



**SHANGHAI
TAIXING DRIVE
TECHNOLOGY
CO., LTD.**

P系列行星齿轮减速机
P Series Gear Speed Reducer

臺星傳動

(上海)臺星傳動科技有限公司
SHANGHAI TAIXING DRIVE TECHNOLOGY CO., LTD.

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树企业形象 创优质品牌……



- ISO9001 国际质量体系认证
- International quality system certificate



About Us

关于我们

(上海)台星传动科技有限公司是生产减速机、变速机等传动设备的专业制造商。公司一直致力于传动产品的研制和生产，产品在国际市场享有很高的声誉，在动力传输领域有极高的知名度。

公司拥有世界先进的加工机床与检测设备、雄厚的技术力量，为用户提供高品质的产品。主要产品有P系列行星齿轮减速机、K系列斜齿轮—螺旋伞齿轮减速机、T系列螺旋伞齿轮转向箱、R系列硬齿面齿轮减速机、F系列平行轴减速机、S系列斜齿轮—蜗轮减速机、H、B系列硬齿面工业齿轮箱、NMRV蜗轮减速机等各系列产品，主要零部件硬齿面齿轮采用渗碳淬火处理，磨齿加工精度5级，确保产品的可靠性及低噪音。

台星产品具有高强度、体积小、噪音低、传动扭矩大等特点，广泛应用于环保工程、啤酒饮料、纺织印染、石化、轻工、钢铁冶金、仓库物流、立体车库等行业。

Shanghai Taixing Driving Science & Technology Co., Ltd is a professional manufacturer specialized in producing reductor, transmission and etc. driving equipment. Our company always engages in researching and producing driving product and our product has higher report in international market, what"more, our product is well-known at driving trasmission field.

We offer high grade product for client because of our international advanced processing machine tool & testing equipment and strong technology force. Our main products are P Series Gear Speed Reducer,K series bevel wheel—screw—and-nut steering gear reducer, T series screw—and-nut steering gear turning case, R series hard tooth gear reducer, F series parallel-axis reducer, S series bevel wheel—worm wheel reducer, H series hard tooth industrial gear case, NMRV worm wheel reducer and so on. The main parts adopt cementite quenching heat treatment and the processing precision of grinding gear is five grade which lead our product with high security and low noise.

Taixing product has high strength, small volume, low noise, big driving distance and etc. characteristics which is widely used to environment protective project, beer & beverage, weave, printing & dyeing, light industry and etc. Callings.



先进的制造设备
Advanced manufacturing equipment



类型说明 / Explanation of types

一. P系列行星减速器类型

- P2N — 二级行星齿轮传动;
 P2L — 直交轴、二级行星齿轮传动;
 P2S — 平行轴、二级行星齿轮传动;
 P2K — 直交轴、平行轴、二级行星齿轮传动;
 P3N — 三级行星齿轮传动;
 P3S — 平行轴、三级行星齿轮传动;
 P3K — 直交轴、平行轴、三级行星齿轮传动;

一. P series planetary gear units type

- P2N — 2-stage planetary gear units;
 P2L — Bevel,2-stage planetary gear units;
 P2S — Helical,2-stage planetary gear units;
 P2K — Bevel-helical,2-stage planetary gear units;
 P3N — 3-stage planetary gear units;
 P3S — Helical,3-stage planetary gear units;
 P3K — Bevel-helical,3-stage planetary gear units;



型号表示方法 / Type Designations

一. P系列行星减速器型号与标记

Type designations of P series planetary gear units

 减速器类型 行星传动级数 传动结构形式 输出轴形式 机座号 传动比 安装布置形式 附件 带直交轴传动 输入轴旋转方向		 Gear units type Number of planetary gear stages Structure Output shaft Size Ratio Mounting position Add-on pieces Direction code of rotation of input shaft for bevel gear stage	
型号说明	上例说明	Explanation of types	Explanation of the above example
减速器类型: P系列行星减速器	P系列行星减速器	Gear units type: P series planetary gear units	P series planetary gear units
行星传动级数: 2 二级传动 3 三级传动	二级行星传动	Number of planetary gear stages: 2 two stages 3 three stages	Two planetary gear stages
传动结构形式: N 标准型 L 带直交轴传动 S 带平行轴传动 K 带直交轴、平行轴传动	带平行轴传动	Structure: N Standard L Bevel gear stage S Helical gear stage K Bevel-helical gear stage	Helical gear stage
输出轴形式: AZ 胀紧盘空心轴 AH 渐开线花键空心轴 BS 平键实心轴 BH 渐开线花键实心轴	胀紧盘空心轴输出	Output shaft: AZ hollow shaft with shrink disk AH hollow shaft with involute splines BS solid shaft with parallel key BH solid shaft with involute splines	Hollow shaft with shrink disk
机座号: 9-36 (见选型表)	12号机座号	Size: 9-36(see selection table)	Size 12
传动比: (见选型表) (实际传动比见22-24页)	公称传动比 iN=80	Ratio: (see selection table) (for the actual ratio see pages 22-24)	Nominal ratio iN=80
安装布置形式: B500-B556 水平 V100-V130 立式 (低速轴向下) V300-V330 立式 (低速轴向上) 见 36 页	安装布置形式为B512B553 水平安装输入轴在右边 扭转支撑臂(一端)在下边	Mounting position: B500-B556 Horizontal V100-V130 Vertical(output shaft is downward) V300-V330 Vertical(output shaft is upward) See page 36	Mounting formB512B553 horizontal,input shaft at the right side,torque reaction arm on down side
带直交轴传动输入轴旋转方向代号 (面对输入轴方向看): CW 顺时针 CCW 逆时针 其它省略	平行轴传动省略	Direction code of rotation of input shaft for bevel gear stage (viewing on input shaft): CW Clockwise CCW Counter clockwise The others can be omitted	Helical gear stage omitted
附件: 99 无附件 96 减速器底座 70 电机钟形支座(输入) 71 电机托架 72 电机支架 73 摆动底座 74 钟形支座 (输出) 75 扭矩支撑臂 (一侧) 76 扭矩支撑臂 (二侧) 77 扭力轴支撑 见 37 页	带减速器底座 电机钟形支座(输入)	Add-on pieces: 99 without add-on piece 96 gear housing base 70 motor bell housing(input) 71 motor bracket 72 motor bracket 73 motor swing-base 74 bell-housing(output) 75 torque reaction arm(on one side) 76 torque reaction arm(on both sides) 77 torsion shaft support see page 37	Add-on the gear housing base Motor bell housing (input)

要 求 和 说 明

- ★为选择合适的P系列行星减速器请按样本中的详细说明进行。
- ★提供行星减速器可以直接安装。但不提供润滑油。
- ★给出的加油量只作为参考值，实际加油量应以油标的标记为准。
- ★减速器若未注明要求时一般为浸油润滑，若需要采用强制润滑请联系我们。
- ★对于B521、B351安装形式的全部规格和B511安装形式的21号规格以上的减速器，为了润滑输入部分轴承需加油泵润滑。
- ★对于V100/V300、V110/V310、V120/V320、V130/V330安装形式的减速器，为了确保润滑，必须相应提高油位，需加装补偿油箱。补偿油箱可装在减速器上也可装在用户主机上确定该项时请联系我们。
- ★使用环境温度低于0℃时润滑油应预热到0℃以上。环境温度高于40℃以上时应采取隔热和冷却措施。使用场地应避开恶劣的环境比如：盐水、含盐的空气、刺激性物质、灰尘、泥、落石或飞石、过重的压力、强烈振动和冲击载荷等。
- ★胀紧盘空心输出轴减速器按标准提供胀紧盘，但不提供防护装置。为防止发生事故，所有旋转部位应按安全规定加罩防护。
- ★基础螺栓的最低性能等级为8.8级，有水平垫板并进行防腐处理。
- ★样本中的附图只属范例，并不要求严格一致，所注尺寸可能有所变动。有关参数可能改进。
- ★所注重量仅为平均值，不要求严格一致。

有关符号说明如下：



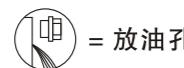
=油标



=通气孔



=加油孔

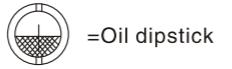


=放油孔

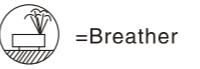
Requirement and Specification

- ★For selection of suitable P series planetary gear units please observe the details given in this brochure.
- ★The gear units supplied can be mounted directly .But the oil is not supplied.
- ★Oil quantities given are guide values only, the exact Quantity of oil depends on the marks on the oil dipstick.
- ★The gear units are supplied with dip lubrication without requirement,if required forced lubrication please refer to us.
- ★For all sizes of B521、B351and above size 21 of B511, a motor pump is required for lubrication of the input bearing.
- ★For V100/V300、V110/V310、V120/V320/V130/V330, the oil level must be increased for ensure lubricant supply, it should mount a oil compensating tank. The oil compensating tank can be mounted on the gear units or the user's driven machine,please refer to us for choice.
- ★Where ambient temperatures are lower than 0°C, the oil must be pre-heated above 0°C. Where ambient temperatures are higher than 40°C, the heat insulation and cooling should be considered. Environmental conditions such as salt water,salt-laden air,aggressive substances, dust,mud,falling or flying stones,excessive pressure,heavy vibrations and extreme shock loads must be disclosed.
- ★Shrink disk is supplied for the gear units of hollow output shaft for shrink disk,but not supply the guard .To prevent accidents,all rotating parts should be guarded according to safety regulations.
- ★Foundation bolts of min. Property class 8.8,it has levelling pads and treated with anti-corrosion.
- ★The attached picture is only example,not strictly binding, the noted dimension may be changed. Some parameters referring to may be improved.
- ★The noted weights are only mean values,not strictly binding.

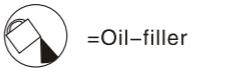
The signs specification is as following:



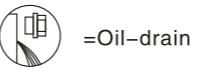
=Oil dipstick



=Breather



=Oil-filler



=Oil-drain

选 型 指 南

减速器的承载能力受机械强度和热平衡许用功率两方面的限制，选用减速器时必须通过这两项功率核算。

1) 计 算 传 动 比

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

式 中 :

 i_s —要求的传动比 n_1 —输入转速 (r/min) n_2 —输出转速 (r/min)

2) 确定减速器的额定功率，应满足：

$$P_N \geq P_2 \times f_1 \times f_2 \times f_3 \times f_4$$

式 中 :

 P_N —减速器额定功率 (见额定功率表) P_2 —载荷功率 (即工作机所需功率) f_1 —工作机系数 (见表1) f_2 —原动机系数 (见表2) f_3 —减速器安全系数 (见表3) f_4 —启动系数 (见表4)

3) 校核最大扭矩，如峰值工作扭矩，起动扭矩或制动扭矩应满足要求：

$$P_N \geq \frac{T_A \times n_1}{9550} \times f_5$$

式 中 :

 T_A —输入轴最大扭矩，如峰值工作扭矩、起动扭矩、制动扭矩 (N.m) f_5 —峰值扭矩系数 (见表 5)

4) 检查输出轴上是否允许有附加载荷，许用附加径向力见27~28页。

5) 检查实际传动比*i*是否满足要求，实际传动比见22~24页。

6) 校核热平衡功率

减速器不带辅助冷却装置，应满足：

$$P_2 \leq P_G = P_{G1} \times f_6 \times f_8$$

式 中 :

 P_G —减速器热功率 P_{G1} —无辅助冷却装置时的热功率 (见热功率表) f_6 —环境温度系数 (见表6) f_8 —功率利用率系数 (见表8)

注：减速器服务系数见43~47页

Guidelines for the Selection

The loading capacity of gear units is restricted by the permissible powers of mechanical tension and the thermal balance, it should meet the following powers in selecting:

1) Calculate the transmission ratio:

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

 i_s —the required transmission ratio n_1 —the input speed (r/min) n_2 —the output speed (r/min)

2) Determine the nominal power ratings of gear units:

$$P_N \geq P_2 \times f_1 \times f_2 \times f_3 \times f_4$$

P_N —the nominal power ratings of gear units (see nominal power ratings table)

P_2 —loading power(the required power of driven machine)

 f_1 —factor of driven machine(see table 1) f_2 —factor for prime mover(see table2) f_3 —safety factor for gear units(see table 3) f_4 —starting factor(see table 4)

3) Check the max. torque, the peak operating-, starting-or brading torque should meet the following requirement:

$$P_N \geq \frac{T_A \times n_1}{9550} \times f_5$$

T_A —the max. torque of input shaft,such as peak operating-,starting-or braking torque,

 f_5 —peak torque factor(see table 5)

4) Check whether it permits the additional force of output shaft,for the permissible additional radial force see pages 27~28

5) Check whether the actual transmission ratio meets the requirement,the actual transmission ratio see pages 22~24

6) Check the power of thermal balance
a.the gear units without auxiliary cooling, should meet:

$$P_2 \leq P_G = P_{G1} \times f_6 \times f_8$$

P_G —the thermal capacities of gear units
 P_{G1} —the thermal capacities without auxiliary cooling(see thermal capacities table)

 f_6 —factor for ambient temperature (see table 6) f_8 —utilization factor(see table 8)

Note: Gear units service factor see 43~47 page

型号P2N... / 规格 9...36 /Type P2N... / Sizes9...36

额定功率 P_N			Nominal power ratings (kW)																										
i_N	n_1 r/min	n_2 r/min	规格 Sizes																										
			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
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	规格 Sizes																						
	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) 狹小空间 Small confined spaces	21	26	32	42	49	65	75	92	100	119	142	174	201	242	287	326	366	437					
2) 室内大厅 Large halls, workshops	29	37	45	60	69	92	106	130	147	169	201	246	285	343	406	462	519	619					
3) 室外 In the open	39	50	60	80	93	125	143	175	191	228	272	333	386	464	550	626	702	838					

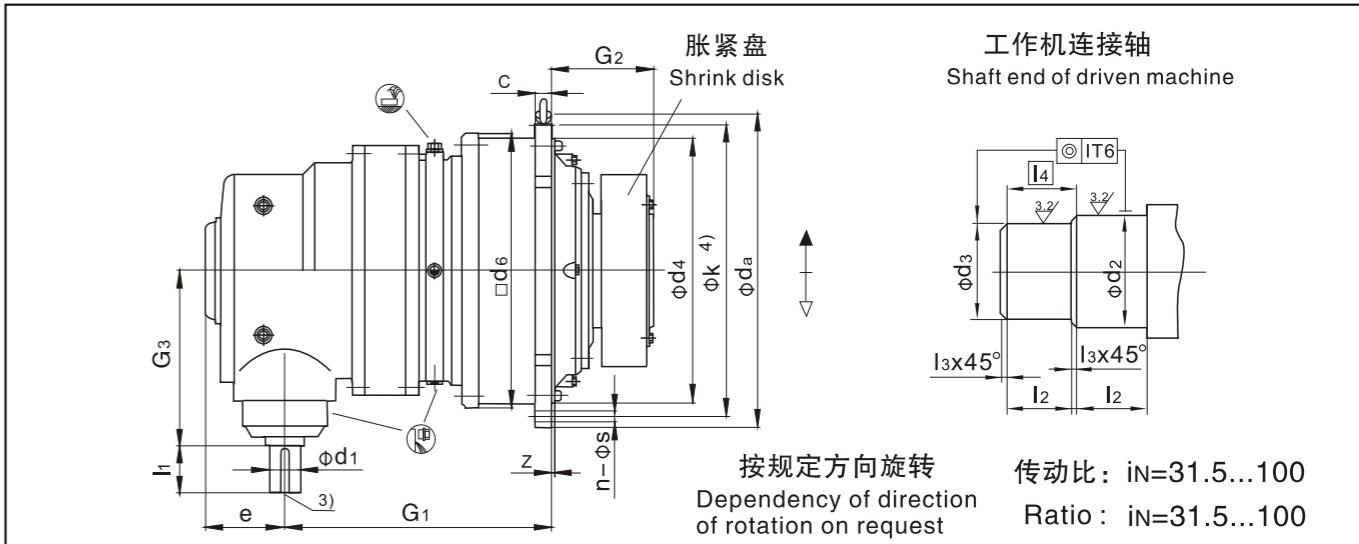
★) 用于水平安装形式，其它安装形式请与我们联系。

★) Values apply to horizontal mounting position, for other mounting positions

please refer to us.

1) Wind velocity $\geq 0.5 \text{m/s}$ 2) Wind velocity $\geq 1.4 \text{m/s}$ 3) Wind velocity $\geq 3.7 \text{m/s}$

型号 P2LAZ / 规格 9...36 / Type P2LAZ / Sizes 9...36



型号 P2L.. / 规格 9...36 / Type P2L.. / Sizes 9... 36

IN	额定功率 PN		Nominal power ratings (kW)																										
	n1 r/min	n2 r/min	规格 Sizes																										
			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*	1724*	1989*	2298*	2564*	2863*	2937*								
	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*	1530*	1712*	2040*	2275*	2540*	2833*								
	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*	781	937	1037*	1191*	1358*	1567*	1810*	2019*	2255*	2514*				
	1000	25.0	58	82	111	159	204	288	423	535	646	821	941	1044	1481	1018	1175	1358	1514	1691	1885								
	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*	2140*	2235*	2304*	2394*	2474*	2564*	2654*	2744*				
	1000	22.2	52	73	99	141	195	275	376	475	574	694	833	922*	1059*	1207*	1393*	1609*	1795*	1804*	2011*	2081*	2171						
	750	16.7	39	55	74	106	146	206	282	356	430	520	625	692	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*	2011*	2140*	2235*	2324*	2414*	2504*	2594*	2684*	2774*			
	1000	20.0	47	66	89	127	176	248	339	428	517	625	749	830	953	1086	1253	1448*	1615*	1804*	1983*	2011*	2100*	2189*	2278*	2367*			
	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*	1795*	1994*	2004*	2268*	2354*	2444*	2534*	2624*	2714*	2804*		
	1000	17.9	42	59	79	113	157	221	302	382	461	558	669	741	851	970	1119	1293*	1442*	1610*	1796*	1804*	1994*	2004*	2194*	2284*	2374*		
	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*	2524*	2654*	2784*	2874*	2964*	3054*		
	1000	15.9	37	52	71	101	139	197	269	339	410	496	595	659	756	862	995	1149	1282	1432	1596	1781*	1966*	2016*	2106*	2196*	2286*	2376*	
	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	2343	2563	2783	2903	3123	3343	3563	3783
	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	1342							
80	1500	18.8	44	62	83	119	165	232	318	401	484	585	703	778	893	1018	1175	1358	1514	1691	1885	2074*	2264*	2454*	2644*	2834*	3024*	3214*	3404*
	1000	12.5	29	41	56	79	110	155	212	267	323	390	468	519	595	679	783	905	1010	1127	1257	1403*	1588*						
	750	9.4	22	31	42	60	82	116	159	200	242	293	351	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	2317*	2517*	2717*	2917*	3117*	3317*
	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																										

型号 P2S.. / 规格 9...36 / Type P2S.. / Sizes 9...36

额定功率 PN			Nominal power ratings (kW)																										
iN	n1 r/min	n2	规格 Sizes																										
			9	10	11	12	13	14	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						
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	883	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																						

型号P2K.. / 规格9...20 / Type P2K.. / Sizes9...20

iN	n ₁ r/min	n ₂	额定功率 P _N Nominal power ratings (kW)										
			规格 Sizes										
			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	112	142	171	207	249	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	26	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		

安装类型 Settings	热功 率 P _{G1} *) Thermal capacities P _{G1} *) (kW)									
	规格 Sizes									
	9	10	11	12	13	14	16	17	18	19/20
狭小空间 Small confined spaces	12	15	18	24	28	38	44	53	58	69
室内大厅 大车间 Large halls, workshops	17	22	26	35	40	54	62	76	82	98
室外 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。

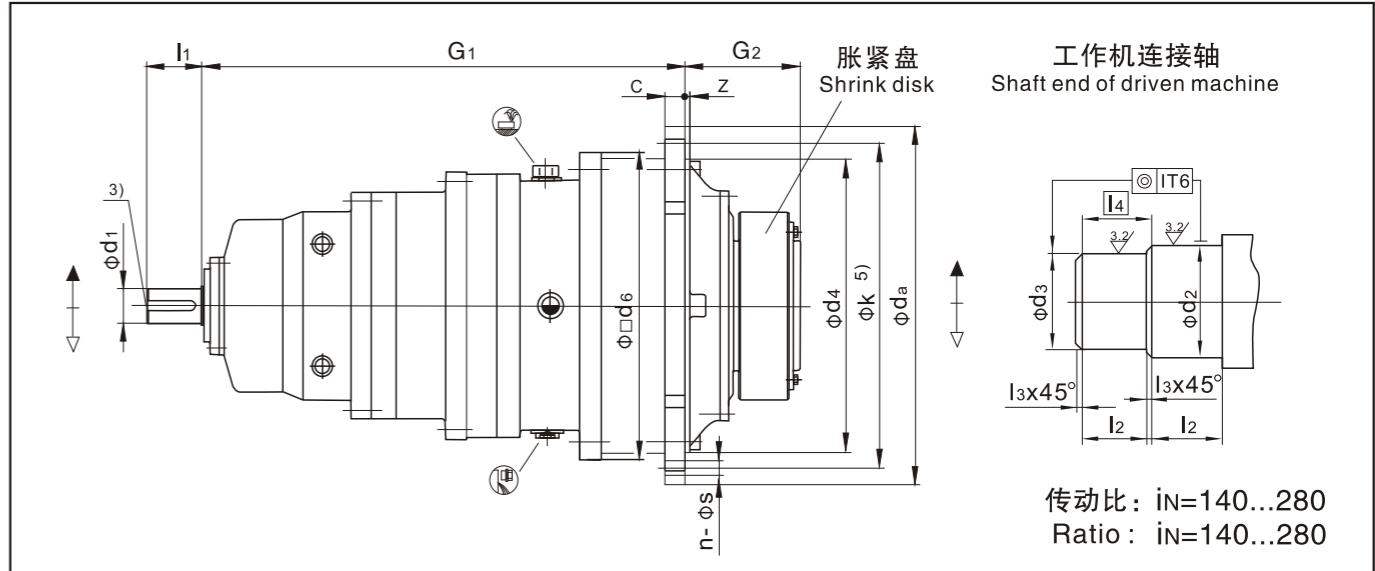
1) 风速≥0.5m/s 2) 风速≥1.4m/s 3) 风速≥3.7m/s

*) Values apply to horizontal mounting position, for other mounting positions please refer to us.

1) Wind velocity≥0.5m/s 2) Wind velocity≥1.4m/s

3) Wind velocity≥3.7m/s

型号P3NAZ / 规格9...36 / Type P3NAZ / Sizes9...36



型號 P3N.. / 規格 9...36 / Type P3N.. / Sizes 9...36

額定功率 P_N			Nominal power ratings (kW)																											
i_N	n_1 r/min	n_2 r/min	規 格 Sizes																											
			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	
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	669	755	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	

熱功 率 P_{G1}^*			Thermal capacities P_{G1}^* (kW)																			
安裝類型 Settings	規 格 Sizes																					
	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) 狹小空間 Small confined spaces	14	18	22	29	34	46	52	64	70	83	99	121	141	169	200	228	256</td					

型号 P3S.. / 规格 9...36 / Type P3N.. / Sizes 9...36

额定功率 PN			Nominal power ratings (kW)																										
in	n1	n2	规格 Sizes																										
	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	
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	536	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	273	304	339	379	422	478	530	598	669	765	893	1036
	1000	2.5	5.8	8.2	11	16	23	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	453	529	614
	750	1.7	3.4	5.5	7.4	11	15	21	28	36	43	52	63	69	80	91	105	121	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	383	424	478	536	612	714	829
	1000	2.0	4.7	6.6	8.9	13	18	25	34	43	52	63	74	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	
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	
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	
800	1500	1.9	4.4	6.2	8.4	12	17																						

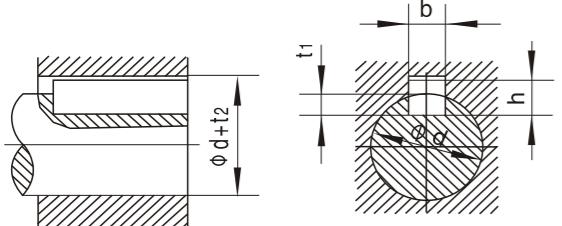
型号 P3K.. / 规格 9...30 / Type P3K.. / Sizes 9...30

IN	n ₁ r/min	n ₂ r/min	额定功率 P _N Nominal power ratings (kW)																					
			规格 Sizes																					
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	
	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	22	26	31	35	40	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	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	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	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	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	4.3	5.3	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	4.3	5.9	8.3	11.4	14	17</td													

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	$\geq 16-21$	$> 21-24$	$> 24-30$	$> 30-38$	$> 38-50$	$> 50-85$	$> 85-130$	$> 130-225$	$> 225-320$	$> 320-500$	$> 500-700$
螺孔尺寸 Screw	M6	M8	M10	M12	M16	M20	M24	M30	M36	M42	M48

平键和键槽 Parallel 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. Parallel 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	$d+19.5$



规 格 Size	实 际 传 动 比 Actual Ratios				
	P2N..	25	28	31.5	35.5
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

规 格 Size	实 际 传 动 比 Actual Ratios									
	P2S..	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	120.31
17	42.318	47.833	55.417	61.438	71.178	78.788	91.278	96.594	111.91	120.31
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		

型号 P3N.., P3S.. / 实际传动比/ Types P3N.., P3S.. / Actual ratios

规 格 Size P3N..	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	240.43	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	204.45	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	204.88	225.98	253.97	291.84
18	142.94	161.57	187.19	218.54	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	215.97	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	218.54	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

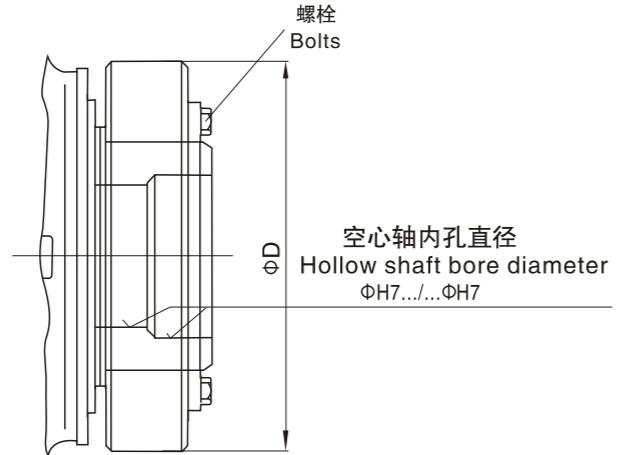
规 格 Size P2S..	实 际 传 动 比 Actual Ratios										
	280	315	355	400	450	500	560	630	710	800	900
9	295.21	333.68	386.58	401.07	464.65	510.01	590.87	645.65	748.01	807.55	935.57
10	295.21	333.68	386.58	401.07	464.65	510.01	590.87	645.65	748.01	807.55	935.57
11	295.82	332.46	382.03	399.60	459.18	508.15	583.92	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	479.81	544.32	630.61	662.65	767.70	822.54	952.94
21/22	302.43	341.84	396.04	414.16	479.81	544.32	630.61	662.65	767.70	822.54	952.94
23/24	295.28	331.86	381.34	426.24	489.80	546.61	628.12	670.15	770.08	829.80	961.35
25/26	295.28	331.86	381.34	426.24	489.80	546.61	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

型号 P2L.., P2K.., P3K.. / 实际传动比/ Types P2L.., P2K .., P3K.. / Actual ratios

规 格 Size P2L..	实 际 传 动 比 Actual Ratios										
	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	36.6933	40.7273	46.0255	52.3636	58.5241	66.4812	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	89.748	

规格 9...36/ 带胀紧盘空心输出轴 / Sizes 9...36 / Hollow Output Shaft for Shrink Disk

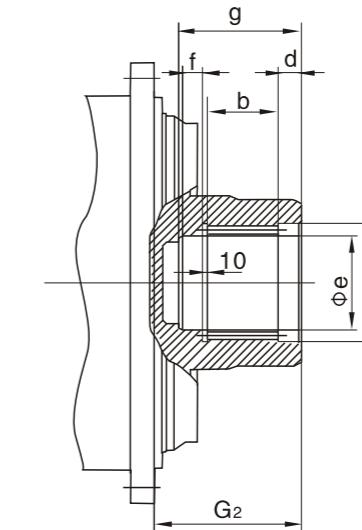
P..AZ



机座号 Size	输出扭矩 Output torque T _{2N} (N.m)	胀紧盘 Shrink disk			
		内径 Size	D	螺栓 Bolts	重量 Weight (kg)
				型号 Size	
9	22000	155	263	M12	15
10	31000	165	290	M16	22
11	42000	185	330	M16	37
12	60000	220	370	M16	54
13	83000	240	405	M20	67
14	117000	280	460	M20	102
16	160000	300	485	M20	118
17	202000	320	520	M20	131
18	244000	340	570	M20	186
19	295000	360	590	M20	204
20	354000	380	650	M24	250
21	392000	390	650	M24	250
22	450000	420	670	M24	300
23	513000	440	740	M24	400
24	592000	460	770	M24	420
25	684000	480	800	M24	500
26	763000	500	850	M27	570
27	852000	530	910	M27	740
28	950000	560	940	M27	770
29	1060000	560	940	M27	770
30	1200000	590	980	M27	900
31	1330000	590	980	M27	900
32	1500000	620	1020	M30	1080
33	1680000	660	1070	M30	1178
34	1920000	700	1140	M33	1345
35	2240000	750	1150	M33	1346
36	2600000	800	1230	M33	1646

规格 9...30/ 渐开线花键空心输出轴 / Sizes 9...30 / Hollow Output Shaft with Involute Splines

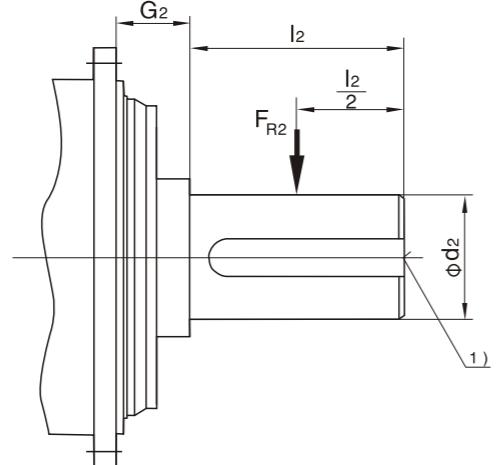
P..AH



机座号 Size	输出扭矩 Output torque T _{2N} (N.m)	渐开线花键空心输出轴 Hollow output shaft with involute splines								
		内花键规格 Involute splines acc.to		b	c H7	d	e H7	f	G2	
		DIN 5480	GB/T3478.1							
9	22000	120 x 5 x 30 x 22 x 9H	22z x 5m x 30p x 6h	70	122	40	105	20	165	150
10	31000	130 x 5 x 30 x 24 x 9H	24z x 5m x 30p x 6h	80	132	40	115	20	174	160
11	42000	140 x 5 x 30 x 26 x 9H	26z x 5m x 30p x 6h	90	142	45	125	25	204	180
12	60000	160 x 5 x 30 x 30 x 9H	30z x 5m x 30p x 6h	100	162	45	145	25	223	190
13	83000	180 x 5 x 30 x 34 x 9H	34z x 5m x 30p x 6h	110	182	45	165	25	237	200
14	117000	210 x 5 x 30 x 40 x 9H	40z x 5m x 30p x 6h	125	212	45	195	25	264	215
16	160000	240 x 8 x 30 x 28 x 9H	28z x 8m x 30p x 6h	140	242	50	215	25	285	235
17	202000	250 x 8 x 30 x 30 x 9H	30z x 8m x 30p x 6h	150	255	50	230	30	290	250
18	244000	260 x 8 x 30 x 31 x 9H	31z x 8m x 30p x 6h	160	262	50	240	30	303	260
19	295000	280 x 8 x 30 x 34 x 9H	33z x 8m x 30p x 6h	170	282	50	255	30	327.5	270
20	354000	300 x 8 x 30 x 36 x 9H	36z x 8m x 30p x 6h	180	302	50	280	30	327.5	280
21	392000	310 x 8 x 30 x 37 x 9H	37z x 8m x 30p x 6h	190	312	60	285	40	354	310
22	450000	330 x 8 x 30 x 40 x 9H	40z x 8m x 30p x 6h	200	335	60	310	40	354	320
23	513000	340 x 8 x 30 x 41 x 9H	41z x 8m x 30p x 6h	200	342	60	320	40	348	320
24	592000	360 x 8 x 30 x 44 x 9H	43z x 8m x 30p x 6h	220	362	60	335	40	368	340
25	684000	380 x 8 x 30 x 46 x 9H	46z x 8m x 30p x 6h	230	382	60	360	40	372	350
26	763000	400 x 8 x 30 x 48 x 9H	48z x 8m x 30p x 6h	240	402	60	375	40	382	360
27~30		根据用户要求供货								

规格 9...36/ 带平键实心输出轴 / Sizes 9...36 / Solid Output Shaft with Parallel Key

P..BS

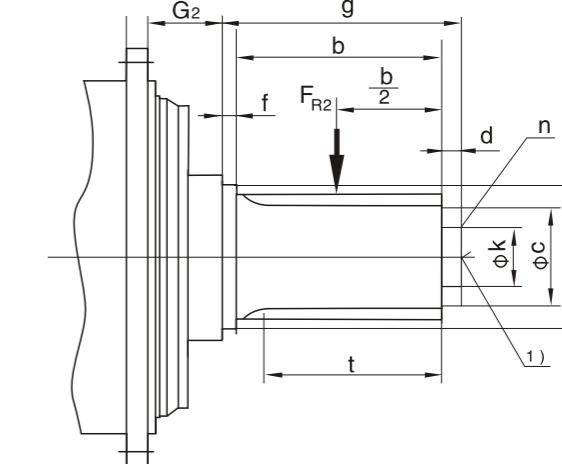


机座号 Size	输出扭矩 Output torque T _{2N} (N.m)	实心轴 Solid shaft			
		d ₂ n ₆	l ₂	G ₂	F _{R2}
9	22000	120	210	95	
10	31000	130	210	95	
11	42000	150	240	109	
12	60000	160	270	106	
13	83000	180	310	118	
14	117000	210	350	139	
16	160000	230	350	142	
17	202000	250	400	139	
18	244000	260	400	134	
19	295000	280	450	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	1680000	530	900	251	
34	1920000	570	950	251	
35	2240000	600	1000	267	
36	2600000	640	1000	267	

请咨询
Please consult us

规格 9....30/ 渐开线花键实心输出轴 / Sizes 9..30 / Solid Output Shaft with Involute Splines

P..BH

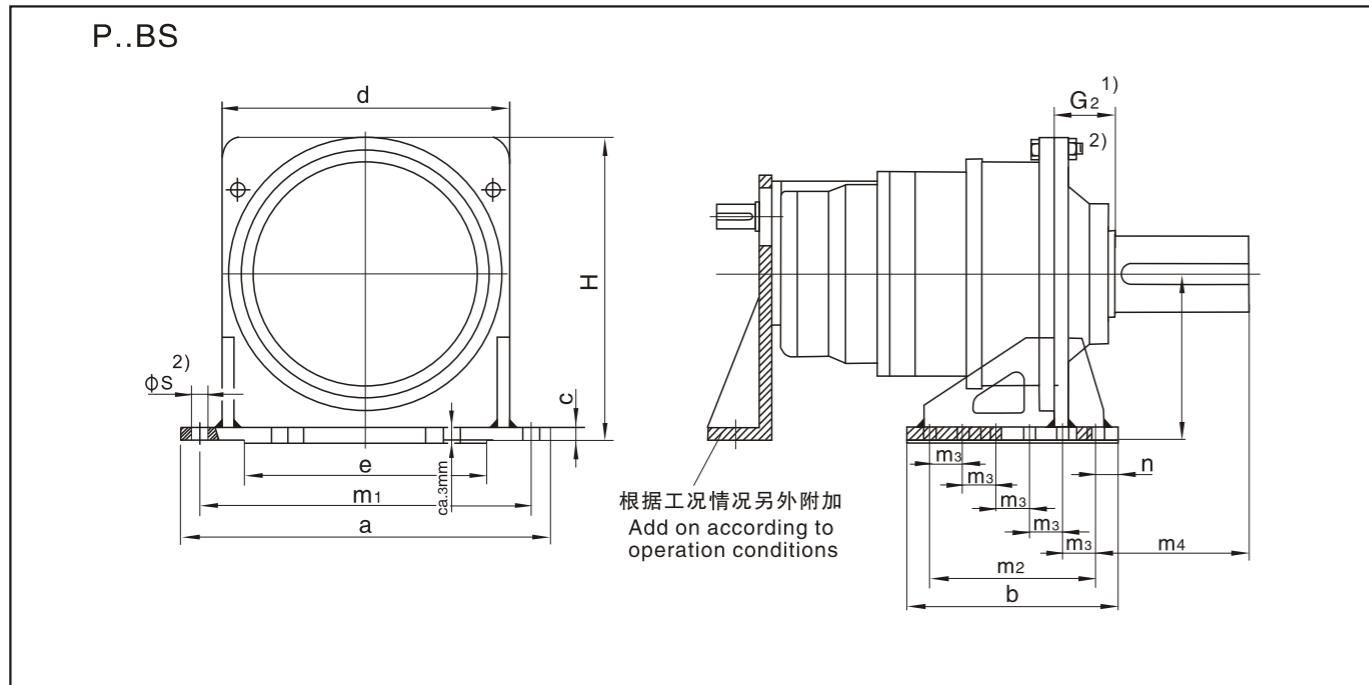


机座号 Size	输出扭矩 Output torque T _{2N} (N.m)	渐开线花键空心输出轴 Solid output shaft with involute splines											
		外花键规格 Involute splines acc.to											
		DIN 5480	GB/T3478.1	t	b	c k ₆	d	e k ₆	f	g	k	n	G ₂	F_{R2}
9	22000	130 x 5 x 30 x 24 x 8m	25z x 5m x 30p x 5h	70	80	110	20	132	20	120	80	3 x M16 x 24	95
10	31000	140 x 5 x 30 x 26 x 8m	27z x 5m x 30p x 5h	80	90	120	20	142	20	130	90	3 x M16 x 24	95
11	42000	160 x 5 x 30 x 30 x 8m	31z x 5m x 30p x 5h	90	100	140	25	162	25	150	110	3 x M16 x 24	109
12	60000	180 x 5 x 30 x 34 x 8m	35z x 5m x 30p x 5h	100	110	90	25	182	25	160	130	3 x M16 x 24	106
13	83000	200 x 5 x 30 x 38 x 8m	39z x 5m x 30p x 5h	110	120	100	30	202	25	175	140	3 x M16 x 24	118
14	117000	220 x 5 x 30 x 42 x 8m	43z x 5m x 30p x 5h	125	135	120	30	222	30	195	160	3 x M16 x 24	139
16	160000	250 x 8 x 30 x 30 x 8m	30z x 8m x 30p x 5h	140	155	140	35	252	30	220	185	3 x M20 x 30	142
17	202000	260 x 8 x 30 x 31 x 8m	31z x 8m x 30p x 5h	150	165	155	40	262	35	240	200	3 x M20 x 30	139
18	244000	280 x 8 x 30 x 34 x 8m	34z x 8m x 30p x 5h	160	175	170	40	282	35	250	215	3 x M20 x 30	134
19	295000	300 x 8 x 30 x 36 x 8m	36z x 8m x 30p x 5h	170	185	180	40	302	35	260	225	3 x M20 x 30	148.5
20	354000	310 x 8 x 30 x 37 x 8m	37z x 8m x 30p x 5h	180	195	190	40	312	35	270	235	6 x M20 x 30	148.5
21	392000	320 x 8 x 30 x 38 x 8m	39z x 8m x 30p x 5h	190	205	200	40	322	35	280	250	6 x M20 x 30	158
22	450000	340 x 8 x 30 x 41 x 8m	41z x 8m x 30p x 5h	200	215	210	40	342	35	290	265	6 x M20 x 30	158
23	513000	360 x 8 x 30 x 44 x 8m	44z x 8m x 30p x 5h	200	215	230	40	362	35	290	275	6 x M20 x 30	175
24	592000	380 x 8 x 30 x 46 x 8m	46z x 8m x 30p x 5h	220	235	245	40	382	35	310	290	6 x M20 x 30	175
25	684000	400 x 8 x 30 x 48 x 8m	49z x 8m x 30p x 5h	230	245	260	40	402	35	320	310	6 x M24 x 36	182
26	763000	420 x 8 x 30 x 51 x 8m	51z x 8m x 30p x 5h	240	255	280	40	422	35	330	330	6 x M24 x 36	182
27-30													根据用户要求供货

1) 有关平键 (符合GB/T1095-1979) 与中心孔请参照 21 页 1) For parallel key (GB/T1095-1979) and centre hole see page 21

1) 有关平键 (符合GB/T1095-1979) 与中心孔请参照 21 页; 1) For parallel key (GB/T1095-1979) and centre hole see page 21

附 件 / Add-on Piece
減速器底座 / Gear Housing Base



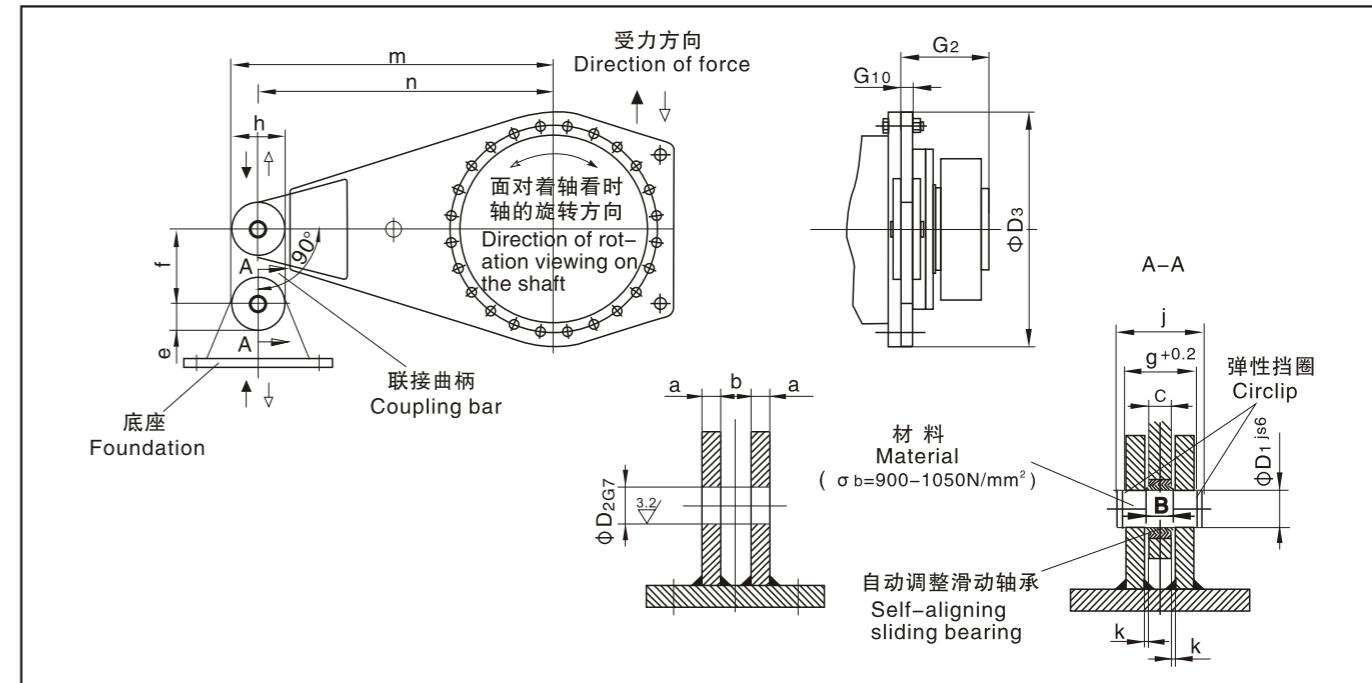
尺 寸 Dimensions															重量 Weight
机座号 Size	a	b	c	d	e	h	H	m ₁	m ₂	m ₃	m ₄	n	螺栓孔 Foundation bolt		重量 Weight
													s	数量 Qty.	
9	580	330	20	450	380	260	480	520	260	130	240	35	26	2 x 3	56
10	630	360	25	500	430	280	525	570	290	145	240	35	26	2 x 3	82
11	680	400	30	550	480	315	585	620	330	110	274	35	26	2 x 4	122
12	760	450	30	630	560	360	670	700	380	95	292	35	26	2 x 5	157
13	820	490	35	680	610	390	720	750	420	105	334	35	26	2 x 5	213
14	920	560	35	760	680	430	800	840	480	120	380	40	33	2 x 5	270
16	980	580	40	820	700	470	865	900	500	125	374	40	33	2 x 5	350
17	1130	670	45	940	810	540	998	1040	580	145	405	45	39	2 x 5	520
18	1180	720	45	980	830	560	1035	1080	620	155	385	50	39	2 x 5	580
19	1260	760	50	1050	880	590	1090	1160	640	160	450	60	45	2 x 5	720
20	1260	760	50	1050	880	590	1090	1160	640	160	500	60	45	2 x 5	720
21	1440	840	55	1170	1020	660	1228	1320	700	175	513	70	52	2 x 5	940
22	1440	840	55	1170	1020	660	1228	1320	700	175	513	70	52	2 x 5	940
23	1540	910	60	1270	1100	730	1345	1420	750	150	567	80	52	2 x 6	1275
24	1540	910	60	1270	1100	730	1345	1420	750	150	607	80	52	2 x 6	1275
25	1700	1000	65	1400	1240	795	1465	1550	860	215	574	70	62	2 x 5	1670
26	1700	1000	65	1400	1240	795	1465	1550	860	215	634	70	62	2 x 5	1670
27	1850	1100	70	1550	1370	870	1610	1700	950	190	664	75	62	2 x 6	2170
28	1850	1100	70	1550	1370	870	1610	1700	950	190	724	75	62	2 x 6	2170
29	1980	1180	75	1640	1460	925	1715	1820	1000	250	731	90	70	2 x 5	2650
30	1980	1180	75	1640	1460	925	1715	1820	1000	250	771	90	70	2 x 5	2650
31	2150	1300	75	1750	1570	1000	1845	1950	1100	220	773	100	70	2 x 6	3100
32	2150	1300	75	1750	1570	1000	1845	1950	1100	220	833	100	70	2 x 6	3100
33	2230	1350	85	1850	1630	1050	1940	2050	1150	230	883	100	78	2 x 6	3850
34	2230	1350	85	1850	1630	1050	1940	2050	1150	230	933	100	78	2 x 6	3850

35+36 根据用户要求供货 On request

1) 输出轴的尺寸, 见 27 页
2) 见 33 页

1) For output shaft dimensions, see page 27
2) See page 33

附 件 / Add-on Piece 75
单侧扭矩支撑臂 / Torque Reaction Arm on One Side

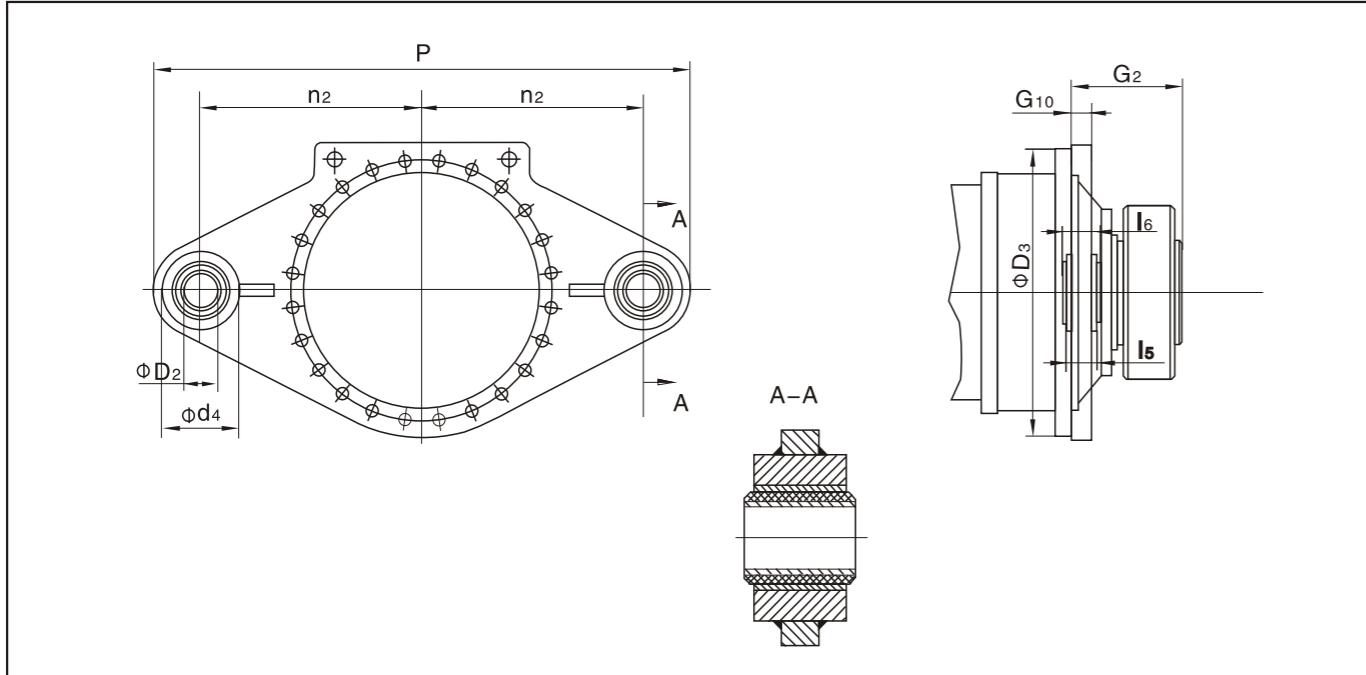


机座号 Size	输出扭矩 Output torque T _{2N} (N.m)	D ₁		D ₂		G ₂	G ₁₀	a min	b 1)	B 2)	c	e	f	g +0.2	h	j	间隙 Clearance k	m	n	滑动 轴承 内径 Sliding bearing Inner diameter	重量 Weight
		D ₁	D ₂	D ₁	D ₂																
9	22000	30	440	165	25	15	25	22	18	50	140	59.5	100	70	3.5	605	555	30	38		
10	31000	35	485	174	30	15	30	25	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</td																					

TAIXING 臺星傳動

附 件 / Add-on Piece 76

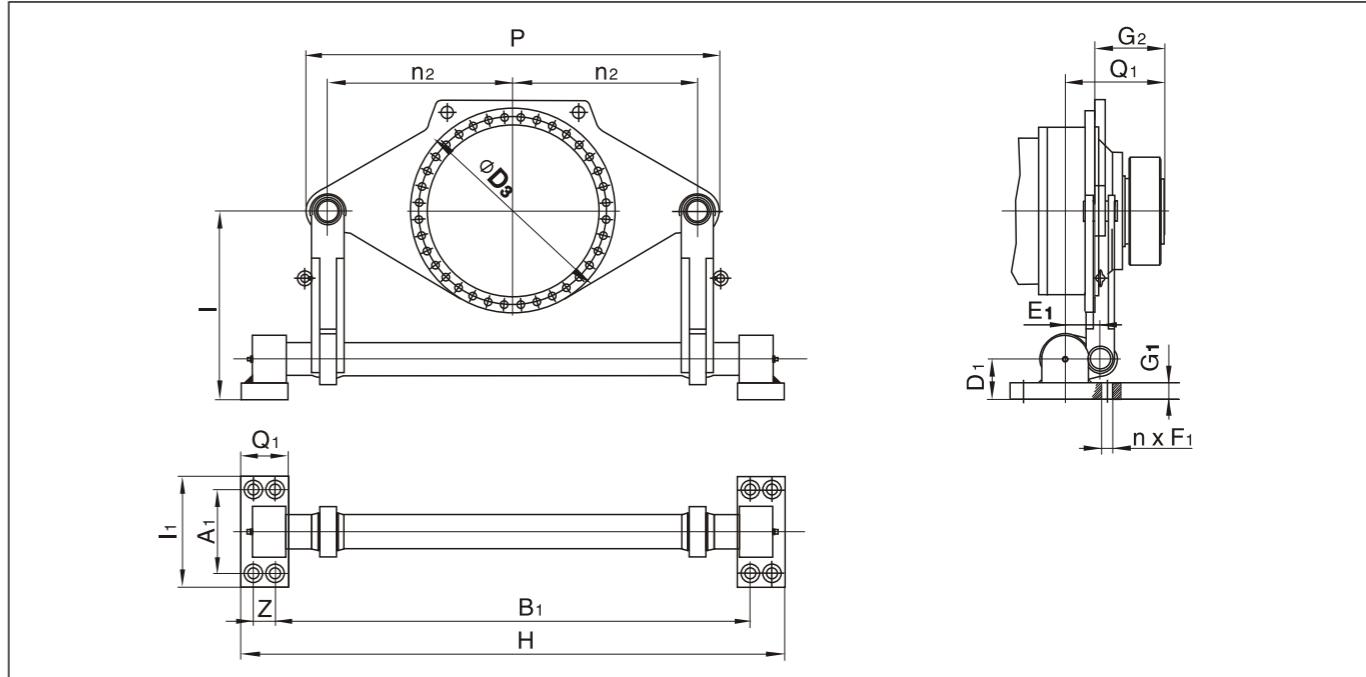
带橡胶衬套的两侧扭矩支撑臂 / Torque Reaction Arm on Two Sides with Rubber Bushes



机座号 Size	输出扭矩 Output torque T _{2N} (N.m)	*) D ₂ H9	D ₃	d ₄	G ₂	G ₁₀	I ₅	I ₆	n ₂	P	重量 Weight
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

*) 鎖軸: $\Phi h8$

附 件 / Add-on Piece 76
附 件 / Add-on Piece 77
扭力轴支撑架 / Torsion Shaft Support



机座号 Size	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
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

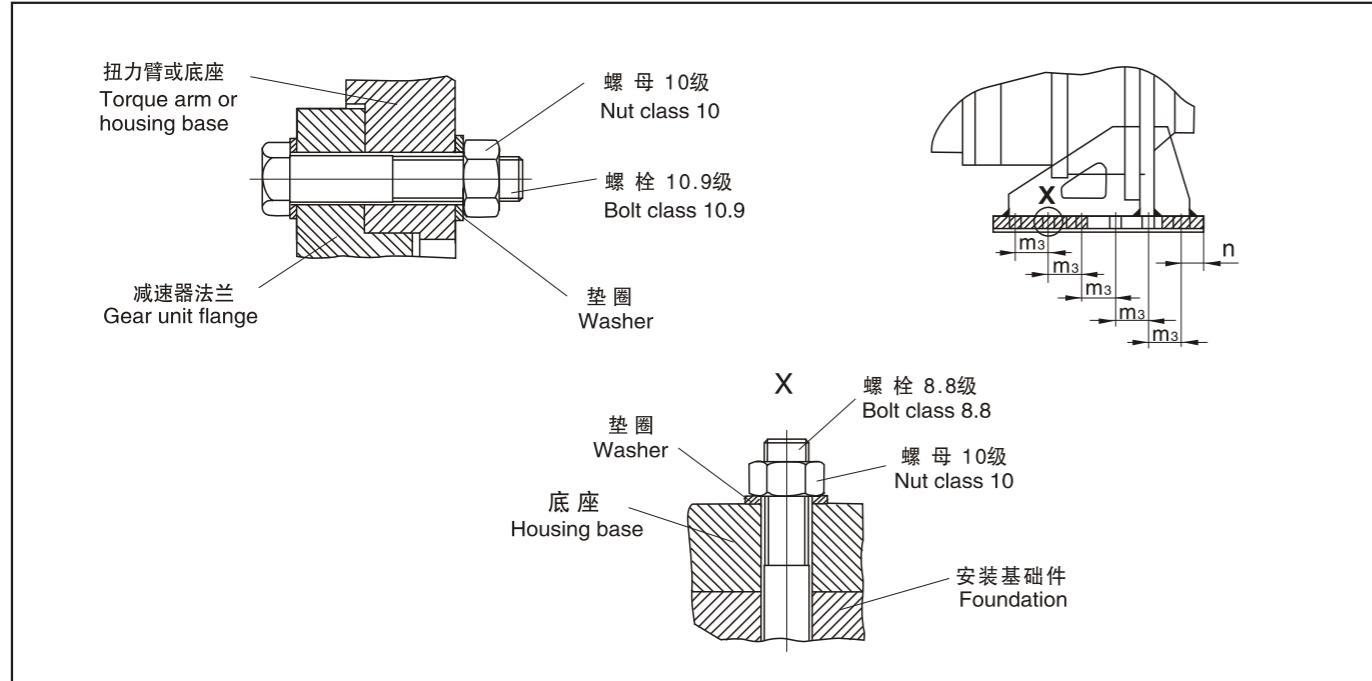
1) 标准尺寸，整体高度可修正到2000mm

2) 锁紧用螺栓强度不得低于6.8级

1) Standard dimension, overall height modifiable up to 2000 mm

2) The bolts used for lock are not lower than class 6.8

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

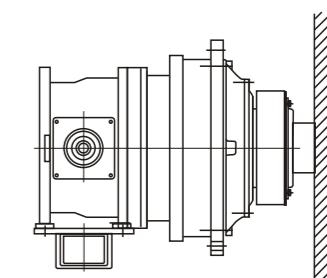
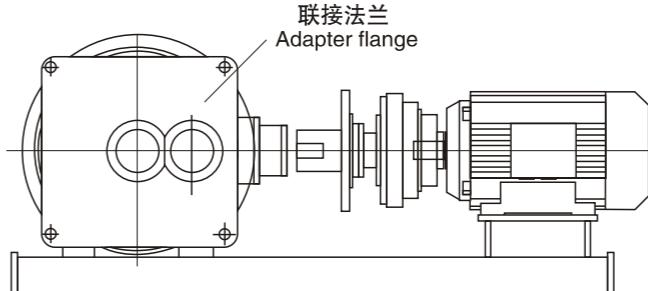


机座号 Size	法兰联接 Flange attachment		底座联接 Base attachment	
	螺栓 Thread (10.9)	预紧扭矩 (N.m) Tightening torque	螺栓 Thread (8.8)	预紧扭矩 (N.m) Tightening torque
9	M16	295	M24	710
10	M16	295	M24	710
11	M20	580	M24	710
12	M24	1000	M24	710
13	M24	1000	M24	710
14	M24	1000	M30	1450
16	M24	1000	M30	1450
17	M30	2000	M36	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	13580	M64	14300
33/34	M56	13580	M64	14300
35/36	M56	13580	M72 x 6	20800

电机安装支架 / Motor Bracket

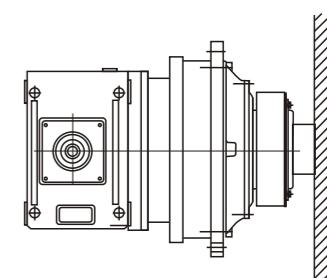
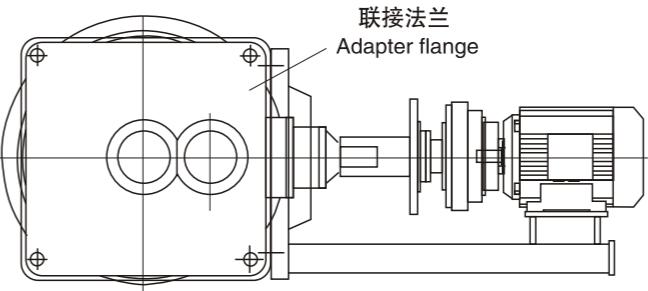
电机安装支架(附件代号-71)

Motor bracket (code of add-on piece-71)



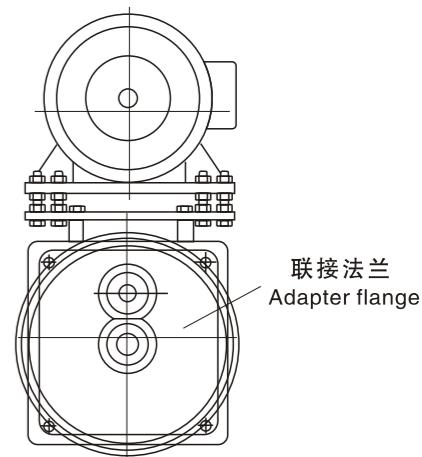
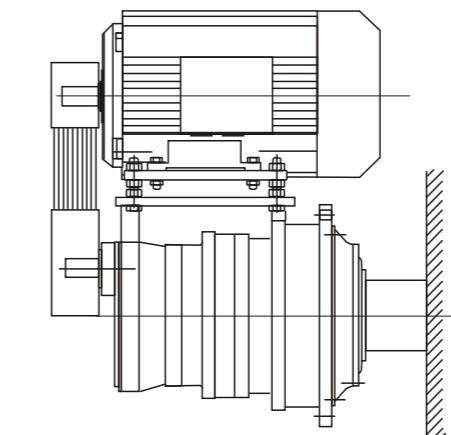
电机安装支架(附件代号-71)

Motor bracket (code of add-on piece-71)



电机安装支架(附件代号-72)

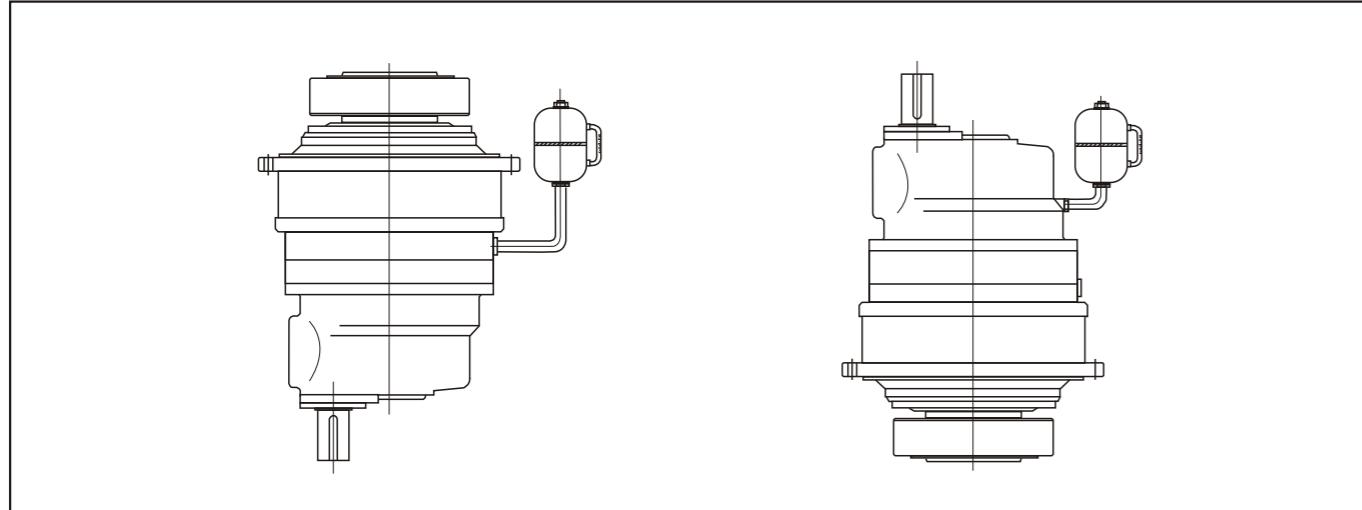
Motor bracket (code of add-on piece-72)



如果不采用钟表电机支座，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.

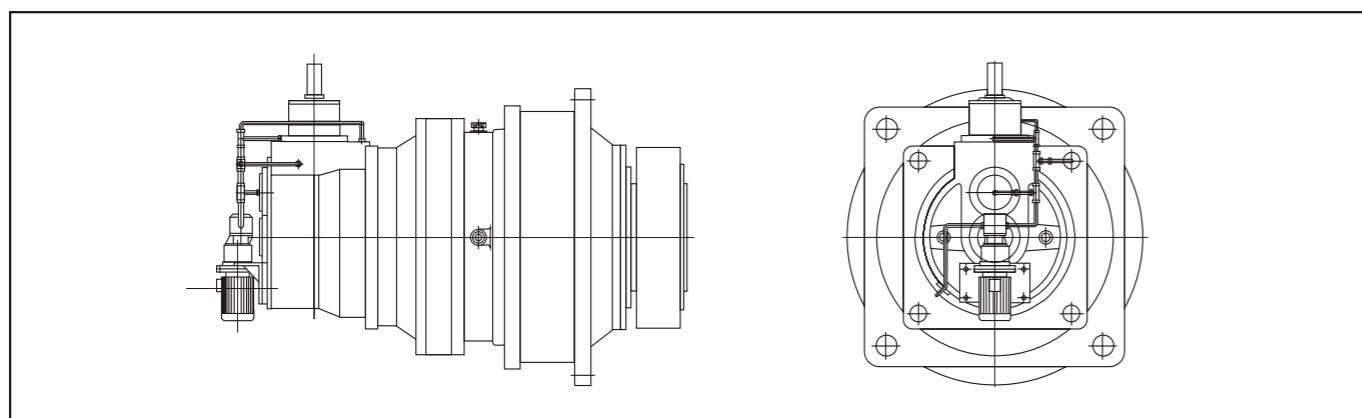
立式安装补偿油箱 / Oil Compensating Tank for Vertical Mounting Position



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,油位通过加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。

PS、PK、PL当安装布置方位为B511、B521、B531的卧式安装时需配备电动油泵强制润滑,如下图:



In case of vertical mounting position,to ensure the lubrication of the upper bearing,the oil level is increased accordingly,the oil level is increased and checked 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.

For PS、PK、PL,in case of mounting positions B511、B521、B631 horizontal, it needs to mount the motor pumps for forced lubrication. Shown in the following drawings.

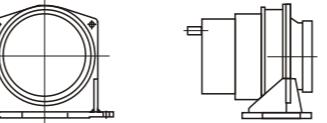
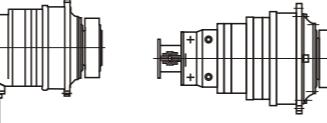
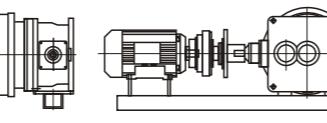
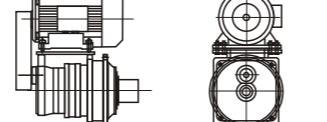
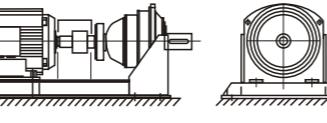
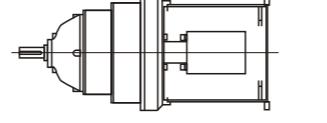
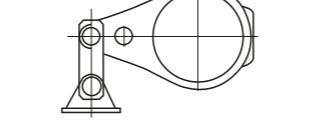
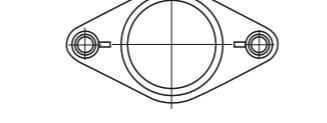
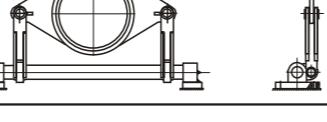
安装布置形式 / Mounting Position

水平安装 Horizontal gear unit position			立式安装 ¹⁾ Vertical gear unit position	
同轴式 行星减速器 Coaxial planetary gear units	0 P.N.			
		B500	V100	V300
斜齿轮- 行星减速器 Combined helical gear planetary gear units	1 P.S.			
		B511	V110	V310
		B512	V110	V310
		B513	V110	V310
		B514	V110	V310
锥齿轮-斜齿轮- 行星减速器 Combined bevel gear planetary gear units	2 P.K.			
		B521	V120	V320
		B522	V120	V320
		B523	V120	V320
		B524	V120	V320
锥齿轮- 行星减速器 Combined bevel-helical gear planetary gear units	3 P.L.			
		B531	V130	V330
		B532	V130	V330
		B533	V130	V330
		B534	V130	V330
扭矩支撑臂 Torque reaction arm	5			
		B551	V130	V330
		B552	V130	V330
		B553	V130	V330
		B554	V130	V330
		B555	V130	V330
		B556	V130	V330

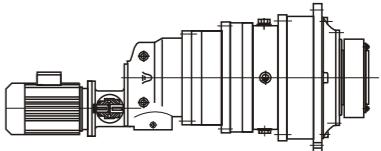
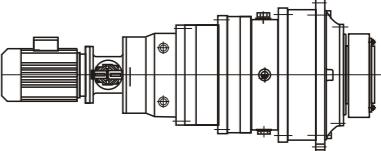
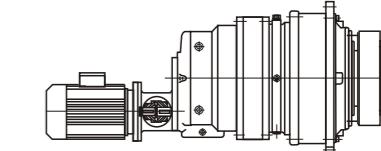
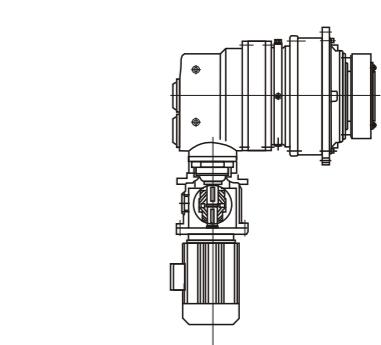
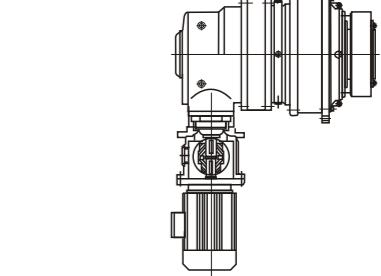
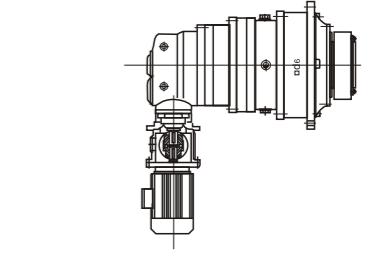
1) 请注意B5*1、V1**、V3** 安装布置形式时润滑方面有特殊要求。

1) Please notice that there are special requirements in lubrication when mounting positions B5*1、V1**、V3**

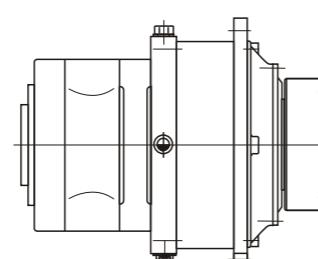
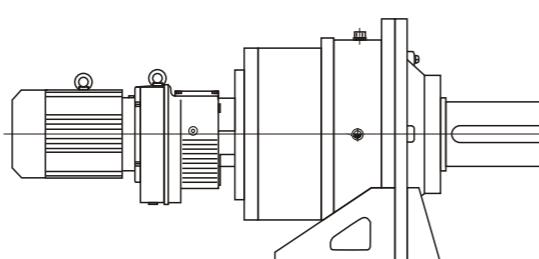
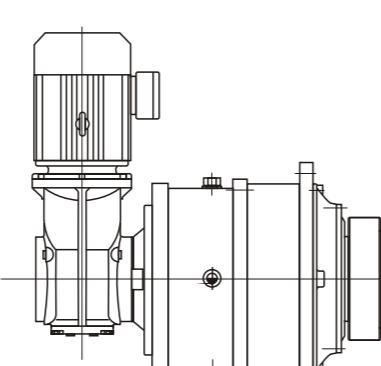
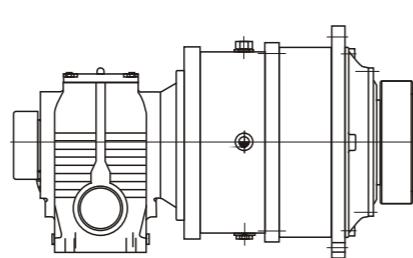
附 件 / Add-on Piece

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 29页 See page 29	
70	电机钟形支座 Motor bell housing	见 38页 See page 38	
71	电机托架 Motor bracket	见 34 页 See page 34	
72	电机支架 Motor bracket	见 34 页 See page 34	
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 side)	见 30 页 See page 30	
76	扭矩支撑臂(二端) Torque reaction arm(on two sides)	见 31 页 See page 31	
77	扭力轴支撑 Torsion shaft support	见 32 页 See page 32	

电机、减速器直联方式 / Connection-directly Mode of Motor and Gear Unit

安装布置形式 Mounting position	类 型 Type	图 示 Representation
水平安装 Horizontal	P2S电机直联 P2S motor connect-directly	
水平安装 Horizontal	P3N电机直联 P3N motor connect-directly	
水平安装 Horizontal	P3S电机直联 P3S motor connect-directly	
水平安装 Horizontal	P2K电机直联 P2K motor connect-directly	
水平安装 Horizontal	P2L电机直联 P2L motor connect-directly	
水平安装 Horizontal	P3K电机直联 P3K motor connect-directly	

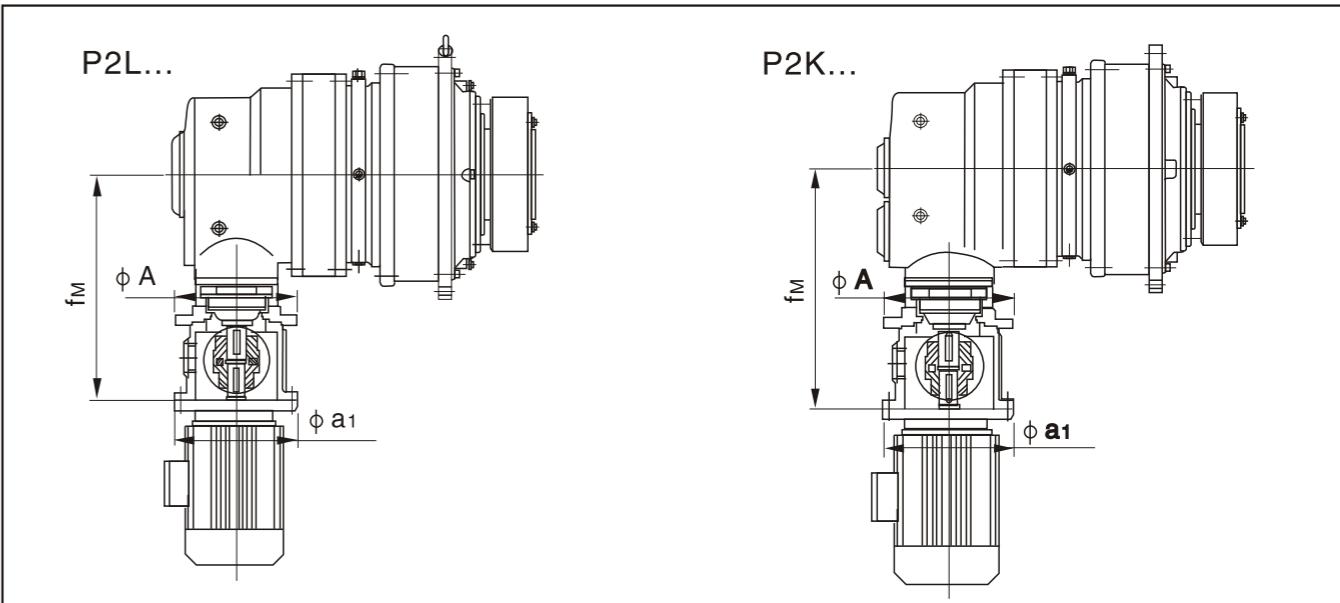
减速器组合例子 / Examples of Combinations

组合形式说明 Identifications of combinations	例 子 Example
单级空心轴行星减速器 带液压马达 Two stages solid shaft planetary gear units with hydraulic motor	
两级空心轴行星减速器 带R斜齿轮减速机、电机和底座 Two stages solid shaft planetary gear units with R helical gear units, motor and housing base	
两级空心轴行星减速器 带K锥齿轮减速机、电机 Two stages hollow shaft planetary gear units with K helical-bevel gear units, motor	
两级空心轴行星减速器 带S蜗轮蜗杆减速机、电机 Two stages hollow shaft planetary gear units with S helical-worm gear units, motor	

详情请与我们联系

Please refer to us for the details

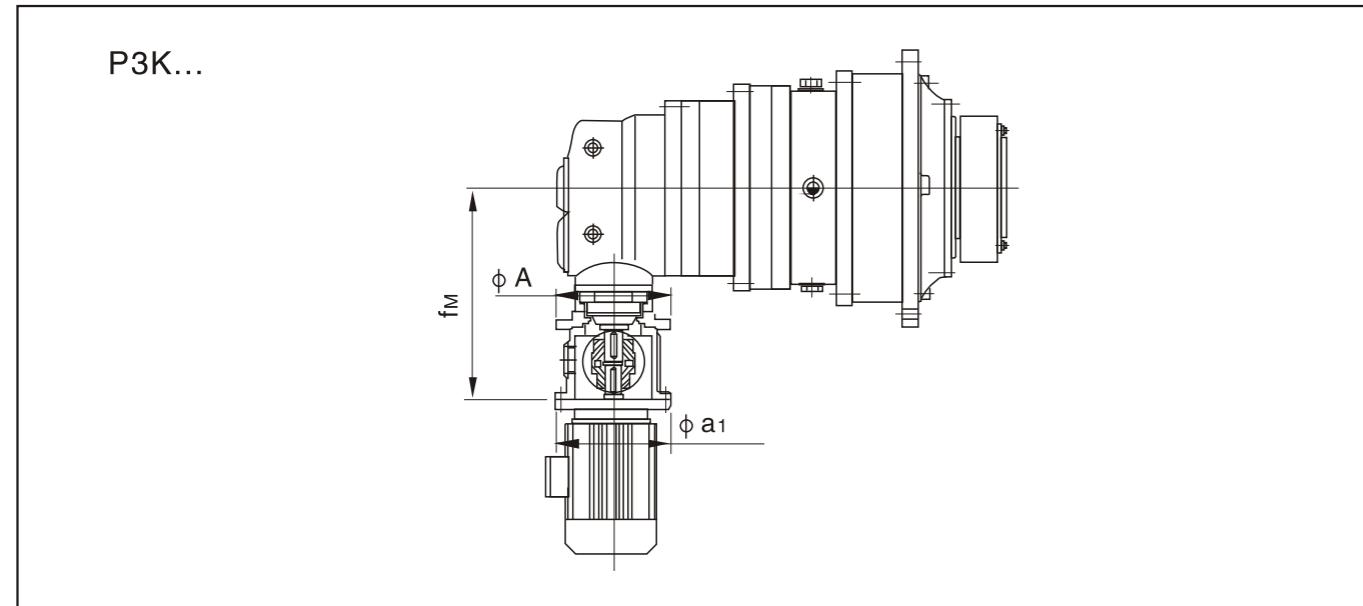
P2L..., P2K...直联电机/ P2L..., P2K...motor connect-directly



电机功率 Motor Power	规格 / Size								
	9/10			11/12			13/14		
	f_M	a_1	A	f_M	a_1	A	f_M	a_1	A
11-15kW	548	350	350						
	548	350		603	350	400			
	550	400		605	400		695	400	400
	587	450		642	450		732	450	
				642	550		732	550	
							732	550	
mm									

电机功率 Motor Power	规格 / Size														
	9/10			11/12			13/14			16/17			18/19		
	f_M	a_1	A	f_M	a_1	A	f_M	a_1	A	f_M	a_1	A	f_M	a_1	A
2.2-4kW	468	250	250												
	491	300		556	300										
	533	350		588	350	688	350								
	533	350		588	350	688	350	773	350						
	535	400		590	400	690	400	775	400	895	400	400			
				627	450	727	450	812	450	932	450				
						727	550	812	550	932	550				
						727	550	812	550	932	550				
mm															

P3K...直联电机 / P3K motor connect directly



规格 / Size	电机功率 Motor Power	f_M	a_1	A
		mm		
9-14	2.2-4kW	468	250	250
	5.5-7.5kW	491	300	
	11-15kW	533	350	
	18.5-22kW	533	350	
	30kW	535	400	
16/17	5.5-7.5kW	556	300	350
	11-15kW	588	350	
	18.5-22kW	588	350	
	30kW	590	400	
	37-45kW	627	450	
18-22	11-15kW	688	350	400
	18.5-22kW	688	350	
	30kW	690	400	
	37.45kW	727	450	
	55kW	727	550	
	75-90kW	727	550	
23-26	18.5-22kW	773	350	420
	30kW	775	400	
	37-45kW	812	450	
	55kW	812	550	
	75-90kW	812	550	
27-30	30kW	895	400	400
	37-45kW	932	450	
	55kW	932	550	
	75-90kW	932	550	

减速器润滑

润滑油种类选择

减速器使用工况	润滑油种类
冶金轧钢、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 mm ² /s(cst)
高速级圆周速度 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℃ (瞬时可达 100℃)
重载荷工业齿轮油 L-CKD	-5℃ 至 +100℃ (瞬时可达 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 mm ² /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 °C in mm ² s(cst)
Rotation velocity of high speed stage v < 2.5m/s, or ambient temperature between 35~50°C	VG320(or VG460)
Rotation velocity of high speed stage v < 2.5m/s, or ambient temperature at 35°C, or lubrication with circulating oil	VG220

Working temperature for dip feed lubrication

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

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

Permissible temperature limit for forced feed lubrication

Viscosity ISO-VG at 40°C in mm ² /s(cst)	Permissible temperature limit for forced feed lubrication/°C	
	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 provided or the oil must be heated.

P系列行星减速机

减速器 服务系数

表1 工作机系数				f_1			
工作机		日工作小时数		工作机	日工作小时数		
		$\leq 0.5h$	$0.5-10h$	$>10h$	$\leq 0.5h$	$0.5-10h$	$>10h$
污水 处理	浓缩器(中心传动)	-	-	1.2	可逆式板坯轧机	-	2.5
	压滤器	1.0	1.3	1.5	可逆式线材轧机	-	1.8
	絮凝器	0.8	1.0	1.3	可逆式薄板轧机	-	2.0
	曝气机	-	1.8	2.0	可逆式中厚板轧机	-	1.8
	搜集设备	1.0	1.2	1.3	辊缝调节驱动装置	0.9	1.0
	纵向、回转组合接集装置	1.0	1.3	1.5	斗工输送机	-	1.2
	预浓缩器	-	1.1	1.3	绞车	1.4	1.6
	螺杆泵	-	1.3	1.5	卷扬机	-	1.5
	水轮机	-	-	2.0	皮带输送机 $< 150\text{kw}$	1.0	1.2
	离心泵	1.0	1.2	1.3	皮带输送机 $\geq 150\text{kw}$	1.1	1.3
	1个活塞容积式泵	1.3	1.4	1.8	货用电梯*	-	1.2
	>1个活塞容积式泵	1.2	1.4	1.5	客用电梯*	-	1.5
	斗式运输机	-	1.6	1.6	刮板式输送机	-	1.2
	倾卸装置	-	1.3	1.5	自动扶梯	-	1.4
挖泥机	Carteypillar行走机构	1.2	1.6	1.8	轨道行走机构	-	1.5
	斗轮式挖掘机(用于捡拾)	-	1.7	1.7	变频装置	-	1.8
	斗轮式挖掘机(用于粗料)	-	2.2	2.2	往复式压缩机	-	1.8
	切碎机	-	2.2	2.2	回转机构*	1	1.4
	行走机构*	-	1.4	1.8	俯仰机构	1	1.1
	弯板机*	-	1.0	1.0	行走机构	1.5	1.75
	挤压机	-	-	1.6	提升机构*	1	1.1
化学 工业	调浆机	-	1.8	1.8	转臂式起重机	1	1.25
	橡胶研磨机	-	1.5	1.5	冷却塔风扇	-	-
	冷却圆筒	-	1.3	1.4	风机(轴流和离心式)	-	1.4
	混料机, 用于均匀介质	1.0	1.3	1.4	蔗糖生产	甘蔗切碎机*	-
	混料机, 用于非均匀介质	1.4	1.6	1.7	甘蔗碾磨机	-	-
	搅拌机, 用于密度均匀介质	1.0	1.3	1.5	甜菜绞碎机	-	-
	搅拌机, 用于非均匀介质	1.2	1.4	1.6	榨取机, 机械致冷机, 蒸煮机	-	-
	搅拌机, 用于不均匀气体吸收	1.4	1.6	1.8	甜菜清洗机	-	-
	烘炉	1.0	1.3	1.5	甜菜切碎机	-	-
	离心机	1.0	1.2	1.3	各种类型*	-	1.8
	翻板机	1.0	1.0	1.2	碎浆机驱动装置	2.0	2.0
	推钢机	1.0	1.2	1.2	离心式压缩机	-	1.4
金属 加工 设备	绕线机	-	1.6	1.6	运货索道	-	1.3
	冷床横移架	-	1.5	1.5	往返系统空中索道	-	1.6
	辊式矫直机	-	1.6	1.6	T型杆升降机	-	1.3
	辊道(连续式)	-	1.5	1.5	连续索道	-	1.4
	辊道(间歇式)	-	2.0	2.0	混凝土搅拌器	-	1.5
	可逆式轧管机	-	1.8	1.8	破碎机*	-	1.2
	剪切机(连续式)*	-	1.5	1.5	回转窑	-	-
	剪切机(曲柄式)*	1.0	1.0	1.0	管式磨机	-	-
	连铸机驱动装置	-	1.4	1.4	选粉机	-	1.6
	可逆式开坯机	-	2.5	2.5	辊压机	-	-

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.

Gear Units Service Factor

Table 1 Factor for driven machine				f_1			
Driven machines	Effective daily operating period under load in hours			Driven machines	Effective daily operating period under load in hours		
	$\leq 0.5h$	$0.5-10h$	$>10h$		$\leq 0.5h$	$0.5-10h$	$>10h$
Thickeners(central drive)	-	-	1.2	Waste water treatment	Reversing slabbing mills	-	2.5
Filter presses	1.0	1.3	1.5		Reversing wire mills	-	1.8
Flocculation apparatus	0.8	1.0	1.3		Reversing sheet mills	-	2.0
Aerators	-	1.8	2.0		Reversing plate mills	-	1.8
Raking equipment	1.0	1.2	1.3		Roll adjustment drives	0.9	1.0
Combined longitudinal and rotary rakes	1.0	1.3	1.5		Bucket conveyors	-	1.2
Pre-thickeners	-	1.1	1.3		Hauling winches	1.4	1.6
Screw pumps	-	1.3	1.5		Hoists	-	1.5
Water turbines	-	-	2.0		Belt conveyors < 150 kw	1.0	1.2
Centrifugal pumps	1.0	1.2	1.3		Belt conveyors ≥ 150 kw	1.1	1.3
1piston positive-displacement pumps	1.3	1.4	1.8		Goods lifts *	-	1.2
>1piston positive-displacement pumps	1.2	1.4	1.5		Passenger lifts *	-	1.5
Bucket conveyors	-	1.6	1.6		Apron conveyors	-	1.2
Dumping devices	-	1.3	1.5		Escalators	-	1.4
Carterpillar travelling gears	1.2	1.6	1.8		Rail travelling gears	-	1.5
Bucket wheel excavators as pick-up	-	1.7	1.7	Dredgers	Frequency converters	-	1.8
Bucket wheel excavators for primitive material	-	2.2	2.2		Reciprocating compressors	-	1.8
Cutter heads	-	2.2	2.2		Slewing gears *	1	1.4
Traversing gears *	-	1.4	1.8		Luffing gears	1	1.1
Plate bending machines *	-	1.0	1.0		Travelling gears	1.5	1.75
Extruders	-	-	1.6		Hoisting gears *	1	1.1
Dough mills	-	1.8	1.8		Derrick jib cranes	1	1.25
Rubber calenders	-	1.5	1.5		Cooling tower fans	-	2.0
Cooling drums	-	1.3	1.4		Blowers(axial and radial)	-	1.4
Mixers for uniform media	1.0	1.3	1.4		Cane knives *	-	1.7
Mixers for non-uniform media	1.4	1.6	1.7	Chemical industry	Cane mills	-	1.7
Agitators for media with uniform density	1.0	1.3	1.5		Beet cossettes macerators	-	1.2
Agitators for media with non-uniform density	1.2	1.4	1.6		Extraction plants, Mechanical refrigerators, Juice boilers,	-	1.4
Agitators for media with non-uniform gas absorption	1.4	1.6	1.8		Sugar beet washing machines	-	1.5
Toasters	1.0	1.3	1.5		Sugar beet cutters	-	1.5
Centrifuges	1.0	1.2	1.3		Of all-kind **	-	1.8
Plate tilters	1.0	1.0	1.2		Pulper drives	2.0	2.0
Ingot pushers	1.0	1.2	1.2		Centrifugal compressors	-	1.4
Winding machines	-	1.6	1.6		Material ropeways	-	1.3
Cooling bed transfer frames	-	1.5	1.5		To-and fro system aerial ropeways	-	1.8
Roller straighteners	-	1.6	1.6	Cableways	T-bar lifts	-	1.3
Roller tables continuous	-	1.5	1.5		Continuous ropeways	-	1.4
Roller tables intermittent	-	2.0	2.0		Concrete mixers	-	1.5
Roller tables Reversing tube mills	-	1.8	1.8		Breakers*	-	1.2
Shears continuous *	-	1.5	1.5		Rotary kilns	-	2.0
Shears crank type *	1.0	1.0	1.0		Tube mills	-	2.0
Continuous casting drivers	-	1.4	1.4		Separators	-	1.6
Reversing blooming mills	-	2.5	2.5		Roll crushers	-	2.0

Design for power rating of driven machine P2

*)Designed power corresponding to max.torque.

**)A check for thermal capacity is absolutely essential.

减速器服务系数

表 2 原动机系数		f_2
电机, 液压马达, 汽轮机		1.0
4-6 缸活塞发动机		1.25
1-3 缸活塞发动机		1.5

表 3 减速器安全系数				f_3
重要性与安全要求	一般设备, 减速器失效仅引起单机停产且易更换备件	重要设备, 减速器失效引起机组、生产线或全厂停产.	高度安全要求, 减速器失效引起设备、人身事故	
f_3	1.1-1.3	1.3-1.5	1.5-1.7	

表4 起动系数					f_4
f_4 每小时起动次数	$f_1 \times f_2 \times f_3$	1	1.25-1.75	2-2..75	≥ 3
≤ 5		1	1	1	1
6-25		1.2	1.12	1.06	1
26-60		1.3	1.2	1.12	1.06
61-180		1.5	1.3	1.2	1.12
> 180		1.7	1.5	1.3	1.2

表5 峰值扭矩系数					f_5
每小时峰值负荷次数					
	1-5	6-30	31-100	>100	
单向载荷	0.5	0.65	0.7	0.85	
交变载荷	0.7	0.95	1.10	1.25	

表6 环境温度系数						f_6
不带辅助冷却装置或仅带冷却风扇						
环境温度	每小时工作周期 (ED) 百分比 %					
	100	80	60	40	20	
10°C	1.11	1.31	1.60	2.14	3.64	
20°C	1.00	1.18	1.44	1.93	3.28	
30°C	0.88	1.04	1.27	1.70	2.89	
40°C	0.75	0.89	1.08	1.45	2.46	
50°C	0.63	0.74	0.91	1.22	2.07	

表7 海拔高度系数						f_7
不带辅助冷却装置或仅带冷却风扇						
系数	海拔高度(m)					
	高达 1000	高达 2000	高达 3000	高达 4000	高达 5000	
f_7	1.0	0.95	0.90	0.85	0.80	

Gear Units Service Factor

Table 2 Factor for prime mover		f_2
Electric motors, hydraulic motors, turbines		1.0
Piston engines 4-6 cylinders		1.25
Piston engines 1-3 cylinders		1.5

Table 3 Safety factor				f_3
Importance and safety request	Ordinary equipment, malfunction only cause accident of single-machine and easily replaced.	Important equipment, malfunction cause the accident of assembling unit, production-line or whole factory.	Safety request highly, malfunction cause the accident of equipment and personal injury.	
f_3	1.3-1.7	1.5-2.0	1.7-2.5	

Table 4 Start factor					f_4
f_4 Starts per hour	$f_1 \times f_2 \times f_3$	1	1.25-1.75	2-2..75	≥ 3
≤ 5		1	1	1	1
6-25		1.2	1.12	1.06	1
26-60		1.3	1.2	1.12	1.06
61-180		1.5	1.3	1.2	1.12
> 180		1.7	1.5	1.3	1.2

Table 5 Peak torque factor					f_5
Load peak per hour					
	1-5	6-30	31-100	>100	
Steady direction of load	0.5	0.65	0.7	0.85	
Alternating direction of load	0.7	0.95	1.10	1.25	

Table 6 Thermal factor						f_6
Without auxiliary cooling or with fan cooling						
Ambient temperature	Operating cycle per hour (ED) in %					
10°C	100	80	60	40	20	
20°C	1.11	1.31	1.60	2.14	3.64	
30°C	1.00	1.18	1.44	1.93	3.28	
40°C	0.88	1.04	1.27	1.70	2.89	
50°C	0.75	0.89	1.08	1.45	2.46	

Table 7 Factor for altitude						f_7
Without auxiliary cooling or with fan cooling						
Altitude (meters)						
Factor						
	Up to 1000	Up to 2000	Up to 3000	Up to 4000	Up to 5000	
f_7	1.0	0.95	0.90	0.85	0.80	

Utilization factor f_8							
30%	40%	50%	60%	70%	80%	90%	100%
0.66	0.77	0.83	0.90	0.90	0.95	1.0	1.0

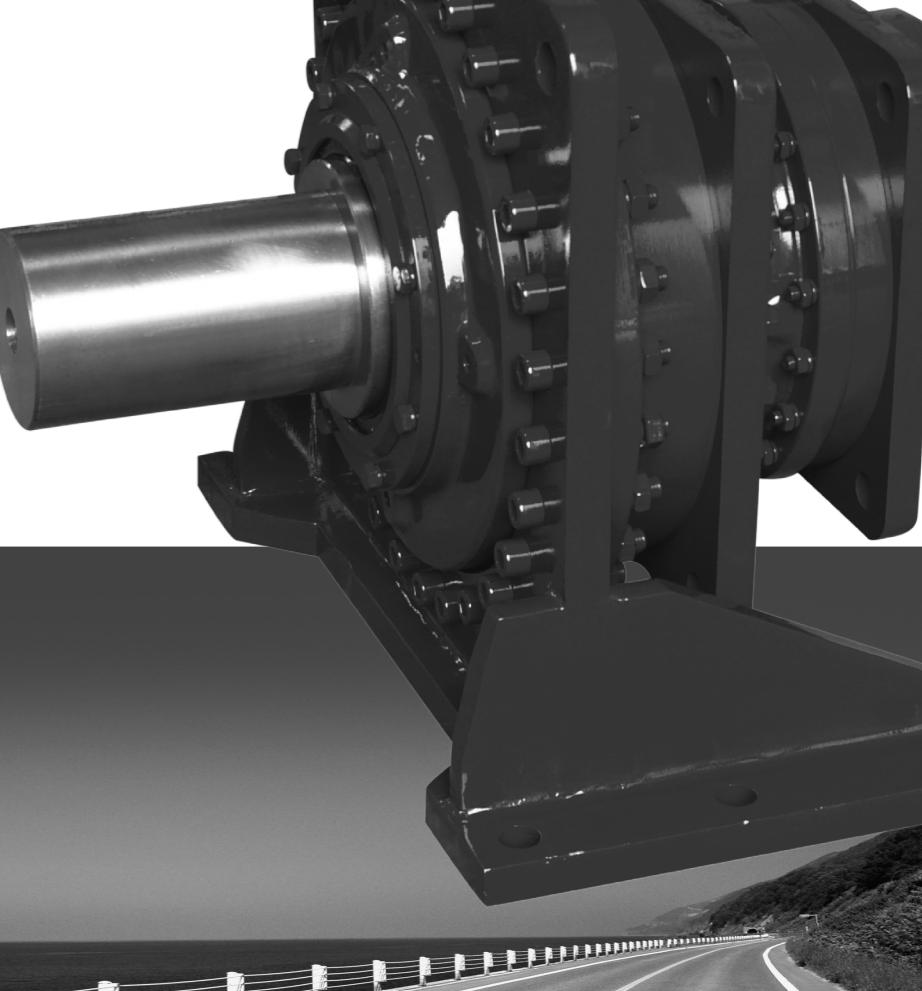
功率利用率系数 f_8							
30%	40%	50%	60%	70%	80%	90%	100%
0.66	0.77	0.83	0.90	0.90	0.95	1.0	1.0

Oil supply factors for vertical gear units. For horizontal gear units $f_9=1.0$, and in case of forced lubrication $f_9=1.05$ f_9								
Type	Oil supply	Sizes 1...12				Sizes 13...18		
		Without auxiliary cooling	With fan cooling	With cooling coil	With fan and cooling coil	Without auxiliary cooling	With fan cooling	With cooling coil
TH2.V	Dip lubrication	0.95	....	....	....	....	....	....
TH3.V	Forced lubrication	1.15	....	....	....	1.15	....	....
TH4.V								
TB2.V	Dip lubrication	0.95	0.95	....	....	....	....	....
TB3.V	Forced lubrication	1.15	1.10	....	....	1.15	1.10	....
TB4.V								

....)On request

表9 立式安装减速器供油系数。对于卧式安装 $f_9=1$; 当采用强制润滑时, $f_9=1.05$ f_9									
类型	供油方式	规格1...12			规格13...18				
		不带辅助冷却装置	带冷却风扇	带冷却盘管	带风扇和冷却盘管	不带辅助冷却装置	带冷却风扇	带冷却盘管	带风扇和冷却盘管
TH2.V	浸油润滑	0.95	....	....	....	....	....	....	....
TH3.V	强制润滑	1.15	1.15
TH4.V									
TB2.V	浸油润滑	0.95	0.95
TB3.V	强制润滑	1.15	1.10	1.15	1.10
TB4.V									

....)根据用户要求供货



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About Development

关于发展



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公司始终坚持“以市场为导向, 以科技求发展, 以质量求生存, 以管理求效益”的方针, 在不断自我完善的同时, 我们真诚的希望海内外的新老朋友光临公司, 共展宏图。

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Our company always adheres to the policy of "market orientation, development by technology, survival by quality and performance from management". While keeping improving ourselves continually, we sincerely hope that both old and new friends at home and abroad visit us for common development.