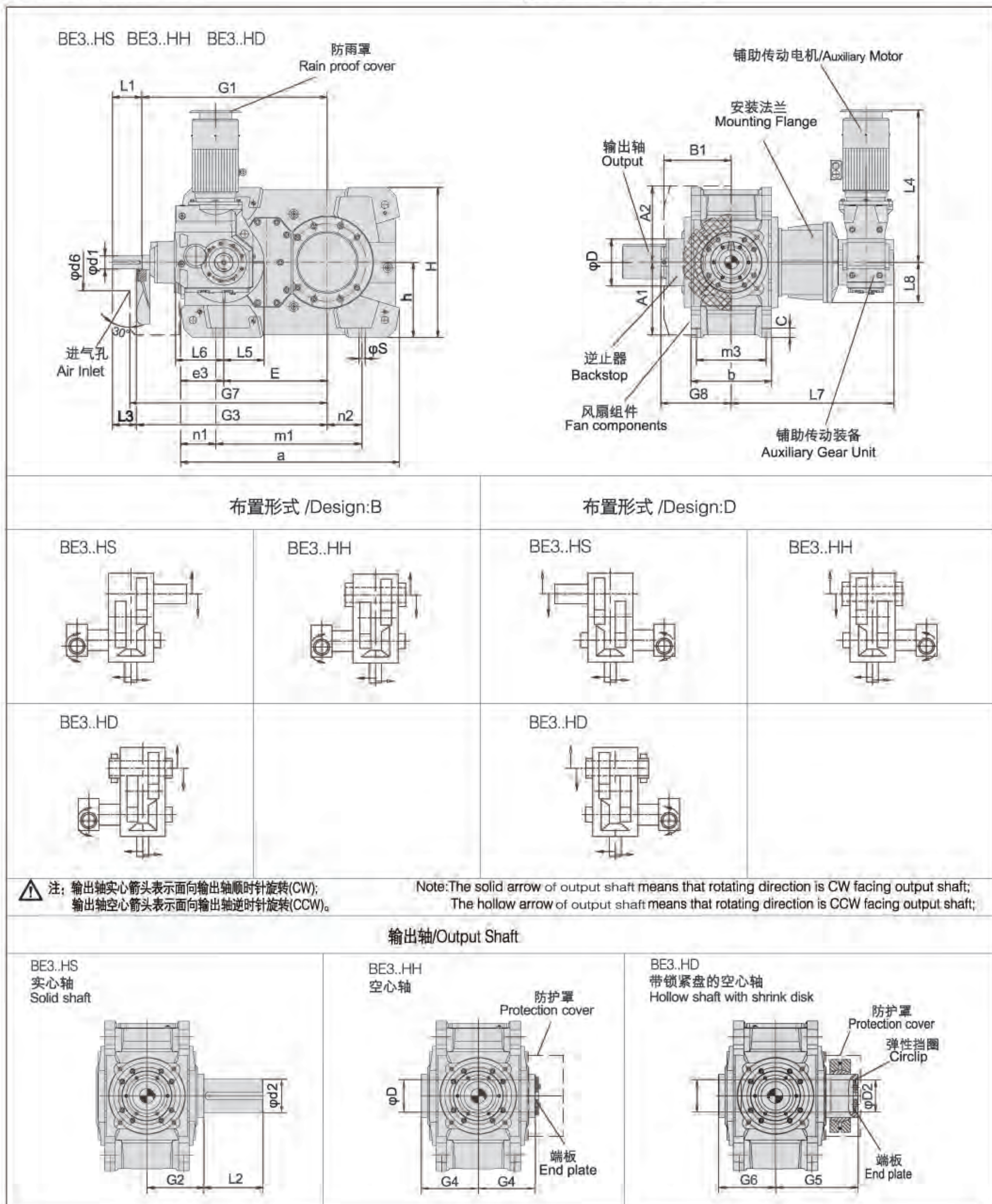


11 外形尺寸图表:

BE系列齿轮箱
带辅助传动装置(空载运行)
类型BE3.. 规格04-12

11 Outline Dimensions:

BE series gear box
With auxiliary transmission machine(Running under empty load)
Type BE3.. Size04-12





BE系列齿轮箱
带辅助传动装置(空载运行)
类型BE3.. 规格04-12

BE Series Gear Box
With Auxiliary Transmission Machine(Running under empty load)
Type BE3.. Size04-12

规格/Size	输入轴/Input shaft						齿轮箱/Gear Box						
	iN ≤ 63			iN ≥ 71			G1	G3	a	A1	A2	b	B1
	d1	l1	l3	d1	l1	l3							
04	35k6	80	60	30k6	60	40	500	520	586	195	200	215	185
05	45k6	110	80	35k6	80	50	575	605	667	220	235	255	215
06	45k6	110	80	35k6	80	50	610	640	743	220	235	255	215
07	50k6	110	90	40k6	80	60	690	710	816	270	285	300	250
08	50k6	110	90	40k6	80	60	735	755	920	270	285	300	250
09	60m6	140	110	50k6	110	80	800	830	957	310	325	370	250
10	60m6	140	110	50k6	110	80	850	880	1062	310	325	370	250
11	75m6	140	110	60m6	140	110	960	995	1132	370	385	430	330
12	75m6	140	110	60m6	140	110	1035	1065	1292	370	385	430	330

规格/Size	齿轮箱/Gear Box																		
	C	d6	e3	E	G7	G8	h	H	m1	m3	n1	n2	S	L4	L5	L6	L7	L8	D6
04	28	150	110	270	540	193	200	400	355	180	112	85	19	568	137	112	435	100	125
05	28	160	130	315	630	217	230	460	430	220	113	100	19	690	165	140	520	125	150
06	28	160	130	350	665	217	230	490	510	220	113	145	19	690	165	140	520	125	150
07	35	210	160	385	735	262	280	560	545	260	131	130	24	708	210	180	615	150	175
08	35	210	160	430	780	262	280	580	650	260	131	190	24	708	210	180	615	150	175
09	40	260	185	450	860	297	320	640	635	320	156	155	28	769	255	180	675	150	190
10	40	260	185	500	910	297	320	670	735	320	156	205	28	769	255	180	675	150	190
11	50	210	225	545	1025	347	380	760	775	370	178	180	35	963	315	212	760	175	230
12	50	210	225	615	1095	347	380	790	930	370	178	265	35	963	315	212	760	175	230

规格/Size	输出轴/Output Shaft									润滑油/Lubrication Oil		重量 Weight
	BE3.HS			BE3.HH		BE3.HD				辅助传动装置 Auxiliary Transmission Machine	BE3..	
	d2	G2	L2	D	G4	D2	D3	G5	G6	(L)	(L)	(Kg)
04	80m6	140	170	80H7	140	85H7	85H7	205	140	2	9	246
05	100m6	165	210	95H7	165	100H7	100H7	240	165	3.9	14	390
06	110m6	165	210	105H7	165	110H7	110H7	240	165	3.9	15	445
07	120m6	195	210	115H7	195	120H7	120H7	280	195	7.4	25	652
08	130m6	195	250	125H7	195	130H7	130H7	285	195	7.4	28	737
09	140m6	235	250	135H7	235	140H7	140H7	330	235	7.7	40	1020
10	160m6	235	300	150H7	235	150H7	150H7	350	235	7.7	42	1150
11	170m6	270	300	165H7	270	165H7	165H7	400	270	13.7	66	1658
12	180m6	270	300	180H7	270	180H7	180H7	405	270	13.7	72	1933

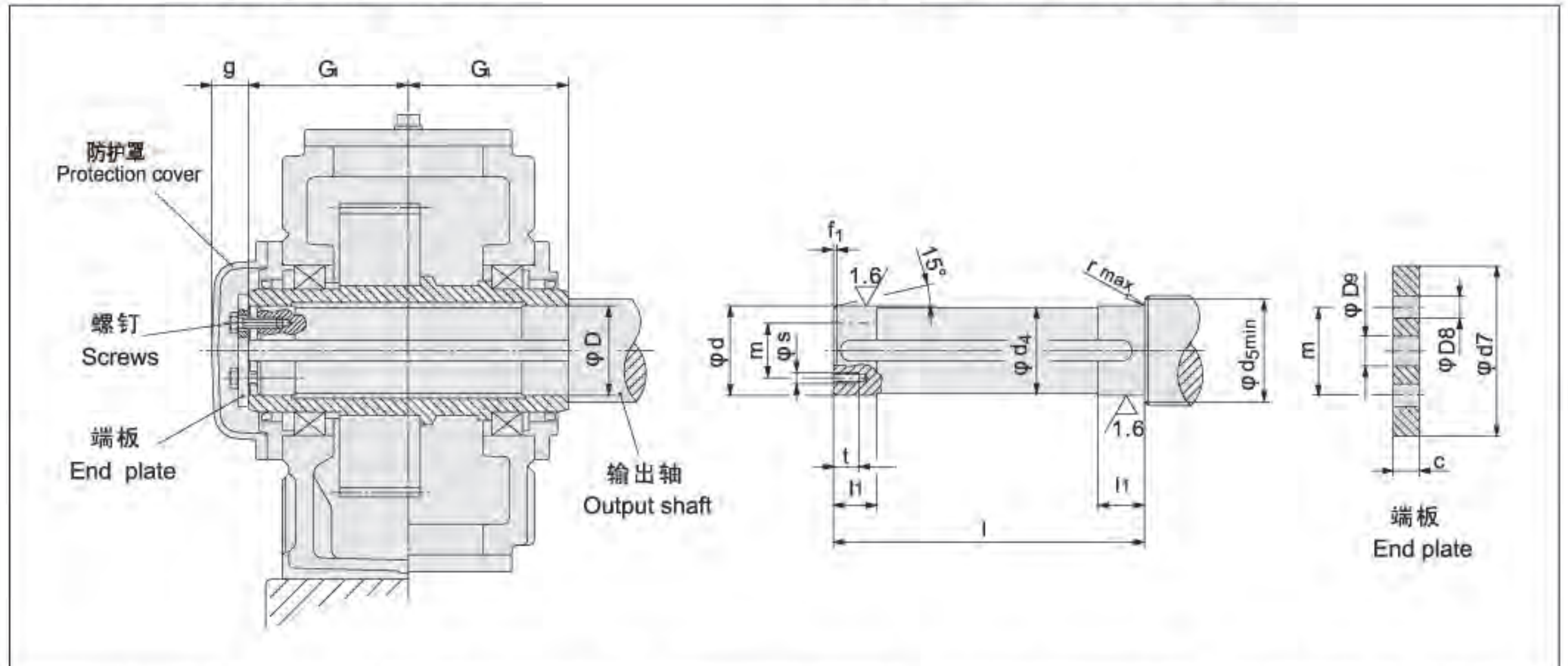


12 建议输出联结尺寸图表:

12 Recommended Output Connection Dimension:

12.1 带平键联接的空心轴尺寸图表:

12.1 Hollow Shafts for parallel key:



规格/Size	被驱动设备的驱动轴 Driven machine shaft										端板 End plate				螺钉 Screw		空心轴 Hollow shaft		
	d	d4	d5	f1	l	l1	r	s	t	c	d7	D8	D9	m	规格 Size	数量 Qty	D	G4	g
04	80h6	79.5	88	4	278	35	1.2	M 10	18	10	100	11	22	60	M10x25	2	80H7	140	35
05	95h6	94.5	105	5	328	40	1.6	M 10	18	10	120	11	26	70	M10x25	2	95H7	165	40
06	105h6	104.5	116	5	328	45	1.6	M 10	18	10	120	11	26	70	M10x25	2	105H7	165	40
07	111h6	114.5	126	5	388	50	1.6	M 12	20	12	140	13.5	26	80	M12x30	2	115H7	195	40
08	125h6	124.5	136	6	388	55	2.5	M 12	20	12	150	13.5	26	85	M12x30	2	125H7	195	40
09	135h6	134.5	147	6	467	60	2.5	M 12	20	12	160	13.5	33	90	M12x30	2	135H7	235	45
10	150h6	149.5	162	6	467	65	2.5	M 12	20	12	185	13.5	33	110	M12x30	2	150H7	235	45
11	165h6	164.5	177	7	537	70	2.5	M 16	28	15	195	17.5	33	120	M16x40	2	165H7	270	45
12	180h6	179.5	192	7	537	75	2.5	M 16	28	15	220	17.5	33	130	M16x40	2	180H7	270	45

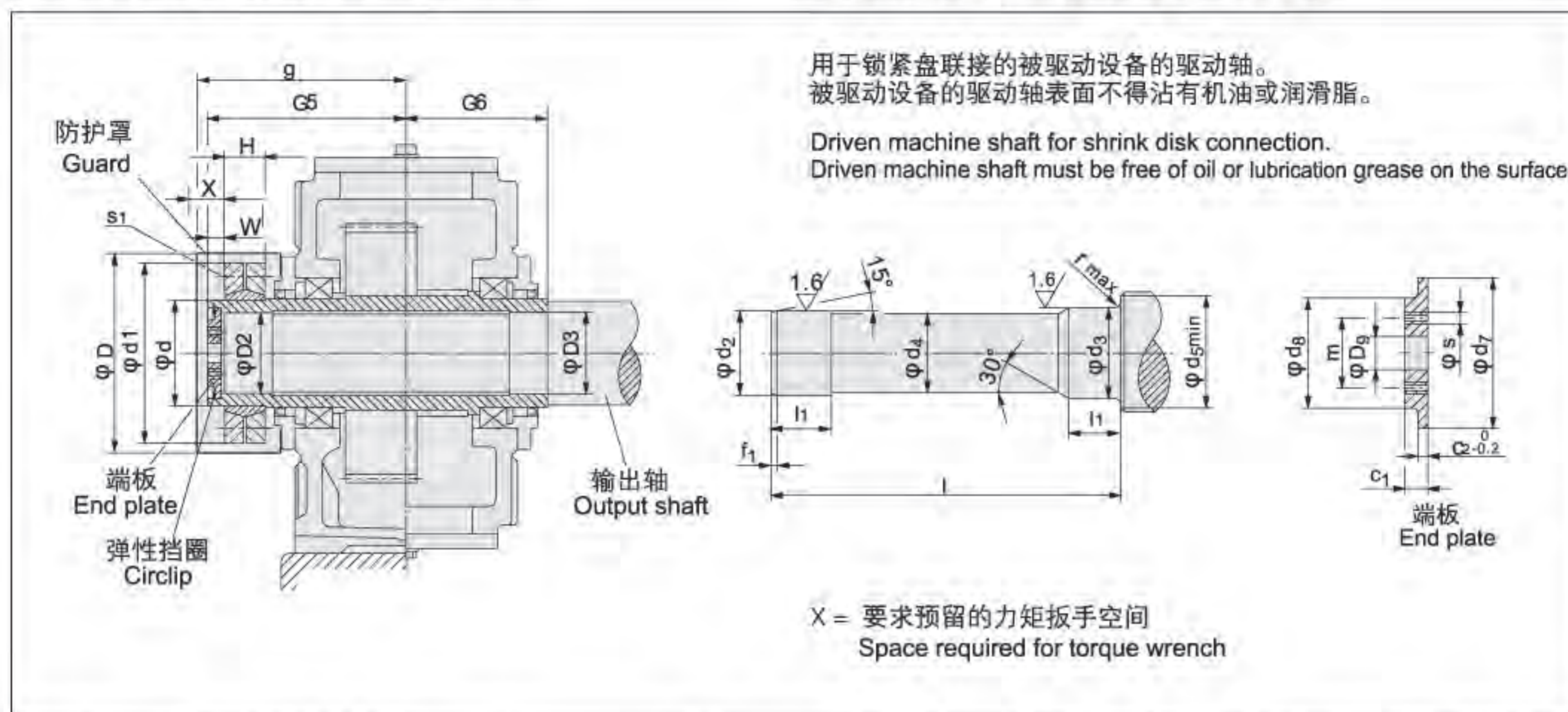
- 注: 1. 被驱动设备的驱动轴材质: 40Cr或强度更高的钢。
 2. 被驱动设备的驱动轴及平键不在我们的供货范围之内。如果需要的话, 请另订货。
 3. 防护罩、端板及螺栓均为带平键联接空心轴的标准配制。

- Note: 1. Material of driven machine : 40Cr or higher strength steel.
 2. Driven machine shaft and parallel keys don't belong to the scope of our supply. Please order separately, if required.
 3. Protection cover end board and screw are standard allocation of parallel key connected with hollow shaft.



12.2 带锁紧盘联接的空心轴尺寸图表:

12.2 Hollow Shafts for Shrink Disks:



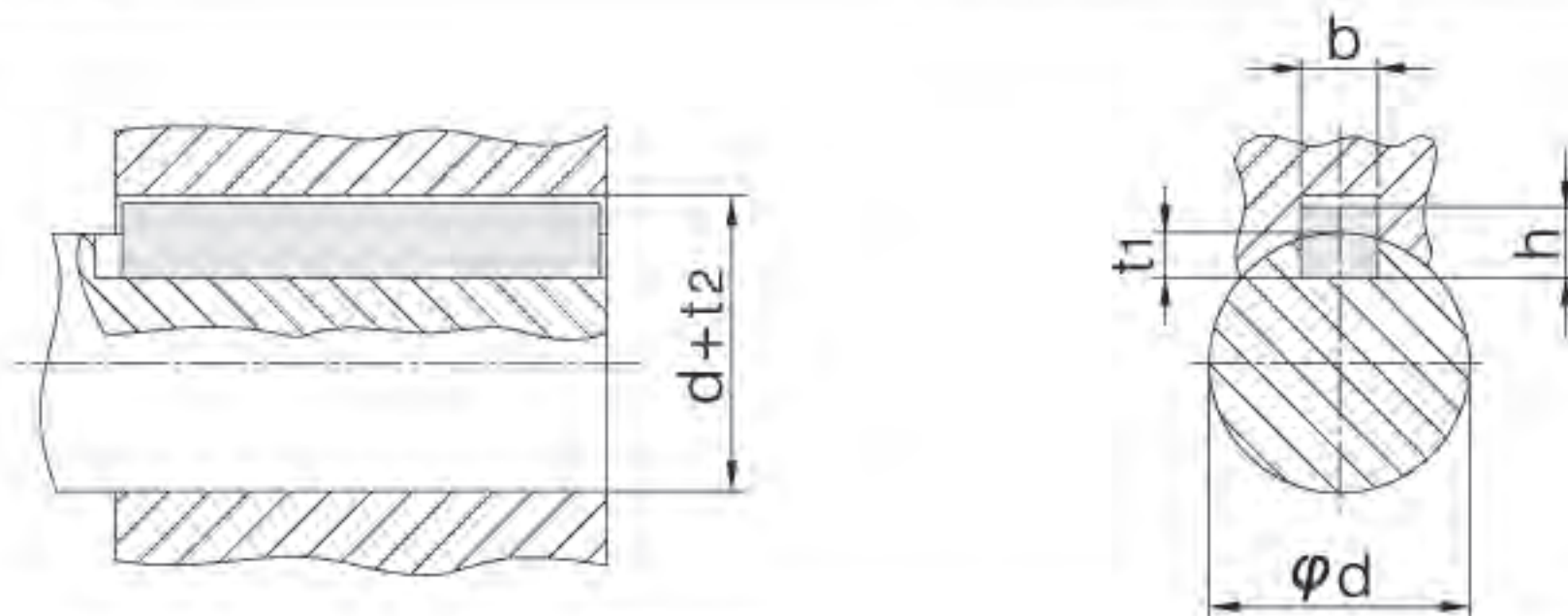
规格 size	被驱动设备的驱动轴 Driven machine shaft											端板 End plate					弹性 挡圈 Circlip	空心轴 Hollow shaft				锁紧盘 Shrink disk				螺钉 Screw	防护罩 Protection cover		
	d2	d3	d4	d5	f1	l	l1	r	c1	c2	d7	d8	D9	m	s	数量 Qty.		D2	D3	G5	G6	Type	d	d1	H			W	s1
04	85 g6	85h6	84.5	95	4	326	48	2	17	7	90 ^a d	70	22	50	M8	2	90 x 3	85H7	85H7	205	140	SP2-110	110	185	49	20	M 12	235	220
05	100 g6	100h6	99.5	114	5	383	53	2	20	8	105 ^a d	80	26	55	M10	2	105 x 4	100H7	100H7	240	165	SP2-125	125	215	53	20	M 12	275	255
06	110 g6	110h6	109.5	124	5	383	58	3	20	8	115 ^a d	85	26	60	M10	2	115 x 4	110H7	110H7	240	165	SP2-140	140	230	58	20	M 12	285	255
07	120 g6	120h6	119.5	134	5	453	68	3	20	8	125 ^a d	90	26	65	M12	2	125 x 4	120H7	120H7	280	195	SP2-155	155	263	62	23	M 12	330	295
08	130 g6	130h6	129.5	145	6	458	73	3	20	8	135 ^a d	100	26	70	M12	2	135 x 4	130H7	130H7	285	195	SP2-165	165	290	68	23	M 16	340	300
09	140 g6	140h6	139.5	160	6	539	82	4	23	10	150 ^a d	110	33	80	M12	2	150 x 4	140H7	140H7	330	235	SP2-175	175	300	68	28	M 16	360	345
10	150 g6	150h6	149.5	170	6	559	92	4	23	10	160 ^a d	120	33	90	M12	2	160 x 4	150H7	150H7	350	235	SP2-200	200	340	85	28	M 16	395	365
11	165 f6	165g6	164.5	185	7	644	112	4	23	10	175 ^a d	130	33	90	M12	2	175 x 4	165H7	165H7	400	270	SP2-220	220	370	103	30	M 20	435	420
12	180 f6	180g6	179.5	200	7	649	122	4	23	10	190 ^a d	140	33	100	M16	2	190 x 4	180H7	180H7	405	270	SP2-240	240	405	107	30	M 20	450	420

- 注: 1. 被驱动设备的驱动轴材质: 40Cr或强度更高的钢。
2. 被驱动设备的驱动轴不在供货范围之内。如果需要的话, 请另订货。
3. 锁紧盘、防护罩、端板及弹性挡圈均为带锁紧盘联接空心轴的标准配制。
- Note: 1. Material of driver machine: 40Cr or higher strength steel.
2. Driven machine shaft doesn't belong to the scope of our supply, but the size can be given.
3. Shrink disk, Protection cover, end plate and circlip are standard allocation of shrink disk connected with hollow shaft.



13 平键与键槽的尺寸:

13 Dimensions of Parallel keys and keyway:



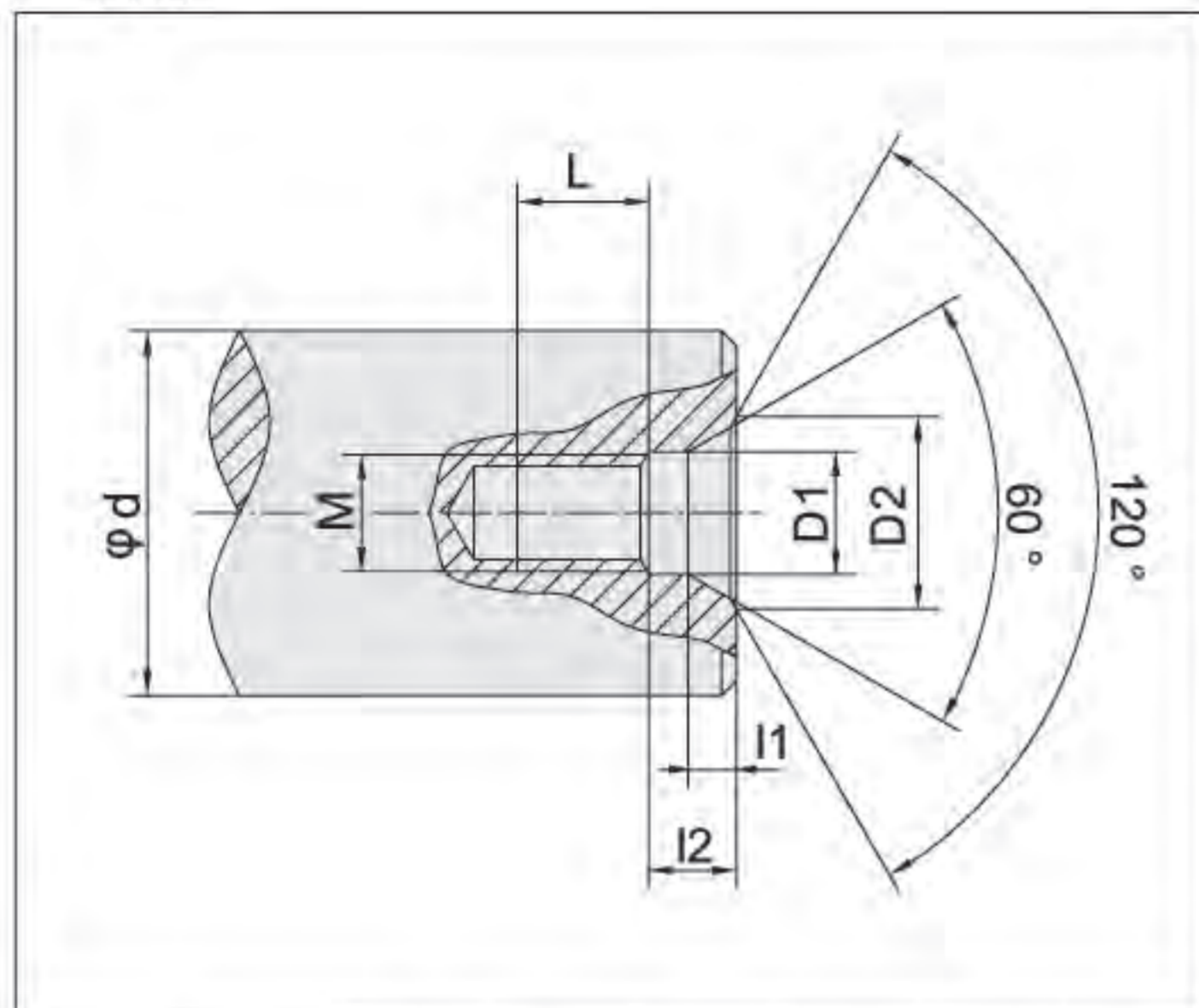
d	b	h	t ₁	d + t ₂
8 < d ≤ 10	3	3	1.8	d + 1.4
10 < d ≤ 12	4	4	2.5	d + 1.8
12 < d ≤ 17	5	5	3	d + 2.3
17 < d ≤ 22	6	6	3.5	d + 2.8
22 < d ≤ 30	8	7	4	d + 3.3
30 < d ≤ 38	10	8	5	d + 3.3
38 < d ≤ 44	12	8	5	d + 3.3
44 < d ≤ 50	14	9	5.5	d + 3.8
50 < d ≤ 58	16	10	6	d + 4.3
58 < d ≤ 65	18	11	7	d + 4.4
65 < d ≤ 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



14 轴端中心孔

14.1 轴端 C 型螺纹中心孔尺寸表:

14.1 Type C screw central hole dimension table in shaft end:



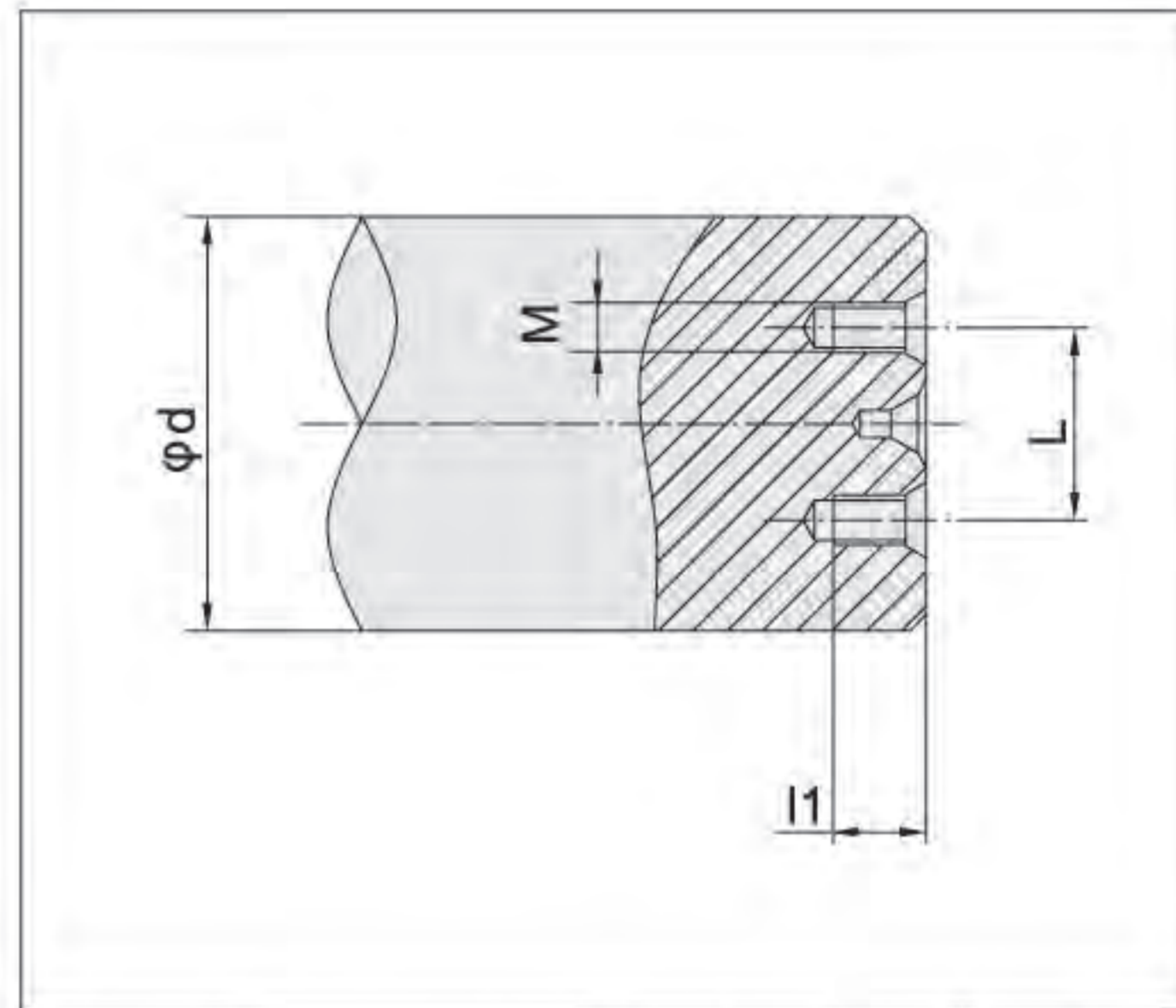
d	M	L	I2	I1	D1	D2
7 < d ≤ 10	M3	10	2.6	1.8	3.2	5.8
10 < d ≤ 13	M4	10	3.2	2.1	4.3	7.4
13 < d ≤ 16	M5	10	4	2.4	5.3	8.8
16 < d ≤ 21	M6	12	5	2.8	6.4	10.5
21 < d ≤ 24	M8	12	6	3.3	8.4	13.2
24 < d ≤ 30	M10	15	7.5	3.8	10.5	16.3
30 < d ≤ 38	M12	20	9.5	4.4	13	19.8
38 < d ≤ 50	M16	25	12	5.2	17	25.3
50 < d ≤ 85	M20	30	15	6.4	21	31.3
85 < d ≤ 130	M24	35	18	8	25	38
130 < d ≤ 225	M30	45	18	11	31	48

△ 注:d > 255时,轴端取双螺纹孔。

14 Central hole in shaft end:

14.2 轴端双螺孔尺寸表:

14.2 Double screw holes dimension table in shaft end:



d	M	I1	L
225 < d ≤ 230	M16	28	160
230 < d ≤ 280	M20	38	180
280 < d ≤ 290			190
290 < d ≤ 310	M24	45	220
310 < d ≤ 330			230
330 < d ≤ 340			240
340 < d ≤ 360			250
360 < d ≤ 390			270
390 < d ≤ 420	M30	55	300
420 < d ≤ 460			320
460 < d ≤ 500			350
500 < d ≤ 530			380
530 < d ≤ 560			400
560 < d ≤ 600			430

Note: If d > 255, double screw hole in shaft end is taken.

15 润滑油(重负荷工业齿轮油)粘度牌号选用

【VG320(附件代号:UV32);VG460(附件代号:UV46)】

环境温度℃ Ambient temperature	-20℃~+40℃	+30℃~+50℃
粘度牌号 Viscosity brand number	VG320	VG460

- △ 注: 1.上表中粘度牌号为40℃温度下的ISO-VG粘度。
 2.环境温度低于-10℃必须使用合成油。
 3.为保证产品寿命,实际使用中建议使用合成油。
 4.若环境温度超出上述范围,敬请垂询。

15 Lubrication oil(heavy loading industrial gear unit oil) viscosity brand number selection.

[VG 320 (attachment code:UV32);VG460(attachment code:UV46)]

- Note: 1.The viscosity brand number in the above table is ISO-VG viscosity under the temperature of 40℃.
 2.When ambient temperature is lower than-10℃, Synthetic oil is needed.
 3.To ensure product lifespan,we suggest synthetic oil during application.
 4.If ambient temperature exceeds the above range,please contact us.

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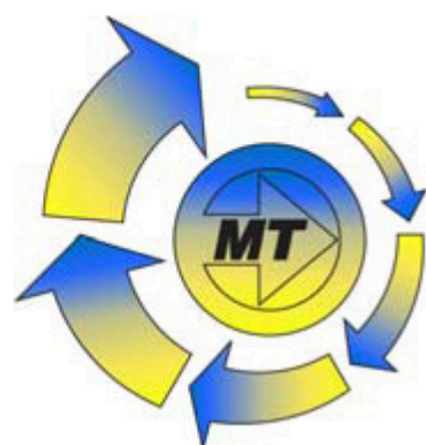
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