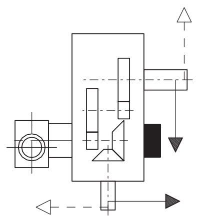
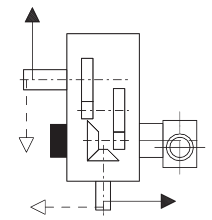
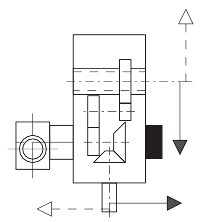
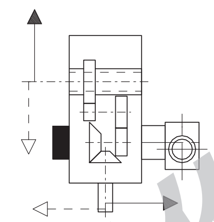
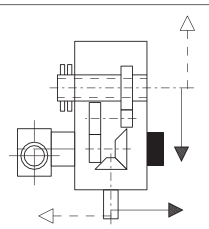
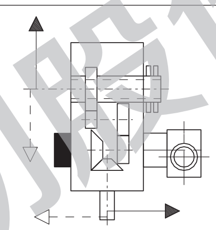
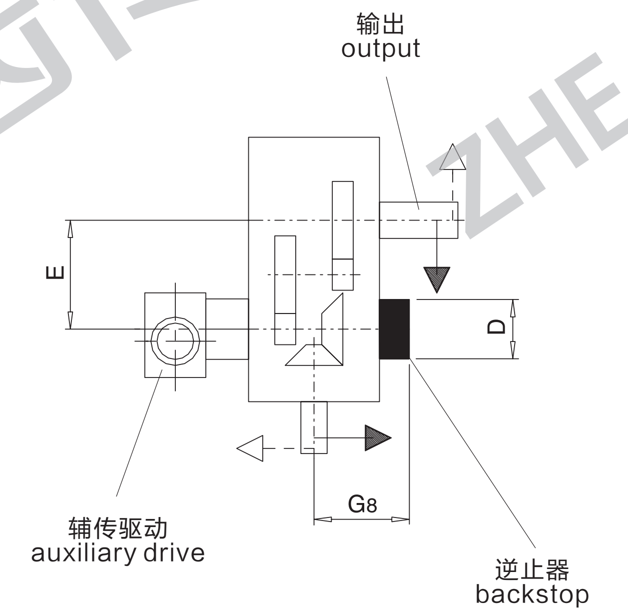
直交轴齿轮箱 Bevel-helical gear units

逆止器 Backstops

类型 TYPES EB3...
规格 SIZES 4...18

标准逆止器布置及输入输出转向关系 Standard backstop arrangement and dependence of direction of rotation		
类型 Type	布置形式 Design	
	B	D
EB3SH		
EB3HH		
EB3DH		

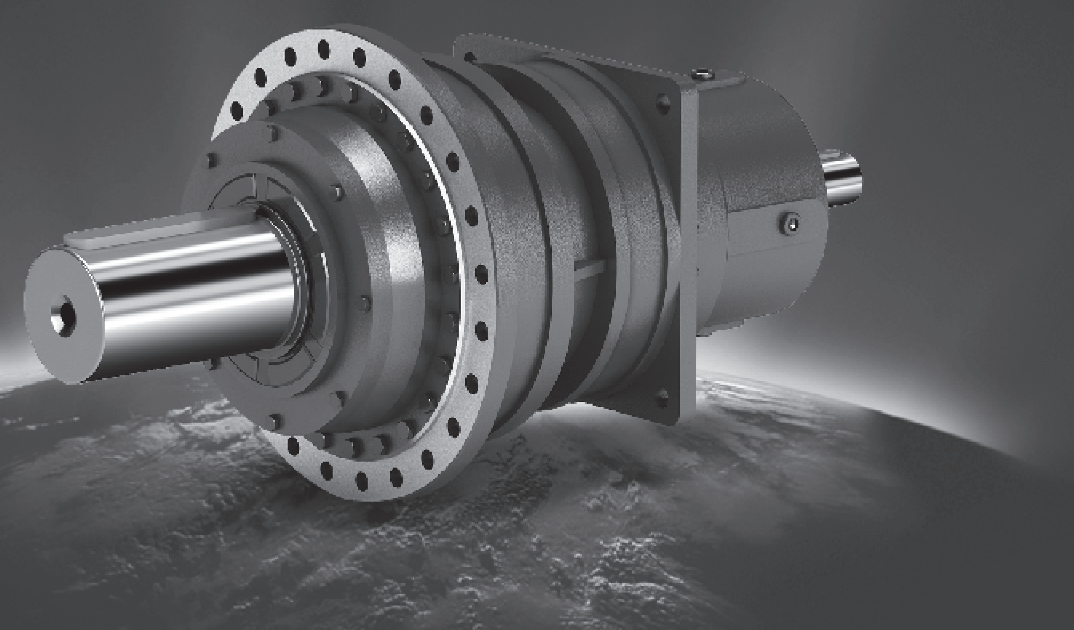
型号/types EB3.H					
规格 Sizes	E mm	G8 mm		D mm	
4	270	193	188*	132	132*
5	315	218	213*	150	160*
6	350	218	213*	150	160*
7	385	273	266*	190	195*
8	430	273	266*	190	195*
9	450	347	327*	210	230*
10	500	347	327*	210	230*
11	545	397	342*	210	280*
12	615	397	342*	210	280*
13	635	453	433*	290	320*
14	705	453	433*	290	320*
15	762	500	476*	290	400*
16	808	500	476*	290	400*
17	860	532	508*	290	400*
18	920	532	508*	290	400*



注：不带*列为采用国产逆止器、超越离合器时尺寸，带*列为选用国外逆止器、超越离合器时尺寸。
Note: Without * is the dimension using domestic backstop and overrunning clutch and with * is the dimension using imported backstop and ocerrunning clutch.

*EQ Series

行星齿轮减速机
Planetary Gear Reducer



EVERGEAR

① 概述 Overview:

1.EQ系列是一种具有一个或两个自由度轮系的齿轮减速机。
2.设计模块化，可灵活变化组合类型。
3.体积小、重量轻、传动比范围大、效率高、工作平稳。
4.箱体采用高刚性及高抗震性的球墨铸铁材料。
5.输入方式：同轴式、平行轴式、直交轴式、直交平行轴式。
6.输出方式：胀紧盘空心轴渐开线花键空心轴（DIN标准），渐开线花键空心轴（国标），平键实心轴，渐开线花键实心轴（DIN标准），渐开线花键实心轴（国标）。

1.EQ series is a kind of gear speed reducer with one or two free wheels.
2.Combination types can be freely changed with Modulized Design.
3.Small volume, light weight, large range of transmission ratio, high efficiency and stable operation.
4.The tank body is made of ductile iron of high rigidity and high anti-shock performance.
5.Input mode: coaxial type, parallel shaft type,right angle shaft type, right angle parallel shaft type.
6.Output mode: expansion plate hollow shaft, involute spline hollow shaft(DIN standard), involute spline hollow shaft(national standard), flat key solid shaft, involute spline solid shaft(DIN standard), involute Spline solid shaft(national standard).

② 场所条件 Working Environment:

1.环境温度-40℃-50℃。（0℃以下启动时润滑油需加热到0℃以上。）
2.海拔不超过1000米。
3.相对湿度85%以下。
4.输入转速不大于1800r/min。
5.可用于正反运转。
6.无行业限制。
7.其它条件下请与我们联系。

1.Working temperature:-40℃-50℃(The lubrication should be heated until above 0℃ if the machine works blow 0℃.)
2.The working place should be lower than 1,000 meters above sea level.
3.Relative humidity: less than 85%.
4.The input rotational speed should not exceed 1800r/min.
5.Suitable for normal-reverse rotation.
6.Without industry limitation.
7.Please consult us for other circumstances.

③ 选型指南 Instructions for Selection

EQ系列减速机的选用须从机械强度及热平衡容量两项内容进行校核。
During the selection of EQ series speed reducer, verification to mechanical strength and thermal balance capacity shall be made.

1.传动比计算 Calculation of transmission ratio

$$i = \frac{n_1}{n_2}$$

式中 In the formula

- i 所需传动比 Required transmission ratio
- n_1 输入转速r/min Input rotation speed r/min
- n_2 输出转速r/min Output rotation speed r/min

2.减速机规格确定 Confirmation of speed reducer specification

a.所需输入功率计算 Calculation of requird input power

$$P_1 = \frac{T_2 \times n_1}{9550 \times i \times \eta}$$

式中 In the formula

- P_1 所需输入功率（kw） Required input power[kw]
- T_2 所需输出转矩（N · m） Output torque[N·m]
- η 传动效率 Transmission efficiency

型号Type	EQ2N	EQ2L	EQ2S	EQ2K	EQ3N	EQ3S	EQ3K
传动效率(η)Transmission efficiency	94%	93%	93%	91%	92%	91%	89%

b.所需输出转矩计算 Calculation of required output torque

$$T_2 \leqslant \frac{T_{N2}}{f_1 \times f_2}$$

式中 In the formula

- T_{N2} 额定输出转矩（N · m） Rated output torque（N·m）
- T_2 所需输出转矩（N · m） Required output torque（N·m）
- f_1 输出被驱动设备系数 见表 2 Coefficient of output driven device See the table 2
- f_2 输入原动机系数 见表 1 Coefficiend of input prime mover See the table 1

c.所需输入功率校核 Verification of required input power

$$P_{N1} \geqslant P_1 \times f_1 \times f_2$$

若3.33×$P_1 \geqslant P_{N1}$则符合要求，反之则咨询我们。
If 3.33×$P_1 \geqslant P_{N1}$, the requirement is met.Otherwise, please consult us.

式中 In the formula

- P_{N1} 额定输入功率（kw） Rated input power（kw）
- P_1 所需输入功率（kw） Requird input power（kw）

3.峰值转矩校核 Check for maximum torque

$$T_{max} \leqslant \frac{P_1 \times 9550}{n_1 \times f_{max}}$$

式中 In the formula

- T_{max} 最大输入转矩（N · m） Maximum input torque（N·m）
- f_{max} 最大转矩系数见下表 Maximum torque coefficient See the table

每小时峰值负荷次数 Per hour maximum torque times / 载荷种类 Type of loading	最大转矩系数 Coeffcient of maximum torque			
	1–5	6–30	31–100	＞100
单项载荷 Single direction load	0.5	0.65	0.7	0.85
交变载荷 Bending load	0.7	0.95	1.1	1.25

4.输出轴径向力校核（F_r）
Verification of radial force of output shaft(F_r)

EQ 系列 F_{r2}(N) 表:
EQ series F_{r2}(N) table:

n_1 (r/min)	n_{2N}	i_N	F_{r2}(N) 9	10	11	12	13	14	16	17	18	19−20	21−22	23−24	25−26	27−28
1450	58.0	25	9538	23353	32518	42407	34737	41183	72297	64454	69713	70477	99136	99347	123583	126071
	51.8	28	9905	24252	33770	44039	36075	42768	75080	66935	72396	73190	102952	103171	128341	130925
	46.0	31.5	10302	25223	35122	45803	37519	44481	78086	69616	75295	76121	107075	107302	133480	136167
	40.8	35.5	10720	26249	36550	47665	39044	46289	81261	72446	78356	79215	111428	111665	138907	141703
	36.3	40	11155	27314	38033	49599	40629	48167	84559	75386	81536	82430	115950	116196	144544	147454
	32.2	45	11602	28408	39556	51585	42256	50096	87945	78404	84801	85731	120593	120849	150332	153358
	29.0	50	12017	29423	40970	53429	43766	51887	91088	81207	87832	88795	124903	125169	155705	158840
	25.9	56	12479	30556	42547	55486	45451	53884	94595	84333	91214	92214	129712	129988	161700	164955
	23.0	63	12979	31779	44251	57708	47271	56042	98383	87710	94866	95906	134906	135193	168175	171560
	20.4	71	13507	33071	46050	60054	49193	58320	102382	91276	98723	99805	140390	140689	175011	178534
	18.1	80	14055	34413	47919	62491	51189	60687	106537	94980	102729	103856	146088	146398	182114	185780
	16.1	90	14618	35791	49838	64993	53239	63117	110803	98783	106843	108014	151937	152260	189406	193219
	14.5	100	15140	37071	51619	67316	55142	65373	114764	102314	110662	111875	157368	157703	196176	200125
	12.9	112	15723	38498	53606	69908	57265	67890	119182	106253	114922	116182	163427	163774	203729	207830
	11.6	125	16309	39933	55605	72514	59400	70421	123626	110215	119207	120514	169520	169880	211325	215578
	10.4	140	16937	41471	57746	75306	61687	73132	128385	114458	123796	125153	176046	176420	219460	223878

备注：各规格更低的输出转速按以上最大的F_{r2}值。
Note:If there is lower output speed, please choose the maximum F_{r2} in above table.

5.功率利用率计算
Calculation of power utilization rate

$$\text{功率利用率 Power utilization rate} \leqslant \frac{P_1}{P_{N1}} \times 100\%$$

式中
In the formula

- P_1 所需输入功率（kw） Required input power（kw）
- P_{N1} 额定输入功率（kw） Rated input power（kw）

6.功率利用率系数确定f_P
Confirmation coefficient of power utilization rate f_P

功率利用率系数 Coefficient of power utilization rate \ 功率利用率 Power utilization rate	30%	40%	50%	60%	70%	80%	90%	100%
f_P	0.66	0.77	0.83	0.90	0.90	0.95	1.0	1.0

7.热功率校核
Verification of thermal power

$$P_1 \leqslant P_G$$

$$P_G = P_{G1} \times f_3 \times f_P$$

式中
In the formula

- P_1 所需输入功率（kw） Required input power（kw）
- P_G 所需热功率（kw） Required thermal power（kw）
- P_{G1} 额定热功率（kw）见热功率表 Rated thermal power（kw） See the thermal power table

每小时工作周期 Working cycle per hour \ 环境温度 Ambient temperature		10℃	20℃	30℃	40℃	50℃
环境温度系数 Ambient temperature factor (f_3)	100%	1.14	1.00	0.87	0.71	0.55
	80%	1.20	1.06	0.93	0.75	0.58
	60%	1.32	1.16	1.00	0.82	0.64
	40%	1.54	1.35	1.18	0.96	0.74
	20%	2.04	1.79	1.56	1.27	0.98

8.最后根据输入、输出方式安装方位等内容确定准确型号。
Finally confirm the accurate model according to such contents as input and output modes, and installation position.

9.符号说明
Symbol description

符号	说明
T_{max}	最大输入转矩（N.m） Maximum input torque（N.m）
F_{r2}	允许径向力（N） permissible radial forces（N）
P_{G1}	不带辅助冷却装置齿轮箱热功率（kw） Thermal capacity for gear units without auxiliary cooling（kw）
f_P	设备功率利用率系数 Utilization factor
f_3	环境温度系数 Ambient temperature factor
f_{max}	最大扭矩系数 Maximum torque coefficient
f_2	原动机系数 Driven factor
f_1	被驱动设备系数 Driven machine factor
ED	每小时工作周期 Working cycle per hour
i	所需传动比 Requied ratio
n_1	输入转速（r/min） Input speed（r/min）
n_2	输出转速（r/min） Output speed（r/min）
P_1	所需输入功率（kw） Requied input power（kw）
T_2	所需输出转矩（N.m） Requied output torque（N.m）
η	传动效率（%） Efficiency（%）
T_{N2}	额定输出转矩（N.m） Nominal output torque（N.m）
P_{N1}	额定输入功率（kw） Nominal input power（kw）
P_G	所需热功率（kw） Requied thermal power（kw）

④ 型号说明
Model explanation

EQ - 2 - K - D - 18 - Y37 - 6P - 280 - B5 - 70 - CW

- CW: 输入轴旋转方向（面对输入轴看CW为顺时针、CCW为逆时针）Rotation diretion of input shaft (clockwise for CW and counterclockwise for CCW when seen on facing input shaft)
- 70: 附件代号 Symbols of add-on pieces
- B5: 安装方位 Mounting position
- 280: 传动比 Ratio
- 6P: 电机级数 Motor pole
- Y37: 电机代号 Motor code
- 18: 机座号 Gear unit size
- D: 输出方式 Output mode
- K: 减速机种类 Type of speed reducer
- 2: 传动级数 Transmission grade
- EQ: 行星减速机代号 Code of planet speed reducer

1.传动级数：2级或3级
Transmission grade:level 2 or level 3

2.减速机种类：
Type of speed reducer:

N	同轴式 Coaxial type	L	直交轴式 Right angle shaft type
S	平行轴式 Parallel shaft type	K	直交、平行轴式 Right angle parallel shaft type

3.输出方式：
Output mode：

D	胀紧盘空心轴 Hollow shaft with shrink disk	S	平键实心轴 Flat key solid shaft
KH	渐开线花键空心轴（DIN标准） Hollow shaft with involute spline(DIN standard)	KS	渐开线花键实心轴（DIN标准） Involute spline solid shaft（DIN standard）
KHG	渐开线花键空心轴（国标） Hollow shaft with involute spline（national standard）	KSG	渐开线花键实心轴（国标） Involute spline solid shaft（national standard）

⑤ 选型示例
Example of model selection

已知一煤炭输送设备，输入转速为1500r/min，最大起动转矩为95N · m，输出转矩为10500N · m，输出转速为5.6r/min，每天工作12小时，每小时起动次数为8次，每小时工作周期ED=60%，环境温度为35℃，通风大车间安装水平法兰安装，偏心平行轴输入胀紧盘空心轴输出。

Known the coal conveying device with input rotation speed 1500r/min, maximum starting torque 95N·m, output torque 10500N·m, output rotation speed 5.6r/min, working hours per day 12 hours, starting times per hour 8 times, working cycle per hour ED=60%, ambient temperature 35℃, ventilating large workingshop installation level, flange installation, eccentric parallel shaft input and expansion plate hollow shaft output.

解 Solution

1.传动比计算 Calculation of transmission ratio

$$i = \frac{n_1}{n_2} = \frac{1500}{5.6} = 267.86$$

则选类型为EQ3S i=280
Then the model is selected as EQ3S i=280

2.减速机规格确定 Confirmation of speed reducer specification

a.所需输入功率计算 查表 η=0.91
a.Calculation of required input powerCheck the tablen=0.91

$$P_1 = \frac{T_2 \times n_1}{9550 \times i \times \eta} = \frac{10500 \times 1500}{9550 \times 280 \times 0.91} = 6.47kw$$

b.所需输出转矩计算
b.Calculation of required output torque

$$T_{N2} \geqslant T_2 \times f_2 \times f_1 = 10500 \times 1.5 \times 1 = 15.75kN \cdot m$$

c.所需输入功率校核
c.Verification of required input power

$$P_{N1} \geqslant P_1 \times f_2 \times f_1 = 6.47 \times 1.5 \times 1 = 9.7kw$$

初选 EQ3SD9−280−B53
Primary selection EQ3SD9-280-B53

$$3.3 \times P_1 = 3.3 \times 6.47 = 21.31kw > P_{N1} = 13.5kw$$

故合格
So qualified

3.热功率校核 Verification of thermal power

$$\text{功率利用率 Power utilization rate} = \frac{P_1}{P_{N1}} \times 100\% = \frac{6.47}{13.5} \times 100\% = 47.9\%$$

则功率利用率系数f_P=0.77 查f_3=1
Then the coefficient of power utilization rate f_P=0.77 Check f_3=1

减速机不带辅助冷却装置时
When the speed reducer is not provided with auxiliary cooling device

$$P_G = P_{G1} \times f_3 \times f_P = 23 \times 0.77 \times 1 = 17.71kw > P_1$$

故无须加装辅助冷却装置就可满足要求。
So the requirement can be met without the need of adding auxiliary cooling device.

4.润滑方式 Lubricating mode

飞溅润滑 Spattering lubrication
后选减速器型号为 Then select the model of the speed reducer as EQ3SD9 − 280 − B53

表1 工作机系数 f_1 Table1 Factor for driven machine f_1

工作机	Driven machines	日带载运行时间（小时）		
		≤0.5	>0.5-10	>10
污水处理	**Waste water treatment**			
浓缩器(中心传动)	Thickeners (central drive)	–	–	1.2
压滤机	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 equipmen	1.0	1.2	1.3
纵向、回转组合式搂集装置	Combined longitudi-nal and rotary rakes	1.0	1.3	1.5
预浓缩器	Pre-thickeners	–	1.1	1.3
螺杆泵	Screw pumps	–	1.3	1.5
水轮机	Water turbines	–	–	2.0
泵	**Pumps**			
离心泵	Centrifugal pumps	1.0	1.2	1.3
容积式泵	Positive-displace- ment pumps			
1个活塞	1 piston	1.3	1.4	1.8
>1个活塞	>1 piston	1.2	1.4	1.5
挖泥机	**Dredgers**			
斗式输送机	Bucket conveyors	–	1.6	1.6
倾卸装置	Dumping devices	–	1.3	1.5
履带式行走机构	Carterpillar travel-ling gears	1.2	1.6	1.8
斗轮式挖掘机	**Dredgers**			
用于料堆捡拾	Bucket wheel excavators	–	1.7	1.7
用于原生岩土	As pick-up	–	2.2	2.2
采掘机机头	For primitive material Cutter heads	–	2.2	2.2
采掘臂回转*	Slewing 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
橡胶研光机	Rubber calenders	–	1.5	1.5
冷却圆筒	Gaoling drums	–	1.3	1.4
混匀机，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 me-dia with**			
均匀介质	Uniform density	1.0	1.3	1.5
非均匀介质	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	1.4	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 filter	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
轨道	**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

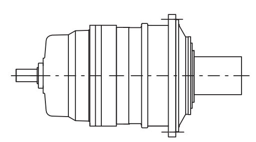
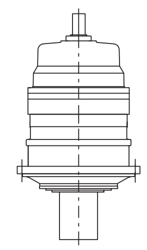
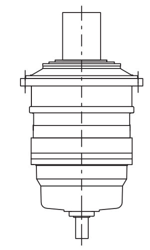
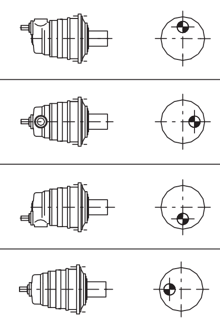
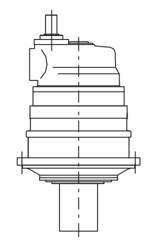
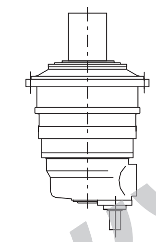
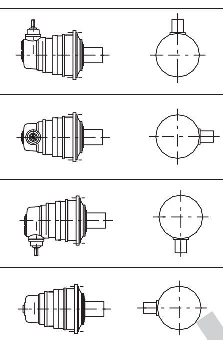
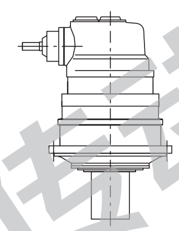
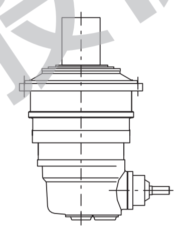
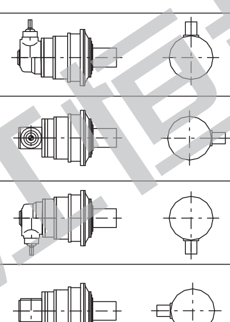
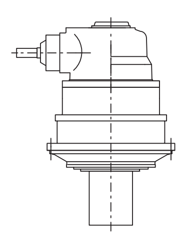
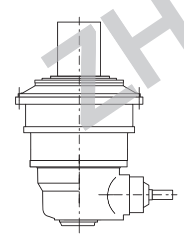
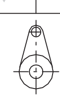
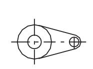
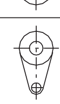
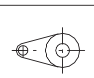
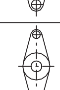
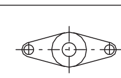
工作机	Driven machines	日带载运行时间（小时）		
		≤0.5	>0.5-10	>10
轧机	**Rolls**			
可逆式开还机	Reversing blooming mills	–	2.5	2.5
可逆式板还轧机	Reversing stabbing mills	–	2.5	2.5
可逆式线材轧机	Reversing wire mills	–	1.8	1.8
可逆式薄板轧机	Reversing sheet mills	–	2.0	2.0
可逆式中厚板轧机	Reversing plate mills	–	1.8	1.8
辊缝调节驱动装置	Roll adjustment drives	0.9	1.0	–
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≤150 kW	Belt conveyors≤150 kW	1. 0	1.2	1.3
皮带输送机≥150 kW	Belt conveyors≥150 kW	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	**Frequency converters**	–	1.5	–
柱塞式压缩机	**Reciprocating compressors**	–	1.8	1.9
起重机械	**Cranes**			
回转机构* *	Slewing gears* *	1.0	1.4	1.8
俯仰机构* *	Luffing gears* *	1.0	1.1	1.4
行走机构* *	Travelling gears* *	1.1	1.6	2.0
起升机构* *	Hoisting gears* *	1.0	1.1	1.4
转臂式起重机* *	Derricking jib cranes* *	1.0	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
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	Extraction plants	–	–	1.4
机械制冷机	Mechanical refrigerators	–	–	1.4
蒸煮机	Juice boilers	–	–	1.4
甜菜清洗机	Sugar beet washing machines,	–	–	1.4
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(敬请垂询)	Pulper drives (on request)	–	2	2.25
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
往复式空中索道	To-and-fro system	–	1.6	1.8
拖牵式索道	Aerial ropeways	–	1.3	1.4
循环式索道	T-bar lifts 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

工作机额定功率P2的确定：*)按最大扭矩确定额定功率；**)检验热功率是绝对必要的。

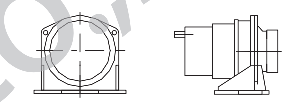
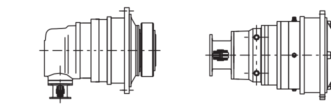
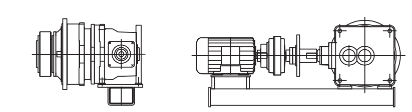
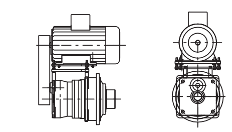
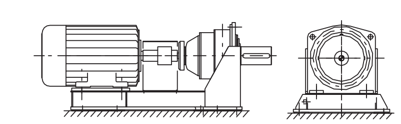
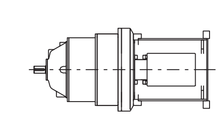
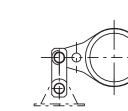
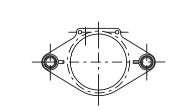
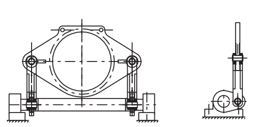
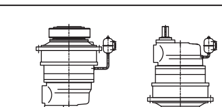
表2 输入原动机系数表 f_2 Table2 Coefficient table of input prime mover f_2

输入方式 Input mode	电机、液压马达、汽轮机 Electric motors, hydraulic motors,burbines	4-6缸活塞发动机 Piston engines 4-6 cylinders	1-3缸活塞发动机 Piston engines 1-3 cylinders
输入系数f_2 Input coefficient f_2	1.0	1.25	1.5

安装方位
Identifications of shaft arrangements:

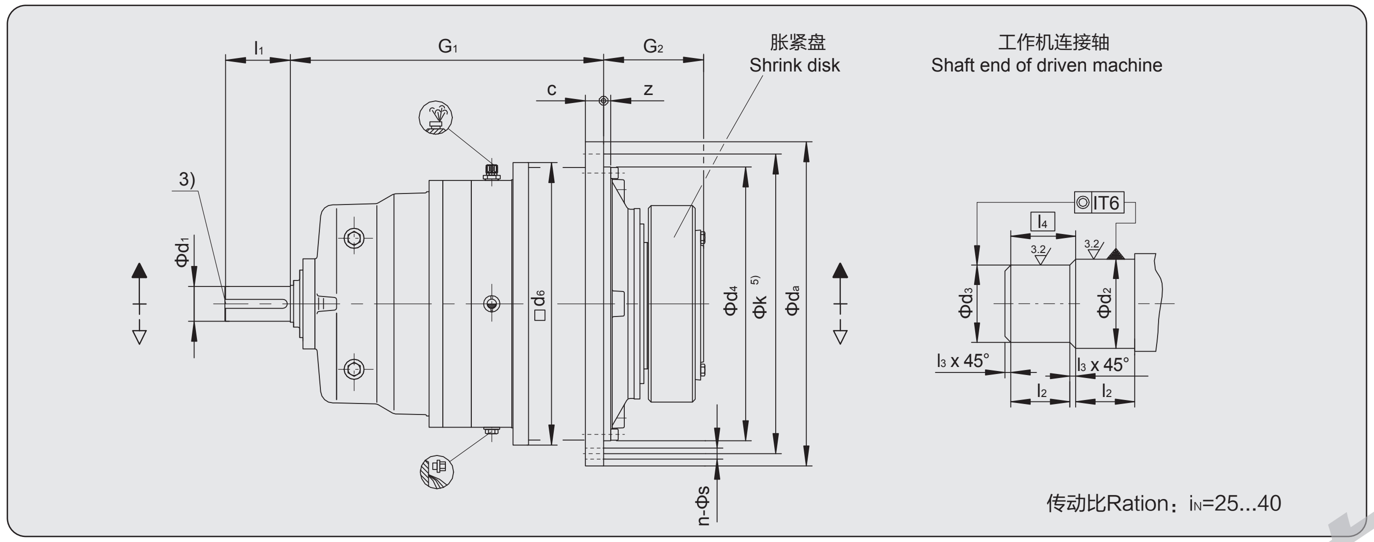
水平安装 Horizontal gear unit position			垂直安装 *) Vertical gear unit position	
同轴式 Coaxial	EQ.N.	 B5	 V1	 V3
平行轴式 Parallel shaft type	EQ.S.	 *) B51, B52, B53, B54	 V11	 V31
直交 平行轴式 Right angle parallel shaft type	EQ.K.	 *) B51, B52, B53, B54	 V11	 V31
直交轴式 Right angle shaft type	EQ.L.	 *) B51, B52, B53, B54	 V11	 V31
扭力臂安装 Install-ation of torque arm	 A51	 A52	*) 对于B51、V1、V3、V11、V31安装方位时，需考虑齿轮箱的润滑，请与我们联系。 *) For installation positions of B51, V1, V3, V11, V31, if it is necessary to consider the lubrication of gear box, please contact us.	
	 A53	 A54		
	 A55	 A56		

附件
Add-on piece

代号 code	附件 Add-on piece		示例 Representation
99	无附件 Without add-on piece		
96	减速器底座 Gear housing base	见398页 See page 398	
70	电机钟形支座 Motor bell housing	见405-410页 See page 405-410	
71	电机托架 Motor bracket	见402页 See page 402	
72	电机支架 Motor bracket	见402页 See page 402	
73	摆动底座 Motor swing-base		
74	钟形支座(输出) Bell housing(output)		
75	扭矩支撑臂(一端) Torque reaction arm (on one sides)	见399页 See page 399	
76	扭矩支撑臂(二端) Torque reaction arm (on two sides)	见400页 See page 400	
77	扭力轴支撑 Torsion shaft support	见401页 See page 401	
87	立式安装补偿油箱 Oil Compensating Tank for Vertical Mounting Positionort	见403页 See page 403	

EQ系列行星减速器外型尺寸图及传动能力表
EQ Series Planetary gear units outline dimension sheet and transmission capacity

类型 TYPES EQ2ND
规格 SIZES 9...36



EQ2ND 机座号 Size	额定输出扭矩 output torque T_{2N} (N · m)	输入轴尺寸 Input shaft dimension d_1 1)	l_1	工作机连接轴 Shaft end of driven machine d_2 4) g6	d_3 4) g6	l_2	l_3	$\boxed{l_4}$	c	d_a	d_4 h7	d_6	G_1	G_2	k	Z	法兰孔 Flange bolts 孔径 Diameter S	数量 Qty. n	2) 重量 Weight (kg)	油量 Qil quantity (l)
9	22000	55	90	120	115	65	2.5	67.5	24	428	350	356	469	165	388	6	18	24	145	6
10	31000	55	90	130	125	70	2.5	72.5	28	472	394	400	489	174	436	8	18	28	195	8
11	42000	70	120	140	135	82.5	2.5	85.0	32	525	425	436	579	204	485	8	22	20	280	12
12	60000	70	120	160	155	90	2.5	92.5	34	605	495	510	593	224	555	9	26	20	425	16
13	83000	80	140	180	175	95	2.5	97.5	39	645	535	554	714	241	595	11	26	24	540	20
14	117000	80	140	210	205	105	2.5	107.5	42	720	610	629	737	278	665	9	26	32	805	32
16	160000	95	160	230	225	110	2.5	112.5	44	770	660	680	851	285	715	10	26	26	1030	40
17	202000	95	160	250	245	120	2.5	122.5	50	895	750	775	877	294	830	10	33	24	1500	56
18	244000	110	180	260	255	120	2.5	122.5	50	930	785	815	1006	303	865	10	33	32	1900	66
19	295000	110	180	280	275	135	2.5	137.5	56	980	840	870	1029.5	327.5	915	12	33	36	2000	82
20	354000	110	180	300	295	135	2.5	137.5	56	980	840	870	1029.5	327.5	915	12	33	36	2100	75
21	392000	120	210	310	305	152	2.5	154.5	62	1115	935	960	1046	354	1025	24	39	32	2650	110
22	450000	120	210	330	325	152	2.5	154.5	62	1115	935	960	1046	354	1025	24	39	32	2800	95
23	513000	130	210	350	345	164	2.5	166.5	68	1210	1025	1056	1150	380	1120	28	39	36	3450	150
24	592000	130	210	360	355	164	2.5	166.5	68	1210	1025	1056	1150	380	1120	28	39	36	3900	125
25	684000	140	240	380	375	180	2.5	182.5	74	1320	1115	1150	1241	407	1220	29	45	36	4750	190
26	763000	140	240	400	395	180	2.5	182.5	74	1320	1115	1150	1241	407	1220	29	45	36	5150	160
27	852000	150	240	430	425	191	2.5	193.5	81	1460	1215	1248	1379	453	1345	31	52	32	6100	245
28	950000	150	240	450	445	191	2.5	193.5	81	1460	1215	1248	1379	453	1345	31	52	32	6550	205
29	1060000	160	270	460	450	197.5	5	202.5	87	1565	1320	1355	1457	483	1450	34	52	36	7800	305
30	1200000	160	270	480	470	197.5	5	202.5	87	1565	1320	1355	1457	483	1450	34	52	36	8300	255
31	1330000	170	270	480	470	232	5	237.0	94	1665	1400	1443	1607	538	1545	36	62	32	10200	380
32	1500000	170	270	510	500	232	5	237.0	94	1665	1400	1443	1607	538	1545	36	62	32	10700	315
33	1680000	180	310	530	520	242	5	247.0	100	1755	1495	1536	1683	573	1635	36	62	36	12350	460
34	1920000	180	310	570	560	242	5	247.0	100	1755	1495	1536	1683	573	1635	36	62	36	13150	380
35	2240000	190	310	600	590	272	5	277.0	112	1945	1685	1720	1899	656	1825	40	62	40	17300	645
36	2600000	190	310	640	630	272	5	277.0	112	1945	1685	1720	1899	656	1825	40	62	40	18400	535

1) 当d≤50时公差为k6
当50<d≤100时公差为m6
当5d>100时公差为n6
2) 不含胀紧盘与润滑油的重量
3) 有关平键(符合GB/T1095-1979)与中心孔请参390页
4) 当尺寸≤160时公差为h6
5) 孔的分布类型见389页

1) When shaft diiameter d≤50,tolerance is k6
When shaft diiameter 50<d≤100,tolerance is m6
When shaft diiameter 5d>100,tolerance is n6
2) Weight without shrink disk and oil
3) For parallel key (GB/T1095-1979) and centre hole see page 390
4) ≤160 h6
5) For hole pattern, see page 389

类型 TYPES EQ2N.
规格 SIZES 9...36

额定功率P_N Nominal power ratings (kW)

i_N	n_1	n_2	9	10	11	12	13	14	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
	1/min		规格 Sizes																										
25	1500	60	137	193	261	373	516	728	995	1256	1517	1834	2201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1000	40	91	129	174	249	344	485	663	837	1012	1223	1468	1625	1866	2127	2454	2863	3163	3532	3938	4394	4975	5514	6218	6965	7960	9286	10779
	750	30	68	96	131	187	258	364	497	628	759	917	1101	1219	1399	1595	1841	2127	2372	2649	2954	3296	3731	4135	4664	5223	5970	6965	8084
28	1500	54	123	173	235	336	465	655	895	1131	1366	1651	1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1000	36	82	116	157	224	310	437	597	754	910	1101	1321	1463	1679	1914	2209	2552	2847	3179	3544	3955	4477	4962	5597	6268	7164	8358	9701
	750	27	62	87	118	168	232	327	448	565	683	825	991	1097	1259	1436	1657	1914	2135	2384	2658	2966	3358	3722	4197	4701	5373	6268	7276
31.5	1500	48	109	154	209	298	413	582	796	1005	1214	1468	1761	1950	2239	2552	2945	3403	3796	4238	4726	5273	5970	6616	7462	8358	9551	11143	12934
	1000	32	73	103	139	199	275	388	531	670	809	978	1174	1300	1492	1701	1963	2268	2530	2826	3151	3515	3980	4411	4975	5572	6368	7429	8623
	750	24	55	77	104	149	206	291	398	502	607	734	881	975	1119	1276	1473	1701	1898	2129	2363	2637	2985	3308	3731	4179	4776	5572	6467
35.5	1500	42	96	135	183	261	361	509	696	879	1062	1284	1541	1706	1959	2233	2577	2977	3321	3709	4135	4614	5223	5789	6529	7313	8358	9750	11317
	1000	28	64	90	122	174	241	340	464	586	708	856	1027	1138	1306	1489	1718	1985	2214	2472	2757	3076	3482	3860	4353	4875	5572	6500	7545
	750	21	48	67	91	131	181	255	348	440	531	642	770	853	979	1117	1288	1489	1661	1854	2068	2307	2612	2895	3265	3656	4179	4875	5659
40	1500	38	87	122	165	236	327	461	630	796	961	1162	1394	1544	1772	2020	2331	2694	3005	3355	3741	4175	4726	5238	5907	6616	7562	8822	10240
	1000	25	57	80	109	155	215	303	415	523	632	764	917	1016	1166	1329	1534	1772	1977	2208	2461	2746	3109	3446	3886	4353	4975	5804	6737
	750	19	43	61	83	118	163	230	315	398	480	581	697	772	886	1010	1166	1347	1502	1678	1871	2087	2363	2619	2954	3308	3781	4411	5120

热功率P_{G1}★) Thermal capacities P_{G1}★) (kW)

安装类型 Settings	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31/32	33/34	35/36
狭小空间 1) Small confined spaces	21	26	32	42	49	65	75	92	100	119	142	174	201	242	287	326	366	437
室内大厅 大车间 2) Large halls workshops	29	37	45	60	69	92	106	130	147	169	201	246	285	343	406	462	519	619
室外 3) In the open	39	50	60	80	93	125	143	175	191	228	272	333	386	464	550	626	702	838

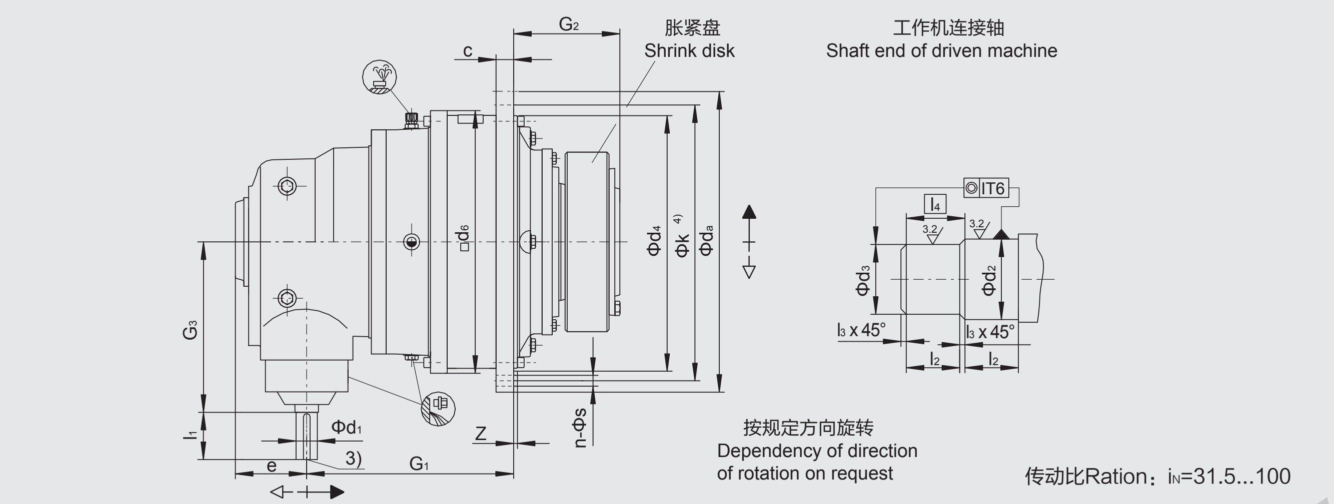
★) 用于水平安装形式，其它安装形式请与我们联系。
1) 风速≥0.5 m/s
2) 风速≥1.4 m/s
3) 风速≥3.7 m/s

★) Values apply to horizontal mounting position,
for other mounting positions please refer to us.
1) Wind velocity≥0.5 m/s
2) Wind velocity≥1.4 m/s
3) Wind velocity≥3.7 m/s

EQ

EQ系列行星减速器外型尺寸图及传动能力表
EQ Series Planetary gear units outline dimension sheet and transmission capacity

类型 TYPES EQ2LD
规格 SIZES 9...36



EQ2LD 机座号 Size	额定输出扭矩 output torque T_{2N} (N·m)	输入轴尺寸 Input shaft dimension i_N≤90 d_1 1)	i_N≤90 l_1	i_N≥100 d_1 1)	i_N≥100 l_1	工作机连接轴 Shaft end of driven machine d_2 5) g6	d_3 5) g6	l_2	l_3	$\boxed{l_4}$	c	d_a	d_4 h7	d_6	e	G_1	G_2	G_3	k	Z	法兰孔 Flange bolts 孔径 Diameter S	数量 Qty. n	2) 重量 Weight (kg)	油量 Qil quantity (l)
9	22000	45	100	35	80	120	115	65	2.5	67.5	24	428	350	356	135	425	165	305	388	6	18	24	159	6
10	31000	45	100	35	80	130	125	70	2.5	72.5	28	472	394	400	135	445	174	305	436	8	18	28	215	8
11	42000	55	110	40	100	140	135	82.5	2.5	85.0	32	525	425	436	210	501	204	350	485	8	22	20	310	12
12	60000	55	110	40	100	160	155	90	2.5	92.5	34	605	495	510	210	515	224	350	555	9	26	20	470	16
13	83000	70	135	50	110	180	175	95	2.5	97.5	39	645	535	554	250	619	241	415	595	11	26	24	595	20
14	117000	70	135	50	110	210	205	105	2.5	107.5	42	720	610	629	250	642	278	415	665	9	26	32	890	32
16	160000	80	165	60	140	230	225	110	2.5	112.5	44	770	660	680	295	705	285	490	715	10	26	36	1137	40
17	202000	80	165	60	140	250	245	120	2.5	122.5	50	895	750	775	295	731	294	490	830	10	33	24	1660	56
18	244000	90	165	70	140	260	255	120	2.5	122.5	50	930	785	815	350	882	303	605	865	10	33	32	2100	66
19	295000	90	165	70	140	280	275	135	2.5	137.5	56	980	840	870	350	905.5	327.5	605	915	12	33	36	2200	82
20	354000	90	165	70	140	300	295	135	2.5	137.5	56	980	840	870	350	905.5	327.5	605	915	12	33	36	2300	75
21	392000	110	205	80	170	310	305	152	2.5	154.5	62	1115	935	960	400	996	354	700	1025	24	39	32	2930	110
22	450000	110	205	80	170	330	325	152	2.5	154.5	62	1115	935	960	400	996	354	700	1025	24	39	32	3100	95
23	513000	110	205	80	170	350	345	164	2.5	166.5	68	1210	1025	1056	400	1055	380	700	1120	28	39	36	3800	150
24	592000	110	205	80	170	360	355	164	2.5	166.5	68	1210	1025	1056	400	1055	380	700	1120	28	39	36	4300	125
25	684000	130	245	100	210	380	375	180	2.5	182.5	74	1320	1115	1150	475	1138	407	835	1220	29	45	36	5250	190
26	763000	130	245	100	210	400	395	180	2.5	182.5	74	1320	1115	1150	475	1138	407	835	1220	29	45	36	5660	160
27	852000	130	245	100	210	430	425	191	2.5	193.5	81	1460	1215	1248	475	1272	453	835	1345	31	52	32	6680	245
28	950000	130	245	100	210	450	445	191	2.5	193.5	81	1460	1215	1248	475	1272	453	835	1345	31	52	32	7180	205
29	1060000	150	245	110	210	460	450	197.5	5	202.5	87	1565	1320	1355	530	1367	483	945	1450	34	52	36	8500	305
30	1200000	150	245	110	210	480	470	197.5	5	202.5	87	1565	1320	1355	530	1367	483	945	1450	34	52	36	9070	255
31-36	根据用户要求供货 On request																							

1) 当d≤50时公差为k6
当50<d≤100时公差为m6
当5d>100时公差为n6
2) 不含胀紧盘与润滑油的重量
3) 有关平键(符合GB/T1095-1979)与中心孔请参390页
4) 孔的分布类型见389页
5) 当尺寸≤160时公差为h6

1) When shaft diiameter d≤50,tolerance is k6
When shaft diiameter 50<d≤100,tolerance is m6
When shaft diiameter 5d>100,tolerance is n6
2) Weight without shrink disk and oil
3) For parallel key (GB/T1095-1979) and centre hole see page 390
4) For hole pattern, see page 389
5) ≤160 h6

类型 TYPES EQ2L.
规格 SIZES 9...36

额定功率P_N Nominal power ratings (kW)

i_N	n_1 r/min	n_2 r/min	9	10	11	12	13	14	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31-36
31.5	1500	47.6	111	156	212	302	418	510	806	865	1230*	1487*	1517*	1976*	2268*	–	–	–	–	–	–	–	–	根据用户要求供货 On request
	1000	31.7	74	104	141	202	279	340	538	577	820	991	1011	1317*	1512*	1724*	1989*	2298*	2564*	2863*	2937*	–	–	
	750	23.8	55	78	106	151	209	255	403	433	615	743	758	988	1134	1293	1492	1724	1923	2147	2203	–	–	
35.5	1500	42.3	98	139	188	268	345	487	716	858	1091*	1319*	1504*	1753*	2013*	–	–	–	–	–	–	–	–	
	1000	28.2	66	92	125	179	247	324	477	572	728	880	1003	1169*	1342*	1530*	1712*	2040*	2275*	2540*	2833*	–	–	
	750	21.1	49	69	94	134	173	243	358	429	546	660	752	877	1006	1147	1284	1530	1706	1905	2124	–	–	
40	1500	37.5	87	123	167	238	306	432	635	802	969*	1171*	1405*	1556*	1786*	–	–	–	–	–	–	–	–	
	1000	25.0	58	82	111	159	204	288	423	535	646	781	937	1037*	1191*	1358*	1567*	1810*	2019*	2255*	2514*	–	–	
	750	18.8	44	62	83	119	153	216	318	401	484	585	703	778	883	1018	1175	1358	1514	1691	1885	–	–	
45	1500	33.3	78	109	148	212	293	413	565	713	861*	1041*	1249*	1383*	1588*	1810*	2089*	–	–	–	–	–	–	
	1000	22.2	52	73	99	141	195	275	376	475	574	694	833	922*	1059*	1207*	1393*	1609*	1795*	2004*	2235*	–	–	
	750	16.7	39	55	74	106	146	206	282	356	430	520	625	692	794	905	1044	1207	1346	1503	1676	1870	2117	
50	1500	30.0	70	98	133	191	264	372	508	641	775	937	1124	1245*	1429*	1629*	1880*	–	–	–	–	–	–	
	1000	20.0	47	66	89	127	176	248	339	428	517	625	749	830	953	1086	1253	1448*	1615*	1804*	2011*	–	–	
	750	15.0	35	49	67	95	132	186	254	321	387	468	562	622	714	815	940	1086	1211	1353	1508	1683	1905	
56	1500	26.8	62	88	119	170	235	332	454	573	692	836	1004	1111*	1276*	1455*	1678*	–	–	–	–	–	–	
	1000	17.9	42	59	79	113	157	221	302	382	461	558	669	741	851	970	1119	1293*	1442*	1610*	1796*	2004*	2268*	
	750	13.4	31	44	60	85	118	166	227	286	346	418	502	556	638	727	839	970	1082	1208	1347	1503	1701	
63	1500	23.8	55	78	106	151	209	295	403	509	615	743	892	988	1134	1293	1492	1724*	1923*	2147*	2394*	–	–	
	1000	15.9	37	52	71	101	139	197	269	339	410	496	595	659	756	862	995	1149	1282	1432	1596	2394*	2016*	
	750	11.9	28	39	53	76	105	147	202	255	307	372	446	494	567	646	746	862	961	1074	1197	1336	1512	
71	1500	21.1	49	69	94	134	186	262	358	452	546	660	792	877	1006	1147	1324	1530	1706	1905	2124	–	–	
	1000	14.1	33	46	63	89	124	174	239	301	364	440	528	584	671	765	883	1020	1138	1270	1416	1580*	1789*	
	750	10.6	25	35	47	67	93	131	179	226	273	330	396	438	503	574	662	765	853	953	1062	1185	1342	
80	1500	18.8	44	62	83	119	165	232	318	401	484	585	703	778	893	1018	1175	1358	1514	1691	1885	–	–	
	1000	12.5	29	41	56	79	110	155	212	267	323	390	468	519	595	679	783	905	1010	1127	1257	2394*	1588*	
	750	9.4	22	31	42	60	82	116	159	200	242	293	351	389	447	509	587	679	757	845	943	1052	1191	
90	1500	16.7	39	55	74	106	146	206	282	356	430	520	625	692	794	905	1044	1207	1346	1503	1676	1870	2117	
	1000	11.1	26	36	49	71	98	138	188	238	287	347	416	461	529	603	696	804	897	1002	1117	1247	1411	
	750	8.3	19	27	37	53	73	103	141	178	215	260	312	346	397	453	522	603	673	752	838	935	1059	
100	1500	15.0	35	49	67	95	132	186	254	321	387	468	562	622	714	815	940	1086	1211	1353	1508	1683	1905	
	1000	10.0	23	33	44	64	88	124	169	214	258	312	375	415	476	543	627	724	808	902	1006	1122	1270	
	750	7.5	17	25	33	48	66	93	127	160	194	234	281	311	357	407	470	543	606	676	754	842	953	

* 要求强制润滑　　* Forced lubrication required

热功率P_{G1} ★) Thermal capacities P_{G1} ★) (kW)

安装类型 Settings	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31 - 36
狭小空间 1) Small confined spaces	14	18	22	29	34	46	52	64	70	83	99	121	141	169	200	根据用户要求供货 On request
室内大厅 2) 大车间 Large halls workshops	20	26	31	41	48	64	74	91	99	118	140	172	199	240	284	
室外 3) In the open	28	35	42	56	65	87	100	123	133	159	190	233	269	324	384	

★) 用于水平安装形式，其它安装形式请与我们联系。
1) 风速≥0.5 m/s
2) 风速≥1.4 m/s
3) 风速≥3.7 m/s

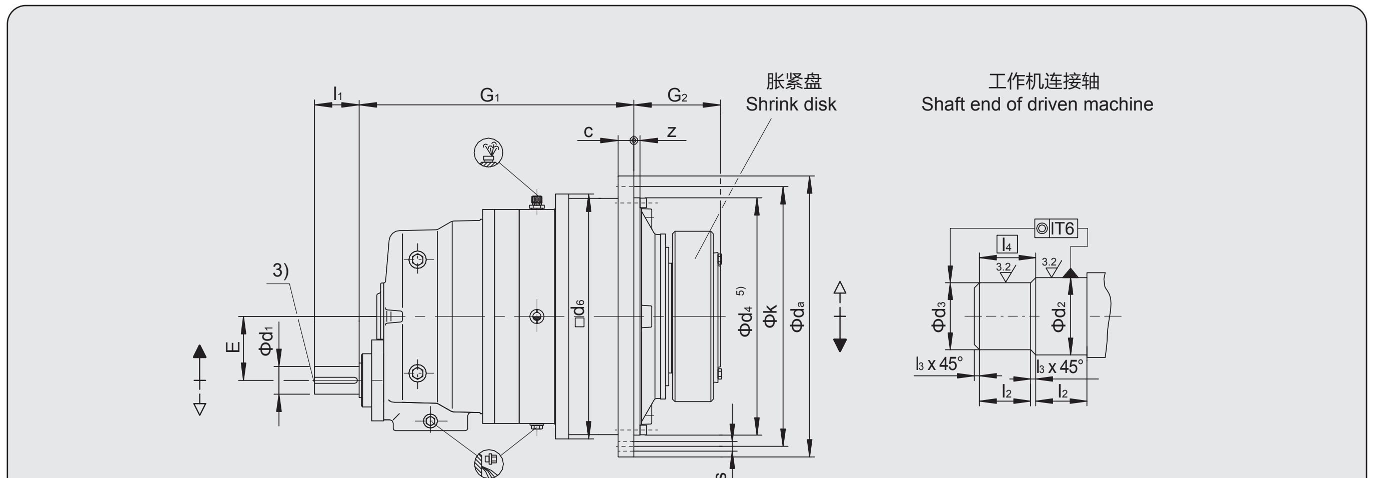
★) Values apply to horizontal mounting position,
for other mounting positions please refer to us.
1) Wind velocity≥0.5 m/s
2) Wind velocity≥1.4 m/s
3) Wind velocity≥3.7 m/s

EQ

EQ

EQ系列行星减速器外型尺寸图及传动能力表
EQ Series Planetary gear units outline dimension sheet and transmission capacity

类型 TYPES EQ2SD
规格 SIZES 9...36



传动比Ration：i_N=45...125

EQ2SD 机座号 Size	额定输出扭矩 output torque T_{2N} (N · m)	输入轴尺寸 Input shaft dimension d_1 1)	l_1	工作机连接轴 Shaft end of driven machine d_2 4) g6	d_3 4) g6	l_2	l_3	$\boxed{l_4}$	c	d_a	d_4 h7	d_6	E	G_1	G_2	k	z	法兰孔 Flange bolts 孔径 Diameter S	数量 Qty. n	重量 Weight (kg) 2)	油量 Oil quantity (l)
9	22000	38	60	120	115	65	2.5	67.5	24	428	350	356	90	469	165	388	6	18	24	160	6
10	31000	38	60	130	125	70	2.5	72.5	28	472	394	400	90	489	174	436	8	18	28	220	8
11	42000	55	90	140	135	82.5	2.5	85.0	32	525	425	436	115	579	204	485	8	22	20	310	12
12	60000	55	90	160	155	90	2.5	92.5	34	605	495	510	115	593	224	555	9	26	20	470	16
13	83000	70	120	180	175	95	2.5	97.5	39	645	535	554	140	714	241	595	11	26	24	600	20
14	117000	70	120	210	205	105	2.5	107.5	42	720	610	629	140	737	278	665	9	26	32	900	32
16	160000	80	140	230	225	110	2.5	112.5	44	770	660	680	170	851	285	715	10	26	36	1150	40
17	202000	80	140	250	245	120	2.5	122.5	50	895	750	775	170	877	294	830	10	33	24	1650	56
18	244000	90	160	260	255	120	2.5	122.5	50	930	785	815	200	1006	303	865	10	33	32	1950	66
19	295000	90	160	280	275	135	2.5	137.5	56	980	840	870	200	1029.5	327.5	915	12	33	36	2400	82
20	354000	90	160	300	295	135	2.5	137.5	56	980	840	870	200	1029.5	327.5	915	12	33	36	2500	75
21	392000	100	180	310	305	152	2.5	154.5	62	1115	935	960	230	1076	354	1025	24	39	32	2900	110
22	450000	100	180	330	325	152	2.5	154.5	62	1115	935	960	230	1076	354	1025	24	39	32	3100	95
23	513000	120	210	350	345	164	2.5	166.5	68	1210	1025	1056	265	1175	380	1120	28	39	36	3800	150
24	592000	120	210	360	355	164	2.5	166.5	68	1210	1025	1056	265	1175	380	1120	28	39	36	4100	125
25	684000	130	210	380	375	180	2.5	182.5	74	1320	1115	1150	300	1291	407	1220	29	45	36	4950	190
26	763000	130	210	400	395	180	2.5	182.5	74	1320	1115	1150	300	1291	407	1220	29	45	36	5350	160
27	852000	140	240	430	425	191	2.5	193.5	81	1460	1215	1248	320	1429	453	1345	31	52	32	6800	245
28	950000	140	240	450	445	191	2.5	193.5	81	1460	1215	1248	320	1429	453	1345	31	52	32	7200	205
29	1060000	150	240	460	450	197.5	5	202.5	87	1565	1320	1355	360	1507	483	1450	34	52	36	8500	305
30	1200000	150	240	480	470	197.5	5	202.5	87	1565	1320	1355	360	1507	483	1450	34	52	36	9000	255
31	1330000	160	270	480	470	232	5	237.0	94	1665	1400	1443	400	1662	538	1545	36	62	32	10500	380
32	1500000	160	270	510	500	232	5	237.0	94	1665	1400	1443	400	1662	538	1545	36	62	32	11200	315
33	1680000	170	270	530	520	242	5	247.0	100	1755	1495	1536	400	1743	573	1635	36	62	36	12700	460
34	1920000	170	270	570	560	242	5	247.0	100	1755	1495	1536	400	1743	573	1635	36	62	36	13500	380
35	2240000	180	310	600	590	272	5	277.0	112	1945	1685	1720	442	1960	656	1825	40	62	40	17800	645
36	2600000	180	310	640	630	272	5	277.0	112	1945	1685	1720	442	1960	656	1825	40	62	40	18900	535

1) 当d≤50时公差为k6
当50<d≤100时公差为m6
当5d>100时公差为n6
2) 不含胀紧盘与润滑油的重量
3) 有关平键(符合GB/T1095-1979)与中心孔请参390页
4) 当尺寸≤160时公差为h6
5) 孔的分布类型见389页

1) When shaft diiameter d≤50,tolerance is k6
When shaft diiameter 50<d≤100,tolerance is m6
When shaft diiameter 5d>100,tolerance is n6
2) Weight without shrink disk and oil
3) For parallel key (GB/T1095-1979) and centre hole see page 390
4) ≤160 h6
5) For hole pattern, see page 389

类型 TYPES EQ2S.
规格 SIZES 9...36

额定功率P_N Nominal power ratings (kW)

i_N	n_1 r/min	n_2 r/min	9	10	11	12	13	14	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
45	1500	33.3	77	108	147	209	290	408	558	705	852	1030	1236	1368	1571	1790	2066	2387	2663	–	–	–	–	–	–	–	–	–	–
	1000	22.2	51	72	98	140	193	272	372	470	568	686	824	912	1047	1194	1377	1592	1775	1982	2210	2466	2792	3095	3490	3909	4467	5212	6050
	750	16.7	38	54	73	105	145	204	279	353	426	515	618	684	785	895	1033	1194	1332	1487	1658	1850	2094	2321	2618	2932	3351	3909	4537
50	1500	30.0	69	97	132	188	261	368	503	635	766	927	1112	1231	1414	1611	1860	2149	2397	–	–	–	–	–	–	–	–	–	–
	1000	20.0	46	65	88	126	174	245	335	423	511	618	741	821	942	1074	1240	1432	1598	1784	1989	2220	2513	2785	3141	3518	4021	4691	5445
	750	15.0	35	49	66	94	130	184	251	317	383	463	556	616	707	806	930	1074	1198	1338	1492	1665	1885	2089	2356	2639	3016	3518	4084
56	1500	26.8	62	87	118	168	233	328	449	567	684	827	993	1099	1262	1439	1660	1918	2140	–	–	–	–	–	–	–	–	–	–
	1000	17.9	41	58	79	112	155	219	299	378	456	552	662	733	841	959	1107	1279	1427	1593	1776	1982	2244	2487	2805	3141	3590	4188	4861
	750	13.4	31	43	59	84	116	164	224	283	342	414	496	550	631	719	830	959	1070	1195	1332	1486	1683	1865	2103	2356	2692	3141	3646
63	1500	23.8	55	77	105	150	207	292	399	504	608	735	886	977	1122	1279	1476	1705	1902	–	–	–	–	–	–	–	–	–	–
	1000	15.9	37	52	70	100	138	194	266	336	406	490	588	651	748	853	984	1137	1268	1416	1579	1762	1994	2210	2493	2792	3191	3723	4321
	750	11.9	27	39	52	75	103	146	199	252	304	368	441	489	561	639	738	853	951	1062	1184	1321	1496	1658	1870	2094	2393	2792	3241
71	1500	21.1	49	69	93	133	184	259	354	447	540	653	783	867	995	1135	1310	1513	1688	–	–	–	–	–	–	–	–	–	–
	1000	14.1	32	46	62	88	122	173	236	298	360	435	522	578	664	757	873	1009	1125	1256	1401	1563	1770	1961	2212	2478	2831	3303	3834
	750	10.6	24	34	46	66	92	129	177	223	270	326	392	434	498	567	655	757	844	942	1051	1172	1327	1471	1659	1858	2124	2478	2876
80	1500	18.8	43	61	82	118	163	230	314	397	479	579	695	770	883	1007	1162	1343	1498	–	–	–	–	–	–	–	–	–	–
	1000	12.5	29	41	50	79	109	153	209	264	319	386	463	513	589	671	775	895	999	1115	1243	1387	1571	1741	1963	2199	2513	2932	3403
	750	9.4	22	30	41	59	81	115	157	198	240	290	347	385	442	504	581	671	749	836	933	1041	1178	1306	1472	1649	1885	2199	2552
90	1500	16.7	38	54	73	105	145	204	279	353	426	515	618	684	785	895	1033	1194	1332	–	–	–	–	–	–	–	–	–	–
	1000	11.1	26	36	49	70	97	136	186	235	284	343	412	456	524	597	689	796	888	991	1105	1233	1396	1547	1745	1954	2234	2606	3025
	750	8.3	19	27	37	52	72	102	140	176	213	257	309	342	393	448	517	597	666	743	829	925	1047	1160	1309	1466	1675	1954	2269
100	1500	15.0	35	49	66	94	130	184	251	317	383	463	556	616	707	806	930	1074	1198	–	–	–	–	–	–	–	–	–	–
	1000	10.0	23	32	44	63	87	123	168	212	255	309	371	410	471	537	620	716	799	892	995	1110	1256	1393	1571	1759	2010	2345	2722
	750	7.5	17	24	33	47	65	92	126	159	192	232	278	308	353	403	465	537	599	669	746	832	942	1044	1178	1319	1508	1759	2042
112	1500	13.4	31	43	59	84	116	164	224	283	342	414	496	550	631	719	830	959	1070	–	–	–	–	–	–	–	–	–	–
	1000	8.9	21	29	39	56	78	109	150	189	228	276	331	366	421	480	553	639	713	797	888	991	1122	1243	1402	1571	1795	2094	2431
	750	6.7	15	22	29	42	58	82	112	142	171	207	248	275	316	360	415	480	535	597	666	743	841	933	1052	1178	1346	1571	1823
125	1500	12.0	28	39	53	75	104	147	201	254	307	371	445	493	565	645	744	859	959	–	–	–	–	–	–	–	–	–	–
	1000	8.0	18	26	35	50	70	98	134	169	204	247	297	328	377	430	496	573	639	714	796	888	1005	1114	1256	1407	1608	1876	2178
	750	6.0	14	19	26	38	52	74	101	127	153	185	222	246	283	322	372	430	479	535	597	666	754	836	942	1055	1206	1407	1633

热功率P_{G1}★) Thermal capacities P_{G1}★) (kW)

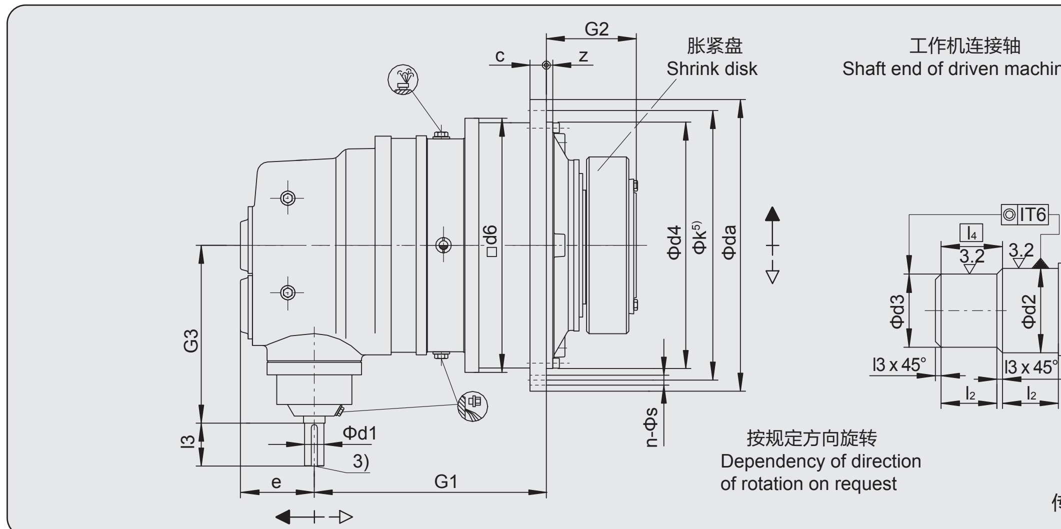
安装类型 Settings	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31/32	33/34	35/36
狭小空间 1) Small confined spaces	15	20	24	32	36	49	56	69	75	89	106	130	151	182	215	245	275	328
室内大厅 大车间 2) Large halls workshops	22	28	34	45	52	69	79	97	106	127	151	185	214	257	305	347	389	464
室外 3) In the open	29	38	45	60	70	94	107	132	143	171	204	250	289	348	412	469	527	628

★) 用于水平安装形式，其它安装形式请与我们联系。
1) 风速≥0.5 m/s
2) 风速≥1.4 m/s
3) 风速≥3.7 m/s

★) Values apply to horizontal mounting position,
for other mounting positions please refer to us.
1) Wind velocity≥0.5 m/s
2) Wind velocity≥1.4 m/s
3) Wind velocity≥3.7 m/s

EQ系列行星减速器外型尺寸图及传动能力表
EQ Series Planetary gear units outline dimension sheet and transmission capacity

类型 TYPES EQ2KD
规格 SIZES 9...20



传动比Ration：i_N=112...500

EQ2KD 机座号 Size	额定输出扭矩 output torque T_{2N} (N · m)	输入轴尺寸 Input shaft dimension i_N≤360 d_1[1)]	i_N≤360 l_1	i_N≥400 d_1[1)]	i_N≥400 l_1	工作机连接轴 Shaft end of driven machine d_2[5)] g6	d_3[5)] g6	l_2	l_3	$\boxed{l_4}$	c	d_a	d_4 h7	d_6	e	G_1	G_2	G_3	k	z	法兰孔 Flange bolts 孔径 Dia-meter S	数量 Qty. n	重量 Weight (kg)[2)]	油量 Qil quan-tity (l)
9	22000	30	70	25	60	120	115	65	2.5	67.5	24	428	350	356	119	339	165	320	388	6	18	24	165	6
10	31000	30	70	25	60	130	125	70	2.5	72.5	28	472	394	400	119	359	174	320	436	8	18	28	227	8
11	42000	35	80	28	60	140	135	82.5	2.5	85	32	525	425	436	137	419	204	375	485	8	22	20	320	12
12	60000	35	80	28	60	160	155	90	2.5	92.5	34	605	495	510	137	433	224	375	555	9	26	20	484	16
13	83000	45	100	35	80	180	175	95	2.5	97.5	39	645	535	554	172	518.5	241	445	595	11	26	24	618	20
14	117000	45	100	35	80	210	205	105	2.5	107.5	42	720	610	629	172	541.5	278	445	665	9	26	32	927	32
16	160000	55	110	40	100	230	225	110	2.5	112.5	44	770	660	680	194	632	285	520	715	10	26	36	1184	40
17	202000	55	110	40	100	250	245	120	2.5	122.5	50	895	750	775	194	658	294	520	830	10	33	24	1700	56
18	244000	70	135	50	110	260	255	120	2.5	122.5	50	930	785	815	240	741.5	303	615	865	10	33	32	2010	73
19	295000	70	135	50	110	280	275	135	2.5	137.5	56	980	840	870	240	765	327.5	615	915	12	33	36	2470	82
20	354000	70	135	50	110	300	295	135	2.5	137.5	56	980	840	870	240	765	327.5	615	915	12	33	36	2550	75
21-26	根据用户要求供货 On request																							

1) 当d≤50时公差为k6
当50<d≤100时公差为m6
当5d>100时公差为n6
2) 不含胀紧盘与润滑油的重量
3) 有关平键(符合GB/T1095–1979)与中心孔请参390页
4) 孔的分布类型见389页
5) 当尺寸≤160时公差为h6

1) When shaft diiameter d≤50,tolerance is k6
When shaft diiameter 50<d≤100,tolerance is m6
When shaft diiameter 5d>100,tolerance is n6
2) Weight without shrink disk and oil
3) For parallel key (GB/T1095–1979) and centre hole see page 390
4) For hole pattern, see page 389
5) ≤160 h6

类型 TYPES EQ2K.
规格 SIZES 9...20

额定功率P_N Nominal power ratings (kW)

i_N	n_1 r/min	n_2 r/min	9	10	11	12	13	14	16	17	18	19	20
112	1500	13.4	30.9	43.6	59.0	84	117	164	225	284	343	415	498
	1000	8.9	20.6	29.0	39.4	56	78	110	150	189	229	276	332
	750	6.7	15.5	21.8	29.5	42	58	82	112	142	171	207	249
125	1500	12.0	27.7	39.0	52.9	76	105	147	201	254	307	372	446
	1000	8.0	18.5	26.0	35.3	50	70	98	134	170	205	248	297
	750	6.0	13.9	19.5	26.4	38	52	74	101	127	154	186	223
140	1500	10.7	24.7	34.9	47.2	67	93	132	180	227	274	332	398
	1000	7.1	16.5	23.2	31.5	45	62	88	120	151	183	221	265
	750	5.4	12.4	17.4	23.6	34	47	66	90	114	137	166	199
160	1500	9.4	21.6	30.5	41.3	59	82	115	157	199	240	290	348
	1000	6.3	14.4	20.3	27.5	39	54	77	105	132	160	193	232
	750	4.7	10.8	15.3	20.7	30	41	58	79	99	120	145	174
180	1500	8.3	19.2	27.1	36.7	52	73	102	140	177	213	258	310
	1000	5.6	12.8	18.1	24.5	35	48	68	93	118	142	172	206
	750	4.2	9.6	13.6	18.4	26	36	51	70	88	107	129	155
200	1500	7.5	17.3	24.4	33.1	47	65	92	126	159	192	232	279
	1000	5.0	11.5	16.3	22.0	31	44	61	84	106	128	155	186
	750	3.8	8.7	12.2	16.5	24	33	46	63	79	96	116	139
225	1500	6.7	15.4	21.7	29.4	42	58	82	112	141	171	206	248
	1000	4.4	10.3	14.5	19.6	28	39	55	75	94	114	138	165
	750	3.3	7.7	10.8	14.7	21	29	41	56	71	85	103	124
250	1500	6.0	13.9	19.5	26.4	38	52	74	101	127	154	186	223
	1000	4.0	9.2	13.0	17.6	25	35	49	67	85	102	124	149
	750	3.0	6.9	9.8	13.2	19	26	37	50	64	77	93	111
280	1500	5.4	12.4	17.4	23.6	34	47	66	90	114	137	166	199
	1000	3.6	8.2	11.6	15.7	22	31	44	60	76	91	111	133
	750	2.7	6.2	8.7	11.8	17	23	33	45	57	69	83	100
320	1500	4.7	10.8	15.3	20.7	30	41	58	79	99	120	145	174
	1000	3.1	7.2	10.2	13.8	20	76	38	52	66	80	97	116
	750	2.3	5.4	7.6	10.3	15	20	29	39	50	60	73	87
360	1500	4.2	9.6	13.6	18.4	26	36	51	70	88	107	129	155
	1000	2.8	6.4	9.0	12.2	17	24	34	47	59	71	86	103
	750	2.1	4.8	6.8	9.2	13	18	26	35	44	53	64	77
400	1500	3.8	8.7	12.2	16.5	24	33	46	63	79	96	116	139
	1000	2.5	5.8	8.1	11.0	16	22	31	42	53	64	77	93
	750	1.9	4.3	6.1	8.3	12	16	23	31	40	48	58	70
450	1500	3.3	7.7	10.8	14.7	21	29	41	56	71	85	103	124
	1000	2.2	5.1	7.2	9.8	14	19	27	37	47	57	69	83
	750	1.7	3.8	5.4	7.3	10	15	20	28	35	43	52	62
500	1500	3.0	6.9	9.8	13.2	19	26	37	50	64	77	93	111
	1000	2.0	4.6	6.5	8.8	13	17	25	34	42	51	62	74
	750	1.5	3.5	4.9	6.6	9	13	18	25	32	38	46	56
560	根据用户要求供货 On request												

热功率P_{G1}[★)] Thermal capacities P_{G1}[★)] (kW)

安装类型 Settings	9	10	11	12	13	14	16	17	18	19 / 20
狭小空间[1)] Small confined spaces	12	15	18	24	28	38	44	53	58	69
室内大厅[2)] 大车间 Large halls workshops	17	22	26	35	40	54	62	76	82	98
室外[3)] In the open	23	29	35	47	54	73	83	102	111	133

★）用于水平安装形式，其它安装形式请与我们联系。
1) 风速≥0.5 m/s
2) 风速≥1.4 m/s
3) 风速≥3.7 m/s

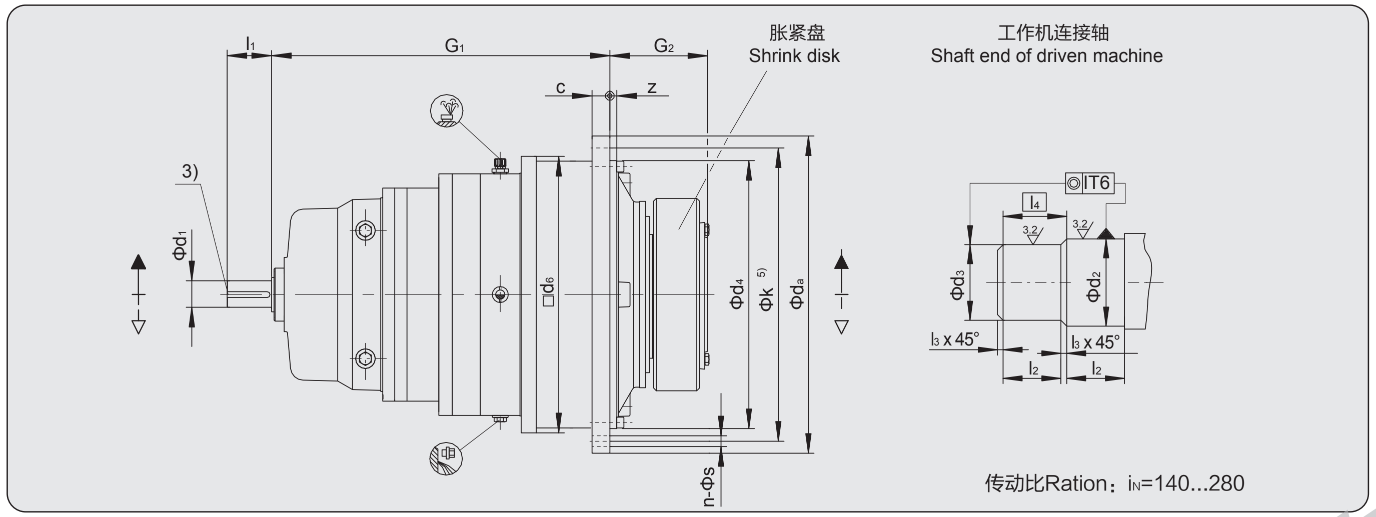
★) Values apply to horizontal mounting position,
for other mounting positions please refer to us.
1) Wind velocity≥0.5 m/s
2) Wind velocity≥1.4 m/s
3) Wind velocity≥3.7 m/s

EQ

EQ

EQ系列行星减速器外型尺寸图及传动能力表
EQ Series Planetary gear units outline dimension sheet and transmission capacity

类型 TYPES EQ3ND
规格 SIZES 9...36



传动比Ration：i_N=140...280

EQ3ND 机座号 Size	额定输出扭矩 output torque T_{2N} (N · m)	输入轴尺寸 Input shaft dimension d_1 1)	l_1	工作机连接轴 Shaft end of driven machine d_2 4) g6	d_3 4) g6	l_2	l_3	$\boxed{l_4}$	c	d_a	d_4 h7	d_6	G_1	G_2	k	z	法兰孔 Flange bolts 孔径 Diameter S	数量 Qty. n	重量 Weight 2) (kg)	油量 Qil quantity (l)
9	22000	55	90	120	115	65	2.5	67.5	24	428	350	356	565	165	388	6	18	24	152	7
10	31000	55	90	130	125	70	2.5	72.5	28	472	394	400	585	174	436	8	18	28	205	9
11	42000	55	90	140	135	82.5	2.5	85.0	32	525	425	436	616	204	485	8	22	20	295	13
12	60000	55	90	160	155	90	2.5	92.5	34	605	495	510	630	224	555	9	26	20	447	17
13	83000	55	90	180	175	95	2.5	97.5	39	645	535	554	688	241	595	11	26	24	567	21
14	117000	55	90	210	205	105	2.5	107.5	42	720	610	629	711	278	665	9	26	32	850	33
16	160000	70	120	230	225	110	2.5	112.5	44	770	660	680	853	285	715	10	26	36	1085	42
17	202000	70	120	250	245	120	2.5	122.5	50	895	750	775	879	294	830	10	33	24	1580	60
18	244000	80	140	260	255	120	2.5	122.5	50	930	785	815	1013	303	865	10	33	32	2000	70
19	295000	80	140	280	275	135	2.5	137.5	56	980	840	870	1036.5	327.5	915	12	33	36	2100	85
20	354000	80	140	300	295	135	2.5	137.5	56	980	840	870	1036.5	327.5	915	12	33	36	2200	75
21	392000	80	140	310	305	152	2.5	154.5	62	1115	935	960	1093	354	1025	24	39	32	2785	115
22	450000	80	140	330	325	152	2.5	154.5	62	1115	935	960	1093	354	1025	24	39	32	2950	105
23	513000	95	160	350	345	164	2.5	166.5	68	1210	1025	1056	1222	380	1120	28	39	36	3625	155
24	592000	95	160	360	355	164	2.5	166.5	68	1210	1025	1056	1222	380	1120	28	39	36	4100	135
25	684000	95	160	380	375	180	2.5	182.5	74	1320	1115	1150	1284.5	407	1220	29	45	36	5000	195
26	763000	95	160	400	395	180	2.5	182.5	74	1320	1115	1150	1284.5	407	1220	29	45	36	5400	170
27	852000	110	180	430	425	191	2.5	193.5	81	1460	1215	1248	1470	453	1345	31	52	32	6400	250
28	950000	110	180	450	445	191	2.5	193.5	81	1460	1215	1248	1470	453	1345	31	52	32	6875	220
29	1060000	110	180	460	450	197.5	5	202.5	87	1565	1320	1355	1517	483	1450	34	52	36	8190	310
30	1200000	110	180	480	470	197.5	5	202.5	87	1565	1320	1355	1517	483	1450	34	52	36	8715	280
31	1330000	120	210	480	470	232	5	237.0	94	1665	1400	1433	1585	540	1545	36	62	32	10700	390
32	1500000	120	210	510	500	232	5	237.0	94	1665	1400	1443	1585	540	1545	36	62	32	11200	360
33	1680000	130	210	530	520	242	5	247.0	100	1755	1495	1536	1710	573	1635	36	62	36	12950	470
34	1920000	130	210	570	560	242	5	247.0	100	1755	1495	1536	1710	573	1635	36	62	36	13800	430
35+36	根据用户要求供货 On request																			

1) 当d≤50时公差为k6
当50<d≤100时公差为m6
当5d>100时公差为n6
2) 不含胀紧盘与润滑油的重量
3) 有关平键(符合GB/T1095-1979)与中心孔请参390页
4) 当尺寸≤160时公差为h6
5) 孔的分布类型见389页

1) When shaft diiameter d≤50,tolerance is k6
When shaft diiameter 50<d≤100,tolerance is m6
When shaft diiameter 5d>100,tolerance is n6
2) Weight without shrink disk and oil
3) For parallel key (GB/T1095-1979) and centre hole see page 390
4) ≤160 h6
5) For hole pattern, see page 389

类型 TYPES EQ3N.
规格 SIZES 9...36

额定功率P_N Nominal power ratings (kW)

i_N	n_1	n_2	9	10	11	12	13	14	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
	r/min																												
140	1500	10.7	24.8	34.9	47.3	68	94	132	180	228	275	332	399	442	507	578	667	711	860	–	–	–	–	–	–	–	–	–	–
	1000	7.1	16.5	23.3	31.5	45	62	88	120	152	183	222	266	294	338	385	445	514	573	640	714	796	901	999	1127	1262	1442	1682	1953
	750	5.4	12.4	17.5	23.7	34	47	66	90	114	137	166	199	221	253	289	333	385	430	480	535	597	676	749	845	946	1082	1262	1465
160	1500	9.4	21.7	30.6	41.4	59	82	115	158	199	241	291	349	386	444	506	584	674	752	–	–	–	–	–	–	–	–	–	–
	1000	6.3	14.5	20.4	27.6	39	55	77	105	133	160	194	233	258	296	337	389	450	501	560	624	697	789	874	986	1104	1262	1472	1709
	750	4.7	10.8	15.3	20.7	30	41	58	79	100	120	145	174	193	222	253	292	337	376	420	468	522	591	656	739	828	946	1104	1281
180	1500	8.3	19.3	27.2	36.8	53	73	103	140	177	214	258	310	343	394	450	519	599	669	–	–	–	–	–	–	–	–	–	–
	1000	5.6	12.9	18.1	24.5	35	48	68	93	118	143	172	207	229	263	300	346	400	446	498	555	619	701	777	876	981	1122	1309	1519
	750	4.2	9.6	13.6	18.4	26	36	51	70	88	107	129	155	172	197	225	259	300	334	373	416	464	526	583	657	736	841	981	1139
200	1500	7.5	17.3	24.4	33.1	47	65	92	126	159	192	233	279	309	355	405	467	539	602	–	–	–	–	–	–	–	–	–	–
	1000	5.0	11.6	16.3	22.1	32	44	62	84	106	128	155	186	206	237	270	311	360	401	448	499	557	631	699	789	883	1009	1178	1367
	750	3.8	8.7	12.2	16.6	24	33	46	63	80	96	116	140	155	177	202	233	270	301	336	375	418	473	524	591	662	757	883	1025
225	1500	6.7	15.4	21.7	29.4	42	58	82	112	142	171	207	248	275	315	360	415	479	535	597	666	743	841	932	1051	1178	1346	1570	1823
	1000	4.4	10.3	14.5	19.6	28	39	55	75	94	114	138	165	183	210	240	277	320	357	398	444	495	561	622	701	785	897	1047	1215
	750	3.3	7.7	10.9	14.7	21	29	41	56	71	86	103	124	137	158	180	207	240	267	299	333	372	421	466	526	589	673	785	911
250	1500	6.0	13.9	19.6	26.5	38	52	74	101	127	154	186	223	247	284	324	373	432	481	538	599	559	757	839	946	1060	1211	1413	1640
	1000	4.0	9.3	13.0	17.7	25	35	49	67	85	103	124	149	165	189	216	249	288	321	358	400	446	505	559	631	707	808	942	1094
	750	3.0	6.9	9.8	13.2	19	26	37	50	64	77	93	112	124	142	162	187	216	241	269	300	334	379	420	473	530	606	707	820
280	1500	5.4	12.4	17.5	23.7	34	47	66	90	114	137	166	199	221	253	289	333	385	430	480	535	597	676	749	845	946	1082	1262	1465
	1000	3.6	8.3	11.6	15.8	23	31	44	60	76	92	111	133	147	169	193	222	257	287	320	357	398	451	499	563	631	721	841	976
	750	2.7	6.2	8.7	11.8	17	23	33	45	57	69	83	100	110	127	144	167	193	215	240	268	299	338	375	422	473	541	631	732

热功率P_{G1}*) Thermal capacities P_{G1}*) (kW)

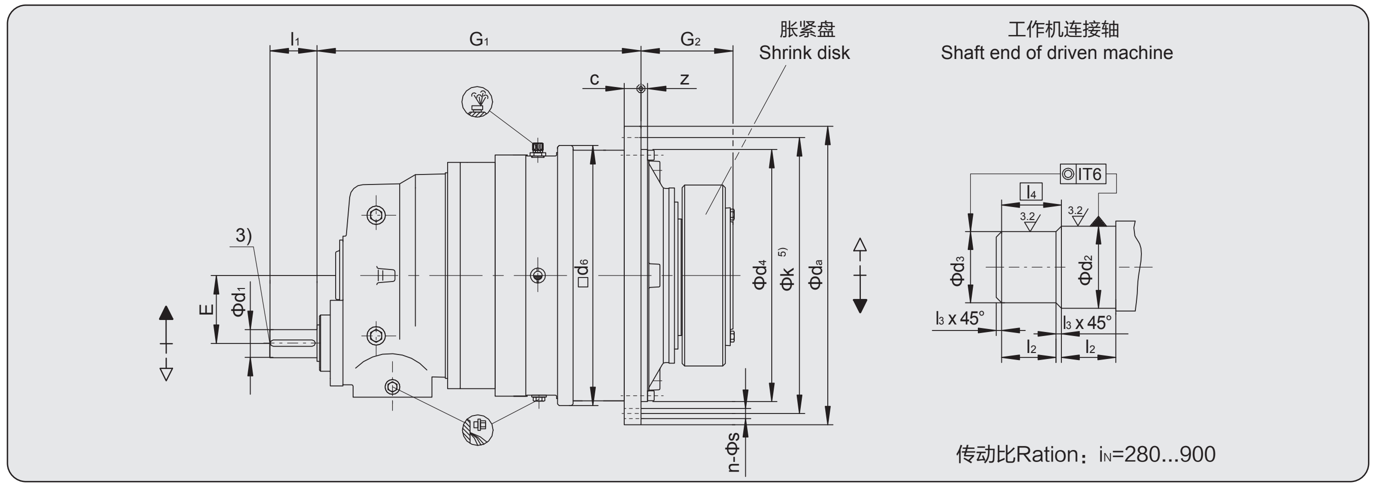
安装类型 Settings	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31/32	33/34	35/36
狭小空间 1) Small confined spaces	14	18	22	29	34	46	52	64	70	83	99	121	141	169	200	228	256	305
室内大厅 大车间 2) Large halls workshops	20	26	31	41	48	64	74	91	99	118	140	172	199	240	284	323	362	432
室外 3) In the open	28	35	42	56	65	87	100	123	133	159	190	233	269	324	384	437	490	585

*) 用于水平安装形式，其它安装形式请与我们联系。
1) 风速≥0.5 m/s
2) 风速≥1.4 m/s
3) 风速≥3.7 m/s

*) Values apply to horizontal mounting position,
for other mounting positions please refer to us.
1) Wind velocity≥0.5 m/s
2) Wind velocity≥1.4 m/s
3) Wind velocity≥3.7 m/s

EQ系列行星减速器外型尺寸图及传动能力表
EQ Series Planetary gear units outline dimension sheet and transmission capacity

类型 TYPES EQ3SD
规格 SIZES 9...36



EQ3SD 机座号 Size	额定输出扭矩 output torque T_{2N} (N · m)	输入轴尺寸 Input shaft dimension d_1 1)	l_1	工作机连接轴 Shaft end of driven machine d_2 4) g6	d_3 4) g6	l_2	l_3	$\boxed{l_4}$	c	d_a	d_4 h7	d_6	E	G_1	G_2	k	z	法兰孔 Flange bolts 孔径 Dia-meter S	数量 Qty. n	2) 重量 Weight (kg)	油量 Qil qua-ntity (l)
9	22000	38	60	120	115	65	2.5	67.5	24	428	350	356	90	565	165	388	6	18	24	170	7
10	31000	38	60	130	125	70	2.5	72.5	28	472	394	400	90	585	174	436	8	18	28	230	9
11	42000	38	60	140	135	82.5	2.5	85.0	32	525	425	436	90	616	204	485	8	22	20	310	13
12	60000	38	60	160	155	90	2.5	92.5	34	605	495	510	90	630	224	555	9	26	20	460	17
13	83000	38	60	180	175	95	2.5	97.5	39	645	535	554	90	688	241	595	11	26	24	584	21
14	117000	38	60	210	205	105	2.5	107.5	42	720	610	629	90	711	278	665	9	26	32	875	33
16	160000	55	90	230	225	110	2.5	112.5	44	770	660	680	115	853	285	715	10	26	36	1115	42
17	202000	55	90	250	245	120	2.5	122.5	50	895	750	775	115	879	294	830	10	33	24	1625	60
18	244000	70	120	260	255	120	2.5	122.5	50	930	785	815	140	1013	303	865	10	33	32	2060	70
19	295000	70	120	280	275	135	2.5	137.5	56	980	840	870	140	1036.5	327.5	915	12	33	36	2160	85
20	354000	70	120	300	295	135	2.5	137.5	56	980	840	870	140	1036.5	327.5	915	12	33	36	2260	75
21	392000	70	120	310	305	152	2.5	154.5	62	1115	935	960	140	1093	354	1025	24	39	32	2870	115
22	450000	70	120	330	325	152	2.5	154.5	62	1115	935	960	140	1093	354	1025	24	39	32	3040	105
23	513000	80	140	350	345	164	2.5	166.5	68	1210	1025	1056	170	1222	380	1120	28	39	36	3730	155
24	592000	80	140	360	355	164	2.5	166.5	68	1210	1025	1056	170	1222	380	1120	28	39	36	4220	135
25	684000	80	140	380	375	180	2.5	182.5	74	1320	1115	1150	170	1284.5	407	1220	29	45	36	5150	195
26	763000	80	140	400	395	180	2.5	182.5	74	1320	1115	1150	170	1284.5	407	1220	29	45	36	5560	170
27	852000	90	160	430	425	191	2.5	193.5	81	1460	1215	1248	200	1470	453	1345	31	52	32	6580	250
28	950000	90	160	450	445	191	2.5	193.5	81	1460	1215	1248	200	1470	453	1345	31	52	32	7080	220
29	1060000	90	160	460	450	197.5	5	202.5	87	1565	1320	1355	200	1517	483	1450	34	52	36	8400	310
30	1200000	90	160	480	470	197.5	5	202.5	87	1565	1320	1355	200	1517	483	1450	34	52	36	8970	280
31	1330000	100	180	480	470	232	5	237.0	94	1665	1400	1443	230	1615	538	1545	36	62	32	11000	390
32	1500000	100	180	510	500	232	5	237.0	94	1665	1400	1443	230	1615	538	1545	36	62	32	11500	360
33	1680000	120	210	530	520	242	5	247.0	100	1755	1495	1536	265	1735	573	1635	36	62	36	13300	470
34	1920000	120	210	570	560	242	5	247.0	100	1755	1495	1536	265	1735	573	1635	36	62	36	14200	430
35+36	根据用户要求供货 On request																				

1) 当d≤50时公差为k6
当50<d≤100时公差为m6
当5d>100时公差为n6
2) 不含胀紧盘与润滑油的重量
3) 有关平键(符合GB/T1095-1979)与中心孔请参390页
4) 当尺寸≤160时公差为h6
5) 孔的分布类型见389页

1) When shaft diiameter d≤50,tolerance is k6
When shaft diiameter 50<d≤100,tolerance is m6
When shaft diiameter 5d>100,tolerance is n6
2) Weight without shrink disk and oil
3) For parallel key (GB/T1095-1979) and centre hole see page 390
4) ≤160 h6
5) For hole pattern, see page 389

类型 TYPES EQ3S.
规格 SIZES 9...36

额定功率P_N Nominal power ratings (kW)

i_N	n_1 r/min	n_2	9	10	11	12	13	14	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
280	1500	5.4	13.5	17.6	24	34	47	67	91	115	139	168	202	223	256	292	337	389	434	485	541	603	683	757	854	956	1093	1275	1480
	1000	3.6	8.3	12	16	23	31	44	61	77	93	112	134	149	171	195	225	260	290	323	361	402	455	505	569	638	729	850	987
	750	2.7	6.3	8.8	12	17	24	33	46	57	69	84	101	112	128	146	168	195	217	242	270	302	342	379	427	478	546	638	740
315	1500	4.8	11	16	21	30	42	59	81	102	123	149	179	198	228	260	300	346	386	431	481	236	607	673	759	850	971	1133	1316
	1000	3.2	7.4	10.5	14	20	28	39	54	68	82	100	119	132	152	173	200	231	257	287	320	358	405	449	506	567	648	756	877
	750	2.4	5.6	7.8	11	15	21	30	40	51	62	75	90	99	114	130	150	173	193	216	240	268	304	336	379	425	486	567	658
355	1500	4.2	10	14	19	27	37	53	72	91	110	132	159	176	202	230	266	307	343	383	427	476	539	597	673	754	862	1006	1167
	1000	2.8	6.7	9.3	13	18	25	35	48	60	73	88	106	117	135	154	177	205	228	255	284	317	359	398	449	503	575	670	778
	750	2.1	5	7	9	13	19	26	36	45	55	66	79	88	101	115	133	154	171	191	213	238	269	299	337	377	431	503	584
400	1500	3.8	8.8	12.4	17	24	33	47	64	80	97	118	141	156	179	204	236	293	304	339	379	422	478	530	598	669	765	893	1036
	1000	2.5	5.8	8.2	11	16	22	31	43	54	65	78	94	104	120	136	157	182	203	226	252	282	319	353	398	446	510	595	691
	750	1.9	4.4	6.2	8	12	17	23	32	40	49	59	71	78	90	102	118	136	152	170	189	211	239	265	299	335	383	446	518
450	1500	3.3	7.8	11	15	21	29	41	57	72	86	104	125	139	159	182	210	242	270	302	336	375	425	471	531	595	680	793	921
	1000	2.2	5.2	7.3	10	14	20	28	38	48	58	70	84	93	106	121	140	162	180	201	224	250	283	314	354	397	543	529	614
	750	1.7	3.4	5..5	7.4	11	15	21	28	36	43	52	63	69	80	91	105	121	135	151	168	188	213	236	266	298	340	397	460
500	1500	3.0	7	10	13.4	19	26	37	51	64	78	94	113	125	143	164	189	218	243	272	303	338	929	424	478	536	612	714	829
	1000	2.0	4.7	6.6	8.9	13	18	25	34	43	52	63	75	83	96	109	126	145	162	181	202	225	255	283	319	357	408	476	553
	750	1.5	3.5	5	6.7	10	13	19	26	32	39	47	56	62	72	82	94	109	122	136	151	169	191	212	239	268	306	357	414
560	1500	2.7	6.3	8.8	12	17	24	33	46	57	69	84	101	112	128	146	168	195	217	242	270	302	342	379	427	478	546	638	740
	1000	1.8	4.2	6	8	11	16	22	30	38	46	56	67	74	85	97	112	130	145	162	180	201	228	252	285	319	364	425	493
	750	1.3	3.1	4.4	6	9	12	17	23	29	35	42	50	56	64	73	84	97	109	121	135	151	171	189	213	239	273	319	370
630	1500	2.4	5.6	7.8	10.6	15	21	30	40	51	62	75	90	99	114	130	150	173	193	216	240	268	304	336	379	425	486	567	658
	1000	1.6	3.7	5.2	7	10	14	20	27	34	41	50	60	66	76	87	100	115	129	144	160	179	202	224	253	283	324	378	439
	750	1.2	2.8	3.9	5.3	8	10	15	20	26	31	37	45	50	57	65	75	87	97	108	120	134	152	168	190	213	243	283	329
710	1500	2.1	4.5	7	9.4	13	19	26	36	45	55	66	79	88	101	115	133	154	171	191	213	238	269	299	337	377	431	503	584
	1000	1.4	3.3	4.5	6.3	9	12	18	24	30	37	44	53	59	67	77	89	102	114	128	142	159	180	199	224	251	287	335	389
	750	1.1	2.5	3.5	4.7	7	9	13	18	23	27	33	40	44	51	58	66	77	86	96	107	119	135	149	168	189	215	251	292
800	1500	1.9	4.4	6.2	8.4	12	17	23	32	40	49	59	71	78	90	102	118	136	152	170	189	211	239	265	299	335	383	446	518
	1000	1.3	2.9	4.1	5.6	8	11	16	21	27	32	39	47	52	60	68	79	91	110	113	126	141	159	177	199	223	255	298	345
	750	0.9	2.2	3.1	4.2	6	8	12	16	20	24	29	35	39	45	51	59	68	76	85	95	106	120	132	149	167	191	223	259
900	1500	1.7	3.4	5.5	7.4	11	15	21	28	36	43	52	63	69	80	91	105	121	135	151	168	188	213	236	266	298	340	397	460
	1000	1.1	2.6	3.7	5	7	10	14	19	24	29	35	42	46	53	61	70	81	90	101	112	125	142	157	177	198	227	364	307
	750	0.8	1.9	2.7	3.7	5	7	10	14	18	22	26	31	35	40	45	52	61	68	75	84	94	106	118	133	149	170	198	230

热功率P_{G1}★) Thermal capacities P_{G1}★) (kW)

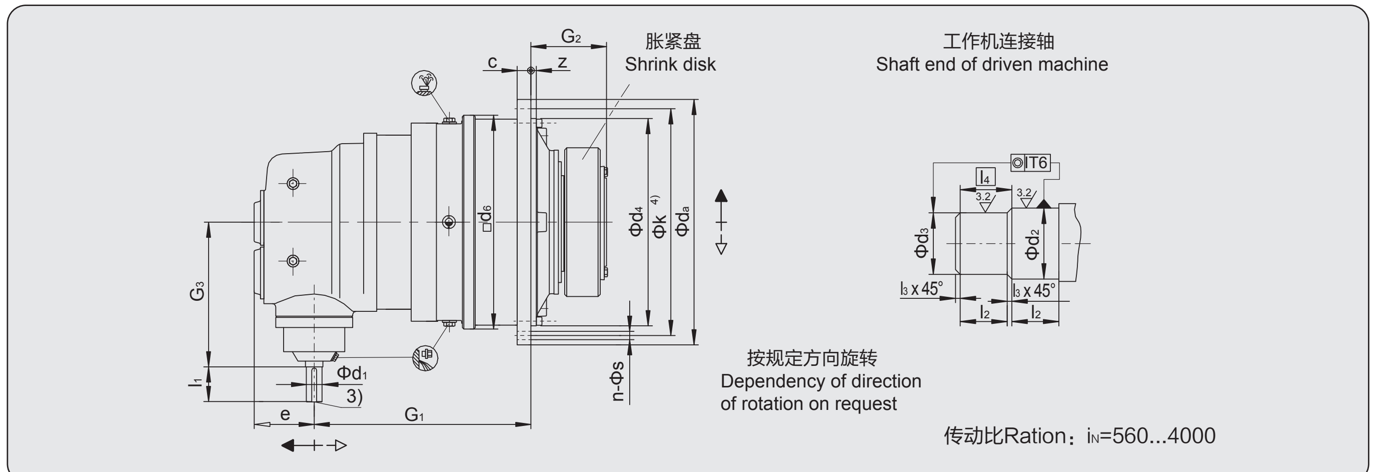
安装类型 Settings	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31/32	33/34	35/36
狭小空间 1) Small confined spaces	12	15	18	24	28	40	43	53	57	69	82	100	116	139	165	188	211	252
室内大厅 大车间 2) Large halls workshops	17	21	26	34	40	53	61	75	81	97	116	142	164	197	234	266	298	356
室外 3) In the open	23	29	35	46	54	72	82	101	110	131	156	192	222	267	316	360	404	482

★) 用于水平安装形式，其它安装形式请与我们联系。
1) 风速≥0.5 m/s
2) 风速≥1.4 m/s
3) 风速≥3.7 m/s

★) Values apply to horizontal mounting position,
for other mounting positions please refer to us.
1) Wind velocity≥0.5 m/s
2) Wind velocity≥1.4 m/s
3) Wind velocity≥3.7 m/s

EQ系列行星减速器外型尺寸图及传动能力表
EQ Series Planetary gear units outline dimension sheet and transmission capacity

类型 TYPES EQ3KD
规格 SIZES 9...30



EQ3KD 机座号 Size	额定输出扭矩 output torque T_{2N} (N · m)	输入轴尺寸 Input shaft dimension i_N≤2000 d_1 1)	i_N≤2000 l_1	i_N≥2240 d_1 1)	i_N≥2240 l_1	工作机连接轴 Shaft end of driven machine d_2 5) g6	d_3 5) g6	l_2	l_3	$\boxed{l_4}$	c	d_a	d_4 h7	d_6	e	G_1	G_2	G_3	k	z	法兰孔 Flange bolts 孔径 Diameter S	数量 Qty. n	2) 重量 Weight (kg)	油量 Qil quantity (l)
9	22000	30	70	25	60	120	115	65	2.5	67.5	24	428	350	356	119	435	165	320	388	6	18	24	180	7
10	31000	30	70	25	60	130	125	70	2.5	72.5	28	472	394	400	119	455	174	320	436	8	18	28	240	9
11	42000	30	70	25	60	140	135	82.5	2.5	85	32	525	425	436	119	486	204	320	485	8	22	20	315	15
12	60000	30	70	25	60	160	155	90	2.5	92.5	34	605	495	510	119	500	224	320	555	9	26	20	470	20
13	83000	30	70	25	60	180	175	95	2.5	97.5	39	645	535	554	119	558	241	320	595	11	26	24	595	21
14	117000	30	70	25	60	210	205	105	2.5	107.5	42	720	610	629	119	581	278	320	665	9	26	32	890	33
16	160000	35	80	28	60	230	225	110	2.5	112.5	44	770	660	680	137	693	285	375	715	10	26	36	1137	42
17	202000	35	80	28	60	250	245	120	2.5	122.5	50	895	750	775	137	719	294	375	830	10	33	24	1660	60
18	244000	45	100	35	80	260	255	120	2.5	122.5	50	930	785	815	172	817.5	303	445	865	10	33	32	2100	70
19	295000	45	100	35	80	280	275	135	2.5	137.5	56	980	840	870	172	841	327.5	445	915	12	33	36	2200	85
20	354000	45	100	35	80	300	295	135	2.5	137.5	56	980	840	870	172	841	327.5	445	915	12	33	36	2300	75
21	392000	45	100	35	80	310	305	152	2.5	154.5	62	1115	935	960	172	897.5	354	445	1025	24	39	32	2930	115
22	450000	45	100	35	80	330	325	152	2.5	154.5	62	1115	935	960	172	897.5	354	445	1025	24	39	32	3100	105
23	513000	55	110	40	100	350	345	164	2.5	166.5	68	1210	1025	1056	194	1003	380	520	1120	28	39	36	3800	155
24	592000	55	110	40	100	360	355	164	2.5	166.5	68	1210	1025	1056	194	1003	380	520	1120	28	39	36	4300	135
25	684000	55	110	40	100	380	375	180	2.5	182.5	74	1320	1115	1150	194	1065.5	407	520	1220	29	45	36	5250	195
26	763000	55	110	40	100	400	395	180	2.5	182.5	74	1320	1115	1150	194	1065.5	407	520	1220	29	45	36	5660	170
27	852000	70	135	50	110	430	425	191	2.5	193.5	81	1460	1215	1248	240	1205.5	453	615	1345	31	52	32	6680	250
28	950000	70	135	50	110	450	445	191	2.5	193.5	81	1460	1215	1248	240	1205.5	453	615	1345	31	52	32	7180	220
29	1060000	70	135	50	110	460	450	197.5	5	202.5	87	1565	1320	1355	240	1252.5	483	615	1450	34	52	36	8500	310
30	1200000	70	135	50	110	480	470	197.5	5	202.5	87	1565	1320	1355	240	1252.5	483	615	1450	34	52	36	9070	280
31-36	根据用户要求供货 On request																							

1) 当d≤50时公差为k6
当50<d≤100时公差为m6
当5d>100时公差为n6
2) 不含胀紧盘与润滑油的重量
3) 有关平键(符合GB/T1095−1979)与中心孔请参390页
4) 孔的分布类型见389页
5) 当尺寸≤160时公差为h6

1) When shaft diiameter d≤50,tolerance is k6
When shaft diiameter 50<d≤100,tolerance is m6
When shaft diiameter 5d>100,tolerance is n6
2) Weight without shrink disk and oil
3) For parallel key (GB/T1095−1979) and centre hole see page 390
4) For hole pattern, see page 389
5) ≤160 h6

类型 TYPES EQ3K.
规格 SIZES 9...30

额定功率P_N Nominal power ratings (kW)

i_N	n_1 r/min	n_2 r/min	9	10	11	12	13	14	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31 - 36
560	1500	2.68	6.3	9	12	17	24	33	46	58	70	84	101	112	128	146	169	195	218	243	271	303	342	根据用户要求供货 On request
	1000	1.79	4.2	6	8	11	16	22	30	38	46	56	67	75	86	98	113	130	145	162	181	202	228	
	750	1.34	3.1	4.4	6	9	12	17	23	29	35	42	51	56	64	73	84	98	109	122	136	151	171	
630	1500	2.38	5.6	7.8	11	15	21	30	41	51	62	75	90	99	114	130	150	174	194	216	241	269	304	
	1000	1.59	3.7	5.2	7	10	14	20	27	34	41	50	60	66	76	87	100	116	129	144	161	179	203	
	750	1.19	2.8	3.9	5	8	11	15	20	26	31	37	45	50	57	65	75	87	97	108	121	134	152	
710	1500	2.11	5.0	7	9	14	19	26	36	45	55	66	80	88	101	115	133	154	172	192	214	239	270	
	1000	1.41	3.3	4.5	6	9	12	18	24	30	37	44	53	59	68	77	89	103	115	128	143	159	180	
	750	1.06	2.5	3.5	5	7	9	13	18	23	27	33	40	44	51	58	67	77	86	96	107	119	135	
800	1500	1.88	4.4	6	8	12	17	23	32	40	49	59	71	78	90	102	118	137	152	170	190	212	240	
	1000	1.25	2.9	4	6	8	11	16	21	27	32	39	47	52	60	68	79	91	102	113	127	141	160	
	750	0.94	2.2	3	4	6	8	12	16	20	24	29	35	39	45	51	59	68	76	85	95	106	120	
900	1500	1.67	3.9	5.5	7.5	11	15	21	28	36	43	52	63	70	80	91	105	121	136	151	169	188	213	
	1000	1.11	2.6	3.7	5	7	10	14	19	24	29	35	42	46	53	61	70	81	90	101	112	125	142	
	750	0.83	2.0	2.7	3.7	5	7	10	14	18	22	26	31	35	40	46	53	61	68	76	84	94	107	
1000	1500	1.50	3.5	5	6.7	10	13	19	26	32	39	47	57	63	72	82	95	109	122	136	152	169	192	
	1000	1.00	2.3	3.3	4.5	6	9	12	17	22	26	31	38	42	48	55	63	73	81	91	101	113	128	
	750	0.75	1.8	2.5	3.4	5	7	9	13	16	19	24	28	31	36	41	47	55	61	68	76	85	96	
1120	1500	1.34	3.1	4.4	6	9	12	17	23	29	35	42	51	56	64	73	84	98	109	122	136	151	171	
	1000	0.89	2.1	2.9	4	6	8	11	15	19	23	28	34	37	43	49	56	65	73	81	90	101	114	
	750	0.67	1.6	2.2	3	4.5	6	8	11	14	17	21	25	28	32	37	42	49	54	61	68	76	86	
1250	1500	1.20	2.8	4.0	5.4	8	11	15	20	26	31	38	45	50	58	66	76	87	98	109	121	136	153	
	1000	0.80	1.9	2.6	3.6	5	7	10	14	17	21	25	30	33	38	44	50	58	65	73	81	90	102	
	750	0.60	1.4	2.0	2.7	4	5	7	10	13	16	19	23	25	29	33	38	44	49	54	61	68	77	
1400	1500	1.07	2.5	3.5	4.8	7	9	13	18	23	28	34	40	45	51	59	68	78	87	97	108	121	137	
	1000	0.71	1.7	2.4	3.2	5	6	9	12	15	19	22	27	30	34	39	45	52	58	65	72	81	91	
	750	0.54	1.3	1.8	2.4	3.5	4.5	7	9	12	14	17	20	22	26	29	34	39	44	49	54	61	68	
1600	1500	0.94	2.2	3.1	4.2	6	8	12	16	20	24	29	35	39	45	51	59	68	76	85	95	106	120	
	1000	0.63	1.5	2.1	2.8	4	6	8	11	13	16	20	24	26	30	34	39	46	51	57	63	71	80	
	750	0.47	1.1	1.5	2.1	3	4	6	8	10	12	15	18	20	22	26	30	34	38	43	47	53	60	
1800	1500	0.83	2.0	2.8	3.7	5	7	10	14	18	22	26	31	35	40	46	53	61	68	76	84	94	107	
	1000	0.56	1.3	1.8	2.5	4	5	7	9	12	14	17	21	23	27	30	35	40	45	50	56	63	71	
	750	0.42	1.0	1.4	1.9	2.7	3.7	5.2	7.1	9	11	13	16	17	20	23	26	30	34	38	42	47	53	
2000	1500	0.75	1.8	2.5	3.4	4.8	6.6	9.4	12.8	16	19	24	28	31	36	41	47	55	61	68	76	85	96	
	1000	0.50	1.2	1.7	2.2	3.2	4.4	6.2	8.5	11	13	16	19	21	24	27	32	36	41	45	51	56	64	
	750	0.38	0.9	1.2	1.7	2.4	3.3	4.7	6.4	8	10	12	14	16	18	20	24	27	30	34	38	42	48	
2240	1500	0.67	1.6	2.2	3.0	4.3	5.9	8.3	11.4	14	17	21	25	28	32	37	42	49	54	61	68	76	86	
	1000	0.45	1.0	1.5	2.0	2.9	3.9	5.6	7.6	10	12	14	17	19	21	24	28	33	36	41	45	50	57	
	750	0.33	0.8	1.1	1.5	2.1	3.0	4.2	5.7	7.2	8.7	10.5	12.6	14	16	18	21	24	27	30	34	38	43	
2500	1500	0.60	1.4	2.0	2.7	3.8	5.3	7.5	10.2	12.9	16	19	23	25	29	33	38	44	49	54	61	68	77	
	1000	0.40	0.9	1.3	1.8	2.6	3.5	5.0	6.8	8.6	10.4	12.6	15.1	17	19	22	25	29	33	36	20	45	51	
	750	0.30	0.7	1.0	1.3	1.9	2.7	3.7	5.1	6.5	7.8	9.4	11.3	13	14	16	19	22	24	27	30	34	38	
2800	1500	0.54	1.3	1.8	2.4	3.4	4.7	6.7	9.1	12	14	17	20	22	26	29	34	39	44	49	54	61	68	
	1000	0.36	0.8	1.2	1.6	2.3	3.2	4.5	6.1	7.7	9.3	11.2	13.5	15	17	20	23	26	29	32	36	40	46	
	750	0.27	0.6	0.9	1.2	1.7	2.4	3.3	4.6	5.8	7.0	8.4	10.1	11.2	13	15	17	20	22	24	27	30	34	
3150	1500	0.48	1.1	1.6	2.1	3.0	4.2	5.9	8.1	10.2	12	15	18	20	23	26	30	35	39	43	48	54	61	
	1000	0.32	0.7	1.0	1.4	2.0	2.8	4.0	5.4	6.8	8.3	10	12	13.3	15	17	20	23	26	29	32	36	41	
	750	0.24	0.6	0.8	1.1	1.5	2.1	3.0	4.1	5.1	6.2	7.5	9	9.9	11	13	15	17	19	22	24	27	30	
3550	1500	0.42	1.0	1.4	1.9	2.7	3.7	5.3	7.2	9.1	11	13	16	18	20	23	27	31	34	38	43	48	54	
	1000	0.28	0.7	0.9	1.3	1.8	2.5	3.5	4.8	6.1	7.3	8.9	10.6	11.8	14	15	18	21	23	26	29	32	36	
	750	0.21	0.5	0.7	0.9	1.4	1.9	2.6	3.6	4.5	5.5	6.6	8	8.8	10	12	13	15	17	19	21	24	27	
4000	1500	0.38	0.9	1.2	1.7	2.4	3.3	4.7	6.4	8.1	9.7	12	14	16	18	20	24	27	30	34	38	42	48	
	1000	0.25	0.6	0.8	1.1	1.6	4.2	3.1	4.3	5.4	6.5	7.9	9.4	10.4	12	14	16	18	20	23	25	28	32	
	750	0.19	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.0	4.9	5.9	7.1	7.8	9	10	12	14	15	17	19	21	24	

热功率PG1★) Thermal capacities PG1★) (kW)

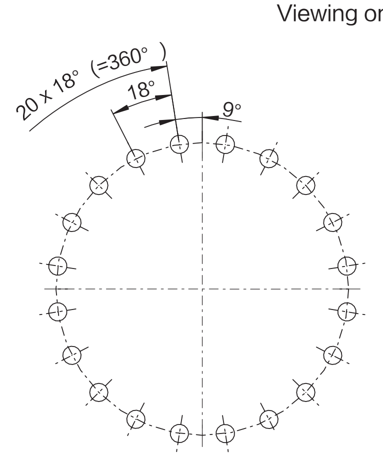
安装类型 Settings	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31/32	33/34	35/36
狭小空间1) Small confined spaces	10	12	15	20	23	31	35	43	47	56	67	82	95	109	125	根据用户要求供货 On request		
室内大厅2) 大车间 Large halls workshops	14	17	21	28	33	44	50	61	66	79	95	116	106	125	144			
室外3) In the open	19	24	28	38	44	59	67	83	90	107	128	157	166	195	225			

★）用于水平安装形式，其它安装形式请与我们联系。
1) 风速≥0.5 m/s
2) 风速≥1.4 m/s
3) 风速≥3.7 m/s

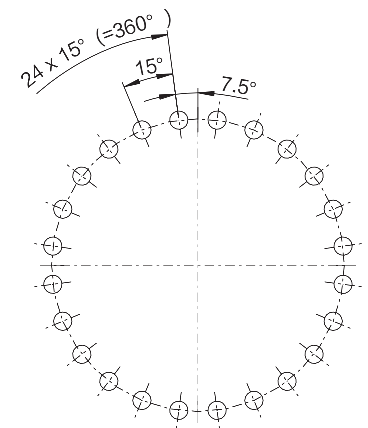
★) Values apply to horizontal mounting position, for other mounting positions please refer to us.
1) Wind velocity≥0.5 m/s
2) Wind velocity≥1.4 m/s
3) Wind velocity≥3.7 m/s

输出法兰孔布置形式
Hole Patterns on Output Flange

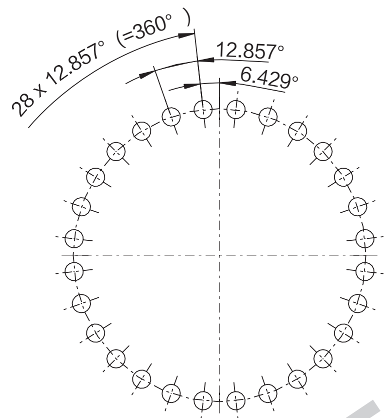
从输入端看
Viewing on input shaft



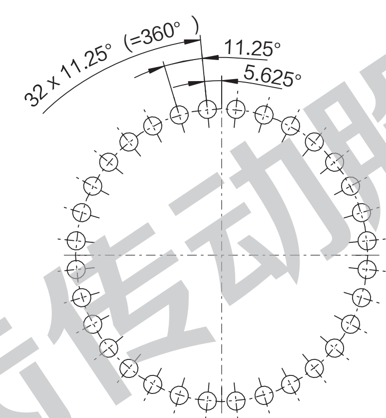
规格 Size: 11、12



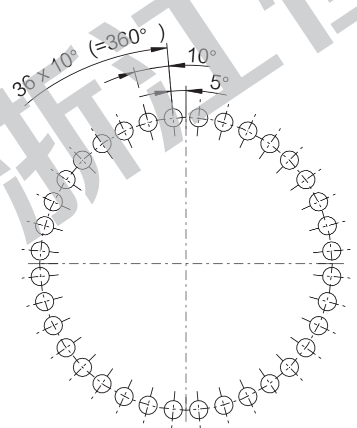
规格 Size: 9、13、17



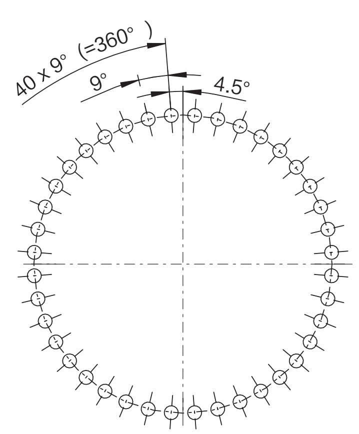
规格 Size: 10



规格 Size: 14、18、21、22、27、28、31、32



规格 Size: 16、19、20、23、24、25、26、29、30、33、34



规格 Size: 35、36

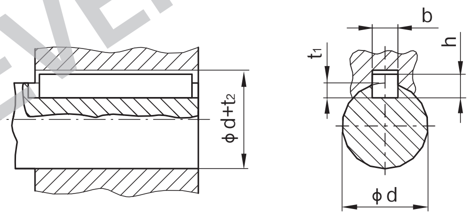
轴端螺纹孔、平键和键槽
Centre Holes in Shaft Ends, Parallel Key and Keyway

轴端螺纹孔 Centre holes in shaft end mm

轴径 φd Diameter	≥16-21	>21-24	>24-30	>30-38	>38-50	>50-85	>85-130	>130-225	>225-320	>320-500	>500-710
螺孔尺寸 Screw	M6	M8	M10	M12	M16	M20	M24	M30	M36	M42	M48

平键和键槽 Paralle key and keyway mm

平键紧固采用无锥度联接
平键和键槽根据GB/T1095-1979标准确定
Drive type fastening without taper action.
Paralle key and keyway acc. to GB/T1095-1979

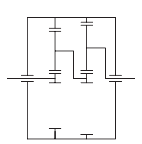


直径 Diameter d	宽度 Width b	高度 Height h	轴键槽深度 Depth of keyway in shaft t_1	轮毂键槽深度 Depth of keyway in hub $d+t_2$
>8-10	3	3	1.8	d+1.4
>10-12	4	4	2.5	d+1.8
>12-17	5	5	3	d+2.3
>17-22	6	6	3.5	d+2.8
>22-30	8	7	4	d+3.3
>30-38	10	8	5	d+3.3
>38-44	12	8	5	d+3.3
>44-50	14	9	5.5	d+3.8
>50-58	16	10	6	d+4.3
>58-65	18	11	7	d+4.4
>65-75	20	12	7.5	d+4.9
>75-85	22	14	9	d+5.4
>85-95	25	14	9	d+5.4
>95-110	28	16	10	d+6.4
>110-130	32	18	11	d+7.4
>130-150	36	20	12	d+8.4
>150-170	40	22	13	d+9.4
>170-200	45	25	15	d+10.4
>200-230	50	28	17	d+11.4
>230-260	56	32	20	d+12.4
>260-290	63	32	20	d+12.4
>290-330	70	36	22	d+14.4
>330-380	80	40	25	d+15.4
>380-440	90	45	28	d+17.4
>440-500	100	50	31	d+19.5

EQ系列行星减速器实际传动比
EQ Series Planetary gear units actual ratios

Actual Ratios for Types EQ2N.and EQ2S.

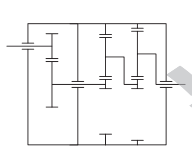
EQ2N.



i_N= 25...40

规格 Size	实际传动比 Actual Ratios				
	25	28	31.5	35.5	40
9	25.634	28.058	31.142	35.201	40.781
10	25.634	28.058	31.142	35.201	40.781
11	25.875	28.233	31.207	35.072	40.301
12	24.983	27.260	30.130	33.863	38.912
13	24.958	27.318	30.321	34.272	39.706
14	24.958	27.318	30.321	34.272	39.706
16	24.750	27.090	30.068	33.987	39.375
17	24.750	27.090	30.068	33.987	39.375
18	24.958	27.318	30.321	34.272	39.706
19/20	26.622	29.139	32.342	36.557	42.353
21/22	26.622	29.139	32.342	36.557	42.353
23/24	26.872	29.321	32.409	36.424	41.855
25/26	26.872	29.321	32.409	36.424	41.855
27/28	26.622	29.139	32.342	36.557	42.353
29/30	26.622	29.139	32.342	36.557	42.353
31/32	26.872	29.321	32.409	36.424	41.855
33/34	26.622	29.139	32.342	36.557	42.353
35/36	26.872	29.321	32.409	36.424	41.855

EQ2S.



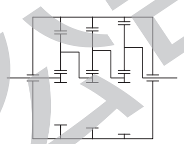
i_N= 45...125

规格 Size	实际传动比 Actual Ratios									
	45	50	56	63	71	80	90	100	112	125
9	45.601	51.544	59.715	61.953	71.775	78.782	91.272	99.735	115.55	124.74
10	45.601	51.544	59.715	61.953	71.775	78.782	91.272	99.735	115.55	124.74
11	43.209	48.561	55.802	63.399	72.853	81.303	93.426	99.678	114.54	123.14
12	41.719	46.887	53.878	61.213	70.340	78.499	90.205	96.241	110.59	118.90
13	43.797	49.505	57.353	59.977	69.485	78.827	91.324	95.963	111.18	119.12
14	43.797	49.505	57.353	59.977	69.485	78.827	91.324	95.963	111.18	119.12
16	42.318	47.833	55.417	61.438	71.178	78.788	91.278	96.594	111.91	120.59
17	42.318	47.833	55.417	61.438	71.178	78.788	91.278	96.594	111.91	120.59
18	42.867	48.454	56.136	60.320	69.882	78.976	91.496	95.963	111.18	119.12
19/20	45.725	51.684	59.878	64.341	74.541	84.241	97.596	102.36	118.59	127.06
21/22	46.357	52.399	60.706	66.084	76.561	84.746	98.182	103.90	120.37	129.41
23/24	45.373	50.993	58.597	64.442	74.051	82.781	95.124	101.60	116.75	125.56
25/26	45.373	50.993	58.597	64.442	74.051	82.781	95.124	101.60	116.75	125.56
27/28	46.948	53.067	61.480	66.345	76.863	84.241	97.596	102.36	118.59	127.06
29/30	46.948	53.067	61.480	66.345	76.863	84.241	97.596	102.36	118.59	127.06
31/32	45.575	51.221	58.858	66.102	75.958	83.932	96.448	104.30	119.86	127.56
33/34	45.481	51.409	59.559	66.345	76.863	84.241	97.596	104.69	121.28	129.08
35/36	45.373	50.993	58.597	65.562	75.338	81.252	93.368	100.53	115.52	129.20

EQ系列行星减速器实际传动比
EQ Series Planetary gear units actual ratios

Actual Ratios for Types EQ3N. and EQ3S.

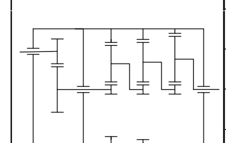
EQ3N.



i_N= 140...280

规格 Size	实际传动比 Actual Ratios						
	140	160	180	200	225	250	280
9	146.81	165.95	192.25	210.43	233.57	264.01	305.86
10	146.81	165.95	192.25	210.43	233.57	264.01	305.86
11	147.12	165.34	189.99	207.96	230.82	260.90	302.26
12	142.04	159.64	183.44	200.79	222.86	251.90	291.84
13	142.94	161.57	187.19	204.88	227.41	257.04	297.79
14	142.94	161.57	187.19	204.88	227.41	257.04	297.79
16	143.08	161.73	187.37	204.45	225.98	253.97	291.84
17	143.08	161.73	187.37	204.45	225.98	253.97	291.84
18	142.94	161.57	187.19	204.88	227.41	257.04	297.79
19/20	152.47	172.34	199.66	218.54	242.57	274.18	317.65
21/22	152.47	172.34	199.66	218.54	242.57	274.18	317.65
23/24	152.79	171.71	197.32	215.97	239.71	270.95	313.91
25/26	152.79	171.71	197.32	215.97	239.71	270.95	313.91
27/28	152.47	172.34	199.66	218.54	242.57	274.18	317.65
29/30	152.47	172.34	199.66	218.54	242.57	274.18	317.65
31/32	152.79	171.71	197.32	215.97	239.71	270.95	313.91
33/34	153.90	173.96	201.54	219.91	243.07	273.18	313.91
35/36	154.22	173.33	199.17	217.32	240.21	269.96	310.22

EQ3S.



i_N = 280...900

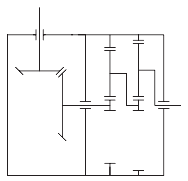
规格 Size	实际传动比 Actual Ratios										
	280	315	355	400	450	500	560	630	710	800	900
9	295.21	333.68	386.58	401.07	464.65	510.01	590.87	645.65	748.01	807.54	935.57
10	295.21	333.68	386.58	401.07	464.65	510.01	590.87	645.65	748.01	807.54	935.57
11	295.82	332.46	382.03	399.60	459.18	508.15	583.92	643.29	739.21	798.04	924.56
12	285.62	320.99	368.86	385.82	443.35	490.62	563.78	621.11	713.72	770.53	892.68
13	287.42	324.88	376.39	390.49	452.40	496.56	575.29	628.63	728.29	786.25	910.90
14	287.42	324.88	376.39	390.49	452.40	496.56	575.29	628.63	728.29	786.25	910.90
16	268.53	303.53	351.65	396.27	459.10	508.18	588.75	623.03	721.81	776.02	891.73
17	268.53	303.53	351.65	396.27	459.10	508.18	588.75	623.03	721.81	776.02	891.73
18	283.53	320.48	371.29	388.27	449.83	510.30	591.20	621.23	719.72	771.13	893.38
19/20	302.43	341.84	396.04	414.16	479.82	544.32	630.61	662.65	767.70	822.54	952.94
21/22	302.43	341.84	396.04	414.16	479.82	544.32	630.61	662.65	767.70	822.54	952.94
23/24	295.28	331.86	381.34	426.24	489.80	546.62	628.12	670.15	770.08	829.80	961.35
25/26	295.28	331.86	381.34	426.24	489.80	546.62	628.12	670.15	770.08	829.80	961.35
27/28	296.01	334.59	387.63	416.52	482.56	545.35	631.81	662.65	767.70	822.54	952.94
29/30	296.01	334.59	387.63	416.52	482.56	545.35	631.81	662.65	767.70	822.54	952.94
31/32	300.72	337.97	388.37	426.24	489.80	546.61	628.12	670.15	770.08	827.92	959.17
33/34	292.05	330.11	382.45	417.18	483.31	535.90	620.86	657.74	762.02	819.53	941.73
35/36	292.66	328.90	377.95	415.65	477.63	533.94	613.55	655.34	753.05	809.89	930.65

EQ系列行星减速器实际传动比
EQ Series Planetary gear units actual ratios

Actual Ratios for Types

EQ2L., EQ2K. and EQ3K.

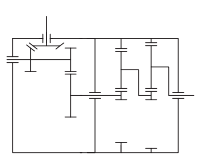
EQ2L.



i_N= 31.5...100

规格 Size	31.5	35.5	40	45	50	56	63	71	80	90	100
9	32.5354	35.6114	39.5264	43.8820	50.4205	55.7279	60.4522	69.6116	79.0529	86.2395	98.2172
10	32.5354	35.6114	39.5264	43.8820	50.4205	55.7279	60.4522	69.6116	79.0529	86.2395	98.2172
11	32.8413	35.8344	39.6083	43.4178	50.5248	55.8432	60.5774	69.7558	79.9667	86.4181	98.4206
12	31.7089	34.5987	38.2425	41.9206	48.7826	53.9176	58.4885	67.3504	77.2092	83.4381	95.0268
13	31.6775	34.6724	38.4842	42.1855	49.0910	54.2584	62.3262	67.7760	77.6972	83.9655	95.6273
14	31.6775	34.6724	38.4842	42.1855	49.0910	54.2584	62.3262	67.7760	77.6972	83.9655	95.6273
16	31.4135	34.3835	38.1635	41.8340	48.6818	53.8062	61.8068	67.2113	77.0497	83.2657	94.8304
17	31.4135	34.3835	38.1635	41.8340	48.6818	53.8062	61.8068	67.2113	77.0497	83.2657	94.8304
18	31.4286	34.4000	38.1818	43.1490	49.0910	54.8663	62.3262	67.7760	77.6972	83.9655	95.6273
19/20	33.5238	36.6933	40.7273	46.0255	52.3636	58.5241	66.4813	72.2944	82.8770	89.5631	102.0025
21/22	33.5238	36.3933	40.7273	46.0255	52.3636	58.5241	66.4813	72.2944	82.8770	89.5631	102.0025
23/24	33.8391	36.9231	40.8116	46.1208	52.4720	58.6452	66.6189	72.4441	83.0486	89.7486	102.2137
25/26	33.8391	36.9231	40.8116	46.1208	52.1366	58.6452	66.6189	72.4441	83.0486	89.7486	102.2137
27/28	33.5238	36.6933	40.7273	46.0255	52.0288	58.5241	66.4813	72.2944	82.8770	89.5631	102.0025
29/30	33.5238	36.6933	40.7273	46.0255	52.0288	58.5241	66.4813	72.2944	82.8770	89.5631	102.0025

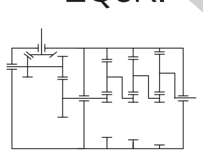
EQ2K.



i_N = 112...500

规格 Size	112	125	140	160	180	200	225	250	280	320	360	400	450	500
9	111.25	125.75	145.69	157.28	175.77	203.53	223.22	242.15	278.84	316.65	345.44	393.42	442.27	487.63
10	111.25	125.75	145.69	157.28	175.77	203.53	223.22	242.15	278.84	316.65	345.44	393.42	442.27	487.63
11	111.83	125.68	144.42	155.27	173.52	200.92	220.36	239.04	275.26	312.60	341.01	388.38	436.60	481.38
12	107.97	121.35	139.44	149.91	167.54	193.99	212.76	230.80	265.77	301.82	329.25	374.98	421.54	464.78
13	107.76	121.80	141.11	151.19	167.85	192.86	213.16	231.23	266.26	302.38	329.86	375.68	422.33	465.64
14	107.76	121.80	141.11	151.19	167.85	192.86	213.16	231.23	266.26	302.38	329.86	375.68	422.33	465.64
16	108.47	122.60	142.04	153.05	167.77	195.23	215.79	234.08	269.55	309.00	333.93	380.31	427.53	471.38
17	108.47	122.60	142.04	153.05	167.77	195.23	215.79	234.08	269.55	309.00	333.93	380.31	427.53	471.38
18	107.76	121.80	141.11	151.19	165.73	192.86	213.16	244.85	266.26	305.24	329.86	375.68	422.33	465.64
19/20	114.94	129.92	150.52	161.27	176.78	205.71	227.37	261.18	284.01	325.59	351.86	400.72	450.48	496.68

EQ3K.



i_N= 560...4000

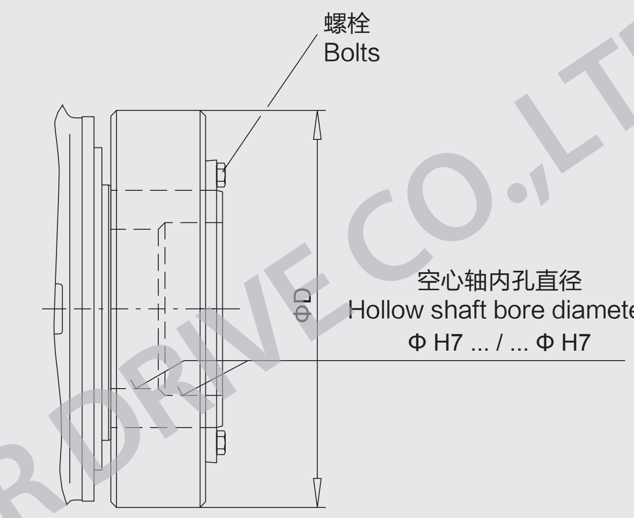
规格 Size	560	630	710	800	900	1000	1120	1250	1400	1600	1800	2000	2240	2500	2800	3150	3550	4000
9	566.22	640.02	700.53	777.54	878.88	982.19	1137.3	1247.3	1353.1	1558.1	1769.4	1930.3	2198.4	2471.3	2724.8	3105.0	3597.2	4167.5
10	566.22	640.02	700.53	777.54	878.88	982.19	1137.3	1247.3	1353.1	1558.1	1769.4	1930.3	2198.4	2471.3	2724.8	3104.9	3597.2	4167.5
11	567.40	637.68	697.96	774,70	875.66	978.60	1133.1	1242.8	1348.1	1552.4	1762.9	1923.2	2190.3	2462.3	2714.8	3093.6	3584.1	4118.5
12	547.83	615.69	673.90	747.98	845.46	944.85	1094.0	1199.9	1301.6	1498.9	1702.1	1856.9	2114.8	2377.4	2621.2	2986.9	3460.5	3976.5
13	551.29	623.14	682.06	757.04	855.70	956.30	1107.3	1214.4	1317.4	1517.0	1722.8	1879.4	2140.4	2406.1	2652.9	3023.1	3502.4	4057.6
14	551.29	623.14	682.06	757.04	855.70	956.30	1107.3	1214.4	1317.4	1517.0	1722.8	1879.4	2140.4	2406.1	2652.9	3023.1	3502.4	4057.6
16	551.25	623.09	679.88	751.48	844.56	943.84	1092.9	1198.6	1300.2	1497.3	1700.3	1854.9	2112.5	2374.8	2618.4	2983.8	3428.7	3972.2
17	551.25	623.09	679.88	751.48	844.56	943.84	1092.9	1198.6	1300.2	1497.3	1700.3	1854.9	2112.5	2374.8	2618.4	2983.8	3428.7	3972.2
18	544.28	615.21	673.37	747.40	844.81	937.90	1077.6	1191.1	1292.1	1487.8	1689.6	1843.2	2099.2	2359.9	2601.9	2965.0	3435.0	3979.6
19/20	580.56	656.22	718.27	797.23	901.13	1000.4	1149.5	1270.5	1378.2	1587.0	1802.3	1966.1	2239.2	2517.2	2775.4	3162.6	3664.0	4244.9
21/22	580.56	656.22	718.27	797.23	901.13	1000.4	1149.5	1270.5	1378.2	1587.0	1802.3	1966.1	2239.2	2517.2	2775.4	3162.6	3664.0	4244.9
23/24	593.88	667.44	730.55	810.87	916.54	1004.7	1169.1	1292.2	1401.8	1614.2	1850.4	1999.7	2277.5	2560.2	2822.8	3216.7	3726.7	4282.4
25/26	593.88	667.44	730.55	810.87	916.54	1004.7	1169.1	1292.2	1401.8	1614.2	1850.4	1999.7	2277.5	2560.2	2822.8	3216.7	3726.7	4282.4
27/28	580.56	656.22	718.27	797.23	901.13	987.8	1149.5	1270.5	1459.4	1587.0	1819.3	1966.1	2239.2	2517.2	2775.4	3162.6	3664.0	4244.9
29/30	580.56	656.22	718.27	797.23	901.13	987.8	1149.5	1270.5	1459.4	1587.0	1819.3	1966.1	2239.2	2517.2	2775.4	3162.6	3664.0	4244.9

EQ系列行星减速器输出端尺寸
EQ Series Planetary gear units output terminal size

类型 TYPES EQ..D

规格 SIZES 9...36

EQ..D

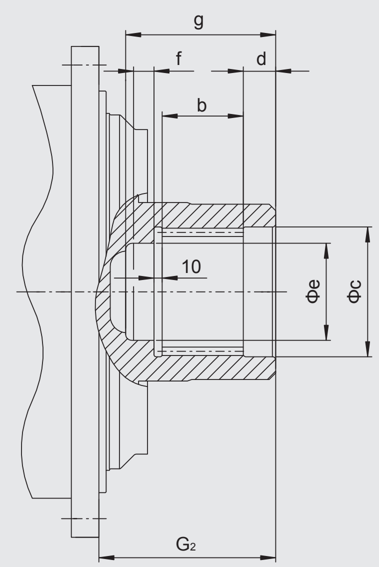


机座号 Size	输出扭矩 Output T_{2N} (N.m)	胀紧盘 Shrink disk 内径 Size	D	螺栓 Bolts 型号 Size	拧紧力矩 (N.m) Tightening torque	重量 Weight (kg)
9	22000	155	263	M14	100	15.2
10	31000	165	290	M16	240	21.5
11	42000	175	320	M16		32.7
12	60000	210	370	M20		53
13	83000	230	405	M20	470	66
14	117000	270	460	M20		103
16	160000	290	485	M24		120
17	202000	310	520	M24	470	138
18	244000	330	570	M24		189
19	295000	350	590	M24		207
20	354000	380	640	M27		244
21	392000	390	650	M27		249
22	450000	420	670	M27		285
23	513000	440	720	M27	820	357
24	592000	460	770	M27		419
25	684000	480	800	M30		492
26	763000	500	850	M30		567
27	852000	530	910	M30		744
28	950000	560	940	M30	1210	776
29	1060000	560	940	M30		736
30	1200000	590	960	M30		845
31	1330000	590	960	M30		835
32	1500000	620	1020	M30		1064
33	1680000	660	1070	M33		1178
34	1920000	700	1140	M33	1640	1345
35	2240000	750	1150	M33		1346
36	2600000	800	1230	M33		1646

EQ系列行星减速器输出端尺寸
EQ Series Planetary gear units output terminal size

类型 TYPES EQ..KH.
规格 SIZES 9...30

EQ..KH.



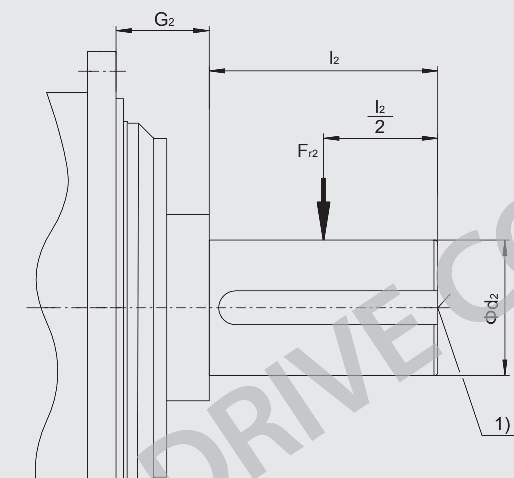
机座号 Size	输出扭矩 Output T_{2N} (N.m)	渐开线花键空心轴出轴 Hollow output shaft with involute splines							
		内花键规格 Involute splines acc.to DIN 5480	b	c H7	d	e H7	f	G_2	g
9	22000	120 x 5 x 30 x 22 x 9H	70	122	40	107	20	165	150
10	31000	130 x 5 x 30 x 24 x 9H	80	132	40	117	20	174	160
11	42000	140 x 5 x 30 x 26 x 9H	90	142	45	125	25	204	180
12	60000	160 x 5 x 30 x 30 x 9H	100	162	45	145	25	223	190
13	83000	180 x 5 x 30 x 34 x 9H	110	182	45	165	25	237	200
14	117000	210 x 5 x 30 x 40 x 9H	125	212	45	195	25	264	215
16	160000	240 x 8 x 30 x 28 x 9H	140	242	50	220	25	285	235
17	202000	250 x 8 x 30 x 30 x 9H	150	252	50	230	30	290	250
18	244000	260 x 8 x 30 x 31 x 9H	160	262	50	240	30	303	260
19	295000	280 x 8 x 30 x 34 x 9H	170	282	50	260	30	327.5	270
20	354000	300 x 8 x 30 x 36 x 9H	180	302	50	280	30	327.5	280
21	392000	310 x 8 x 30 x 37 x 9H	190	312	60	290	40	354	310
22	450000	330 x 8 x 30 x 40 x 9H	200	332	60	310	40	354	320
23	513000	340 x 8 x 30 x 41 x 9H	200	342	60	320	40	348	320
24	592000	360 x 8 x 30 x 44 x 9H	220	362	60	340	40	368	340
25	684000	380 x 8 x 30 x 46 x 9H	230	382	60	360	40	372	350
26	763000	400 x 8 x 30 x 48 x 9H	240	402	60	380	40	382	360
27	852000	440 x 8 x 30 x 54 x 9H	250	442	60	420	40	423	370
28	950000	450 x 8 x 30 x 55 x 9H	260	452	65	430	40	428	385
29	1060000	460 x 8 x 30 x 56 x 9H	270	462	65	440	45	433	400
30	1200000	480 x 8 x 30 x 58 x 9H	285	482	65	460	45	448	415

机座号 Size	输出扭矩 Output T_{2N} (N.m)	渐开线花键空心轴出轴 Hollow output shaft with involute splines							
		内花键规格 Involute splines acc.to GB/T3478.1	b	c H7	d	e H7	f	G_2	g
9	22000	22z x 5m x 30p x 6H	70	122	40	105	20	165	150
10	31000	24z x 5m x 30p x 6H	80	132	40	115	20	174	160
11	42000	26z x 5m x 30p x 6H	90	142	45	125	25	204	180
12	60000	30z x 5m x 30p x 6H	100	162	45	145	25	223	190
13	83000	34z x 5m x 30p x 6H	110	182	45	165	25	237	200
14	117000	40z x 5m x 30p x 6H	125	212	45	195	25	264	215
16	160000	28z x 8m x 30p x 6H	140	242	50	215	25	285	235
17	202000	30z x 8m x 30p x 6H	150	255	50	230	30	290	250
18	244000	31z x 8m x 30p x 6H	160	262	50	240	30	303	260
19	295000	33z x 8m x 30p x 6H	170	282	50	255	30	327.5	270
20	354000	36z x 8m x 30p x 6H	180	302	50	280	30	327.5	280
21	392000	37z x 8m x 30p x 6H	190	312	60	285	40	354	310
22	450000	40z x 8m x 30p x 6H	200	335	60	310	40	354	320
23	513000	41z x 8m x 30p x 6H	200	342	60	320	40	348	320
24	592000	43z x 8m x 30p x 6H	220	362	60	335	40	368	340
25	684000	46z x 8m x 30p x 6H	230	382	60	360	40	372	350
26	763000	48z x 8m x 30p x 6H	240	402	60	375	40	382	360
27–30	根据用户要求供货 Provided according to customer's requirements.								

EQ系列行星减速器输出端尺寸
EQ Series Planetary gear units output terminal size

类型 TYPES EQ..S.
规格 SIZES 9...36

EQ..S.

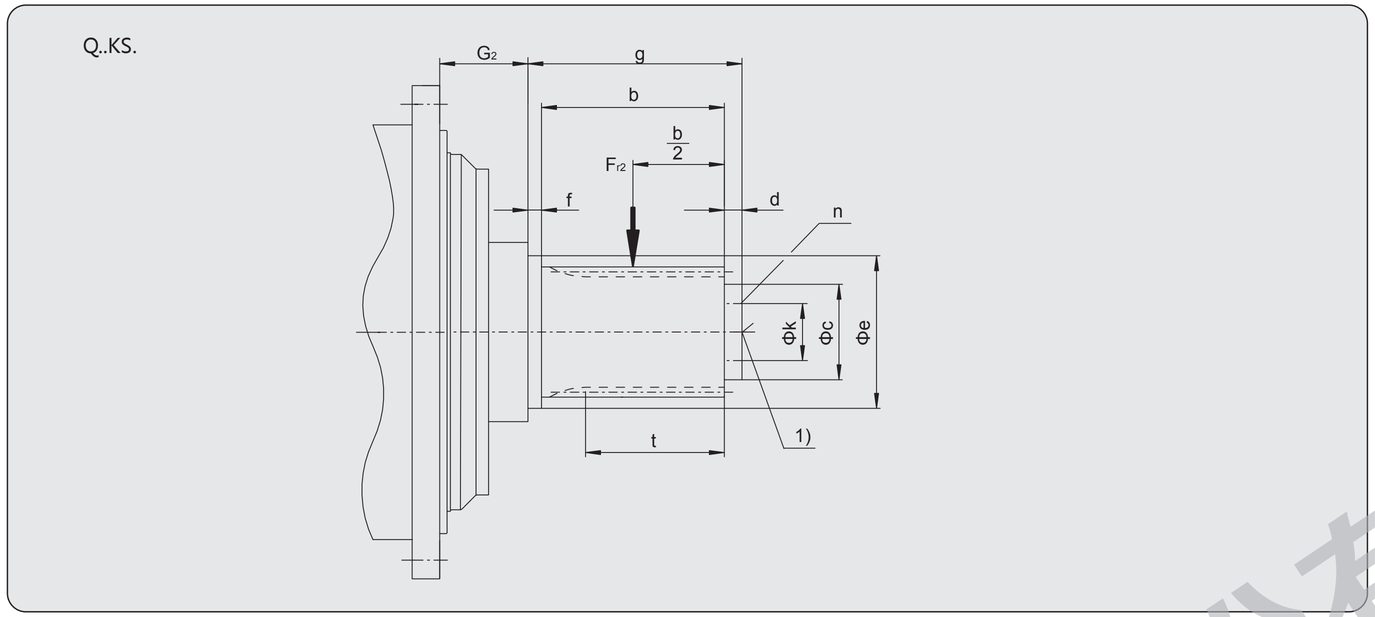


机座号 Size	输出扭矩 Output T_{2N} (N.m)	实心轴 Solid shaft			
		d_2 n_6	l_2	G_2	F_{r2}
9	22000	120	210	95	见367页 See page 367
10	31000	130	210	95	
11	42000	150	240	109	
12	60000	160	270	112	
13	83000	180	310	118	
14	117000	210	350	139	
16	160000	230	350	142	
17	202000	250	400	139	
18	244000	260	400	142	
19	295000	280	450	148.5	
20	354000	300	500	148.5	
21	392000	310	500	158	
22	450000	330	500	158	
23	513000	350	550	175	
24	592000	360	590	175	
25	684000	380	590	182	
26	763000	400	650	182	
27	852000	430	690	196.5	
28	950000	450	750	196.5	
29	1060000	460	750	209	
30	1200000	480	790	209	
31	1330000	500	790	232	
32	1500000	510	850	232	
33	1690000	530	900	251	
34	1920000	570	950	251	
35	2240000	600	1000	267	
36	2600000	640	1000	267	

1)有关平键（符合GB/T1095-1979）与中心孔参照390页
1)For parallel （GB/T1095-1979) and centre hole see page 390

EQ系列行星减速器输出端尺寸
EQ Series Planetary gear units output terminal size

类型 TYPES EQ..KS.
规格 SIZES 9...30

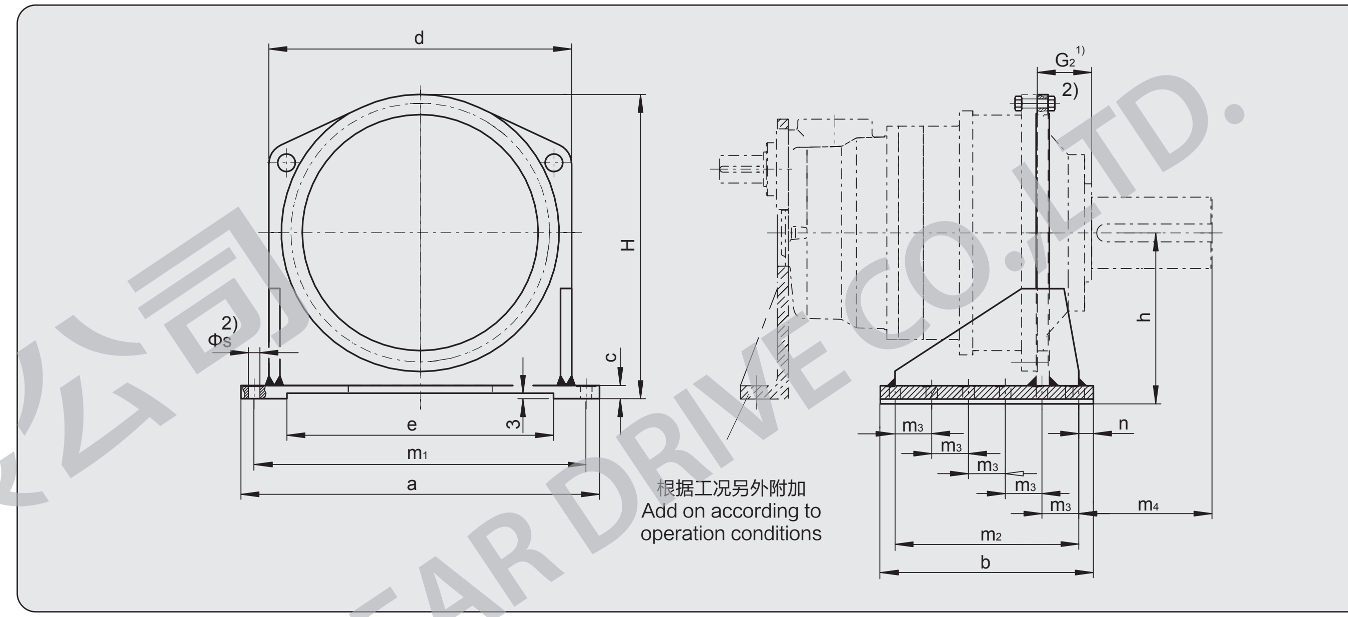


机座号 Size	输出扭矩 Output torque T_{2N} (N.m)	渐开线花键实心轴出轴 Hollow output shaft with involute splines — 外花键规格 Involute splines acc.to DIN 5480	外花键规格 Involute splines acc.to GB/T3478.1	t	b	c k6	d	e k6	f	g	k	n	G_2	F_{r2}
9	22000	130x5x30x24x8m	25z x 5m x 30p x 5h	70	80	110	20	132	20	120	80	3xM16x24	95	见367页 See page 367
10	31000	140x5x30x26x8m	27z x 5m x 30p x 5h	80	90	120	20	142	20	130	90	3xM16x24	95	
11	42000	160x5x30x30x8m	31z x 5m x 30p x 5h	90	100	140	25	162	25	150	110	3xM16x24	109	
12	60000	180x5x30x34x8m	35z x 5m x 30p x 5h	100	110	90	25	182	25	160	130	3xM16x24	112	
13	83000	200x5x30x38x8m	39z x 5m x 30p x 5h	110	120	100	30	202	25	175	140	3xM16x24	118	
14	117000	220x5x30x42x8m	43z x 5m x 30p x 5h	125	135	120	30	222	30	195	160	3xM16x24	139	
16	160000	250x8x30x30x8m	30z x 8m x 30p x 5h	140	155	140	35	252	30	220	185	3xM20x30	142	
17	202000	260x8x30x31x8m	31z x 8m x 30p x 5h	150	165	155	40	262	35	240	200	3xM20x30	139	
18	244000	280x8x30x34x8m	34z x 8m x 30p x 5h	160	175	170	40	282	35	250	215	3xM20x30	142	
19	295000	300x8x30x36x8m	36z x 8m x 30p x 5h	170	185	180	40	302	35	260	225	3xM20x30	148.5	
20	354000	310x8x30x37x8m	37z x 8m x 30p x 5h	180	195	190	40	312	35	270	235	6xM20x30	148.5	
21	392000	320x8x30x38x8m	39z x 8m x 30p x 5h	190	205	200	40	322	35	280	250	6xM20x30	158	
22	450000	340x8x30x41x8m	41z x 8m x 30p x 5h	200	215	210	40	342	35	290	265	6xM20x30	158	
23	513000	360x8x30x44x8m	44z x 8m x 30p x 5h	200	215	230	40	362	35	290	275	6xM20x30	175	
24	592000	380x8x30x46x8m	46z x 8m x 30p x 5h	220	235	245	40	382	35	310	290	6xM20x30	175	
25	684000	400x8x30x48x8m	49z x 8m x 30p x 5h	230	245	260	40	402	35	320	310	6xM24x36	182	
26	763000	420x8x30x51x8m	51z x 8m x 30p x 5h	240	255	280	40	422	35	330	330	6xM24x36	182	
27−30	根据用户要求供货 On reuqest													

1)有关中心孔请参照390页
1)For centre hole see page 390

EQ系列行星减速器附件
EQ Series Planetary gear units Add-on Piece

1.齿轮箱底座 Gear Housing Base
96



机座号 Size	尺寸 Dimensions a	b	c	d	e	h	H	m_1	m_2	m_3	m_4	n	螺栓孔 Foundation bolt s	数量 QTY	重量 Weight (kg)
9	580	330	20	450	380	260	480	520	260	130	240	35	26	2x3	56
10	630	360	25	500	430	280	525	570	290	145	240	35	26	2x3	82
11	680	400	30	550	480	315	585	620	330	110	274	35	26	2x4	122
12	760	450	30	630	560	360	670	700	380	95	292	35	26	2x5	157
13	820	490	35	680	610	390	720	750	420	105	334	35	26	2x5	213
14	920	560	35	760	680	430	800	840	480	120	380	40	33	2x5	270
16	980	580	40	820	700	470	865	900	500	125	374	40	33	2x5	350
17	1130	670	45	940	810	540	998	1040	580	145	405	45	39	2x5	520
18	1180	720	45	980	830	560	1035	1080	620	155	393	50	39	2x5	580
19	1260	760	50	1050	880	590	1090	1160	640	160	450	60	45	2x5	720
20	1260	760	50	1050	880	590	1090	1160	640	160	500	60	45	2x5	720
21	1440	840	55	1170	1020	660	1228	1320	700	175	513	70	52	2x5	940
22	1440	840	55	1170	1020	660	1228	1320	700	175	513	70	52	2x5	940
23	1540	910	60	1270	1100	730	1345	1420	750	150	567	80	52	2x6	1275
24	1540	910	60	1270	1100	730	1345	1420	750	150	607	80	52	2x6	1275
25	1700	1000	65	1400	1240	795	1465	1550	860	215	574	70	62	2x5	1670
26	1700	1000	65	1400	1240	795	1465	1550	860	215	634	70	62	2x5	1670
27	1850	1100	70	1550	1370	870	1610	1700	950	190	664	75	62	2x6	2170
28	1850	1100	70	1550	1370	870	1610	1700	950	190	724	75	62	2x6	2170
29	1980	1180	75	1640	1460	925	1715	1820	1000	250	731	90	70	2x5	2650
30	1980	1180	75	1640	1460	925	1715	1820	1000	250	771	90	70	2x5	2650
31	2150	1300	75	1750	1570	1000	1845	1950	1100	220	773	100	70	2x6	3100
32	2150	1300	75	1750	1570	1000	1845	1950	1100	220	833	100	70	2x6	3100
33	2230	1350	85	1850	1630	1050	1940	2050	1150	230	883	100	78	2x6	3850
34	2230	1350	85	1850	1630	1050	1940	2050	1150	230	933	100	78	2x6	3850
35 + 36	根据用户要求供货 On reuqest														

1) 输出轴的尺寸，见396页　　1) For output shaft dimentions, see page 396
2) 见404页　　2) See page 404

EQ系列行星减速器附件
EQ Series Planetary gear units Add-on Piece

2.单侧扭矩支撑臂 Torque Reaction Arm on One Side

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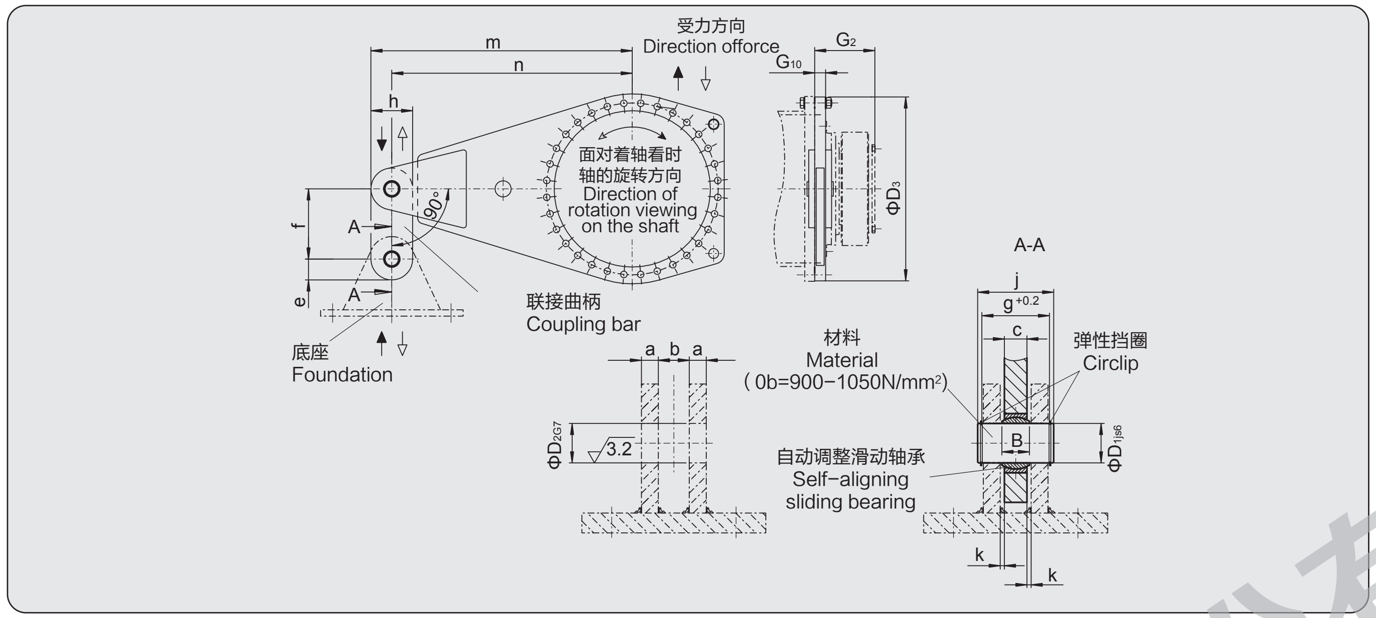


机座号 Size	输出扭矩 Output T_{2N} (N.m)	D_1 js6 / D_2 G7	D_3	G_2	G_{10}	a min	b	B 1)	c	e	f	g +0.2	h	j	间隙 Clearance k	m	n	滑动轴承内径 Sliding bearing	重量 Weight (kg)
9	22000	30	440	165	25	15	25	22	18	50	140	59.5	100	70	3.5	605	555	30	38
10	31000	35	485	174	30	15	30	25	20	52.5	140	64.5	105	75	5	667.5	615	35	51
11	42000	40	540	204	30	18	30	28	22	65	160	70.5	130	85	4	750	685	40	82
12	60000	40	620	224	30	18	30	28	22	65	160	70.5	130	85	4	850	785	40	85
13	83000	45	665	241	35	20	35	32	25	72.5	180	79.5	145	95	5	912.5	840	45	113
14	117000	50	740	278	40	20	40	35	30	72.5	200	85	145	100	5	1012.5	940	50	145
16	160000	60	790	285	50	25	50	44	35	77.5	240	105	155	120	7.5	1077.5	1000	60	206
17	202000	60	915	294	50	25	50	44	35	85	240	105	170	120	7.5	1250	1165	60	274
18	244000	70	955	303	55	30	55	49	40	105	280	120	210	135	7.5	1315	1210	70	365
19	295000	80	1005	327.5	60	30	60	55	45	105	320	125	210	145	7.5	1405	1300	80	423
20	354000	80	1005	327.5	60	30	60	55	45	105	320	125	210	145	7.5	1405	1300	80	423
21	392000	80	1140	354	60	30	60	55	45	113	320	125	225	145	7.5	1562.5	1450	80	530
22	450000	80	1140	354	60	30	60	55	45	113	320	125	225	145	7.5	1562.5	1450	80	530
23	513000	90	1235	380	65	30	65	60	50	125	360	130	250	150	7.5	1700	1575	90	665
24	592000	90	1235	380	65	30	65	60	50	125	360	130	250	150	7.5	1700	1575	90	665
25	684000	100	1350	407	75	35	75	70	55	138	400	150	275	170	10	1857.5	1720	100	940
26	763000	100	1350	407	75	35	75	70	55	138	400	150	275	170	10	1857.5	1720	100	940
27	852000	110	1490	453	75	35	75	70	55	150	440	150	300	175	10	2050	1900	110	1120
28	950000	110	1490	453	75	35	75	70	55	150	440	150	300	175	10	2050	1900	110	1120
29	1060000	110	1600	483	75	35	75	70	55	158	440	150	315	175	10	2192.5	2035	110	1260
30	1200000	110	1600	483	75	35	75	70	55	158	440	150	315	175	10	2192.5	2035	110	1260
31 −36	根据用户要求供货 On reuqest																		

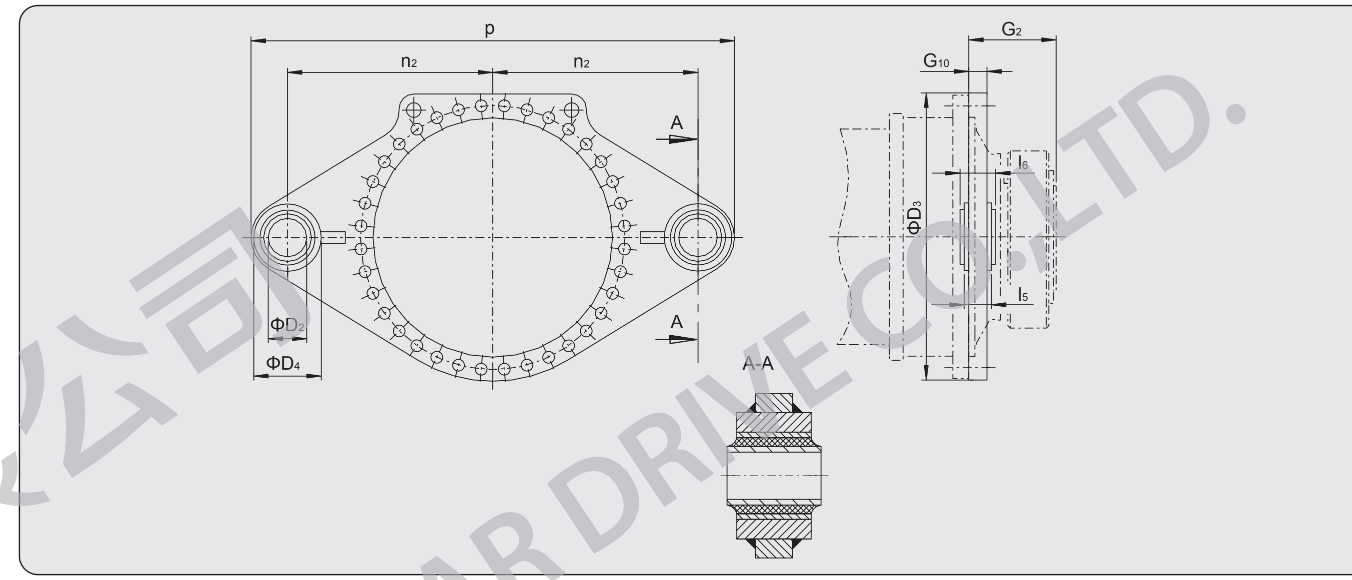
1) 公称尺寸B=22−35，公差−0.12
公称尺寸B=44−55，公差−0.15
公称尺寸B=60−70，公差−0.20

1) Nominal size B=22−35，tolerance−0.12
Nominal size B=44−55，tolerance−0.15
Nominal size B=60−70，tolerance−0.20

EQ系列行星减速器附件
EQ Series Planetary gear units Add-on Piece

3.带橡胶衬套的两侧扭矩支撑臂 Torque Reaction Arm on Two Sides with Rubber Bushes

76



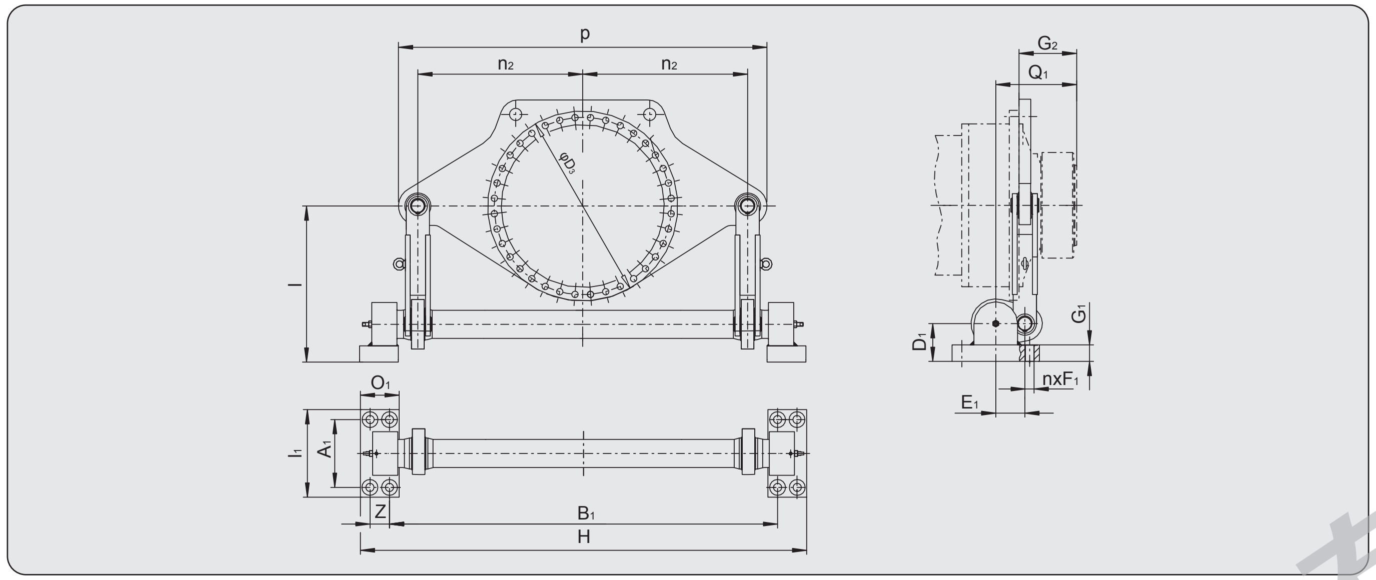
机座号 Size	额定输出扭矩 Output torque T_{2N} (N · m)	*) D_2 H9	D_3	D_4	G_2	G_{10}	l_5	l_6	n_2	P	重量 Weight (kg)
9	22000	50	440	115	165	30	100	110	500	1140	58
10	31000	50	485	115	174	30	100	110	550	1240	72
11	42000	100	540	180	204	30	110	120	575	1355	95
12	60000	100	620	180	224	35	110	120	625	1455	120
13	83000	110	665	210	241	35	170	180	600	1435	145
14	117000	110	740	210	278	40	170	180	650	1535	170
16	160000	124	790	240	285	40	220	230	700	1670	230
17	202000	124	915	240	288	40	220	230	750	1770	300
18	244000	124	955	240	303	50	220	230	900	2070	400

*)销轴: Φ h8 *)Pin: Φ h8

EQ系列行星减速器附件
EQ Series Planetary gear units Add-on Piece

4.扭力轴支撑架 Torsion Shaft Support

77



机座号 Size	额定输出扭矩 Output torque T_{2N} (N · m)	A_1	B_1	D_3	D_1	E_1	F_1 2)	数量 Qty n	G_1	G_2	H	I 1)	I_1	n_2	O_1	P	Q_1	Z	重量 Weight (kg)
9	22000	250	1414	610	120	105	33	8	48.5	165	1619	560	330	550	140	1230	247.5	65	300
10	31000	250	1414	610	120	105	33	8	48.5	174	1619	560	330	550	140	1230	256.5	65	300
11	42000	250	1414	610	120	105	33	8	48.5	204	1619	560	330	550	140	1230	286.5	65	300
12	60000	250	1414	610	120	105	33	8	48.5	224	1619	560	330	550	140	1230	306.5	65	300
13	83000	280	1604	775	155	145	39	8	68.5	241	1837	620	380	650	158	1450	358.5	75	600
14	117000	280	1604	775	155	145	39	8	68.5	278	1837	620	380	650	158	1450	395.5	75	600
16	160000	280	1604	775	155	145	39	8	68.5	285	1837	620	380	650	158	1450	402.5	75	600
17	202000	315	1777	955	170	165	39	8	73.5	294	2041	700	400	750	180	1680	431.5	84	900
18	244000	315	1777	955	170	165	39	8	73.5	303	2041	700	400	750	180	1680	440.5	84	900
19	295000	350	2000	985	195	175	45	8	83.5	328	2300	860	450	850	200	1900	470.5	100	1400
20	354000	350	2000	985	195	175	45	8	83.5	328	2300	860	450	850	200	1900	470.5	100	1400
21	392000	400	2254	1120	210	190	45	8	88.5	354	2591	900	530	950	225	2110	506.5	113	1700
22	450000	400	2254	1120	210	190	45	8	88.5	354	2591	900	530	950	225	2110	506.5	113	1700
23	513000	450	2496	1215	235	220	45	8	98.5	380	2871	1060	590	1063	250	2385	562.5	125	2150
24	592000	450	2496	1215	235	220	45	8	98.5	380	2871	1060	590	1063	250	2385	562.5	125	2150
25	684000	500	2816	1350	275	245	52	8	118.5	407	3236	1200	650	1150	280	2600	614.5	140	2700
26	763000	500	2816	1350	275	245	52	8	118.5	407	3236	1200	650	1150	280	2600	614.5	140	2700
27	852000	530	2887	1490	300	255	52	8	128.5	453	3327	1250	700	1250	290	2820	670.5	150	3400
28	950000	530	2887	1490	300	255	52	8	128.5	453	3327	1250	700	1250	290	2820	670.5	150	3400
29	1060000	560	3200	1565	300	280	62	8	128.5	483	3673	1350	750	1360	315	3080	718	158	4350
30	1200000	560	3200	1565	300	280	62	8	128.5	483	3673	1350	750	1360	315	3080	718	158	4350
31	1330000	590	3408	1695	340	300	70	8	148.5	538	3906	1400	790	1450	330	3260	788	168	5500
32	1500000	590	3408	1695	340	300	70	8	148.5	538	3906	1400	790	1450	330	3260	788	168	5500
33	1680000	620	3588	1785	375	320	70	8	158.5	573	4116	1500	840	1550	350	3520	840.5	178	7000
34	1920000	620	3588	1785	375	320	70	8	158.5	573	4116	1500	840	1550	350	3520	840.5	178	7000
35 - 36	根据用户要求供货 On request																		

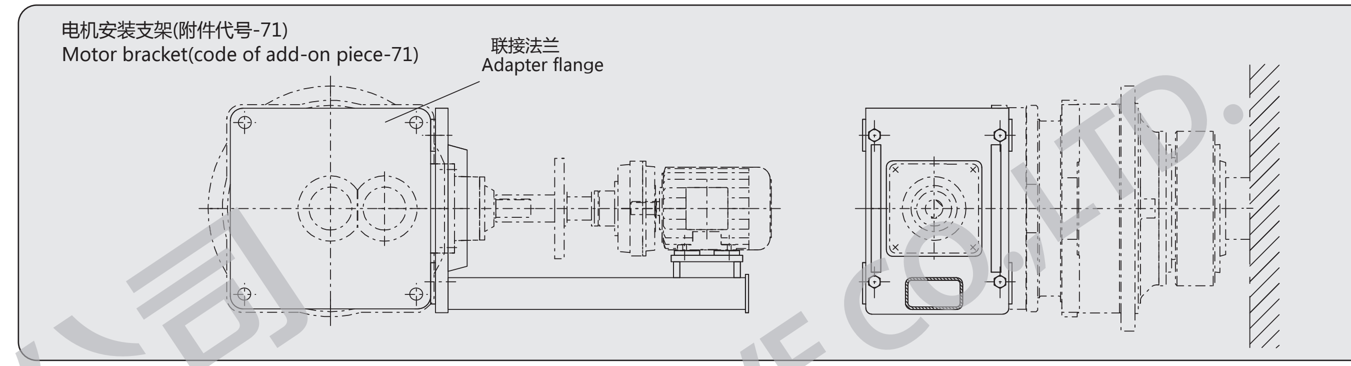
1) 标准尺寸，整体高度可修正到2000mm
2) 锁紧用螺栓强度不得低于6.8级

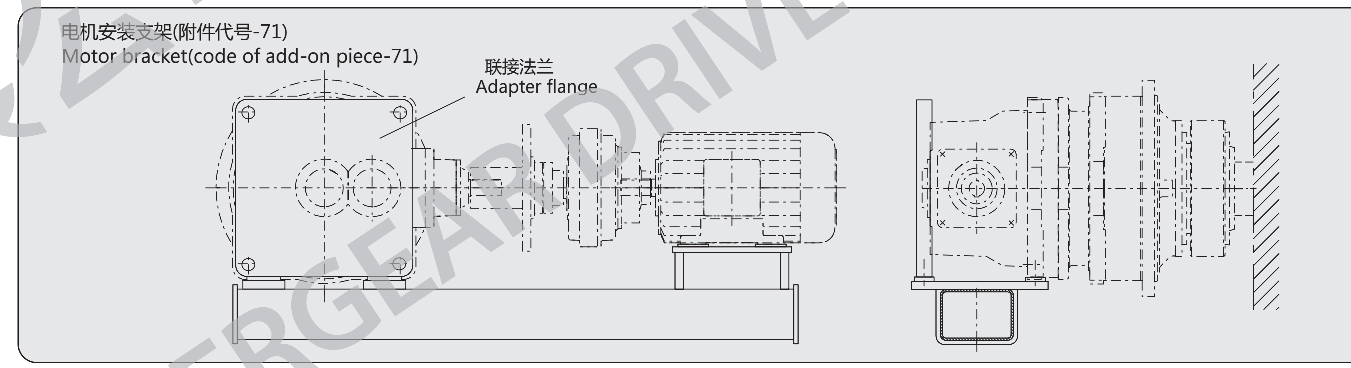
1) Standard dimension, overall height modifiable up to 2000mm
2) The bolts used for lock are not lower than class 6.8

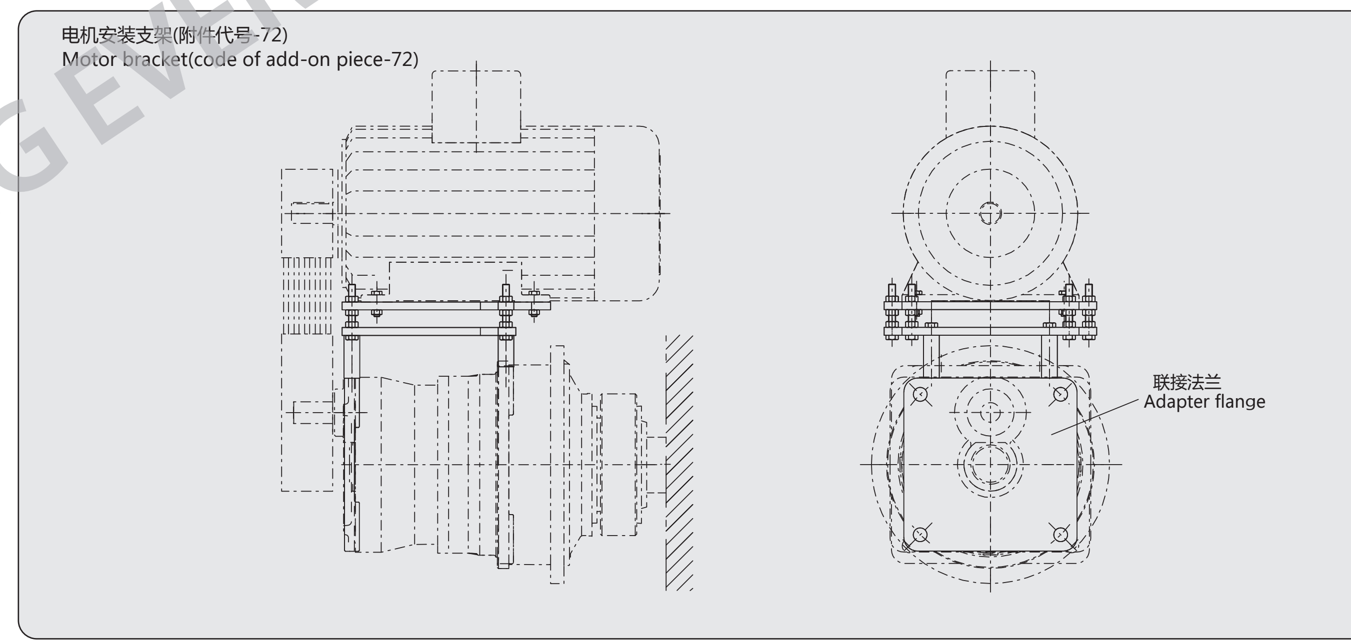
EQ系列行星减速器附件
EQ Series Planetary gear units Add-on Piece

5.电机安装支架 Motor bracket

71、72



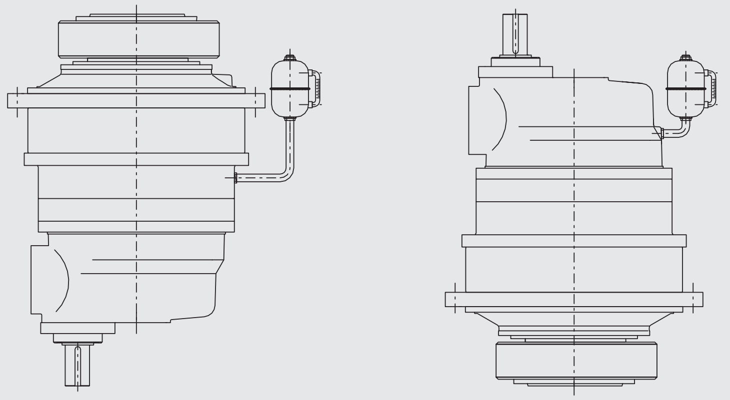




如果不用钟形电机支架，可以采用法兰联接的电机支架，如上图所示。
In cases where no motor bell housings are provided we use an adapter flange to attach motor brackets, they are shown in the above drawings.

EQ系列行星减速器附件
EQ Series Planetary gear units Add-on Piece

6.立式安装补偿油箱
Oil Compensating Tank for Vertical Mounting Positionort

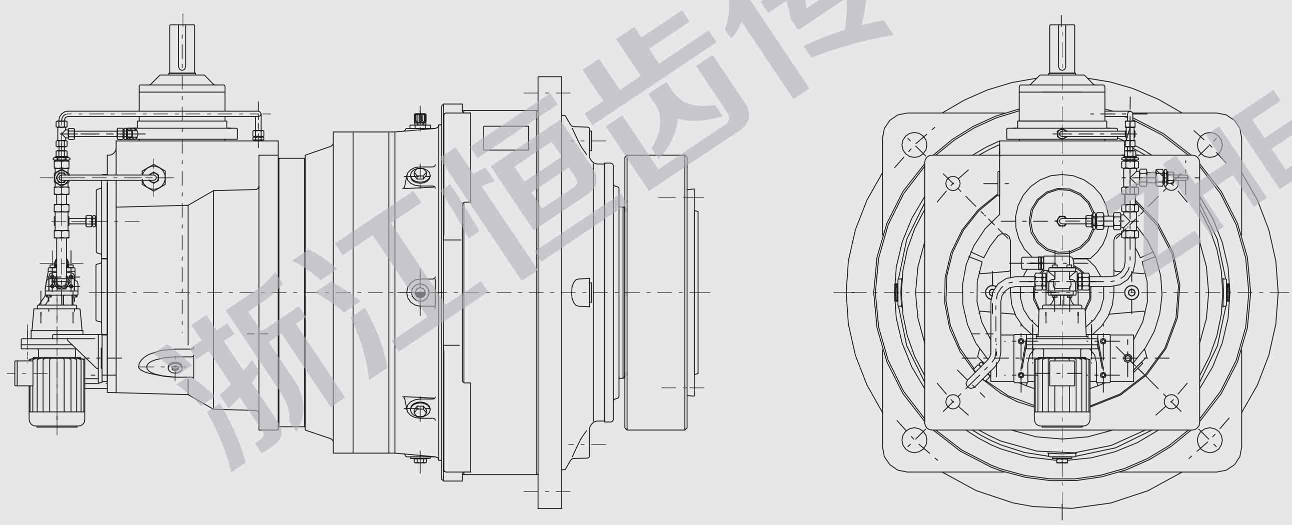


立式安装时，为保证上端的轴承得到可靠润滑必须相应的提高油位，油位通过家装的补偿油箱来加高和检查。补偿油箱上装有通气孔器，如上图所示。油箱可安装在减速器上，也可安装在客户的机器上。

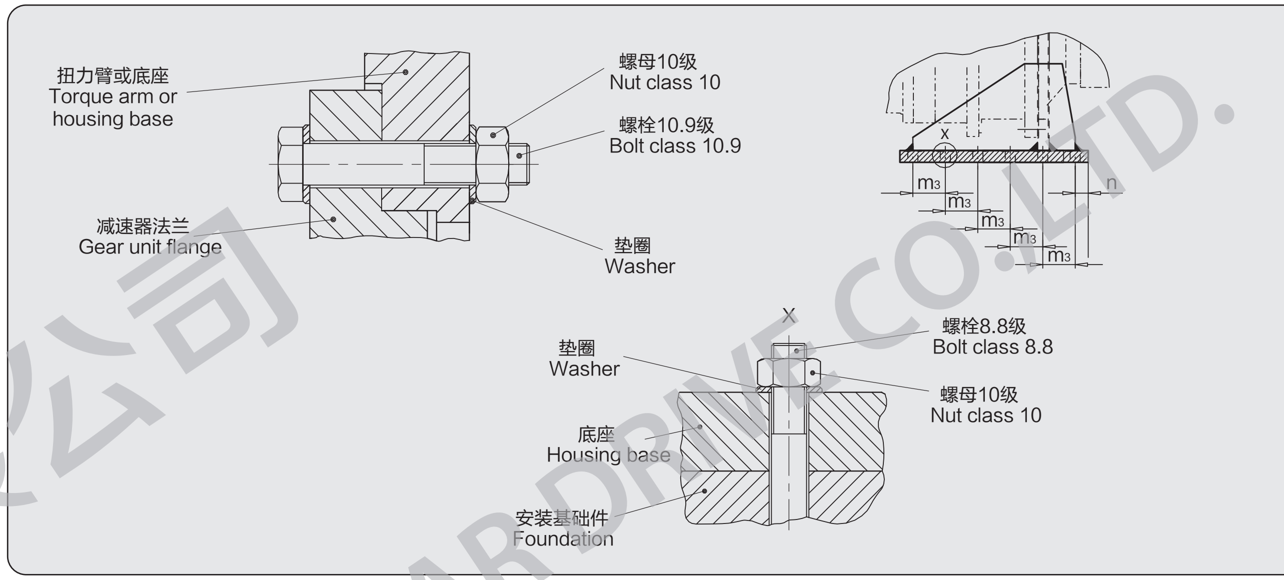
In case of vertical mounting position, to ensure the lubrication of the upper bearing, the oil level is inc-reased accordingly, the oil level is increased and che-cked via an oil compensating tank fitted separately. The oil tank installs the breather valve, it' s shown in the above drawings. The oil tank can be attached either to the gear units, or to the customer' s machine frame.

EQS、EQK、EQL当安装布置方位为B51的卧式安装时需配备电动油泵强制润滑，如下图

For EQS、EQK、EQL, in case of mounting positions B51 horizontal, it needs to mount the motor pumps for forced lubrication. Shown in the following drawings.



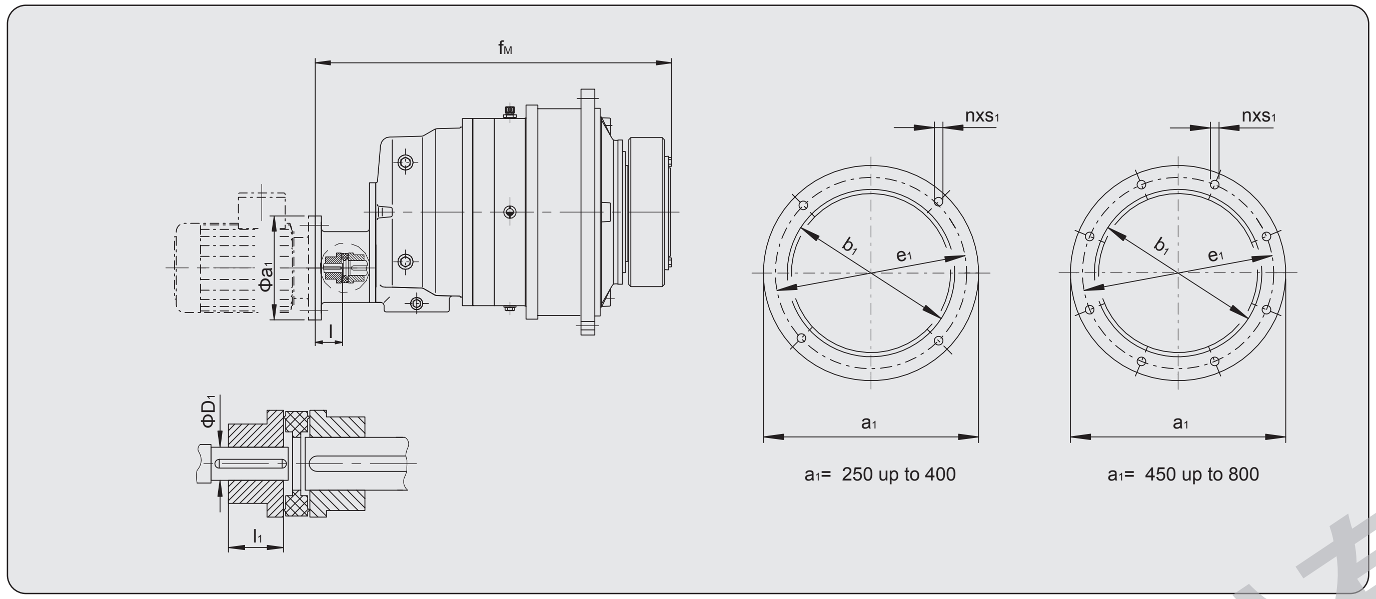
法兰联接及底座安装的螺母预紧扭矩
Thghtening Torques for Flange Connections and Foot-mouted Design



机座号 Size	法兰联接 Flange attachment		底座联接 Base attachment	
	螺栓 Thread (10.9)	预紧扭矩(N.m) Tightening torque	螺栓 Thread (8.8)	预紧扭矩(N.m) Tightening torque
9	M16	295	M24	710
10	M16	295	M24	710
11	M20	580	M24	710
12	M24	1000	M24	710
13	M24	1000	M24	710
14	M24	1000	M30	1450
16	M24	1000	M30	1450
17	M30	2000	M36	2530
18	M30	2000	M36	2530
19/20	M30	2000	M42	4070
21/22	M36	3560	M48	6140
23/24	M36	3560	M48	6140
25/26	M42	5720	M56	9840
27/28	M48	8640	M56	9840
29/30	M48	8640	M64	14300
31/32	M56	13850	M64	14300
33/34	M56	13850	M64	14300
35/36	M56	13850	M72x6	20800

EQ系列减速机带电机法兰输入
Planetary gear units with motor flange and coupling

With Motor Bell Housing and Coupling Type Q2S



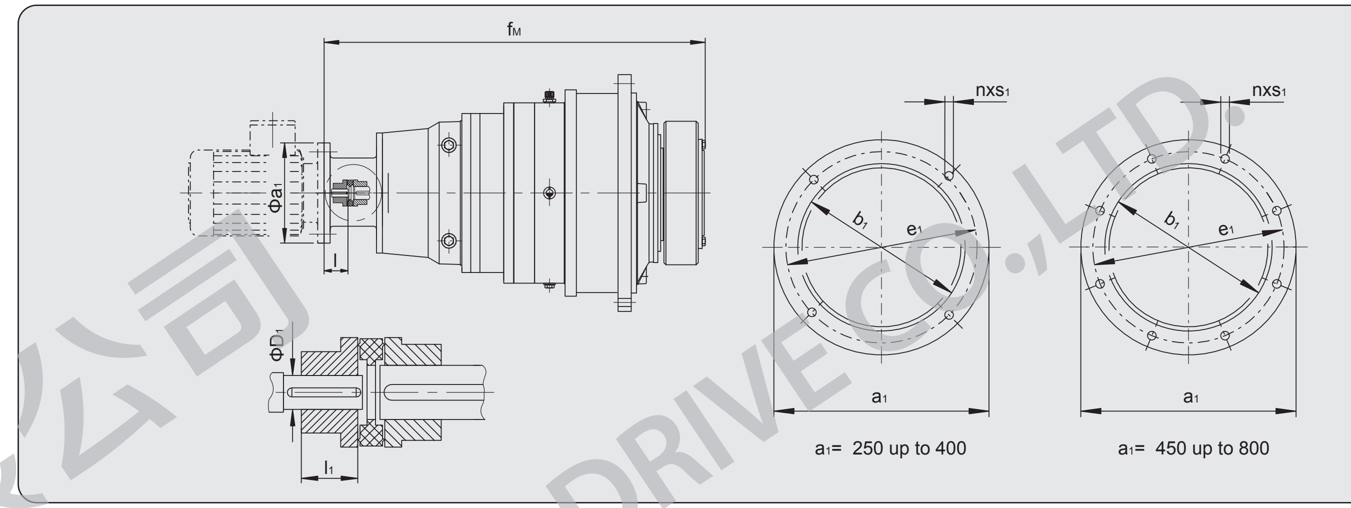
EQ2S	电机 Motor (Y)*	法兰 Flange (F)**	a1	b1(h7)	D1	e1	fM	l1	l	n	s1
9	160		350	250	42	300	827	50	85	4	M16
	180		350	250	48	300	827	50	85	4	M16
10	160		350	250	42	300	856	50	85	4	M16
	180		350	250	48	300	856	50	85	4	M16
11	160		350	250	42	300	995	60	95	4	M16
	180		350	250	48	300	995	60	95	4	M16
	200		400	300	55	350	1007	75	110	4	M16
12	160		350	250	42	300	1029	60	95	4	M16
	180		350	250	48	300	1029	60	95	4	M16
	200		400	300	55	350	1041	75	110	4	M16
13	225		450	350	60	400	1243	80	130	8	M16
	250		550	450	65	500	1243	80	130	8	M16
14	225		450	350	60	400	1303	80	130	8	M16
	250		550	450	65	500	1303	80	130	8	M16
16	250		550	450	65	500	1432	80	120	8	M16
	280		550	450	75	500	1447	90	130	8	M16
17	250		550	450	65	500	1467	80	120	8	M16
	280		550	450	75	500	1482	90	130	8	M16
18	315		660	550	80	600	1660	90	120	8	M20
19, 20	315		660	550	80	600	1708	90	120	8	M20

注 :1) “ * ” 所选直联电机机座号所对应的功率应满足传动能力表
“ ** ” 表格中所示的法兰为标准型号的法兰，如有异同请另咨询
2) 侧面扭力臂组合，请咨询

Note :1) “ * ” Power of selected motor must meet transmissio table
“ ** ” Indicate standard flange, if special dimension is needed, please consult us
2) For combination with torque arm on one side, please refer to us

EQ系列减速机带电机法兰输入
Planetary gear units with motor flange and coupling

With Motor Bell Housing and Coupling Type EQ3N



EQ3N	电机 Motor (Y)*	法兰 Flange (F)**	a1	b1(h7)	D1	e1	fM	l1	l	n	s1
9	132		300	230	38	265	912	60	84	4	M12
	160		350	250	42	300	948	60	90	4	M16
	180		350	250	48	300	948	65	95	4	M16
10	132		300	230	38	265	941	60	84	4	M12
	160		350	250	42	300	977	60	90	4	M16
	180		350	250	48	300	977	65	95	4	M16
11	132		300	230	38	265	1002	60	84	4	M12
	160		350	250	42	300	1038	60	90	4	M16
	180		350	250	48	300	1038	65	95	4	M16
12	132		300	230	38	265	1036	60	84	4	M12
	160		350	250	42	300	1072	60	90	4	M16
	180		350	250	48	300	1072	65	95	4	M16
13	160		350	250	42	300	1147	60	90	4	M16
	180		350	250	48	300	1147	65	95	4	M16
	200		400	300	55	350	1159	75	105	4	M16
14	160		350	250	42	300	1207	60	90	4	M16
	180		350	250	48	300	1207	65	95	4	M16
	200		400	300	55	350	1219	75	105	4	M16
16	200		400	300	55	350	1372	80	100	4	M16
	225		450	350	60	400	1413	80	130	8	M16
17	200		400	300	55	350	1407	80	100	4	M16
	225		450	350	60	400	1448	80	130	8	M16
18	250		500	450	65	500	1607	80	120	8	M16
	280		550	450	75	500	1628	90	130	8	M16
19, 20	250		550	450	65	500	1665	80	120	8	M16
	280		550	450	75	500	1675	90	130	8	M16

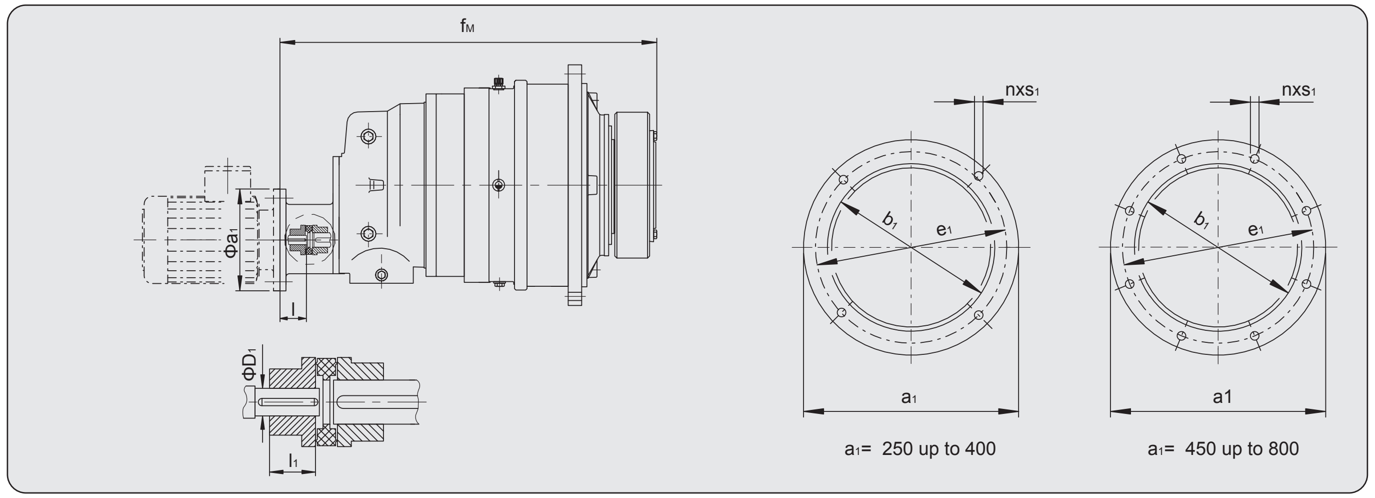
注 : 1) “ * ” 所选直联电机机座号所对应的功率应满足传动能力表
“ ** ” 表格中所示的法兰为标准型号的法兰，如有异同请另咨询
2) 侧面扭力臂组合，请咨询

Note : 1) “ * ” Power of selected motor must meet transmissio table
“ ** ” Indicate standard flange, if special dimension is needed, please consult us
2) For combination with torque arm on one side, please refer to us

EQ

EQ系列减速机带电机法兰输入
Planetary gear units with motor flange and coupling

With Motor Bell Housing and Coupling Type Q3S



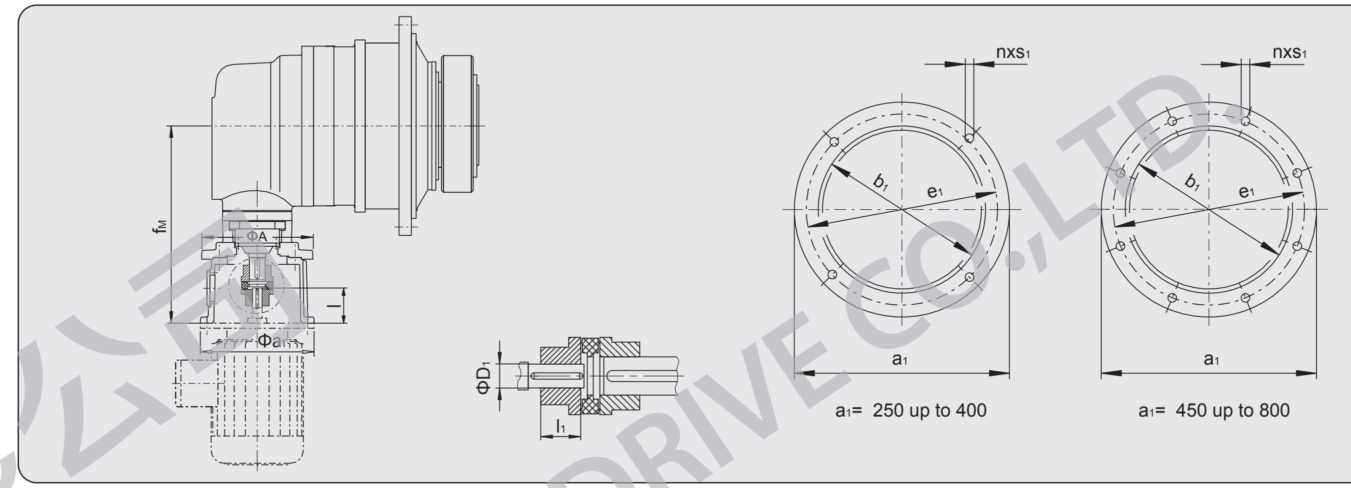
EQ3S	电机 Motor (Y)*	法兰 Flange (F)**	a_1	b_1	D_1	e_1	f_M	l_1	l	n	s_1
9	100		250	180	28	215	855	50	65	4	M12
	112		250	180	28	215	855	50	65	4	M12
	132		300	230	38	265	887	50	60	4	M12
	160		350	250	42	300	923	50	85	4	M16
10	100		250	180	28	215	884	50	65	4	M12
	112		250	180	28	215	884	50	65	4	M12
	132		300	230	38	265	916	50	60	4	M12
	160		350	250	42	300	952	50	85	4	M16
11	112		250	180	28	215	945	50	65	4	M12
	132		300	230	38	265	977	50	60	4	M12
	160		350	250	42	300	1013	50	85	4	M16
	180		350	250	48	300	1013	50	85	4	M16
12	112		250	180	28	215	979	50	65	4	M12
	132		300	230	38	265	1011	50	60	4	M12
	160		350	250	42	300	1047	50	85	4	M16
	180		350	250	48	300	1047	50	85	4	M16
13	132		300	230	38	265	1086	50	60	4	M12
	160		350	250	42	300	1122	50	85	4	M16
	180		350	250	48	300	1122	50	85	4	M16
14	132		300	230	38	265	1146	50	60	4	M12
	160		350	250	42	300	1182	50	85	4	M16
	180		350	250	48	300	1182	50	85	4	M16
16	160		350	250	42	300	1350	60	95	4	M16
	180		350	250	48	300	1350	65	100	4	M16
	200		400	300	55	350	1362	75	110	4	M16
17	160		350	250	42	300	1385	60	95	4	M16
	180		350	250	48	300	1385	65	100	4	M16
	200		400	300	55	350	1397	75	110	4	M16
18	180		350	250	48	300	1552	80	100	4	M16
	200		400	300	55	350	1564	80	100	4	M16
	225		450	350	60	400	1605	80	100	8	M16
	250		550	450	65	500	1605	80	100	8	M16
19 , 20	180		350	250	48	300	1599	80	100	4	M16
	200		400	300	55	350	1611	80	100	4	M16
	225		450	350	60	400	1652	80	100	8	M16
	250		550	450	65	500	1652	80	100	8	M16

注：1) “ * ” 所选直联电机机座号所对应的功率应满足传动能力表
“ ** ” 表格中所示的法兰为标准型号的法兰，如有异同请另咨询
2) 侧面扭力臂组合，请咨询

Note：1) “ * ” Power of selected motor must meet transmissio table
“ ** ” Indicate standard flange, if special dimension is needed, please consult us
2) For combination with torque arm on one side, please refer to us

EQ系列减速机带电机法兰输入
Planetary gear units with motor flange and coupling

With Motor Bell Housing and Coupling Type EQ2K



EQ2K	电机 Motor (Y)*	法兰 Flange (F)**	a_1	A	b_1	D_1	e_1	f_M	l	l_1	n	s_1
9, 10	132		300	250	230	38	265	475	45	35	4	M12
	160		350	250	250	42	300	502.5	75	40	4	M16
11, 12	160		350	300	250	42	300	570	75	40	4	M16
	180		350	350	250	48	300	570	75	50	4	M16
	200		400	350	300	55	350	582.5	95	60	4	M16
13,14	160		350	440	250	42	300	658.5	75	40	4	M16
	180		350	440	250	48	300	658.5	85	50	4	M16
	200		400	440	300	55	350	664.5	95	60	4	M16
	225		450	440	350	60	400	690.5	125	65	8	M16
	250		550	440	450	65	500	695	120	65	8	M16
16, 17	200		400	440	300	55	350	754.5	90	60	4	M16
	225		450	440	350	60	400	795.5	125	65	8	M16
	250		550	440	450	65	500	797	120	65	8	M16
	280		550	440	450	75	500	796	130	75	8	M16
18, 19, 20	225		450	440	350	60	400	898.5	125	65	8	M16
	250		550	440	450	65	500	898.5	120	65	8	M16
	280		550	440	450	75	500	899	130	75	8	M16
	315*		660	440	550	80	600	921	150	80	8	M20

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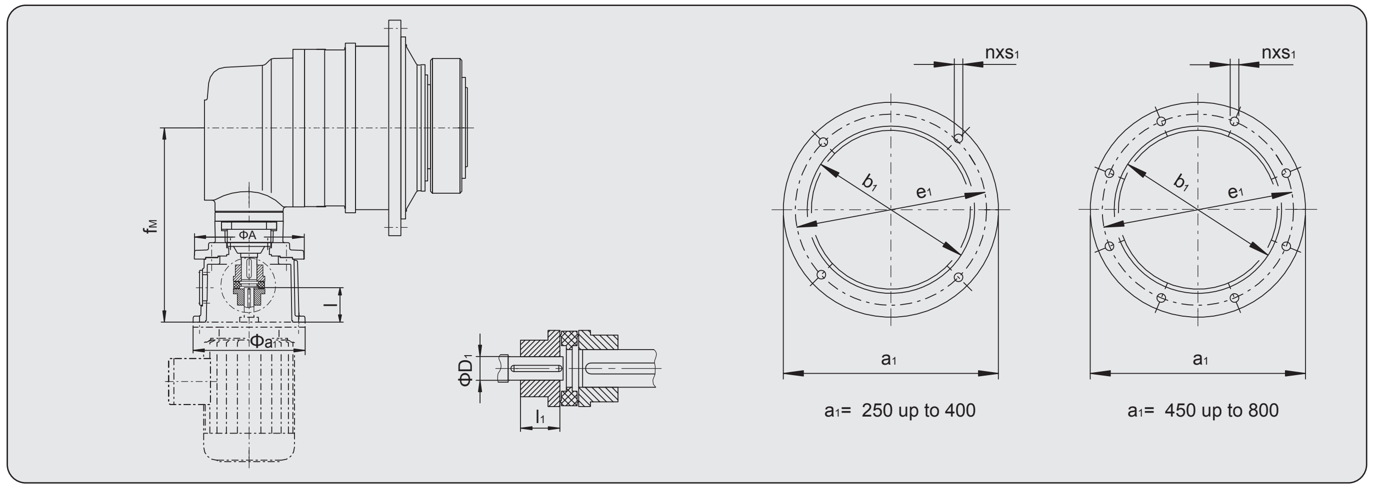
“ ** ” 表格中所示的法兰为标准型号的法兰，如有异同请另咨询
2) 侧面扭力臂组合，请咨询

Note :1) “ * ” Power of selected motor must meet transmissio table
“ ** ” Indicate standard flange, if special dimension is needed, please consult us
2) For combination with torque arm on one side, please refer to us

EQ系列减速机带电机法兰输入
Planetary gear units with motor flange and coupling

With Motor Bell Housing and Coupling Type EQ2L



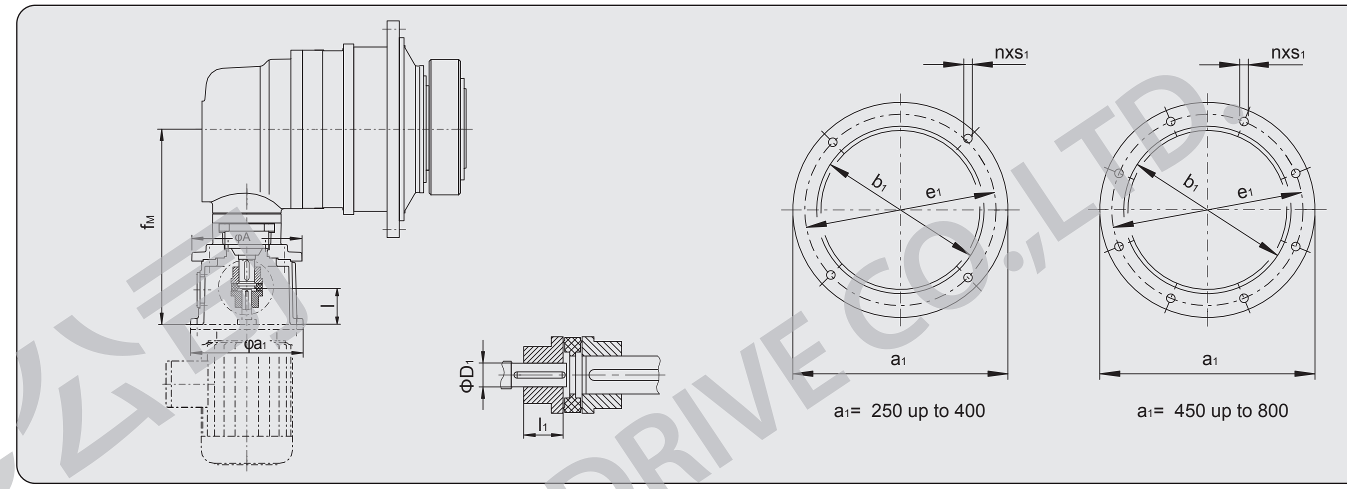
EQ2L	电机 Motor (Y)*	法兰 Flange (F)**	a1	A	b1	D1	e1	fM	l	l1	n	s1
9, 10	160		350	440	250	42	300	518.5	75	40	4	M16
	180		350	440	250	48	300	518.5	85	50	4	M16
	200		400	440	300	55	350	524.5	95	60	4	M16
	225		450	440	350	60	400	550.5	125	65	8	M16
11, 12	200		400	440	300	55	350	584.5	95	60	4	M16
	225		450	440	350	60	400	625.5	125	65	8	M16
	250		550	440	450	65	500	627	120	65	8	M16
13,14	225		450	440	350	60	400	698.5	120	65	8	M16
	250		550	440	450	65	500	698.5	120	65	8	M16
	280		550	440	450	75	500	699	130	75	8	M16
16, 17	280		550	600	450	75	500	808	115	75	8	M16
	315*		660	650	550	80	600	825	150	80	8	M20
	315MC		660	650	550	80	600	825	160	90	8	M20
	315MD		660	650	550	80	600	825	160	90	8	M20
	315LB		660	650	550	80	600	825	170	100	8	M20
18, 19, 20	315*		660	650	550	80	600	938	150	80	8	M20
	315MC		660	650	550	80	600	938	160	90	8	M20
	315MD		660	650	550	80	600	938	160	90	8	M20
	315LB		660	650	550	80	600	938	170	100	8	M20
21, 22, 23, 24	315MC		660	650	550	80	600	1085	135	90	8	M20
	315MD		660	650	550	80	600	1085	135	90	8	M20
	315LB		660	650	550	80	600	1085	145	100	8	M20
	355MB		800	650	680	95	740	1087	145	100	8	M20
	355LB		800	650	680	95	740	1087	155	110	8	M20

注 :1) “ * ” 所选直联电机机座号所对应的功率应满足传动能力表
“ ** ” 表格中所示的法兰为标准型号的法兰，如有异同请另咨询
2) 侧面扭力臂组合，请咨询

Note :1) “ * ” Power of selected motor must meet transmissio table
“ ** ” Indicate standard flange, if special dimension is needed, please consult us
2) For combination with torque arm on one side, please refer to us

EQ系列减速机带电机法兰输入
Planetary gear units with motor flange and coupling

With Motor Bell Housing and Coupling Type EQ3K



EQ3K	电机 Motor (Y)*	法兰 Flange (F)**	a1	A	b1	D1	e1	fM	l	l1	n	s1
9, 10, 11, 12, 13, 14	132		300	250	230	38	265	475	45	35	4	M12
	160		350	250	250	42	300	502.5	75	40	4	M16
	180		350	250	250	48	300	502.5	75	40	4	M16
16, 17	160		350	350	250	42	300	571.5	75	40	4	M16
	180		350	350	250	40	300	571.5	85	50	4	M16
	200		400	350	300	55	350	582.5	95	60	4	M16
18, 19, 20 21, 22	160		350	440	250	42	300	658.5	75	40	4	M16
	180		350	440	250	48	300	658.5	85	50	4	M16
	200		400	440	300	35	350	664.5	95	60	4	M16
	225		450	440	350	60	400	690.5	125	65	8	M16
	250		550	440	450	65	500	690.5	120	65	8	M16
23, 24, 25, 26	200		400	440	300	55	350	754.5	90	60	4	M16
	225		450	440	350	60	400	795.5	125	65	8	M16
	250		550	440	450	52	500	797	120	65	8	M16
	280		550	440	450	75	500	796	130	75	8	M16
27, 28, 29, 30	225		450	440	350	60	400	898.5	120	65	8	M16
	250		550	440	450	65	500	898.5	120	65	8	M16
	280		550	440	450	75	500	884	130	75	8	M16
	315*		660	440	550	80	600	921	150	80	8	M20

注 :1) “ * ” 所选直联电机机座号所对应的功率应满足传动能力表
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2) 侧面扭力臂组合，请咨询

Note :1) “ * ” Power of selected motor must meet transmissio table
“ ** ” Indicate standard flange, if special dimension is needed, please consult us
2) For combination with torque arm on one side, please refer to us

EQ系列行星减速机
EQ Series Planetary gear units

减速器润滑
润滑油种类选择

减速器使用工况	润滑油种类
冶金轧刚、井下采掘、高温有冲击、含水等	L-CKD重载荷工业齿轮油(GB5903-1995)
其余工况	L-CKC中载荷工业齿轮油(GB5903-1995)

注 若选用合成齿轮油则更具有良好的抗老化性能，可有效地提高减速器的机械效率。

润滑油粘度

条件	润滑油粘度等级 40℃温度下的ISO-VG 粘度mm²/s(cst)
高速圆周速度v＜2.5m/s, 或环境温度在35-50℃之间	VG320(或VG460)
高速级齿轮圆周速度v＞2.5m/s, 或环境温度在35℃以下, 或采用循环油润滑	VG220

浸油润滑润滑油的工作温度

润滑油种类	工作温度/℃
中载荷工业齿轮油L-CKC	-8℃至+90℃ (瞬间可达100℃)
重载荷工业齿轮油L-CKD	-5℃至+100℃ (瞬间可达110℃)

注意 :如果减速器的工作温度高于或低于表中规定极限值则应重新确定合适的润滑油。当环境温度低于0℃时启动前油温需加热到0℃以上。

强制润滑润滑油允许的极限温度

40℃温度下的ISO-VG 粘度mm²/s(cst)	强制润滑允许的极限温度/℃	
	矿物油	合成油
VG220	10-80	0-90
VG320	15-90	5-100
VG460	20-95	10-105

注意 :当油温低于表中所列数值时，必须提供浸油润滑方式，或对润滑油加热。

Gear Units Lubrication
Lubricant selection

Operating conditions of Gear units	Lubricant specification
Steel rolling, excavating, high temperature with shock, moisture, etc.	L-CKD heavy load industrial gear oil (GB5903-1995)
Others	L-CKC moderate load industrial gear oil (GB5903-1995)

Note :It adopts the synthetic oil which has the better performance of anti-ageing so that improves the mechanical efficiency effectively.

Lubricant viscosity

Conditions	Lubricant viscosity classification Viscosity ISO-VG at 40℃ in mm²/s(cst)
Rotation velocity of high speed stage v＜2.5m/s, or ambient temperature between 35-50℃	VG320(or VG460)
Rotation velocity of high speed stage v＞2.5m/s, or ambient temperature at 35℃, or lubrication with circulating oil	VG220

Lubricant viscosity

Lubricant specification	Working temperature/℃
L-CKC moderate load industrial gear oil	From -8℃ to +90℃ (up to 100℃ moment)
L-CKD heavy load industrial gear oil	From -5℃ to +100℃ (up to 110℃ moment)

Notes :If the temperatures of gear units are above to below the values as listed in table, it determines the proper oil again, If the ambient temperatures are below 0℃, the oil has to be heated above 0℃.

Permissible temperature limit for forced feed lubrication

Viscosity ISO-VG at 40℃ in mm²/s(cst)	Permissible temperature limit for forced feed lubrication/℃	
	Mineral oil	Synthetic oil
VG220	10-80	0-90
VG320	15-90	5-100
VG460	20-95	10-105

Notes :If the temperatures are below the values as listed in table, dip lubrication has to be provded or the oil must be heated.

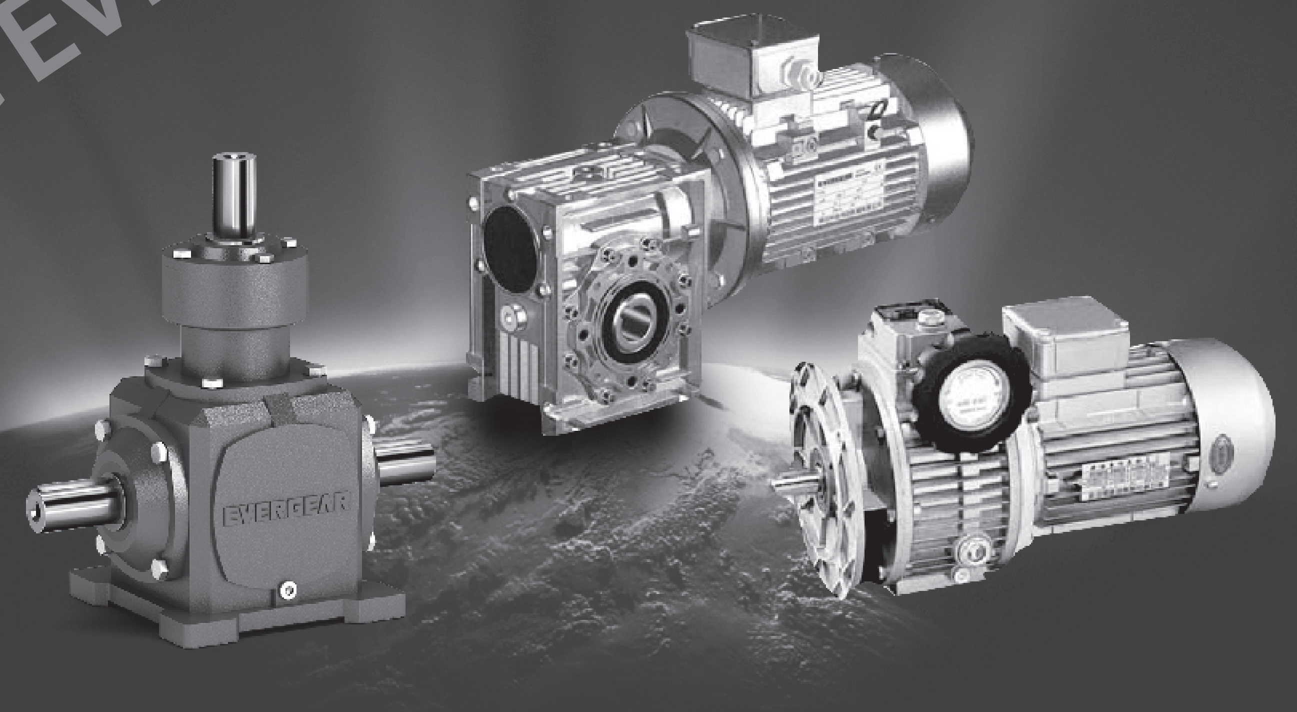
EQ

OTHER Series

EZ系列弧齿锥齿轮减速机
EZ Series Spiral Bevel Gear Reducer

MB无级变速机
MB Variable Speed Machine

NMRV蜗轮减速机
NMRV Worm Wheel Reducer



EVERGEAR