

TONGLI 通力

值得信赖的合作伙伴

减速机选型样本

GEAR UNITS MODEL SELECTION SAMPLE



国家高新技术企业
STATE HIGH-TECH ENTERPRISE

省级隐形冠军企业
PROVINCIAL HIDDEN-CHAMPION

省级企业研究院
PROVINCIAL RESEARCH INSTITUTE



二〇二二年
(总第九版)

入选《机械设计手册》选型标准
(化工工业出版社/机械工业出版社)

Listed in 《Handbook of mechanical design》
as guideness of gearbox selection

STANDARD
PRODUCTS

标准产品



I TR系列斜齿轮硬齿面减速机
TR series Rigid Tooth Flank
Helical Gear Reducer



I TS系列斜齿-蜗轮蜗杆减速机
TS series Helical-worm
Gear Reducer



I TF系列平行轴斜齿轮减速机
TF series Parallel Shaft
Helical Gear Reducer



I TK系列螺旋锥齿轮减速机
TK series Helical-bevel
Gear Reducer



I TH系列硬齿面齿轮减速机
TH series Rigid Tooth Flank
Gearbox



I TB系列硬齿面齿轮减速机
TB series Rigid Tooth Flank
Gearbox



I SJ系列蜗轮丝杆升降机
SJ series Worm Screw
elevators



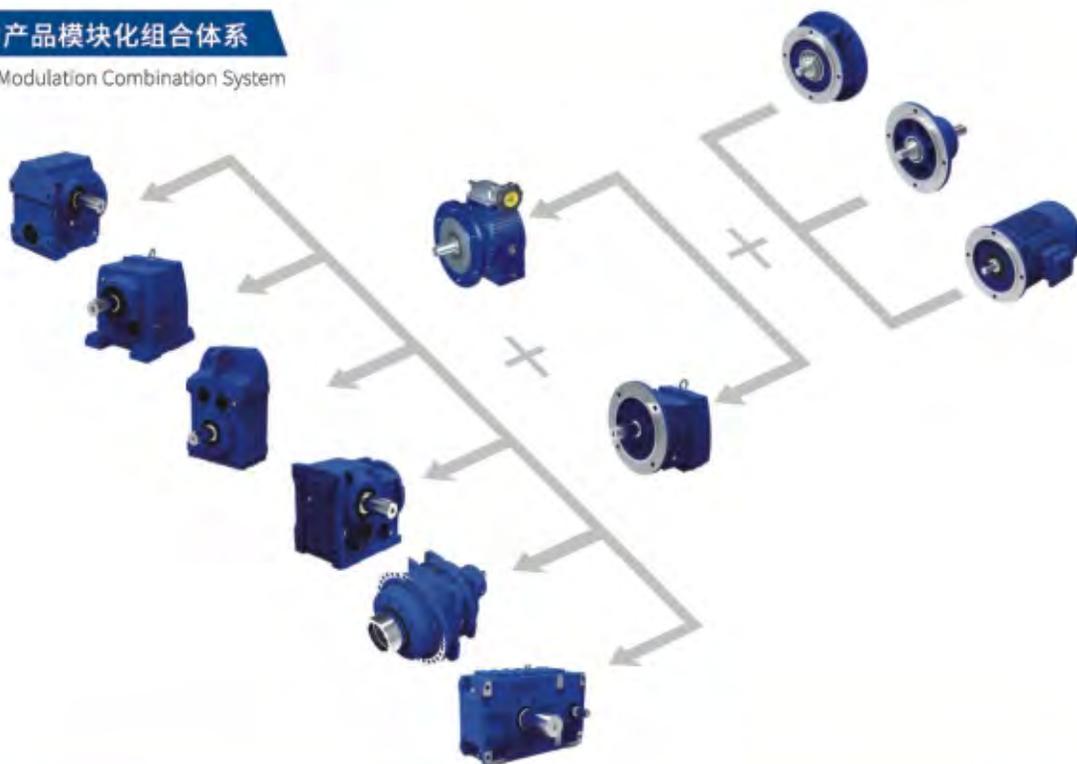
I Z系列螺旋锥齿减速机
Z series Spiral Bevel
Gear Reducer



I TP系列行星齿轮减速机
TP series Planetary
Gear Units

通力产品模块化组合体系

TONGLI Modulation Combination System





| 粗轧卷取机用减速机
Uncoiler Specialized
Gearbox



| 粗轧机用主减速机
Rolling Mill
Specialized Gearbox



| 刮板输送机用减速机
Scraper Conveyor
Specialized Gearbox



| 开收卷机用减速机
Uncoiler
Specialized Gearbox



| 棕榈油专用减速机
Palm Oil Specialized
Gearbox



| 干燥窑用减速机
Dry Kiln Specialized
Gearbox



| 精轧卷取机用减速机
Precision Uncoiler
Specialized Gearbox



| 颗粒机专用减速机
Granulator Specialized
Gearbox



| 启闭机用减速机
Hoist Specialized
Gearbox

ENTERPRISE
PROFILE

公司简介

浙江通力传动科技股份有限公司（原浙江通力重型齿轮股份有限公司）创建于2008年，是一家专业从事减速机研发、生产、销售及服务的国家高新技术企业，下辖通用减速机、工业齿轮箱二大生产基地。经过十余年的稳健发展和技术积累，公司现已成为中国减速机行业的知名企业之一，在技术、装备、产品性能等方面均处于国内先进水平。近年来，通力作为起草单位参与制定了4项减速机国家标准与行业标准；拥有多项核心技术专利，自主研发多个系列减速机（齿轮箱）产品，其中部分产品被列为国家重点新产品和国家火炬计划项目。

通力主导产品通用减速机、工业齿轮箱广泛应用于冶金、化工、环保、能源、制药、起重、输送、建材、粮油等国民经济的支柱产业领域。先后为中国一重、中国二重、中国中冶、中粮集团、青山控股、齐鲁制药、宁德时代、中央电视台春晚舞台、北京冬奥会等国内大型工业企业及国家重点工程项目提供高性能的配套减速机，并出口东南亚、南美、中东等国家和地区，获得国内外众多客户的首肯和赞许。

Zhejiang TONGLI Transmission Technology Co., Ltd. (Originally known as Zhejiang TONGLI Heavy Gear Co., Ltd.) established in 2008 and is a National High-tech Enterprise which engaged in Gearbox R & D, manufacturing, sales and service. After years of steady development and technical accumulation, TONGLI has been grown to become one of the well-known recognized enterprises in China gear industry. At the same time, the technology, equipment, product performance and other aspects of TONGLI are in the domestic advanced level.

Universal gear reducer and Industrial gearbox are TONGLI's leading products and widely used in Metallurgy, Chemical, Environmental protection, Energy, Pharmaceutical, Hoist, Transportation and other pillar industries of the national economy. Successively provide high performance matching gearbox for CFHI, CNEG, MCC Group, COFCO, Tsingshan Holding, QILU Pharmaceutical, CATL, the CCTV Spring Festival GALA stage equipment and other large domestic industrial enterprises & national key projects. TONGLI gearbox exported to Southeast Asia, South America, the Middle East and other countries and regions, and obtained many approvals and praises from home and abroad customers.



轴端螺纹孔，配合公差，平键和键槽

Centre Holes in Shaft Ends, Fit tolerance and Parallel Key and Keyway

	轴端螺纹孔				Centre holes in shaft end						mm
轴径 Φd Diameter	$\geq 16-21$	$>21-24$	$>24-30$	$>30-38$	$>38-50$	$>50-85$	$>85-130$	$>130-225$	$>225-320$	$>320-500$	
螺孔尺寸 Screw	M6X12	M8X16	M10X20	M12X20	M16X30	M20X35	M24X40	M30X50	M36X60	M42X70	

配合公差 Selection of ISO Fits		
轴径 Shaft d/mm	轴径公差 Shaft tolerance	孔公差 Bore tolerance
≤ 25	k6	H7
>25	m6	H7
>100	n6	H7

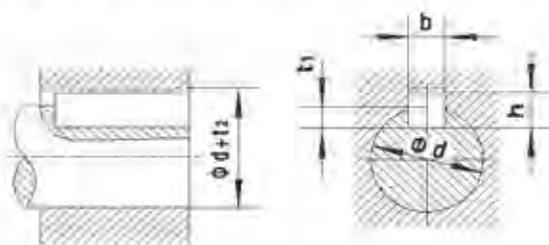
平键和键槽	Parallel key and keyway					mm
	直径 Diameter d	宽度 Width b	高度 Height h	轴键槽深度 Depth of keyway in shaft t_1	轮毂键槽深度 Depth of keyway in hub $d+t_2$	
	$>8-10$	3	3	1.8	$d+1.4$	
	$>10-12$	4	4	2.5	$d+1.8$	
	$>12-17$	5	5	3	$d+2.3$	
	$>17-22$	6	6	3.5	$d+2.8$	
	$>22-30$	8	7	4	$d+3.3$	
	$>30-38$	10	8	5	$d+3.3$	
	$>38-44$	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	$d+19.4$	

平键紧固采用无锥度联接。

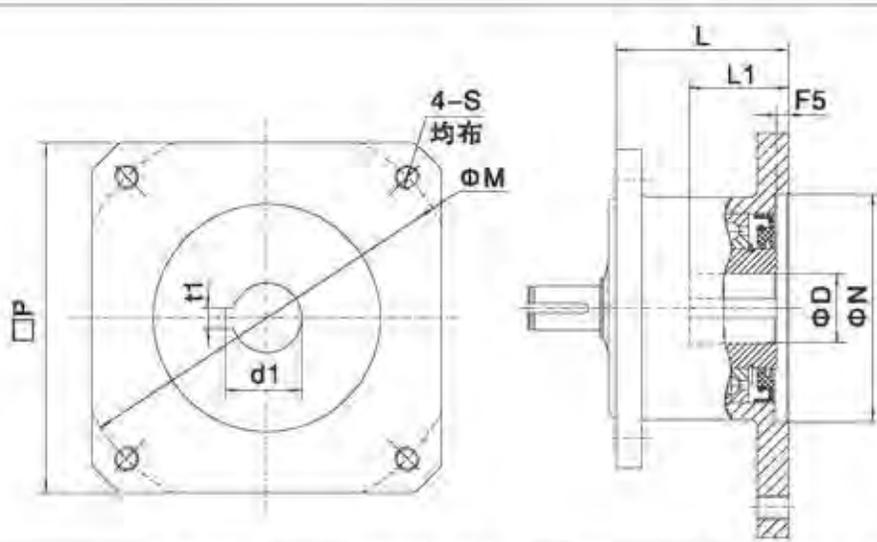
平键和键槽根据GB/T1095-1979标准确定

Drive type fastening without taper action.

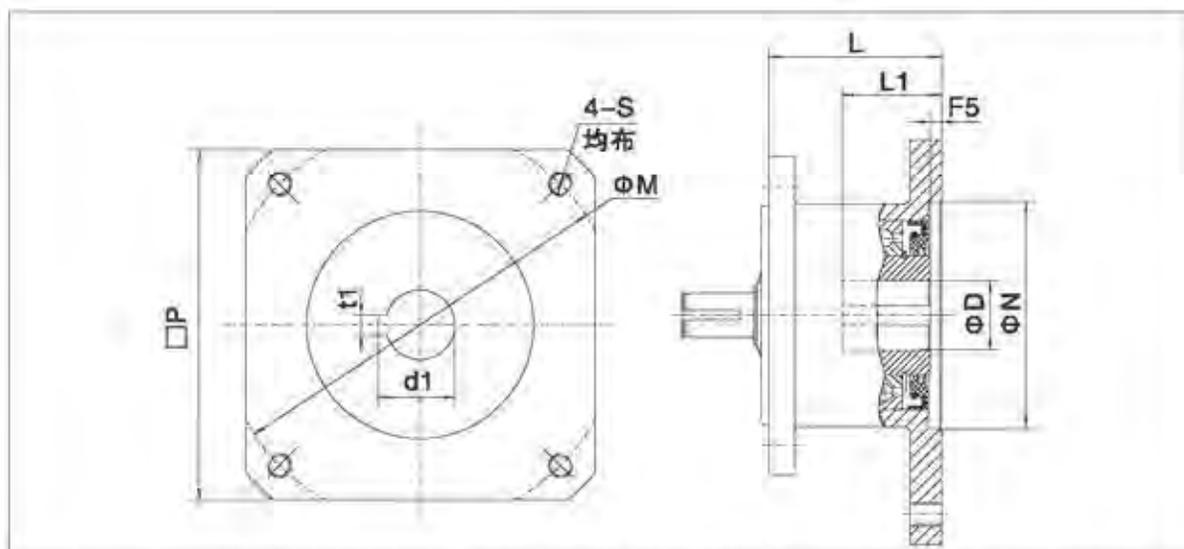
Parallel key and keyway acc. to GB/T 1095-1979



注：配合公差仅为推荐值



机型	代号	$\square P$	M	N	F5	L	S	D	t1	d1	L1
TR18,28,38 TF38,48 TK38 TS38,48,58	SF71 -1	60	70	50	3	56	M5	14	5	16.3	35
	-1	80	90	70	4	64	M6	19	6	21.8	45
	-2	90	100	80	5	64	M6	19	6	21.8	45
	SF80 -3	96	100	80	4	64	M6	19	6	21.8	45
	-4	110	130	95	4	64	M8	19	6	21.8	45
	-5	130	145	110	8	66	M8	22	8	25.3	55
	SF90 -1	100	115	95	7	66	M6	24	8	27.3	55
	-2	126	130	110	5	66	M8	24	8	27.3	55
	TR48,58,68 TF58,68 TK48,58,68 TS68 TRX58,68	-1	80	90	70	5	75	M6	19	6	21.8	45
SF80 -2		96.5	100	80	5	75	M6	19	6	21.8	45
-3		110	130	95	6	75	M8	19	6	21.8	45
-1		100	115	95	7	76	M8	22	8	25.3	55
SF90 -2		130	145	110	6	76	M8	22	8	25.3	55
-3		126	130	110	5	76	M8	24	8	27.3	55
-4		142	165	130	4	76	M10	24	8	27.3	55
SF100 -1		145	165	130	4	77	M10	24	8	27.3	55
-2		140	165	130	4	77	M10	28	8	31.3	65
-1		155	165	130	4	88	M10	32	10	35.3	80
SF132 -2		180	200	114.3	6	88	M12	35	10	38.3	80
-3		192	215	180	5	88	M12	38	10	41.3	80



机型	代号	□P	M	N	F5	L	S	D	t1	d1	L1	
TR78 TF78 TK78 TS78 TRX78	SF80 -1	110	130	95	4	66	M8	19	6	21.8	45	
	-1	100	115	95	7	70	M8	22	8	25.3	55	
	SF90	-2	130	145	110	10	73	M8	22	8	25.3	55
		-3	126	130	110	5	68	M8	24	8	27.3	55
	-4	143	165	130	5	68	M10	24	8	27.3	55	
	SF100	-1	150	165	130	5	68	M10	28	8	31.3	65
		-1	155	165	130	6	73	M10	32	10	35.3	80
	SF132	-2	180	200	114.3	6	76	M12	35	10	38.3	80
		-3	192	215	180	5	73	M12	38	10	41.3	80
		-4	224	215	180	5	73	M12	38	10	41.3	80
TR88 TF88 TK88 TS88 TRX88	SF80 -1	100	115	95	4	73	M8	19	6	21.8	45	
	SF90 -1	130	145	110	6	73	M8	22	8	25.3	55	
	SF100 -1	150	165	130	5	74	M10	28	8	31.3	65	
	-1	155	165	130	5	88	M10	32	10	35.3	80	
	SF132	-2	180	200	114.3	6	88	M12	35	10	38.3	80
		-3	192	215	180	5	88	M12	38	10	41.3	80
TR98 TF98 TK98 TS98 TRX98	SF90 -1	130	145	110	7	68	M8	22	8	25.3	55	
	-1	155	165	130	5	83	M10	28	8	31.3	65	
	SF132	-2	192	215	180	5	83	M12	32	10	35.3	80
		-3	180	200	114.3	7	83	M12	35	10	38.3	80
	-4	185	215	180	5	83	M12	38	10	41.3	80	
TR108,TF108 TK108,TRX108	SF132 -1	190	215	180	5	83	M12	38	10	41.3	80	
	SF180 -1	260	300	250	5	113	M16	48	14	51.8	110	
TR138	SF132 -1	196	215	180	7	78	M12	38	10	41.3	80	

- TR系列斜齿轮硬齿面减速机、TK系列螺旋锥齿轮减速机、TF系列平行轴斜齿轮减速机、TS系列斜齿—蜗轮蜗杆减速机、Z系列螺旋锥齿轮减速机，具有体积小，传递扭矩大的特点。
- 在模块组合体系基础上设计制造，有极多的电机组合、安装型式和结构方案，传动比分级细密，满足不同使用工况，实现机电一体化。
- TR、TK、TF、TS四大系列减速机采用单元结构模块化设计原理，大量减少了零部件种类和库存量，也大大的缩短了交货周期。
- 传动效率高，耗能低，性能优越。
- 带筋的高刚性铸铁箱体；硬齿面齿轮采用优质合金钢，表面经渗碳淬火硬化处理，磨齿精细加工，传动平稳、噪声低、承载能力大，温升低、寿命长。
- TR series rigid tooth flank helical gear units, TK series helical-bevel gear units, TF series parallel shaft helical gear units, TS series helical-worm gear units, Z series spiral bevel gear units, have such outstanding characters as small size and large transmission torque.
- Designed and manufactured on the basis of modular portfolio system, the gear units have abundant combinations with motors, numbers of mounting positions and structure schemes, and a finer grade of transmission ratio, which meet the requirements of various working conditions and realize mechatronics.
- TR, TK, TF, TS four main series gear units adopt the modular cell structure design, which greatly reduced the classification and inventory of parts, and thus the delivery cycle is significantly shortened.
- High efficiency transmission, low energy consumption and superior performance.
- High rigid cast iron housing with ribs. The rigid tooth flank gear adopts high-quality alloy steel, and is hardened with carburizing and quenching treatment and refined by grinding. Smooth drive, low noise, large load capacity and long service life.

选型方法

Type selection method

- 减速机是按载荷平稳，每天工作时间一定和少量起停次数的情况设计的，而在实际使用中往往不是处于此种理想状况，因此必须按照实际情况的载荷类型、运行时间、起动频率来确定工作机系数 f_1 、减速器安全系数 f_2 、起动系数 f_3 。使其小于或等于选型表中的服务系数 f_s ，即

$$f_1 \times f_2 \times f_3 \leq f_s$$

式中

 - f_1 — 工作机系数 (见表1)
 - f_2 — 减速器安全系数 (见表2)
 - f_3 — 起动系数 (见表3)
- TK系列和Z系列螺旋锥齿轮减速机如果只承受单向载荷则最好注明旋转方向（从输出端方向看），这样有利于改善螺旋锥齿轮的受力状况。
- 输入、输出轴配带轮、链轮、齿轮或会产生其他附加载荷等情况，请与我公司联系
- 我公司可承接特殊规格产品的订货，并可为客户提供专用设计服务。
- 本样本中如有改进之处，不另作通知，请谅解。
- 四大系列减速机98机座以下在出厂前已加润滑油，108机座以上出厂前不加润滑油。
- Gear units are designed under the circumstance of steady load, stated operating time per day and a few starting times, but the practical condition will be not as perfect as the designed circumstance, so we must confirm driven machine factor f_1 , gear units safety factor f_2 , starting factor f_3 according to actual load type, operating time, starting frequency, let it less than or equal to the service factor f_s of selection table, viz

$$f_1 \times f_2 \times f_3 \leq f_s$$

In the formula

 - f_1 — driven machine factor (see table 1)
 - f_2 — gear units safety factor (see table 2)
 - f_3 — starting factor (see table 3)
- If the TK series and Z series spiral bevel gear units can only bear single direction load, please indicate the rotating direction (see from output side), which is good for improving the pressing state of the spiral bevel gear.
- Input, output shaft equipped with wheel, sprocket, gear or can generate additional load and so on, please contact our company.
- We accept the orders of products of special specification, and provide our customer with exclusive design service.
- Design and specifications are subject to change without notice. Please forgive
- The four series gearbox under 98's have added lubricating oil before leave the factory, but 108's and above didn't add lubricating oil.

减速器服务系数

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	液泵(中心传动)	-	-	1.2	金属加工设备	可逆式板坯轧机	-	2.5	2.5
	压缩机	1.0	1.3	1.5		可逆式线材轧机	-	1.8	1.8
	蒸发器	0.8	1.0	1.3		可逆式薄板轧机	-	2.0	2.0
	曝气机	-	1.8	2.0		可逆式中厚板轧机	-	1.8	1.8
	压滤设备	1.0	1.2	1.3		摆线调速驱动装置	0.9	1.0	-
	纵向、回转组合架装置	1.0	1.3	1.5		斗式输送机	-	1.2	1.5
	板框压滤器	-	1.1	1.3		胶车	1.4	1.6	1.6
	螺杆泵	-	1.3	1.5		卷扬机	-	1.5	1.8
	水轮机	-	-	2.0		皮带输送机 $< 150kw$	1.0	1.2	1.3
	离心泵	1.0	1.2	1.3		皮带输送机 $\geq 150kw$	1.1	1.3	1.5
	1个活塞容积式泵	1.3	1.4	1.8		货用电梯*	-	1.2	1.5
	> 1 个活塞容积式泵	1.2	1.4	1.5		客用电梯*	-	1.5	1.8
挖泥机	斗式输送机	-	1.6	1.6	刮板式输送机	-	1.2	1.5	
	装卸装置	-	1.3	1.5	自动扶梯	-	1.2	1.4	
	Carleypillar行走机构	1.2	1.6	1.8	轨道交通机构	-	1.5	-	
	斗轮式挖泥机(用于拾拾)	-	1.7	1.7	变频装置	-	1.8	2.0	
	斗轮式挖泥机(用于粗料)	-	2.2	2.2	往复式压缩机	-	1.8	1.9	
	破碎机	-	2.2	2.2	回转机构*	1	1.4	1.8	
	行走机构*	-	1.4	1.8	俯仰机构	1	1.25	1.5	
化 学 工 业	弯板机*	-	1.0	1.0	行走机构	1.5	1.75	2	
	挤压机	-	-	1.6	提升机构*	1	1.25	1.5	
	调浆机	-	1.8	1.6	转弯式起重机*	1	1.25	1.6	
	橡胶研光机	-	1.5	1.5	冷却塔风扇	-	-	2.0	
	冷却器前	-	1.3	1.4	风机(轴流和离心式)	-	1.4	1.5	
	混料机,用于均匀介质	1.0	1.3	1.4	甘蔗切碎机*	-	-	1.7	
	混料机,用于非均匀介质	1.4	1.6	1.7	甘蔗碾磨机	-	-	1.7	
	搅拌机,用于密度均匀介质	1.0	1.3	1.5	甘蔗校碎机	-	-	1.2	
	搅拌机,用于非均匀介质	1.2	1.4	1.6	榨取机,机械冷却,蒸馏机	-	-	1.4	
	搅拌机,用于不均匀气体吸收	1.4	1.6	1.8	甘蔗清洗机	-	-	1.5	
烘炉	1.0	1.3	1.5	甘蔗切碎机	-	-	1.5		
金 属 加 工 设 备	离心机	1.0	1.2	1.3	造纸机械	各种类型**	-	1.8	2.0
	翻板机	1.0	1.0	1.2	碎浆机驱动装置	2.0	2.0	2.0	
	推板机	1.0	1.2	1.2	离心式压缩机	-	1.4	1.5	
	铸钢机	-	1.6	1.6	索道	运货索道	-	1.3	1.4
	冷冻输送机	-	1.5	1.5	索道	往复式架空索道	-	1.6	1.8
	辊式输送机	-	1.6	1.6	索道	T型杆升降机	-	1.3	1.4
	辊道(连续式)	-	1.5	1.5	索道	连续索道	-	1.4	1.6
	辊道(间歇式)	-	2.0	2.0	水泥工业	混凝土搅拌机	-	1.5	1.5
	可逆式轧管机	-	1.8	1.6	破碎机*	-	1.2	1.4	
	剪切机(连续式)*	-	1.5	1.5	回弹器	-	-	2.0	
	剪切机(间歇式)*	1.0	1.0	1.0	臂式磨机	-	-	2.0	
	连续机驱动装置	-	1.4	1.4	选粉机	-	1.6	1.6	
	可逆式开卷机	-	2.5	2.5	碾压机	-	-	2.0	

工作机额定功率 P_2 的确定 *)按最大扭矩确定额定功率. **)校验热功率是绝对必要的.

重要性要求	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_2	1-1.2	1.2-1.4	1.4-1.6

f_3	f_1				
	1	1.25	2-	≥ 3	
每小时启动次数		-1.75	2.75		
≤ 5	1	1	1	1	1
6-25	1.2	1.12	1.06	1	1
26-60	1.3	1.2	1.12	1.06	1.06
61-180	1.5	1.3	1.2	1.12	1.12
> 180	1.7	1.5	1.3	1.2	1.2

Gear Units Service Factor

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	$>10h$		
Waste water treatment	Thickeners(central drive)	-	-	1.2	Metal working mills	Reversing slabbing mills	-	2.5	2.5
	Filter presses	1.0	1.3	1.5		Reversing wire mills	-	1.8	1.8
	Flocculation apparatus	0.8	1.0	1.3		Reversing sheet mills	-	2.0	2.0
	Aerators	-	1.8	2.0		Reversing plate mills	-	1.8	1.8
	Raking equipment	1.0	1.2	1.5		Roll adjustment drives	0.8	1.0	-
	Combined longitudinal and rotary rakes	1.0	1.3	1.5	Conveyors	Bucket conveyors	-	1.2	1.5
	Pre-thickeners	-	1.1	1.3		Hauling winches	1.4	1.6	1.8
	Screw pumps	-	1.3	1.5		Hoists	-	1.5	1.8
	Water turbines	-	-	2.0		Belt conveyors <150 kw	1.0	1.2	1.3
	Centrifugal pumps	1.0	1.2	1.3		Belt conveyors ≥ 150 kw	1.1	1.3	1.5
1 piston positive-displacement pumps	1.3	1.4	1.8	Goods lifts *		-	1.2	1.5	
>1 piston positive-displacement pumps	1.2	1.4	1.5	Passenger lifts *		-	1.5	1.8	
Dredgers	Bucket conveyors	-	1.6	1.6		Apron conveyors	-	1.2	1.5
	Dumping devices	-	1.3	1.5		Escalators	-	1.2	1.4
	Caterpillar travelling gears	1.2	1.6	1.8		Rail travelling gears	-	1.5	-
	Bucket wheel excavators as pick-up	-	1.7	1.7	Frequency converters	-	1.8	2.0	
	Bucket wheel excavators for primitive material	-	2.2	2.2	Reciprocating compressors	-	1.8	1.9	
	Cutter heads	-	2.2	2.2	Cranes	Slewing gears *	1	1.4	1.8
	Traversing gears *	-	1.4	1.8		Luffing gears	1	1.25	1.5
Plate bending machines	-	1.0	1.0	Travelling gears		1.5	1.75	2	
Chemical industry	Extruders	-	-	1.5		Hoisting gears *	1	1.25	1.5
	Dough mills	-	1.8	1.8		Derricking jib cranes *	1	1.25	1.8
	Rubber calendars	-	1.5	1.5	Cooling towers	-	-	2.0	
	Cooling drums	-	1.3	1.4	Blowers(axial and radial)	-	1.4	1.5	
	Mixers for uniform media	1.0	1.3	1.4	Cane sugar production	Cane knives *	-	-	1.7
	Mixers for non-uniform media	1.4	1.6	1.7		Cane mills	-	-	1.7
	Agitators for media with uniform density	1.0	1.3	1.5	Beet sugar production	Beet cassettes macerators	-	-	1.2
	Agitators for media with non-uniform density	1.2	1.4	1.8		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	Paper machines	Sugar beet cutters	-	-	1.5
Centrifuges	1.0	1.2	1.3	Of all-kind **		-	1.8	2.0	
Metal working mills	Plate filters	1.0	1.0	1.2	Pulper drives	2.0	2.0	2.0	
	Ingot pushers	1.0	1.2	1.2	Centrifugal compressors	-	1.4	1.5	
	Winding machines	-	1.6	1.8	Material ropeways	-	1.3	1.4	
	Cooling bed transfer frames	-	1.5	1.5	Cableways	To-and fro system aerial ropeways	-	1.8	1.8
	Roller straighteners	-	1.6	1.6		T-bar lifts	-	1.3	1.4
	Roller tables continuous	-	1.5	1.5		Continuous ropeways	-	1.4	1.6
	Roller tables intermittent	-	2.0	2.0	Cement industry	Concrete mixers	-	1.5	1.5
	Roller tables Reversing tube mills	-	1.8	1.8		Breakers *	-	1.2	1.4
	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		-	1.8	1.8	
Reversing blooming mills	-	2.5	2.5	Roll crushers	-	-	2.0		

Design for power rating of driven machine P_2 *)Designed power corresponding to max.torque.

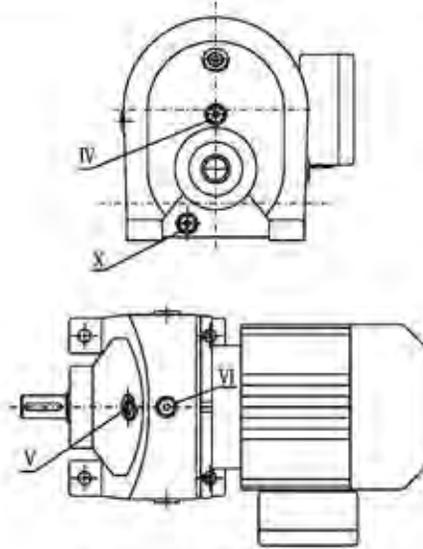
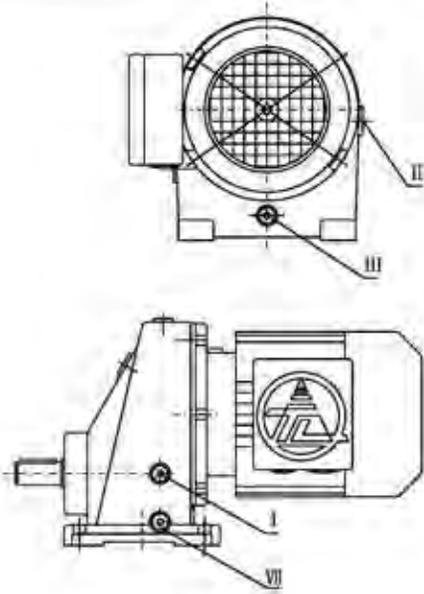
**A check for thermal capacity is absolutely essential.

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_2	1-1.2	1.2-1.4	1.4-1.6

f_3	Start factor				
	f_1	1	1.25-1.75	2-2.75	≥ 3
Starts per hour					
≤ 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

四大系列通气孔、油镜孔（溢油孔）放油孔位置图
Location of four series's Blowhole, oil immersion lens, drain hole

TRX38~TRX158



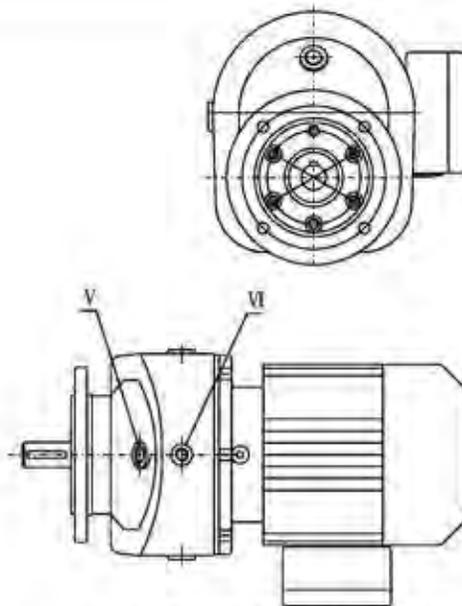
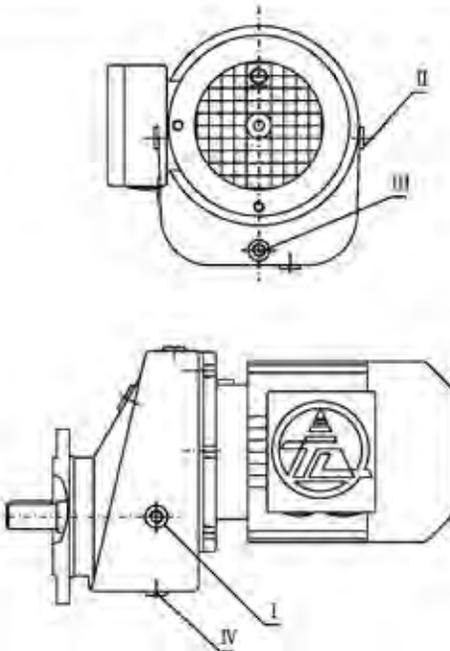
如IV处没加工就用X处

注：TRX38 V孔由VI孔代替

安装方式	M1	M2	M3	M4	M5	M6	
配联法兰时用 II							
如VI处没加工就用III处	通气孔	V	IV或X	III	III	II	I
	油镜孔	I	I或II	I	I	III	III
	放油孔	III或VI	III	V	IV	I	II

所有M4安装, 有条件通气孔钻在直联电机上

TRX38~TRX158

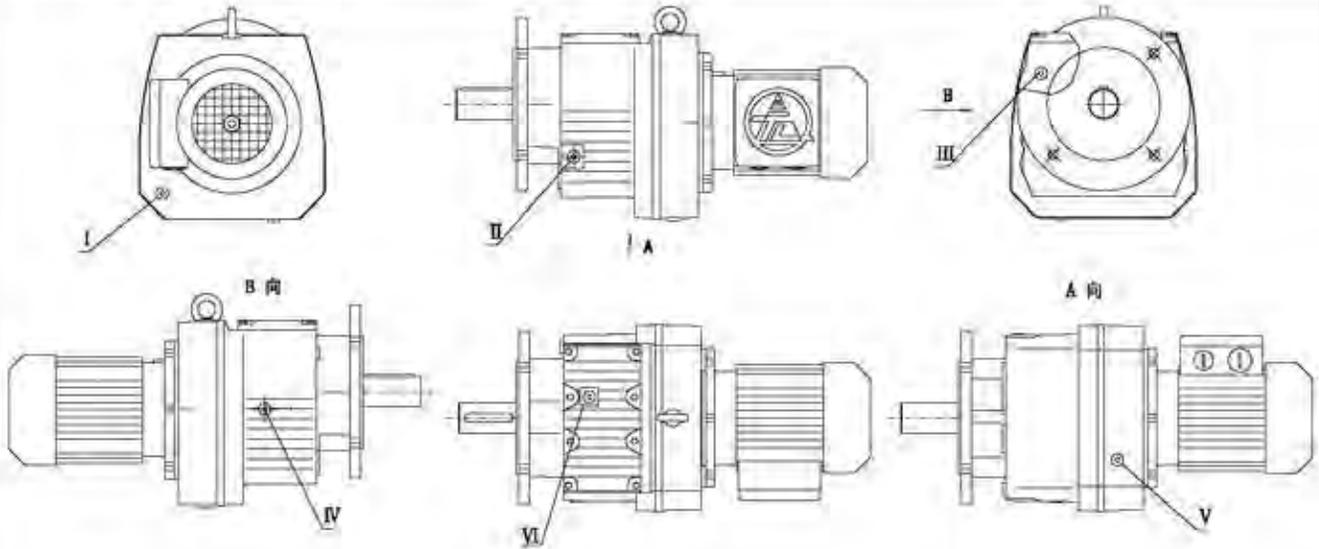


注：M1、M3安装时, TRXF38 V孔由VI孔代替

安装方式	M1	M2	M3	M4	M5	M6	
配联法兰时用 II							
	通气孔	V	V	IV	III	II	I
	油镜孔	I	I	I	I	III	III
	放油孔	IV	III	V	V	I	II

所有M4安装, 有条件通气孔钻在直联电机上

TRF18~TRF188

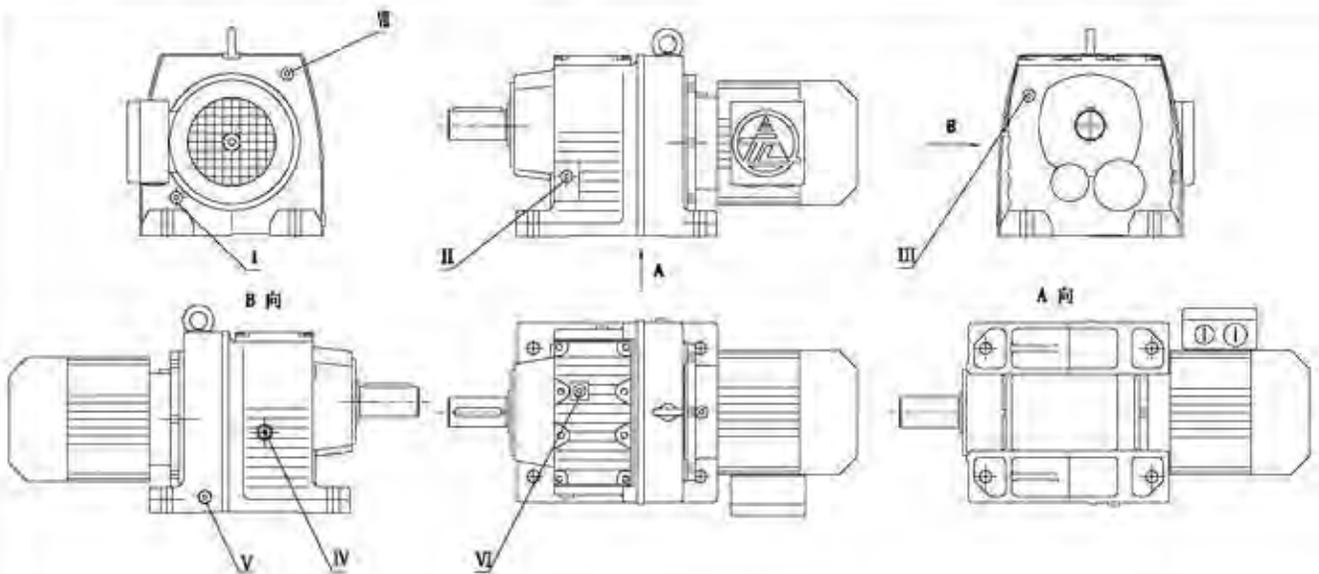


所有M4安装, 有条件通气孔粘在直联电机上

注意: M5, M6安装, 盖板方向取VI孔的高轴位

安装方式 孔位顺序	M1	M2	M3	M4	M5	M6
通气孔	II	III	V	I	IV	II
油镜孔	IV	II	II	V	VI	VI
放油孔	V	I	VI	III	II	IV

TR18~TR188



所有M4安装, 有条件通气孔粘在直联电机上

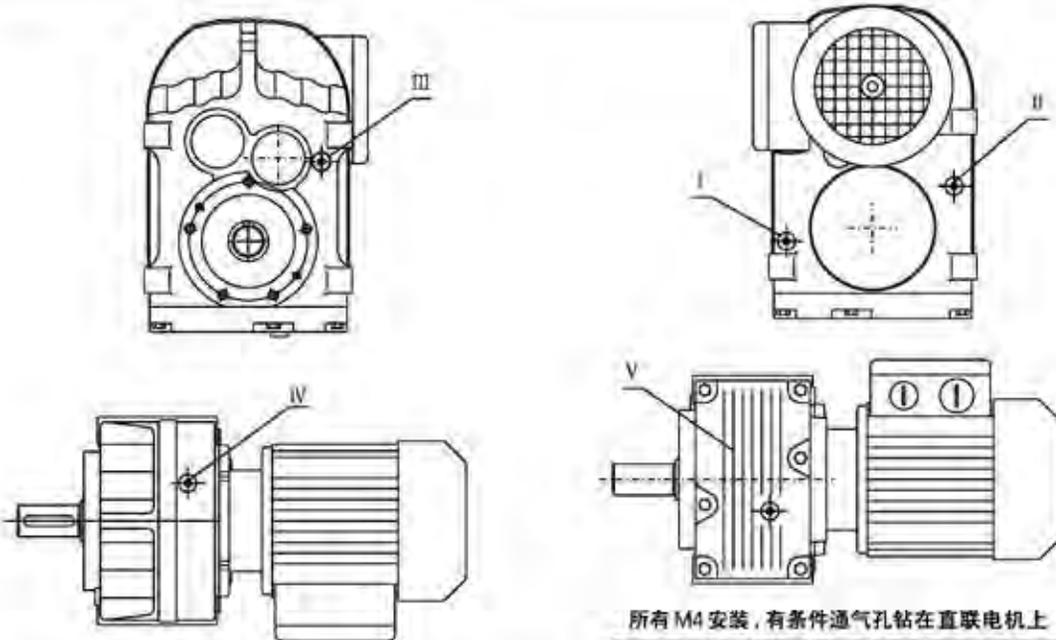
注意: M5, M6安装, 盖板方向取VI孔的高轴位

安装方式 孔位顺序	M1	M2	M3	M4	M5	M6
通气孔	II	III	V	VI	IV	II
油镜孔	IV	II	II	V	VI	VI
放油孔	V	I	VI	III	II	IV

TR18用I

四大系列通气孔、油镜孔（溢油孔）放油孔位置图
Location of four series's Blowhole, oil immersion lens, drain hole

TF..38~TF..178



注:M2安装时盖板方向取高油位。

TF68以下 M5、M6安装时盖板方向取低油位

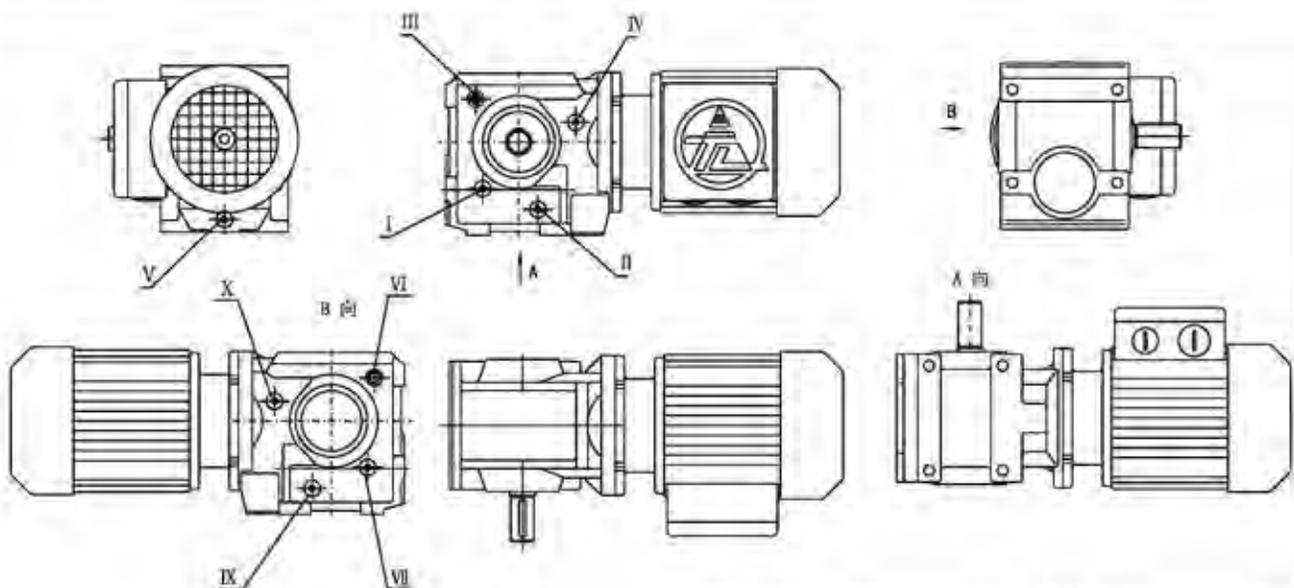
TF78以上 M5、M6安装时盖板方向取高油位

M1、M3、M4安装时盖板方向按图

所有 M4 安装, 有条件通气孔钻在直联电机上

安装方式 孔位顺序	M1	M2	M3	M4	M5	M6
通气孔	IV	III	V	I	II	I
油镜孔	III	V	II	IV	V	V
放油孔	V	I	IV	III	I	II

TS38

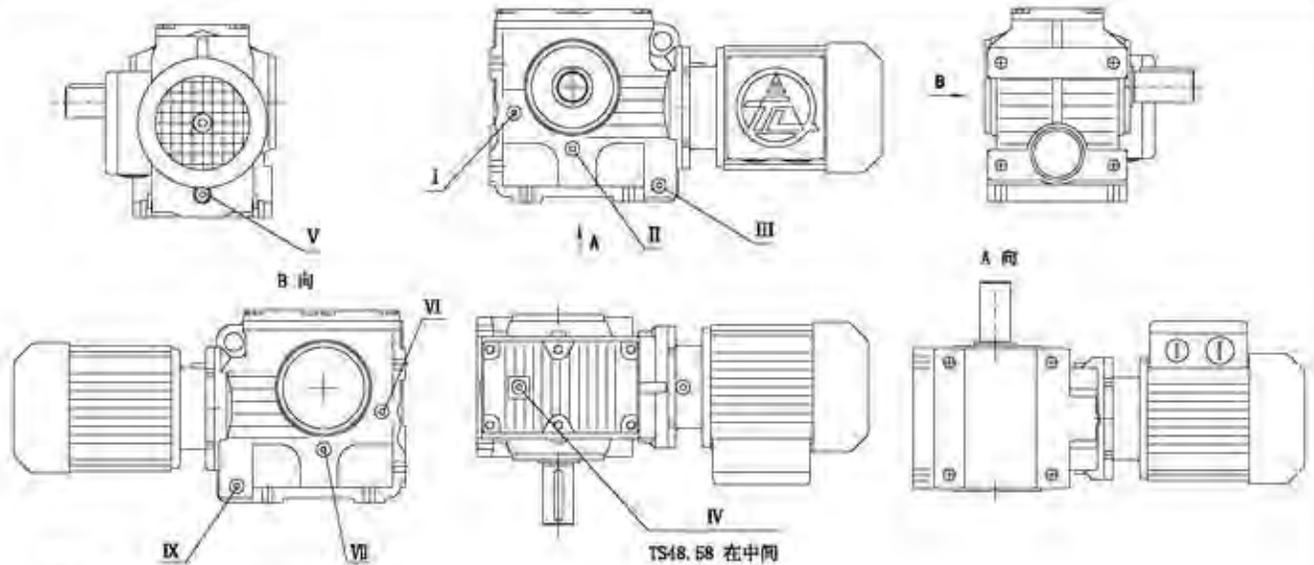


注:油镜安装在两侧且为实心单输出时,装在输出轴反方向,如为双输出或是空心轴则安装在A面

所有 M4 安装, 有条件通气孔钻在直联电机上

安装方式 孔位顺序	M1	M2	M3	M4	M5	M6
通气孔	III	III	V	V	VI	III
油镜孔	I/VII	II/IX	I/VII	IV/X	V	V
放油孔	V	V	III	III	III	VI

TS48~TS98

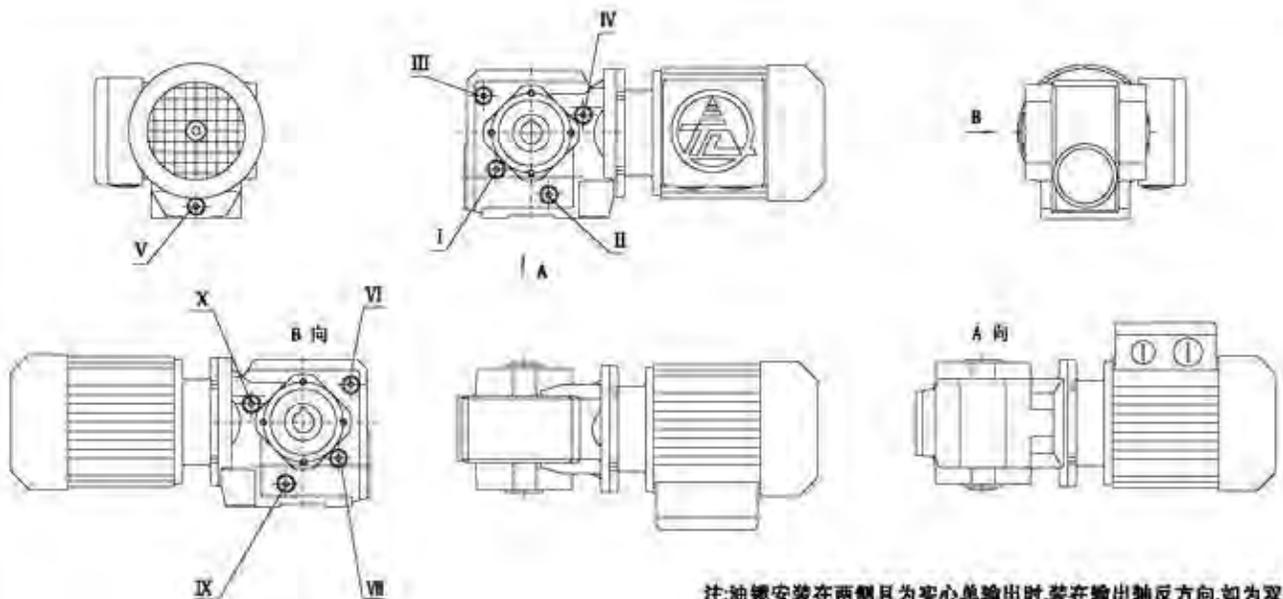


注意：M2、M5、M6安装、盖板方向取IV孔的高油位
 油镜安装在两侧且为实心单轴出时，装在输出轴反方向，如为双出轴或是空心轴则安装在A面

安装方式 孔位顺序	M1	M2	M3	M4	M5	M6
通气孔	IV	I	II	V	VI	II
油镜孔	I/VI	IV	II/VI	II/IX	IV	IV
放油孔	II	V	IV	I	II	IX

所有M4安装，有条件通气孔钻在直联电机上

TSA38 TSF38



注：油镜安装在两侧且为实心单轴出时，装在输出轴反方向，如为双出轴或是空心轴则安装在A面

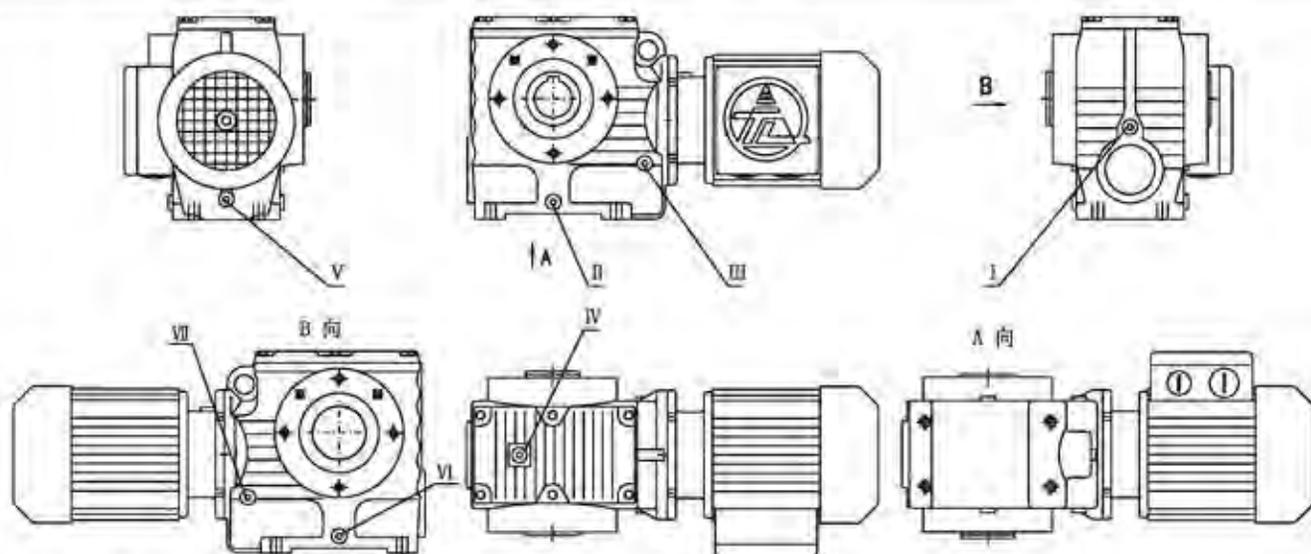
安装方式 孔位顺序	M1	M2	M3	M4	M5	M6
通气孔	II	II	V	V	VI	II
油镜孔	I/VI	II/IX	I/VI	IV/X	V	V
放油孔	V	V	II	II	II	VI

所有M4安装，有条件通气孔钻在直联电机上

四大系列通气孔、油镜孔（溢油孔）放油孔位置图
Location of four series's Blowhole, oil immersion lens, drain hole

TSA48~TSA58

TSF48~TSF58



注意：M2安装、盖板方向取IV孔的高油位

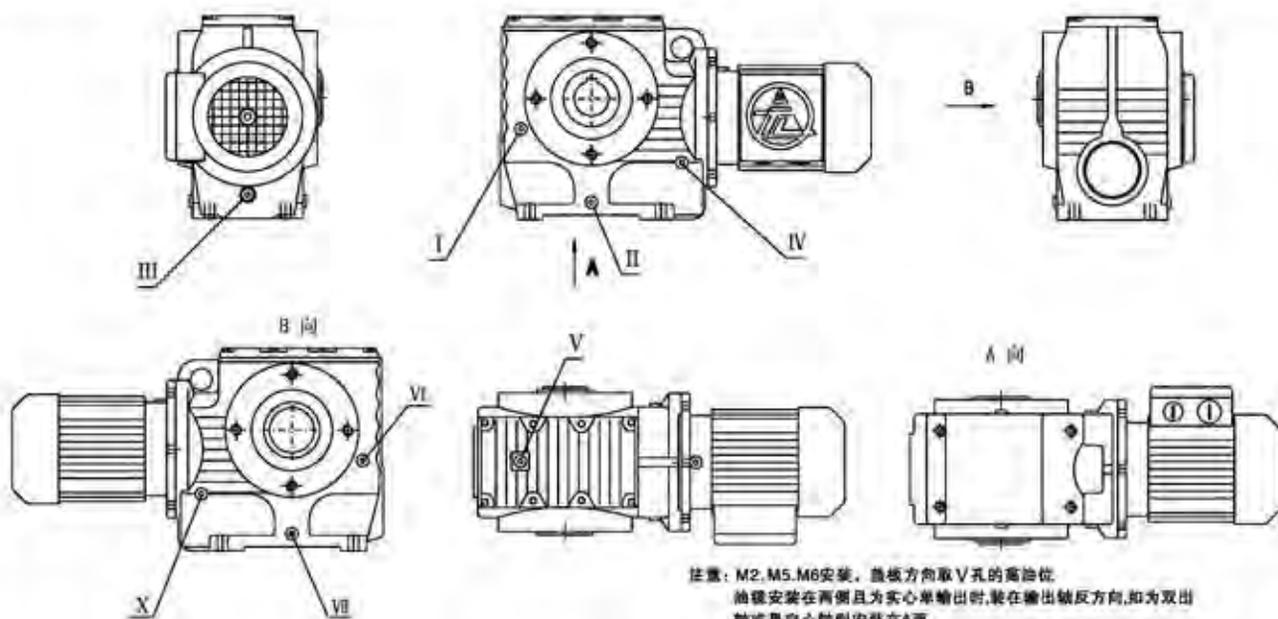
油镜安装在两侧且为实心单输出时，装在输出轴反方向，如为双输出或是空心轴则安装在A面

安装方式 孔位顺序	M1	M2	M3	M4	M5	M6
通气孔	IV	I	II	V	VI	II
油镜孔	I	IV	III/VII	III/VI	IV	IV
放油孔	II	V	IV	I	II	VI

所有M4安装，有条件通气孔钻在直联电机上

TSA68~TSA98

TSF68~TSF98



注意：M2、M5、M6安装，盖板方向取V孔的高油位

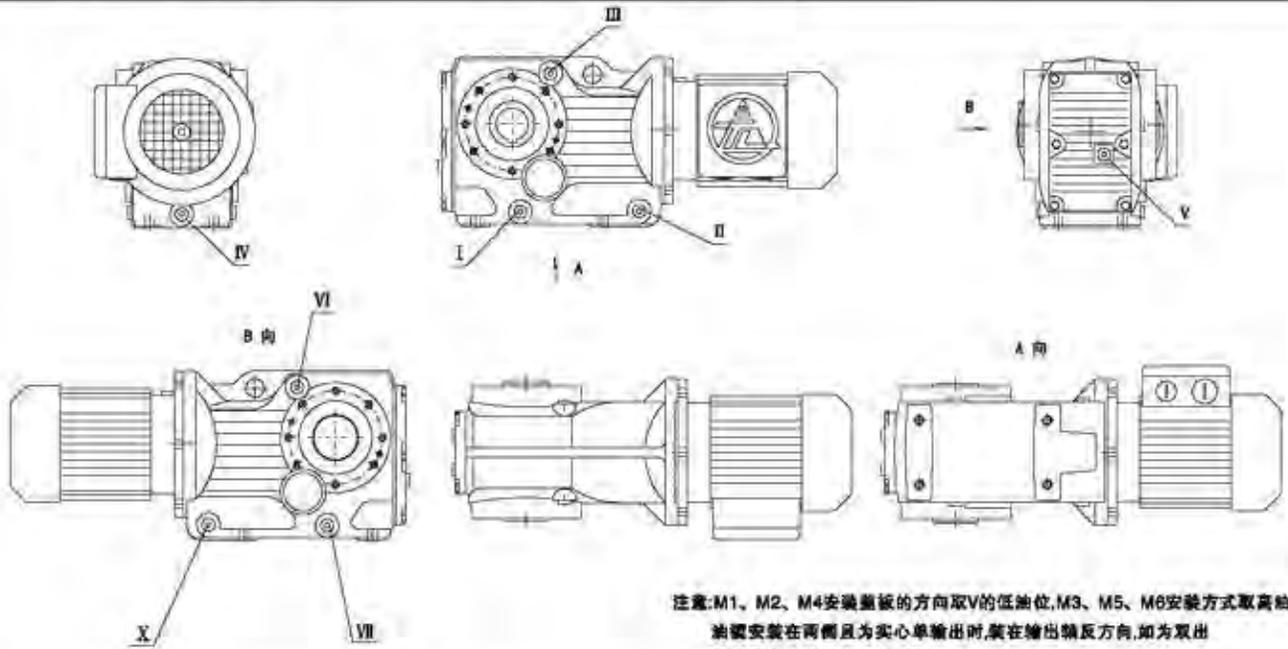
油镜安装在两侧且为实心单输出时，装在输出轴反方向，如为双输出或是空心轴则安装在A面

安装方式 孔位顺序	M1	M2	M3	M4	M5	M6
通气孔	V	I	II	III	VI	I
油镜孔	I/VI	V	IV/X	IV/X	V	V
放油孔	II	II	V	I	I	VI

所有M4安装，有条件通气孔钻在直联电机上

TKA38~TKA48

TKF38~TKF48



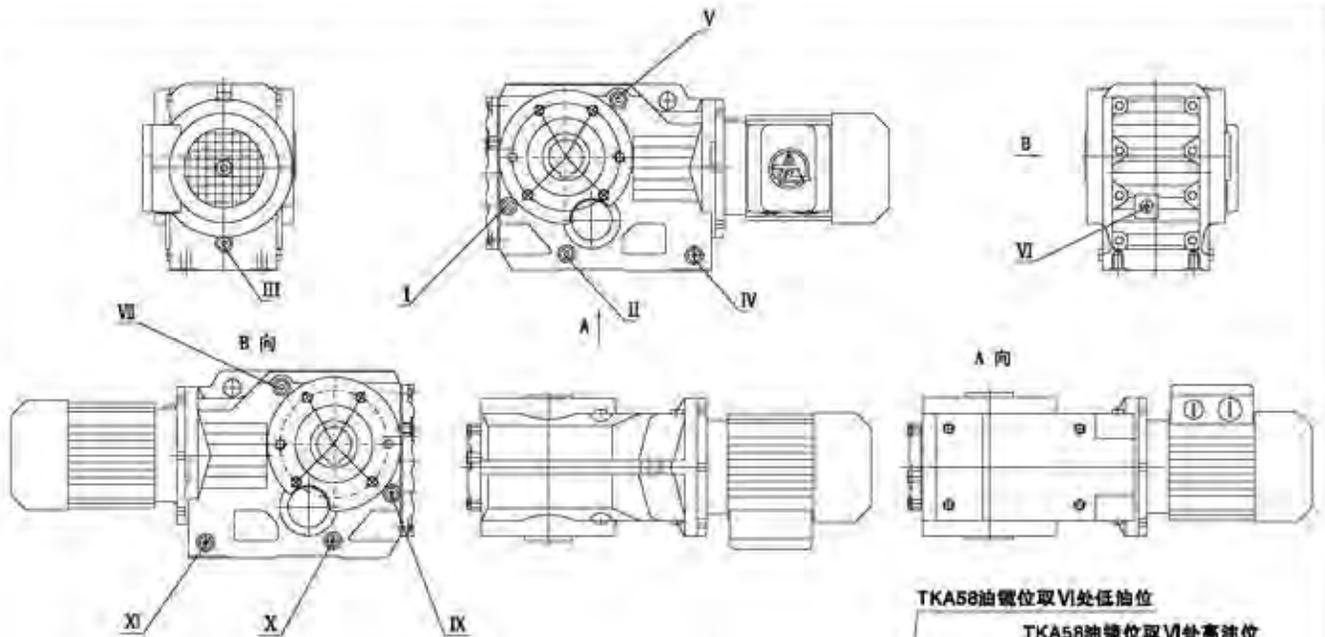
注意: M1、M2、M4安装盖板的方向取V的低油位, M3、M5、M6安装方式取高油位;
油镜安装在两侧且为实心单输出时,装在输出轴反方向,如为双输出或空心轴则安装在A面

安装方式 孔位顺序	M1	M2	M3	M4	M5	M6
通气孔	II	V	II	IV	VI	I
油镜孔	V	I/VI	V	II/X	V	V
放油孔	II	IV	II	V	II	X

所有M4安装,有条件通气孔钻在直联电机上

TKA58~TKA88

TKF58~TKF88



注意: M5、M6安装,盖板方向取VI孔的高油位
油镜安装在两侧且为实心单输出时,装在输出轴反方向,如为双输出或空心轴则安装在A面

所有M4安装,有条件通气孔钻在直联电机上

TKA58油镜位取VI处低油位

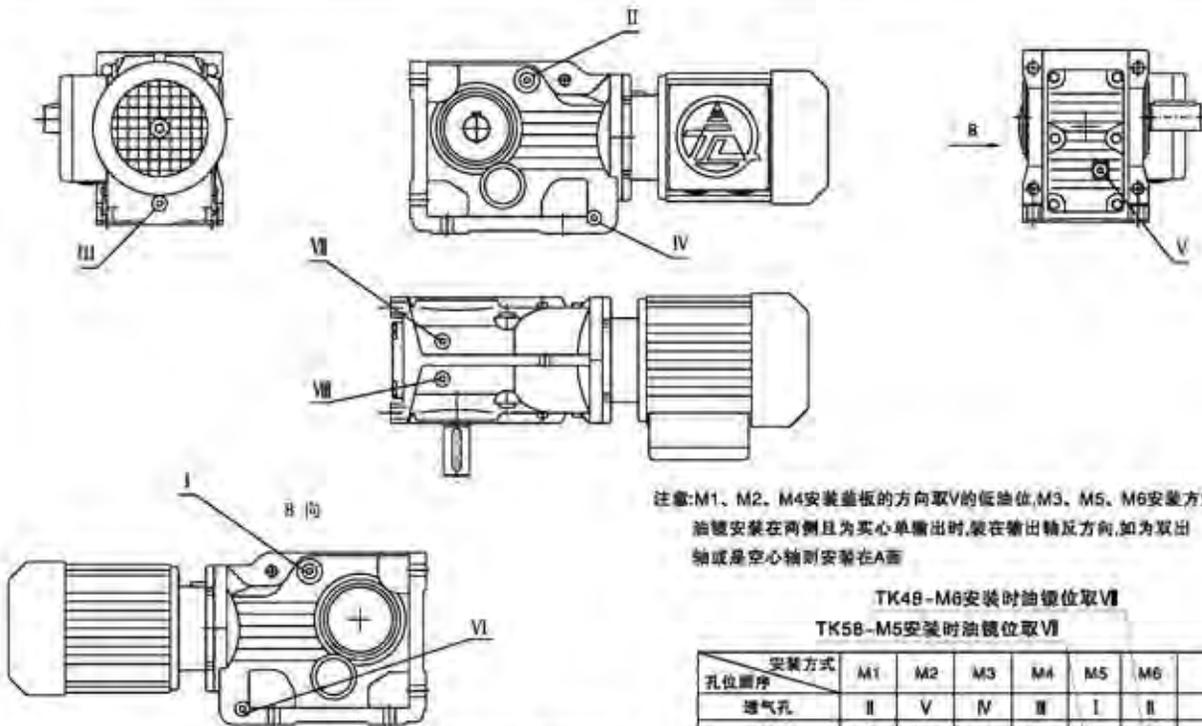
TKA58油镜位取VI处高油位

安装方式 孔位顺序	M1	M2	M3	M4	M5	M6
通气孔	V	I	IV	II	IX	I
油镜孔	I/IX	II/X	I/IX	IV/X	VI	VI
放油孔	IV	II	V	VI	IV	XI

四大系列通气孔、油镜孔（溢油孔）放油孔位置图
Location of four series's Blowhole、oil immersion lens、drain hole



TK38~TK58 TKAB38~TKAB58



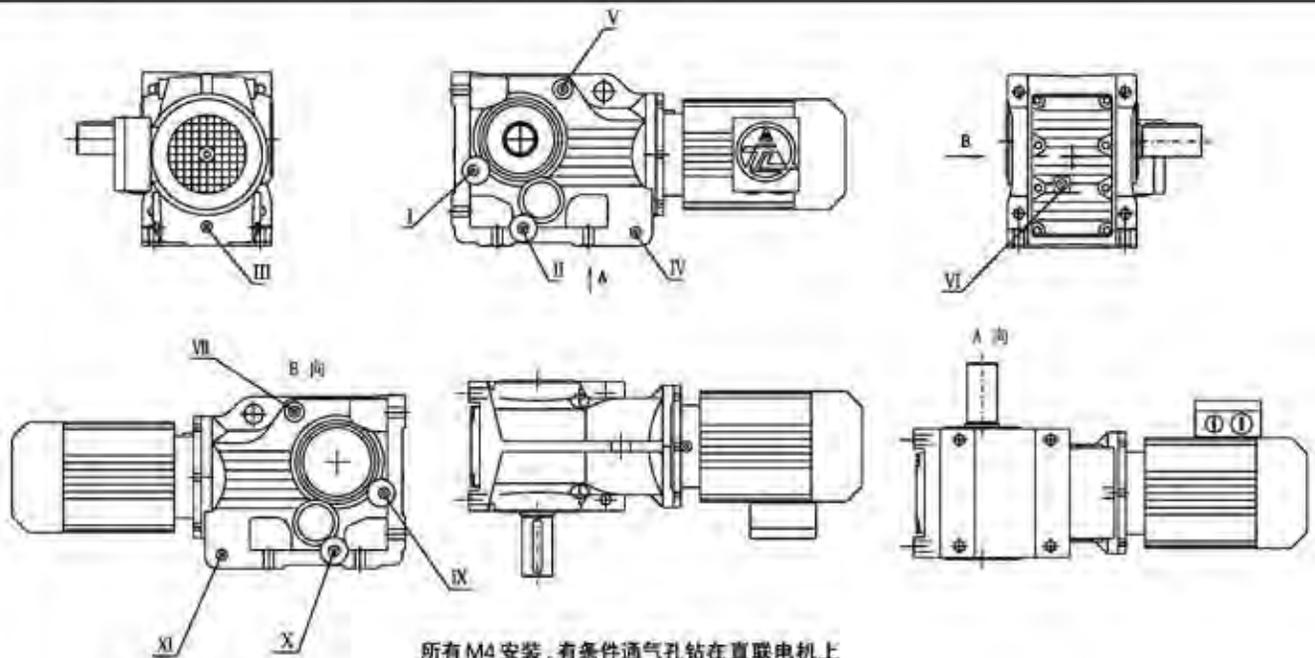
注意:M1、M2、M4安装盖板的方向取V的低油位,M3、M5、M6安装方式取高油位;
油镜安装在两侧且为实心单输出时,装在输出轴反方向,如为双输出或是空心轴则安装在A面

TK48-M6安装时油镜位取VII
TK58-M5安装时油镜位取VII

安装方式 孔位顺序	M1	M2	M3	M4	M5	M6
通气孔	II	V	IV	III	I	II
油镜孔	V	I/II	V	IV/VI	V	V
放油孔	IV	II	II	V	IV	VI

所有M4安装,有条件通气孔钻在直联电机上

TK68~TK88 TKAB68~TKAB88



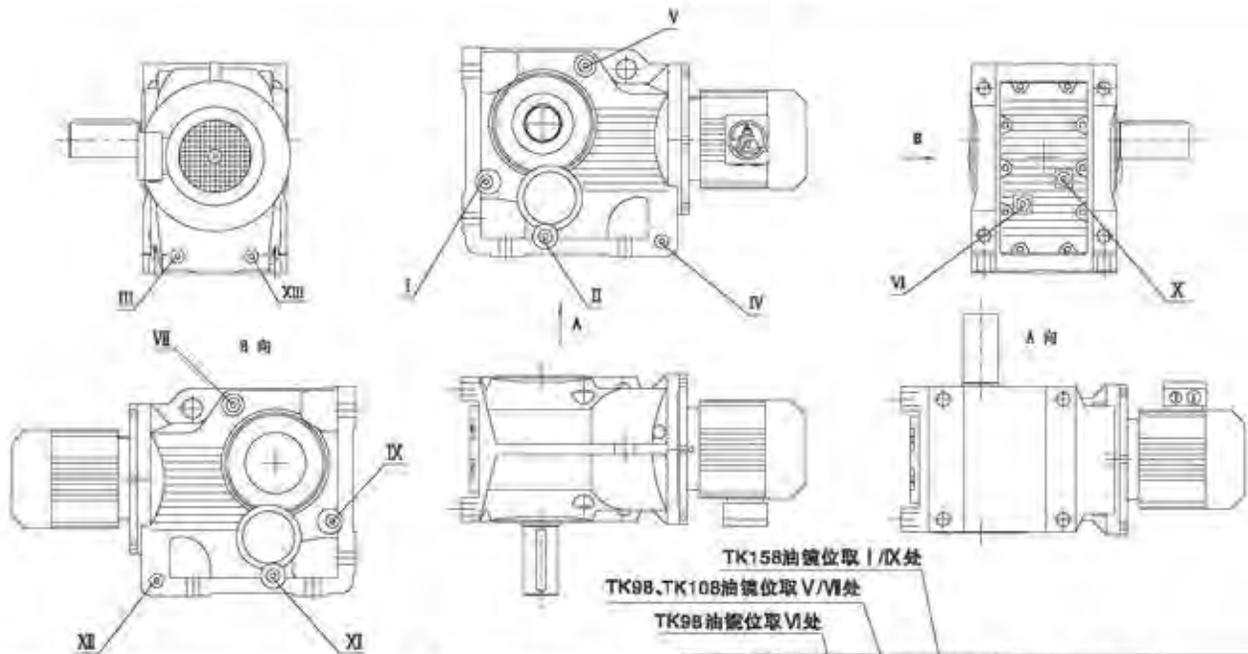
注意:M1、M2、M4安装盖板的方向取VI的低油位,M3、M5、M6安装方式取高油位;
油镜安装在两侧且为实心单输出时,装在输出轴反方向,如为双输出或是空心轴则安装在A面

安装方式 孔位顺序	M1	M2	M3	M4	M5	M6
通气孔	V	I	IV	III	VI	V
油镜孔	I/IX	II/X	VI	IV/XI	VI	VI
放油孔	IV	III	V	VI	IV	XI

所有M4安装,有条件通气孔钻在直联电机上

TK98~TK158

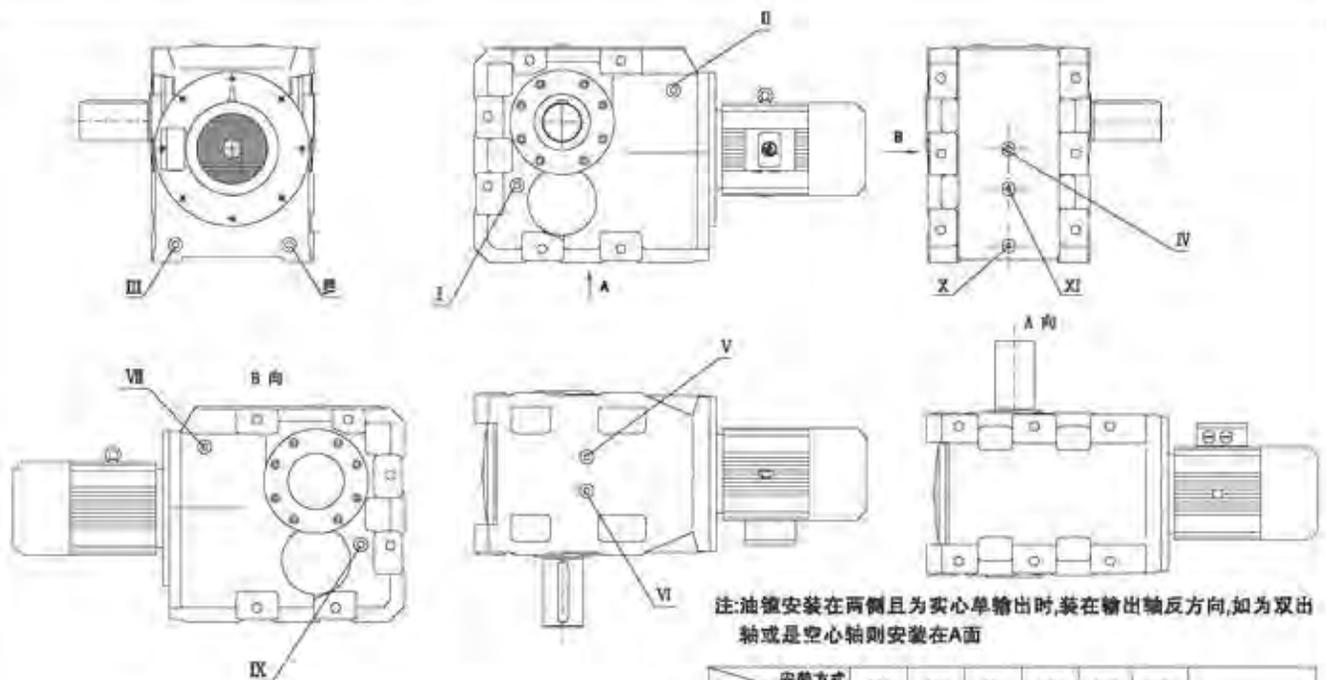
TKA98~TKA158



注意:M1、M2、M4安装盖板的方向取VI的低油位,M3、M5、M6安装方式取高油位;
 油镜安装在两侧且为实心单轴输出时,装在输出轴反方向,如为双出
 轴或是空心轴则安装在A面
 所有M4安装,有条件通气孔钻在直联电机上

安装方式	M1	M2	M3	M4	M5	M6
通气孔	V	I	II/XI	II	IX	I
油镜孔	X	II/XI	VI	IV/XI	XII	II
放油孔	IV	II	V	I	IV	XI

TK168~TK188



注:油镜安装在两侧且为实心单轴输出时,装在输出轴反方向,如为双出
 轴或是空心轴则安装在A面

所有M4安装,有条件通气孔钻在直联电机上

安装方式	M1	M2	M3	M4	M5	M6
通气孔	V	I	II	II	IX	I
油镜孔	IV	V	I/IX	II/VI	III	II
放油孔	II	II	V	IV	II	VI

型号表示方法 / Type Designations

系列类型	传动级数	输出轴结构形式	安装方式	规格代号	公称传动比	装配布置形式	减速机附件	输入轴旋转方向	电机功率、级数、接线盒位置
TH 2 S H 10-12.5-A -70- CW-Y15-4P-I									
TB 2 S H 10-12.5-A -70- CW-Y15-4P-I									
Type	Number of stages	Output shaft design	Mounting position	Size	Nominal ratio	Design	Gearbox accessories	Direction of rotation of input shaft	Motor power, pole, terminal box position
系列类型: TH 平行轴 TB 直交轴	传动级数: 1 一级 2 二级 3 三级 4 四级	输出轴结构形式: S 实心轴 H 空心轴 D 带胀紧盘空心轴 F 法兰轴 K(K,G)带渐开线花键空心轴DIN标(国标)	安装方式: H 卧式带底脚 M 卧式不带底脚 V 立式 E 垂直安装, 输入轴在上部 F 垂直安装, 输入轴在下部	规格代号: 1-26号机座	公称传动比: 公称传动比 i_N (见选型参数表)	装配布置形式: A、B、C、D等 (见TBTH114-115页)	附件(见TBTH121页)	电机(参见四大系列)	输入轴旋转方向: 面对输入轴方向看CW为顺时针方向, CCW为逆时针方向, TH省略
型号说明	上例说明	Explanation of types	Explanation of the above example						
系列类型: TH 平行轴 TB 直交轴	直交轴系列	Types: TH Helical TB Bevel-helical	Bevel-helical						
传动级数: 1 一级 2 二级 3 三级 4 四级	二级传动	Number of stages: 1 1-stage 2 2-stage 3 3-stage 4 4-stage	2-stage						
输出轴结构形式: S 实心轴 H 空心轴 D 带胀紧盘空心轴 F 法兰轴 K(K,G)带渐开线花键空心轴DIN标(国标)	实心轴输出	output shaft design: S Solid shaft H Hollow shaft D Hollow shaft for shrink disk F Flange shaft K(K,G)With the involute spline hollow shaft DIN standard (GB)	Solid shaft output						
安装方式: H 卧式带底脚 M 卧式不带底脚 V 立式 E 垂直安装, 输入轴在上部 F 垂直安装, 输入轴在下部	卧式带底脚安装	Mounting positions: H Horizontal M Horizontal design without feet V Vertical E The vertical installation, the input shaft on the upper F The vertical installation, the input shaft on the lower	Horizontal						
规格代号: 1-26号机座	10号机座号	Size: sizes 1-26	Size10						
公称传动比: 公称传动比 i_N (见选型参数表)	公称传动比 $i_N=12.5$	Nominal ratio: Nominal ratio i_N (see selection table)	Nominal ratio $i_N=12.5$						
装配布置形式: A、B、C、D等 (见TBTH114-115页)	装配布置形式为A (见TBTH114-115页)	Design for assemble: A,B,C,D,etc. (see page TBTH114-115)	Design A (see pageTBTH114-115)						
附件(见TBTH121页)	附件为电机 钟形支座	Gearbox accessories (see pageTBTH121)	Gearbox accessories is input flange						
电机(参见四大系列)	15kW4极电机 接线盒位置I	Motor (see TR,TF,TS,TK series)	15kW,4 pole, terminal box position I						
输入轴旋转方向: 面对输入轴方向看CW为顺时针方向, CCW为逆时针方向, TH省略	输入轴为顺时针方向	Direction of rotation of input shaft: viewing on input shaft: CW-Clockwise, CCW-Counter clockwise, TH's omitted.	Direction of rotation of input shaft is clockwise						
TH....		TB...							

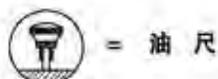


TB、TH系列减速器

要求和说明

- ★ 试车前,必须认真阅读设备使用说明书。按规定加好润滑油。
- ★ 给出的加油量只作为参考值,实际油量应以油尺上的标记为准。
- ★ 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:



= 油尺



= 通气孔



= 加油孔



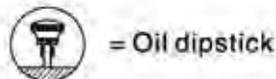
= 放油孔

TB、TH series Gear Units

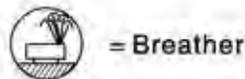
Requirement and Specification

- ★ Prior to commissioning, the operating instructions must be observed. Lubricated it accord with specification.
- ★ The oil volume given is only for reference, the actual oil volume will be object to the mark on the oil dipstick.
- ★ To prevent accidents, all rotating parts should be guarded according to safety regulation.
- ★ Foundation bolts of min. property class 8.8, it has levelling pads and treated with anti-corrosion.
- ★ The attached picture is only example, not require accordance, the noted dimension may be changed. Some parameters may be improved.
- ★ The noted weight is only average value, not require accordance.

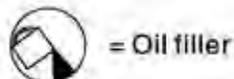
The signs specification is as following:



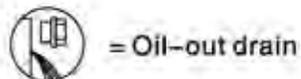
= Oil dipstick



= Breather



= Oil filler



= Oil-out drain



TB、TH系列减速器
选型指南

7) 校核热平衡功率

a. 减速器不带辅助冷却装置, 应满足:

$$P_2 \leq P_G = P_{G1} \times f_6 \times f_7 \times f_8$$

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_7 - 海拔高度系数 (见表7)

f_8 - 立式安装供油系数 (见表8)

b. 减速器带有冷却风扇装置时应满足:

$$P_2 \leq P_G = P_{G2} \times f_6 \times f_7 \times f_8$$

式中:

P_{G2} - 带冷却风扇装置时的热功率

(见热功率表)*

例: 高炉输送碎料的胶带输送机减速器, 电动机转速 $n_1=1350r/min$, 负载功率 (减速器输出功率) $P_2=380kW$, 尖峰载荷 $T_A=5370N \cdot m$, 轴伸仅承受转矩, 每日工作24h, 每小时起动次数少于5次, 每小时工作周期 $ED=40\%$, 环境温度 $t=30^\circ C$, 海拔高度 $\leq 300m$, 安装在露天高台上。要求直交轴型式, 实心输出轴位于减速器右侧 (面对输入轴看即布置形式C), 输入轴转向为顺时针方向 (面对输入轴看)。要求输出转速 $n_2=69.5r/min$, 卧式安装, 强制润滑。

1) 计算传动比

$$i_s = \frac{n_1}{n_2} = \frac{1350}{69.5} = 19.424$$

2) 确定减速器的额定功率

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

查表1 $f_1=1.5$

查表2 $f_2=1$

TB、TH series Gear Units
Guidelines for the Selection

7) Check the power of thermal balance

a. the gear units without auxiliary cooling, should meet:

$$P_2 \leq P_G = P_{G1} \times f_6 \times f_7 \times f_8$$

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_7 - factor for altitude (see table 7)

f_8 - oil supply factor of vertical (see table 8)

b. The gear units with fan cooling should meet.

$$P_2 \leq P_G = P_{G2} \times f_6 \times f_7 \times f_8$$

P_{G2} - thermal capacities with fan cooling (see thermal capacities table)*

Example:

The gear unit of glue feeding machine for conveying flour in blast furnace. The rotate speed of motor $n_1=1350r/min$, loading power (the output power of gear units) $P_2=380kW$, peak loading $T_A=5370N \cdot m$, output shaft only bears torque, it works 24h per day, the starts per hour is less than 5 times, the operating cycle per hour $ED=40\%$, the ambient temperature $t=30^\circ C$, the altitude $\leq 300m$, mounted on high platform in the open. It requires Bevel-helical type, the solid output shaft is located on the right of gear unit (design C viewing on the input shaft), and the direction of rotation of input shaft is clockwise (viewing on input shaft). The output speed $n_2=69.5r/min$, horizontal, forced lubrication.

1) Calculate the transmission ratio

$$i_s = \frac{n_1}{n_2} = \frac{1350}{69.5} = 19.424$$

2) Determine the nominal power rating of the gear unit

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

Check table 1 $f_1=1.5$

Check table 2 $f_2=1$

*)室内小空间 (风速 $< 1.4 m/s$) 和室外 (风速 $\geq 4 m/s$), 请垂询。

*)Calculation consult us when small confined space (wind velocity $< 1.4 m/s$) or in the open (wind velocity $\geq 4 m/s$)

TB、TH系列 减速器

选型指南

查表3 $f_3=1.75$ (由用途可知系重要设备)

查表4 $f_4=1$

则 $P_N = P_2 \times f_1 \times f_2 \times f_3 \times f_4$

$$= 380 \times 1.5 \times 1 \times 1.75 \times 1 = 997.5 \text{ kW}$$

查额定功率表, 选TB型, 3级传动, 规格15
减速器, $i_N=20$, $n_1=1500\text{r/min}$ 对应的额定功率
为1202kW, 折算出1350r/min时的功率为:

$$P_N = 1202 \times \frac{1350}{1500} \approx 1082 \text{ kW, 满足要求。}$$

3) 校核最大扭矩

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

$$= \frac{5370 \times 1350}{9550} \times 0.5 = 380 \text{ kW}$$

则 $P_N = 1082 \text{ kW} > 380 \text{ kW}$

满足要求

4) 校核热功率

按环境温度 $t=30^\circ\text{C}$, 海拔高度为 300m,
无辅助冷却装置, 露天 (热功率需查询)

安装条件查表6, 表7, 表8

查热功率表得:

$P_{01} = 207 \text{ kW}$ (室外, 请垂询)

$f_6 = 1.70$

$f_7 = 1$

$f_8 = 1.05$ (要强制润滑)

$P_0 = P_{01} \times f_6 \times f_7 \times f_8$

$$= 207 \times 1.70 \times 1 \times 1.05 = 369 \text{ kW}$$

$P_2 = 380 \text{ kW} > P_0 = 369 \text{ kW}$

故需加冷却风扇, 满足要求 (计算略)。

故选定TB3SH-15-20-C-CW减速器, 带
冷却风扇。

该减速器轴伸仅承受转矩, 不需校核输出轴
上的附加载荷。

TB、TH series Gear Units

Guidelines for the Selection

Check table 3 $f_3=1.75$ (acc. to the purpose it
an be found the significant equipment)

Check table 4 $f_4=1$

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

$$= 380 \times 1.5 \times 1 \times 1.75 \times 1 = 997.5 \text{ kW}$$

Check the nominal power ratings table, select TB
type, 3-stage transmission, size 15, $i_N=20$, $n_1=1500\text{r/min}$
the correspond nominal power rating is 1202 KW, the
power is

$$P_N = 1202 \times \frac{1350}{1500} \approx 1082 \text{ kW when converting into}$$

1350r/min, it meets the requirement.

3) Check the max. torque:

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

$$= \frac{5370 \times 1350}{9550} \times 0.5 = 380 \text{ kW}$$

$P_N = 1082 \text{ kW} > 380 \text{ kW}$

It meets the requirement.

4) Check the thermal capacities:

The ambient temperature $t=30^\circ\text{C}$, the altitude is
300m, without auxiliary cooling, in the open
For the mounting condition check table 6 and table 7,
and table 8.

Check the thermal capacities table is:

$P_{01} = 207 \text{ kW}$ (in the open, on request)

$f_6 = 1.70$

$f_7 = 1$

$f_8 = 1.05$ (forced lubrication required)

$P_0 = P_{01} \times f_6 \times f_7 \times f_8$

$$= 207 \times 1.70 \times 1 \times 1.05 = 369 \text{ kW}$$

$P_2 = 380 \text{ kW} > P_0 = 369 \text{ kW}$

So cooling fan is needed, meet the requirement,
(calculations omitted)

Select TB3SH-15-20-C-CW gear unit with
cooling fan.

The output shaft of gear unit only bears torque,

Don't need check the additional force on it.



减速器 服务系数

工作机	日工作小时数			工作机	日工作小时数				
	≤0.5h	0.5-10h	>10h		≤0.5h	0.5-10h	>10h		
污水处理	浓缩器(中心传动)	-	-	1.2	金属加工设备	可逆式板坯轧机	-	2.5	2.5
	压滤器	1.0	1.3	1.5		可逆式线材轧机	-	1.8	1.8
	蒸发器	0.8	1.0	1.3		可逆式薄板轧机	-	2.0	2.0
	曝气机	-	1.8	2.0		可逆式中厚板轧机	-	1.6	1.8
	捞渣设备	1.0	1.2	1.3		螺帽调节驱动装置	0.9	1.0	-
	纵向、回转组合捞渣装置	1.0	1.3	1.5	输送机械	斗式输送机	-	1.2	1.5
	预涂过滤器	-	1.1	1.3		绞车	1.4	1.6	1.6
	螺杆泵	-	1.3	1.5		卷扬机	-	1.5	1.8
	水轮机	-	-	2.0		皮带输送机<150kw	1.0	1.2	1.3
	离心泵	1.0	1.2	1.3		皮带输送机≥150kw	1.1	1.3	1.5
	1个活瓣容积式泵	1.3	1.4	1.8		货用电梯*	-	1.2	1.5
	>1个活瓣容积式泵	1.2	1.4	1.5		客用电梯*	-	1.5	1.8
挖泥机	斗式输送机	-	1.6	1.6		刮板输送机	-	1.2	1.5
	倾卸装置	-	1.3	1.5		自动扶梯	-	1.2	1.4
	Carleypillar行走机构	1.2	1.6	1.8		轨道行走机构	-	1.5	-
	斗轮式挖泥机(用于渣拾)	-	1.7	1.7	变频装置	-	1.8	2.0	
	斗轮式挖泥机(用于粗料)	-	2.2	2.2	起重机械	往复式压缩机	-	1.8	1.9
	切碎机	-	2.2	2.2		回转机构*	1	1.4	1.8
行走机构*	-	1.4	1.8	俯仰机构		1	1.25	1.5	
弯板机*	-	1.0	1.0	行走机构		1.5	1.75	2	
挤压机	-	-	1.6	提升机构*		1	1.25	1.5	
化学工业	调整机	-	1.8	1.8	转臂式起重机*	1	1.25	1.6	
	橡胶研磨机	-	1.5	1.5	冷却塔	冷却塔风扇	-	-	2.0
	冷却圆筒	-	1.3	1.4		风机(轴流和离心式)	-	1.4	1.5
	混料机,用于均匀介质	1.0	1.3	1.4	蔗糖生产	甘蔗切碎机*	-	-	1.7
	混料机,用于非均匀介质	1.4	1.6	1.7		甘蔗碾磨机	-	-	1.7
	搅拌机,用于密度均匀介质	1.0	1.3	1.5	甜菜糖生产	甜菜粉碎机	-	-	1.2
	搅拌机,用于非均匀介质	1.2	1.4	1.6		榨取机,机械致冷机,蒸蜜机	-	-	1.4
	搅拌机,用于不均匀气体吸收	1.4	1.6	1.8		甜菜清洗机	-	-	1.5
	烘炉	1.0	1.3	1.5	造纸机械	甜菜切碎机	-	-	1.5
	离心机	1.0	1.2	1.3		各种类型**	-	1.8	2.0
金属加工设备	翻板机	1.0	1.0	1.2	碎浆机驱动装置	2.0	2.0	2.0	
	推钢机	1.0	1.2	1.2	离心式压缩机	-	1.4	1.5	
	绕线机	-	1.6	1.6	索道缆车	运货索道	-	1.3	1.4
	冷床横移架	-	1.5	1.5		往返系统空中索道	-	1.6	1.8
	辊式矫直机	-	1.6	1.6	T型杆升降机	-	1.3	1.4	
	辊道(连续式)	-	1.5	1.5	连续索道	-	1.4	1.6	
	辊道(间歇式)	-	2.0	2.0	水泥工业	混凝土搅拌机	-	1.5	1.5
	可逆式轧管机	-	1.8	1.8		破碎机*	-	1.2	1.4
	剪切机(连续式)*	-	1.5	1.5		回转窑	-	-	2.0
	剪切机(曲柄式)*	1.0	1.0	1.0		管式磨粉机	-	-	2.0
	连铸机驱动装置	-	1.4	1.4		选粉机	-	1.6	1.6
	可逆式开坯机	-	2.5	2.5		碾压机	-	-	2.0

工作机额定功率 P_2 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 f₁

Driven machines		Effective daily operating period under load in hours			Driven machines		Effective daily operating period under load in hours		
		≤ 0.5h	0.5-10h	>10h			≤ 0.5h	0.5-10h	>10h
Waste water treatment	Thickeners(central drive)	-	-	1.2	Metal working mills	Reversing slabbing mills	-	2.5	2.5
	Filter presses	1.0	1.3	1.5		Reversing wire mills	-	1.8	1.8
	Flocculation apparatus	0.8	1.0	1.3		Reversing sheet mills	-	2.0	2.0
	Aerators	-	1.8	2.0		Reversing plate mills	-	1.8	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	Conveyors	Bucket conveyors	-	1.2	1.5
	Pre-thickeners	-	1.1	1.3		Hauling winches	1.4	1.6	1.6
	Screw pumps	-	1.3	1.5		Hoists	-	1.5	1.8
	Water turbines	-	-	2.0		Belt conveyors <150 kw	1.0	1.2	1.3
	Centrifugal pumps	1.0	1.2	1.3		Belt conveyors ≥150 kw	1.1	1.3	1.5
	1 piston positive-displacement pumps	1.3	1.4	1.8		Goods lifts *	-	1.2	1.5
>1 piston positive-displacement pumps	1.2	1.4	1.5	Passenger lifts *		-	1.5	1.8	
Dredgers	Bucket conveyors	-	1.6	1.6		Apron conveyors	-	1.2	1.5
	Dumping devices	-	1.3	1.5		Escalators	-	1.2	1.4
	Caterpillar travelling gears	1.2	1.6	1.8		Rail travelling gears	-	1.5	-
	Bucket wheel excavators as pick-up	-	1.7	1.7	Frequency converters	-	1.8	2.0	
	Bucket wheel excavators for primitive material	-	2.2	2.2	Reciprocating compressors	-	1.8	1.9	
	Cutter heads	-	2.2	2.2	Cranes	Slowing gears *	1	1.4	1.8
Traversing gears *	-	1.4	1.8	Luffing gears		1	1.25	1.5	
Plate bending machines *	-	1.0	1.0	Travelling gears		1.5	1.75	2	
Chemical industry	Extruders	-	-	1.6		Hoisting gears *	1	1.25	1.5
	Dough mills	-	1.8	1.8		Derricking jib cranes *	1	1.25	1.6
	Rubber calendars	-	1.5	1.5	Cooling towers	Cooling tower fans	-	-	2.0
	Cooling drums	-	1.3	1.4		Blowers(axial and radial)	-	1.4	1.5
	Mixers for uniform media	1.0	1.3	1.4	Cane sugar production	Cane knives *	-	-	1.7
	Mixers for non-uniform media	1.4	1.6	1.7		Cane mills	-	-	1.7
	Agitators for media with uniform density	1.0	1.3	1.5	Beet sugar production	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	Paper machines	Sugar beet cutters	-	-	1.5
	Centrifuges	1.0	1.2	1.3		Of all-kind **	-	1.8	2.0
Metal working mills	Plate tilters	1.0	1.0	1.2	Cableways	Pulper drives	2.0	2.0	2.0
	Ingot pushers	1.0	1.2	1.2		Centrifugal compressors	-	1.4	1.5
	Winding machines	-	1.6	1.6	Material ropeways	-	1.3	1.4	
	Cooling bed transfer frames	-	1.5	1.5	To-and fro system aerial ropeways	-	1.6	1.8	
	Roller straighteners	-	1.6	1.6	T-bar lifts	-	1.3	1.4	
	Roller tables continuous	-	1.5	1.5	Continuous ropeways	-	1.4	1.8	
	Roller tables intermittent	-	2.0	2.0	Cement industry	Concrete mixers	-	1.5	1.5
	Roller tables Reversing tube mills	-	1.8	1.8		Breakers *	-	1.2	1.4
	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	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 Gear Units
服务系数 Service Factor

表2 原动机系数 f_2
Table 2 Factor for prime mover f_2

电机, 液压马达, 汽轮机 Electric motors, hydraulic motors, turbines	1.0
4-6缸活塞发动机 Piston engines 4-6 cylinders	1.25
1-3缸活塞发动机 Piston engines 1-3 cylinders	1.5

表5 峰值扭矩系数 f_5 Table 5 Peak torque factor f_5

	每小时峰值负荷次数 Load peak per hour			
	1-5	6-30	31-100	>100
单向载荷 Steady direction of load	0.5	0.65	0.7	0.85
交变载荷 Alternating direction of load	0.7	0.95	1.10	1.25

表3 减速器安全系数 f_3
Table 3 Safety factor 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
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	1.25-1.5	1.5-1.75	1.75-2.0

表6 环境温度系数 f_6 Table 6 Thermal factor f_6

不带辅助冷却装置或仅带冷却风扇
Without auxiliary cooling or with fan cooling

环境温度 Ambient temperature	每小时工作周期(ED)百分比% Operating cycle per hour (ED) in %				
	100	80	60	40	20
10°C	1.11	1.31	1.60	2.14	3.64
20°C	1.00	1.18	1.44	1.93	3.28
30°C	0.88	1.04	1.27	1.70	2.89
40°C	0.75	0.89	1.08	1.45	2.46
50°C	0.63	0.74	0.91	1.22	2.07

表4 起动系数 f_4 Table 4 Start factor f_4

每小时起动次数 Starts per hour	$f_1 \times f_2 \times f_5$			
	1	1.25-1.75	2-2.75	≥ 3
	f_4			
≤ 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7 海拔高度系数 f_7 Table 7 Factor for altitude f_7

不带辅助冷却装置或仅带冷却风扇
Without auxiliary cooling or with fan cooling

系数 Factor	海拔高度(m) Altitude (meters)				
	高达 Up to 1000	高达 Up to 2000	高达 Up to 3000	高达 Up to 4000	高达 Up to 5000
f_7	1.0	0.95	0.90	0.85	0.80

表8 立式安装减速器供油系数。对于卧式安装 $f_8=1$; 当采用强制润滑时, $f_8=1.05$
Table 8 Oil supply factors for vertical gear units. For horizontal gear units $f_8=1.0$, and in case of forced lubrication $f_8=1.05$

类型 Type	供油方式 Oil supply	规格 1...12 Sizes 1...12				规格 13...18 Sizes 13...18			
		不带辅助冷却装置 Without auxiliary cooling	带冷却风扇 With fan cooling	带冷却盘管 With cooling coil	带风扇和冷却盘管 With fan and cooling coil	不带辅助冷却装置 Without auxiliary cooling	带冷却风扇 With fan cooling	带冷却盘管 With cooling coil	带风扇和冷却盘管 With fan and cooling coil
TH2.V TH3.V TH4.V	浸油润滑 Dip lubrication	0.95	....	....	....	....	....	....	....
	强制润滑 Forced lubrication	1.15	....	....	....	1.15	....	....	....
TB2.V TB3.V TB4.V	浸油润滑 Dip lubrication	0.95	0.95	....	....	....	....	....	....
	强制润滑 Forced lubrication	1.15	1.10	....	....	1.15	1.10	....	....

....) 根据用户要求供货) On request

表9 功率利用率系数 f_9 Table 9 Utilization factor f_9

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

平行轴减速器

额定功率

类型 TH1...

规格 1...19

Helical Gear Units

Nom. Power Ratings

Type TH1...

Sizes 1...19

i _N	n ₁ r/min	n ₂ r/min	额定功率 P _N													kW			
			规格																
			1	3	5	7	9	11	13	15	17	19							
1.25	1500	1200	99	327	880	1671	2702												
	1000	800	66	218	586	1114	1801												
	750	600	50	163	440	836	1351												
1.4	1500	1071	93	303	807	1559	2501												
	1000	714	62	202	538	1039	1667												
	750	536	47	152	404	780	1252												
1.6	1500	938	85	285	737	1395	2318	3929											
	1000	625	57	190	491	929	1545	2618	4123										
	750	469	43	142	368	697	1159	1964	3094										
1.8	1500	833	79	209	672	1326	2128	3611											
	1000	556	53	140	448	885	1421	2410	3860										
	750	417	40	105	336	664	1065	1808	2895										
2	1500	750	73	196	644	1217	1963	3353											
	1000	500	49	131	429	812	1309	2236	3571										
	750	375	37	98	322	609	982	1677	2678	4751									
2.24	1500	670	67	175	589	1087	1754	3087											
	1000	446	45	117	392	724	1168	2055	3283										
	750	335	34	88	295	544	877	1543	2466	4280									
2.5	1500	600	63	163	528	974	1571	2764											
	1000	400	42	109	352	649	1047	1843	3016	4607									
	750	300	31	82	264	487	785	1382	2262	3455									
2.8	1500	536	56	152	471	836	1330	2470											
	1000	357	37	101	314	557	886	1645	2692	4224									
	750	268	28	76	236	418	665	1235	2021	3171	4798								
3.15	1500	476	50	135	419	758	1221	2088	3409										
	1000	317	33	90	279	505	813	1391	2270	3850									
	750	238	25	67	209	379	611	1044	1705	2891	4311								
3.55	1500	423	44	124	368	687	1103	1936	3083										
	1000	282	30	83	245	458	735	1290	2055	3484									
	750	211	22	62	183	342	550	988	1538	2607	3822								
4	1500	375	39	110	330	609	982	1728	2780										
	1000	250	26	73	220	406	654	1152	1853	3194	4529								
	750	188	20	55	165	305	492	868	1394	2402	3406	4823							
4.5	1500	333	29	77	234	481	746	1395	2008	3557									
	1000	222	19	51	156	321	497	930	1338	2371	3394								
	750	167	14	38	117	241	374	699	1007	1784	2553	3777							
5	1500	300	25	66	198	377	644	1059	1712	2790									
	1000	200	16	44	132	251	429	706	1141	1860	2597	3644							
	750	150	12	33	99	188	322	529	856	1395	1948	2733							
5.6	1500	268	17	56	168	320	491	892	1454	2371									
	1000	179	12	37	112	214	328	596	971	1584	2212	2812							
	750	134	9	28	84	160	248	448	727	1186	1858	2105							

TB
TH
09

卧式安装减速器要求强制润滑

Forced lubrication required on horizontal gear units

选型参数表
Selection Table



平行轴减速器
热功率
类型 TH1...
规格 1...19
 $n_1=1500 \text{ min}^{-1}$

Helical Gear Units
Thermal Capacities
Type TH1...
Sizes 1...19
 $n_1=1500 \text{ min}^{-1}$

		热功率 P_G						Thermal capacities P_G						kW	
i_N		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling													
		规格						Sizes							
		1	3	5	7	9	11	13	15	17	19				
1.25	P_{G1}	44.3	*	*	*	*									
	P_{G2}		210	372	408	*									
1.4	P_{G1}	42.8	*	*	*	*									
	P_{G2}		212	392	447	375									
1.6	P_{G1}	41.7	*	*	*	*	*	*							
	P_{G2}		213	420	500	495	*	*							
1.8	P_{G1}	41.5	*	*	*	*	*	*							
	P_{G2}		241	435	554	575	*	*							
2	P_{G1}	40.9	*	*	*	*	*	*	*	*	*	*	*	*	*
	P_{G2}		234	427	553	590	509	*	*	*	*	*	*	*	*
2.24	P_{G1}	43.3	*	*	*	*	*	*	*	*	*	*	*	*	*
	P_{G2}		227	422	544	620	631	*	*	*	*	*	*	*	*
2.5	P_{G1}	41.1	*	*	*	*	*	*	*	*	*	*	*	*	*
	P_{G2}		211	405	525	614	676	*	*	*	*	*	*	*	*
2.8	P_{G1}	39.7	50	*	*	*	*	*	*	*	*	*	*	*	*
	P_{G2}		199	384	553	658	705	*	*	*	*	*	*	*	*
3.15	P_{G1}	37.7	63.8	*	*	*	*	*	*	*	*	*	*	*	*
	P_{G2}		200	415	702	828	1055	1033	816	*	*	*	*	*	
3.55	P_{G1}	34.2	59.8	*	*	*	*	*	*	*	*	*	*	*	*
	P_{G2}		183	407	649	778	998	1014	860	678	*				
4	P_{G1}	38.1	56.2	85.1	*	*	*	*	*	*	*	*	*	*	*
	P_{G2}		166	374	591	677	964	1012	938	821	623				
4.5	P_{G1}	38.1	66.4	106	135	*	*	*	*	*	*	*	*	*	*
	P_{G2}		180	389	611	795	994	1193	1261	1192	1069				
5	P_{G1}	34.4	62.5	111	151	169	*	*	*	*	*	*	*	*	*
	P_{G2}		165	373	599	738	1020	1227	1395	1560	1526				
5.6	P_{G1}	33.9	56	98.8	136	163	*	*	*	*	*	*	*	*	*
	P_{G2}		146	330	535	704	967	1104	1286	1433	1604				

TB
TH

10

* 敬请垂询

** 表中数值按:

每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request

** Values refer to:

Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

平行轴减速器
热功率
类型 TH1...
规格 1...19
 $n_1=1000 \text{ min}^{-1}$

Helical Gear Units
Thermal Capacities
Type TH1...
Sizes 1...19
 $n_1=1000 \text{ min}^{-1}$

i_N	热功率 P_G Thermal capacities P_G kW												
	热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling												
	规格						Sizes						
		1	3	5	7	9	11	13	15	17	19		
1.25	P_{G1}	50.6	63.2	*	*	*							
	P_{G2}		187	402	517	538							
1.4	P_{G1}	48.9	65.4	*	*	*							
	P_{G2}		186	409	534	578							
1.6	P_{G1}	47.6	68.6	*	*	*	*	*					
	P_{G2}		183	412	540	630	729	510					
1.8	P_{G1}	47.5	79.9	*	*	*	*	*					
	P_{G2}		205	410	561	655	821	674					
2	P_{G1}	46.8	78.5	104	*	*	*	*	*	*	*	*	*
	P_{G2}		197	397	549	651	852	757	*	*	*	*	*
2.24	P_{G1}	48.4	78	109	*	*	*	*	*	*	*	*	*
	P_{G2}		189	382	520	645	887	851	523	*	*	*	*
2.5	P_{G1}	45.9	72.8	108	*	*	*	*	*	*	*	*	*
	P_{G2}		175	362	494	621	884	888	621	*	*	*	*
2.8	P_{G1}	44.4	69.6	105	133	*	*	*	*	*	*	*	*
	P_{G2}		164	340	511	649	865	902	707	500	*	*	*
3.15	P_{G1}	42.2	73	127	189	217	*	*	*	*	*	*	*
	P_{G2}		161	348	601	731	1019	1128	1146	1040	*	*	*
3.55	P_{G1}	38.2	67.6	127	178	209	*	*	*	*	*	*	*
	P_{G2}		147	340	553	682	949	1078	1140	1096	*	*	*
4	P_{G1}	34.8	61.9	118	167	189	235	*	*	*	*	*	*
	P_{G2}		134	309	498	585	891	1024	1124	1132	1032	*	*
4.5	P_{G1}	34.8	69.7	129	183	238	267	304	*	*	*	*	*
	P_{G2}		144	316	504	667	872	1107	1289	1307	1274	*	*
5	P_{G1}	31.4	63.9	125	184	228	290	340	*	*	*	*	*
	P_{G2}		131	301	488	608	889	1087	1317	1541	1585	*	*
5.6	P_{G1}	31	57.2	111	166	220	277	311	*	*	*	*	*
	P_{G2}		116	266	435	581	823	978	1195	1416	1665	*	*

* 敬请垂询

** 表中数值按:

每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request

** Values refer to:

Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

选型参数表
Selection Table



平行轴减速器
热功率
类型 TH1...
规格 1...19
 $n_1=750 \text{ min}^{-1}$

Helical Gear Units
Thermal Capacities
Type TH1...
Sizes 1...19
 $n_1=750 \text{ min}^{-1}$

		热功率 P_G						Thermal capacities P_G						kW	
i_N		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling													
		规格						Sizes							
		1	3	5	7	9	11	13	15	17	19				
1.25	P_{G1}	54.2	77.6	*	*	*									
	P_{G2}		163	385	526	594									
1.4	P_{G1}	52.3	78.3	*	*	*									
	P_{G2}		161	386	532	622									
1.6	P_{G1}	50.9	78.3	*	*	*	*	*							
	P_{G2}		157	379	517	642	885	796							
1.8	P_{G1}	50.8	88.1	*	*	*	*	*							
	P_{G2}		174	368	523	641	924	915							
2	P_{G1}	50	85.6	142	*	*	*	*	*	*	*	*	*	*	*
	P_{G2}		167	354	506	629	936	986	*	*	*	*	*	*	*
2.24	P_{G1}	46.1	83.3	140	*	*	*	*	*	*	*	*	*	*	*
	P_{G2}		159	337	472	608	931	1025	812	*	*	*	*	*	*
2.5	P_{G1}	43.8	77	134	*	*	249	*	*	*	*	*	*	*	*
	P_{G2}		147	317	444	579	907	1031	900	*	*	*	*	*	*
2.8	P_{G1}	42.3	72.8	127	180	*	*	*	*	*	*	*	*	*	*
	P_{G2}		137	296	455	598	870	1012	962	789	*	*	*	*	*
3.15	P_{G1}	40.2	72.9	137	213	263	*	*	*	*	*	*	*	*	*
	P_{G2}		133	293	514	636	928	1085	1203	1159	*	*	*	*	*
3.55	P_{G1}	36.4	67.2	135	199	249	*	*	*	*	*	*	*	*	*
	P_{G2}		121	286	471	590	858	1026	1176	1194	*	*	*	*	*
4	P_{G1}	33.2	61.2	124	182	217	318	*	*	*	*	*	*	*	*
	P_{G2}		110	259	421	502	794	953	1120	1181	1131	*	*	*	*
4.5	P_{G1}	33.2	67.9	131	191	257	318	414	*	*	*	*	*	*	*
	P_{G2}		118	262	421	563	756	989	1205	1260	1268	*	*	*	*
5	P_{G1}	29.9	61.7	125	186	238	324	414	*	*	*	*	*	*	*
	P_{G2}		107	248	404	508	740	947	1187	1419	1493	*	*	*	*
5.6	P_{G1}	29.5	55.2	111	168	228	309	378	*	*	*	*	*	*	*
	P_{G2}		95.2	219	361	485	701	852	1077	1304	1568	*	*	*	*

* 敬请垂询

** 表中数值按:

每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request

** Values refer to:

Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

选型参数表
Selection Table



平行轴减速器
热功率
类型 TH2...
规格 3...28
 $n_1=1500 \text{ min}^{-1}$

Helical Gear Units
Thermal Capacities
Type TH2...
Sizes 3...28
 $n_1=1500 \text{ min}^{-1}$

		热功率 P_G										Thermal capacities P_G										kW		
i_N		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling																						
		规格										Sizes												
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23—28		
6.3	P_{G1}	40.4	48.5	48.8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	P_{G2}		132	172		256		322		428		442		*		*		*		*		*	*	
7.1	P_{G1}	41.7	51.6	53.9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	P_{G2}		137	177		252		323		453		493		338	*	*	*	*	*	*	*	*	*	
8	P_{G1}	40.3	51.4	56.4	59.2	64.9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	P_{G2}		132	175	191	249	276	322	328	469	501	537	580	422	390	*	*	*	*	*	*	*	*	
9	P_{G1}	38.1	52.4	60.5	67.8	73.2	77.2	86.3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	P_{G2}		129	174	198	248	275	324	333	484	553	600	666	541	530	584	542	*	*	*	*	*	*	
10	P_{G1}	41.4	51.4	61.1	70.9	77.7	84.2	96	95.3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	P_{G2}		123	165	196	241	273	320	335	489	577	631	715	612	617	710	691	*	*	*	*	*	*	
11.2	P_{G1}	39.1	50.4	61.2	72.2	83.4	88	99.9	103	119	*	*	*	*	*	*	*	*	*	*	*	*	*	
	P_{G2}		118	160	191	246	267	309	331	509	572	674	738	648	669	784	787	*	*	*	*	*	*	
12.5	P_{G1}	38.3	49.5	62.1	70.5	85.6	88.3	104	106	135	*	*	*	*	*	*	*	*	*	*	*	*	*	
	P_{G2}		113	157	181	242	258	305	322	512	562	660	742	685	691	851	840	*	*	*	*	*	*	
14	P_{G1}	35.9	47.6	60.4	69.5	81.7	93.2	106	108	142	153	*	*	*	*	*	*	*	*	*	*	*	*	
	P_{G2}		108	150	174	224	263	298	310	494	583	647	774	686	726	875	906	*	*	*	*	*	*	
16	P_{G1}	33.1	44.1	57.8	69.8	78.6	94.9	104	110	144	169	160	193	*	*	*	*	*	*	*	*	*	*	
	P_{G2}		98.9	140	169	210	257	281	303	469	583	603	751	710	721	873	919	*	*	*	*	*	*	
18	P_{G1}	34	42.7	56.4	67.6	77.3	89.8	101	111	143	175	181	209	170	*	*	*	*	*	*	*	*	*	
	P_{G2}		94.4	134	162	202	237	266	296	443	560	621	731	690	748	888	919	*	*	*	*	*	*	
20	P_{G1}	31.7	42	53.3	64	73.1	86.3	100	107	142	170	179	202	179	182	*	*	*	*	*	*	*	*	
	P_{G2}		92.1	126	150	188	222	257	278	428	525	586	670	665	712	882	915	*	*	*	*	*	*	
22.4	P_{G1}	31.5	38.9	49.7	61.3	70.7	82.4	92.6	101	133	159		206		179		*	*	*		*	*		
	P_{G2}		85.2	116	144	181	213	239	261	397	489		673		676		893	*	*		*	*		
25	P_{G1}				57.6		77.2		98.9		155		195											
	P_{G2}				134		197		252		470		627											
28	P_{G1}				54.1		75.5		93.4		150													
	P_{G2}				125		190		235		439													

* 敬请垂询

** 表中数值按:

每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request

** Values refer to:

Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

平行轴减速器
热功率
类型 TH2...
规格 3...28
 $n_1=1000 \text{ min}^{-1}$

Helical Gear Units
Thermal Capacities
Type TH2...
Sizes 3...28
 $n_1=1000 \text{ min}^{-1}$

		热功率 P_G										Thermal capacities P_G										kW	
i_N		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling																					
		规格											Sizes										
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23—28	
6.3	P_{G1}	44.1	54.1	66.5		90.3		116		134		*		*		*		*		*		*	
	P_{G2}		106	143		221		293		450		579		563		625		*		*		*	
7.1	P_{G1}	42.2	56.1	69		89.8		117		145		*		*	*	*	*	*	*	*	*	*	
	P_{G2}		109	146		214		288		454		588		591	589	683	659	*	*	*	*	*	
8	P_{G1}	40.8	54.4	68.3	74.5	89.1	99	118	120	152	161	*	*	*	*	*	*	*	*	*	*	*	
	P_{G2}		104	142	157	208	235	279	290	449	509	591	656	613	620	733	719	*	*	*	*	*	
9	P_{G1}	38.5	53.4	67.9	78.1	89.3	100	120	124	160	182	195	212	*	*	*	*	*	*	*	*	*	
	P_{G2}		101	139	159	202	228	272	283	437	520	594	672	635	655	786	789	*	*	*	*	*	
10	P_{G1}	39.6	51.1	65.4	77.4	88.3	100	119	125	164	193	209	234	200	198	*	*	*	*	*	*	*	
	P_{G2}		95.7	131	156	193	222	262	278	424	516	587	673	640	668	812	830	*	*	*	*	*	
11.2	P_{G1}	37.5	49.3	63.4	76	90.7	99	116	124	173	195	226	247	218	222	229	223	*	*	*	*	*	
	P_{G2}		91.7	126	151	196	214	249	270	430	495	601	665	632	669	815	847	*	*	*	*	*	
12.5	P_{G1}	36.7	47.8	63	72.3	90.2	95.6	116	122	178	194	226	252	235	235	260	250	301	289	*	*	*	
	P_{G2}		87.6	123	142	191	205	244	259	425	475	572	648	637	656	833	844	*	*	*	*	*	
14	P_{G1}	34.3	45.5	60	69.8	83.8	97.7	114	119	173	202	225	266	240	252	274	281	328	333	*	*	*	
	P_{G2}		82.9	116	135	175	207	236	247	403	483	547	659	614	659	814	860	*	*	*	*	*	
16	P_{G1}	31.7	41.8	56.6	68.9	79	97	108	117	166	206	212	263	252	254	280	292	341	354	336	*	*	
	P_{G2}		75.7	108	131	163	201	221	240	377	476	501	626	617	634	782	837	*	*	*	*	*	
18	P_{G1}	30.9	40.1	54.4	65.7	76.1	89.7	103	114	156	200	219	259	248	268	292	299	362	368	367	352	*	
	P_{G2}		72.1	103	124	157	184	208	231	352	450	506	598	583	638	768	805	*	*	*	*	*	
20	P_{G1}	28.8	39.3	51.1	61.7	71.3	85.2	100	109	152	189	208	239	242	258	293	304	361	378	373	372	*	
	P_{G2}		70.2	96.8	115	145	172	200	217	339	419	473	543	554	599	751	787	*	*	*	*	*	
22.4	P_{G1}	28.7	36.4	47.5	59	68.7	81.1	92.3	102	142	175		241		248		300		369		362	*	
	P_{G2}		64.9	89.4	111	139	165	185	203	314	390		544		566		784		*		*	*	
25	P_{G1}				55.3		75.8		99.4		170		227										
	P_{G2}				103		152		196		374		506										
28	P_{G1}				51.5		73.3		92.5		160												
	P_{G2}				95.8		146		182		347												

* 敬请垂询

** 表中数值按:

每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request

** Values refer to:

Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

选型参数表
Selection Table



平行轴减速器
热功率
类型 TH2...
规格 3...28
 $n_1=750 \text{ min}^{-1}$

Helical Gear Units
Thermal Capacities
Type TH2...
Sizes 3...28
 $n_1=750 \text{ min}^{-1}$

		热功率 P_G										Thermal capacities P_G										kW	
IN		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling																					
		规格										Sizes											
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23—28	
6.3	P_{G1}	43	53.1	68.9		97.9		134		186		*	*		*		*		*		*		
	P_{G2}		86.4	116		178		234		354		445		416		449		*		*		*	
7.1	P_{G1}	41.2	54.5	70.4		95.2		131		190		*	*	*	*	*	*	*	*	*	*		
	P_{G2}		88.8	118		172		229		359		456		444	439	502	477	*	*	*	*	*	
8	P_{G1}	39.8	52.4	68.6	75.6	92.5	105	129	134	189	216	*	*	*	*	*	*	*	*	*	*		
	P_{G2}		85.2	116	127	168	189	224	232	357	402	462	512	467	469	548	532	*	*	*	*	*	
9	P_{G1}	37.6	50.8	66.7	77.3	89.8	102	125	132	184	220	252	281	*	*	*	*	*	*	*	*		
	P_{G2}		82.7	113	129	164	184	220	228	349	414	471	531	494	506	603	601	*	*	*	*	*	
10	P_{G1}	36.6	48.1	63.2	75.3	87.1	100	121	128	179	219	249	284	277	286	*	*	*	*	*	*		
	P_{G2}		78.2	107	127	157	180	212	225	341	413	468	536	504	524	633	643	*	*	*	*	*	
11.2	P_{G1}	34.6	46.1	60.7	73	88.1	97	115	125	183	211	256	283	276	290	315	321	*	*	*	*	*	
	P_{G2}		75	102	123	159	174	202	219	347	398	482	532	501	529	642	664	*	*	*	*	*	
12.5	P_{G1}	33.8	44.5	59.7	68.9	86.7	92.8	113	121	183	205	247	277	280	288	331	329	411	406	*	*	*	
	P_{G2}		71.7	100	116	155	167	198	210	344	384	460	521	508	522	660	667	*	*	*	*	*	
14	P_{G1}	31.7	42.2	56.5	66	79.8	93.7	110	116	175	208	238	283	272	291	327	344	412	428	*	*	*	
	P_{G2}		67.8	95.1	111	143	169	192	201	327	391	442	532	492	528	649	684	*	*	*	*	*	
16	P_{G1}	29.2	38.7	53	64.8	74.7	92.3	104	113	164	208	218	272	275	282	319	339	404	427	463	*	*	
	P_{G2}		62	88.5	107	133	164	180	195	307	386	405	507	497	509	627	669	*	*	*	*	*	
18	P_{G1}	28.5	37	50.7	61.3	71.5	84.6	97.9	109	152	198	220	261	261	286	317	330	406	418	462	473	*	
	P_{G2}		59	84.7	102	128	150	170	189	287	366	411	485	471	514	619	647	*	*	*	*	*	
20	P_{G1}	26.6	36.2	47.5	57.4	66.6	80	94.8	103	147	185	207	239	251	270	311	328	395	418	450	474	*	
	P_{G2}		57.5	79.2	94.8	119	140	163	177	276	341	384	441	448	484	606	634	*	*	*	*	*	
22.4	P_{G1}	26.4	33.4	44.1	54.8	64.2	76.1	87	97.1	137	171		240		258		322		405		454	*	
	P_{G2}		53.2	73.2	90.8	114	135	151	166	256	317		442		458		616		*		*	*	
25	P_{G1}				51.4		71.1		94		166		225										
	P_{G2}				84.7		124		160		305		411										
28	P_{G1}				47.7		68.4		87		154												
	P_{G2}				78.4		120		149		283												

* 敬请垂询

** 表中数值按:
每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request

** Values refer to:
Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

选型参数表
Selection Table



平行轴减速器
热功率
类型 TH3...
规格 5...28
 $n_1=1500 \text{ min}^{-1}$

Helical Gear Units
Thermal Capacities
Type TH3...
Sizes 5...28
 $n_1=1500 \text{ min}^{-1}$

		热功率 P_G																Thermal capacities P_G	kW			
i_N		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling																				
		规格																Sizes		23—28		
		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
22.4	P_{G1}											169		193		180		*		*		*
	P_{G2}											346		463		450		*		*		*
25	P_{G1}	52.5		76.1		100		138		167		192	193	180	*	*	*	*	*	*	*	*
	P_{G2}	92.4		138		187		275		338		453	470	442	455	*	*	*	*	*	*	*
28	P_{G1}	50.9		77.5		101		137		169	191	206	207	198	196	222	*	*	*	*	*	*
	P_{G2}	89.4		140		186		268		334	380	463	475	455	464	*	*	*	*	*	*	*
31.5	P_{G1}	49.9	57.4	75.3	82.8	100	102	137	159	173	196	217	222	212	216	246	249	*	*	*	*	*
	P_{G2}	86.9	99.6	135	148	183	188	263	308	332	377	468	487	463	480	*	*	*	*	*	*	*
35.5	P_{G1}	48.6	55.7	73.9	84.4	98.7	104	135	158	175	198	222	235	221	232	268	276	273	*	*	*	*
	P_{G2}	84.3	96.2	132	150	178	186	257	300	328	374	461	493	459	489	*	*	*	*	*	*	*
40	P_{G1}	46.1	54	70.6	81.4	93.9	101	132	156	172	197	221	232	221	231	272	283	293	269	*	*	*
	P_{G2}	79.5	93.4	125	144	170	182	248	293	318	366	449	476	449	474	*	*	*	*	*	*	*
45	P_{G1}	44.2	52.5	68.2	79.2	90.8	99.1	132	151	166	192	223	227	224	227	276	280	297	278	*	*	*
	P_{G2}	76.1	90.2	120	140	162	177	247	283	306	355	450	460	448	460	*	*	*	*	*	*	*
50	P_{G1}	43.2	50.1	65.2	76.6	90.6	95.9	134	151	171	195	240	246	242	250	304	313	360	344	*	*	*
	P_{G2}	73.8	85.5	114	133	160	169	246	278	306	352	462	479	462	480	*	*	*	*	*	*	*
56	P_{G1}	41.2	48.5	62.7	74.4	87.3	93.4	127	154	170	192	239	256	243	260	310	329	379	387	*	*	*
	P_{G2}	70.1	82.2	109	129	153	164	230	280	300	341	449	484	453	485	*	*	*	*	*	*	*
63	P_{G1}	39.1	47	59	71	83.5	92.5	122	154	166	194	235	255	241	262	307	336	397	411	*	*	*
	P_{G2}	66.1	79.2	102	122	145	160	219	276	288	338	434	473	439	474	*	*	*	*	*	*	*
71	P_{G1}	38.7	44.6	57.3	67.7	81.8	88.2	120	144	162	188	230	243	234	249	306	316	381	400	*	*	*
	P_{G2}	65.3	75	98.9	116	142	153	213	256	279	325	422	447	422	450	*	*	*	*	*	*	*
80	P_{G1}	36.8	42.1	56	63.3	77.6	83.5	113	136	158	178	223	237	227	241	292	315	369	384	*	*	*
	P_{G2}	61.9	70.3	96.6	108	134	143	201	241	272	308	406	434	406	433	*	*	*	*	*	*	*
90	P_{G1}	36.3	41.8	53.1	61.4	73.8	81.6	110	134	148	173	211	231	215	233	280	300	363	372	*	*	*
	P_{G2}	61.1	69.8	91.3	104	127	140	194	235	255	298	383	418	384	417	*	*	*	*	*	*	*
100	P_{G1}		39.7		60.4		78		128		171		221		226		294		379	*	*	*
	P_{G2}		66.2		102		133		223		293		397		397		*		*	*	*	*
112	P_{G1}		39.3		57.2		74.3		124		161											
	P_{G2}		65.6		97.3		127		216		274											

* 敬请垂询

** 表中数值按:

每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request

** Values refer to:

Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

平行轴减速器

热功率

类型 TH3...

规格 5...28

$n_1=1000 \text{ min}^{-1}$

Helical Gear Units

Thermal Capacities

Type TH3...

Sizes 5...28

$n_1=1000 \text{ min}^{-1}$

		热功率 P_G										Thermal capacities P_G							kW		
i_M		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling																			
		规格										Sizes									
		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23—28	
22.4	P_{G1}										196		258		270		325		350		*
	P_{G2}										303		432		440		*		*		*
25	P_{G1}	49.9		73.5		99.3		145		191		253	265	263	276	323	333	363	343	*	
	P_{G2}	73.4		110		152		230		294		420	443	427	451	*	*	*	*	*	
28	P_{G1}	46		74.2		99		142		186	214	254	264	265	274	326	338	380	370	*	
	P_{G2}	70.7		112		150		222		286	327	417	434	425	441	*	*	*	*	*	
31.5	P_{G1}	46.7	54	71.4	79.1	96.9	100	138	164	184	211	252	265	268	276	327	341	394	389	*	
	P_{G2}	68.5	78.6	107	118	146	151	215	255	279	319	411	432	418	440	*	*	*	*	*	
35.5	P_{G1}	45.2	51.9	69.4	79.7	93.9	99.8	134	159	180	206	244	264	255	274	325	342	404	404	*	
	P_{G2}	66.2	75.6	104	119	142	149	208	246	271	311	395	425	401	433	*	*	*	*	*	
40	P_{G1}	42.7	50.2	66	76.6	88.9	96.5	129	155	174	201	237	253	247	264	317	336	401	407	*	
	P_{G2}	62.3	73.3	98.9	113	134	145	199	238	261	302	380	406	387	412	*	*	*	*	*	
45	P_{G1}	40.8	48.7	63.6	74.3	85.6	94	128	149	167	194	237	245	246	254	316	326	393	402	*	
	P_{G2}	59.6	70.7	95	110	128	141	199	229	250	291	378	390	383	397	*	*	*	*	*	
50	P_{G1}	39.6	46.1	60.1	70.9	84.2	89.4	127	145	166	190	241	249	248	259	320	332	410	410	*	
	P_{G2}	57.5	66.7	89.6	104	126	133	195	222	245	283	378	393	381	399	*	*	*	*	*	
56	P_{G1}	37.6	44.3	57.5	68.4	80.4	86.2	118	145	161	183	232	250	240	258	311	332	401	421	*	
	P_{G2}	54.5	63.9	85.2	100	120	128	181	221	238	271	361	390	367	394	*	*	*	*	*	
63	P_{G1}	35.5	42.7	53.7	64.7	76.2	84.6	113	143	154	180	222	242	230	250	295	324	393	413	*	
	P_{G2}	51.2	61.4	79.4	95.1	112	124	171	216	226	265	343	375	349	378	*	*	*	*	*	
71	P_{G1}	35.1	40.5	52.1	61.6	74.6	80.5	110	133	150	174	218	229	221	237	292	303	373	397	*	
	P_{G2}	50.6	58.1	76.7	90.4	110	119	166	200	219	255	333	353	334	357	*	*	*	*	*	
80	P_{G1}	33.3	38.2	50.9	57.6	70.6	76.1	104	125	145	165	208	222	213	228	277	299	358	377	*	
	P_{G2}	47.9	54.5	74.9	84.1	104	111	156	188	213	241	320	342	321	343	*	*	*	*	*	
90	P_{G1}	32.9	37.8	48.1	55.7	67.1	74.3	100	123	136	160	196	215	201	219	263	283	349	361	*	
	P_{G2}	47.3	54.1	70.7	81.1	98.8	108	151	183	199	233	301	328	302	329	*	*	*	*	*	
100	P_{G1}		35.9		54.6		70.7		116		156		203		208		272		356	*	
	P_{G2}		51.2		79.5		103		173		227		310		310		*		*	*	
112	P_{G1}		35.5		51.7		67.2		112		146									*	
	P_{G2}		50.7		75.2		98.3		168		213									*	

* 敬请垂询

** 表中数值按:
每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request

** Values refer to:
Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

选型参数表
Selection Table



平行轴减速器
热功率
类型 TH3...
规格 5...28
 $n_1=750 \text{ min}^{-1}$

Helical Gear Units
Thermal Capacities
Type TH3...
Sizes 5...28
 $n_1=750 \text{ min}^{-1}$

		热功率 P_G										Thermal capacities P_G							kW			
in		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling																				
		规格										Sizes										
		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23—28		
22.4	P_{G1}											193		265		285		353		419		*
	P_{G2}											269		393		406		*		*		*
25	P_{G1}	45.9		68.1		92.9		139		188		259	274	276	294	349	363	429	427		*	
	P_{G2}	62.7		95		130		201		261		381	404	393	418	*	*	*	*		*	
28	P_{G1}	44.1		68.5		92.1		134		181	208	256	268	272	285	343	359	432	438		*	
	P_{G2}	60.2		95.9		129		193		252	289	375	392	387	404	*	*	*	*		*	
31.5	P_{G1}	42.8	49.5	65.6	73	89.7	92.9	130	156	176	203	249	264	265	281	335	353	431	440		*	
	P_{G2}	58.3	67	91.5	101	125	130	186	222	244	280	365	386	376	397	*	*	*	*		*	
35.5	P_{G1}	41.2	47.5	63.6	73.3	86.5	92.2	125	150	171	196	238	258	252	273	326	345	426	437		*	
	P_{G2}	56.2	64.3	88.9	101	121	127	179	212	236	271	348	376	357	386	*	*	*	*		*	
40	P_{G1}	38.9	45.8	60.3	70.2	81.7	88.9	120	145	164	190	229	245	242	259	314	335	415	431		*	
	P_{G2}	52.9	62.2	84.1	97	115	124	171	205	226	262	333	357	342	366	*	*	*	*		*	
45	P_{G1}	37.2	44.4	58.1	68	78.6	86.5	119	139	157	183	227	236	239	249	311	323	403	421		*	
	P_{G2}	50.5	60	80.7	94.3	109	120	170	197	216	252	330	342	338	351	*	*	*	*		*	
50	P_{G1}	35.9	41.8	54.7	64.5	76.8	81.7	117	134	154	177	227	235	235	247	306	318	403	409		*	
	P_{G2}	48.7	56.5	76	88.9	107	113	166	190	210	243	326	340	331	347	*	*	*	*		*	
56	P_{G1}	34	40.1	52.1	62	73.1	78.5	108	133	148	169	215	233	224	242	292	313	385	408		*	
	P_{G2}	46	54	72.1	85.4	101	108	154	188	203	231	310	335	316	340	*	*	*	*		*	
63	P_{G1}	32	38.6	48.5	58.6	69	76.6	102	130	140	165	203	222	211	231	273	300	368	389		*	
	P_{G2}	43.2	51.9	67	80.4	95.4	105	145	183	192	225	292	319	298	323	*	*	*	*		*	
71	P_{G1}	31.7	36.6	47.1	55.7	67.5	72.9	100	121	136	159	198	210	203	218	269	279	348	372		*	
	P_{G2}	42.7	49.1	64.8	76.4	93.6	100	140	169	186	216	283	301	285	305	*	*	*	*		*	
80	P_{G1}	30.1	34.5	45.9	52	63.8	68.9	94.7	114	132	150	191	203	195	209	254	275	332	351		*	
	P_{G2}	40.4	46	63.2	71.1	88	94.5	132	159	180	205	272	291	273	292	*	*	*	*		*	
90	P_{G1}	29.7	34.1	43.4	50.3	60.6	67.2	91.4	111	123	145	179	196	184	200	241	260	322	335		*	
	P_{G2}	39.9	45.6	59.7	68.5	83.4	91.8	128	155	168	197	255	279	257	280	*	*	*	*		*	
100	P_{G1}		32.3		49.3		63.8		105		141		184		189		247		326		*	
	P_{G2}		43.2		67.1		87.2		146		192		262		263		*		*		*	
112	P_{G1}		31.9		46.6		60.6		102		132										*	
	P_{G2}		42.7		63.4		82.9		141		180										*	

* 敬请垂询

** 表中数值按:

每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request

** Values refer to:

Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

选型参数表
Selection Table

平行轴减速器

额定功率

类型 TH4...

规格 7...28

Helical Gear Units

Nom. Power Ratings

Type TH4...

Sizes 7...28

		额定功率 P _N										Nominal power ratings P _N										kW		
i _N	n ₁ r/min	n ₂ r/min	规格										Sizes											
			7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
100	1500	15	32		53		94		138		240		314		471		660		879		1256		1739	
	1000	10	21		36		63		92		160		209		314		440		586		837		1159	
	750	7.5	16		27		47		69		120		157		236		330		440		628		869	
112	1500	13.4	29		48		84		129		215	243	281	337	421	484	588	659	785	898	1122	1262	1553	1767
	1000	8.9	19		32		56		82		143	161	186	224	280	322	391	438	521	596	745	838	1035	1178
	750	6.7	14		24		42		62		107	121	140	168	210	242	295	330	391	447	559	629	776	884
125	1500	12	28	32	43	54	75	94	111	137	182	217	251	302	377	434	528	591	703	804	1005	1130	1391	1583
	1000	8	17	21	28	36	50	63	74	91	128	145	168	201	251	289	352	394	469	536	670	753	927	1056
	750	6	13	16	21	27	38	47	55	68	96	109	128	151	188	217	264	295	352	402	503	565	696	792
140	1500	10.7	23	29	38	48	67	84	99	122	171	194	224	269	336	387	471	527	627	717	896	1008	1242	1414
	1000	7.1	15	19	25	32	45	56	65	81	114	129	149	178	223	256	312	349	416	475	594	669	828	942
	750	5.4	12	14	19	24	34	42	50	62	87	98	113	136	170	195	237	268	312	356	446	502	621	707
160	1500	9.4	20	25	33	42	59	74	87	107	151	170	197	236	295	340	413	463	551	629	787	885	1086	1237
	1000	6.3	14	17	22	28	40	49	58	72	101	114	132	158	198	228	277	310	369	422	527	593	725	824
	750	4.7	10	13	17	21	30	37	43	54	75	85	98	118	148	170	207	231	277	317	395	445	544	618
180	1500	8.3	18	22	30	37	52	65	76	95	133	150	174	209	261	300	365	408	488	558	695	782	966	1100
	1000	5.6	12	15	20	25	35	44	52	64	90	101	117	141	176	202	246	276	328	375	469	527	644	733
	750	4.2	9	11	15	19	26	33	39	48	67	76	88	106	132	152	185	207	246	281	352	395	483	550
200	1500	7.5	16	20	27	34	47	59	69	86	120	136	157	188	236	271	330	369	439	502	628	706	869	989
	1000	5	11	13	18	23	31	39	46	57	80	91	106	126	157	181	220	246	293	335	418	471	580	660
	750	3.8	8.2	10	14	17	24	30	35	43	61	69	80	95	119	137	167	187	220	251	314	353	435	495
224	1500	6.7	14	18	24	30	42	53	62	76	107	121	140	168	210	242	295	330	392	449	561	631	776	884
	1000	4.5	10	12	16	20	28	35	41	51	72	82	94	113	141	163	198	221	263	301	376	424	518	589
	750	3.3	7.1	8.8	12	15	21	26	30	38	53	60	69	83	104	119	145	162	197	226	282	318	388	442
250	1500	6	13	16	21	27	38	47	55	68	96	109	126	151	188	217	264	295	351	402	502	565	696	792
	1000	4	8.8	11	14	18	25	31	37	46	64	72	84	101	126	145	176	197	234	268	335	376	464	527
	750	3	6.4	8	11	14	19	24	28	34	48	54	63	75	94	108	132	148	176	201	251	282	347	396
280	1500	5.4	12	14	19	24	34	42	50	62	87	98	113	136	170	195	237	268	316	361	452	508	621	707
	1000	3.8	7.7	9.6	13	16	23	28	33	41	58	65	75	90	113	130	156	177	211	241	301	339	414	472
	750	2.7	5.8	7.2	10	12	17	21	25	31	43	49	57	68	85	98	119	133	158	181	226	254	311	354
315	1500	4.8	10.3	13	17	22	30	38	44	55	77	87	101	121	151	173	211	236	281	321	402	452	552	628
	1000	3.2	7	8.5	11	14	20	25	29	37	51	58	67	80	101	116	141	157	187	214	268	301	368	419
	750	2.4	5.2	6.4	8.5	11	15	19	22	27	38	43	50	60	75	87	106	118	140	161	201	226	276	314
355	1500	4.2	8.8	11	15	19	26	33	39	48	62	76	84	106	128	152	180	207	246	281	351	395	458	557
	1000	2.8	5.7	7.5	9.7	13	17	22	26	32	41	51	58	70	85	101	120	138	164	187	234	263	305	372
	750	2.1	4.3	5.6	7.3	9.5	13	16	19	24	31	38	42	53	64	76	90	103	123	140	176	197	229	279
400	1500	3.8		10.1		17		30		43		63		89		133		185		254		358		463
	1000	2.5		6.7		11		20		29		41		58		88		122		167		235		309
	750	1.9		5.1		8.6		15		22		31		44		67		93		125		176		231
450	1500	3.3		8.6		14		26		38														
	1000	2.2		5.7		9.6		17		25														
	750	1.7		4.4		7.4		13		19														

选型参数表
Selection Table



平行轴减速器
热功率
类型 TH4...
规格 7...28
 $n_1=1500 \text{ min}^{-1}$

Helical Gear Units
Thermal Capacities
Type TH4...
Sizes 7...28
 $n_1=1500 \text{ min}^{-1}$

		热功率 P _G																kW
		Thermal capacities P _G																
		热功率取决于冷却方式: P _{G1} : 无辅助冷却装置; P _{G2} : 带冷却风扇																
		Thermal capacity dependent on kind of cooling: P _{G1} : without auxiliary cooling; P _{G2} : fan cooling																
i _N		规格																Sizes
		7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23—28
100	P _{G1}	46.7		67.6		99.1		130		172		190		264		348		*
112	P _{G1}	47.1		65.1		99.1		129		167	179	186	198	259	276	352	358	*
125	P _{G1}	45.8	52.5	63.1	68.3	95.5	110	126	142	163	174	181	192	254	268	348	359	*
140	P _{G1}	43.5	50.5	61.3	65.6	92.8	110	123	139	158	169	176	188	248	263	336	356	*
160	P _{G1}	41.9	49.1	58	63.7	88.5	106	116	135	153	164	171	182	240	255	327	342	*
180	P _{G1}	40.4	46.7	55.8	61.9	85.8	103	113	132	152	159	169	177	232	249	329	335	*
200	P _{G1}	38.9	45.1	54	58.5	81.3	98.9	110	126	149	157	164	175	226	240	314	335	*
224	P _{G1}	36.7	43.2	52	56.2	78.1	95.5	106	121	140	154	154	170	219	233	303	321	*
250	P _{G1}	35.1	41.9	49.6	54.5	74.2	90.2	100	118	132	143	147	159	208	224	287	305	*
280	P _{G1}	34	39.3	48.2	52.3	71.4	86.8	97.7	112	128	135	143	151	199	213	276	289	*
315	P _{G1}	33.3	37.6	45.9	49.9	69.7	82.2	93.7	108	122	131	136	147	195	204	264	278	*
355	P _{G1}	31.8	36.5	45.1	48.5	66.3	79.2	89.4	104	120	126	133	141	186	200	252	267	*
400	P _{G1}		35.8		46.2		77.3		100		123		138		190		255	*
450	P _{G1}		34		45.4		73.5		95.3									

* 敬请垂询

** 表中数值按:
每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request

** Values refer to:
Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

平行轴减速器
热功率
类型 TH4...
规格 7...28
 $n_1=1000 \text{ min}^{-1}$

Helical Gear Units
Thermal Capacities
Type TH4...
Sizes 7...28
 $n_1=1000 \text{ min}^{-1}$

		热功率 P_G																kW
		Thermal capacities P_G																
		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇																
		Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling																
i_N		规格																23—28
		Sizes																
		7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
100	P_{G1}	43.6		60.8		90.1		120		161		180		253		346		*
112	P_{G1}	42		58.2		89.4		117		154	166	173	185	243	260	340	350	*
125	P_{G1}	40.8	46.8	56.4	61.1	85.8	99.7	114	128	149	160	167	177	235	249	330	344	*
140	P_{G1}	38.7	44.9	54.6	58.5	83	98.9	110	125	144	153	161	171	227	241	313	334	*
160	P_{G1}	37.2	43.6	51.6	56.7	79	95.3	104	121	138	148	154	165	218	232	301	317	*
180	P_{G1}	35.8	41.4	49.4	54.9	76.2	91.8	100	118	136	142	151	158	208	224	297	304	*
200	P_{G1}	34.4	39.9	47.8	51.8	72	87.6	98.2	111	132	139	146	156	201	214	280	300	*
224	P_{G1}	32.4	38.2	45.9	49.6	69	84.4	93.7	107	123	136	136	151	193	208	268	283	*
250	P_{G1}	31	37	43.8	48.2	65.6	79.7	89.1	104	117	126	130	141	183	198	253	270	*
280	P_{G1}	30.1	34.7	42.5	46.2	63.1	76.7	86.3	99.1	113	120	126	133	176	188	243	255	*
315	P_{G1}	29.4	33.3	40.5	44.1	61.6	72.7	82.8	95.5	108	116	121	130	172	181	233	245	*
355	P_{G1}	28.1	32.3	39.8	42.8	58.6	69.9	78.9	91.9	106	111	118	124	164	177	222	236	*
400	P_{G1}		31.6	40.8		68.3		88.3		109		121		168		225		*
450	P_{G1}		30.1	40.1		64.9		84.2										

TB
TH
23

* 敬请垂询
**) 表中数值按:
每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request
**) Values refer to:
Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

选型参数表
Selection Table



平行轴减速器
热功率
类型 TH4...
规格 7...28
 $n_1=750 \text{ min}^{-1}$

Helical Gear Units
Thermal Capacities
Type TH4...
Sizes 7...28
 $n_1=750 \text{ min}^{-1}$

		热功率 P_G										Thermal capacities P_G						kW	
i_N		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling																	
		规格									Sizes								
		7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23—28	
100	P_{G1}	39.9		55.6		82.5		110		148		166		234		322		*	
112	P_{G1}	38.4		53.2		81.9		107		141	152	159	170	224	239	314	325	*	
125	P_{G1}	37.2	42.8	51.5	55.8	78.5	91.3	104	117	136	146	153	163	216	229	304	317	*	
140	P_{G1}	35.3	41	49.8	53.4	75.9	90.4	101	114	131	141	147	157	208	221	288	307	*	
160	P_{G1}	34	39.8	47.1	51.7	72.2	87.1	95.4	111	126	136	141	151	200	213	276	291	*	
180	P_{G1}	32.7	37.8	45.1	50.1	69.6	83.6	92.1	107	124	130	138	145	190	205	272	278	*	
200	P_{G1}	31.4	36.4	43.6	47.3	65.7	80	89.6	102	121	127	133	142	184	195	256	274	*	
224	P_{G1}	29.6	34.8	41.9	45.3	62.9	77	85.4	97.9	112	124	124	137	176	188	244	258	*	
250	P_{G1}	28.3	33.7	40	43.9	59.8	72.7	81.3	95.4	107	115	118	128	167	180	231	246	*	
280	P_{G1}	27.4	31.7	38.8	42.1	57.6	69.9	78.7	90.4	103	109	115	122	161	171	222	233	*	
315	P_{G1}	26.8	30.3	37	40.2	56.1	66.3	75.5	87.1	98.7	106	110	118	157	165	213	224	*	
355	P_{G1}	25.6	29.4	36.3	39	53.4	63.8	72	83.8	97.1	102	107	113	150	161	203	215	*	
400	P_{G1}		28.8		37.2		62.3		80.5		99.6		111		153		205	*	
450	P_{G1}		27.4		36.6		59.2		76.8										

* 敬请垂询

** 表中数值按:
每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request

** Values refer to:
Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

直交轴减速器

额定功率

类型 TB2...

规格 1..18

Bevel-helical Gear Units

Nom. Power Ratings

Type TB2...

Sizes 1..18

i _N	n ₁ r/min	n ₂ r/min	额定功率 P _N / Nominal power ratings P _N kW																	
			规格 / Sizes																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
5	1500	300	36	63	97	162	295		559		880		1351		2073					
	1000	200	24	42	65	121	197		373		586		901		1382		2555			
	750	150	18	31	49	91	148		280		440		675		1037		1916			
5.6	1500	268	32	56	87	163	284		500		786		1253		1880					
	1000	179	22	37	58	109	176		334		525		843		1256		2287			
	750	134	16	28	43	81	132		250		393		631		940		1712	1894	2736	
6.3	1500	238	29	50	77	145	234	299	444	556	698	887	1171	1371	1769	2044				
	1000	159	19	33	52	97	157	200	296	371	466	593	763	916	1182	1385	2164	2348		
	750	119	14	25	39	72	117	150	222	278	349	444	586	685	885	1022	1620	1757	2430	
7.1	1500	211	25	44	68	128	208	265	393	493	619	787	1083	1259	1613	1856				
	1000	141	17	30	48	86	139	177	263	329	413	526	723	842	1078	1240	1949	2141	2879	
	750	108	13	22	34	64	104	133	198	248	311	395	544	633	810	932	1465	1609	2164	2553
8	1500	188	23	39	61	114	185	236	350	439	551	701	994	1161	1516	1732	2598			
	1000	125	15	26	41	76	123	157	233	282	366	466	661	772	1008	1152	1728	1937	2552	
	750	94	11	20	31	57	93	118	175	219	276	350	497	581	758	866	1299	1457	1919	2264
9	1500	167	20	35	54	101	164	210	311	380	490	623	889	1067	1384	1591	2308	2538		
	1000	111	13	23	36	67	109	139	207	259	325	414	587	709	907	1058	1534	1720	2266	2673
	750	83	10	17	27	50	82	104	155	194	243	309	439	530	678	791	1147	1286	1695	1999
10	1500	150	18	31	49	91	148	186	280	350	440	559	793	974	1225	1492	2073	2325		
	1000	100	12	21	32	61	98	126	186	234	293	373	529	649	817	995	1382	1550	2042	2408
	750	75	9	16	24	46	74	94	140	175	220	280	397	487	613	746	1037	1162	1531	1806
11.2	1500	134	16	28	43	81	132	168	250	313	393	500	709	870	1094	1368	1852	2077		
	1000	89	11	19	29	54	88	112	166	208	261	332	471	578	727	909	1230	1379	1817	2143
	750	67	9.1	14	22	41	66	84	125	158	196	250	354	435	547	684	926	1038	1368	1614
12.5	1500	120	14	25	39			151		280		447		779		1225		1860		
	1000	80	10	17	26			101		187		298		519		817		1240		1927
	750	60	7.2	13	19			75		140		224		390		613		930		1445
14	1500	107	13	22	35			134		250		399		695		1092				
	1000	71	8.5	15	23			89		166		265		461		725				
	750	54	6.5	11	18			68		126		201		351		551				
16	1500	94	11	19	31															
	1000	63	7.3	13	20															
	750	47	5.4	9.6	15															
18	1500	83	9	16	26															
	1000	56	6	11	18															
	750	42	4.5	7.9	13															

TB
TH
25

卧式安装减速器要求强制润滑

Forced lubrication required on horizontal gear units

选型参数表
Selection Table



直交轴减速器
热功率
类型 TB2...
规格 1..18
 $n_1=1500 \text{ min}^{-1}$

Bevel-helical Gear Units
Thermal Capacities
Type TB2...
Sizes 1...18
 $n_1=1500 \text{ min}^{-1}$

		热功率 P_G										Thermal capacities P_G								kW	
i_N		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling																			
		规格									Sizes										
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
5	P_{G1}	26.5	34.6	45.3	35.3	*		*		*		*		*		*		*			
	P_{G2}	54.4	72.3	104.5	139	184		283		328		478		574		486					
5.6	P_{G1}	25.3	33.4	43.7	38.6	*		*		*		*		*		*		*			
	P_{G2}	51.4	69.3	100.6	135	185		274		322		504		646		618		565			
6.3	P_{G1}	24.3	30.1	39.6	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	P_{G2}	49.6	62.4	90.8	132	178	206	259	308	310	345	479	581	633	753	664	684	646			
7.1	P_{G1}	25.1	32.3	42.2	40.6	44	50.6	*	*	*	*	*	*	*	*	*	*	*	*		
	P_{G2}	50.6	62.2	89.6	125	169	204	248	298	299	336	493	601	676	804	720	754	740	760		
8	P_{G1}	23.3	30	39.3	39.9	45.1	53.4	53	*	*	*	*	*	*	*	*	*	*	*		
	P_{G2}	44.6	57.4	83.2	117	160	195	236	280	287	321	463	564	646	768	713	775	756	808		
9	P_{G1}	20.5	28	37.5	39.3	45.7	54.4	55.8	61.6	59.6	*	*	*	*	*	*	*	*	*		
	P_{G2}	38	53.7	78.9	111	153	186	226	266	277	306	452	568	640	785	724	759	782	812		
10	P_{G1}	20.8	26.8	36	33.7	44	53.3	55.1	62.3	60.8	63.9	*	*	*	*	*	*	*	*		
	P_{G2}	32.8	44.6	66.3	92.8	140	174	211	251	261	291	429	525	616	734	698	753	770	818		
11.2	P_{G1}	20	26.1	35.3	33	40.4	52.1	51	61.9	57.7	65.2	*	*	*	*	*	*	*	*		
	P_{G2}	31.6	43.4	64	89.7	125	165	188	240	232	279	382	506	555	709	641	721	714	797		
12.5	P_{G1}	19.2	27.6	35			50.1		61.7		66.9		*		*		*		*		
	P_{G2}	30.6	45.7	64.4			151		224		264		481		681		669		749		
14	P_{G1}	18.2	24	31.3			46		57.4		63.1		*		*						
	P_{G2}	30	39.7	56.7			135		200		236		428		611						
16		17.4	22.5	29.3																	
		28.3	37	53																	
18		16.9	21.5	28																	
		26	33.8	48																	

TB
TH

* 敬请垂询
**) 表中数值按:
每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request
**) Values refer to:
Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

直交轴减速器
热功率
类型 TB2...
规格 1...18
 $n_1=1000 \text{ min}^{-1}$

Bevel-helical Gear Units
Thermal Capacities
Type TB2...
Sizes 1...18
 $n_1=1000 \text{ min}^{-1}$

		热功率 P_G								Thermal capacities P_G								kW			
i_n		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling																			
		规格									Sizes										
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
5	P_{G1}	28.9	37.8	49.5	48.3	58.6		77.4		87.1		*		*		*					
	P_{G2}	42.2	56.1	81.1	113	155		246		297		487		684		788					
5.6	P_{G1}	27.7	36.5	47.8	47.7	59.8		78.3		90.2		120		*		*		*			
	P_{G2}	39.9	53.8	78.1	109	153		232		282		481		688		804		859			
6.3	P_{G1}	26.5	32.9	43.3	47	58.7	68.3	75.8	89.9	89.4	98.3	122	142	*	*	*	*	*			
	P_{G2}	38.5	48.5	70.4	105	145	170	216	261	265	300	441	556	637	771	779	838	850			
7.1	P_{G1}	25.4	32.7	42.7	45	57.2	69	74.3	88.9	89.1	99.3	132	158	151	176	*	*	*	*		
	P_{G2}	39.2	48.2	69.5	99	137	166	203	246	250	284	436	546	637	768	756	815	838	897		
8	P_{G1}	23.6	30.3	39.8	42.8	54.8	67.2	72.1	86.1	87.4	97.7	129	155	154	181	*	*	*	*		
	P_{G2}	34.6	44.6	64.6	92.9	128	157	192	229	237	267	400	498	588	705	705	784	793	874		
9	P_{G1}	20.7	28.3	38	41	52.7	64.5	70.2	82.7	85.8	95.3	129	162	159	193	169	176	*	*		
	P_{G2}	29.5	41.7	61.2	87.8	121	148	182	215	226	251	383	490	565	699	684	730	774	823		
10	P_{G1}	19.9	25.7	34.5	34.6	49.3	61.1	68.4	79.2	81.9	91.7	125	153	157	188	172	182	175	*		
	P_{G2}	25.5	34.6	51.5	72.8	111	138	169	202	212	237	359	447	535	642	643	704	737	799		
11.2	P_{G1}	19.1	25	33.8	33.5	44.4	58.4	59.8	76.1	74.5	89	114	150	145	185	162	181	169	187		
	P_{G2}	24.5	33.7	49.7	70.2	99.5	131	150	192	187	228	318	426	476	613	581	662	669	760		
12.5	P_{G1}	18.4	26.4	33.5			54.5		72.2		85.1		145		183		175		186		
	P_{G2}	23.7	35.5	50			119		179		212		400		579		598		691		
14	P_{G1}	17.4	23	29.9			49		65.2		77		131		168						
	P_{G2}	23.3	30.8	44			106		159		189		353		514						
16		16.7	21.6	28																	
		21.9	28.7	41.1																	
18		15.3	19.6	25.4																	
		20.2	26.3	37.2																	

TB
TH
27

* 敬请垂询
**) 表中数值按:
每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request
**) Values refer to:
Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

选型参数表
Selection Table



直交轴减速器
热功率
类型 TB2...
规格 1..18
 $n_1=750 \text{ min}^{-1}$

Bevel-helical Gear Units
Thermal Capacities
Type TB2...
Sizes 1...18
 $n_1=750 \text{ min}^{-1}$

		热功率 P_G										Thermal capacities P_G								kW
i_N		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling																		
		规格									Sizes									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
5	P_{G1}	28.2	36.9	48.3	50	64.7		90		109		*		*		*				
	P_{G2}	35.4	47	67.9	96.9	134		214		261		439		635		765				
5.6	P_{G1}	27	35.6	46.6	48.6	63.9		87.1		106		167		*		*		*		
	P_{G2}	33.4	45.1	65.4	93	131		200		245		428		626		757		827		
6.3	P_{G1}	25.9	32.1	42.2	47.4	61.6	72.5	82.2	99.8	101	114	157	198	*	*	*	*	*		
	P_{G2}	32.2	40.6	59	90	124	145	186	225	230	261	389	495	573	696	721	782	802		
7.1	P_{G1}	24.8	31.9	41.7	44.8	58.7	71.5	78.2	95.2	97.1	110	159	200	204	244	*	*	*	*	
	P_{G2}	32.9	40.4	58.3	84	117	142	174	212	216	245	381	480	565	683	686	744	771	832	
8	P_{G1}	23	29.6	38.8	42.2	55.6	68.6	74.7	90.3	93.1	105	148	186	194	233	*	*	*	*	
	P_{G2}	29	37.3	54.1	78.8	109	134	164	196	203	230	347	435	517	622	632	706	720	798	
9	P_{G1}	20.2	27.7	37	40.2	52.9	65.1	71.6	85.4	89.7	100	143	186	190	235	230	248	*	*	
	P_{G2}	24.7	34.9	51.3	74.4	103	126	155	184	193	216	331	426	494	612	607	650	694	742	
10	P_{G1}	18.4	23.7	31.8	33.8	49.1	61.3	67.2	81	84.6	95.7	136	172	183	221	222	243	244	*	
	P_{G2}	21.3	29	43.1	61.6	94.9	118	144	172	181	203	310	386	465	559	567	624	656	715	
11.2	P_{G1}	17.6	23	31.2	32.7	44.1	58.3	60.2	77.3	76.4	92.1	122	166	165	214	203	233	227	260	
	P_{G2}	20.5	28.2	41.6	59.4	84.4	111	127	164	160	193	273	368	413	532	510	583	593	676	
12.5	P_{G1}	17	24.4	30.9			54		72		87		157		205		214		241	
	P_{G2}	19.9	29.7	41.9			101		152		181		344		501		524		610	
14	P_{G1}	16.1	21.2	27.6			48		65		78		140		185					
	P_{G2}	19.5	25.8	36.9			90.6		135		161		303		443					
16	P_{G1}	15.4	19.9	25.8																
	P_{G2}	18.4	24	34.5																
18	P_{G1}	14.1	18	23.4																
	P_{G2}	16.9	22	31.2																

* 敬请垂询

** 表中数值按:

每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request

** Values refer to:

Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

选型参数表 Selection Table

直交轴减速器
额定功率
类型 TB3...
规格 3...28

Bevel-helical Gear Units
Nom. Power Ratings
Type TB3...
Sizes 3...28

i _N	n ₁ r/min	n ₂ r/min	额定功率 P _N														Nominal power ratings P _N													
			规格														Sizes													
			kW														kW													
3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28					
12.5	1500	120	89	118		214		352		635		980		1659		2450														
	1000	80	46	79		142		235		423		653		1106		1834		2094		2848										
	750	60	35	59		107		176		317		490		829		1225		1571		2136										
14	1500	107	87	110		204		331		594		896		1535		1858		2185		2577										
	1000	71	45	78		135		219		394		595		1019		1100		1450		1710		1948		2193		2678				
	750	54	34	55		103		167		300		452		775		837		1103		1301		1481		1668		2038				
16	1500	94	61	100		118		188		212		305		350		551		610		817		980		1398		1516				
	1000	63	41	67		79		126		142		206		235		369		409		548		643		937		1016				
	750	47	31	50		59		94		106		153		175		276		305		408		480		699		758				
18	1500	83	56	92		110		172		201		282		326		504		565		739		869		1286		1391				
	1000	58	38	62		74		116		135		191		220		340		381		498		586		868		938				
	750	42	28	47		55		87		102		143		165		255		286		374		440		651		704				
20	1500	75	28	52		86		104		161		188		267		308		471		534		681		809		1202				
	1000	50	19	35		58		69		107		125		178		206		314		356		461		539		801				
	750	38	14	26		44		53		82		95		135		158		239		271		350		410		608				
22.4	1500	67	25	46		77		97		144		174		239		288		421		505		617		744		1073				
	1000	45	17	31		52		65		97		117		160		193		283		339		415		499		721				
	750	33	12	23		38		48		71		86		117		142		207		249		304		366		529				
25	1500	60	23	41		69		91		129		160		214		270		377		471		553		685		961				
	1000	40	15	28		48		61		88		107		142		180		251		314		389		457		641				
	750	30	11	21		35		46		64		80		107		135		188		236		276		342		481				
28	1500	54	20	37		62		82		116		144		192		243		339		424		498		616		895				
	1000	36	14	25		41		55		77		96		128		162		228		283		332		411		577				
	750	27	10.2	19		31		41		58		72		96		122		170		212		249		308		433				
31.5	1500	48	18	33		55		73		103		128		171		216		302		377		442		548		769				
	1000	32	12.1	22		37		49		69		85		114		144		201		251		295		365		513				
	750	24	9	17		28		36		52		64		85		108		151		188		221		274		385				
35.5	1500	42	15.8	29		48		64		90		112		150		189		264		330		387		479		673				
	1000	28	11	19		32		43		60		75		100		128		178		220		258		320		449				
	750	21	7.9	15		24		32		45		56		75		95		132		165		194		240		336				
40	1500	38	14	26		44		58		82		101		135		171		239		298		350		434		609				
	1000	25	9	17		29		38		54		67		89		113		157		198		230		285		401				
	750	18.8	7.1	13		22		29		40		50		67		85		118		148		173		215		301				
45	1500	33	12	23		38		50		71		88		117		149		207		259		304		377		529				
	1000	22	8.3	15		25		33		47		59		78		99		138		173		203		251		352				
	750	16.7	6.3	12		19		25		36		45		59		75		105		131		154		191		268				
50	1500	30	11	21		35		46		64		80		107		135		188		236		276		342		481				
	1000	20	8	14		23		30		43		53		71		90		126		157		184		228		320				
	750	15	6	10.4		17		23		32		40		53		68		94		118		138		171		240				
56	1500	27	10.2	19		31		41		58		72		98		122		170		212		249		308		433				
	1000	17.9	6.7	12		21		27		38		48		64		81		112		141		165		204		287				
	750	13.4	5.1	9.3		15		20		28		36		48		60		84		105		129		153		215				
63	1500	24	9	17		28		36		50		64		85		108		151		188		221		274		385				
	1000	15.9	8	11		18		24		33		42		57		72		100		125		147		181		255				
	750	11.9	4.5	8.2		14		18		25		32		42		54		75		93		110		136		191				
71	1500	21	7.9	14.5		24		32		44		56		75		95		132		165		194		240		338				
	1000	14.1	5.3	9.7		16		21		30		38		50		63		89		111		130		161		228				
	750	10.6	4	7.3		12		16		22		28		38		48		67		83		98		121		170				
80	1500	18.8						28		50				85		148				215						341				
	1000	12.5						18		33				56		98				143						226				
	750	9.4						14		25				42		74				107						170				
90	1500	16.7						24		44				75		131				191						311				
	1000	11.1						16		29				50		87				127						217				
	750	8.3						12		22				37		65				95						151				

卧式安装减速机要求强制润滑

Forced lubrication required on horizontal gear units

选型参数表
Selection Table



直交轴减速器
热功率
类型 TB3...
规格 3...28
 $n_1=1500 \text{ min}^{-1}$

Bevel-helical Gear Units
Thermal Capacities
Type TB3...
Sizes 3...28
 $n_1=1500 \text{ min}^{-1}$

		热功率 P_G										Thermal capacities P_G										kW	
i_n		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling																					
		规格											Sizes										
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23—28	
12.5	P_{G1}		39.4	50.4		76.7		95.4		112		*		*		*		*		*		*	
	P_{G2}		64.8	118		186		250		377		468		602		728		*		*		*	
14	P_{G1}		38.6	49.6		75.7		95.2		117		127		*	*	*	*	*	*	*	*	*	
	P_{G2}		82.6	114		180		244		374		482		598	631	728	792	*	*	*	*	*	
16	P_{G1}		36.8	48.3	55.4	72.9	83.3	94.3	103	114	125	122	138	*	*	*	*	*	*	*	*	*	
	P_{G2}		78.6	110	126	172	196	239	262	358	407	445	511	597	615	737	741	*	*	*	*	*	
18	P_{G1}		35.9	47.2	54.1	71.1	81.1	92.5	96.3	115	129	128	146	*	*	*	*	*	*	*	*	*	
	P_{G2}		76.4	107	122	167	191	232	243	353	411	454	520	581	617	722	787	*	*	*	*	*	
20	P_{G1}	31.6	34	45.6	52.6	68.8	78	89.8	100	112	124	126	140	*	*	*	*	*	*	*	*	*	
	P_{G2}	49.3	72.1	103	118	161	182	223	251	339	385	428	480	568	599	708	736	839	*	813	*	*	
22.4	P_{G1}	31.4	33.3	45.1	51.4	67.2	76.7	88.6	93.9	110	128	126	148	*	*	*	*	*	*	*	*	*	
	P_{G2}	49.3	70.3	101	115	155	177	218	231	324	388	412	489	559	586	702	722	836	864	824	793	*	
25	P_{G1}	29.4	31.9	43.3	50.1	66.2	75.2	86.9	92.8	109	130	128	150	153	160	*	*	*	*	*	*	*	
	P_{G2}	46	66.7	96.6	110	151	170	209	223	307	375	395	466	537	585	681	732	833	881	841	844	*	
28	P_{G1}	28.7	30.9	42.5	50	64.1	74.4	85	93.1	109	131	131	155	168	172	183	182	200	*	*	*	*	
	P_{G2}	44.6	63.9	93.3	109	143	165	199	220	296	363	380	452	535	562	689	711	828	878	855	869	*	
31.5	P_{G1}	27	29.4	40.7	47.8	61.7	72.7	82.7	90.7	106	129	131	154	170	183	190	199	216	227	*	*	*	
	P_{G2}	42	60.7	88.5	103	136	160	190	210	282	344	365	430	508	558	658	712	799	863	831	871	*	
35.5	P_{G1}	26.7	27.8	38.6	46.4	59.1	69.8	79.6	87.7	105	125	130	151	173	181	196	203	228	235	*	*	*	
	P_{G2}	39.6	56.8	83	99.8	129	152	181	199	271	328	353	412	495	526	644	677	786	825	821	839	*	
40	P_{G1}	23.5	24.3	33.7	44.3	52	67.1	75	84.4	100	121	125	147	168	180	194	204	226	240	208	*	*	
	P_{G2}	34.7	49.4	71.6	94.6	112	144	168	191	255	310	334	392	469	510	614	657	747	805	783	822	*	
45	P_{G1}	23.2	23.8	32.9	41.8	50.8	64	69.4	80.8	93.2	118	117	144	160	176	187	203	221	240	207	206	*	
	P_{G2}	34	48.3	69.8	88.5	108	137	154	180	234	298	306	377	434	484	572	629	700	765	733	785	*	
50	P_{G1}	22.7	24.2	33	36.8	50.7	56.9	69.3	77	95.8	115	124	142	174	174	210	204	240	247	260	232	*	
	P_{G2}	33.6	48.7	69.2	76.9	106	119	151	169	232	281	310	358	445	453	593	594	690	730	799	757	*	
56	P_{G1}	20.3	22.4	30.7	36.2	47.5	55.7	64.8	72	88.9	108	117	135	167	186	203	225	245	260	271	279	*	
	P_{G2}	29.7	44.8	64	75.1	99.5	116	140	155	211	260	285	330	411	461	552	612	675	712	772	818	*	
63	P_{G1}	20.6	21.6	29.5	36	46.1	55.2	62.8	71	86.3	108	114	138	162	173	199	211	243	256	272	275	*	
	P_{G2}	28.8	43.2	61.6	74.2	96.2	114	135	151	203	255	275	332	393	422	529	563	654	689	752	776	*	
71	P_{G1}	19.1	20	28.2	33.3	43.9	51.4	59	65.9	80.2	99.9	107	127	155	167	190	205	232	251	261	273	*	
	P_{G2}	26.5	40	58.5	68.4	91.7	106	126	140	189	232	258	302	372	404	498	539	615	666	707	754	*	
80	P_{G1}				31.9		49.7		63.8		95.8		123		161		196		240		262	*	
	P_{G2}				65.9		102		136		224		291		384		507		626		710	*	
90	P_{G1}				30.5		47.4		60		89.6		115									*	
	P_{G2}				62.7		97.6		127		208		273									*	

TB
TH

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* 敬请垂询

** 表中数值按:
每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request

** Values refer to:
Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

直交轴减速器
 热功率
 类型 TB3...
 规格 3...28
 $n_1=1000 \text{ min}^{-1}$

Bevel-helical Gear Units
 Thermal Capacities
 Type TB3...
 Sizes 3...28
 $n_1=1000 \text{ min}^{-1}$

		热功率 P_{G1}										Thermal capacities P_{G2}										kW		
In		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling																						
		规格											Sizes											
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23—28		
12.5	P_{G1}		38.1	50.8		79.7		103		140		172		221		235		*		*				
	P_{G2}		66.3	93.9		150		204		321		419		583		742		*		*				
14	P_{G1}		37.1	49.4		77.4		101		139		177		220	233	235	259	*	*	*	*			
	P_{G2}		64.4	90.9		144		198		315		424		562	604	718	798	*	*	*	*			
16	P_{G1}		35.2	47.9	55.4	74	86.2	99.4	110	133	155	165	191	221	227	241	245	*	*	*	*			
	P_{G2}		61.3	87.5	100	137	158	193	214	300	347	388	448	553	579	713	732	*	*	*	*			
18	P_{G1}		34.3	46.5	53.7	71.7	83.2	96.5	102	132	156	167	195	216	230	237	263	*	*	*	*			
	P_{G2}		59.5	84.8	97.1	133	153	187	197	293	347	392	452	531	578	688	763	*	*	*	*			
20	P_{G1}	29.7	32.4	44.6	51.9	68.9	79.4	92.8	105	126	147	159	180	212	223	234	246	271	*	270	*	*		
	P_{G2}	41.1	56.1	81.3	93.5	127	145	179	203	280	323	367	413	513	548	662	700	814	*	899	*	*		
22.4	P_{G1}	29.5	31.6	44	50.4	66.8	77.4	90.7	97.5	122	148	154	185	210	219	236	243	276	286	279	270	*		
	P_{G2}	41.1	54.6	80	90.7	123	141	175	186	266	324	349	417	498	528	646	675	795	833	881	907	*		
25	P_{G1}	27.6	30.1	41.8	48.6	65	74.7	87.3	94.3	117	144	149	176	204	222	234	250	281	297	292	291	*		
	P_{G2}	38.5	51.7	75.5	86.9	119	134	166	178	250	309	329	390	466	513	607	661	763	816	846	893	*		
28	P_{G1}	26.9	29	40.6	48	62.1	72.7	83.9	92.7	113	140	144	172	205	216	239	248	285	302	301	306	*		
	P_{G2}	37.2	49.4	72.7	85.5	112	130	157	174	238	295	312	373	453	480	596	621	731	782	811	857	*		
31.5	P_{G1}	25.3	27.5	38.6	45.5	59.2	70.3	80.6	89.1	108	133	139	165	196	215	232	250	279	302	299	312	*		
	P_{G2}	35.1	46.8	68.7	80.6	106	125	149	165	225	276	296	350	423	468	557	608	688	749	759	821	*		
35.5	P_{G1}	24	25.9	36.4	44	56.4	67	76.9	85.3	105	128	135	159	192	205	228	241	278	293	297	306	*		
	P_{G2}	33	43.8	64.3	77.5	100	119	141	156	215	262	284	332	407	435	538	569	666	703	731	767	*		
40	P_{G1}	21.1	22.6	31.7	41.8	49.4	64.1	72.1	81.6	99.6	122	128	152	183	199	220	236	267	289	287	302	*		
	P_{G2}	29	38.1	55.5	73.3	87.1	112	131	149	201	246	267	315	383	419	508	548	627	679	686	738	*		
45	P_{G1}	20.8	22.1	30.9	39.3	48	60.9	66.4	77.7	91.6	117	119	147	171	190	208	228	253	278	270	291	*		
	P_{G2}	28.4	37.2	54	68.5	84.1	106	120	140	184	236	244	301	352	395	470	520	582	638	634	692	*		
50	P_{G1}	20.4	22.4	30.8	34.4	47.6	53.8	65.5	73.1	92.4	112	122	141	178	179	219	216	256	267	302	283	*		
	P_{G2}	28	37.4	53.3	59.4	82.5	92.5	117	131	181	221	244	283	356	363	478	481	561	595	668	641	*		
56	P_{G1}	18.2	20.7	28.5	33.6	44.3	52.1	60.7	67.7	84.5	103	113	131	165	166	205	228	251	268	294	312	*		
	P_{G2}	24.8	34.4	49.3	57.8	76.7	89.6	108	120	164	203	223	258	325	365	438	488	540	571	630	675	*		
63	P_{G1}	18	19.9	27.4	33.4	42.8	51.5	58.7	66.5	81.7	103	109	133	159	171	198	211	245	260	287	298	*		
	P_{G2}	24.1	33.1	47.3	57.1	74.1	88.1	104	117	158	198	214	259	309	333	419	447	520	549	608	633	*		
71	P_{G1}	16.7	18.4	26.1	30.8	40.8	47.8	55	61.7	75.7	94.8	103	122	151	164	187	204	232	252	272	291	*		
	P_{G2}	22.2	30.7	44.9	52.6	70.5	81.7	97.8	108	146	180	201	236	292	318	393	426	487	529	569	612	*		
80	P_{G1}				29.5		46.2		59.6		90.7		117		157		193		239		276	*		
	P_{G2}				50.6		79		105		173		227		301		400		495		574	*		
90	P_{G1}				28.2		44		55.9		84.5		110									*		
	P_{G2}				48.1		75.1		98.4		161		212									*		

* 敬请垂询

** 表中数值按:
 每小时工作周期: 100% / h
 在室内大空间安装
 海拔高度至 1000m

* On request

** Values refer to:
 Operating cycle: 100% / h
 Installation in a large hall
 Altitude up to 1000 m

选型参数表
Selection Table



直交轴减速器
热功率
类型 TB3...
规格 3...28
 $n_1=750 \text{ min}^{-1}$

Bevel-helical Gear Units
Thermal Capacities
Type TB3...
Sizes 3...28
 $n_1=750 \text{ min}^{-1}$

		热功率 P_G										Thermal capacities P_G										kW	
i_N		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling																					
		规格											Sizes										
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23—28	
12.5	P_{G1}		35.9	48.7		77.4		102		145		188		262		295		*	*	*	*		
	P_{G2}		56.1	79.6		127		174		276		363		511		656		*	*	*	*		
14	P_{G1}		34.9	47.2		74.8		99.5		142		190		253	274	285	322	*	*	*	*		
	P_{G2}		54.5	77		122		168		270		366		491	529	630	704	*	*	*	*		
16	P_{G1}		33.1	45.6	52.9	71.3	83.6	97.1	109	135	161	175	205	250	263	287	297	*	*	*	*		
	P_{G2}		51.8	74.2	85	117	134	165	182	257	298	335	387	482	506	625	645	*	*	*	*		
18	P_{G1}		32.1	44.2	51.3	68.9	80.5	94	100	133	161	176	206	241	261	276	314	*	*	*	*		
	P_{G2}		50.3	71.9	82.3	113	130	159	168	251	298	337	390	462	500	600	670	*	*	*	*		
20	P_{G1}	27.3	30.3	42.3	49.4	66	76.5	90	102	127	150	165	189	234	250	268	288	323	*	371	*	*	
	P_{G2}	34.5	47.4	68.9	79.2	108	123	152	172	240	277	315	356	445	477	577	613	715	*	804	*	*	
22.4	P_{G1}	27.2	29.6	41.6	47.8	63.8	74.3	87.6	94.8	121	150	159	192	228	241	266	279	322	339	370	383	*	
	P_{G2}	34.5	46.1	67.7	76.8	104	120	148	158	227	277	300	359	432	458	562	589	696	731	785	815	*	
25	P_{G1}	25.4	28.1	39.4	45.9	61.7	71.2	83.7	90.9	115	144	151	179	216	237	254	276	315	337	362	381	*	
	P_{G2}	32.2	43.6	63.9	73.5	100	114	141	151	213	264	282	335	402	443	526	574	664	711	748	794	*	
28	P_{G1}	24.8	27	38.1	45.1	58.6	68.8	79.8	88.5	109	137	144	172	211	224	252	264	307	328	351	371	*	
	P_{G2}	31.2	41.7	61.4	72.2	94.8	110	133	147	202	251	266	318	389	412	513	536	632	677	710	754	*	
31.5	P_{G1}	23.4	25.5	36.1	42.6	55.6	66.3	76.3	84.6	104	129	136	163	198	219	238	260	293	319	334	361	*	
	P_{G2}	29.4	39.5	58	68.1	89.8	106	126	140	191	235	252	298	362	401	479	523	593	646	660	718	*	
35.5	P_{G1}	22.1	24	34	41.1	52.8	63	72.5	80.6	100	123	132	155	191	205	231	247	286	303	323	342	*	
	P_{G2}	27.7	36.9	54.3	65.4	84.8	100	120	132	182	222	241	283	348	372	460	488	572	604	633	667	*	
40	P_{G1}	19.5	21	29.5	39	46.2	60.1	67.8	76.9	94.9	117	124	148	181	198	221	239	272	296	307	331	*	
	P_{G2}	24.3	32.1	46.8	61.9	73.6	95.4	111	126	170	209	227	267	327	358	434	469	537	582	593	640	*	
45	P_{G1}	19.2	20.5	28.7	36.6	44.9	57	62.3	73	87	112	114	141	168	187	205	228	255	282	284	313	*	
	P_{G2}	23.8	31.3	45.6	57.8	71	90	101	119	156	200	207	256	300	336	401	444	498	547	546	599	*	
50	P_{G1}	18.8	20.7	28.6	31.9	44.2	49.9	61.2	68.3	87	106	116	134	172	173	213	211	252	263	306	291	*	
	P_{G2}	23.5	31.5	45	50.1	69.6	78.1	98.8	111	153	187	207	240	302	309	407	409	478	507	572	551	*	
56	P_{G1}	16.8	19.1	26.3	31.1	41	48.4	56.5	63	79.1	97.4	107	123	157	177	197	220	243	259	290	312	*	
	P_{G2}	20.8	28.9	41.5	48.7	64.7	75.6	91.4	101	139	171	189	218	275	310	372	414	458	485	537	576	*	
63	P_{G1}	16.6	18.3	25.3	30.9	39.7	47.8	54.5	61.8	76.3	96.6	103	125	150	162	189	202	235	250	281	295	*	
	P_{G2}	20.2	27.9	39.9	48.1	62.4	74.3	88.2	98.8	133	168	181	219	262	282	355	379	441	466	518	540	*	
71	P_{G1}	15.4	17	24.1	28.5	37.8	44.3	51	57.3	70.6	88.6	96	115	143	155	178	194	222	242	265	286	*	
	P_{G2}	18.6	25.9	37.9	44.3	59.5	68.9	82.5	91.7	123	152	169	199	247	269	333	361	413	449	484	522	*	
80	P_{G1}				27.3		42.8		55.3		84.7		110		148		184		228		270	*	
	P_{G2}				42.7		66.6		88.6		146		192		255		338		420		488	*	
90	P_{G1}				26		40.7		51.8		78.8		103									*	
	P_{G2}				40.6		63.3		83		136		179									*	

* 敬请垂询

** 表中数值按:
每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request

** Values refer to:
Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

选型参数表
Selection Table



直交轴减速器
热功率
类型 TB4...
规格 5...28
 $n_1=1500 \text{ min}^{-1}$

Bevel-helical Gear Units
Thermal Capacities
Type TB4...
Sizes 5...28
 $n_1=1500 \text{ min}^{-1}$

		热功率 P_G																Thermal capacities P_G	kW	
i_n		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling																		
		规格																Sizes		23—28
		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
80	P_{G1}	31.7		46.9		66.1		98.6		130		171		189		256		343	*	
90	P_{G1}	31.1		45.5		64.7		95.9		128		164	175	183	195	248	264	337	345	*
100	P_{G1}	29.6	34	43.1	50.2	61.5	66.7	92.4	110	121	140	156	169	173	188	236	255	321	339	*
112	P_{G1}	28.6	33.3	41.5	48.8	59.2	65.3	88.3	106	116	137	149	161	167	179	227	243	315	323	*
125	P_{G1}	27.4	31.8	39.7	46.2	56.6	62.1	84.8	102	112	130	143	155	159	172	218	234	300	318	*
140	P_{G1}	26.1	30.7	37.8	44.6	53.5	59.9	80.4	97.8	107	125	139	148	155	165	211	225	294	304	*
160	P_{G1}	24.1	29.4	34.5	42.7	49	57.2	73.6	94.1	101	121	132	143	147	160	202	218	281	298	*
180	P_{G1}	23.6	28.1	33.7	40.7	47.9	54.3	71.8	89.3	96.5	114	125	136	140	152	190	208	266	286	*
200	P_{G1}	22.8	25.9	33.5	37.2	47	49.8	70.5	81.9	94.7	109	124	130	139	146	191	196	260	271	*
224	P_{G1}	21.3	25.4	31.2	36.4	44	48.6	66.5	80.2	89.1	104	117	128	130	144	181	198	246	266	*
250	P_{G1}	20.8	24.5	30.2	36	42.5	47.8	64.5	78.6	86.6	101	114	120	127	136	176	187	241	252	*
280	P_{G1}	19.8	22.9	28.4	33.7	40.6	44.8	61.8	74	82.1	95.9	106	117	120	132	167	182	233	247	*
315	P_{G1}	18.6	22.3	26.6	32.4	38.2	43.2	57.8	71.6	78.4	92.7	100	110	113	124	158	172	217	236	*
355	P_{G1}		21.3		30.4		41.2		68.4		87.6		103		117		162		220	*
400	P_{G1}		19.9		28.6		38.9		63.8		83.4									*

TB
TH

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* 敬请垂询
**) 表中数值按:
每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request
**) Values refer to:
Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

选型参数表
Selection Table



直交轴减速器
热功率
类型 TB4...
规格 5..28
 $n_1=750 \text{ min}^{-1}$

Bevel-helical Gear Units
Thermal Capacities
Type TB4...
Sizes 5...28
 $n_1=750 \text{ min}^{-1}$

		热功率 P_G										Thermal capacities P_G							kW	
i_n		热功率取决于冷却方式: P_{G1} : 无辅助冷却装置; P_{G2} : 带冷却风扇 Thermal capacity dependent on kind of cooling: P_{G1} : without auxiliary cooling; P_{G2} : fan cooling																		
		规格										Sizes								
		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23—28
80	P_{G1}	26.6		39.5		55.9		84.4		113		151		170		233		327		*
90	P_{G1}	26		38.2		54.6		81.9		110		145	155	163	175	223	239	316	331	*
100	P_{G1}	24.8	28.5	36.2	42.2	51.8	56.3	78.7	94.3	104	121	136	149	153	168	211	229	297	320	*
112	P_{G1}	23.9	27.8	34.8	41	49.8	55	74.9	91	100	118	130	141	146	158	201	216	288	300	*
125	P_{G1}	22.8	26.6	33.2	38.7	47.5	52.2	71.7	86.9	95.9	111	123	134	139	150	191	206	271	291	*
140	P_{G1}	21.8	25.6	31.6	37.3	44.8	50.2	67.8	82.8	91	106	119	127	134	143	184	196	262	274	*
160	P_{G1}	20	24.5	28.8	35.6	41	47.8	61.9	79.3	86.1	102	113	123	127	138	174	189	247	264	*
180	P_{G1}	19.6	23.4	28.1	33.9	40	45.4	60.2	75.1	81.3	96.7	106	116	119	130	163	178	231	250	*
200	P_{G1}	19	21.5	27.8	30.9	39.1	41.5	58.9	68.6	79.4	91.8	104	109	118	123	162	167	223	234	*
224	P_{G1}	17.7	21.1	25.9	30.2	36.6	40.5	55.4	66.9	74.4	86.9	98.4	108	109	121	152	167	209	227	*
250	P_{G1}	17.3	20.3	25	29.9	35.3	39.6	53.6	65.3	72	84.4	95.1	100	106	113	147	156	202	212	*
280	P_{G1}	16.4	19	23.5	27.9	33.7	37.1	51.2	61.3	68	79.4	88.5	97.5	100	109	138	150	193	205	*
315	P_{G1}	15.4	18.5	22	26.8	31.6	35.8	47.8	59.3	64.9	76.8	83.6	91.8	94.3	103	131	142	180	195	*
355	P_{G1}		17.7		25.2		34.1		56.6		72.5		86.1		97.5		134		182	*
400	P_{G1}		16.5		23.6		32.2		52.8		69.1									*

TB
TH

36

* 敬请垂询

** 表中数值按:

每小时工作周期: 100% / h
在室内大空间安装
海拔高度至 1000m

* On request

** Values refer to:

Operating cycle: 100% / h
Installation in a large hall
Altitude up to 1000 m

选型参数表
Selection Table



直交轴减速器
额定输出扭矩
类型 TB2..., TB3..., TB4..
规格 1..28

Bevel-helical Gear Units
Nom. Output Torques
Types TB2..., TB3..., TB4..
Sizes 1...28

i _N	额定输出扭矩 T _{2N}											Nom. output torques T _{2N}											kNm					
	规格											Sizes																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
5	1.15	2	3.1	5.8	9.4		17.8		28		43		66		122													
5.6	1.15	2	3.1	5.8	9.4		17.8		28		45		67		122	135	195											
6.3	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	47	55	71	82	130	141	195											
7.1	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	49	57	73	84	132	145	195	230										
8	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	50.5	59	77	88	132	148	195	230										
9	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	50.5	61	78	91	132	148	195	230										
10	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	50.5	62	78	95	132	148	195	230										
11.2	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	50.5	62	78	97.5	132	148	195	230										
12.5	1.15	2	3.1	5.5	9.4	12	17	22.3	28	35.6	50.5	62	78	97.5	132	148	195	230	250		340							
14	1.15	2	3.1	6	9.8	12	18.2	22.3	29.5	35.6	53	62	80	97.5	137	148	195	230	262	295	360	405						
16	1.1	1.95	3.1	6.2	10.2	12	19.1	21.5	31	35.6	56	62	83	97.5	142	154	200	230	275	308	380	422						
18	1.03	1.8	3	6.4	10.6	12.6	19.8	23.1	32.5	37.5	58	65	85	100	146	160	200	240	288	320	400	438						
20			3.6	6.8	11	13.2	20.5	23.9	34	39.3	60	68	88	103	153	167	200	240	300	332	420	455	560	800	1105			
22.4			3.6	6.8	11	13.8	20.5	24.8	34	41	60	72	88	108	153	173	200	240	300	345	420	470	560	640	800	900	1105	1260
25			3.6	6.8	11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1105	1260
28			3.6	6.8	11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1105	1260
31.5			3.6	6.8	11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1105	1260
35.5			3.6	6.8	11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1105	1260
40			3.6	6.8	11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1105	1260
45			3.6	6.8	11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1105	1260
50			3.6	6.8	11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1105	1260
56			3.6	6.8	11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1105	1260
63			3.6	6.8	11	14.5	20	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1105	1260
71			3.6	6.8	11	14.5	20	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1035	1260
80					11	14	20.5	25.2	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1100	1180
90					11	14	20.5	25.2	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1100	1260
100					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1100	1260
112					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1100	1260
125					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1095	1260
140					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1095	1260
160					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1090	1260
180					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1090	1260
200					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1085	1260
224					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1085	1260
250					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1080	1260
280					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1080	1260
315					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	1035	1260
355						14.5		25.5		43		75		109		173		240		345		470		640		900		1180
400							14.5		25.5		43		75		109													

减 速 器

类型 TH1SH, TH2S, TH3S, TH4S,
 TB2S, TB3S, TB4S.

输出轴 d_2 上许用附加径向力

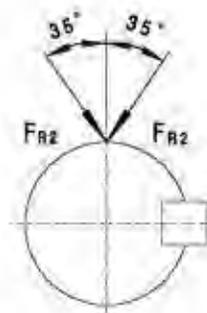
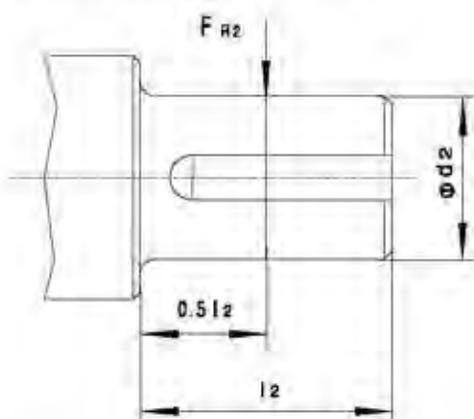
Gear Units

Types TH1SH, TH2S, TH3S, TH4S,
 TB2S, TB3S, TB4S.

Permissible Additional Radial Forces
 on Output Shaft d_2

作用力在轴端中部

Application of force on centre of shaft end



允许的作用力方向

Permissible direction of force

允许的附加径向力 F_{R2} , 作用于输出轴轴端中部
 Permissible additional radial forces F_{R2} with application of force on centre of shaft end kN

类型 Type	布置形式 Design	规 格 Size																										
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
TH1SH	A/B	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
TH2S.	A/B/G/H	-	-	-	10	22	22	30	30	30	45	64	64	150	150	140	205	205	205	365	372	395	400	470	465	460	530	
	C/D	-	-	8	10	13	13	18	18	10	28	35	35	112	112	85	135	135	135	284	305	308	330	365	380	355	430	
TH3S.	A/B/G/H	-	-	8	-	29	29	40	40	40	60	85	85	190	190	185	265	265	265	365	372	395	400	470	465	460	530	
	C/D	-	-	-	-	18	18	26	26	18	40	50	50	150	150	120	185	185	190	284	305	308	330	365	380	355	430	
TH4S.	A/B	-	-	-	-	-	26	26	18	40	50	50	150	150	120	185	185	190	284	305	308	330	365	380	355	430		
	C/D	-	-	-	-	-	40	40	40	60	85	85	190	190	185	265	265	265	365	372	395	400	470	465	460	530		
TB2S.	A/C	7	10	10	13	27	27	37	37	38	55	78	78	160	160	150	210	210	210	365	372	395	400	470	465	460	530	
	B/D	4	7	9	12	15	15	17	17	10	30	35	38	110	110	75	145	100	100	284	305	308	330	365	380	355	430	
TB3S.	A/C	-	-	9	14	29	29	40	40	40	60	85	85	190	190	185	265	265	265	365	372	395	400	470	465	460	530	
	B/D	-	-	7	9	18	18	26	26	18	40	50	50	150	150	120	185	185	190	284	305	308	330	365	380	355	430	
TB4S.	A/C	-	-	-	-	29	29	40	40	40	60	85	85	190	190	185	265	265	265	365	372	395	400	470	465	460	530	
	B/D	-	-	-	-	18	18	26	26	18	40	50	50	150	150	120	185	185	190	284	305	308	330	365	380	355	430	

*: 需要承受附加径向力时请与我们联系。

*: For the case of permitting the additional radial forces, please refer to us.

基础螺栓的最低性能等级为 8.8 级。

Use foundation bolts of min. Property class 8.8.

基础必须干燥, 不得有油脂。

Foundation must be dry and grease-free.

选型参数表
Selection Table



减 速 器

类型 TH1SH, TH2S, TH3S, TH4S,
TB2S, TB3S, TB4S.

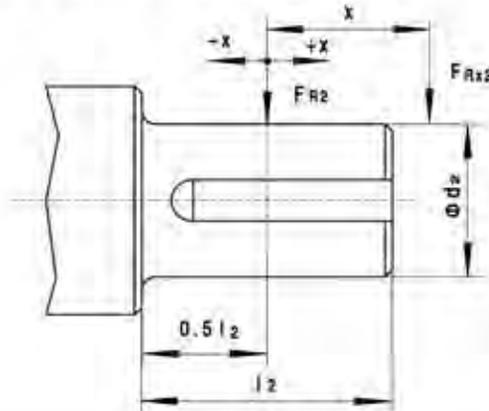
输出轴d₂上许用附加径向力

Gear Units

Types TH1SH, TH2S, TH3S, TH4S,
TB2S, TB3S, TB4S.

Permissible Additional Radial Forces
on Output Shaft d₂

作用力不在轴端中部
Application of force outside the centre of shaft end



$$F_{Rx2} = F_{R2} \times k$$

K-作用力系数

K-Factor of application of force

作用力系数k
Factor of application of force k

规格 Size	距离 x (mm) Distance X in mm																			
	-350	-300	-250	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	250	300	350	400
1									1.11	0.81	0.68	0.58	0.51							
2									1.11	0.83	0.71	0.63	0.56							
3								1.21	1.09	1	0.85	0.74	0.65	0.58	0.48					
4								1.17	1.08	1	0.86	0.76	0.68	0.62	0.52	0.44				
5,6						1.22	1.14	1.06	1	0.88	0.79	0.72	0.66	0.62	0.52	0.44				
7,8					1.19	1.12	1.06	1	0.89	0.81	0.74	0.68	0.58	0.51	0.46	0.41				
9,10				1.22	1.15	1.1	1.05	1	0.9	0.82	0.76	0.7	0.61	0.54	0.48	0.44				
11,12				1.18	1.13	1.08	1.04	1	0.91	0.84	0.78	0.73	0.64	0.57	0.51	0.47				
13,14			1.24	1.15	1.11	1.07	1.03	1	0.92	0.86	0.8	0.75	0.67	0.6	0.55	0.5				
15,16			1.2	1.12	1.09	1.06	1.03	1	0.93	0.87	0.82	0.77	0.69	0.63	0.58	0.53				
17,18			1.25	1.17	1.11	1.08	1.05	1.03	1	0.94	0.88	0.84	0.79	0.72	0.66	0.6	0.56			
19,20			1.22	1.13	1.1	1.06	1.04	1.02	1	0.95	0.9	0.85	0.81	0.74	0.69	0.62	0.58			
21,22		1.27	1.21	1.12	1.09	1.05	1.04	1.02	1	0.96	0.92	0.86	0.83	0.75	0.71	0.64	0.6			
23,24		1.27	1.2	1.1	1.08	1.04	1.03	1.02	1	0.97	0.93	0.87	0.84	0.77	0.72	0.65	0.61			
25,26	1.29	1.22	1.18	1.09	1.07	1.03	1.03	1.02	1	0.98	0.96	0.87	0.83	0.76	0.7	0.64	0.61	0.55	0.51	

外形安装尺寸
Mounting Dimension Sheets—overview



平行轴减速器
单级传动
卧式安装
类型 TH1SH
规格 1...19

Helical Gear Units
Single Stage
Horizontal
Type TH1SH
Sizes 1...19

规格 Size	尺寸 mm												Dimensions in mm							
	输入轴												Input shaft							
	i _N =1.25-2.8			i _N =1.6-2.8			i _N =2-2.8			i _N =3.15-4			i _N =4.5-5.6			G ₁	G ₃			
d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃						
1	40	70											30	50	-	24	40	-	110	-
3	60	125	105										45	100	80	32	80	60	170	190
5	85	160	130										60	135	105	50	110	80	210	240
7	100	200	165										75	140	105	60	140	105	250	285
9	110	200	165										90	165	130	75	140	105	280	315
11				130	240	205							110	205	170	90	170	135	325	360
13				150	245	200							130	245	200	100	210	165	365	410
15								180	290	240			150	250	200	125	250	200	360	410
17								200	330	280			170	290	240	140	250	200	400	450
19								220	340	290			190	340	290	160	300	250	440	490

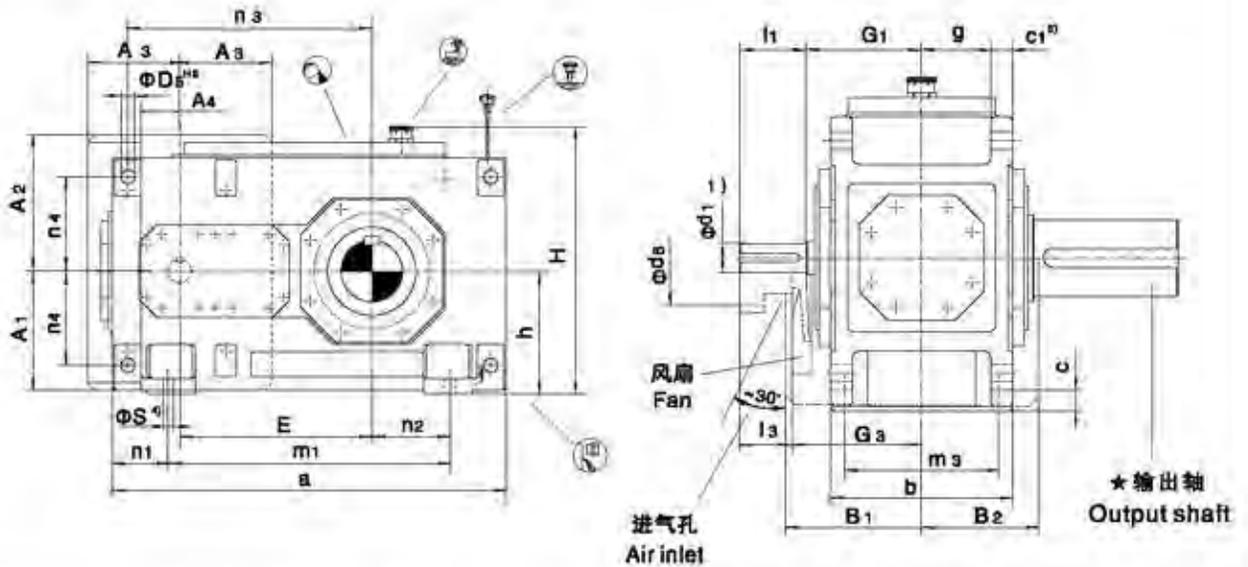
规格 Size	尺寸 mm											Dimensions in mm								
	减速器											Gear units								
a	A ₁	A ₂	A ₃	b	B ₁	B ₂	B ₃	c	d _s	E	h	H	m ₁	m ₂	m ₃	n ₁	n ₂	s		
1	295	-	-	-	150	-	-	-	18	-	90	140	305	220	-	120	37.5	80	12	
3	420	150	145	80	200	205	130	-	28	130	130	200	405	310	-	160	55	110	19	
5	580	225	215	115	285	255	185	-	35	190	185	290	555	440	-	240	70	160	24	
7	690	255	250	120	375	300	230	-	45	245	225	350	655	540	-	315	75	195	28	
9	805	300	265	140	425	330	265	-	50	280	265	420	770	625	-	350	90	225	35	
11	960	360	330	190	515	375	320	-	60	350	320	500	875	770	-	440	95	280	35	
13	1100	415	350	-	580	430	-	150	70	350	370	580	1055	870	-	490	115	315	42	
15	1295	500	430	-	545	430	-	120	80	450	442	600	1150	1025	-	450	135	370	48	
17	1410	550	430	-	615	470	-	150	80	445	490	670	1270	1170	130	530	120	425	42	
19	1590	630	475	-	690	510	-	190	90	445	555	760	1430	1290	150	590	150	465	48	

规格 Size	尺寸 mm			Dimensions in mm			润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴			Output shaft				
	d ₂ ¹⁾	G ₂	l ₂					
1	45	110	80	2.5	55			
3	60	170	125	7	128			
5	85	210	180	22	302			
7	105	250	200	42	547			
9	125	270	210	68	862			
11	150	320	240	120	1515			
13	180	360	310	175	2395			
15	220	360	350	190	3200			
17	240	400	400	270	4250			
19	270	440	450	390	5800			

平行轴减速器
 两级传动
 卧式安装
 类型 TH2.H
 规格 3...12

Helical Gear Units
 Two Stage
 Horizontal
 Type TH2.H
 Sizes 3...12

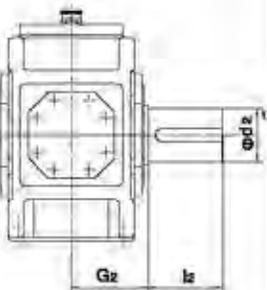
TH2SH TH2HH TH2DH TH2FH



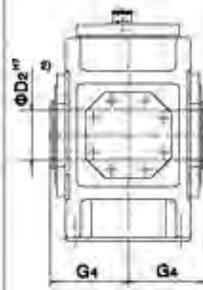
★ 输出轴

★ Output shaft

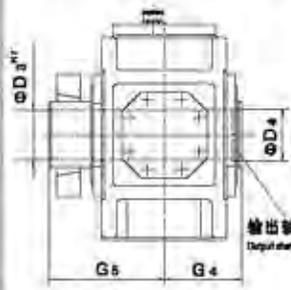
TH2SH
 实心轴
 Solid shaft



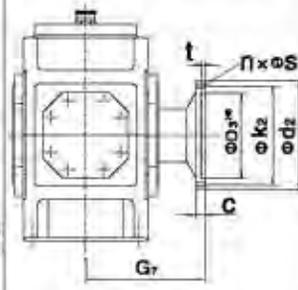
TH2HH
 空心轴
 Hollow shaft



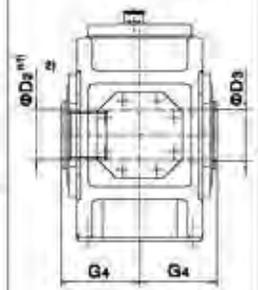
TH2DH
 带胀紧套的空心轴
 Hollow shaft for shrink disk



TH2FH
 法兰轴
 Flanged shaft



TH2KH
 花键空心轴
 Hollow shaft



- 1) $.m6 \leq \phi 100$ $n6 > \phi 100$
 有关平键和中心孔, 参见第 2 页
- 2) 键槽 GB/T1095-1979
- 3) 扭力支撑位于工作机侧
- 4) 在安装基础螺栓前, 应先拆下风扇罩

- 1) $.m6 \leq \phi 100$ $n6 > \phi 100$
 For parallel key and for centre hole, see page 2
- 2) Keyway GB/T 1095-1979
- 3) Torque support on driven machine side
- 4) Remove air guide cover before fitting the foundation bolts

外形安装尺寸
Mounting Dimension Sheets—overview



平行轴减速器
两级传动
卧式安装
类型 TH2.H
规格 3...12

Helical Gear Units
Two Stage
Horizontal
Type TH2.H
Sizes 3...12

规格 Size	尺寸 mm						Dimensions in mm						G ₁	G ₂
	输入轴						Input shaft							
	i _N =6.3-11.2			i _N =8-14			i _N =12.5-22.4			i _N =16-28				
d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	G ₁	G ₂	
3	35	60	-				28	50	-			135	-	
4	45	100	80				32	80	60			170	190	
5	50	100	80				38	80	80			195	215	
6				50	100	80				38	80	80	195	215
7	60	135	105				50	110	80			210	240	
8				60	135	105				50	110	80	210	240
9	75	140	110				60	140	110			240	270	
10				75	140	110				60	140	110	240	270
11	90	165	130				70	140	105			275	310	
12				90	165	130				70	140	105	275	310

规格 Size	尺寸 mm						Dimensions in mm					
	减速器						Gear units					
a	A ₁	A ₂	A ₃	A ₄	b	B ₁	B ₂	c	c ₁	D ₅	d ₅	
3	450	-	-	-	-	190	-	-	22	24	18	-
4	565	195	225	150	30	215	205	158	28	30	24	136
5	640	225	260	175	55	255	230	177.5	28	30	24	150
6	720	225	260	175	55	255	230	177.5	28	30	24	150
7	785	272	305	210	70	300	255	210	35	36	28	200
8	890	272	305	210	70	300	255	210	35	36	28	200
9	925	312	355	240	100	370	285	245	40	45	36	200
10	1025	312	355	240	100	380	285	245	40	45	36	200
11	1105	372	420	285	135	430	325	285	50	54	40	210
12	1260	372	420	285	135	430	325	285	50	54	40	210

规格 Size	尺寸 mm						Dimensions in mm					
	减速器						Gear units					
E	g	h	H	m ₁	m ₂	n ₁	n ₂	n ₃	n ₄	s		
3	220	71	175	390	290	160	80	65	285	132.5	15	
4	270	77.5	200	445	355	180	105	85	345	150	19	
5	315	97.5	230	512	430	220	105	100	405	180	19	
6	350	97.5	230	512	510	220	105	145	440	180	19	
7	385	114	280	602	545	260	120	130	500	215	24	
8	430	114	280	617	650	260	120	190	545	215	24	
9	450	140	320	697	635	320	145	155	585	245	28	
10	500	145	320	697	735	320	145	205	635	245	28	
11	545	161	380	817	775	370	165	180	710	300	35	
12	615	161	380	825	930	370	165	265	780	300	35	

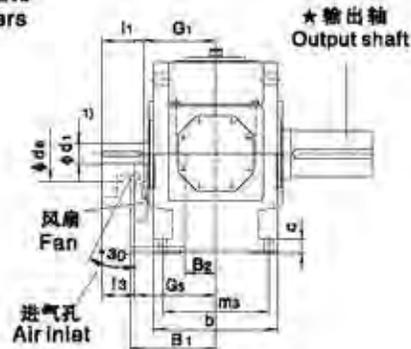
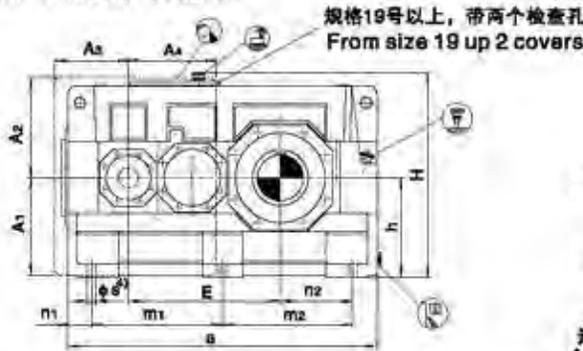
规格 Size	尺寸 mm														润滑油		重量/Weight (kg)		
	输出轴														Lubrication (L)				
	TH2SH				TH2HH				TH2DH				TH2FH				TH2KH		TH2SH	TH2FH
d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅	c	d ₂	D ₃	k ₂	n × s	t	G ₇	(L)	TH2HH	TH2DH	
3	65	125	140	65	125	70	70	125	180	-	-	-	-	-	-	6	115	-	
4	80	140	170	80	140	85	85	140	205	-	-	-	-	-	-	10	190	-	
5	100	165	210	95	165	100	100	165	240	25	300	150	260	16 × 22	10	15	300	335	
6	110	165	210	105	165	110	110	165	240	25	320	160	280	18 × 22	10	16	355	395	
7	120	195	210	115	195	120	120	195	280	30	370	180	320	16 × 26	10	27	505	555	
8	130	195	260	125	195	130	130	195	285	30	390	190	340	18 × 26	10	30	590	645	
9	140	235	250	135	235	140	145	235	330	38	430	220	380	20 × 26	12	42	830	915	
10	160	235	300	150	235	150	155	235	350	38	470	240	420	22 × 26	12	45	960	1050	
11	170	270	300	165	270	165	170	270	400	42	510	260	450	18 × 33	12	71	1335	1465	
12	180	270	300	180	270	180	185	270	405	42	540	280	480	22 × 33	12	76	1615	1755	

见
TH2B
103-106
页
See page
TH2B
103-106

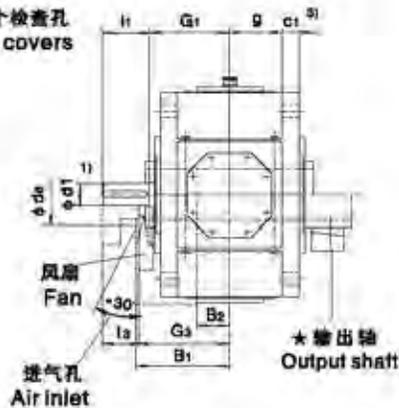
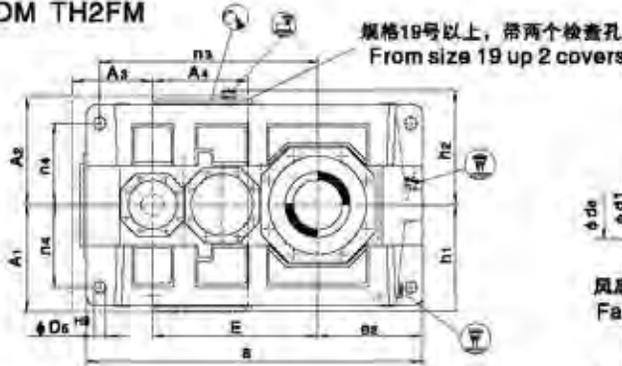
平行轴减速器
 两级传动
 卧式安装
 类型 TH2.H, TH2.M
 规格 13...22

Helical Gear Units
 Two Stage
 Horizontal
 Types TH2.H, TH2.M
 Sizes 13...22

TH2SH TH2HH TH2DH TH2FH



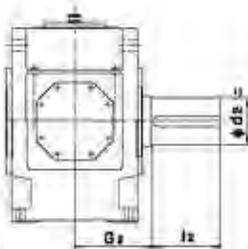
TH2HM TH2DM TH2FM



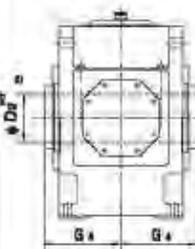
★ 输出轴

★ Output shaft

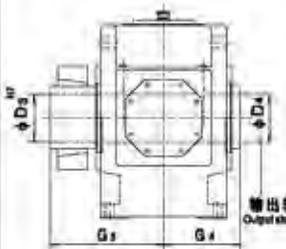
TH2SH
 实心轴
 Solid shaft



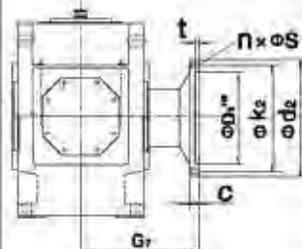
TH2HH,⁵⁾TH2HM⁵⁾
 空心轴
 Hollow shaft



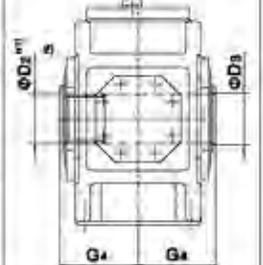
TH2DH,⁵⁾TH2DM⁵⁾
 带胀紧套的空心轴
 Hollow shaft for shrink disk



TH2FH, TH2FM
 法兰轴
 Flanged shaft



TH2KH
 花键空心轴
 Hollow shaft



- 1) $.m6 \leq \Phi 100$ $n6 > \Phi 100$
 有关平键和中心孔, 参见第 2 页
- 2) 键槽 GB/T 1095-1979
- 3) 扭力支撑位于工作机侧
- 4) 在安装基础螺栓前, 应先拆下风扇罩
- 5) 规格 13 和 15 号: 速比只有 $i_N = 6.3 \sim 18$;
 规格 17 和 19 号: 速比只有 $i_N = 6.3 \sim 14$

- 1) $.m6 \leq \Phi 100$ $n6 > \Phi 100$
 For parallel key and for centre hole, see page 2
- 2) Keyway GB/T 1095-1979
- 3) Torque support on driven machine side
- 4) Remove air guide cover before fitting the foundation bolts
- 5) Sizes 13 and 15: only $i_N = 6.3 \sim 18$;
 Sizes 17 and 19: only $i_N = 6.3 \sim 14$

外形安装尺寸
Mounting Dimension Sheets—overview



平行轴减速器
两级传动
卧式安装
类型 TH2.H, TH2.M
规格 13...22

Helical Gear Units
Two Stage
Horizontal
Types TH2.H, TH2.M
Sizes 13...22

规格 Size	尺寸 mm 输入轴															Dimensions in mm Input shaft					
	i _N =6.3-11.2			i _N =7.1-12.5			i _N =8-14			i _N =12.5-20			i _N =14-22.4			i _N =16-25			G ₁	G ₂	
	d ₁ ⁽¹⁾	l ₁	l ₂	d ₁ ⁽¹⁾	l ₁	l ₂	d ₁ ⁽¹⁾	l ₁	l ₂	d ₁ ⁽¹⁾	l ₁	l ₂	d ₁ ⁽¹⁾	l ₁	l ₂	d ₁ ⁽¹⁾	l ₁	l ₂			
13	100	205	170							85	170	135								330	365
14							100	205	170								85	170	135	330	365
15	120	210	165							100	210	165								365	410
16				120	210	165							100	210	165					365	410
17	125	245	200							110	210	165								420	465
18				125	245	200							110	210	165					420	465
19	150	245	200							120	210	165								475	520
20				150	245	200							120	210	165					475	520
21	170	290	240							140	250	200								495	545
22				170	290	240							140	250	200					495	545

规格 Size	尺寸 mm 减速器										Dimensions in mm Gear units				
	a	A ₁	A ₂	A ₃	A ₄	b	B ₁	B ₂	c	c ₁	d _s	D _s	e _s	E	
13	1290	430	460	330	365	550	385	135	60	61	250	48	405	635	
14	1430	430	460	330	365	550	385	135	60	61	250	48	475	705	
15	1550	490	500	370	440	625	430	155	70	72	280	55	485	762	
16	1640	490	500	370	440	625	430	155	70	72	280	55	530	808	
17	1740	540	565	435	505	690	485	140	80	81	280	55	525	860	
18	1860	540	565	435	505	690	485	140	80	81	280	55	565	920	
19	2010	600	600	500	450	790	540	190	90	91	310	65	590	997	
20	2130	600	600	500	450	790	540	190	90	91	310	65	650	1057	
21	2140	680	680	500	610	830	565	200	100	100	450	75	655	1067	
22	2250	680	680	500	610	830	565	200	100	100	450	75	710	1122	

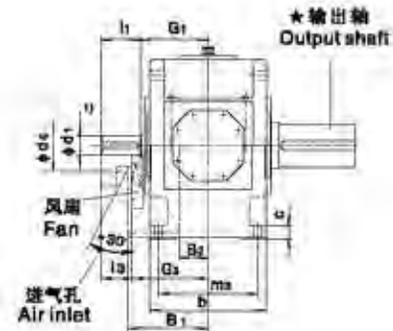
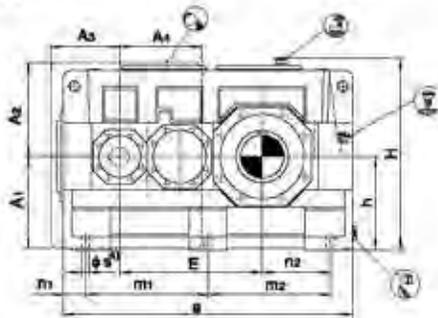
规格 Size	尺寸 mm 减速器										Dimensions in mm Gear units				
	g	h	h ₁	h ₂	H	m ₁	m ₂	m ₃	n ₁	n ₂	n ₃	n ₄	s		
13	214	440	450	495	935	545	545	475	100	305	835	340	35		
14	214	440	450	495	935	545	665	475	100	375	905	340	35		
15	240.5	500	490	535	1035	655	655	535	120	365	1005	375	42		
16	240.5	500	490	535	1035	655	745	535	120	410	1050	375	42		
17	264	550	555	595	1145	735	735	600	135	390	1145	425	42		
18	264	550	555	595	1145	735	855	600	135	450	1205	425	42		
19	304	620	615	655	1275	850	850	690	155	435	1345	475	48		
20	304	620	615	655	1275	850	970	690	155	495	1405	475	48		
21	315	700	685	725	1425	900	900	720	170	485	1400	520	56		
22	315	700	685	725	1425	900	1010	720	170	540	1455	520	56		

规格 Size	尺寸 mm 输出轴															Dimensions in mm Output shaft		润滑油 Lubrication		重量 / Weight (kg)			
	TH2SH		TH2HH ⁽⁵⁾ TH2HM ⁽⁵⁾		TH2DH ⁽⁶⁾ TH2DM ⁽⁵⁾				TH2FH TH2FM				TH2KH TH2KM		TH2.H (L)	TH2.M (L)	TH2SH TH2HH TH2DH	TH2HM TH2DM	TH2FH	TH2FM			
	d ₂ ⁽¹⁾	G ₂	l ₂	D ₂ ⁽²⁾	G ₄	D ₃	D ₄	G ₄	G ₃	c	d ₂	D ₃	k ₂	n × s							l	G ₇	
13	200	335	350	190	335	190	195	335	480	48	580	310	500	20 × 33	14	480	135	110	2000	1880	2160	2040	
14	210	335	350	210	335	210	215	335	480	48	620	310	540	24 × 33	14	480	140	115	2570	2430	2740	2600	
15	230	380	410	230	380	230	235	380	550	55	710	360	630	28 × 33	17	550	210	160	3430	3240	3670	3480	
16	240	380	410	240	380	240	245	380	550	55	740	360	660	30 × 33	17	550	215	165	3655	3465	3910	3720	
17	250	415	410	250	415	250	260	415	600	60	750	410	660	24 × 39	18	600	290	230	4650	4420	4950	4720	
18	270	415	470	275	415	280	285	415	600	60	800	410	710	26 × 39	18	600	300	240	5125	4870	5475	5220	
19	290	465	470	-	-	285	295	465	670	65	860	460	770	30 × 39	18	670	320	300	6600	6300	-	-	
20	300	465	500	-	-	310	315	465	670	65	930	460	830	32 × 39	18	670	340	320	7500	7200	-	-	
21	320	490	500	-	-	330	335	490	715	75	950	520	850	28 × 45	20	710	320	350	8900	8400	-	-	
22	340	490	550	-	-	340	345	490	725	75	1040	520	940	28 × 45	20	710	340	370	9600	9200	-	-	

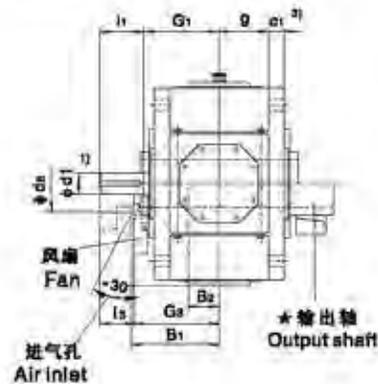
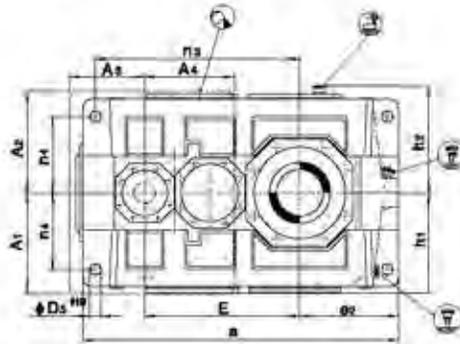
平行轴减速器
两级传动
卧式安装
类型 TH2.H, TH2DM
规格 23...28

Helical Gear Units
Two Stage
Horizontal
Types TH2.H, TH2DM
Sizes 23...28

TH2SH TH2DH



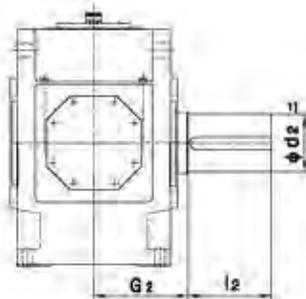
TH2DM



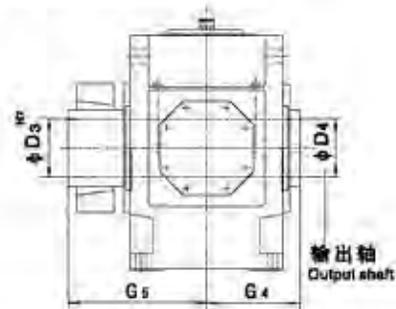
★ 输出轴

★ Output shaft

TH2SH
实心轴
Solid shaft



TH2DH, TH2DM
带胀紧盘的空心轴
Hollow shaft for shrink disk



- 1) $.m6 \leq \Phi 100$ $n6 > \Phi 100$
有关平键和中心孔, 参见第 2 页
- 2) 键槽 GB/T 1095-1979
- 3) 扭力支撑位于工作机侧
- 4) 在安装基础螺栓前, 应先拆下风扇罩

- 1) $.m6 \leq \Phi 100$ $n6 > \Phi 100$
For parallel key and for centre hole, see page 2
- 2) Keyway GB/T 1095-1979
- 3) Torque support on driven machine side
- 4) Remove air guide cover before fitting the foundation bolts

外形安装尺寸
Mounting Dimension Sheets—overview



平行轴减速器
两级传动
卧式安装
类型 TH2.H, TH2DM
规格 23...28

Helical Gear Units
Two Stage
Horizontal
Types TH2.H, TH2DM
Sizes 23...28

规格 Size	尺寸 mm												Dimensions in mm	
	输入轴												G ₁	G ₂
	i _N =6.3-10 (i _N =8.0-10)			i _N =7.1-11.2 (i _N =9.0-11.2)			i _N =11.2-20			i _N =12.5-22.4				
d ₁	l ₁	l ₃	d ₁	l ₁	l ₃	d ₁	l ₁	l ₃	d ₁	l ₁	l ₃			
23	190	330	280				150	250	200				560	610
24				190	330	280				150	250	200	560	610
25	200	340	290				170	300	250				600	650
26				200	340	290				170	300	250	600	650
27	240	380	—				200	340	—				670	—
28				240	380	—				200	340	—	670	—

注：括号内传动比为规格27,28减速器

规格 Size	尺寸 mm														Dimensions in mm	
	减速器														E	
	a	A ₁	A ₂	A ₃	A ₄	b	B ₁	B ₂	c	c ₁	d ₆	D ₅	e ₂			
23	2380	770	770	550	550	930	630	220	115	120±2	450	80	730	1185		
24	2510	770	770	550	550	930	630	220	115	120±2	450	80	795	1250		
25	2645	845	865	550	550	1045	670	240	130	120±2	450	90	790	1325		
26	2825	845	865	550	550	1045	670	240	130	120±2	450	90	880	1415		
27	2960	—	—	—	—	1170	—	—	150	145±2	—	100	880	1485		
28	3150	—	—	—	—	1170	—	—	150	145±2	—	100	975	1580		

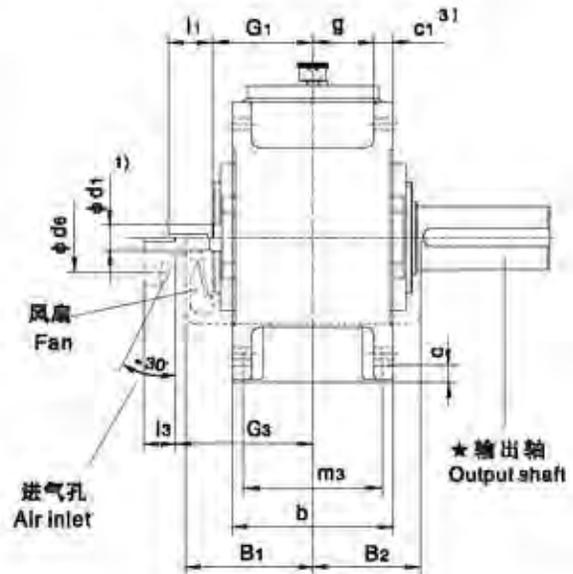
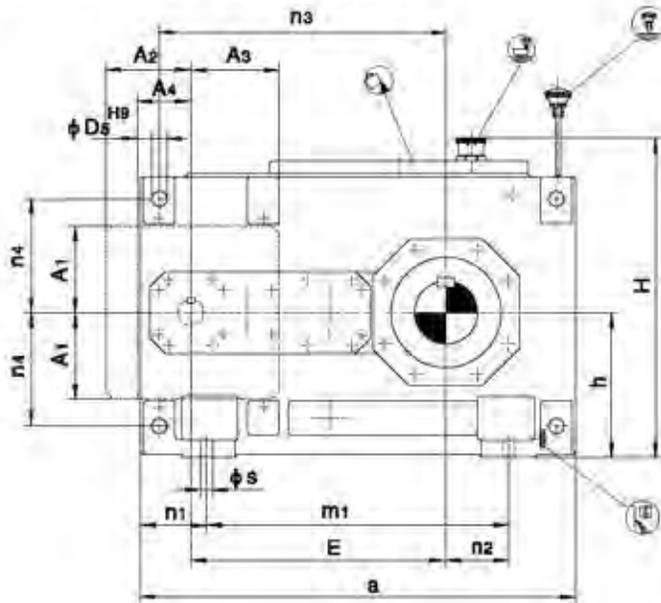
规格 Size	尺寸 mm														Dimensions in mm	
	减速器														S	
	g	h ₋₁	h ₁	h ₂	H	m ₁	m ₂	m ₃	n ₁	n ₂	n ₃	n ₄				
23	345	780	765	815	1595	1010	1010	810	180	550	1560	580	56			
24	345	780	765	815	1595	1010	1140	810	180	615	1625	580	56			
25	402.5	860	860	910	1770	1155	1090	910	200	590	1750	660	66			
26	402.5	860	860	910	1770	1155	1270	910	200	680	1840	660	66			
27	440	950	930	950	1900	1260	1260	1030	220	660	2000	720	74			
28	440	950	930	950	1900	1260	1450	1030	220	755	2095	720	74			

规格 Size	尺寸 mm							Dimensions in mm		润滑油		Lubrication		重量		Weight	
	输出轴							Output shaft		TH2.H (L)	TH2DM (L)	TH2.H (kg)	TH2DM (kg)				
	TH2SH			TH2DH, TH2DM													
	d ₂	G ₂	l ₂	D ₃	D ₄	G ₄	G ₅										
23	360	540	590	370	375	540	800	430	470	11600	11000						
24	380	540	590	390	395	540	820	450	500	13000	12300						
25	400	605	650	410	415	610	895	640	700	15600	14800						
26	420	605	650	430	435	610	925	680	740	17500	16500						
27	440	680	690	460	465	680	1000	880	970	22000	21000						
28	460	680	750	470	475	680	1020	940	1030	25000	23800						

平行轴减速器
 三级传动
 卧式安装
 类型 TH3.H
 规格 5...12

Helical Gear Units
 Three Stage
 Horizontal
 Type TH3.H
 Sizes 5...12

TH3SH TH3HH TH3DH TH3FH



★ 输出轴

★ Output shaft

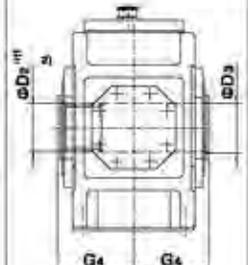
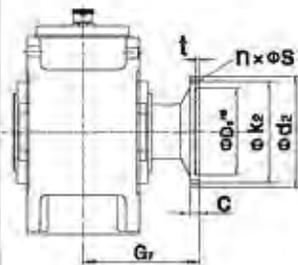
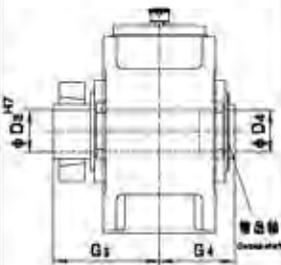
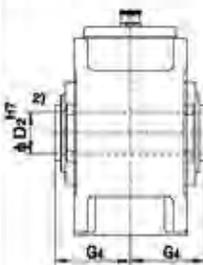
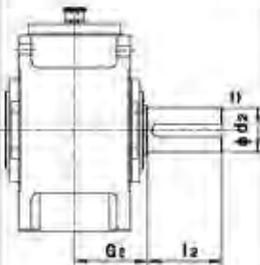
TH3SH
 实心轴
 Solid shaft

TH3HH
 空心轴
 Hollow shaft

TH3DH
 带胀紧套的空心轴
 Hollow shaft for shrink disk

TH3FH
 法兰轴
 Flanged shaft

TH3KH
 花键空心轴
 Hollow shaft



- 1) .k6 ≤ φ24 φ28 ≤ m6 ≤ φ100 n6 > φ100
 有关平键和中心孔, 参见第 2 页
- 2) 键槽 GB/T 1095-1979
- 3) 扭力支撑位于工作机侧

- 1) .k6 ≤ φ24 φ28 ≤ m6 ≤ φ100 n6 > φ100
 For parallel key and for centre hole, see page 2
- 2) Keyway GB/T 1095-1979
- 3) Torque support on driven machine side

外形安装尺寸
Mounting Dimension Sheets—overview



平行轴减速器
三级传动
卧式安装
类型 TH3.H
规格 5...12

Helical Gear Units
Three Stage
Horizontal
Type TH3.H
Sizes 5...12

规格 Size	尺寸 mm 输入轴															Dimensions in mm				
	i _n =25-45			i _n =31.5-56			i _n =50-63			i _n =63-80			i _n =71-90			i _n =90-112			G ₁	G ₂
	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂		
5	40	70	70				30	50	50				24	40	40				160	220
6				40	70	70				30	50	50				24	40	40	160	220
7	45	80	80				35	60	60				28	50	50				185	250
8				45	80	80				35	60	60				28	50	50	185	250
9	60	125	105				45	100	80				32	80	60				230	300
10				60	125	105				45	100	80				32	80	60	230	300
11	70	120	120				50	80	80				42	70	70				255	330
12				70	120	120				50	80	80				42	70	70	255	330

规格 Size	尺寸 mm 减速器										Dimensions in mm Gear units			
	a	A ₁	A ₂	A ₃	A ₄	b	B ₁	B ₂	c	c ₁	d _a	D ₅		
5	690	137	135	140	80	255	215	175	28	30	60	24		
6	770	137	135	140	80	255	215	175	28	30	60	24		
7	845	157	160	160	100	300	251	205	35	36	75	28		
8	950	157	160	180	100	300	251	205	35	36	75	28		
9	1000	182	190	205	120	370	295	240	40	45	90	36		
10	1100	182	190	205	120	380	295	240	40	45	90	36		
11	1200	218	220	255	150	430	325	280	50	54	100	40		
12	1355	218	220	255	150	430	325	280	50	54	100	40		

规格 Size	尺寸 mm 减速器										Dimensions in mm Gear units			
	E	g	h	H	m ₁	m ₃	n ₁	n ₂	n ₃	n ₄	s			
5	405	97.5	230	512	480	220	105	100	455	180	19			
6	440	97.5	230	512	560	220	105	145	490	180	19			
7	495	114	280	602	605	260	120	130	560	215	24			
8	540	114	280	617	710	260	120	190	605	215	24			
9	580	140	320	697	710	320	145	155	660	245	28			
10	630	145	320	697	810	320	145	205	710	245	28			
11	705	161	380	817	870	370	165	180	805	300	35			
12	775	161	380	825	1025	370	165	265	875	300	35			

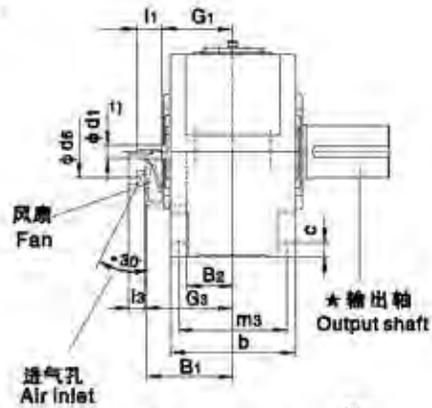
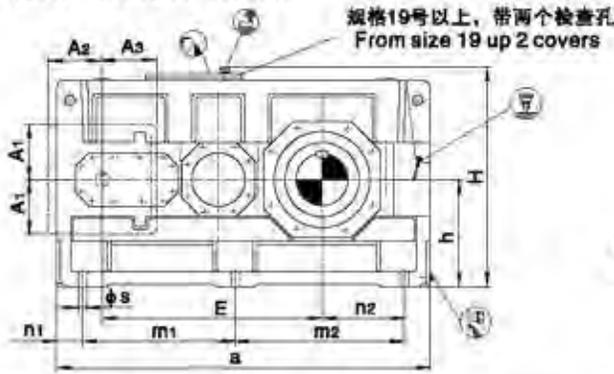
规格 Size	尺寸 mm 输出轴															润滑油 Lubrication (L)	重量/Weight (kg)		
	TH3SH					TH3HH			TH3DH			TH3FH					TH3KH	TH3SH TH3HH TH3DH	TH3FH
	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅	c	d ₂	D ₃	k ₂	n×s	l					G_{7}
5	100	165	210	95	165	100	100	165	240	25	300	150	260	16×22	10	255	15	320	355
6	110	165	210	105	165	110	110	165	240	25	320	160	280	18×22	10	255	17	365	405
7	120	195	210	115	195	120	120	195	280	30	370	180	320	16×26	10	300	28	540	590
8	130	195	250	125	195	130	130	195	285	30	390	190	340	18×26	10	300	30	625	675
9	140	235	250	135	235	140	145	235	330	38	430	220	380	20×26	12	350	45	875	960
10	160	235	300	150	235	150	155	235	350	38	470	240	420	22×26	12	350	46	1020	1110
11	170	270	300	165	270	165	170	270	400	42	510	260	450	18×33	12	400	85	1400	1530
12	180	270	300	180	270	180	185	270	405	42	540	280	480	22×33	12	400	90	1675	1815

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THTB
(103-106)
页
See page
THTB
103-106

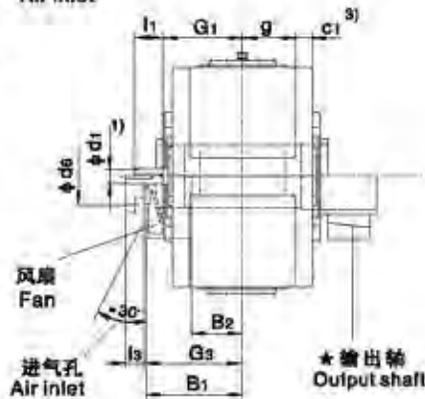
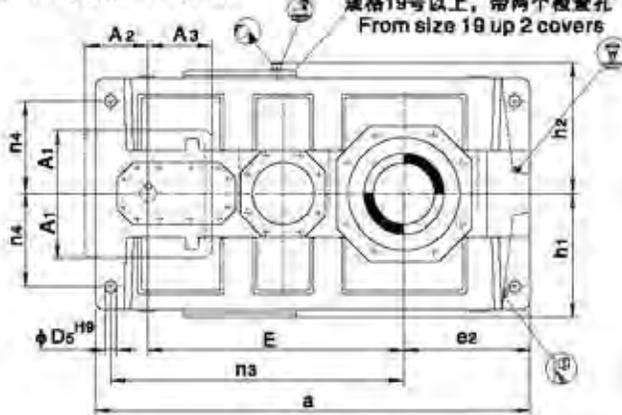
平行轴减速器
 三级传动
 卧式安装
 类型 TH3.H, TH3.M
 规格 13...22

Helical Gear Units
 Three Stage
 Horizontal
 Types TH3.H, TH3.M
 Sizes 13...22

TH3SH TH3HH TH3DH TH3FH



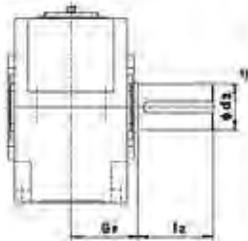
TH3HM TH3DM TH3FM



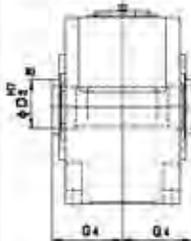
★ 输出轴

★ Output shaft

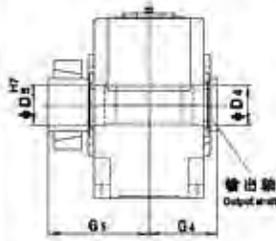
TH3SH
 实心轴
 Solid shaft



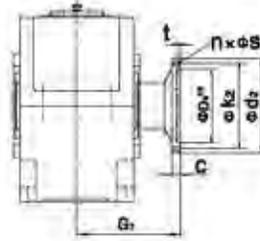
TH3HH TH3HM
 空心轴
 Hollow shaft



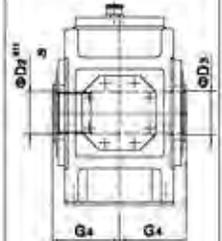
TH3DH TH3DM
 带胀紧盘的空心轴
 Hollow shaft for shrink disk



TH3FH TH3FM
 法兰轴
 Flanged shaft



TH3KH
 花键空心轴
 Hollow shaft



- 1) .m6 ≤ Φ100 n6 > Φ100
 有关键和中心孔, 参见第 2 页
- 2) 键槽 GB/T1095-1979
- 3) 扭力支撑位于工作机侧

- 1) .m6 ≤ Φ100 n6 > Φ100
 For parallel key and for centre hole, see page 2
- 2). Keyway GB/T 1095-1979
- 3). Torque support on driven machine side

外形安装尺寸
Mounting Dimension Sheets—overview



平行轴减速器
三级传动
卧式安装
类型 TH3.H, TH3.M
规格 13...22

Helical Gear Units
Three Stage
Horizontal
Types TH3.H, TH3.M
Sizes 13...22

规格 Size	尺寸 mm 输入轴															Dimensions in mm Input shaft				
	i _v =22.4-45			i _v =25-50 i _v =28-56 ¹⁾			i _v =50-63			i _v =56-71 i _v =63-80 ¹⁾			i _v =71-90			i _v =80-100 i _v =90-112 ¹⁾			G ₁	G ₂
	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂		
13	65	160	130				60	135	105				50	110	80				310	385
14				85	160	130				80	135	105				50	110	80	310	385
15	100	200	165				75	140	105				60	140	105				350	420
16				100	200	165				75	140	105				60	140	105	350	420
17	100	200	165				75	140	105				60	140	105				380	450
18				100	200	165				75	140	105				60	140	105	380	450
19	110	200	4)				90	165	4)				75	140	4)				430	4)
20				110	200	4)				90	165	4)				75	140	4)	430	4)
21	130	240	4)				110	205	4)				90	170	4)				470	4)
22				130	240	4)				110	205	4)				90	170	4)	470	4)

1) 仅指规格14号减速器 1) Only size 14

规格 Size	尺寸 mm 减速器										Dimensions in mm Gear units			
	a	A ₁	A ₂	A ₃	b	B ₁	B ₂	c	c ₁	d ₅	D ₅	ø ₂	E	
13	1395	225	225	212	550	380	195	60	61	120	48	405	820	
14	1535	225	225	212	550	380	195	60	61	120	48	475	890	
15	1680	270	265	252	625	415	205	70	72	150	55	485	987	
16	1770	270	265	252	625	415	205	70	72	150	55	530	1033	
17	1770	270	265	252	690	445	235	80	81	150	55	525	1035	
18	1890	270	265	252	690	445	235	80	81	150	55	585	1095	
19	2030				780			90	91		65	590	1190	
20	2150				780			90	91		65	650	1250	
21	2340	4)	4)	4)	830	4)	4)	100	100	4)	75	655	1387	
22	2450				830			100	100		75	710	1442	

4) 根据用户要求供货 4) On request

规格 Size	尺寸 mm 减速器										Dimensions in mm Gear units				
	g	h	h ₁	h ₂	H	m ₁	m ₂	m ₃	n ₁	n ₂	n ₃	n ₄	s		
13	214	440	450	495	935	597.5	597.5	475	100	305	940	340	35		
14	214	440	450	495	935	597.5	737.5	475	100	375	1010	340	35		
15	240.5	500	490	535	1035	720	720	535	120	365	1135	375	42		
16	240.5	500	490	535	1035	720	810	535	120	410	1180	375	42		
17	264	550	555	595	1145	750	750	600	135	390	1175	425	42		
18	264	550	555	595	1145	750	870	600	135	450	1235	425	42		
19	304	620	615	655	1275	860	860	690	155	435	1365	475	48		
20	304	620	615	655	1275	860	980	690	155	495	1425	475	48		
21	315	700	685	725	1425	1000	1000	720	170	485	1615	520	56		
22	315	700	685	725	1425	1000	1110	720	170	540	1670	520	56		

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TH

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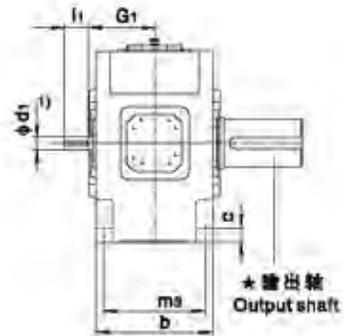
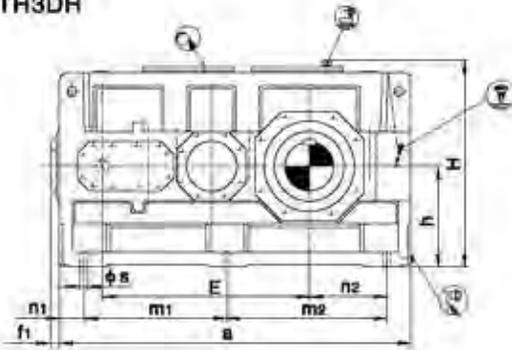
规格 Size	尺寸 mm 输出轴														Dimensions in mm Output shaft		润滑油 Lubrication		重量 / Weight (kg)			
	TH3SH		TH3HH TH3HM		TH3DH		TH3DM		TH3FH		TH3FM		TH3KH TH3KM		TH3.H	TH3.M	TH3SH TH3HH TH3DH	TH3HM TH3DM	TH3FH	TH3FM		
	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₆	c	d ₂	D ₃	k ₂	n × s	t	G ₇	(L)	(L)				
13	200	335	350	190	335	190	195	335	480	48	580	310	500	20 × 33	14	480	160	125	2295	2155	2455	2305
14	210	335	350	210	335	210	215	335	480	48	620	310	540	24 × 33	14	480	165	130	2625	2490	2795	2660
15	230	380	410	230	380	230	235	380	550	55	710	360	630	28 × 33	17	550	235	190	3475	3260	3715	3500
16	240	380	410	240	380	240	245	380	550	55	740	360	660	30 × 33	17	550	245	195	3875	3625	4130	3880
17	250	415	410	250	415	250	260	415	600	60	750	410	660	24 × 39	18	600	305	240	4560	4250	4860	4550
18	270	415	470	275	415	280	285	415	600	60	800	410	710	26 × 39	18	600	315	250	5030	4740	5380	5090
19	290	465	470	-	-	285	295	465	670	65	860	460	770	30 × 39	18	670	420	390	6700	6200	-	-
20	300	465	500	-	-	310	315	465	670	65	930	460	830	32 × 39	18	670	450	415	8100	7600	-	-
21	320	490	500	-	-	330	335	490	715	75	950	520	850	28 × 45	20	710	470	515	9100	8500	-	-
22	340	490	550	-	-	340	345	490	725	75	1040	520	940	28 × 45	20	710	490	540	9800	9300	-	-

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THTB
(103-109)
页
See page
THTB
103-106

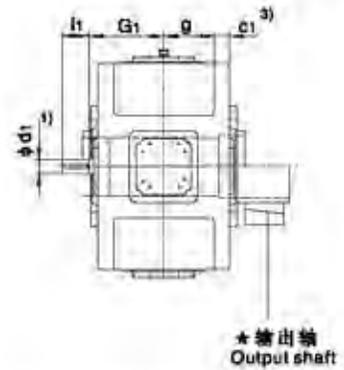
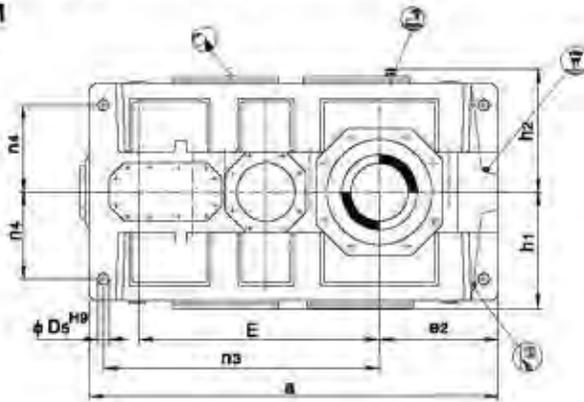
平行轴减速器
 三级传动
 卧式安装
 类型 TH3.H, TH3DM
 规格 23...28

Helical Gear Units
 Three Stage
 Horizontal
 Types TH3.H, TH3DM
 Sizes 23...28

TH3SH TH3DH



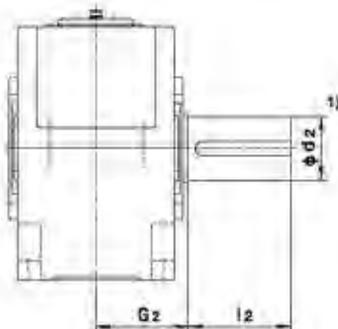
TH3DM



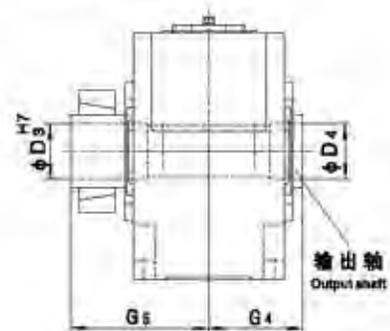
★ 输出轴

★ Output shaft

TH3SH
 实心轴
 Solid shaft



TH3DH TH3DM
 带胀紧盘的空心轴
 Hollow shaft for shrink disk



- 1) $.m6 \leq \Phi 100$ $n6 > \Phi 100$
 有关平键和中心孔, 参见第 2 页
- 2) 键槽 GB/T 1095-1979
- 3) 扭力支撑位于工作机侧

- 1) $.m6 \leq \Phi 100$ $n6 > \Phi 100$
 For parallel key and for centre hole, see page 2
- 2) Keyway GB/T 1095-1979
- 3) Torque support on driven machine side

外形安装尺寸
Mounting Dimension Sheets—overview



平行轴减速器
三级传动
卧式安装
类型 TH3.H, TH3DM
规格 23...28

Helical Gear Units
Three Stage
Horizontal
Types TH3.H, TH3DM
Sizes 23...28

规格 Size	尺寸 mm												Dimensions in mm											
	输入轴												Input shaft											
	i _N =22.4-40		i _N =25-45		i _N =45-56		i _N =50-63		i _N =63-90		i _N =71-100		G ₁											
d ₁	l ₁	d ₁	l ₁	d ₁	l ₁	d ₁	l ₁	d ₁	l ₁	d ₁	l ₁	d ₁		l ₁										
23	130	255			110	220			90	185					515									
24			130	255			110	220			90	185			515									
25	150	255			130	255			100	220					580									
26			150	255			130	255			100	220			580									
27	180	295			150	255			125	255					650									
28			180	295			150	255			125	255			650									

规格 Size	尺寸 mm											Dimensions in mm										
	减速器											Gear units										
	a	b	c	c ₁	D ₅	e ₂	E	f ₁	g	s												
23	2530	930	115	120±2	80	730	1505	35	345	56												
24	2660	930	115	120±2	80	795	1570	35	345	56												
25	2830	1045	130	120±2	90	790	1695	35	402.5	66												
26	3010	1045	130	120±2	90	880	1785	35	402.5	66												
27	3220	1170	150	145±2	100	880	1927	40	440	74												
28	3410	1170	150	145±2	100	975	2022	40	440	74												

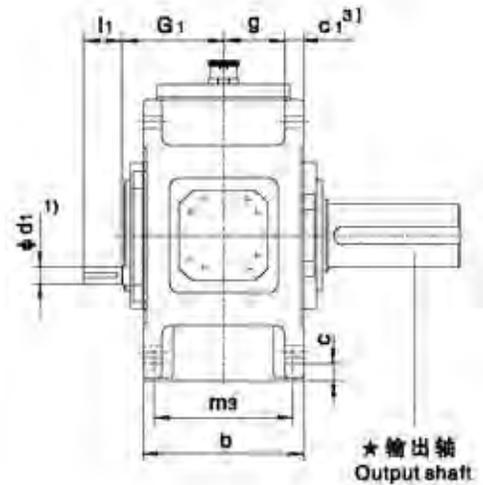
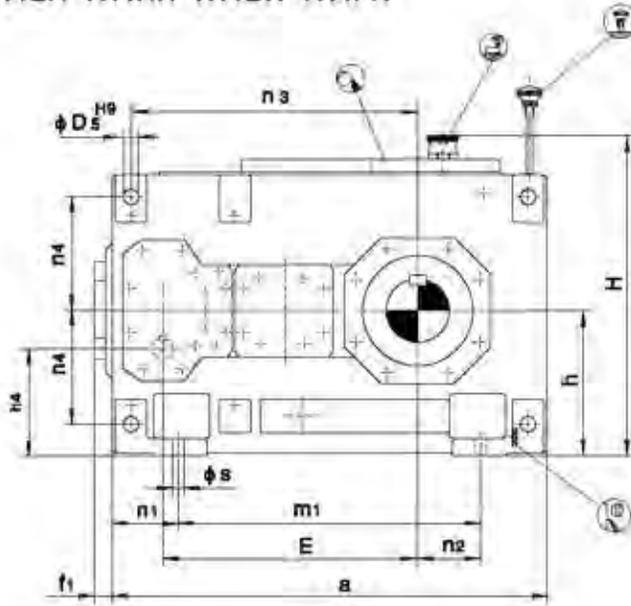
规格 Size	尺寸 mm												Dimensions in mm											
	减速器												Gear units											
	h ₋₁	h ₁	h ₂	H	m ₁	m ₂	m ₃	n ₁	n ₂	n ₃	n ₄													
23	780	765	815	1595	1085	1085	810	180	550	1725	580													
24	780	765	815	1595	1085	1215	810	180	615	1790	580													
25	860	860	910	1770	1215	1215	910	200	590	1965	660													
26	860	860	910	1770	1215	1395	910	200	680	2055	660													
27	950	930	950	1900	1390	1390	1030	220	660	2260	720													
28	950	930	950	1900	1390	1580	1030	220	755	2355	720													

规格 Size	尺寸 mm							润滑油 Lubrication		重量 Weight	
	输出轴							TH3.H (L)	TH3DM (L)	TH3.H (kg)	TH3DM (kg)
	TH3SH			TH3DH, TH3DM							
	d ₂	G ₂	l ₂	D ₃	D ₄	G ₄	G ₅				
23	360	540	590	370	375	540	800	620	690	11800	11200
24	380	540	590	390	395	540	820	650	725	13200	12500
25	400	605	650	410	415	610	895	880	970	16100	15300
26	420	605	650	430	435	610	925	935	1030	17700	16800
27	440	680	690	460	465	680	1000	1270	1410	22700	21700
28	460	680	750	470	475	680	1020	1345	1490	25500	24200

平行轴减速器
 四级传动
 卧式安装
 类型 TH4.H
 规格 7...12

Helical Gear Units
 Four Stage
 Horizontal
 Type TH4.H
 Sizes 7...12

TH4SH TH4HH TH4DH TH4FH



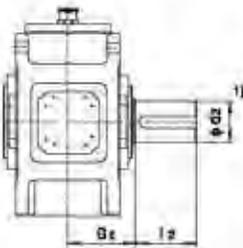
★ 输出轴

★ Output shaft

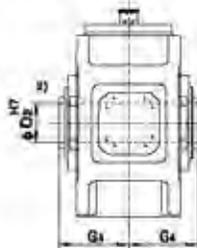
TB
 TH

55

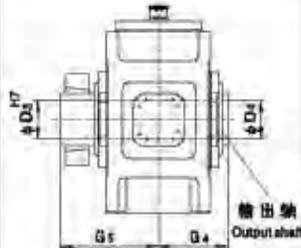
TH4SH
 实心轴
 Solid shaft



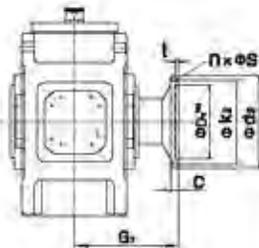
TH4HH
 空心轴
 Hollow shaft



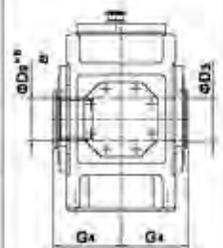
TH4DH
 带胀紧套的空心轴
 Hollow shaft for shrink disk



TH4FH
 法兰轴
 Flanged shaft



TH4KH
 花键空心轴
 Hollow shaft



1) .k6 ≤ Φ24 Φ28 ≤ m6 ≤ Φ100 n6 > Φ100

有关平键和中心孔, 参见第 2 页

2) 键槽 GB/T 1095-1979

3) 扭力支撑位于工作机侧

1) .k6 ≤ Φ24 Φ28 ≤ m6 ≤ Φ100 n6 > Φ100

For parallel key and for centre hole, see page 2

2) Keyway GB/T 1095-1979

3) Torque support on driven machine side

外形安装尺寸
Mounting Dimension Sheets—overview



平行轴减速器
四级传动
卧式安装
类型 TH4.H
规格 7...12

Helical Gear Units
Four Stage
Horizontal
Type TH4.H
Sizes 7...12

规格 Size	尺寸 mm								Dimensions in mm	
	输入轴								Input shaft	
	$i_N=100-180$		$i_N=125-224$		$i_N=200-355$		$i_N=250-450$		G ₁	
$d_1^{1)}$	l_1	$d_1^{1)}$	l_1	$d_1^{1)}$	l_1	$d_1^{1)}$	l_1			
7	30	50			24	40			180	
8			30	50			24	40	180	
9	35	60			28	50			215	
10			35	60			28	50	215	
11	45	100			32	80			250	
12			45	100			32	80	250	

规格 Size	尺寸 mm																	Dimensions in mm	
	减速器																	Gear units	
	a	b	c	c_1	D_5	E	f_1	g	h	h_4	H	m_1	m_3	n_1	n_2	n_3	n_4	s	
7	845	300	35	36	28	495	37	114	260	200	602	605	260	120	130	560	215	24	
8	950	300	35	36	28	540	37	114	280	200	617	710	260	120	190	605	215	24	
9	1000	370	40	45	36	580	43	140	320	230	697	710	320	145	155	660	245	28	
10	1100	380	40	45	36	630	43	145	320	230	697	810	320	145	205	710	245	28	
11	1200	430	50	54	40	705	47	161	380	270	817	870	370	165	180	805	300	35	
12	1355	430	50	54	40	775	47	161	380	270	825	1025	370	165	265	875	300	35	

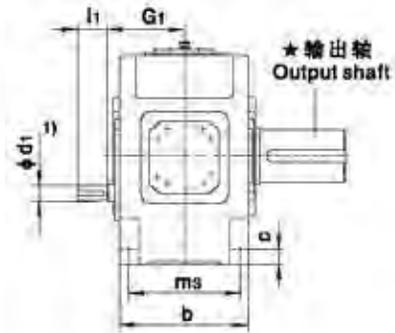
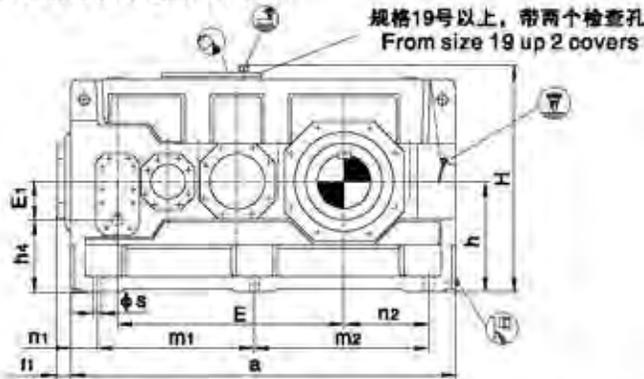
规格 Size	尺寸 mm																Dimensions in mm		润滑油 Lubrication (L)	重量 / Weight kg		
	输出轴																Output shaft			TH4SH	TH4HH	TH4FH
	TH4SH			TH4HH			TH4DH			TH4FH						TH4KH						
$d_2^{1)}$	G_2	l_2	$D_2^{2)}$	G_4	D_3	D_4	G_4	G_5	c	d_2	D_3	k_2	$n \times s$	f	G_7							
7	120	195	210	115	195	120	120	195	280	30	370	180	320	16×26	10	300	见 THTB (103-106) 页 See page THTB 103-106	25	550	600		
8	130	195	250	125	195	130	130	195	285	30	390	190	340	18×26	10	300		27	645	700		
9	140	235	250	135	235	140	145	235	330	38	430	220	380	20×26	12	350		48	875	960		
10	160	235	300	150	235	150	155	235	350	38	470	240	420	22×26	12	350		50	1010	1110		
11	170	270	300	165	270	165	170	270	400	42	510	260	450	18×33	12	400		80	1460	1590		
12	180	270	300	180	270	180	185	270	405	42	540	280	480	22×33	12	400		87	1725	1865		

TB
TH

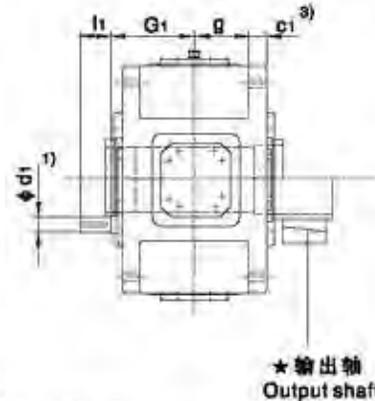
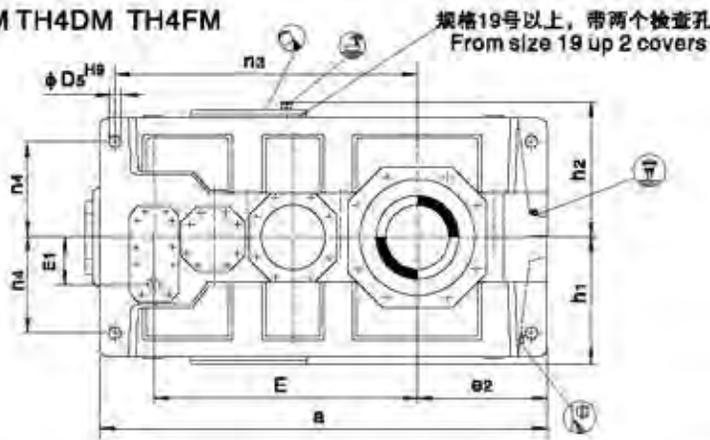
平行轴减速器
 四级传动
 卧式安装
 类型 TH4.H, TH4.M
 规格 13...22

Helical Gear Units
 Four Stage
 Horizontal
 Types TH4.H, TH4.M
 Sizes 13...22

TH4SH TH4HH TH4DH TH4FH



TH4HM TH4DM TH4FM



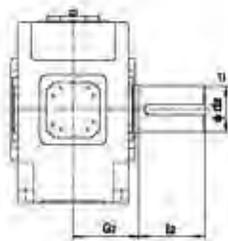
★ 输出轴

★ Output shaft

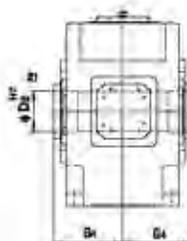
TB
TH

57

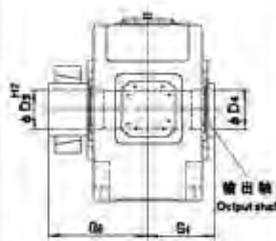
TH4SH
 实心轴
 Solid shaft



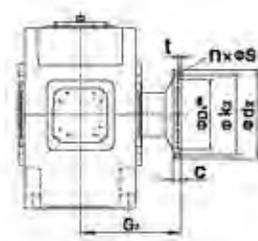
TH4HH TH4HM
 空心轴
 Hollow shaft



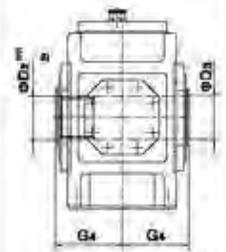
TH4DH TH4DM
 带胀紧套的空心轴
 Hollow shaft for shrink disk



TH4FH TH4FM
 法兰轴
 Flanged shaft



TH4KH
 花键空心轴
 Hollow shaft



- 1). $m6 \leq \Phi 100$ $n6 > \Phi 100$
 有关平键和中心孔, 参见第 2 页
 2). 键槽 GB/T 1095-1979
 3). 扭力支撑位于工作机侧

- 1). $m6 \leq \Phi 100$ $n6 > \Phi 100$
 For parallel key and for centre hole, see page 2
 2). Keyway GB/T 1095-1979
 3). Torque support on driven machine side

外形安装尺寸
Mounting Dimension Sheets—overview



平行轴减速器
四级传动
卧式安装
类型 TH4.H, TH4.M
规格 13...22

Helical Gear Units
Four Stage
Horizontal
Types TH4.H, TH4.M
Sizes 13...22

规格 Size	尺寸 mm Dimensions in mm												
	输入轴 Input shaft						G ₁						
	i _v =100-160		i _v =112-200		i _v =125-224			i _v =200-355		i _v =224-400		i _v =250-450	
d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁		
13	50	100					38	80				305	
14					50	100					38	80	305
15	60	135					50	110					345
16			60	135					50	110			345
17	60	105					50	80					380
18			60	105					50	80			380
19	75	105					60	105					440
20			75	105					60	105			440
21	90	165					70	140					460
22			90	165					70	140			460

规格 Size	尺寸 mm Dimensions in mm										
	减速器 Gear units										
a	b	c	c ₁	D _A	g ₂	E	E ₁	f ₁	g	h	
13	1395	550	60	61	48	405	820	130	47	214	440
14	1535	550	60	61	48	475	890	130	47	214	440
15	1680	625	70	72	55	485	987	160	56	240.5	500
16	1770	625	70	72	55	530	1033	160	56	240.5	500
17	1770	690	80	81	55	525	1035	160	53	264	550
18	1890	690	80	81	55	585	1095	160	53	264	550
19	2030	790	90	91	65	590	1190	185	53	304	620
20	2150	790	90	91	65	650	1250	185	53	304	620
21	2340	830	100	100	75	655	1387	225	62	315	700
22	2450	830	100	100	75	710	1442	225	62	315	700

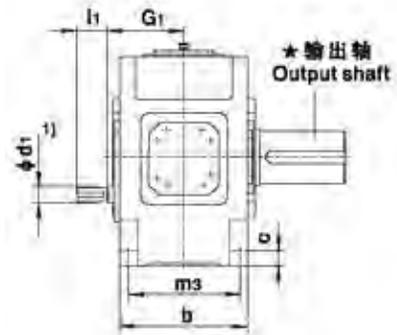
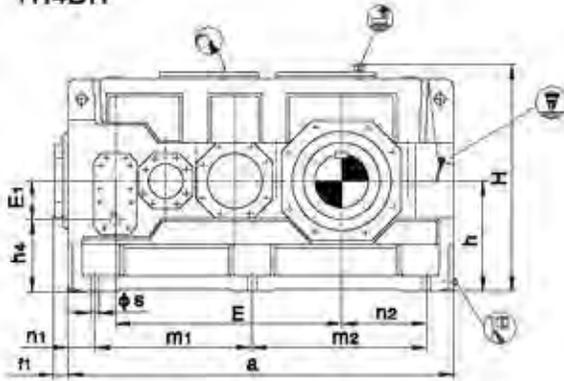
规格 Size	尺寸 mm Dimensions in mm											
	减速器 Gear units											
h ₁	h ₂	h ₄	H	m ₁	m ₂	m ₃	n ₁	n ₂	n ₃	n ₄	s	
13	450	495	310	935	597.5	597.5	475	100	305	940	340	35
14	450	495	310	935	597.5	737.5	475	100	375	1010	340	35
15	490	535	340	1035	720	720	535	120	365	1135	375	42
16	490	535	340	1035	720	810	535	120	410	1180	375	42
17	555	595	390	1145	750	750	600	135	390	1175	425	42
18	555	595	390	1145	750	870	600	135	450	1235	425	42
19	615	655	435	1275	860	860	690	155	435	1365	475	48
20	615	655	435	1275	860	960	690	155	495	1425	475	48
21	685	725	475	1425	1000	1000	720	170	485	1615	520	56
22	685	725	475	1425	1000	1110	720	170	540	1670	520	56

规格 Size	尺寸 mm Dimensions in mm															润滑油 Lubrication		重量 / Weight					
	输出轴 Output shaft															TH4KH TH4KM	TH4.H (L)	TH4.M (L)	kg				
	TH4SH		TH4HH TH4HM		TH4DH		TH4DM		TH4FH TH4FM					TH4H	TH4M				TH4SH TH4HH TH4DH	TH4HM TH4DM	TH4FH	TH4FM	
d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₅	D ₄	G ₄	G ₅	c	d ₂	D ₃	k ₂	n x s	t	G ₇	(L)	(L)						
13	200	335	350	190	335	190	195	335	480	48	580	310	500	20×33	14	480	130	120	2390	2270	2550	2430	
14	210	335	350	210	335	210	215	335	480	48	620	310	540	24×33	14	480	140	125	2730	2600	2900	2770	
15	230	380	410	230	380	230	235	380	550	55	710	360	630	28×33	17	550	230	170	3635	3440	3875	3680	
16	240	380	410	240	380	240	245	380	550	55	740	360	660	30×33	17	550	235	175	3965	3740	4220	3995	
17	250	415	410	250	415	250	260	415	600	60	750	410	660	24×39	18	600	290	225	4680	4445	4980	4745	
18	270	415	470	275	415	280	285	415	600	60	800	410	710	26×39	18	600	305	230	5185	4915	5535	5265	
19	290	465	470	-	-	285	295	465	670	65	860	460	770	30×39	18	670	430	310	6800	6300	-	-	
20	300	465	500	-	-	310	315	465	670	65	930	460	830	32×39	18	670	380	330	8200	7700	-	-	
21	320	490	500	-	-	330	335	490	715	75	950	520	850	28×45	20	710	395	430	9200	8600	-	-	
22	340	490	550	-	-	340	345	490	725	75	1040	520	940	28×45	20	710	420	450	9900	9400	-	-	

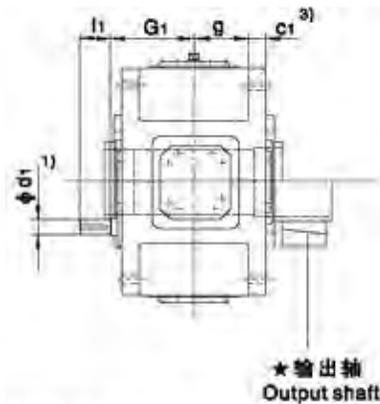
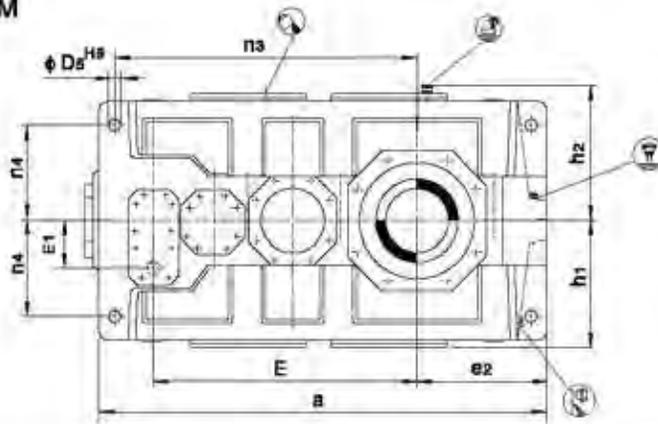
平行轴减速器
 四级传动
 卧式安装
 类型 TH4.H, TH4DM
 规格 23...28

Helical Gear Units
 Four Stage
 Horizontal
 Types TH4.H, TH4DM
 Sizes 23...28

TH4SH TH4DH



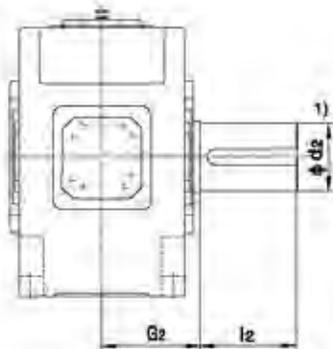
TH4DM



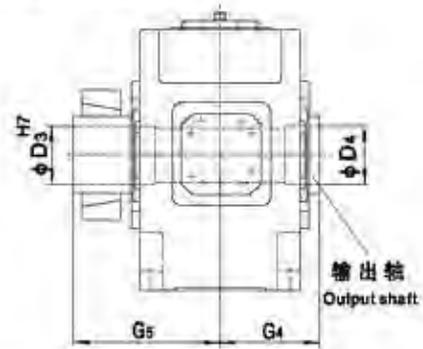
★ 输出轴

★ Output shaft

TH4SH
 实心轴
 Solid shaft



TH4DH TH4DM
 带胀紧盘的空心轴
 Hollow shaft for shrink disk



- 1) .m6 ≤ Φ100 n6 > Φ100
 有关平键和中心孔, 参见第 2 页
 2) .键槽 GB/T1095-1979
 3) .扭力支撑位于工作机侧

- 1) .m6 ≤ Φ100 n6 > Φ100
 For parallel key and for centre hole, see page 2
 2) .Keyway GB/T 1095-1979
 3) .Torque support on driven machine side

外形安装尺寸
Mounting Dimension Sheets—overview



平行轴减速器
四级传动
卧式安装
类型 TH4.H, TH4DM
规格 23...28

Helical Gear Units
Four Stage
Horizontal
Types TH4.H, TH4DM
Sizes 23...28

规格 Size	尺寸 mm								Dimensions in mm	
	输入轴								Input shaft	
	$i_N = 100-160$		$i_N = 112-180$		$i_N = 180-355$		$i_N = 200-400$		G_1	
d_1	l_1	d_1	l_1	d_1	l_1	d_1	l_1			
23	90	165			70	140			515	
24			90	165			70	140	515	
25	100	205			85	170			575	
26			100	205			85	170	575	
27	120	210			100	210			645	
28			120	210			100	210	645	

规格 Size	尺寸 mm												Dimensions in mm	
	减速器												Gear units	
	a	b	c	c_1	D_5	e_2	E	E_1	h_4	f_1	g	s		
23	2530	930	115	120 ± 2	80	730	1505	225	555	35	345	56		
24	2660	930	115	120 ± 2	80	795	1570	225	555	35	345	56		
25	2830	1045	130	120 ± 2	90	790	1695	265	595	35	402.5	66		
26	3010	1045	130	120 ± 2	90	880	1785	265	595	35	402.5	66		
27	3220	1170	150	145 ± 2	100	880	1927	320	630	40	440	74		
28	3410	1170	150	145 ± 2	100	975	2022	320	630	40	440	74		

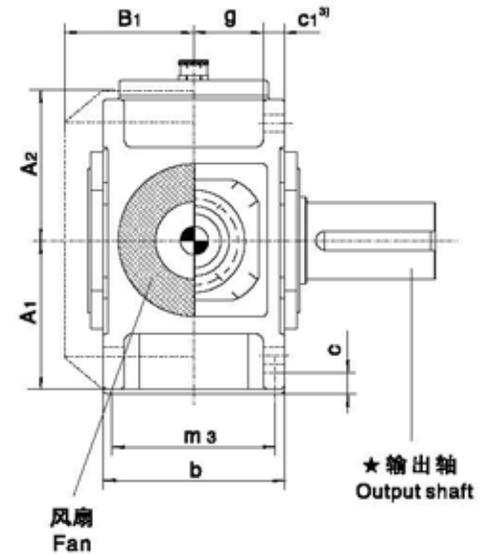
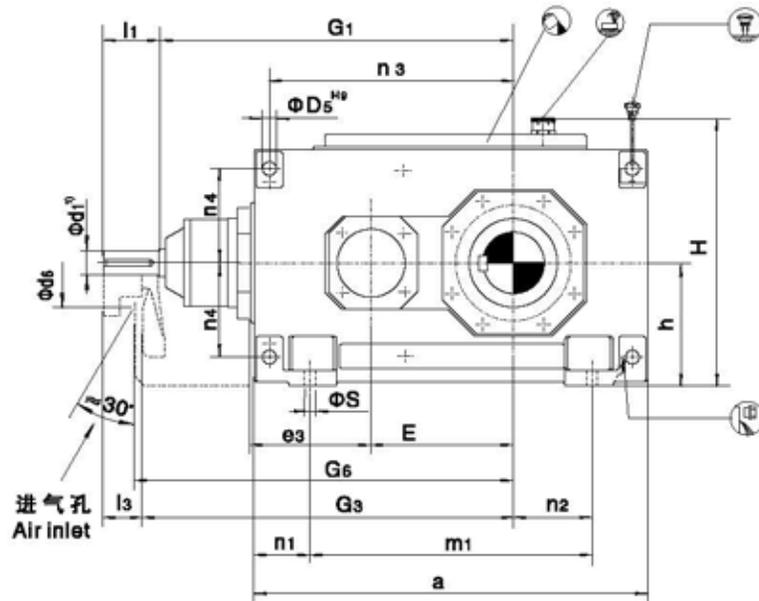
规格 Size	尺寸 mm												Dimensions in mm	
	减速器												Gear units	
	h_{-1}	h_1	h_2	H	m_1	m_2	m_3	n_1	n_2	n_3	n_4			
23	780	765	815	1595	1085	1085	810	180	550	1725	580			
24	780	765	815	1595	1085	1215	810	180	615	1790	580			
25	860	860	910	1770	1215	1215	910	200	590	1965	660			
26	860	860	910	1770	1215	1395	910	200	680	2055	660			
27	950	930	950	1900	1390	1390	1030	220	660	2260	720			
28	950	930	950	1900	1390	1580	1030	220	755	2355	720			

规格 Size	尺寸 mm							Dimensions in mm		润滑油 Lubrication		重量 Weight	
	输出轴							Output shaft		TH4.H (L)	TH4DM (L)	TH4.H (kg)	TH4DM (kg)
	TH4SH			TH4DH, TH4DM									
	d_2	G_2	l_2	D_3	D_4	G_4	G_5						
23	360	540	590	370	375	540	600	520	565	12000	11400		
24	380	540	590	390	395	540	820	550	600	13500	12800		
25	400	605	650	410	415	610	895	735	800	16300	15500		
26	420	605	650	430	435	610	925	780	850	18000	17100		
27	440	680	690	460	465	680	1000	1055	1150	23000	22000		
28	460	680	750	470	475	680	1020	1110	1210	26200	25000		

直交轴减速机
两级传动
卧式安装
类型 TB2.H
规格 1...12

Bevel-helical Gear Units
Two Stage
Horizontal
Type TB2.H
Sizes 1...12

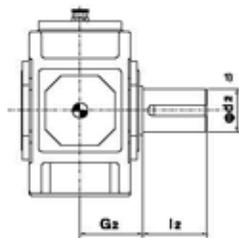
TB2SH TB2HH TB2DH TB2FH



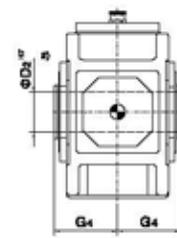
★ 输出轴

★ Output shaft

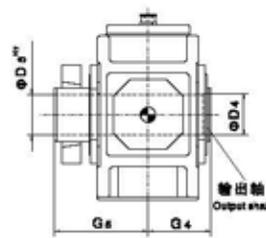
TB2SH
实心轴
Solid shaft



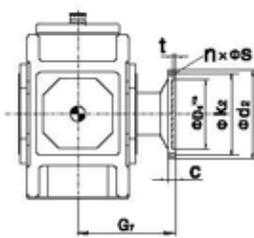
TB2HH
空心轴
Hollow shaft



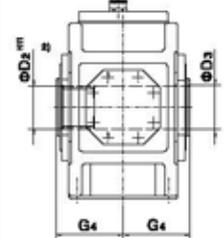
TB2DH
带胀紧盘的空心轴
Hollow shaft for shrink disk



TB2FH⁴⁾
法兰轴
Flanged shaft



TB2KH
花键空心轴
Hollow shaft



1) .k6 ≤ Φ25 Φ28 ≤ m6 ≤ Φ100 n6 > Φ100

有关平键和中心孔, 参见第 2 页

2) .键槽 GB/T1095-1979

3) .扭力支撑位于工作机侧

4) .法兰轴安装尺寸及重量敬请垂询

1) .k6 ≤ Φ25 Φ28 ≤ m6 ≤ Φ100 n6 > Φ100

For parallel key and for centre hole, see page 2

2) .Keyway GB/T 1095-1979

3) .Torque support on driven machine side

4) .Dimensions and weight related to flanged shaft on request

外形安装尺寸
Mounting Dimension Sheets—overview



直交轴减速器
两级传动
卧式安装
类型 TB2.H
规格 1...12

Bevel-helical Gear Units
Two Stage
Horizontal
Type TB2.H
Sizes 1...12

规格 Size	尺寸 mm 输入轴 Input shaft									G ₁	G ₃
	i _N =5-11.2			i _N =6.3-14			i _N =12.5-18				
	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃		
1	28	55	40				20	50	35	300	315
2	30	70	50				25	60	40	340	360
3	35	80	60				28	60	40	390	410
4	45	100	80							465	485
5	55	110	80							535	565
6				55	110	80				570	600
7	70	135	105							640	670
8				70	135	105				685	715
9	80	165	130							755	790
10				80	165	130				805	840
11	90	165	130							925	960
12				90	165	130				995	1030

规格 Size	尺寸 mm 减速器 Gear units											
	a	A ₁	A ₂	b	B ₁	c	c ₁	D ₅	d ₆	e ₃	E	g
1	305	125	130	180	128	18	16	12	110	90	90	74
2	355	140	145	205	143	18	20	14	110	110	110	82.5
3	405	170	170	225	163	22	24	18	120	130	130	88.5
4	505	195	200	270	188	28	30	24	150	160	160	105
5	565	220	235	320	215	28	30	24	160	185	185	130
6	645	220	235	320	215	28	30	24	160	185	220	130
7	690	270	285	380	250	35	36	28	210	225	225	154
8	785	270	285	380	250	35	36	28	210	225	270	154
9	820	310	325	440	270	40	48	36	195	265	265	172
10	920	310	325	440	270	40	48	36	195	265	315	172
11	975	370	385	530	328	50	54	40	210	320	320	211
12	1130	370	385	530	328	50	54	40	210	320	390	211

规格 Size	尺寸 mm 减速器 Gear units										
	G ₆	h	H	m ₁	m ₃	n ₁	n ₂	n ₃	n ₄	s	
1	325	130	305	185	155	60	70	160	105	12	
2	370	145	335	225	180	65	75	195	115	12	
3	420	175	390	245	195	80	70	235	132.5	15	
4	495	200	445	295	235	105	85	285	150	19	
5	575	230	512	355	285	105	100	330	180	19	
6	610	230	512	435	285	105	145	365	180	19	
7	685	280	612	450	340	120	130	405	215	24	
8	730	280	617	555	340	120	190	450	215	24	
9	805	320	697	530	390	145	155	480	245	28	
10	855	320	697	630	390	145	205	530	245	28	
11	980	380	825	645	470	165	180	580	300	35	
12	1050	380	825	800	470	165	265	650	300	35	

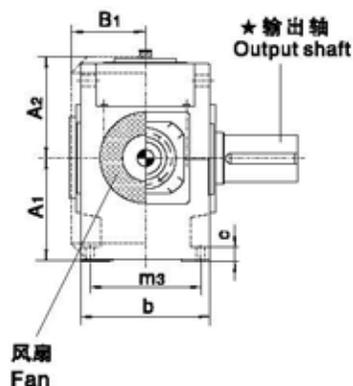
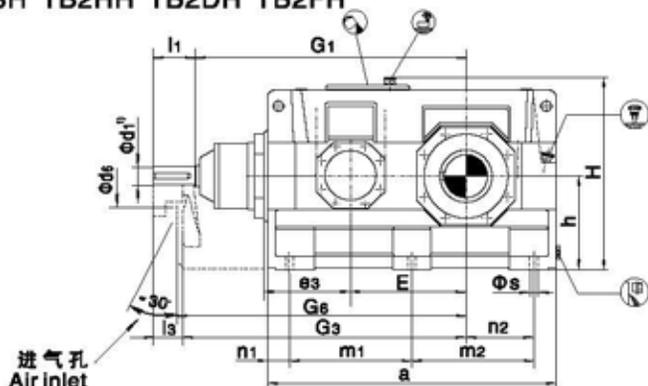
规格 Size	尺寸 mm 输出轴 Output shaft									润滑油 Lubrication (L)	重量 Weight (kg)
	TB2SH			TB2HH		TB2DH			TB2KH		
	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄				G_{5}
1	45	120	80							2	65
2	55	135	110	55	135	60	60	135	180	4	90
3	65	145	140	65	145	70	70	145	200	6	140
4	80	170	170	80	170	85	85	170	235	10	235
5	100	200	210	95	200	100	100	200	275	16	360
6	110	200	210	105	200	110	110	200	275	19	410
7	120	235	210	115	235	120	120	235	320	31	615
8	130	235	250	125	235	130	130	235	325	34	700
9	140	270	250	135	270	140	145	270	365	48	1000
10	160	270	300	150	270	150	155	270	385	50	1155
11	170	320	300	165	320	165	170	320	450	80	1640
12	180	320	300	180	320	180	185	320	455	95	1910

见
THTB
(103-106)
页
See page
THTB
103-106

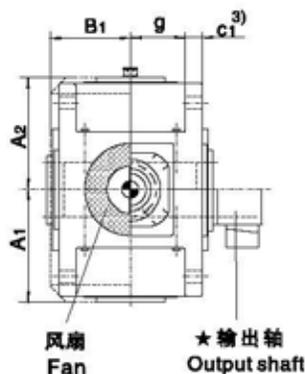
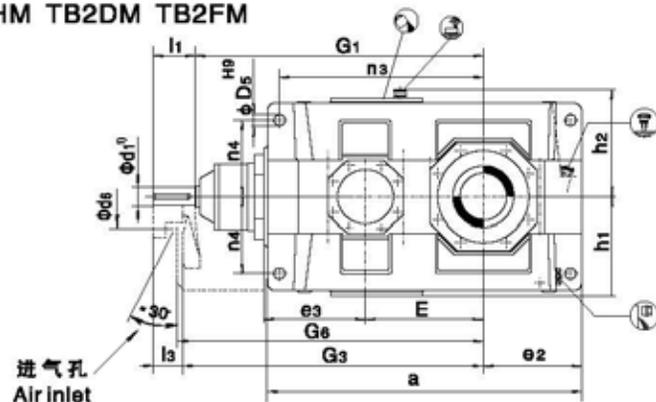
直交轴减速器
两级传动
卧式安装
类型 TB2.H, TB2.M
规格 13...18

Bevel-helical Gear Units
Two Stage
Horizontal
Types TB2.H, TB2.M
Sizes 13...18

TB2SH TB2HH TB2DH TB2FH



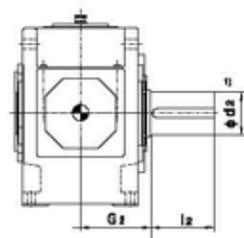
TB2HM TB2DM TB2FM



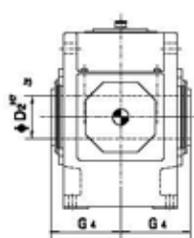
★ 输出轴

★ Output shaft

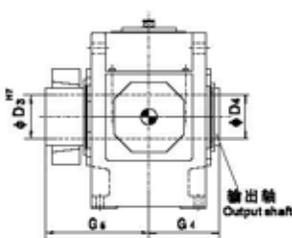
TB2SH
实心轴
Solid shaft



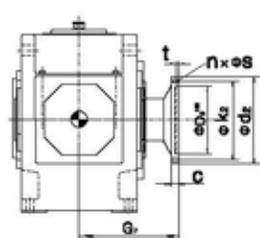
TB2HH TB2HM
空心轴
Hollow shaft



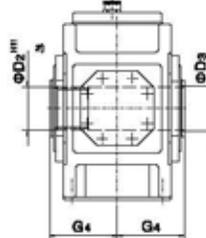
TB2DH TB2DM
带胀紧盘的空心轴
Hollow shaft for shrink disk



TB2FH TB2FM⁴⁾
法兰轴
Flanged shaft



TB2KH
花键空心轴
Hollow shaft



1) .m6 ≤ Φ100 n6 > Φ100
有关平键和中心孔, 参见第 2 页

2) 键槽 GB/T 1095-1979

3) 扭力支撑位于工作机侧

4) 法兰轴安装尺寸及重量敬请垂询

1) .m6 ≤ Φ100 n6 > Φ100

For parallel key and for centre hole, see page 2

2) Keyway GB/T 1095-1979

3) Torque support on driven machine side

4) Dimensions and weight related to flanged shaft on request

外形安装尺寸
Mounting Dimension Sheets—overview



直交轴减速器
两级传动
卧式安装
类型 TB2.H, TB2.M
规格 13...18

Bevel-helical Gear Units
Two Stage
Horizontal
Types TB2.H, TB2.M
Sizes 13...18

规格 Size	尺寸 mm 输入轴															Dimensions in mm Input shaft	
	$i_N=5-11.2$			$i_N=5.6-11.2$			$i_N=5.6-12.5$			$i_N=6.3-14$			$i_N=7.1-12.5$			G_1	G_3
	$d_1^{(1)}$	l_1	l_3	$d_1^{(1)}$	l_1	l_3	$d_1^{(1)}$	l_1	l_3	$d_1^{(1)}$	l_1	l_3	$d_1^{(1)}$	l_1	l_3		
13	110	205	165													1070	1110
14										110	205	165				1140	1180
15	130	245	200													1277	1322
16							130	245	200							1323	1368
17				150	245	200										1435	1480
18													150	245	200	1495	1540

规格 Size	尺寸 mm 减速器														Dimensions in mm Gear units	
	a	A_1	A_2	b	B_1	c	c_1	d_4	D_5	e_2	e_3	E	g			
13	1130	430	450	655	375	60	61	245	48	405	380	370	266.5			
14	1270	430	450	655	375	60	61	245	48	475	380	440	266.5			
15	1350	490	495	765	435	70	72	280	55	485	450	442	310.5			
16	1440	490	495	765	435	70	72	280	55	530	450	488	310.5			
17	1490	540	555	885	505	80	81	380	65	525	510	490	361.5			
18	1610	540	555	885	505	80	81	380	65	585	510	550	361.5			

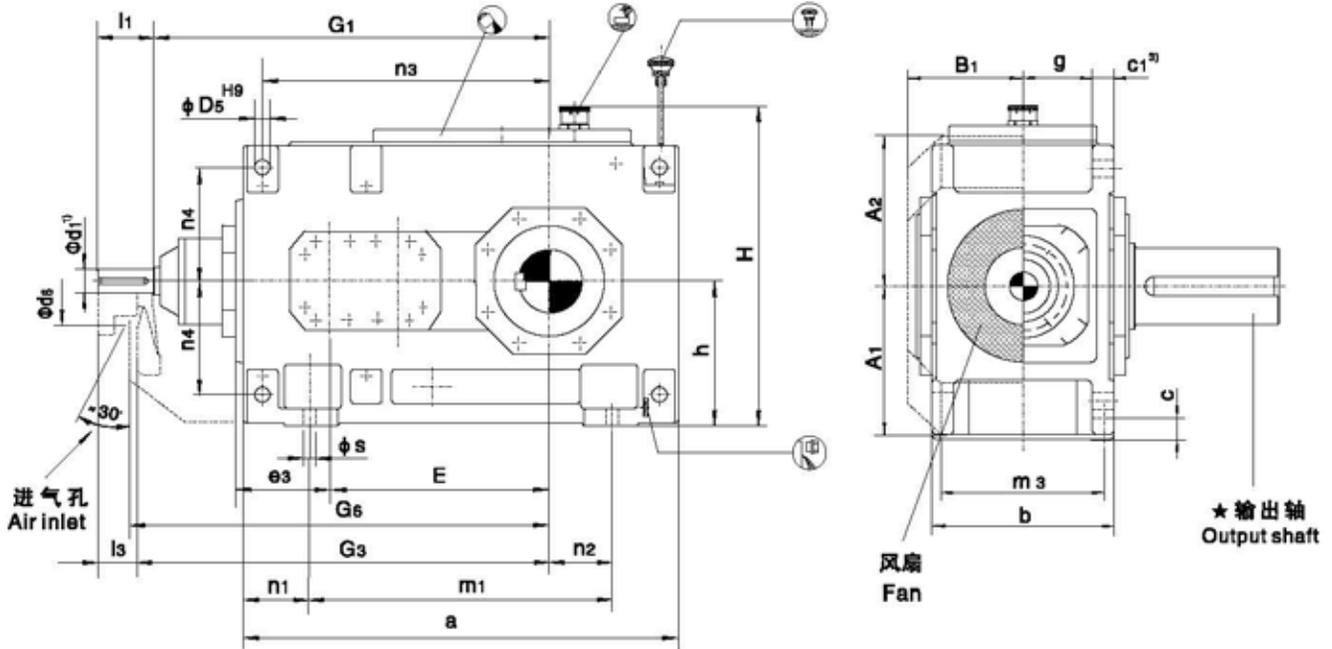
规格 Size	尺寸 mm 减速器														Dimensions in mm Gear units	
	G_6	h	h_1	h_2	H	m_1	m_2	m_3	n_1	n_2	n_3	n_4	s			
13	1130	440	450	495	935	465	465	580	100	305	675	340	35			
14	1200	440	450	495	935	485	605	580	100	375	745	340	35			
15	1340	500	490	535	1035	555	555	670	120	365	805	375	42			
16	1385	500	490	535	1035	555	645	670	120	410	850	375	42			
17	1500	550	555	595	1145	610	610	780	135	390	895	420	48			
18	1560	550	555	595	1145	610	730	780	135	450	955	420	48			

规格 Size	尺寸 mm 输出轴										Dimensions in mm Output shaft		润滑油 Lubrication		重量 Weight	
	TB2SH		TB2HHTB2HM		TB2DH		TB2DM		TB2KH TB2KM		TB2.H (L)	TB2.M (L)	TB2.H (kg)	TB2.M (kg)		
	$d_2^{(1)}$	G_2	l_3	$D_2^{(2)}$	G_4	D_3	D_4	G_4	G_5							
13	200	390	350	-	-	-	-	-	-	见 THTB (103-106) 页 See page THTB 103-106	140	120	2450	2350		
14	210	390	350	210	390	210	215	390	535		155	130	2825	2725		
15	230	460	410	-	-	-	-	-	-		220	180	3990	3795		
16	240	460	410	240	450	240	245	450	620		230	190	4345	4160		
17	250	540	410	-	-	-	-	-	-		320	260	5620	5320		
18	270	540	470	275	510	280	285	510	700		335	275	6150	5860		

直交轴减速器
 三级传动
 卧式安装
 类型 TB3.H
 规格 3...12

Bevel-helical Gear Units
 Three Stage
 Horizontal
 Type TB3.H
 Sizes 3...12

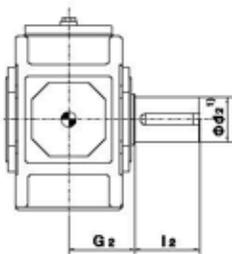
TB3SH TB3HH TB3DH TB3FH



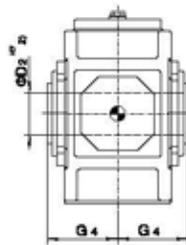
★ 输出轴

★ Output shaft

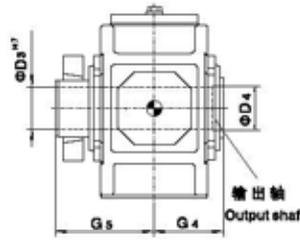
TB3SH
 实心轴
 Solid shaft



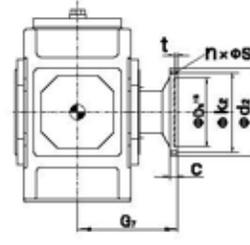
TB3HH
 空心轴
 Hollow shaft



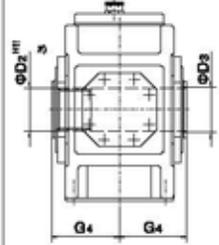
TB3DH
 带胀紧盘的空心轴
 Hollow shaft for shrink disk



TB3FH⁴⁾
 法兰轴
 Flanged shaft



TB3KH
 花键空心轴
 Hollow shaft



1) $.k_6 \leq \phi 25$ $\phi 28 \leq m_6 \leq \phi 100$ $n_6 > \phi 100$

有关平键和中心孔, 参见第 2 页

2) 键槽 GB/T 1095-1979

3) 扭力支撑位于工作机侧

4) 法兰轴安装尺寸及重量敬请垂询

1) $.k_6 \leq \phi 25$ $\phi 28 \leq m_6 \leq \phi 100$ $n_6 > \phi 100$

For parallel key and for centre hole, see page 2

2) Keyway GB/T 1095-1979

3) Torque support on driven machine side

4) Dimensions and weight related to flanged shaft on request

外形安装尺寸
Mounting Dimension Sheets—overview



直交轴减速器
三级传动
卧式安装
类型TB3.H
规格3...12

Bevel-helical Gear Units
Three Stage
Horizontal
Type TB3.H
Sizes 3...12

规格 Size	尺寸 mm Input shaft															G ₁	G ₃
	i _N =12.5-45			i _N =16-56			i _N =20-45			i _N =50-71			i _N =63-90				
	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃		
3							28	55	40	20	50	35				430	445
4	30	70	50							25	60	40				500	520
5	35	80	60							28	60	40				575	595
6				35	80	60							28	60	40	610	630
7	45	100	80							35	80	60				690	710
8				45	100	80							35	80	60	735	755
9	55	110	80							40	100	70				800	830
10				55	110	80							40	100	70	850	880
11	70	135	105							50	110	80				960	990
12				70	135	105							50	110	80	1030	1060

规格 Size	尺寸 mm Gear units											
	a	A ₁	A ₂	b	B ₁	c	c ₁	d _B	D ₅	e ₃	E	g
3	450	170	170	190	128	22	24	90	18	90	220	71
4	565	195	200	215	143	28	30	110	24	110	270	77.5
5	640	220	235	255	168	28	30	130	24	130	315	97.5
6	720	220	235	255	168	28	30	130	24	130	350	97.5
7	785	275	275	300	193	35	36	165	28	160	385	114
8	890	275	275	300	193	35	36	165	28	160	430	114
9	925	315	325	370	231	40	45	175	36	185	450	140
10	1025	315	325	380	231	40	45	175	36	185	500	145
11	1105	370	385	430	263	50	54	190	40	225	545	161
12	1260	370	385	430	263	50	54	190	40	225	615	161

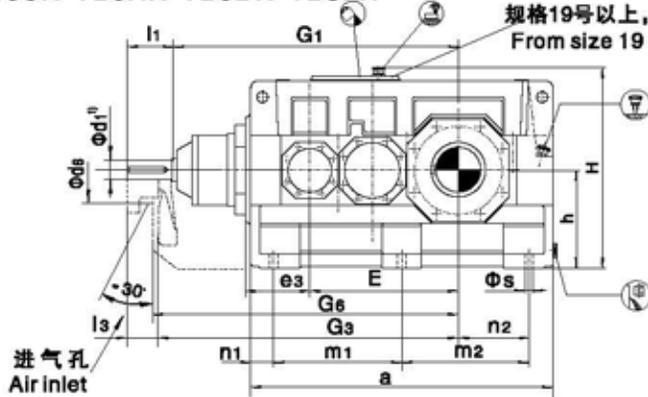
规格 Size	尺寸 mm Gear units									
	G ₆	h	H	m ₁	m ₃	n ₁	n ₂	n ₃	n ₄	s
3	455	175	390	290	160	80	65	285	132.5	15
4	530	200	445	355	180	105	85	345	150	19
5	605	230	512	430	220	105	100	405	180	19
6	640	230	512	510	220	105	145	440	180	19
7	720	280	602	545	260	120	130	500	215	24
8	765	280	617	650	260	120	190	545	215	24
9	845	320	697	635	320	145	155	585	245	28
10	895	320	697	735	320	145	205	635	245	28
11	1010	380	817	775	370	165	180	710	300	35
12	1080	380	825	930	370	165	265	780	300	35

规格 Size	尺寸 mm Output shaft										润滑油 Lubrication (L)	重量 Weight (kg)
	TB3SH			TB3HH		TB3DH			TB3KH			
	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅			
3	65	125	140	65	125	70	70	125	180	见 THTB (103-106) 页 See page THTB 103-106	6	130
4	80	140	170	80	140	85	85	140	205		9	210
5	100	165	210	95	165	100	100	165	240		14	325
6	110	165	210	105	165	110	110	165	240		15	380
7	120	195	210	115	195	120	120	195	280		25	550
8	130	195	250	125	195	130	130	195	285		28	635
9	140	235	250	135	235	140	145	235	330		40	890
10	160	235	300	150	235	150	155	235	350		42	1020
11	170	270	300	165	270	165	170	270	400		66	1455
12	180	270	300	180	270	180	185	270	405		72	1730

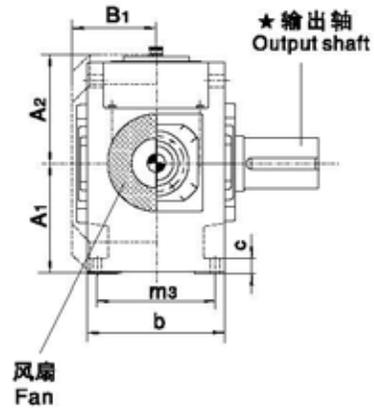
直交轴减速机
 三级传动
 卧式安装
 类型 TB3.H, TB3.M
 规格 13...22

Bevel-helical Gear Units
 Three Stage
 Horizontal
 Types TB3.H, TB3.M
 Sizes 13...22

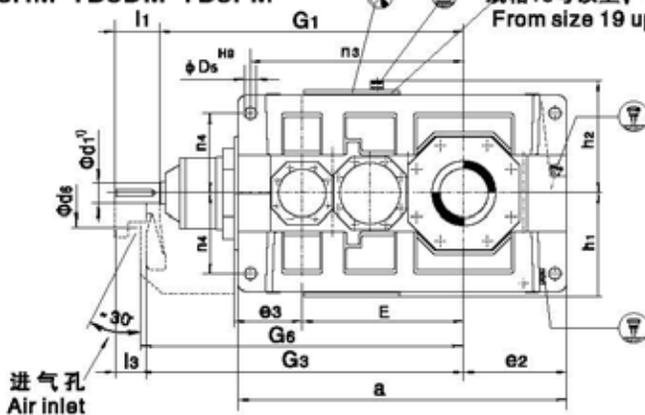
TB3SH TB3HH TB3DH TB3FH



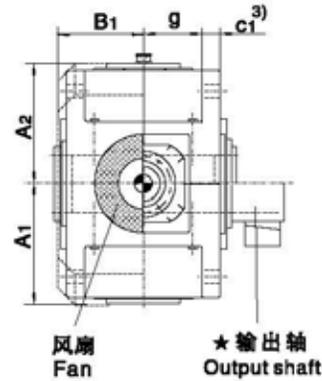
规格19号以上, 带两个检查孔
 From size 19 up 2 covers



TB3HM TB3DM TB3FM



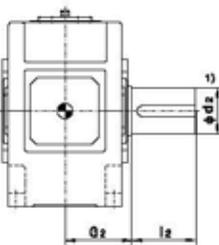
规格19号以上, 带两个检查孔
 From size 19 up 2 covers



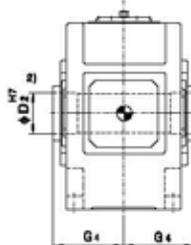
★ 输出轴

★ Output shaft

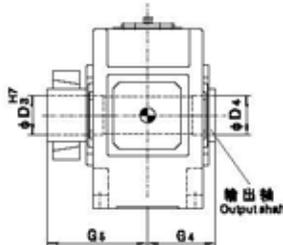
TB3SH
 实心轴
 Solid shaft



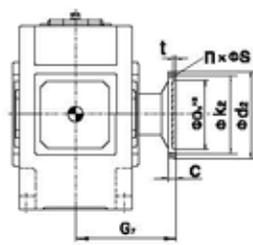
TB3HH TB3HM
 空心轴
 Hollow shaft



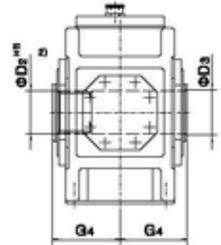
TB3DH TB3DM
 带胀紧套的空心轴
 Hollow shaft for shrink disk



TB3FH TB3FM⁴⁾
 法兰轴
 Flanged shaft



TB3KH
 花键空心轴
 Hollow shaft



- 1) .m6 ≤ Φ100 n6 > Φ100
 有关平键和中心孔, 参见第 2 页
- 2) 键槽 GB/T1095-1979
- 3) 扭力支撑位于工作机侧
- 4) 法兰轴安装尺寸及重量敬请垂询

- 1) .m6 ≤ Φ100 n6 > Φ100
 For parallel key and for centre hole, see page 2
- 2) Keyway GB/T 1095-1979
- 3) Torque support on driven machine side
- 4) Dimensions and weight related to flanged shaft on request

外形安装尺寸
Mounting Dimension Sheets—overview



直交轴减速器
三级传动
卧式安装
类型 TB3.H, TB3.M
规格 13...22

Bevel-helical Gear Units
Three Stage
Horizontal
Types TB3.H, TB3.M
Sizes 13...22

规格 Size	尺寸 mm Input shaft															G ₁	G ₃			
	i _N =12.5-45			i _N =14-50			i _N =16-56			i _N =50-71			i _N =56-80					i _N =63-90		
	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃			d ₁ ¹⁾	l ₁	l ₃
13	80	165	130						60	140	105								1125	1160
14							80	165	130							60	140	105	1195	1230
15	90	165	130							70	140	105							1367	1402
16				90	165	130							70	140	105				1413	1448
17	110	205	165							80	170	130							1560	1600
18				110	205	165							80	170	130				1620	1660
19	130	245	200							100	210	165							1832	1877
20				130	245	200							100	210	165				1892	1937
21	130	245	200							100	210	165							1902	1947
22				130	245	200							100	210	165				1957	2002

规格 Size	尺寸 mm Gear units												
	a	A ₁	A ₂	b	B ₁	c	c ₁	d ₆	D ₅	ø ₂	ø ₃	E	g
13	1290	425	475	550	325	60	61	210	48	405	265	635	214
14	1430	425	475	550	325	60	61	210	48	475	265	705	214
15	1550	485	520	625	365	70	72	210	55	485	320	762	240.5
16	1640	485	520	625	365	70	72	210	55	530	320	808	240.5
17	1740	535	570	690	395	80	81	230	55	525	370	860	264
18	1860	535	570	690	395	80	81	230	55	585	370	920	264
19	2010	610	630	790	448	90	91	245	65	590	420	997	304
20	2130	610	630	790	448	90	91	245	65	650	420	1057	304
21	2140	690	690	830	473	100	100	280	75	655	450	1067	315
22	2250	690	690	830	473	100	100	280	75	710	450	1122	315

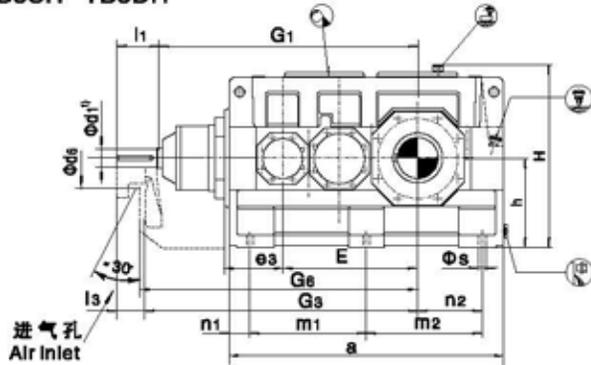
规格 Size	尺寸 mm Gear units												
	G ₆	h	h ₁	h ₂	H	m ₁	m ₂	m ₃	n ₁	n ₂	n ₃	n ₄	s
13	1180	440	450	495	935	545	545	475	100	305	835	340	35
14	1250	440	450	495	935	545	685	475	100	375	905	340	35
15	1420	500	490	535	1035	655	655	535	120	365	1005	375	42
16	1470	500	490	535	1035	655	745	535	120	410	1050	375	42
17	1620	550	555	595	1145	735	735	600	135	390	1145	425	42
18	1680	550	555	595	1145	735	855	600	135	450	1205	425	42
19	1900	620	615	655	1275	850	850	690	155	435	1345	475	48
20	1960	620	615	655	1275	850	970	690	155	495	1405	475	48
21	1970	700	685	725	1425	900	900	720	170	485	1400	520	56
22	2025	700	685	725	1425	900	1010	720	170	540	1455	520	56

规格 Size	尺寸 mm Output shaft									润滑油 Lubrication		重量 Weight		
	TB3SH		TB3HHTB3HM		TB3DH		TB3DM		TB3KM TB3KH	TB3.H	TB3.M	TB3.H	TB3.M	
	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G	D ₃	D ₄	G ₄		G ₅	(L)	(L)	(kg)	(kg)
13	200	335	350	190	335	190	195	335	480	见 THTB (103-106) 页 See page THTB 103-106	130	110	2380	2260
14	210	335	350	210	335	210	215	335	480		140	115	2750	2615
15	230	380	410	230	380	230	235	380	550		210	160	3730	3540
16	240	380	410	240	380	240	245	380	550		220	165	3955	3765
17	250	415	410	250	415	250	260	415	600		290	230	4990	4760
18	270	415	470	275	415	280	285	415	600		300	235	5495	5240
19	290	465	470	-	-	285	295	465	670		380	360	7000	6500
20	300	465	500	-	-	310	315	465	670		440	420	8100	7600
21	320	490	500	-	-	330	335	490	715		370	420	9200	8600
22	340	490	550	-	-	340	345	490	725		430	490	9900	9400

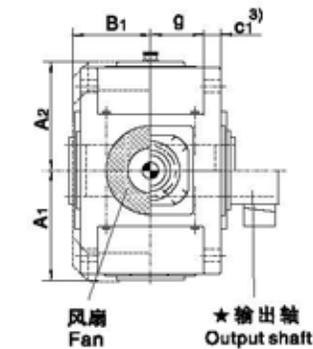
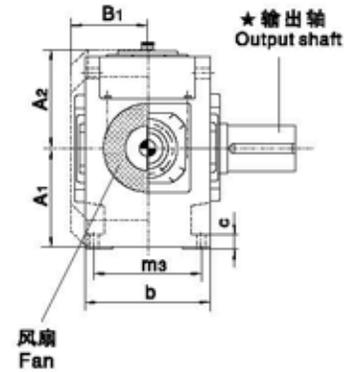
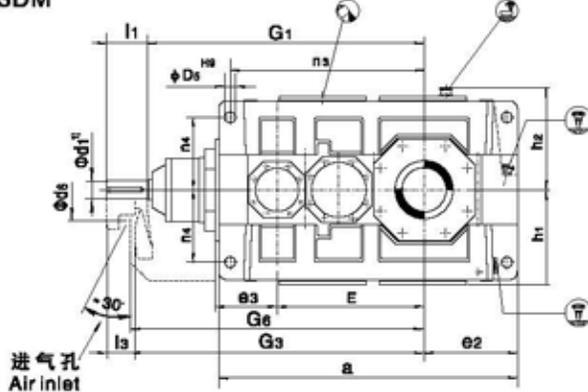
直交轴减速机
三级传动
卧式安装
类型 TB3.H, TB3DM
规格 23...28

Bevel-helical Gear Units
Three Stage
Horizontal
Types TB3.H, TB3DM
Sizes 23...28

TB3SH TB3DH



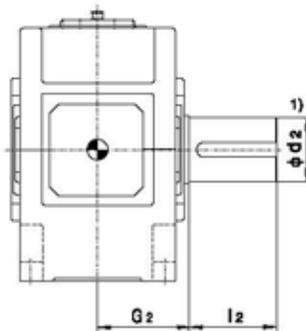
TB3DM



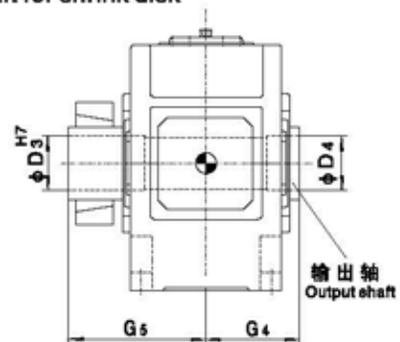
★ 输出轴

★ Output shaft

TB3SH
实心轴
Solid shaft



TB3DH TB3DM
带胀紧盘的空心轴
Hollow shaft for shrink disk



- 1) .m6 ≤ Φ100 n6 > Φ100
有关平键和中心孔, 参见第 2 页
- 2) 键槽 GB/T1095-1979
- 3) 扭力支撑位于工作机侧

- 1) .m6 ≤ Φ100 n6 > Φ100
For parallel key and for centre hole, see page 2
- 2) Keyway GB/T 1095-1979
- 3) Torque support on driven machine side

外形安装尺寸
Mounting Dimension Sheets—overview



直交轴减速器
三级传动
卧式安装
类型 TB3.H, TB3DM
规格 23...28

Bevel-helical Gear Units
Three Stage
Horizontal
Types TB3.H, TB3DM
Sizes 23...28

规格 Size	尺寸 mm												Dimensions in mm	
	输入轴												G ₁	G ₃
	i _N =20-40 (i _N =20-45)			i _N =22.4-45 (i _N =22.4-50)			i _N =45-71 (i _N =50-71)			i _N =50-80 (i _N =56-80)				
d ₁	l ₁	l ₃	d ₁	l ₁	l ₃	d ₁	l ₁	l ₃	d ₁	l ₁	l ₃			
23	150	245	200				110	210	165				2130	2175
24				150	245	200				110	210	165	2195	2240
25	160	295	240				120	220	165				2375	2430
26				160	295	240				120	220	165	2465	2520
27	180	295	240				130	255	200				2625	2680
28				180	295	240				130	255	200	2720	2775

注：括号内传动比为规格23,24减速器

规格 Size	尺寸 mm													Dimensions in mm	
	减速器													G ₆	E
	a	A ₁	A ₂	b	B ₁	c	c ₁	d ₆	D ₅	e ₂	e ₃				
23	2380	720	720	930	515	2208	115	120±2	382	80	730	490	1185		
24	2510	720	720	930	515	2273	115	120±2	382	80	795	490	1250		
25	2645	790	790	1045	575	2435	130	120±2	414	90	790	555	1325		
26	2825	790	790	1045	575	2525	130	120±2	414	90	880	555	1415		
27	2960	870	870	1170	640	2688	150	145±2	446	100	880	625	1485		
28	3150	870	870	1170	640	2783	150	145±2	446	100	975	625	1580		

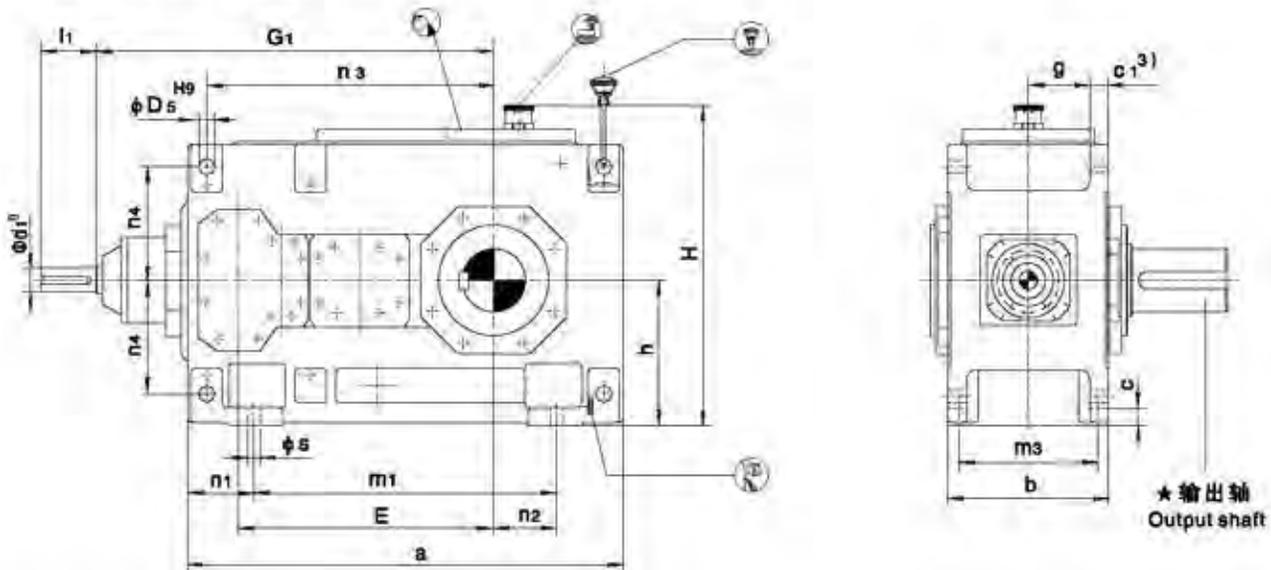
规格 Size	尺寸 mm													Dimensions in mm	
	减速器													m ₃	n ₄
	g	h ₋₁	h ₁	h ₂	H	m ₁	m ₂	n ₁	n ₂	n ₃					
23	345	780	765	815	1595	1010	1010	810	180	550	1560	580	56		
24	345	780	765	815	1595	1010	1140	810	180	615	1625	580	56		
25	402.5	860	860	910	1770	1155	1090	910	200	590	1750	660	66		
26	402.5	860	860	910	1770	1155	1270	910	200	680	1840	660	66		
27	440	950	930	950	1900	1260	1260	1030	220	660	2000	720	74		
28	440	950	930	950	1900	1260	1450	1030	220	755	2095	720	74		

规格 Size	尺寸 mm							润滑油 Lubrication		重量 Weight	
	输出轴							TB3.H (L)	TB3DM (L)	TB3.H (kg)	TB3DM (kg)
	TB3SH			TB3DH, TB3DM							
	d ₂	G ₂	l ₂	D ₃	D ₄	G ₄	G ₅				
23	360	540	590	370	375	540	800	520	560	12000	11400
24	380	540	590	390	395	540	820	600	650	13400	12700
25	400	605	650	410	415	610	895	760	830	16100	15300
26	420	605	650	430	435	610	925	880	960	18000	17000
27	440	680	690	460	465	680	1000	1050	1150	22700	21700
28	460	680	750	470	475	680	1020	1220	1340	25700	24400

直交轴减速器
 四级传动
 卧式安装
 类型 TB4.H
 规格 5...12

Bevel-helical Gear Units
 Four Stage
 Horizontal
 Type TB4.H
 Sizes 5...12

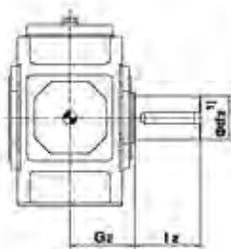
TB4SH TB4HH TB4DH TB4FH



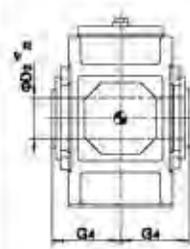
★ 输出轴

★ Output shaft

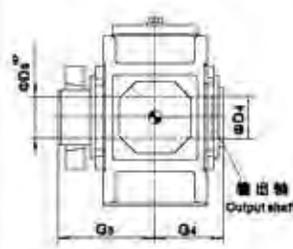
TB4SH
 实心轴
 Solid shaft



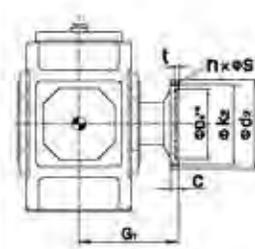
TB4HH
 空心轴
 Hollow shaft



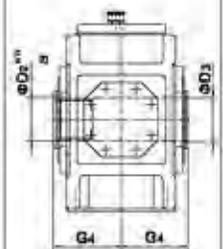
TB4DH
 带胀紧套的空心轴
 Hollow shaft for shrink disk



TB4FH⁴⁾
 法兰轴
 Flanged shaft



TB4KH
 花键空心轴
 Hollow shaft



1) .k6 ≤ φ25 φ28 ≤ m6 ≤ φ100 n6 > φ100
 有关平键和中心孔, 参见第 2 页

2) 键槽 GB/T 1095-1979

3) 扭力支撑位于工作机侧

4) 法兰轴安装尺寸及重量敬请垂询

1) .k5 ≤ φ25 φ28 ≤ m6 ≤ φ100 n6 > φ100

For parallel key and for centre hole, see page 2

2) Keyway GB/T 1095-1979

3) Torque support on driven machine side

4) Dimensions and weight related to flanged shaft on request

外形安装尺寸
Mounting Dimension Sheets—overview



直交轴减速器
四级传动
卧式安装
类型 TB4.H
规格 5...12

Bevel-helical Gear Units
Four Stage
Horizontal
Type TB4.H
Sizes 5...12

规格 Size	尺寸 mm Dimensions in mm								G ₁
	输入轴 Input shaft								
	i _N =80-180		i _N =100-224		i _N =200-315		i _N =250-400		
d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁		
5	28	55			20	50			615
6			28	55			20	50	650
7	30	70			25	60			725
8			30	70			25	60	770
9	35	80			28	60			840
10			35	80			28	60	890
11	45	100			35	80			1010
12			45	100			35	80	1080

规格 Size	尺寸 mm Dimensions in mm															
	减速器 Gear units															
	a	b	c	c ₁	D ₅	E	g	h	H	m ₁	m ₃	n ₁	n ₂	n ₃	n ₄	s
5	690	255	28	30	24	405	97.5	230	512	480	220	105	100	455	180	19
6	770	255	28	30	24	440	97.5	230	512	560	220	105	145	490	180	19
7	845	300	35	36	28	495	114	280	602	605	260	120	130	560	215	24
8	950	300	35	36	28	540	114	280	617	710	260	120	190	605	215	24
9	1000	370	40	45	36	580	140	320	697	710	320	145	155	660	245	28
10	1100	380	40	45	36	630	145	320	697	810	320	145	205	710	245	28
11	1200	430	50	54	40	705	161	380	817	870	370	165	180	805	300	35
12	1355	430	50	54	40	775	161	380	825	1025	370	165	265	875	300	35

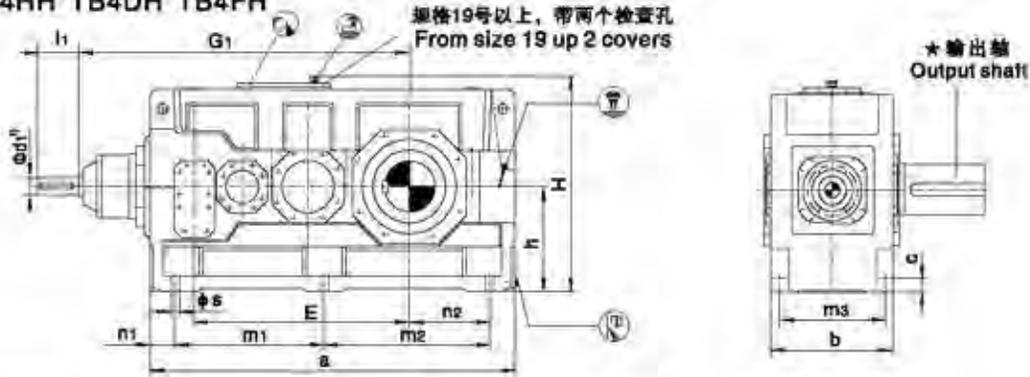
规格 Size	尺寸 mm Dimensions in mm										润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴 Output shaft											
	TB4SH			TB4HH		TB4DH				TB4KH		
d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅				
5	100	165	210	95	165	100	100	165	240	见 (THTB 103-106) 页 See page THTB 103-106	16	335
6	110	165	210	105	165	110	110	165	240		18	385
7	120	195	210	115	195	120	120	195	280		30	555
8	130	195	250	125	195	130	130	195	285		33	655
9	140	235	250	135	235	140	145	235	330		48	890
10	160	235	300	150	235	150	155	235	350		50	1025
11	170	270	300	165	270	165	170	270	400		80	1485
12	180	270	300	180	270	180	185	270	405		90	1750

TB
TH

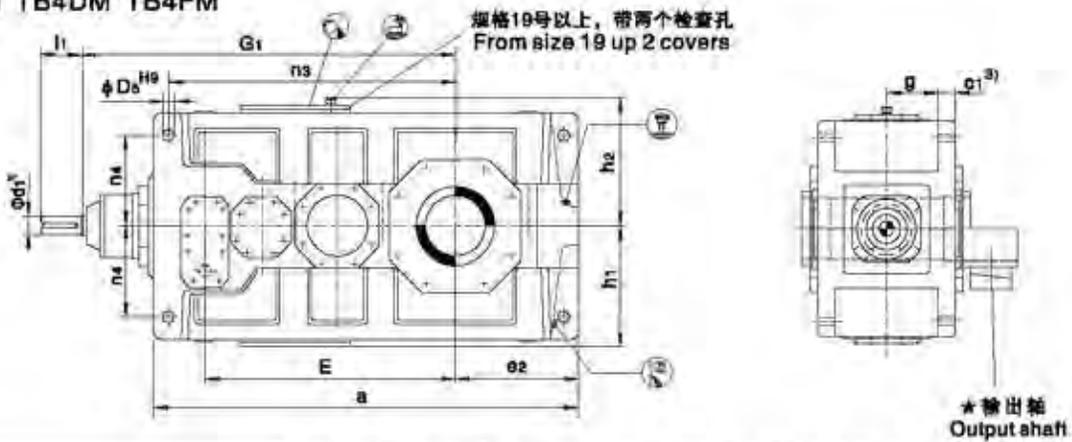
直交轴减速器
 四级传动
 卧式安装
 类型 TB4.H, TB4.M
 规格 13...22

Bevel-helical Gear Units
 Four Stage
 Horizontal
 Types TB4.H, TB4.M
 Sizes 13...22

TB4SH TB4HH TB4DH TB4FH

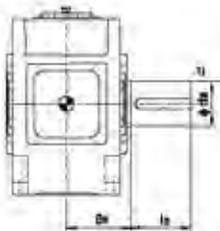


TB4HM TB4DM TB4FM

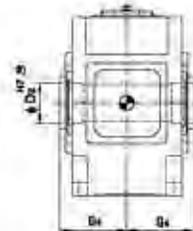


★ 输出轴 ★ Output shaft

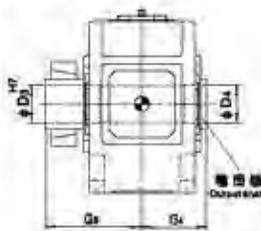
TB4SH
 实心轴
 Solid shaft



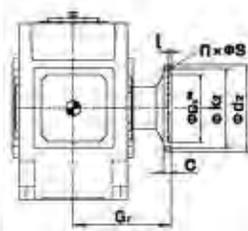
TB4HH TB4HM
 空心轴
 Hollow shaft



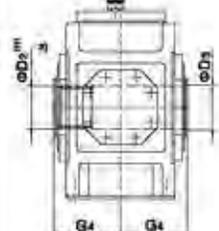
TB4DH TB4DM
 带胀紧盘的
 空心轴
 Hollow shaft for shrink disk



TB4FH TB4FM⁴⁾
 法兰轴
 Flanged shaft



TB4KH
 花键空心轴
 Hollow shaft



- 1) .m6 ≤ Φ100 n6 > Φ100
 有关平键和中心孔, 参见第 页
- 2) 键槽 GB/T1095-1979
- 3) 扭力支撑位于工作机侧
- 4) 法兰轴安装尺寸及重量敬请垂询

- 1) .m6 ≤ Φ100 n6 > Φ100
 For parallel key and for centre hole, see page
- 2) Keyway GB/T 1095-1979
- 3) Torque support on driven machine side
- 4) Dimensions and weight related to flanged shaft on request

外形安装尺寸
Mounting Dimension Sheets—overview



直交轴减速器
四级传动
卧式安装
类型 TB4.H, TB4.M
规格 13...22

Bevel-helical Gear Units
Four Stage
Horizontal
Types TB4.H, TB4.M
Sizes 13...22

规格 Size	尺寸 mm Dimensions in mm											
	输入轴 Input shaft						输出轴 Output shaft					
	i _N =80-180		i _N =90-200		i _N =100-224		i _N =200-315		i _N =224-355		i _N =250-400	
	d ₁ ¹⁾	l ₁	d_{1}^{1)}	l_{1}	d_{1}^{1)}	l_{1}	d_{1}^{1)}	l_{1}	d_{1}^{1)}	l_{1}	d_{1}^{1)}	l_{1}
13	55	110			55	110	40	100			40	100
14												
15	70	135					50	110				
16			70	135					50	110		
17	70	135					50	110				
18			70	135					50	110		
19	80	165					60	140				
20			80	165					60	140		
21	90	165					70	140				
22			90	165					70	140		

规格 Size	尺寸 mm Dimensions in mm										
	减速器 Gear units						输出轴 Output shaft				
	a	b	c	c ₁	D ₅	e ₂	E	g	h	h ₁	
13	1395	550	80	81	48	405	820	214	440	450	
14	1535	550	60	61	48	475	890	214	440	450	
15	1680	625	70	72	55	485	987	240.5	500	490	
16	1770	625	70	72	55	530	1033	240.5	500	490	
17	1770	690	80	81	55	525	1035	264	550	555	
18	1890	690	80	81	55	585	1095	264	550	555	
19	2030	790	90	91	65	590	1190	304	620	615	
20	2150	790	90	91	65	650	1250	304	620	615	
21	2340	830	100	100	75	655	1387	315	700	685	
22	2450	830	100	100	75	710	1442	315	700	685	

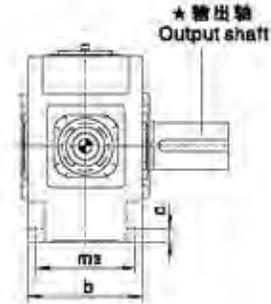
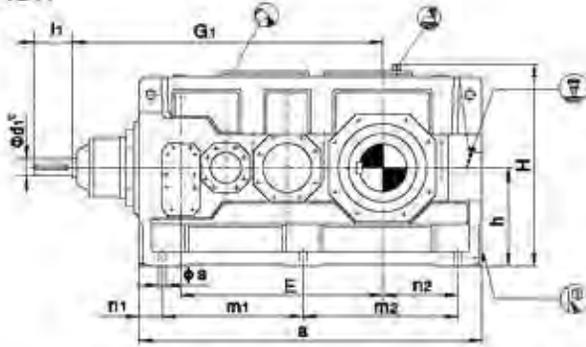
规格 Size	尺寸 mm Dimensions in mm										
	减速器 Gear units						输出轴 Output shaft				
	h ₂	H	m ₁	m ₂	m ₃	n ₁	n ₂	n ₃	n ₄	s	
13	495	935	597.5	597.5	475	100	305	940	340	35	
14	495	935	597.5	737.5	475	100	375	1010	340	35	
15	535	1035	720	720	535	120	365	1135	375	42	
16	535	1035	720	810	535	120	410	1180	375	42	
17	595	1145	750	750	600	135	390	1175	425	42	
18	595	1145	750	870	600	135	450	1235	425	42	
19	655	1275	860	860	690	155	435	1365	475	48	
20	655	1275	860	980	690	155	495	1425	475	48	
21	725	1425	1000	1000	720	170	485	1615	520	56	
22	725	1425	1000	1110	720	170	540	1670	520	56	

规格 Size	尺寸 mm Dimensions in mm										润滑油 Lubrication		重量 Weight	
	输出轴 Output shaft					输出轴 Output shaft					TB4.H	TB4.M	TB4.H	TB4.M
	TB4SH		TB4HH		TB4HM	TB4DH		TB4DM		TB4KM	TB4KH	(L)	(L)	(kg)	(kg)
	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅					
13	200	335	350	190	335	190	195	335	480	见 (THTB 103-106) 页 See page THTB 103-106	145	120	2395	2280
14	210	335	350	210	335	210	215	335	480		150	125	2735	2605
15	230	380	410	230	380	230	235	380	550		230	170	3630	3435
16	240	380	410	240	380	240	245	380	550		235	175	3985	3785
17	250	415	410	250	415	250	260	415	600		295	230	4695	4460
18	270	415	470	275	415	280	285	415	600		305	235	5200	4930
19	290	465	470	-	-	285	295	465	670		480	440	6800	6300
20	300	465	500	-	-	310	315	465	670		550	510	8200	7700
21	320	490	500	-	-	330	335	490	715		540	590	9200	8600
22	340	490	550	-	-	340	345	490	725		620	680	9900	9400

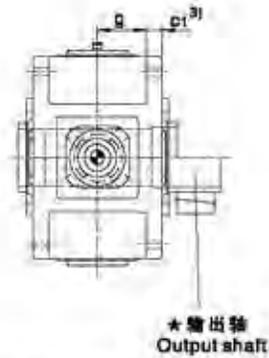
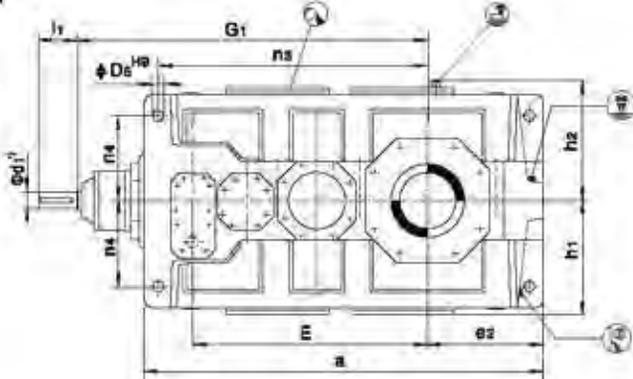
直交轴减速器
 四级传动
 卧式安装
 类型 TB4.H, TB4DM
 规格 23...28

Bevel-helical Gear Units
 Four Stage
 Horizontal
 Types TB4.H, TB4DM
 Sizes 23...28

TB4SH TB4DH



TB4DM



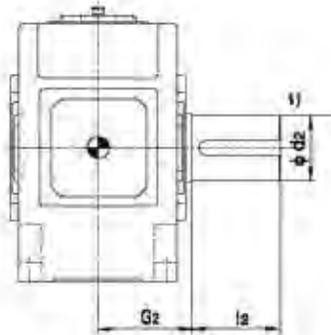
★ 输出轴

★ Output shaft

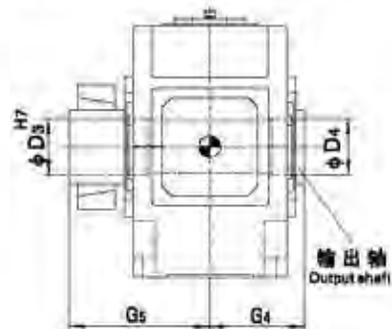
TB
 TH

75

TB4SH
 实心轴
 Solid shaft



TB4DH TB4DM
 带胀紧套的空心轴
 Hollow shaft for shrink disk



- 1) .m6 ≤ Φ100 n6 > Φ100
 有关平键和中心孔, 参见第 2 页
- 2) 键槽 GB/T 1095-1979
- 3) 扭力支撑位于工作机侧

- 1) .m6 ≤ Φ100 n6 > Φ100
 For parallel key and for centre hole, see page 2
- 2) Keyway GB/T 1095-1979
- 3) Torque support on driven machine side

外形安装尺寸
Mounting Dimension Sheets—overview



直交轴减速器
四级传动
卧式安装
类型TB4.H, TB4DM
规格23...28

Bevel-helical Gear Units
Four Stage
Horizontal
Types TB4.H, TB4DM
Sizes 23...28

规格 Size	尺寸 mm								Dimensions in mm	
	输入轴								Input shaft	
	i _N = 80 - 160		i _N = 90 - 180		i _N = 180 - 315		i _N = 200 - 355		G ₁	
d ₁	l ₁	d ₁	l ₁	d ₁	l ₁	d ₁	l ₁			
23	90	165			70	140			2110	
24			90	165			70	140	2175	
25	110	205			80	170			2395	
26			110	205			80	170	2485	
27	130	245			100	210			2762	
28			130	245			100	210	2857	

规格 Size	尺寸 mm								Dimensions in mm	
	减速器								Gear units	
	a	b	c	G ₁	D _s	e ₂	E	g	s	
23	2530	930	115	120±2	80	730	1505	345	56	
24	2660	930	115	120±2	80	795	1570	345	56	
25	2830	1045	130	120±2	90	790	1695	402.5	66	
26	3010	1045	130	120±2	90	880	1785	402.5	66	
27	3220	1170	150	145±2	100	880	1927	440	74	
28	3410	1170	150	145±2	100	975	2022	440	74	

规格 Size	尺寸 mm											Dimensions in mm	
	减速器											Gear units	
	h ₋₁	h ₁	h ₂	H	m ₁	m ₂	m ₃	n ₁	n ₂	n ₃	n ₄		
23	780	765	815	1595	1085	1085	810	180	550	1725	580		
24	780	765	815	1595	1085	1215	810	180	615	1790	580		
25	860	860	910	1770	1215	1215	910	200	590	1965	660		
26	860	860	910	1770	1215	1395	910	200	680	2055	660		
27	950	930	950	1900	1390	1390	1030	220	660	2260	720		
28	950	930	950	1900	1390	1580	1030	220	755	2355	720		

TB
TH

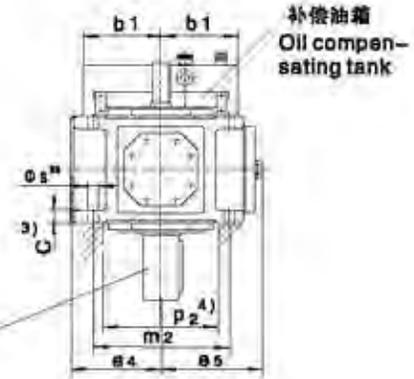
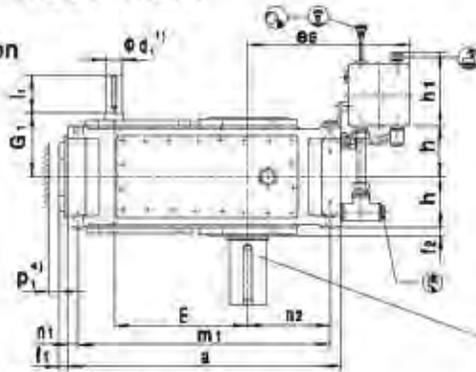
规格 Size	尺寸 mm							Dimensions in mm		润滑油 Lubrication		重量 Weight	
	输出轴							Output shaft		TB4.H (L)	TB4DM (L)	TB4.H (kg)	TB4DM (kg)
	TH4SH			TH4DH, TH4DM									
	d ₂	G ₂	l ₂	D ₃	D ₄	G ₄	G ₅						
23	360	540	590	370	375	540	800	710	790	12000	11400		
24	380	540	590	390	395	540	820	810	910	13500	12800		
25	400	605	650	410	415	610	895	1000	1110	16300	15500		
26	420	605	650	430	435	610	925	1150	1280	18000	17100		
27	440	680	690	460	465	680	1000	1430	1590	23000	22000		
28	460	680	750	470	475	680	1020	1580	1750	26200	25000		

平行轴减速器
两级传动
立式安装
类型 TH2.V
规格 3...12

Helical Gear Units
Two Stage
Vertical
Type TH2.V
Sizes 3...12

TH2SV TH2HV TH2DV TH2FV

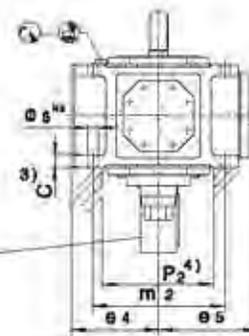
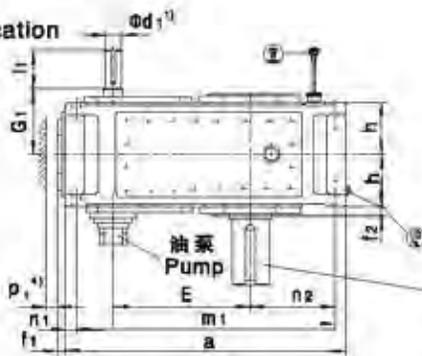
采用浸油润滑
With dip lubrication



★ 输出轴
Output shaft

TH2SV TH2HV TH2DV TH2FV

采用强制润滑
With forced lubrication

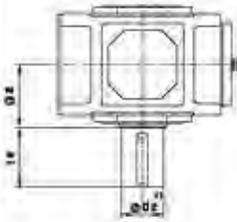


★ 输出轴
Output shaft

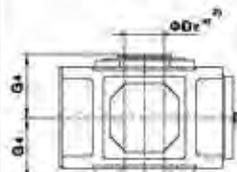
★ 输 出 轴

★ Output shaft

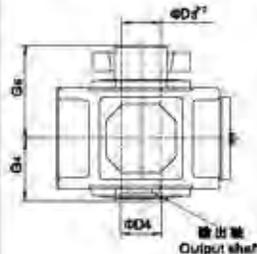
TH2SV
实心轴
Solid shaft



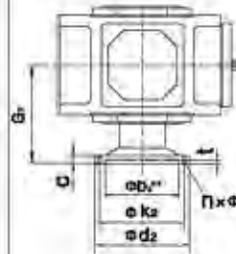
TH2HV
空心轴
Hollow shaft



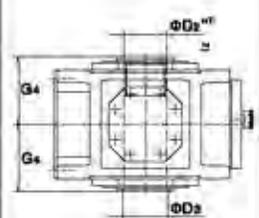
TH2DV
带胀紧盘的空心轴
Hollow shaft for shrink disk



TH2FV 5)
法兰轴
Flanged shaft



TH2KV
花键空心轴
Hollow shaft



- 1) .m6 ≤ Φ100 n6 > Φ100
有关平键和中心孔, 参见第 2 页
- 2) 键槽 GB/T 1095-1979
- 3) 扭力支撑位于工作机侧
- 4) 有关油泵、油管和护盖的安装空间及确切尺寸, 请与我们联系
- 5) 法兰轴安装尺寸及重量敬请垂询

- 1) .m6 ≤ Φ100 n6 > Φ100
For parallel key and for centre hole, see page 2
- 2) Keyway GB/T 1095-1979
- 3) Torque support on driven machine side
- 4) Space for pump, pipes and cover; for exact dimensions, please refer to us
- 5) Dimensions and weight related to flanged shaft on request

外形安装尺寸
Mounting Dimension Sheets—overview



平行轴减速器
两级传动
立式安装
类型 TH2.V
规格 3...12

Helical Gear Units
Two Stage
Vertical
Type TH2.V
Sizes 3...12

规格 Size	尺寸 mm Input shaft								G ₁
	i _N =6.3-11.2		i _N =8-14		i _N =12.5-22.4		i _N =16-28		
	d ₁ ¹⁾	l ₁							
3	35	60			28	50			135
4	45	100			32	80			170
5	50	100			38	80			195
6			50	100			38	80	195
7	60	135			50	110			210
8			60	135			50	110	210
9	75	140			60	140			240
10			75	140			60	140	240
11	90	165			70	140			275
12			90	165			70	140	275

规格 Size	尺寸 mm Gear units									
	a	b ₁	c	e ₄	e ₅	e ₆	E	f ₁	f ₂	
3	450	150	24	175	185	290	220	28	20	
4	565	150	30	200	215	320	270	28	22	
5	640	240	30	230	252	385	315	38	28	
6	720	240	30	230	252	425	350	38	28	
7	785	240	36	280	292	425	385	42	30	
8	890	240	36	280	302	485	430	42	32	
9	925	330	45	320	342	560	450	42	32	
10	1025	330	45	320	342	610	500	42	32	
11	1105	330	54	380	402	595	545	48	35	
12	1260	330	54	380	410	680	615	48	35	

规格 Size	尺寸 mm Gear units									
	h	h ₁	m ₁	m ₂	n ₁	n ₂	p ₁ ⁴⁾	p ₂ ⁴⁾	s	
3	95	165	410	265	20	125	35	210	18	
4	107.5	165	505	300	30	160	35	220	24	
5	127.5	205	580	360	30	175	35	270	24	
6	127.5	205	660	360	30	220	35	270	24	
7	150	205	715	430	35	215	35	330	28	
8	150	205	820	430	35	275	35	330	28	
9	165	275	845	490	40	260	40	370	36	
10	190	275	945	490	40	310	40	370	36	
11	215	275	1005	600	50	295	50	440	40	
12	215	275	1160	600	50	380	50	440	40	

规格 Size	尺寸 mm Output shaft										润滑油 Lubrication		重量 Weight (kg)	
	TH2SV					TH2HV		TH2DV			TH2KV	浸油润滑 Dip lubrication (L)		强制润滑 Forced lubrication (L)
	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅					
3	65	125	140	65	125	70	70	125	180			14	-	115
4	80	140	170	80	140	85	85	140	205			25	-	190
5	100	165	210	95	165	100	100	165	240			35	17.5	300
6	110	165	210	105	165	110	110	165	240			37	18.5	355
7	120	195	210	115	195	120	120	195	280			62	31	505
8	130	195	250	125	195	130	130	195	285			69	35	590
9	140	235	250	135	235	140	145	235	330			100	49	630
10	160	235	300	150	235	150	155	235	350			110	55	960
11	170	270	300	165	270	165	170	270	400			160	80	1335
12	180	270	300	180	270	180	185	270	405			180	90	1615

见
THTB
(103-106)
页
See page
THTB
103-106

外形安装尺寸
Mounting Dimension Sheets—overview



平行轴减速器
两级传动
立式安装
类型 TH2.V
规格 13...18

Helical Gear Units
Two Stage
Vertical
Type TH2.V
Sizes 13...18

规格 Size	尺寸 mm Dimensions in mm												G ₁	
	输入轴 Input shaft													
	i _N =6.3-11.2		i _N =7.1-12.5		i _N =8-14		i _N =12.5-20		i _N =14-22.4		i _N =16-25			
d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	
13	100	205						85	170					330
14					100	205						85	170	330
15	120	210						100	210					365
16			120	210						100	210			365
17	125	245						110	210					420
18			125	245						110	210			420
19														
20														
21														
22														

规格 Size	尺寸 mm Dimensions in mm													
	减速器 Gear units													
a	b	c	E	f ₁	f ₂	h	m ₁	m ₂	n ₁	n ₂	p ₁ ⁴⁾	p ₂ ⁴⁾	s	
13	1290	900	61	635	53	35	275	1195	680	50	360	50	500	48
14	1430	900	61	705	53	35	275	1335	680	50	430	50	500	48
15	1550	980	72	762	63	42	312.5	1435	750	60	430	50	570	55
16	1640	980	72	808	63	42	312.5	1525	750	60	475	50	570	55
17	1740	1110	81	860	60	42	345	1610	850	70	465	70	630	55
18	1860	1110	81	920	60	42	345	1730	850	70	525	70	630	55
19														
20														
21														
22														

规格 Size	尺寸 mm Dimensions in mm										润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴 Output shaft											
	TH2SV			TH2HV ⁵⁾			TH2DV ⁵⁾					
d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅				
13	200	335	350	190	335	190	195	335	480		120	1880
14	210	335	350	210	335	210	215	335	480		135	2430
15	230	380	410	230	380	230	235	380	550		185	3240
16	240	380	410	240	380	240	245	380	550		200	3465
17	250	415	410	250	415	250	260	415	600		265	4420
18	270	415	470	275	415	280	285	415	600		285	4870
19												
20												
21												
22												

见
THTB
(103-106)
页
See page
THTB
103-106

外形安装尺寸
Mounting Dimension Sheets—overview



平行轴减速器
三级传动
立式安装
类型 TH3.V
规格 5...12

Helical Gear Units
Three Stage
Vertical
Type TH3.V
Sizes 5...12

规格 Size	尺寸 mm Dimensions in mm												
	输入轴 Input shaft												
	IN=25-45		IN=31.5-56		IN=50-63		IN=63-80		IN=71-90		IN=90-112		G ₁
d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁		
5	40	70			30	50			24	40			160
6			40	70			30	50			24	40	160
7	45	80			35	60			28	50			185
8			45	80			35	60			28	50	185
9	60	125			45	100			32	80			230
10			60	125			45	100			32	80	230
11	70	120			50	80			42	70			255
12			70	120			50	80			42	70	255

规格 Size	尺寸 mm Dimensions in mm									
	减速器 Gear units									
	a	b ₁	c	e ₄	e ₅	e ₆	E	f ₂	h	
5	690	240	30	230	252	385	405	28	127.5	
6	770	240	30	230	252	425	440	28	127.5	
7	845	240	36	280	292	425	495	30	150	
8	950	240	36	280	312	485	540	32	150	
9	1000	330	45	320	342	560	580	32	185	
10	1100	330	45	320	342	610	630	32	190	
11	1200	330	54	380	402	595	705	35	215	
12	1355	330	54	380	410	680	775	35	215	

规格 Size	尺寸 mm Dimensions in mm								
	减速器 Gear units								
	h ₁	m ₁	m ₂	n ₁	n ₂	p ₁ ⁴⁾	p ₂ ⁴⁾	s	
5	205	630	360	30	175	35	270	24	
6	205	710	360	30	220	35	270	24	
7	205	775	430	35	215	35	330	28	
8	205	880	430	35	275	35	330	28	
9	275	920	490	40	260	40	370	36	
10	275	1020	490	40	310	40	370	36	
11	275	1100	600	50	295	50	440	40	
12	275	1255	600	50	380	50	440	40	

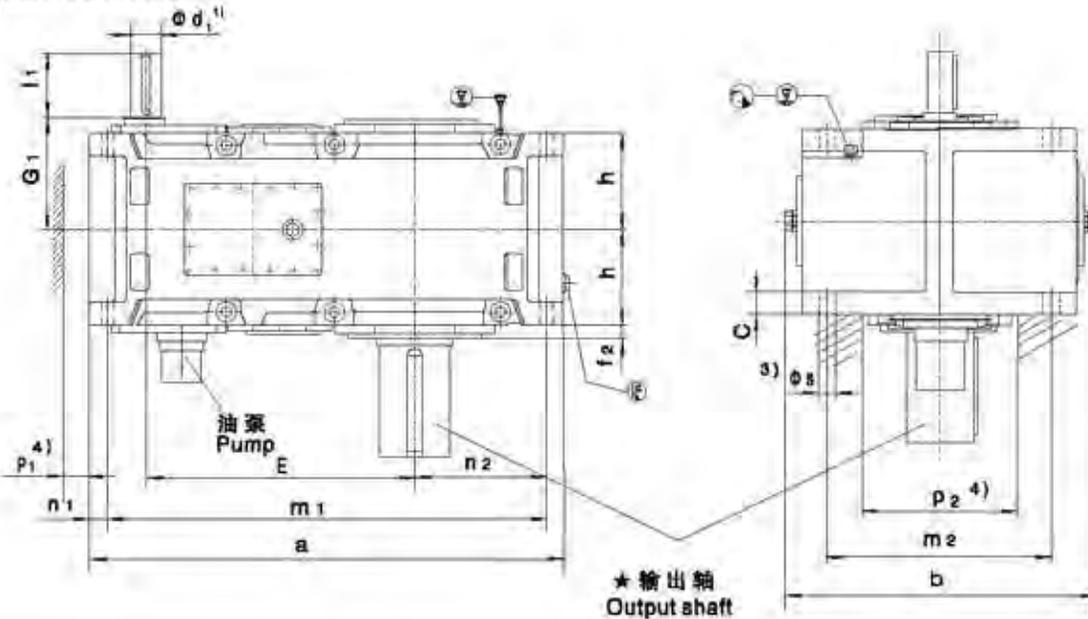
规格 Size	尺寸 mm Dimensions in mm										润滑油 Lubrication		重量 Weight (kg)
	输出轴 Output shaft										浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
	TH3SV		TH3HV		TH3DV				TH3KV				
	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄		G ₅			
5	100	165	210	95	165	100	100	165	240	见 (^{THTB} 103-106) 页 See page ^{THTB} 103-106	36	24	320
6	110	165	210	105	165	110	110	165	240		40	27	365
7	120	195	210	115	195	120	120	195	280		64	42	540
8	130	195	250	125	195	130	130	195	285		70	47	625
9	140	235	250	135	235	140	145	235	330		110	73	875
10	160	235	300	150	235	150	155	235	350		120	80	1020
11	170	270	300	165	270	165	170	270	400		190	110	1400
12	180	270	300	180	270	180	185	270	405		205	120	1675

平行轴减速器
三级传动
立式安装
类型 TH3.V
规格 13...18

Helical Gear Units
Three Stage
Vertical
Type TH3.V
Sizes 13...18

TH3SV TH3HV TH3DV TH3FV

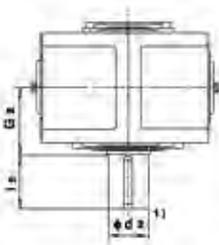
采用强制润滑
With forced lubrication



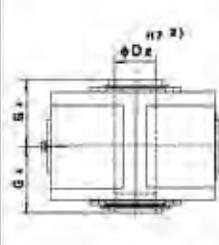
★ 输出轴

★ Output shaft

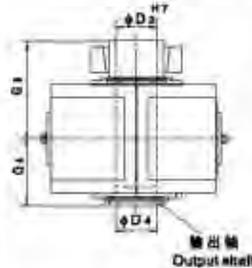
TH3SV
实心轴
Solid shaft



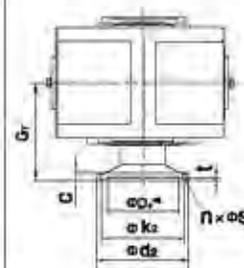
TH3HV
空心轴
Hollow shaft



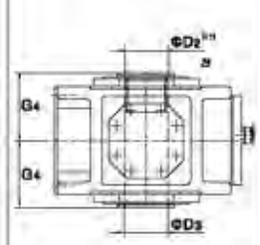
TH3DV
带胀紧套的空心轴
Hollow shaft for shrink disk



TH3FV 5)
法兰轴
Flanged shaft



TH3KV
花键空心轴
Hollow shaft



- 1) $.m_6 \leq \phi 100$ $n_6 > \phi 100$
有关平键和中心孔, 参见第 2 页
- 2) 键槽 GB/T 1095-1979
- 3) 扭力支撑位于工作机侧
- 4) 有关油泵、油管和护盖的安装空间及确切尺寸, 请与我们联系
- 5) 法兰轴安装尺寸及重量敬请垂询

- 1) $.m_6 \leq \phi 100$ $n_6 > \phi 100$
For parallel key and for centre hole, see page 2
- 2) Keyway GB/T 1095-1979
- 3) Torque support on driven machine side
- 4) Space for pump, pipes and cover; for exact dimensions, please refer to us
- 5) Dimensions and weight related to flanged shaft on request

外形安装尺寸
Mounting Dimension Sheets—overview



平行轴减速器
三级传动
立式安装
类型 TH3.V
规格 13...18

Helical Gear Units
Three Stage
Vertical
Type TH3.V
Sizes 13...18

规格 Size	尺寸 mm Dimensions in mm																		
	输入轴 Input shaft																		
	i _N =22.4-45		i _N =25-50		i _N =28-56		i _N =50-63		i _N =56-71		i _N =63-80		i _N =71-90		i _N =80-100		i _N =90-112		G ₁
d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁		
13	85	160					60	135					50	110					310
14					85	160					60	135					50	110	310
15	100	200					75	140					60	140					350
16			100	200					75	140					60	140			350
17	100	200					75	140					60	140					380
18			100	200					75	140					60	140			380
19																			
20																			
21																			
22																			

规格 Size	尺寸 mm Dimensions in mm												
	减速器 Gear units												
	a	b	c	E	f ₂	h	m ₁	m ₂	n ₁	n ₂	p ₁ ⁴⁾	p ₂ ⁴⁾	s
13	1395	900	61	820	35	275	1300	680	50	360	50	500	48
14	1535	900	61	890	35	275	1440	680	50	430	50	500	48
15	1680	980	72	987	42	312.5	1565	750	60	430	50	570	55
16	1770	980	72	1033	42	312.5	1655	750	60	475	50	570	55
17	1770	1110	81	1035	42	345	1640	850	70	465	70	630	55
18	1690	1110	81	1095	42	345	1760	850	70	525	70	630	55
19													
20													
21													
22													

规格 Size	尺寸 mm Dimensions in mm										润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴 Output shaft											
	TH3SV			TH3HV		TH3DV				TH3KV		
	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₅	D ₄	G ₄	G ₅			
13	200	335	350	190	335	190	195	335	480	见 THTB (103-106) 页 See page THTB 103-106	160	2155
14	210	335	350	210	335	210	215	335	480		180	2490
15	230	380	410	230	380	230	235	380	550		225	3260
16	240	380	410	240	380	240	245	380	550		260	3625
17	250	415	410	250	415	250	280	415	600		325	4250
18	270	415	470	275	415	280	285	415	600		335	4740
19												
20												
21												
22												

外形安装尺寸
Mounting Dimension Sheets—overview



平行轴减速器
四级传动
立式安装
类型 TH4.V
规格 7...12

Helical Gear Units
Four Stage
Vertical
Type TH4.V
Sizes 7...12

规格 Size	尺寸 mm Input shaft								G ₁
	i _N =100-180		i _N =125-224		i _N =200-355		i _N =250-450		
	d ₁ ¹⁾	l ₁							
7	30	50			24	40			180
8			30	50			24	40	180
9	35	60			28	50			215
10			35	60			28	50	215
11	45	100			32	80			250
12			45	100			32	80	250

规格 Size	尺寸 mm Gear units									
	a	b ₁	c	e ₄	e ₅	e ₆	E	E ₁	f ₁	f ₂
7	845	240	36	280	292	425	495	80	37	30
8	950	240	36	280	302	485	540	80	37	32
9	1000	330	45	320	342	560	580	90	43	32
10	1100	330	45	320	342	610	630	90	43	32
11	1200	330	54	380	402	595	705	110	47	35
12	1355	330	54	380	410	680	775	110	47	35

规格 Size	尺寸 mm Gear units									
	h	h ₁	m ₁	m ₂	n ₁	n ₂	p ₁ ⁴⁾	p ₂ ⁴⁾	s	
7	150	205	775	430	35	215	35	330	28	
8	150	205	880	430	35	275	35	330	28	
9	185	275	920	490	40	260	40	370	36	
10	190	275	1020	490	40	310	40	370	36	
11	215	275	1100	600	50	295	50	440	40	
12	215	275	1255	600	50	380	50	440	40	

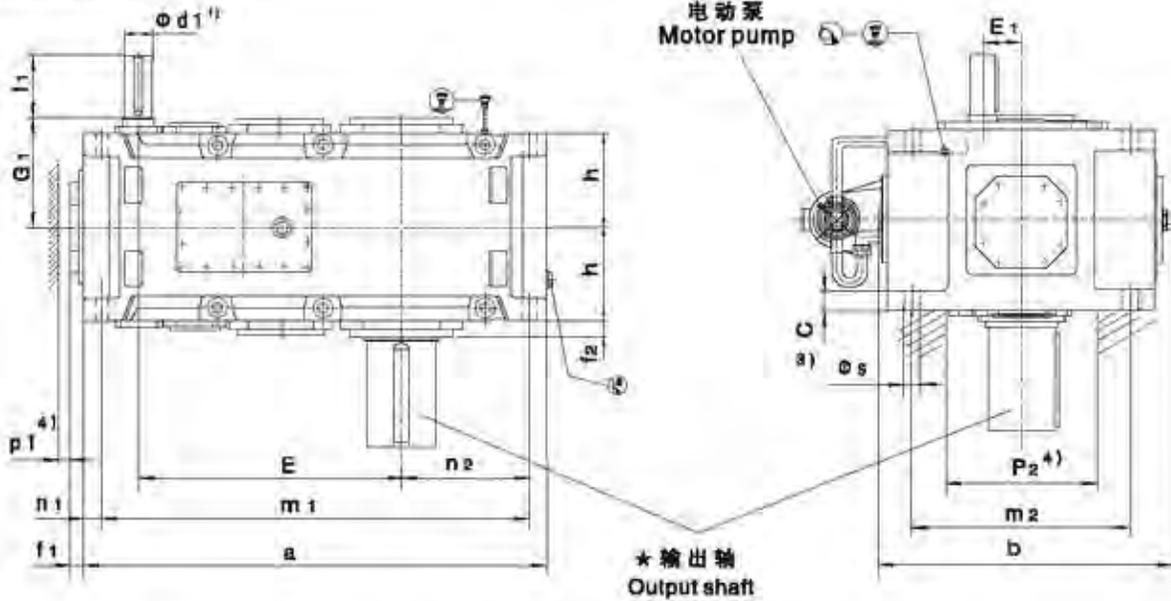
规格 Size	尺寸 mm Output shaft									TH4KV	润滑油 Lubrication		重量 Weight (kg)
	TH4SV			TH4HV		TH4DV					浸油润滑 Dip lubrication	强制润滑 Forced lubrication	
	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅		(L)	(L)	
7	120	195	210	115	195	120	120	195	280	见 THTB (103-106) 页 See page THTB 103-106	60	44	550
8	130	195	250	125	195	130	130	195	285		65	48	645
9	140	235	250	135	235	140	145	235	330		105	78	875
10	160	235	300	150	235	150	155	235	350		110	81	1010
11	170	270	300	165	270	165	170	270	400		175	113	1460
12	180	270	300	180	270	180	185	270	405		200	129	1725

平行轴减速器
 四级传动
 立式安装
 类型 TH4.V
 规格 13...18

Helical Gear Units
 Four Stage
 Vertical
 Type TH4.V
 Sizes 13...18

TH4SV TH4HV TH4DV TH4FV

采用强制润滑
 With forced lubrication



★ 输出轴

★ Output shaft

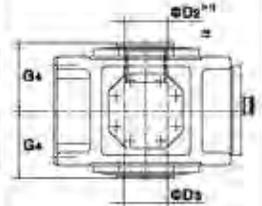
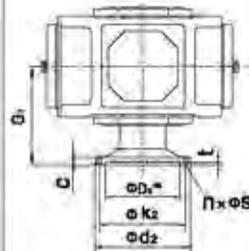
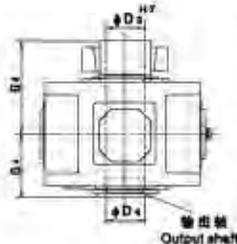
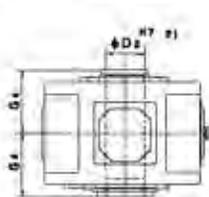
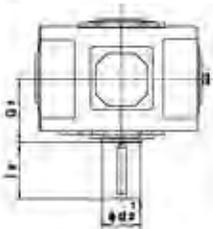
TH4SV
 实心轴
 Solid shaft

TH4HV
 空心轴
 Hollow shaft

TH4DV
 带膜紧盘的空心轴
 Hollow shaft for shrink disk

TH4FV⁵⁾
 法兰轴
 Flanged shaft

TH4KV
 花键空心轴
 Hollow shaft



1) $.m6 \leq \phi 100$ $n6 > \phi 100$
 有关平键和中心孔, 参见第 2 页

2) 键槽 GB/T 1095-1979

3) 扭力支撑位于工作机侧

4) 有关油泵、油管和护盖的安装空间及确切尺寸, 请与我们联系

5) 法兰轴安装尺寸及重量敬请垂询

1) $.m6 \leq \phi 100$ $n6 > \phi 100$

For parallel key and for centre hole, see page 2

2) Keyway GB/T 1095-1979

3) Torque support on driven machine side

4) Space for pump, pipes and cover; for exact dimensions, please refer to us

5) Dimensions and weight related to flanged shaft on request

外形安装尺寸
Mounting Dimension Sheets—overview



平行轴减速器
四级传动
立式安装
类型 TH4.V
规格 13...18

Helical Gear Units
Four Stage
Vertical
Type TH4.V
Sizes 13...18

规格 Size	尺寸 mm Dimensions in mm												G ₁
	输入轴 Input shaft												
	i _N =100-180		i _N =112-200		i _N =125-224		i _N =200-355		i _N =224-400		i _N =250-450		
	d ₁ ¹⁾	l ₁	d_{1}^{1)}	l_{1}	d_{1}^{1)}	l_{1}	d_{1}^{1)}	l_{1}	d_{1}^{1)}	l_{1}	d_{1}^{1)}	l_{1}	
13	50	100					38	80					305
14					50	100					38	80	305
15	60	135					50	110					345
16			60	135					50	110			345
17	60	105					50	80					380
18			60	105					50	80			380
19													
20													
21													
22													

规格 Size	尺寸 mm Dimensions in mm														
	减速器 Gear units														
	a	b	c	E	E ₁	f ₁	f ₂	h	m ₁	m ₂	n ₁	n ₂	p ₁ ⁴⁾	p ₂ ⁴⁾	s
13	1395	900	61	820	130	47	35	275	1300	680	50	360	50	500	48
14	1535	900	61	890	130	47	35	275	1440	680	50	430	50	500	48
15	1680	980	72	987	160	56	42	312.5	1565	750	60	430	50	570	55
16	1770	980	72	1033	160	56	42	312.5	1655	750	60	475	50	570	55
17	1770	1110	81	1035	160	53	42	345	1640	850	70	465	70	630	55
18	1890	1110	81	1095	160	53	42	345	1760	850	70	525	70	630	55
19															
20															
21															
22															

规格 Size	尺寸 mm Dimensions in mm										润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴 Output shaft											
	TH4SV			TH4HV		TH4DV				TH4KV		
d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅				
13	200	335	350	190	335	190	195	335	480	见 THTB (103-106) 页 See page THTB 103-106	140	2270
14	210	335	350	210	335	210	215	335	480		160	2600
15	230	380	410	230	380	230	235	380	550		220	3440
16	240	380	410	240	380	240	245	380	550		230	3740
17	250	415	410	250	415	250	260	415	600		280	4445
18	270	415	470	275	415	280	285	415	600		300	4915
19												
20												
21												
22												

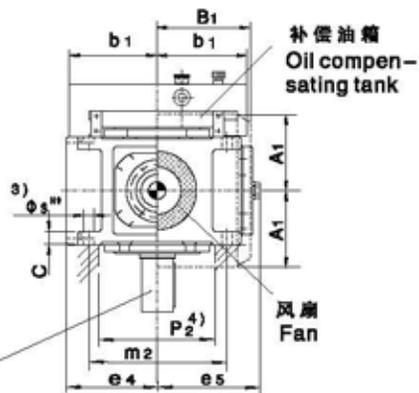
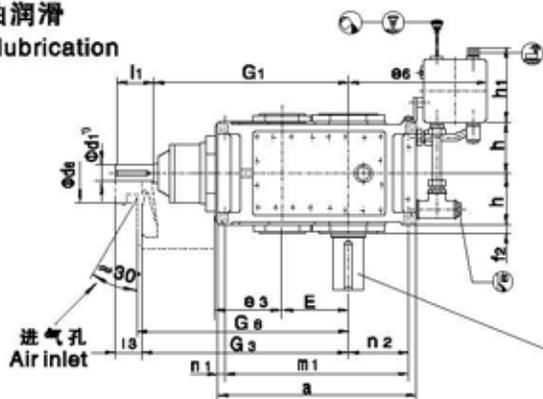
TB
TH

直 交 轴 减 速 器
 两 级 传 动
 立 式 安 装
 类 型 TB2.V
 规 格 1...12

Bevel-helical Gear Units
 Two Stage
 Vertical
 Type TB2.V
 Sizes 1...12

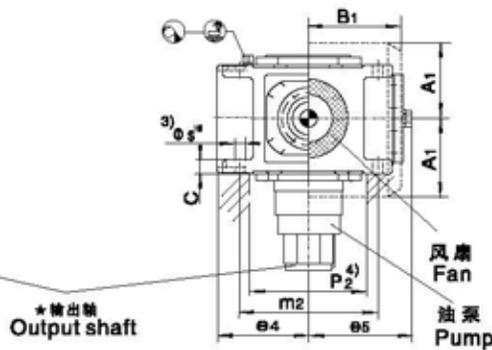
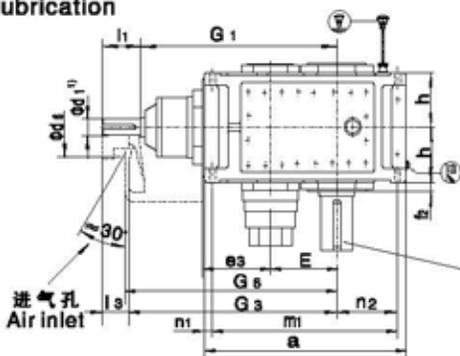
TB2SV TB2HV TB2DV TB2FV

采用浸油润滑
 With dip lubrication



TB2SV TB2HV TB2DV TB2FV

采用强制润滑
 With forced lubrication



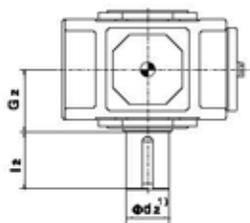
★ 输 出 轴

★ Output shaft

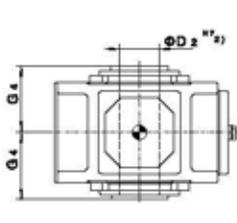
TB
 TH

89

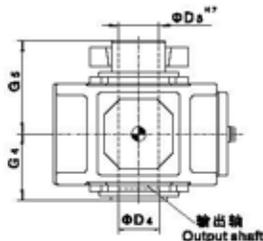
TB2SV
 实心轴
 Solid shaft



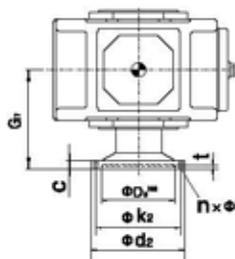
TB2HV
 空心轴
 Hollow shaft



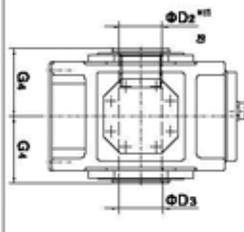
TB2DV
 带胀紧套的空心轴
 Hollow shaft for shrink disk



TB2FV 5)
 法兰轴
 Flanged shaft



TB2KV
 花键空心轴
 Hollow shaft



1) .k6 ≤ Φ25 Φ28 ≤ m6 ≤ Φ100 n6 > Φ100
 有关平键和中心孔, 参见第 2 页

2) 键槽 GB/T 1095-1979

3) 扭力支撑位于工作机侧

4) 有关油泵、油管和护盖的安装空间及确切尺寸, 请与我们联系

5) 法兰轴安装尺寸及重量敬请垂询

1) .k6 ≤ Φ25 Φ28 ≤ m6 ≤ Φ100 n6 > Φ100

For parallel key and for centre hole, see page 2

2) Keyway GB/T 1095-1979

3) Torque support on driven machine side

4) Space for pump, pipes and cover; for exact dimensions, please refer to us

5) Dimensions and weight related to flanged shaft on request

外形安装尺寸
Mounting Dimension Sheets—overview



直交轴减速器
两级传动
立式安装
类型TB2.V
规格1...12

Bevel-helical Gear Units
Two Stage
Vertical
Type TB2.V
Sizes 1...12

规格 Size	尺寸 mm Input shaft									G ₁	G ₂
	N=5-11.2			N=6.3-14			N=12.5-18				
	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂		
1	28	55	40				20	50	35	300	315
2	30	70	50				25	60	40	340	360
3	35	80	60				28	60	40	390	410
4	45	100	80							465	485
5	55	110	80							535	565
6				55	110	80				570	600
7	70	135	105							640	670
8				70	135	105				685	715
9	80	165	130							755	790
10				80	165	130				805	840
11	90	165	130							925	960
12				90	165	130				995	1030

规格 Size	尺寸 mm Gear units											
	a	A ₁	b ₁	B ₁	c	d ₆	e ₃	e ₄	e ₅	e ₆	E	f ₂
1	305	128	150	130	16	100	90	130	145	280	90	22
2	355	143	150	145	20	110	110	145	160	285	110	22
3	405	163	150	170	24	120	130	175	185	290	130	24
4	505	188	150	200	30	150	160	200	215	320	160	26
5	565	215	240	235	30	160	185	230	252	385	185	30
6	645	215	240	235	30	160	185	230	252	425	220	30
7	690	250	240	285	36	210	225	280	302	425	225	32
8	795	250	240	285	36	210	225	280	302	485	270	32
9	820	270	330	325	48	195	265	320	342	560	265	45
10	920	270	330	325	48	195	265	320	342	610	315	45
11	975	328	330	385	54	210	320	380	410	595	320	47
12	1130	328	330	385	54	210	320	380	410	680	390	47

规格 Size	尺寸 mm Gear units									
	G ₆	h	h ₁	m ₁	m ₂	n ₁	n ₂	p ₂ ⁴⁾	s	
1	325	90	165	275	210	15	115	150	12	
2	370	102.5	165	315	230	20	120	170	14	
3	420	112.5	165	365	265	20	130	200	18	
4	495	135	165	445	300	30	160	220	24	
5	575	160	205	505	360	30	175	270	24	
6	610	160	205	585	360	30	220	270	24	
7	685	190	205	620	430	35	215	330	28	
8	730	190	205	725	430	35	275	330	28	
9	805	220	275	740	490	40	260	370	36	
10	855	220	275	840	490	40	310	370	36	
11	980	265	275	875	600	50	295	440	40	
12	1050	265	275	1030	600	50	380	440	40	

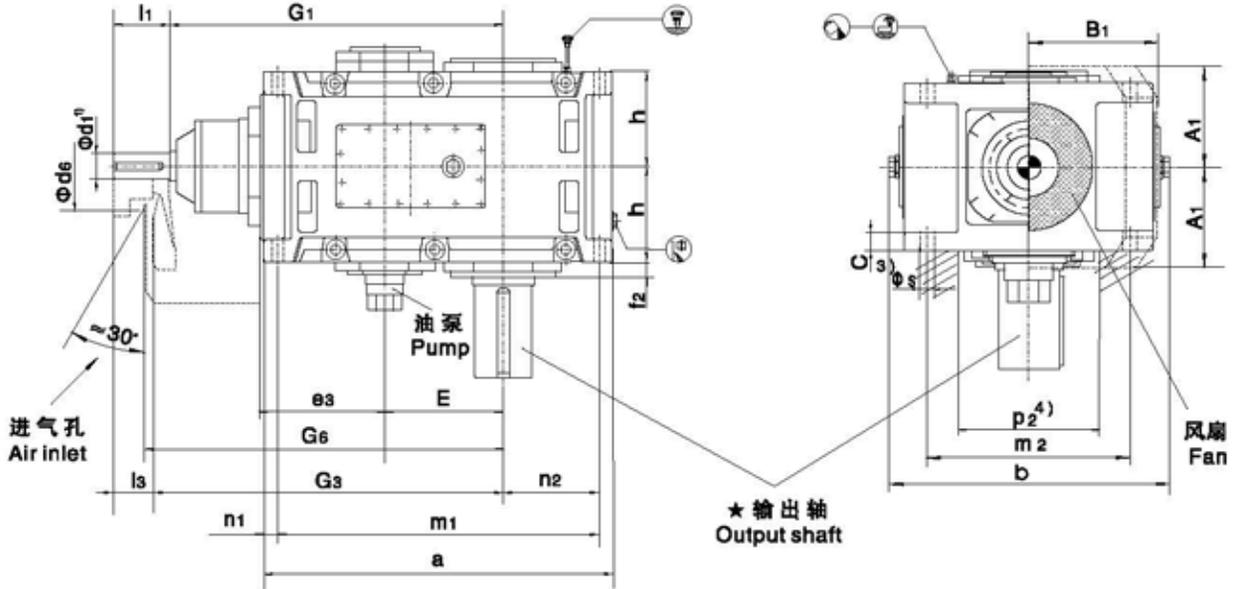
规格 Size	尺寸 mm Output shaft									TB2KV	润滑油 Lubrication		重量 Weight (kg)
	TB2SV			TB2HV		TB2DV					浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅				
1	45	120	80	-	-	-	-	-	-		7	-	65
2	55	135	110	55	135	60	60	135	180		11	-	90
3	65	145	140	65	145	70	70	145	200		16	-	140
4	80	170	170	80	170	85	85	170	235		28	-	235
5	100	200	210	95	200	100	100	200	275	见 THTB (102-106) 页 See page THTB 103-106	41	20	360
6	110	200	210	105	200	110	110	200	275		50	23	410
7	120	235	210	115	235	120	120	235	320		75	35	615
8	130	235	250	125	235	130	130	235	325		90	38	700
9	140	270	250	135	270	140	145	270	365		115	53	1000
10	160	270	300	150	270	150	155	270	385		135	60	1155
11	170	320	300	165	320	165	170	320	450		190	95	1640
12	180	320	300	180	320	180	185	320	455		225	114	1910

TB
TH

直交轴减速器
 两级传动
 立式安装
 类型 TB2.V
 规格 13...18

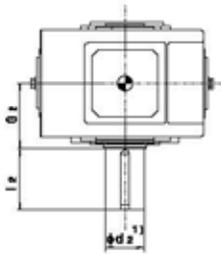
Bevel-helical Gear Units
 Two Stage
 Vertical
 Type TB2.V
 Sizes 13...18

TB2SV TB2HV TB2DV TB2FV
 采用强制润滑
 With forced lubrication

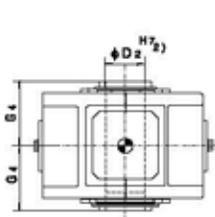


★ 输出轴 ★ Output shaft

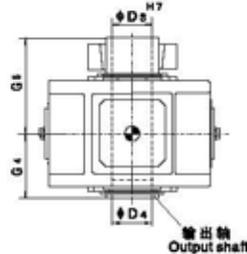
TB2SV
 实心轴
 Solid shaft



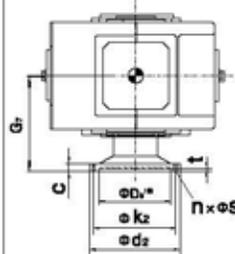
TB2HV
 空心轴
 Hollow shaft



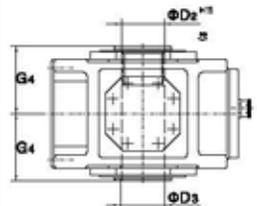
TB2DV
 带胀紧盘的空心轴
 Hollow shaft for shrink disk



TB2FV⁵⁾
 法兰轴
 Flanged shaft



TB2KV
 花键空心轴
 Hollow shaft



1) $.m6 \leq \phi 100$ $n6 > \phi 100$
 有关平键和中心孔, 参见第 2 页
 2) 键槽 GB/T1095-1979
 3) 扭力支撑位于工作机侧
 4) 有关油泵、油管和护盖的安装空间及确切尺寸,
 请与我们联系
 5) 法兰轴安装尺寸及重量敬请垂询

1) $.m6 \leq \phi 100$ $n6 > \phi 100$
 For parallel key and for centre hole, see page 2
 2) Keyway GB/T 1095-1979
 3) Torque support on driven machine side
 4) Space for pump, pipes and cover; for exact dimensions,
 please refer to us
 5) Dimensions and weight related to flanged shaft on request

外形安装尺寸
Mounting Dimension Sheets—overview



直交轴减速器
两级传动
立式安装
类型TB2.V
规格13...18

Bevel-helical Gear Units
Two Stage
Vertical
Type TB2.V
Sizes 13...18

规格 Size	尺寸 mm Dimensions in mm															G ₁	G ₂
	输入轴 Input shaft																
	i _N =5-11.2			i _N =5.6-11.2			i _N =5.6-12.5			i _N =6.3-14			i _N =7.1-12.5				
d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃			
13	110	205	165													1070	1110
14									110	205	165					1140	1180
15	130	245	200													1277	1322
16						130	245	200								1323	1368
17				150	245	200										1435	1480
18												150	245	200		1495	1540

规格 Size	尺寸 mm Dimensions in mm									
	减速器 Gear units									
a	A ₁	b	B ₁	c	d ₆	e ₂	E	f ₂		
13	1130	375	900	450	61	245	380	370	38	
14	1270	375	900	450	61	245	380	440	45	
15	1350	435	980	495	72	280	450	442	75	
16	1440	435	980	495	72	280	450	488	75	
17	1490	505	1110	555	81	380	510	490	98	
18	1610	505	1110	555	81	380	510	550	98	

规格 Size	尺寸 mm Dimensions in mm							
	减速器 Gear units							
G ₅	h	m ₁	m ₂	n ₁	n ₂	p ₂ ⁴⁾	s	
13	1130	327.5	1035	680	50	360	500	48
14	1200	327.5	1175	680	50	430	500	48
15	1340	382.5	1235	750	60	430	570	55
16	1385	382.5	1325	750	60	475	570	55
17	1500	442.5	1360	840	70	465	630	65
18	1560	442.5	1480	840	70	525	630	65

规格 Size	尺寸 mm Dimensions in mm										润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴 Output shaft											
	TB2SV			TB2HV		TB2DV				TB2KV		
d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅				
13	200	390	350	-	-	-	-	-	-	见 THTB (103-106) 页 See page THTB 103-106	125	2350
14	210	390	350	210	390	210	215	390	535		140	2725
15	230	460	410	-	-	-	-	-	-		190	3795
16	240	460	410	240	450	240	245	450	620		200	4160
17	250	540	410	-	-	-	-	-	-		270	5320
18	270	540	470	275	510	280	285	510	700		295	5860

外形安装尺寸
Mounting Dimension Sheets—overview



直交轴减速器
三级传动
立式安装
类型TB3.V
规格3...12

Bevel-helical Gear Units
Three Stage
Vertical
Type TB3.V
Sizes 3...12

规格 Size	尺寸 mm Input shaft															G ₁	G ₃		
	i _N =12.5-45					i _N =16-56			i _N =20-45			i _N =50-71			i _N =63-90				
	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃				
3							28	55	40	20	50	35				430	445		
4	30	70	50							25	60	40				500	520		
5	35	80	60							28	60	40				575	595		
6				35	80	60							28	60	40	610	630		
7	45	100	80							35	80	60				690	710		
8				45	100	80							35	80	60	735	755		
9	55	110	80							40	100	70				800	830		
10				55	110	80							40	100	70	850	880		
11	70	135	105							50	110	80				960	990		
12				70	135	105							50	110	80	1030	1060		

规格 Size	尺寸 mm Gear units												
	a	A ₁	b ₁	B ₁	c	d _a	e ₃	e ₄	e ₅	e ₆	E	f ₂	
3	450	128	150	170	24	90	90	175	185	290	220	20	
4	565	143	150	200	30	110	110	200	215	320	270	22	
5	640	168	240	235	30	130	130	230	252	385	315	28	
6	720	168	240	235	30	130	130	230	252	425	350	28	
7	785	193	240	275	36	165	160	280	292	425	385	30	
8	890	193	240	275	36	165	160	280	302	485	430	32	
9	925	231	330	325	45	175	185	320	342	560	450	32	
10	1025	231	330	325	45	175	185	320	342	605	500	32	
11	1105	263	330	385	54	190	225	380	402	605	545	35	
12	1260	263	330	385	54	190	225	380	410	680	615	35	

规格 Size	尺寸 mm Gear units										
	G ₆	h	h ₁	m ₁	m ₂	n ₁	n ₂	p ₂ ⁴⁾	s		
3	455	95	165	410	265	20	125	210	18		
4	530	107.5	165	505	300	30	160	220	24		
5	605	127.5	205	580	360	30	175	270	24		
6	640	127.5	205	660	360	30	220	270	24		
7	720	150	205	715	430	35	215	330	28		
8	765	150	205	820	430	35	275	330	28		
9	845	185	275	845	490	40	260	370	36		
10	895	190	275	945	490	40	310	370	36		
11	1010	215	275	1005	600	50	295	440	40		
12	1080	215	275	1160	600	50	380	440	40		

规格 Size	尺寸 mm Output shaft										润滑油 Lubrication		重量 Weight (kg)	
	TB3SV			TB3HV		TB3DV			TB3KV	浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)			
	d ₂ ¹⁾	G ₂	l ₂	D ₂	G ₄	D ₃	D ₄	G ₄	G ₆	见 THTB 103-106 页 See page THTB 103-106				
3	65	125	140	65	125	70	70	125	180			15	-	130
4	80	140	170	80	140	85	85	140	205			28	-	210
5	100	165	210	95	165	100	100	165	240	32	17	325		
6	110	165	210	105	165	110	110	165	240	35	18	380		
7	120	195	210	115	195	120	120	195	280	52	30	550		
8	130	195	250	125	195	130	130	195	285	67	34	635		
9	140	235	250	135	235	140	145	235	330	96	48	890		
10	160	235	300	150	235	150	155	235	350	105	52	1020		
11	170	270	300	165	270	165	170	270	400	155	75	1455		
12	180	270	300	180	270	180	185	270	405	175	85	1730		

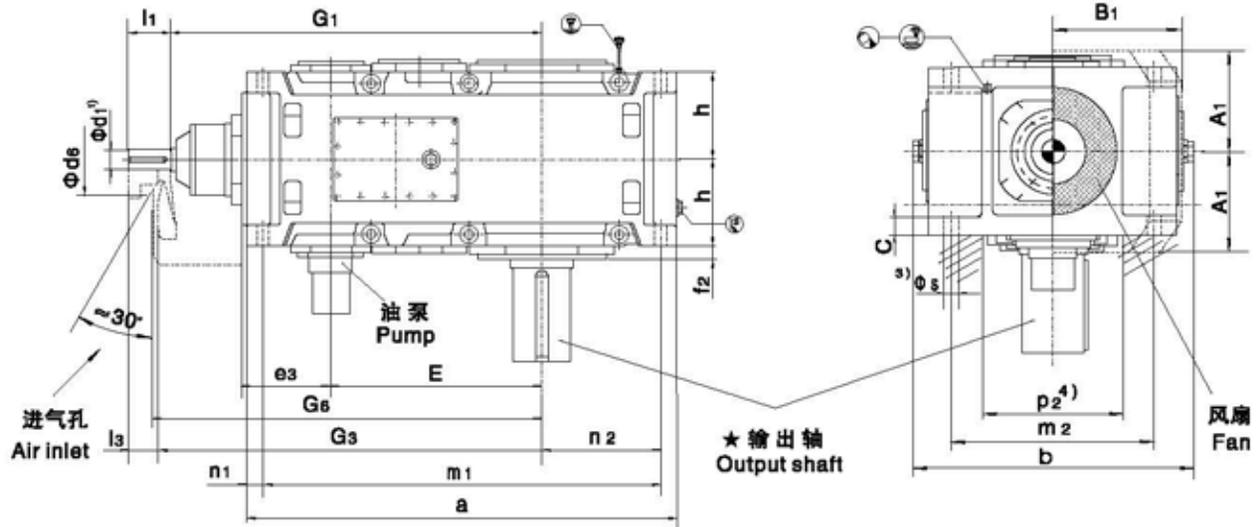
TB
TH

直交轴减速器
 三级传动
 立式安装
 类型 TB3.V
 规格 13...18

Bevel-helical Gear Units
 Three Stage
 Vertical
 Type TB3.V
 Sizes 13...18

TB3SV TB3HV TB3DV TB3FV

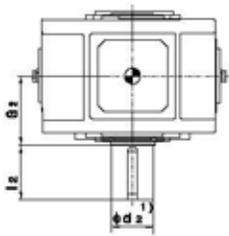
采用强制润滑
 With forced lubrication



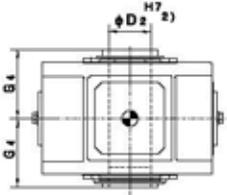
★ 输出轴

★ Output shaft

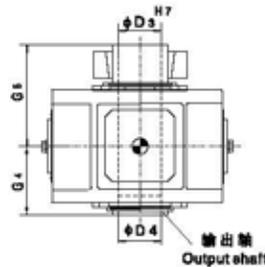
TB3SV
 实心轴
 Solid shaft



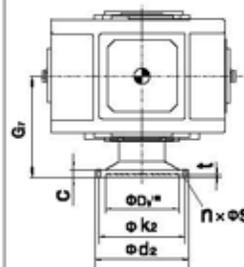
TB3HV
 空心轴
 Hollow shaft



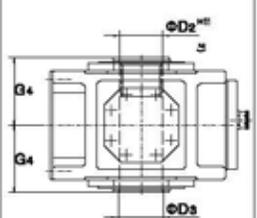
TB3DV
 带胀紧盘的空心轴
 Hollow shaft for shrink disk



TB3FH 5)
 法兰轴
 Flanged shaft



TB3KV
 花键空心轴
 Hollow shaft



- 1) $.m6 \leq \phi 100$ $n6 > \phi 100$
 有关平键和中心孔, 参见第 2 页
- 2) 键槽 GB/T 1095-1979
- 3) 扭力支撑位于工作机侧
- 4) 有关油泵、油管和护盖的安装空间及确切尺寸, 请与我们联系
- 5) 法兰轴安装尺寸及重量敬请垂询

- 1) $.m6 \leq \phi 100$ $n6 > \phi 100$
 For parallel key and for centre hole, see page 2
- 2) Keyway GB/T 1095-1979
- 3) Torque support on driven machine side
- 4) Space for pump, pipes and cover; for exact dimensions, please refer to us
- 5) Dimensions and weight related to flanged shaft on request

外形安装尺寸
Mounting Dimension Sheets—overview



直交轴减速器
三级传动
立式安装
类型TB3.V
规格13...18

Bevel-helical Gear Units
Three Stage
Vertical
Type TB3.V
Sizes 13...18

规格 Size	尺寸 mm Input shaft															G ₁	G ₃			
	i _N =12.5-45			i _N =14-50			i _N =16-56			i _N =50-71			i _N =56-80					i _N =63-90		
	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃			d ₁ ¹⁾	l ₁	l ₃
13	80	165	130							60	140	105							1125	1160
14							80	165	130							60	140	105	1195	1230
15	90	165	130							70	140	105							1367	1402
16				90	165	130							70	140	105				1413	1448
17	110	205	165							80	170	130							1560	1600
18				110	205	165							80	170	130				1620	1660
19																				
20																				
21																				
22																				

规格 Size	尺寸 mm Gear units									
	a	A ₁	b	B ₁	c	d ₆	e ₃	E	f ₂	
	13	1290	325	900	475	61	210	265	635	35
14	1430	325	900	475	61	210	265	705	35	
15	1550	365	980	520	72	210	320	762	42	
16	1640	365	980	520	72	210	320	808	42	
17	1740	395	1110	570	81	230	370	860	42	
18	1860	395	1110	570	81	230	370	920	42	
19										
20										
21										
22										

规格 Size	尺寸 mm Gear units								
	G ₆	h	m ₁	m ₂	n ₁	n ₂	p ₂ ⁴⁾	s	
	13	1180	275	1195	680	50	360	500	48
14	1250	275	1335	680	50	430	500	48	
15	1420	312.5	1435	750	60	430	570	55	
16	1470	312.5	1525	750	60	475	570	55	
17	1620	345	1610	850	70	465	630	55	
18	1680	345	1730	850	70	525	630	55	
19									
20									
21									
22									

规格 Size	尺寸 mm Output shaft										润滑油 Lubrication (L)	重量 Weight (kg)
	TB3SV			TB3HV		TB3DV				TB3KV		
	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅			
13	200	335	350	190	335	190	195	335	480		115	2260
14	210	335	350	210	335	210	215	335	480		130	2615
15	230	380	410	230	380	230	235	380	550		180	3540
16	240	380	410	240	380	240	245	380	550		190	3765
17	250	415	410	250	415	250	260	415	600		260	4760
18	270	415	470	275	415	280	285	415	600		275	5240
19												
20												
21												
22												

见
THTB
(103-105)
页
See page
THTB
103-105

外形安装尺寸
Mounting Dimension Sheets—overview



直交轴减速器
四级传动
立式安装
类型 TB4.V
规格 5...12

Bevel-helical Gear Units
Four Stage
Vertical
Type TB4.V
Sizes 5...12

规格 Size	尺寸 mm Dimensions in mm								
	输入轴 Input shaft								
	i _N =80-180		i _N =100-224		i _N =200-315		i _N =250-400		G ₁
d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁		
5	28	55			20	50			615
6			28	55			20	50	650
7	30	70			25	60			725
8			30	70			25	60	770
9	35	80			28	60			840
10			35	80			28	60	890
11	45	100			35	80			1010
12			45	100			35	80	1080

规格 Size	尺寸 mm Dimensions in mm							
	减速器 Gear units							
a	b ₁	c	B ₄	B ₅	B ₆	E	f ₂	
5	690	240	30	230	252	385	405	28
6	770	240	30	230	252	425	440	28
7	845	240	36	280	292	425	495	30
8	950	240	36	280	302	485	540	32
9	1000	330	45	320	342	560	580	32
10	1100	330	45	320	342	610	630	32
11	1200	330	54	380	402	595	705	35
12	1355	330	54	380	410	680	775	35

规格 Size	尺寸 mm Dimensions in mm							
	Gear units							
h	h ₁	m ₁	m ₂	n ₁	n ₂	p ₂	s	
5	127.5	205	630	360	30	175	270	24
6	127.5	205	710	360	30	220	270	24
7	150	205	775	430	35	215	330	28
8	150	205	880	430	35	275	330	28
9	185	275	920	490	40	260	370	36
10	190	275	1020	490	40	310	370	36
11	215	275	1100	600	50	295	440	40
12	215	275	1255	600	50	380	440	40

规格 Size	尺寸 mm Dimensions in mm										润滑油 Lubrication		重量 Weight (kg)
	输出轴 Output shaft										浸油润滑 Dip lubrication	强制润滑 Forced lubrication	
	TB4SV			TB4HV		TB4DV				TB4KV	(L)	(L)	
d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅					
5	100	165	210	95	165	100	100	165	240	见 THTB (103-106) 页 See page THTB 103-106	36	18	335
6	110	165	210	105	165	110	110	165	240		40	20	385
7	120	195	210	115	195	120	120	195	280		65	32	555
8	130	195	250	125	195	130	130	195	285		73	36	655
9	140	235	250	135	235	140	145	235	330		105	52	890
10	160	235	300	150	235	150	155	235	350		110	55	1025
11	170	270	300	165	270	165	170	270	400		175	87	1485
12	180	270	300	180	270	180	185	270	405		200	100	1750

外形安装尺寸
Mounting Dimension Sheets—overview



直交轴减速器
四级传动
立式安装
类型TB4.V
规格13...18

Bevel-helical Gear Units
Four Stage
Vertical
Type TB4.V
Sizes 13...18

规格 Size	尺寸 mm Dimensions in mm												G ₁
	输入轴 Input shaft												
	IN=80-180		IN=90-200		IN=100-224		IN=200-315		IN=224-355		IN=250-400		
d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁		
13	55	110					40	100					1170
14					55	110					40	100	1240
15	70	135					50	110					1402
16			70	135					50	110			1448
17	70	135					50	110					1450
18			70	135					50	110			1510
19													
20													
21													
22													

规格 Size	尺寸 mm Dimensions in mm											
	减速器 Gear units											
a	b	c	E	f ₂	h	m ₁	m ₂	n ₁	n ₂	p ₂	s	
13	1395	900	61	820	35	275	1300	680	50	360	500	48
14	1535	900	61	890	35	275	1440	680	50	430	500	48
15	1680	980	72	987	42	312.5	1565	750	60	430	570	55
16	1770	980	72	1033	42	312.5	1655	750	60	475	570	55
17	1770	1110	81	1035	42	345	1640	850	70	465	630	55
18	1890	1110	81	1095	42	345	1760	850	70	525	630	55
19												
20												
21												
22												

规格 Size	尺寸 mm Dimensions in mm										润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴 Output shaft											
	TB4SV		TB4HV		TB4DV			TB4KV				
d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅				
13	200	335	350	190	335	190	195	335	480	见 THTB (103-106) 页 See page THTB 103-106	135	2280
14	210	335	350	210	335	210	215	335	480		150	2605
15	230	380	410	230	380	230	235	380	550		210	3435
16	240	380	410	240	380	240	245	380	550		220	3765
17	250	415	410	250	415	250	260	415	600		270	4460
18	270	415	470	275	415	280	285	415	600		285	4930
19												
20												
21												
22												

减 速 器

带胀紧盘连接的空心轴

类型 TH2, TH3, TH4, TB3, TB4

规格 3...28

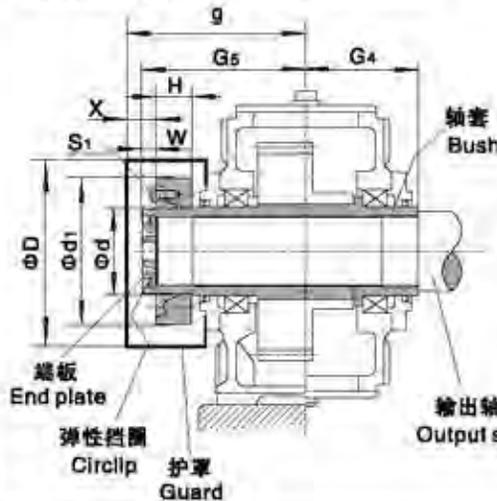
Gear Units

Hollow Shaft for Shrink Disks

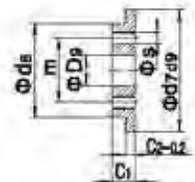
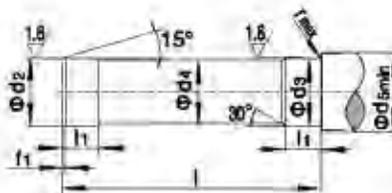
Types TH2, TH3, TH4, TB3, TB4

Sizes 3...28

X=要求预留的力矩扳手空间
X=Space required for torque wrench



用于胀紧盘连接的工作机驱动轴。
工作机驱动轴表面不得沾有机油或润滑油。
Driven machine shaft for shrink disk connection.
Driven machine shaft must be free of oil or grease.



端板
End plate

类型 TH2D、TH3D、TH4D、TB3D、TB4D

减 速 器 规格 Gear unit size	工作机驱动轴 ²⁾ Driven machine shaft										端板 End plate					弹性 挡圈 Circlip	空心轴 Hollow shaft				胀紧盘 Shrink disk		螺钉 Screw	防护罩 Guard						
	d ₂	d ₃	d ₄	d ₅	l ₁	l	l ₁	r	c ₁	c ₂	d ₇	d ₈	D ₉	m	s		数量 Qty.	D ₂	D ₃	G ₄	G ₅	d			d _t	H	W	s ₁	D	g
	mm																mm													
3	70g6	70g6	89.5	80	4	288	38	2	17	7	75	55	22	40	M8	2	75x2.5	70	70	125	180	80	155	38	20	M8	-	-		
4	85g6	85h6	84.5	86	4	326	48	2	17	7	90	70	22	50	M8	2	90x2.5	85	85	140	206	110	185	48	20	M10	235	225		
6	100g6	100h6	98.5	114	6	383	53	2	20	8	105	80	28	55	M10	2	105x3	100	100	165	240	125	215	53	20	M10	275	260		
6	110g6	110h6	109.5	124	5	383	58	3	20	8	115	85	26	60	M10	2	115x3	110	110	165	240	140	230	58	20	M12	285	255		
7	120g6	120h6	119.5	134	5	458	88	3	20	8	125	90	26	65	M12	2	125x3	120	120	195	280	155	263	82	23	M12	330	305		
8	130g6	130h6	129.5	145	6	458	73	3	20	8	135	100	26	70	M12	2	135x3	130	130	195	285	165	280	68	23	M16	340	305		
9	140g6	145h6	138.5	180	6	538	82	4	23	10	150	110	33	80	M12	2	150x3	140	145	235	330	175	300	88	28	M16	360	355		
10	150g6	155h6	148.5	170	6	558	92	4	23	10	160	120	33	90	M12	2	160x3	150	155	235	350	200	350	85	28	M16	395	365		
11	165f6	170h6	164.5	185	7	644	112	4	23	10	175	130	33	90	M12	2	175x3	165	170	270	400	220	370	103	30	M16	435	420		
12	180f6	185h6	179.5	200	7	648	122	4	23	10	190	140	33	100	M16	2	190x3	180	185	270	405	240	405	107	30	M20	450	420		
13	190f6	195h6	189.5	213	7	788	137	5	23	10	200	150	33	110	M16	2	200x3	190	195	335	480	260	430	119	30	M20	500	505		
14	210f6	215h6	209.5	233	8	784	147	5	28	14	220	170	33	130	M16	2	220x5	210	215	335	480	290	460	132	30	M20	525	505		
15	230f6	235h6	229.5	253	8	890	157	5	28	14	240	160	38	140	M16	2	240x5	230	235	380	550	300	485	140	35	M20	575	575		
16	240f6	245h6	239.5	293	8	899	157	5	28	14	250	190	38	150	M20	2	250x5	240	245	380	550	320	520	140	35	M20	585	575		
17	250f6	260h6	248.5	278	8	982	177	5	30	14	265	200	38	150	M20	2	265x5	250	260	415	600	340	570	155	35	M20	615	630		
18	280f6	285h6	279.5	306	9	982	177	5	30	14	290	210	38	160	M20	2	290x5	280	285	415	600	360	580	158	35	M20	635	625		
19	285f6	295h6	284.5	318	9	1100	187	5	32	15	300	220	38	170	M24	2	300x5	285	295	485	670	380	650	163	40	M24	-	-		
20	310f6	315h6	309.5	336	9	1100	187	5	32	15	320	230	38	180	M24	2	320x6	310	315	485	670	390	650	163	40	M24	-	-		
21	330f6	335h6	329	358	9	1160	205	5	40	20	340	250	45	190	M24	2	340x6	330	335	490	715	420	670	184	45	M24	-	-		
22	340f6	345h6	339	368	9	1170	215	5	40	20	350	260	45	200	M24	2	350x6	340	345	490	725	440	740	192	45	M24	-	-		

- 23-28 敬请垂询 / On request
- 1) 胀紧盘不在我们的供货范围之内。
如果需要的话,请另行订货。
1) Shrink disk does not belong to our scope of supply.
Please order separately, if required.
 - 2) 工作机驱动轴材质: 60钢或强度更高的钢。
根据用户要求, 胀紧盘可布置在工作机侧。
2) Material of driven machine shaft: C60N or higher strength.
Shrink disk on machine side on request.

外形安装尺寸
Mounting Dimension Sheets—overview



减 速 器

带胀紧盘连接的空心轴

类型 TB2

规格 2...18

Gear Units

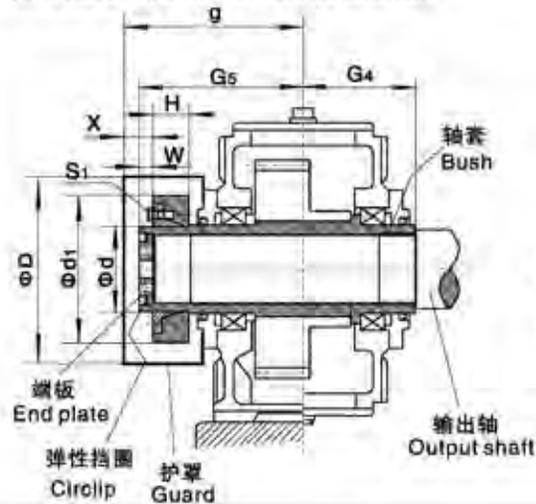
Hollow Shaft for Shrink Disks

Type TB2

Sizes 2...18

X=要求预留的力矩扳手空间

X=Space required for torque wrench

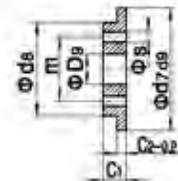
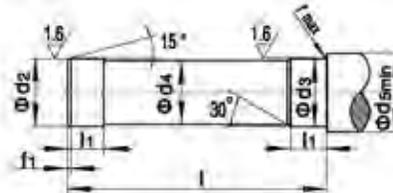


用于胀紧盘联接的工作机驱动轴。

工作机驱动轴表面不得沾有机油或润滑脂。

Driven machine shaft for shrink disk connection.

Driven machine shaft must be free of oil or grease.



端板
End plate

类型TB2D

减速器 规格 Gear unit size	工作机驱动轴 ²⁾ Driven machine shaft																端板 End plate						弹性 挡圈 Circlip	空心轴 Hollow shaft				胀紧盘 Shrink disk		螺钉 Screw	防护罩 Guard	
	d ₂	d ₃	d ₄	d ₅	f ₁	l	l ₁	r	c ₁	c ₂	d ₇	d ₈	D ₉	m	s	数量 Qty.	D ₂	D ₃	G ₄	G ₅	d	d ₁		H	W	s ₁	D	g				
	mm																mm				mm			mm								
2	60g6	60g6	59.5	70	3	300	36	2	13	6	65	47	22	35	M6	2	65x2.5	60	60	135	180	80	141	31	16	M8						
3	70g6	70h6	69.5	80	4	326	38	2	17	7	75	55	22	40	M8	2	75x2.5	70	70	145	200	90	155	38	20	M8						
4	85g6	85h6	84.5	95	4	366	48	2	17	7	90	70	22	50	M8	2	90x2.5	85	85	170	235	110	185	49	20	M10	235	255				
5	100g6	100h6	99.5	114	5	453	53	2	20	8	105	80	26	55	M10	2	105x3	100	100	200	275	125	215	53	20	M12	275	290				
6	110g6	110h6	109.5	124	5	453	58	3	20	8	115	85	26	60	M10	2	115x3	110	110	200	275	140	230	58	20	M12	285	285				
7	120g6	120h6	119.5	134	5	533	68	3	20	8	125	90	26	65	M12	2	125x3	120	120	235	320	155	263	62	23	M12	330	345				
8	130g6	130h6	129.5	145	6	538	73	3	20	8	135	100	26	70	M12	2	135x3	130	130	235	325	185	290	68	23	M16	340	345				
9	140g6	145m6	139.5	160	6	609	82	4	23	10	150	110	33	80	M12	2	150x3	140	145	270	385	175	300	88	28	M16	360	390				
10	150g6	155m6	149.5	170	6	629	92	4	23	10	160	120	33	90	M12	2	160x3	150	155	270	385	200	350	85	28	M16	395	400				
11	185f6	170m6	164.5	186	7	744	112	4	23	10	175	130	33	90	M12	2	175x3	165	170	320	450	220	370	103	30	M16	435	470				
12	186f6	185m6	179.5	200	7	749	122	4	23	10	190	140	33	100	M16	2	190x3	180	185	320	455	240	405	107	30	M20	450	470				
14	210f6	215m6	209.5	233	8	894	147	5	26	14	220	170	33	130	M16	2	220x5	210	215	390	535	280	460	132	30	M20	525	555				
16	240f6	245m6	239.5	263	8	1039	157	5	26	14	250	190	39	150	M20	2	250x5	240	245	450	620	320	520	140	35	M20	595	645				
18	280f6	285m6	279.5	306	9	1177	177	5	30	14	290	210	39	180	M20	2	290x5	280	285	510	700	360	590	159	35	M24	635	725				

1) 胀紧盘不在我们的供货范围之内。

如果需要的话,请另行订货。

2) 工作机驱动轴材质:60钢或强度更高的钢。

根据用户要求,胀紧盘可布置在工作机侧。

1) Shrink disk does not belong to our scope of supply.

Please order separately,if required.

2) Material of driven machine shaft:C60N or higher strength.

Shrink disk on machine side on request.

减 速 器

带花键 (DIN5480) 连接的空心轴

类型 TH2, TH3, TH4, TB3, TB4

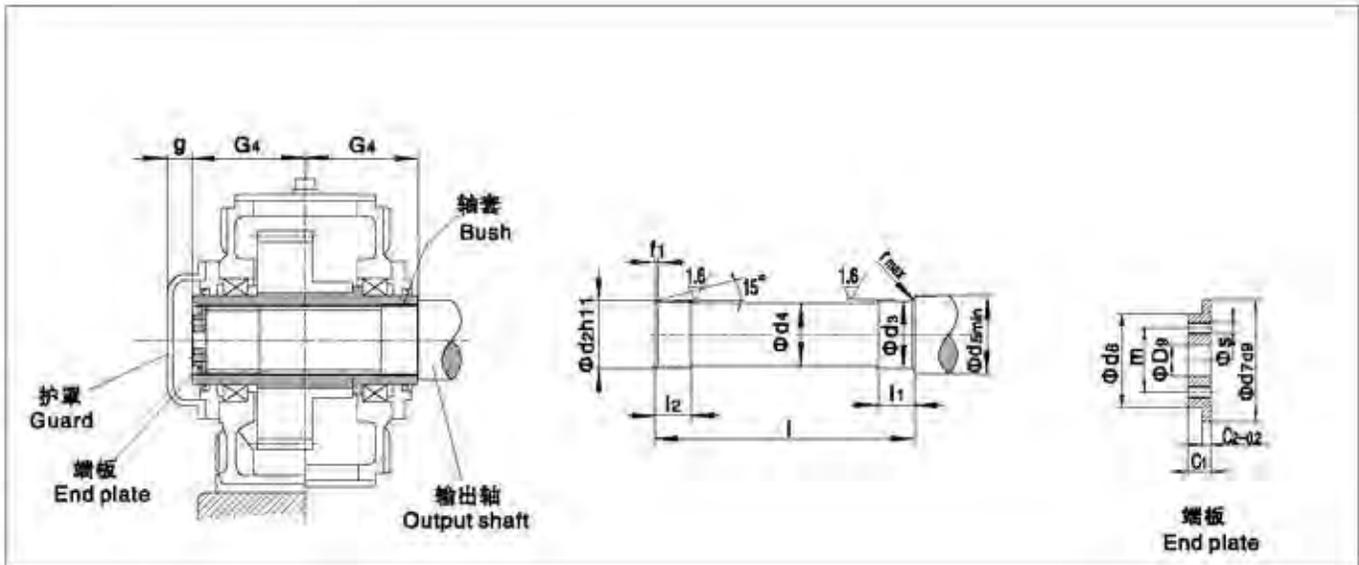
规格 5...28

Gear Units

Hollow Shaft for Spline(DIN5480)

Types TH2, TH3, TH4, TB3, TB4

Sizes 5...28



类型type TH2K., TH3K., TH4K., TB3K., TB4K.

规格 size	渐开线花键 Involute splines DIN5480	工作机驱动轴 driven machine shaft										端板 end plate						弹性 挡圈 circlip	空心轴 hollow shaft				螺栓 bolt	
		d2	d3	d4	d5	f1	l	l1	l2	r	c1	c2	d7	d8	d9	m	s		数量 Qty	D2	D3	G4		g
5	W95*3*30*30*8f	94.4	100h8	93	114	3	308	53	90	2	20	8	105	80	28	55	M10	2	105*4	89	100	185	40	M24
6	W95*3*30*30*8f	94.4	100h8	93	124	3	308	58	90	3	20	8	105	80	28	55	M10	2	105*4	89	110	185	40	M24
7	W120*3*30*38*8f	119.4	120h8	118	134	3	368	88	105	3	20	8	125	90	28	85	M12	2	105*4	114	120	195	40	M24
8	W120*3*30*38*8f	119.4	130h6	118	145	3	368	73	105	3	20	8	125	90	26	85	M12	2	105*4	114	130	195	40	M24
9	W140*3*30*45*8f	139.4	145m6	138	160	3	444	82	125	4	23	10	150	110	33	80	M12	2	105*4	134	145	235	45	M30
10	W140*3*30*45*8f	139.4	155m6	138	170	3	444	92	125	4	23	10	160	110	33	80	M12	2	105*4	134	155	235	45	M30
11	W170*5*30*32*8f	169	170m6	168	185	5	514	112	150	4	23	10	175	130	33	90	M12	2	105*4	160	170	270	45	M30
12	W170*5*30*32*8f	169	185m6	168	200	5	514	122	150	4	23	10	175	130	33	90	M12	2	105*4	160	185	270	45	M30
13	W190*5*30*36*8f	189	195m6	188	213	5	644	137	180	5	23	10	200	150	33	110	M16	2	105*4	180	195	335	45	M30
14	W190*5*30*36*8f	189	215m6	188	233	5	644	147	180	5	23	10	200	150	33	110	M16	2	105*4	180	215	335	45	M30
15	W220*5*30*42*8f	219	235m6	218	253	5	728	157	200	5	28	14	240	180	39	140	M16	2	105*4	210	235	380	60	M36
16	W220*5*30*42*8f	219	245m6	218	263	5	728	157	200	5	28	14	240	180	39	140	M16	2	105*4	210	245	380	60	M36
17	W250*5*30*46*8f	249	260m6	248	278	5	796	177	215	5	30	14	265	200	39	150	M20	2	105*4	240	260	415	60	M38
18	W250*5*30*46*8f	249	285m6	248	308	5	796	177	215	5	30	14	265	200	39	150	M20	2	105*4	240	285	415	60	M38
19-28	敬请垂询/ On request																							

TB
TH

103

1)工作机驱动轴材质为42CrMo 或强度更高的钢材。

1)Material of driven machine shaft: 42CrMo or higher strength.

外形安装尺寸
Mounting Dimension Sheets—overview



减 速 器

带花键 (DIN5480) 连接的空心轴

类型 TB2

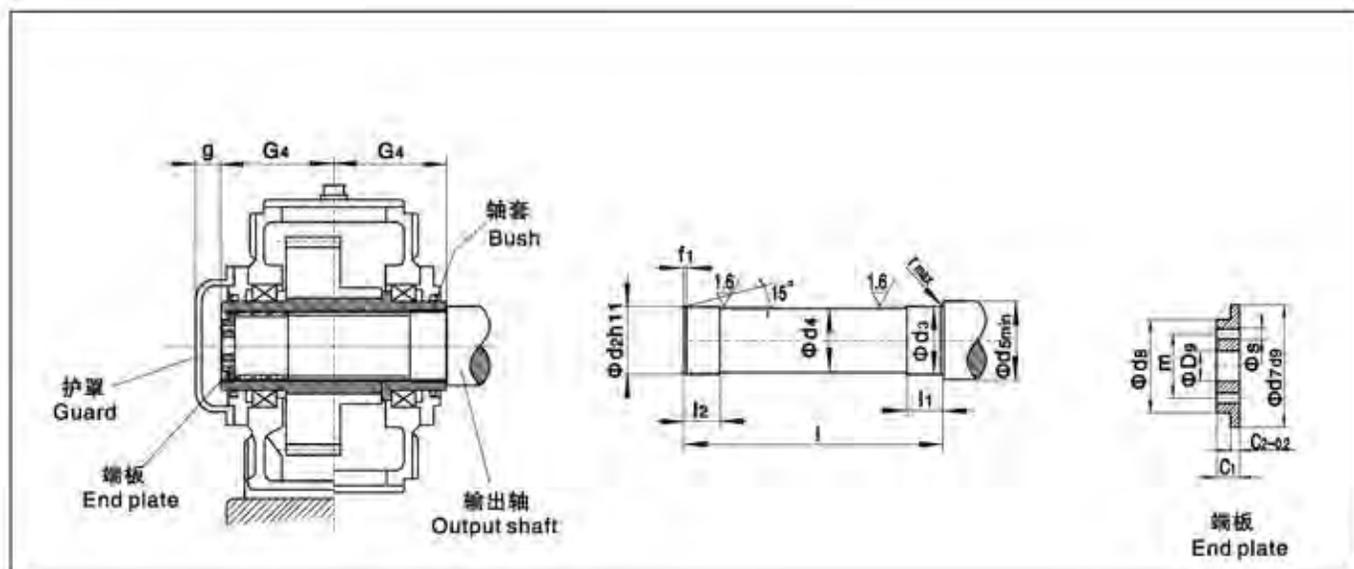
规格 5...18

Gear Units

Hollow Shaft for Spline(DIN5480)

Type TB2

Sizes 5...18



类型type TB2K.

规格 size	渐开线花键 Involute splines DIN5480	工作机驱动轴 driven machine shaft										端板 end plate							弹性 挡圈 circlip	空心轴 hollow shaft				螺栓 bolt
		d2	d3	d4	d5	f1	l	l1	l2	r	c1	c2	d7	d8	D9	m	s	数量 Qty		D2	D3	G2	g	
5	W95*3*30*30*8f	94.4	100h6	93	114	3	378	53	90	2	20	8	105d9	80	28	55	M10	2	105*4	89	100	200	40	M24
6	W95*3*30*30*8f	94.4	100h6	93	124	3	378	58	90	3	20	8	105d9	80	28	55	M10	2	105*4	89	110	200	40	M24
7	W120*3*30*38*8f	119.4	120h6	118	134	3	448	68	105	3	20	8	125d9	90	28	65	M12	2	125*4	114	120	235	40	M24
8	W120*3*30*38*8f	119.4	130h6	118	145	3	448	73	105	3	20	8	125d9	90	28	65	M12	2	125*4	114	130	235	40	M24
9	W140*3*30*45*8f	139.4	145m6	138	160	3	514	82	125	4	23	10	150d9	110	33	80	M12	2	150*4	134	145	270	45	M30
10	W140*3*30*45*8f	139.4	155m6	138	170	3	514	92	125	4	23	10	160d9	110	33	80	M12	2	150*4	134	155	270	45	M30
11	W170*5*30*32*8f	169	170m6	168	185	5	614	112	150	4	23	10	175d9	130	33	90	M12	2	175*4	160	170	320	45	M30
12	W170*5*30*32*8f	169	185m6	168	200	5	614	122	150	4	23	10	175d9	130	33	90	M12	2	175*4	160	185	320	45	M30
14	W190*5*30*36*8f	189	215m6	188	233	5	745	147	180	5	23	10	200	150	33	110	M16	2	200*4	180	215	390	45	M30
16	W220*5*30*42*8f	219	245m6	218	263	5	868	157	200	5	28	14	240	180	39	140	M16	2	240*4	210	245	450	60	M36
18	W250*5*30*48*8f	249	265m6	248	308	5	986	177	215	5	30	14	265	200	39	150	M20	2	265*4	240	265	510	80	M36

1)工作机驱动轴材质为42CrMo 或强度更高的钢材。

1)Material of driven machine shaft: 42CrMo or higher strength.

减 速 器

带花键 (GB/T3478.1) 空心轴

类型 TH2, TH3, TH4, TB3, TB4

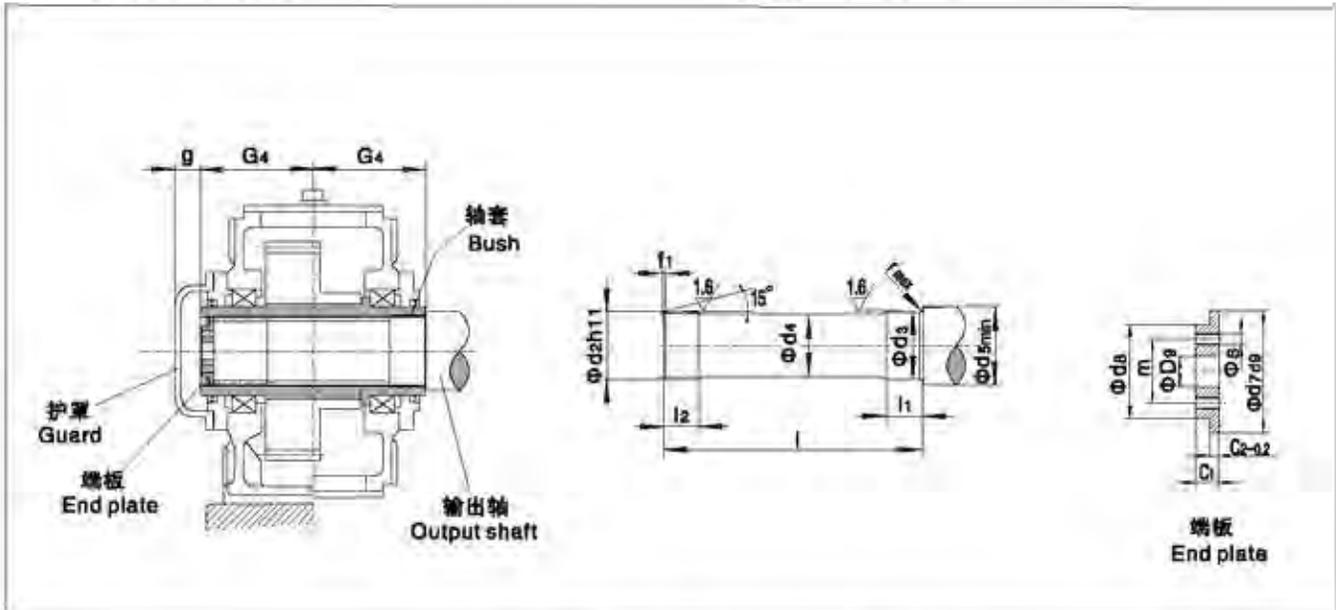
规格 5...18

Gear Units

Hollow Shaft for Spline (GB/T3478.1)

Types TH2, TH3, TH4, TB3, TB4

Sizes 5...18



类型 TH2K TH3K TH4K TB3K TB4K

减速器规格 Gear unit size	工作机驱动轴 2) Driven machine shaft																	弹性挡圈 Circlip	空心轴 Hollow shaft				螺钉 Screw		
	GB/T3478.1 -1995	d ₂	d ₃	d ₄	d ₅	f ₁	l	l ₁	l ₂	r	c ₁	c ₂	d ₇	d ₈	D ₃	m	s		数量 Qty.	D ₂	D ₃	G ₄		g	s ₁
	mm																		mm						
5	30z*3m*30p*8h	93	100h6	90	114	3	308	53	90	2	20	8	105	80	28	55	M10	2	105*3	87	100	185	40	M24	
6	30z*3m*30p*8h	93	110h6	90	124	3	308	58	90	3	20	8	115	85	28	60	M10	2	115*3	87	110	185	40	M24	
7	38z*3m*30p*8h	117	120h6	114	134	3	388	68	105	3	20	8	125	90	28	65	M12	2	125*3	111	120	195	40	M24	
8	38z*3m*30p*8h	117	130h6	114	145	3	388	73	105	3	20	8	135	100	28	70	M12	2	135*3	111	130	195	40	M24	
9	45z*3m*30p*8h	135	145h6	135	160	3	444	82	125	4	23	10	150	110	33	80	M12	2	150*3	132	145	235	45	M30	
10	45z*3m*30p*8h	135	155h6	135	170	3	444	92	125	4	23	10	160	120	33	90	M12	2	160*3	132	155	235	45	M30	
11	32z*5m*30p*8h	165	170h6	160	185	5	514	112	150	4	23	10	175	130	33	90	M12	2	175*3	165	170	270	45	M30	
12	32z*5m*30p*8h	165	185h6	160	200	5	514	122	150	4	23	10	190	140	33	100	M16	2	190*3	155	185	270	45	M30	
13	38z*5m*30p*8h	185	195h6	180	213	5	644	137	180	5	23	10	200	150	33	110	M18	2	200*3	175	195	335	45	M30	
14	38z*5m*30p*8h	185	215h6	180	233	5	644	147	180	5	28	14	220	170	33	130	M16	2	220*3	175	215	335	45	M30	
15	42z*5m*30p*8h	215	235h6	210	253	5	728	157	200	5	28	14	240	180	39	140	M16	2	240*3	205	235	380	80	M36	
16	42z*5m*30p*8h	215	245h6	210	283	5	728	167	200	5	28	14	250	190	39	150	M20	2	250*3	205	245	380	80	M36	
17	48z*5m*30p*8h	245	280h6	240	278	5	796	177	215	5	30	14	285	200	39	150	M20	2	285*3	235	280	415	80	M36	
18	48z*5m*30p*8h	245	285h6	240	308	5	796	177	215	5	30	14	290	210	39	160	M20	2	290*3	235	285	415	80	M36	

1)工作机驱动轴材质为42CrMo 或强度更高的钢材。

1)Material of driven machine shaft: 42CrMo or higher strength.

外形安装尺寸 Mounting Dimension Sheets—overview



减 速 器

带花键 (GB/T3478.1) 空心轴

类型 TB2

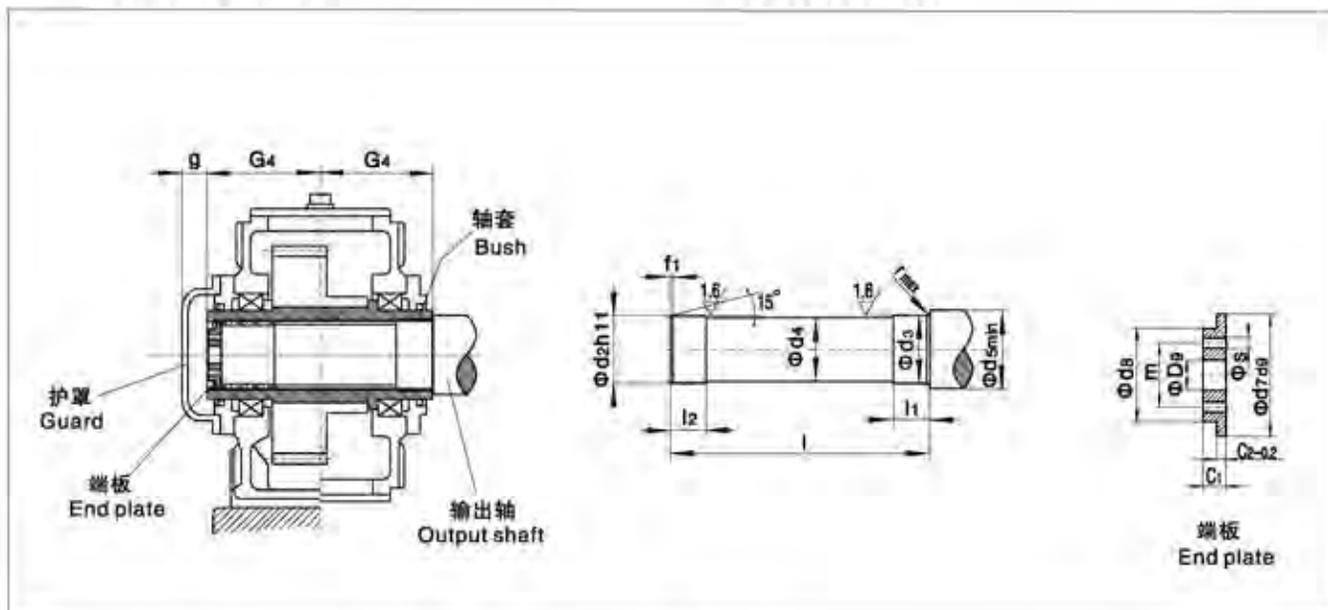
规格 5...18

Gear Units

Hollow Shaft for Spline (GB/T3478.1)

Type TB2

Sizes 5...18



类型 TB2K

减速器规格 Gear unit size	工作机驱动轴 ²⁾ Driven machine shaft																	弹性挡圈 Circlip	空心轴 Hollow shaft				螺钉 Screw	
	端板 End plate																		D ₂	D ₃	G ₄	G		S ₁
	GB/T3478.1-1995	d ₂	d ₃	d ₄	d ₅	f ₁	l	l ₁	l ₂	r	C ₁	C ₂	d ₇	d ₈	D ₉	m	s								数量 Qty.
mm																	mm							
5	30z*3m*30p*6h	93	100h6	90	114	3	378	53	90	2	20	8	105	80	26	55	M10	2	105*3	87	100	200	40	M24
6	30z*3m*30p*6h	93	110h6	90	124	3	378	58	90	3	20	8	115	85	26	60	M10	2	115*3	87	110	200	40	M24
7	38z*3m*30p*6h	117	120h6	114	134	3	448	68	105	3	20	8	125	90	26	65	M12	2	125*3	111	120	235	40	M24
8	38z*3m*30p*6h	117	130h6	114	145	3	448	73	105	3	20	8	135	100	26	70	M12	2	135*3	111	130	235	40	M24
9	45z*3m*30p*6h	135	145m6	135	160	3	514	82	125	4	23	10	150	110	33	80	M12	2	150*3	132	145	270	45	M30
10	45z*3m*30p*6h	135	155m6	135	170	3	514	92	125	4	23	10	160	120	33	90	M12	2	160*3	132	155	270	45	M30
11	32z*5m*30p*6h	165	170m6	160	185	3	614	112	150	4	23	10	175	130	33	90	M12	2	175*3	155	170	320	45	M30
12	32z*5m*30p*6h	185	185m6	160	200	3	614	122	150	4	23	10	190	140	33	100	M16	2	190*3	155	185	320	45	M30
14	36z*5m*30p*6h	185	215m6	180	233	3	754	147	180	5	28	14	220	170	33	130	M16	2	220*3	175	215	390	45	M30
16	42z*5m*30p*6h	215	245m6	210	263	3	868	157	200	5	28	14	250	190	39	150	M20	2	250*3	205	245	450	60	M30
18	48z*5m*30p*6h	245	285m6	240	306	3	986	177	215	5	30	14	290	210	39	160	M20	2	290*3	235	285	510	60	M30

1)工作机驱动材质为42CrMo 或强度更高的钢材。

1) Material of driven machine shaft: 42CrMo or higher strength.

减 速 器

Gear Units

带平键连接的空心轴

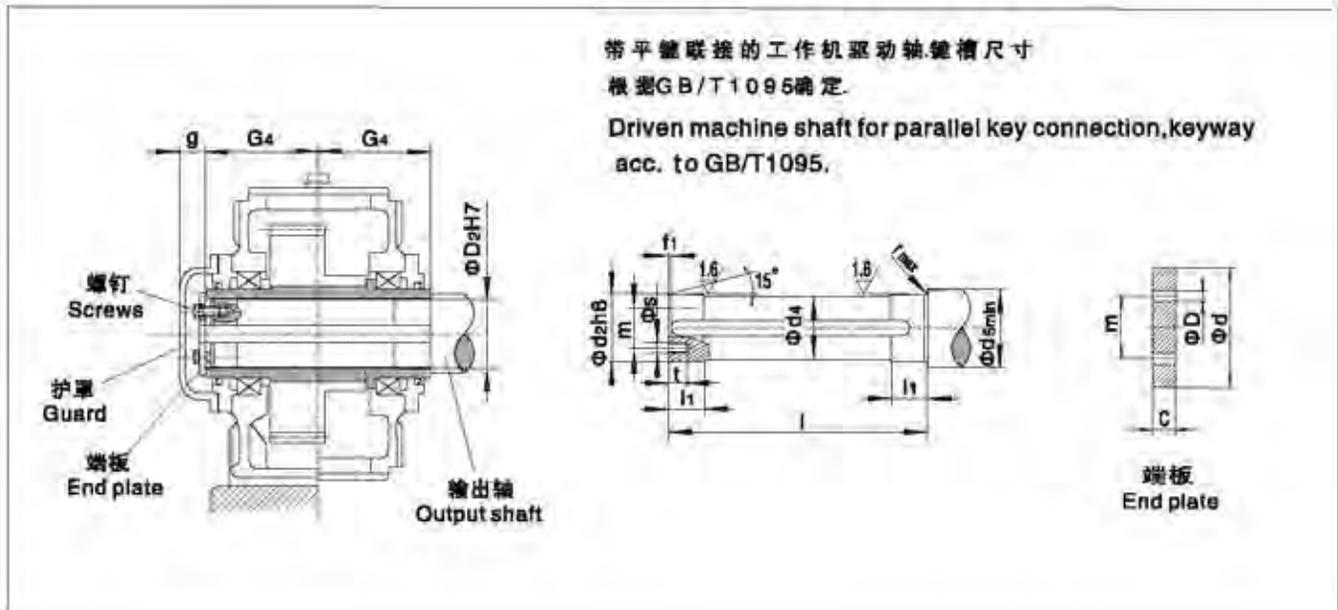
Hollow Shaft for Parallel Key Connections

类型 TH2, TH3, TH4, TB3, TB4

Types TH2, TH3, TH4, TB3, TB4

规格 3...18

Sizes 3...18



类型 TH2H、TH3H、TH4H、TB3H、TB4H

Types TH2, TH3, TH4, TB3, TB4

减 速 器 规格 Gear unit size	工作机驱动轴 ¹⁾ Driven machine shaft										端板 End plate			螺钉 Screw		空心轴 Hollow shaft		
	d ₂	d ₄	d ₅	f ₁	l	l ₁	r	s	t	c	D	d	m	规格 Type	数量 Qty.	Ø ₂	G ₄	g
	mm															mm		
3	85	84.5	73	4	248	30	1.2	M10	18	8	11	78	45	M10×25	2	85	125	35
4	80	79.5	88	4	278	35	1.2	M10	18	10	11	100	60	M10×25	2	80	140	35
5	95	94.5	105	5	328	40	1.6	M10	18	10	11	120	70	M10×25	2	95	165	40
6	105	104.5	116	5	328	45	1.6	M10	18	10	11	120	70	M10×25	2	105	165	40
7	115	114.5	126	5	388	50	1.6	M12	20	12	13.5	140	80	M12×30	2	115	195	40
8	125	124.5	138	6	388	55	2.5	M12	20	12	13.5	150	85	M12×30	2	125	196	40
9	135	134.5	147	6	467	60	2.5	M12	20	12	13.5	150	90	M12×30	2	135	235	45
10	150	149.5	162	6	467	65	2.5	M12	20	12	13.5	165	110	M12×30	2	150	235	45
11	185	184.5	177	7	537	70	2.5	M16	28	15	17.5	195	120	M16×40	2	165	270	45
12	180	179.5	192	7	537	75	2.5	M16	28	15	17.5	220	130	M16×40	2	180	270	45
13	190	189.5	206	7	567	80	3	M16	28	18	17.5	230	140	M16×40	2	190	335	45
14	210	209.5	226	8	667	85	3	M16	28	18	17.5	250	160	M16×40	2	210	335	45
15	230	229.5	248	8	756	100	3	M20	38	25	22	270	180	M20×55	4	230	380	60
16	240	239.5	258	8	756	100	3	M20	38	25	22	280	180	M20×55	4	240	380	60
17	250	249.5	270	8	826	110	4	M20	38	25	22	300	190	M20×55	4	250	415	60
18	275	274.5	295	9	826	120	4	M20	38	25	22	330	210	M20×55	4	275	415	60

1) 工作机驱动轴材质: 80钢或强度更高的钢。

1) Material of driven machine shaft: C60N or higher strength.

平键不在我们的供货范围之内。

Parallel key does not belong to our scope of supply.

如果需要的话, 请另行订货。

Please order separately, if required.

外形安装尺寸
Mounting Dimension Sheets—overview



减 速 器

带平键连接的空心轴

类型 TB2

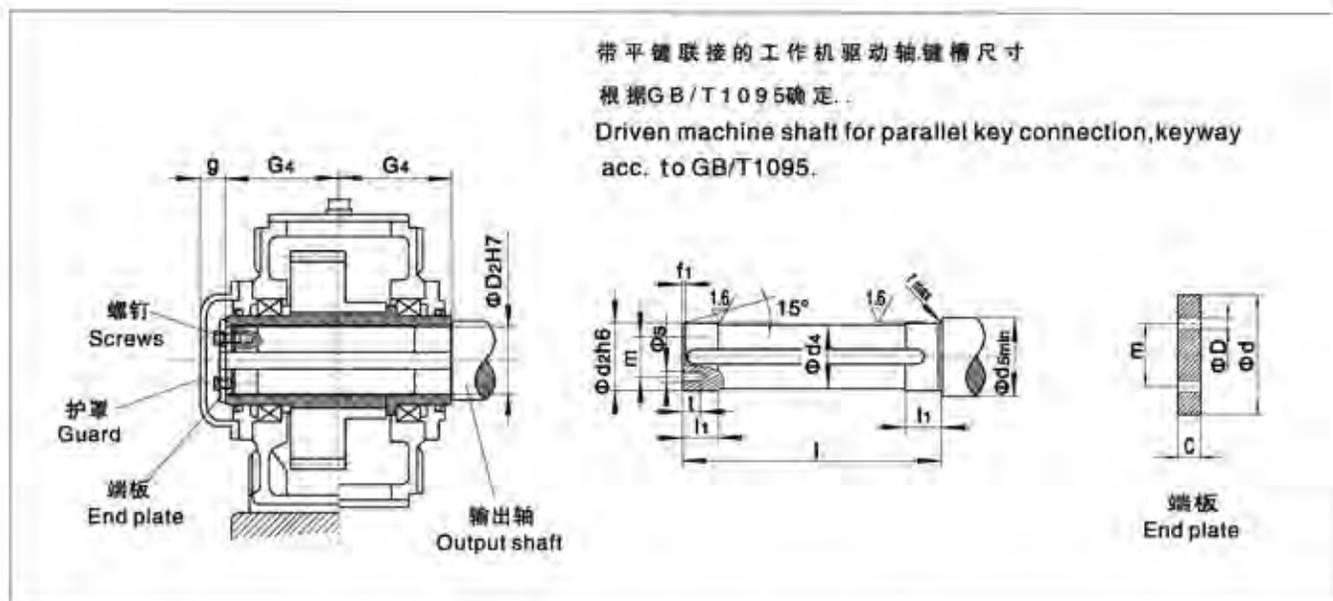
规格 2...18

Gear Units

Hollow Shaft for Parallel Key Connections

Type TB2

Sizes 2...18



减 速 器 规格 Gear unit size	类型TB2H 工作机驱动轴 ¹⁾ Driven machine shaft										Types TB2 端板 End plate			螺钉 Screw		空心轴 Hollow shaft		
	d ₂	d ₄	d ₅	f ₁	l	l ₁	r	s	t	c	D	d	m	规格 Type	数量 Qty.	D ₂	G ₄	g
	mm															mm		
2	55	54.5	63	3	268	30	1.2	M8	15	8	9	70	40	M8×20	2	55	135	35
3	65	64.5	73	4	288	30	1.2	M10	18	8	11	78	45	M10×25	2	65	145	35
4	80	79.5	88	4	338	35	1.2	M10	18	10	11	100	60	M10×25	2	80	170	35
5	85	84.5	105	5	398	40	1.8	M10	18	10	11	120	70	M10×25	2	95	200	40
6	105	104.5	116	5	398	45	1.8	M10	18	10	11	120	70	M10×25	2	105	200	40
7	115	114.5	126	5	468	50	1.8	M12	20	12	13.5	140	80	M12×30	2	115	235	40
8	125	124.5	136	6	468	55	2.5	M12	20	12	13.5	150	85	M12×30	2	125	235	40
9	135	134.5	147	6	537	60	2.5	M12	20	12	13.5	150	90	M12×30	2	135	270	45
10	150	149.5	162	6	537	65	2.5	M12	20	12	13.5	185	110	M12×30	2	150	270	45
11	165	164.5	177	7	637	70	2.5	M16	28	15	17.5	195	120	M16×40	2	165	320	45
12	180	179.5	192	7	637	75	2.5	M16	28	15	17.5	220	130	M16×40	2	180	320	45
14	210	209.5	226	8	777	85	3	M16	28	18	17.5	250	160	M16×40	2	210	390	45
16	240	239.5	258	8	896	100	3	M20	38	25	22	280	180	M20×55	4	240	450	60
18	275	274.5	295	9	1016	120	4	M20	38	25	22	330	210	M20×55	4	275	510	60

1) 工作机驱动轴材质: 60钢或强度更高的钢。

平键不在我们的供货范围之内。

如果需要的话, 请另行订货。

1) Material of driven machine shaft: C60N or higher strength.

Parallel key does not belong to our scope of supply.

Please order separately, if required.

减 速 器

Gear Units

与法兰轴联接的对接法兰

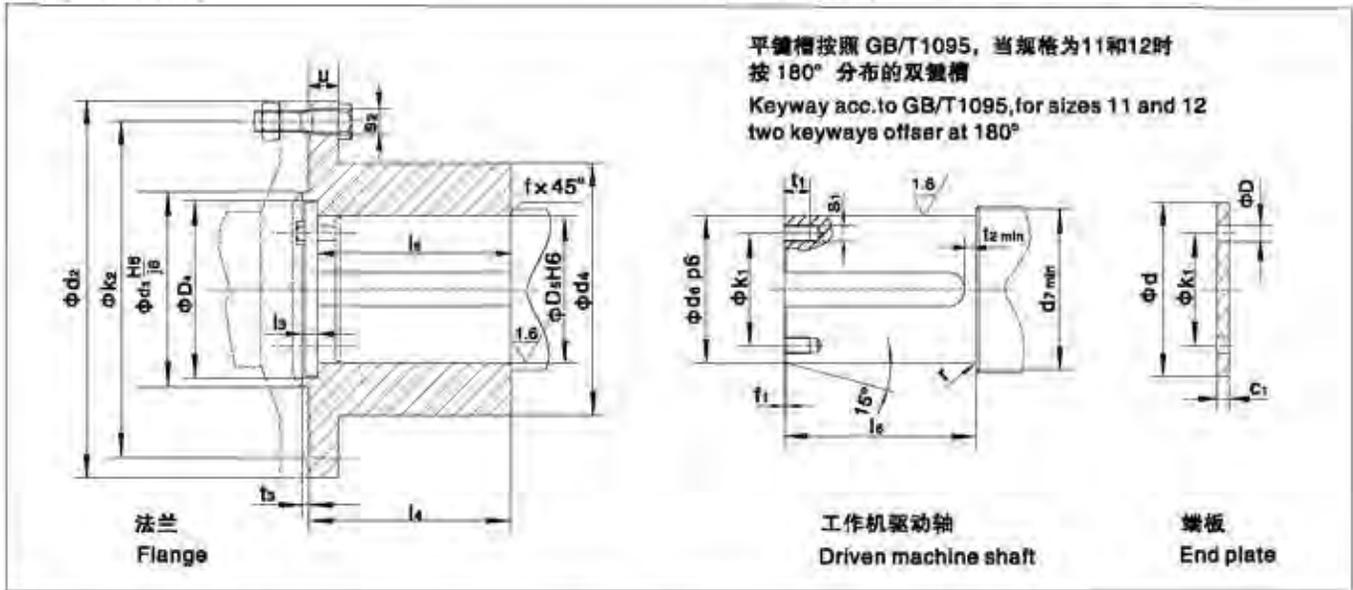
Counterflanges for Flanged Shafts

类型 TH2, TH3, TH4, TB2, TB3, TB4

Type TH2, TH3, TH4, TB2, TB3, TB4

规格 5...12

Size 5...12



类型 / Types TH2F., TH3F., TH4F., TB2F., TB3F., TB4F.

规格 Size	法兰 / Flange													螺栓 / Bolt ¹⁾		
	d_2	d_3	d_4	D_4	D_5	f	k_2	l_3	l_4	l_5	s_2	t_3	u	规格 Size	数量 Qty.	T_A ²⁾
	mm															Nm
5	300	150	190	135	110	2.5	260	16	175	167	M20	8	25	M20 x 70	16	610
6	320	160	210	145	120	2.5	280	22	185	171	M20	8	25	M20 x 70	18	610
7	370	180	230	160	135	2.5	320	21	220	207	M24	8	30	M24 x 90	16	1050
8	390	190	270	175	150	2.5	340	22	220	206	M24	8	30	M24 x 90	18	1050
9	430	220	290	195	160	4.0	380	22	250	238	M24	10	38	M24 x 100	20	1050
10	470	240	310	220	180	4.0	420	22	250	238	M24	10	38	M24 x 100	22	1050
11	510	260	340	235	200	4.0	450	22	290	278	M30	10	42	M30 x 120	18	2100
12	540	280	360	255	210	4.0	480	22	290	278	M30	10	42	M30 x 120	22	2100

规格 Size	工作机驱动轴 Driven machine shaft										端板 End plate				螺栓 / Bolt		重量 Weight kg
	d_6	d_7	f_1	k_1	l_6	r	s_1	t_1	t_2	c_1	d	D	k_1	规格 Size	数量 Qty.		
	mm										mm						
5	110	122	2.5	80	165	2	M12	26	7.5	10	130	13.5	80	M12 x 35	4	35	
6	120	132	2.5	95	169	2	M16	32	7.5	14	140	17.5	95	M16 x 45	4	45	
7	135	147	2.5	95	205	2	M16	32	16	14	155	17.5	95	M16 x 45	4	65	
8	150	162	2.5	110	204	2	M16	32	16	16	170	17.5	110	M16 x 45	4	85	
9	160	176	4.0	110	235	3	M16	32	16	16	190	17.5	110	M16 x 45	4	115	
10	180	196	4.0	145	235	3	M20	38	16	18	215	22	145	M20 x 55	4	130	
11	200	216	4.0	145	275	3	M20	38	16	18	230	22	145	M20 x 55	4	175	
12	210	230	4.0	160	275	3	M20	38	16	18	250	22	160	M20 x 55	4	200	

平键不在供货范围内。如果需要请另行订购。

Parallel key does not belong to our scope of supply. Please orderseparately,if required.

- 1) 螺栓按照 GB/T5783, 性能等级为10.9级;
螺母按照 GB/T5783, 性能等级为10级
- 2) 法兰联接螺栓的拧紧力矩。

- 1) Bolts acc.to GB/T5783, material 10.9;
Nuts acc.to GB/T5783, material 10
- 2) Tightening torque of flange connection bolts

外形安装尺寸 Mounting Dimension Sheets—overview



减 速 器

Gear Units

与法兰轴联接的对接法兰

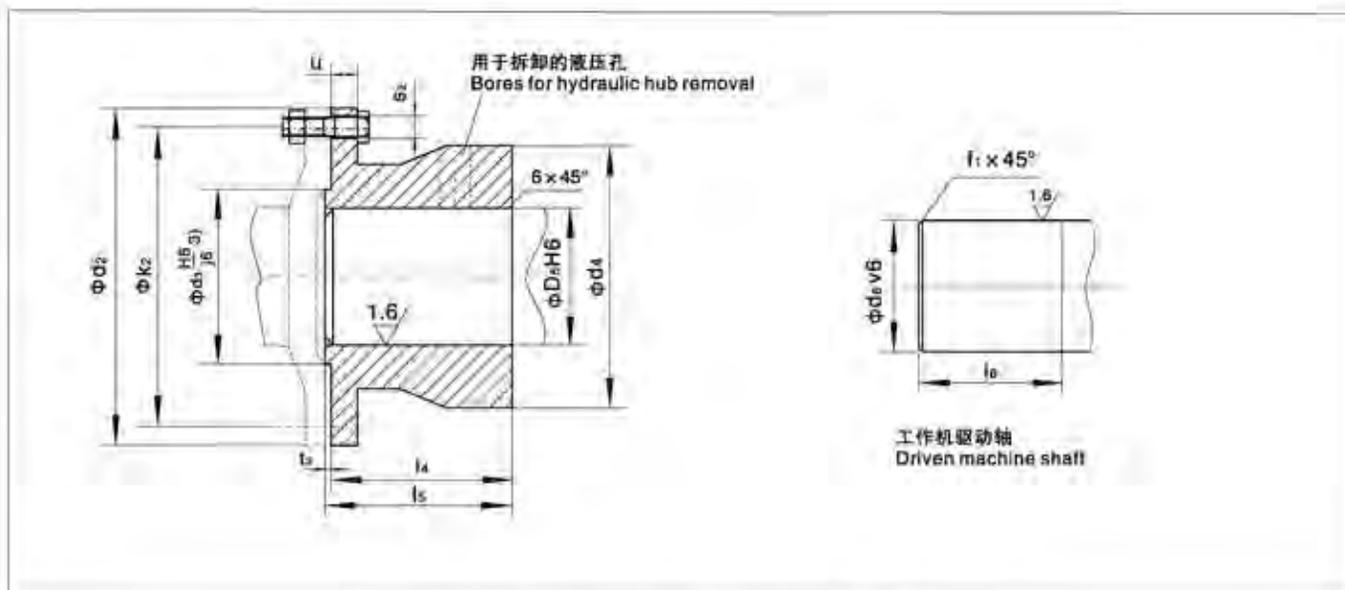
Counterflanges for Flanged Shafts

类型 TH2, TH3, TH4, TB2, TB3, TB4

Type TH2, TH3, TH4, TB2, TB3, TB4

规格 13...28

Size 13...28



类型 / Types TH2F., TH3F., TH4F., TB2F., TB3F., TB4F.

规格 Size	法兰 / Flange										螺栓 / Bolt ¹⁾			工作机驱动轴 Driven machine shaft			重量 Weight kg
	d ₂	d ₃	d ₄	D ₅ ²⁾	k ₂	l ₄	l ₅	s ₂	t ₃	u	规格 Size	数量 Qty.	T _A Nm	d ₅	f ₁	l ₆	
	mm													mm			
13	580	310	390	240	500	310	322	M30	12	48	M30 × 130	20	2100	240	3	322	235
14	620	310	425	260	540	345	357	M30	12	48	M30 × 130	24	2100	260	3	357	300
15	710	360	460	280	630	365	380	M30	15	55	M30 × 140	28	2100	280	3	380	400
16	740	360	480	300	660	395	410	M30	15	55	M30 × 140	30	2100	300	4	410	450
17	750	410	520	320	660	420	436	M36	16	60	M36 × 160	24	3560	320	4	436	540
18	800	410	550	340	710	450	466	M36	16	60	M36 × 160	26	3560	340	4	466	650
19-28	敬请垂询 / On request																

- 1) 螺栓按照 GB/T5783, 性能等级为10.9级;
螺母按照 GB/T6170, 性能等级为10级
- 2) 需要其它尺寸请垂询 (如地脚安装就可以采用较小的D₅尺寸)。
- 3) 在热压冷缩配合后保证尺寸d₃公差为j6
带键槽的对接法兰请垂询。
对接法兰在装配时应加热至 190°C, 工作机驱动轴应在 20°C

- 1) Bolts acc. to GB/T5783, material 10.9;
Nuts acc. to GB/T5783, material 10.
- 2) Other diameters on request. (For foot-mounted design, smaller bores D₅ are possible).
- 3) Ensure the tolerance of Dimension d₃ as j6 after shrink fitting.
Counterflange with keyway on request.
For assembly, heat counterflange to 190°C, and driven machine shaft to 20°C.

注: 该法兰用户自配, 尺寸供设计时参考。
Note: The flange is equipped by customer, dimensions are reference for designing.

减 速 器

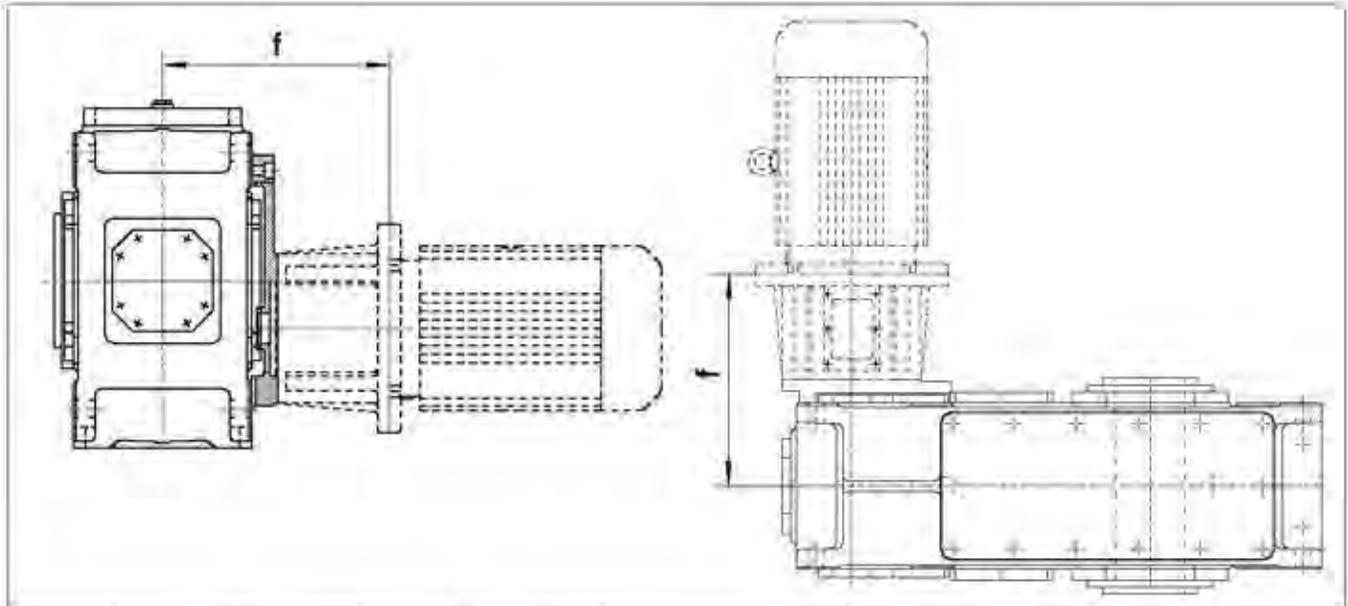
Gear Units

电机钟形支座附件70

Motor mounting with flanges

类型 TH2, TH3, TH4

Type TH2, TH3, TH4



TH2..						
电机功率 Motor Power	4	5/6	7/8	9	10	f mm
	11-15kW	403				
18.5-22kW	403	428				
30kW	405	430	490			
37-45kW	442	467	527	567	572	
55kW		467	527	567	572	
75-90kW			527	567	572	

TH4..							
电机功率 Motor Power	7/8	9		10		11/12	f mm
	传动比 i _n / Ratio i _n						
	≥ 200		≤ 180		≥ 200			≤ 180
2.2-4kW	318						
5.5-7.5kW	341	379		384			
11-15kW	383	421	430	426	435	493	
18.5-22kW		421	430	426	435	493	
30kW			432		437	495	
37-45kW			469		474	532	
55kW						532	

TH3..		规 格 / Size										
电机功率 Motor Power	5/6	7/8		9		10		11/12			f mm	
	传动比 i _n / Ratio i _n											
	≥50/≥63	≤45/≤56	≥50/≥63	≤45/≤56	≥ 50	≤ 45	≥ 63	≤ 56	≥71/≥90	=50-63 / =63-80		≤45/≤56
5.5-7.5kW	318.5											
11-15kW	360.5	378.5	390		463	508	468	513				
18.5-22kW	360.5	378.5	390	415	463	508	468	513				
30kW	362.5	380.5	392	417	465	510	470	515				
37-45kW		417.5	429	454	502	547	507	552	507	532	577	
55kW		417.5	429	454	502	547	507	552	507	532	577	
75-90kW					502	547	507	552	507	532	577	

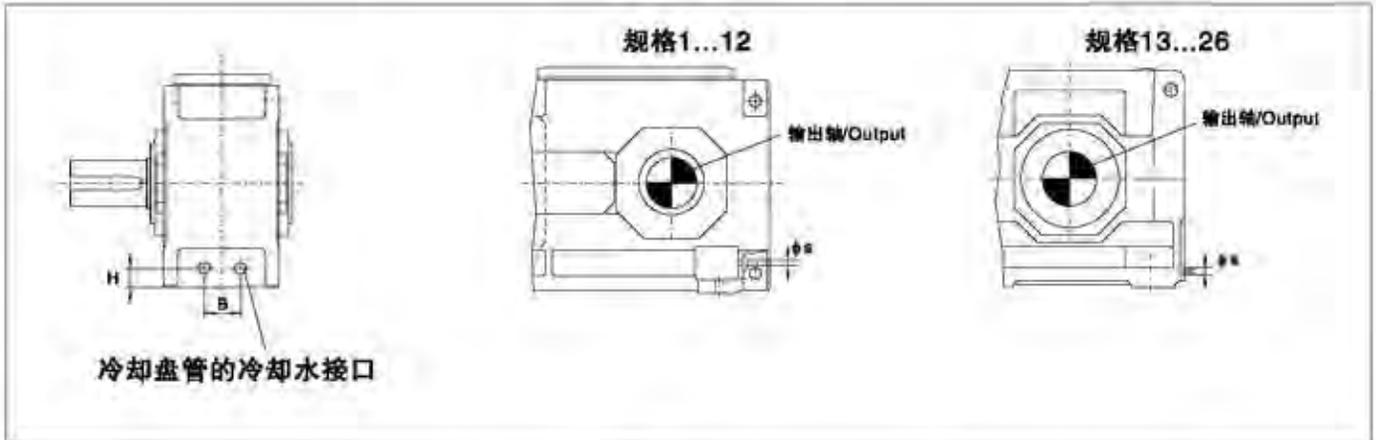
注：此表数据系电机为4极时。标准电机的安装尺寸参见 附8

Note: Data in the above table calculated based on 4 pole motor. Fitting dimensions for standard motors see page attach 8

注：电机55kW(含)以上需加辅助支撑

内置冷却盘管 附件79

Built in cooling coil annex 79



规格	TH1..			TH2.. TB3..			TH3..			TB2..		
	B	H	S	B	H	S	B	H	S	B	H	S
1	30	45	G1/4									
2										60	35	G1/4
3	48	74	G1/2	50	55	G1/2				70	52	G1/2
4				60	60	G1/2				74	54	G1/2
5	88	90	G1/2	68	60	G1/2	70	60	G1/2	130	62	G1/2
6				70	68	G1/2	70	69	G1/2	120	68	G1/2
7	124	135	G1/2	100	83	G1/2	100	83	G1/2	195	70	G1/2
8				100	83	G1/2	100	83	G1/2	100	83	G1/2
9	116	110	G1/2	140	85	G1/2	90	85	G1/2	232	110	G1/2
10				100	95	G1/2	90	95	G1/2	232	110	G1/2
11	146	130	G1/2	110	95	G1/2	125	95	G1/2	312	110	G1/2
12				200	109	G1/2	125	109	G1/2	312	110	G1/2
13	152	150	G1/2	252	116	G1/2	252	116	G1/2	324	116	G1/2
14				252	116	G1/2	252	116	G1/2	324	116	G1/2
15	172	130	G1/2	200	119	G1/2	200	119	G1/2	396	119	G1/2
16				200	119	G1/2	200	119	G1/2	396	119	G1/2
17	202	145	G1/2	300	134	G1/2	300	134	G1/2	324	134	G1/2
18				300	134	G1/2	300	134	G1/2	324	134	G1/2
19-26	根据用户要求供货											

布置形式
Arrangement form



减速器
布置形式
类型 TH1...TH4, TB2...TB4
规格 1...28

Gear Units
Design
Types TH2...TH4, TB2...TB4
Sizes 1...28

平行轴减速器 Helical gear units	(视图方向: 水平放置从上向下看) (View orientation: placed horizontally from looking down)	直交轴减速器 Bevel-helical gear units	(视图方向: 同平行轴减速器) (View orientation: The same as the helical gear units)
实心轴 / Solid shaft			
TH.SH		TB.SH	
带胀紧套空心轴 / Hollow shaft for shrink disk *)			
TH.DH, TH.DM		TB.DH, TB.DM	
空心轴 / Hollow shaft *)			
TH.HH, TH.HM		TB.HH, TB.HM	
法兰轴 / Flanged shaft			
TH.FH, TH.FM		TB.FH, TB.FM	
带花键空心轴 / hollow shaft with involute spline			
TH.KH, TH.KM		TB.KH, TB.KM	

*) 箭头表示工作机驱动轴插入方向。

*) The arrow indicates the direction of insertion of the driven machine shaft.

减 速 器
布置形式
类型 TH2...TH4, TB2...TB4
规格 1...28

Gear Units
Design
Types TH2...TH4, TB2...TB4
Sizes 1...28

平行轴减速器 Helical gear units		(视图方向:立式放置,面对视孔盖看) (View orientation: placed in vertical and look from the cover to view)		直交轴减速器 Bevel-helical gear units		(视图方向:同平行轴减速器) (View orientation: The same as the helical gear units)	
实心轴 / Solid shaft							
TH.SV 				TB.SV 			
带胀紧盘空心轴 / Hollow shaft for shrink disk *)							
TH.DV 				TB.DV 			
空心轴 / Hollow shaft *)							
TH.HV 				TB.HV 			
法兰轴 / Flanged shaft							
TH.FV 				TB.FV 			
带花键空心轴 / hollow shaft with involute spline							
TH.KV 				TB.KV 			

*) 箭头表示工作机驱动轴插入方向。

*) The arrow indicates the direction of insertion of the driven machine shaft.

外形安装尺寸 Mounting Dimension Sheets—overview



齿轮箱

齿轮箱减振扭力臂支撑附件75

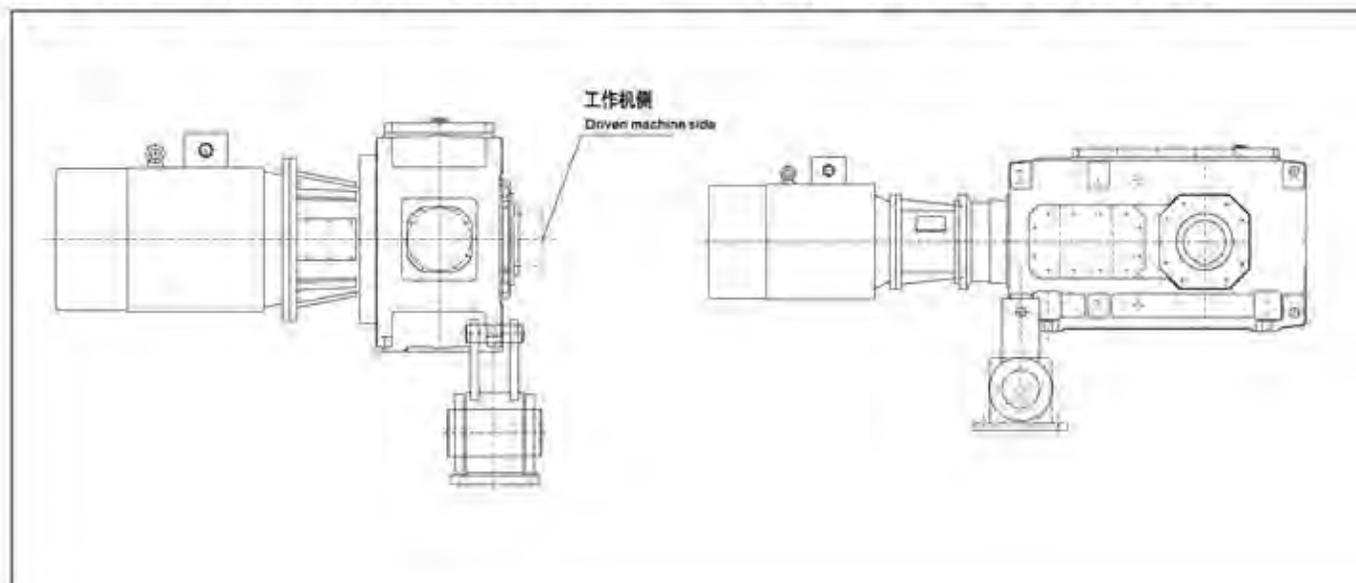
类型 TH2, TH3, TH4, TB2, TB3, TB4 扭力臂

Gear Units

Vibration reducing

Torque Supports for Gear Housing Torque arm75

Types H2,H3,H4,B2,B3,B4 Torque arm



最大传递扭矩受扭力臂支撑的限制:

$$T_{\max} = f_{\text{DMST}} * T_{2N\text{enn}}$$

The maximum transmissible torque is limited by the torque support:

$$T_{\max} = f_{\text{DMST}} * T_{2N\text{enn}}$$

表1/Table 1

扭力臂支撑的峰值扭矩系数 f_{DMST} ¹⁾
Peak torque factor f_{DMST} for torque support

齿轮箱规格 Gear unit size	类型 / Type					
	H2	H3	H4	B2	B3	B4
4	1.3	-	-	1.2	1.2	-
5	1.9	2.0	-	1.2	1.6	2.0
6	1.6	1.7	-	1.2	1.4	1.7
7	2.0	2.0	2.0	1.3	1.8	2.0
8	1.7	2.0	2.0	1.2	1.6	2.0
9	1.5	1.6	1.7	1.2	1.2	1.7
10	1.3	1.4	1.4	1.2	1.2	1.4
11	2.0	2.0	2.0	1.9	2.0	1.2
12	2.0	2.0	2.0	1.8	2.0	1.2
13	-	2.0	2.0	1.4	1.8	2.0
14	-	1.9	2.0	1.3	1.7	2.0
15	-	1.5	1.7	-	1.4	1.6
16	-	1.4	1.5	-	1.3	1.5
17	-	1.2	1.3	-	1.2	1.3
18	-	1.2	1.2	-	1.2	1.2
19-26	敬请垂询/on request					

1)表中给出的数值为最小值, 旋转方向和电机类型确定后有可能允许更大的峰值扭矩。请垂询!

1)The values in the table are minimum values. Dependent on direction of rotation and motortype, higher peak torques may possibly be allowed. Please consult us!

齿轮箱

齿轮箱减振扭力臂支撑附件75

类型 TH2, TH3, TH4, TB2, TB3, TB4 扭力臂

Gear Units

Vibration reducing

Torque Supports for Gear Housing Torque arm75

Types H2,H3,H4,B2,B3,B4 Torque arm

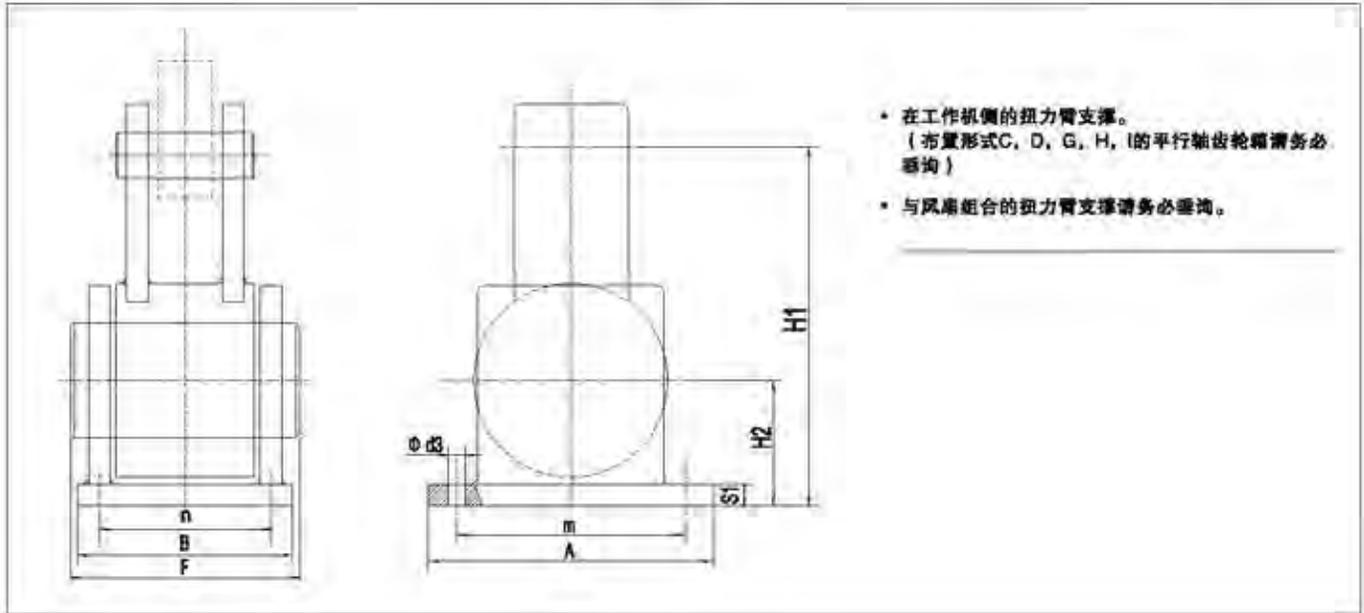


表2/Table 2

齿轮箱规格 Gear unit size	A	B	ϕd_3	F	H ₁ (mm)	H ₂	m	n	S ₁	重量 Weight (Kg)
4	160	110	19	116	200	65	120	70	15	7.5
5+6	200	160	19	170	250	90	160	120	20	16
7+8	320	200	19	195	400	140	260	130	25	37
9+10										42
11+12	400	300	24	320	500	175	320	240	30	155
13+14										159
15+16										163
17+18										167
19-28										敬请垂询/on request

TB
TH

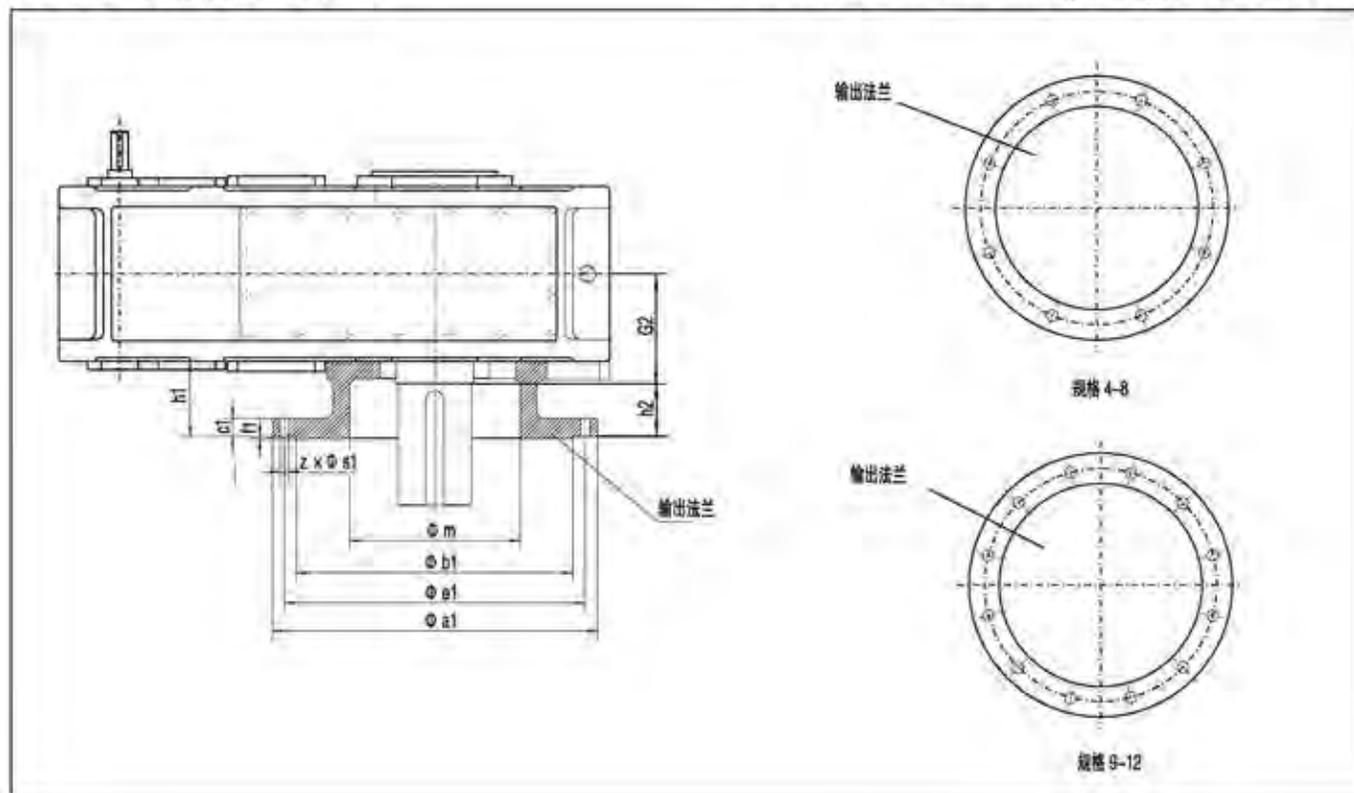
117

外形安装尺寸
Mounting Dimension Sheets—overview



齿轮箱安装法兰. 附件74

Gear Units mounting flange. Annex 74



规格 Size	a1	b1	c1	e1	f1	h1	h2		m _{max}	ZXS1	附加重量 Add.weight kg	G2	
							H2,H3,H4,B3,B4	B2				H2,H3,H4,B3,B4	B2
4	450	350f7	24.5	400	5	82.5	50	47.5	153	8*17.5	40	140	170
5	550	450f7	25	500	5	90	52.5	50	190	8*17.5	60	165	200
6	550	450f7	25	500	5	90	52.5	50	260	8*17.5	65	165	200
7	660	550f7	30	600	5	135	90	90	250	8*22	90	195	235
8	660	550f7	30	600	5	135	90	90	255	8*22	100	195	235
9	660	550f7	29	600	6	134	84	84	290	12*22	150	235	270
10	660	550f7	34	600	6	134	89	84	320	12*26	160	235	270
11	800	680f7	44	740	6	184	129	129	340	12*26	210	270	320
12	800	680f7	44	740	6	184	129	129	360	12*26	220	270	320

竖直安装底座. 附件96

Vertical mounting attachment 96.

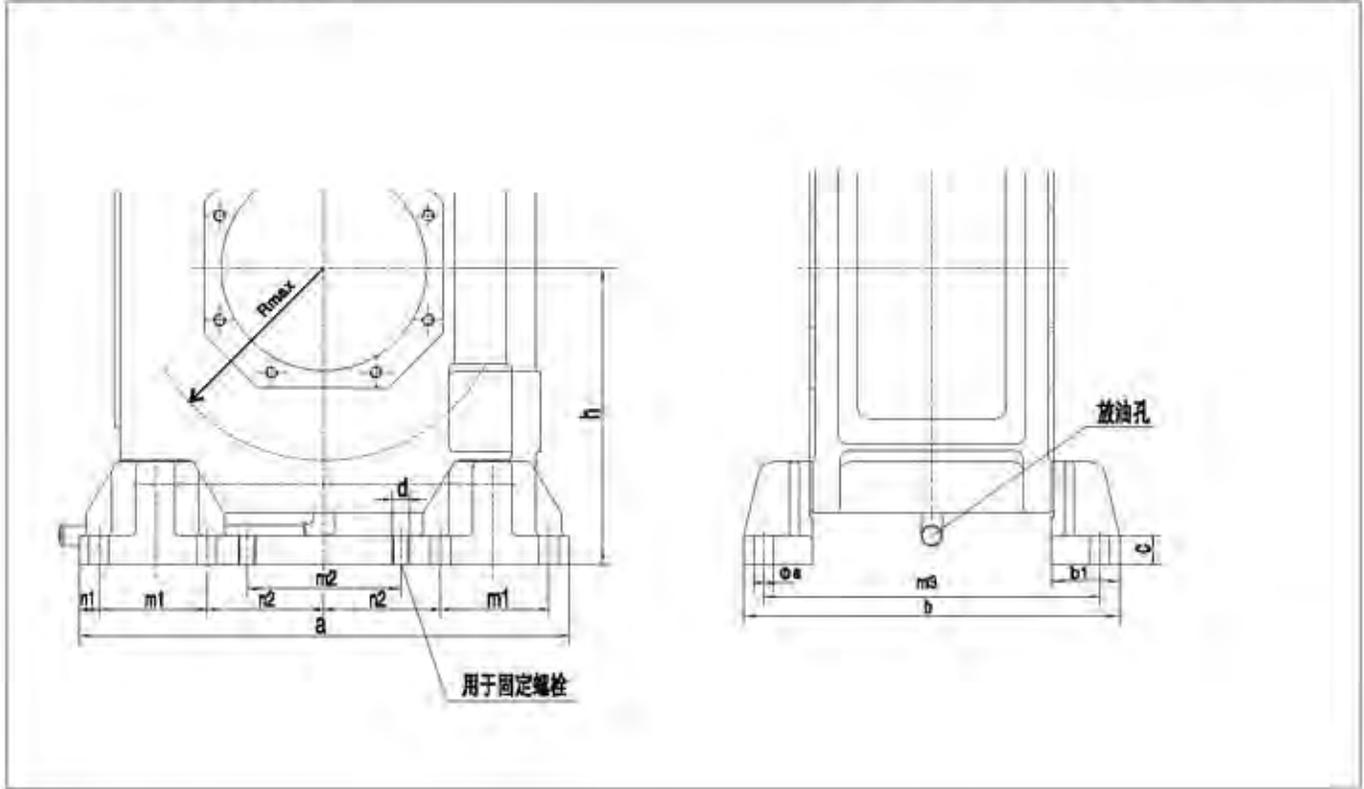


表1/Table 1

规格 Size	H2, H3, H4, B2, B3, B4											H2, H3, H4 B3, B4		B2	
	a	b ₁	c	4*d	h	m ₁	m ₂	n ₁	n ₂	8*φs	R _{max}	b	m ₃	b	m ₃
4	450	70	28	M16	255	110	130	20	95	19	160	355	315	410	370
5	510	70	28	M16	270	110	170	20	125	19	190	395	355	460	420
6					315						220				
7	610	85	35	M20	325	130	200	25	150	24	230	470	420	550	500
8					385						270				
9	710	105	40	M24	380	160	230	30	165	28	260	580	520	650	590
10					430						300					590	530
11	860	115	50	M30	435	190	270	35	205	35	340	660	590	760	690
12					520						380				
13	965	97.5	60	M30	430	260	230	37.5	185	35	300	745	665	850	770
14					500						360				
15	1060	107.5	70	M36	505	300	190	45	185	42	350	840	750	980	890
16					550						400				
17	1210	120	80	M42	550	340	250	55	210	48	390	930	820	1125	1015
18					610						440				
19-28	敬请垂询/on request														

1)表中给出的数值为最小值, 旋转方向和电机类型确定后有可能允许更大的峰值扭矩, 请垂询!

1)the values in the table are minimum values. Dependent on direction of rotation and motortype, higher peak torques may possibly be allowed. Please consult us!



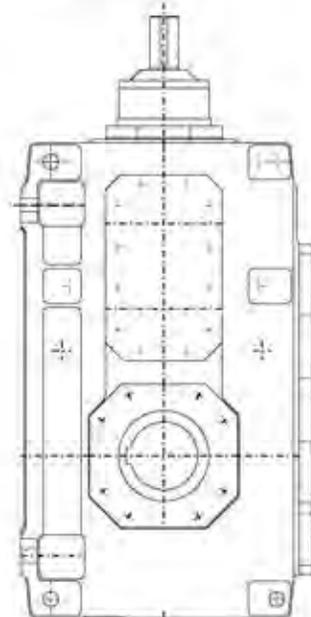
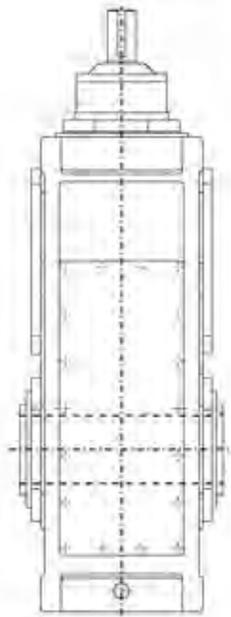
齿轮箱特殊安装位置

Gear units special mounting positions

规格 4-18

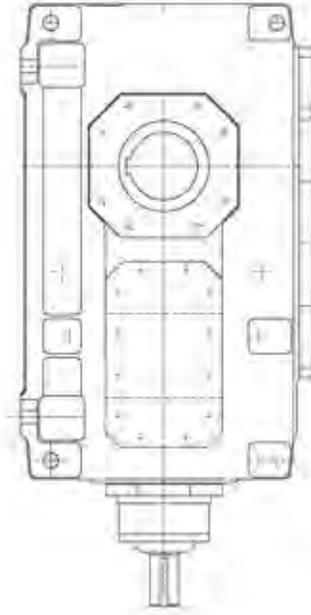
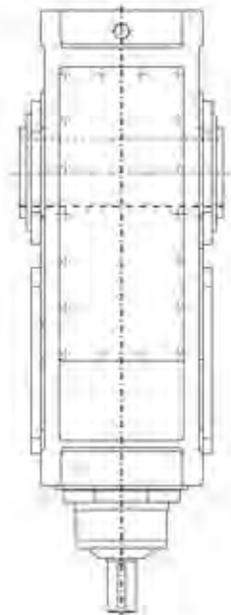
Sizes 4-18

安装位置：输入轴d,在上部
Mounting position:shaft d, upward



E

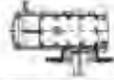
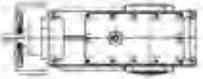
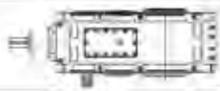
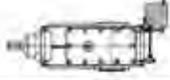
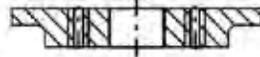
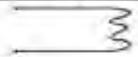
安装位置：输入轴d,在下部
Mounting position:shaft d, downward



F

附件代号一览表:

Accessories:

代号 Code	附件 Accessories	示例 Illustrations	页码 Page
70	输入连接法兰		TBTH111-112
71	齿轮箱浮动底座		—
72	电机安装架		—
74	安装法兰		TBTH118
75	扭力臂		TBTH116
76	浮动底座扭力臂		TBTH117
78	逆止器		—
79	内置冷却盘管		TBTH113
80	外置水冷式油冷却器		—
81	外置风冷式油冷却器		—
82	配管路 (客户带稀油站)		—
83	配稀油站		—
84	冷却风扇 fan		TBTH41-96
85	轴端油泵润滑		—
86	电机油泵强制润滑		—
87	补偿油箱浸油润滑		TBTH77-98
88	输出端板		TBTH101-108
89	电加热器		敬请垂询 on request
90	输出防护罩		TBTH101-108
96	竖直安装底座		TBTH119

选型参数表
Selection Table



平行轴减速器

Helical Gear Units

实际传动比

Actual Ratios

类型 TH1..., TH2..., TH3..., TH4...

Types TH1..., TH2..., TH3..., TH4...

规格 1..13

Sizes 1..13

i _N	实际传动比 i						Actual ratios i						
	规格												
	Sizes												
	1	2	3	4	5	6	7	8	9	10	11	12	13
1.25	1.250	-	1.243	-	1.256	-	1.263	-	1.27	-	-	-	-
1.4	1.415	-	1.371	-	1.378	-	1.389	-	1.400	-	-	-	-
1.6	1.605	-	1.594	-	1.588	-	1.606	-	1.625	-	1.636	-	1.588
1.8	1.829	-	1.829	-	1.838	-	1.774	-	1.800	-	1.808	-	1.839
2.0	2.000	-	2.000	-	2.034	-	1.966	-	2.000	-	2.000	-	2.034
2.24	2.194	-	2.194	-	2.259	-	2.308	-	2.231	-	2.222	-	2.259
2.5	2.536	-	2.536	-	2.520	-	2.583	-	2.500	-	2.480	-	2.520
2.8	2.808	-	2.808	-	2.826	-	2.800	-	2.741	-	2.783	-	2.826
3.15	3.125	-	3.125	-	3.190	-	3.130	-	3.208	-	3.080	-	3.208
3.55	3.500	-	3.500	-	3.591	-	3.524	-	3.591	-	3.478	-	3.591
4.0	3.950	-	3.950	-	4.050	-	4.000	-	4.050	-	3.905	-	4.050
4.5	4.476	-	4.435	-	4.619	-	4.400	-	4.381	-	4.421	-	4.619
5.0	5.053	-	4.952	-	4.900	-	4.905	-	4.947	-	5.150	-	4.900
5.6	5.571	-	5.579	-	5.556	-	5.528	-	5.684	-	5.474	-	5.556
6.3	-	-	6.232	6.319	6.286	-	6.088	-	6.26	-	6.246	-	6.410
7.1	-	-	7.099	6.844	7.213	-	7.048	-	7.247	-	6.900	-	7.100
8.0	-	-	7.765	7.778	7.889	7.792	7.799	7.676	8.018	7.848	7.644	7.941	7.889
9.0	-	-	8.516	8.485	8.652	8.940	8.660	8.887	8.904	9.085	8.974	8.772	8.799
10	-	-	9.845	9.722	10.002	9.778	9.660	9.833	9.932	10.053	10.046	9.718	9.861
11.2	-	-	10.900	10.694	11.075	10.724	10.648	10.920	11.138	11.163	10.889	11.410	10.811
12.5	-	-	12.132	12.444	12.326	12.397	11.807	12.180	12.574	12.452	12.174	12.773	12.655
14	-	-	13.588	13.854	13.808	13.726	13.939	13.426	14.152	13.964	13.704	13.844	14.164
16	-	-	15.335	15.558	15.581	15.278	15.717	14.887	15.962	15.765	15.556	15.478	15.975
18	-	-	17.378	17.602	17.493	17.111	17.598	17.576	18.204	17.743	17.111	17.423	17.280
20	-	-	19.616	19.444	19.534	19.311	19.742	19.817	19.312	20.012	19.074	19.778	19.515
22.4	-	-	21.630	22.037	22.006	21.681	20.982	22.189	21.895	22.824	21.491	21.756	22.020
25	-	-	-	-	25.011	24.212	25.54	24.892	25.439	24.212	24.706	24.251	25.372
28	-	-	-	-	28.490	27.275	27.661	26.456	29.187	27.451	28.602	27.325	29.373
31.5	-	-	-	-	31.161	30.899	31.493	32.202	31.924	31.894	31.648	31.412	32.501
35.5	-	-	-	-	34.177	35.312	34.291	34.877	35.013	36.593	35.144	36.366	36.092
40	-	-	-	-	39.508	38.622	39.292	39.633	40.474	40.024	39.200	40.238	40.257
45	-	-	-	-	43.745	42.380	43.221	43.236	44.816	43.897	43.210	44.683	45.147
50	-	-	-	-	48.689	48.967	50.293	49.542	49.881	50.744	47.911	49.840	50.968
56	-	-	-	-	54.532	54.220	55.991	54.496	55.866	56.187	56.566	54.938	57.365
63	-	-	-	-	61.543	60.347	62.867	63.419	63.049	62.537	63.778	60.916	64.699
71	-	-	-	-	69.742	67.589	71.139	70.597	70.787	70.041	71.414	71.919	73.789
80	-	-	-	-	78.723	76.279	78.583	79.267	79.049	79.046	80.111	81.089	78.278
90	-	-	-	-	86.806	86.440	89.061	89.696	89.050	88.748	85.146	90.798	88.750
100	-	-	-	-	-	97.572	101.554	99.083	101.210	99.106	103.638	101.856	103.114
112	-	-	-	-	-	107.590	115.256	112.294	115.290	111.645	112.249	108.257	118.306
125	-	-	-	-	-	-	125.733	128.046	126.098	126.89	127.556	131.769	129.398
140	-	-	-	-	-	-	143.985	145.322	138.301	144.542	139.152	142.716	141.920
160	-	-	-	-	-	-	158.251	158.533	159.874	158.093	159.444	162.178	164.058
180	-	-	-	-	-	-	174.630	181.546	177.022	173.392	175.389	176.921	181.654
200	-	-	-	-	-	-	193.629	199.533	197.028	200.439	204.089	202.722	202.184
224	-	-	-	-	-	-	228.606	220.185	220.671	221.938	227.208	222.994	226.446
250	-	-	-	-	-	-	257.753	244.141	249.043	247.020	255.111	259.484	255.560
280	-	-	-	-	-	-	288.615	288.242	282.219	276.663	288.678	288.879	286.925
315	-	-	-	-	-	-	305.352	324.993	318.563	312.234	318.889	324.356	320.413
355	-	-	-	-	-	-	344.112	383.908	351.273	353.827	361.407	367.034	360.951
400	-	-	-	-	-	-	-	385.010	-	399.393	-	405.444	-
450	-	-	-	-	-	-	-	433.881	-	440.402	-	459.504	-

平行轴减速器

Helical Gear Units

实际传动比

Actual Ratios

类型 TH1..., TH2..., TH3..., TH4...

Types TH1..., TH2..., TH3..., TH4...

规格 14..28

Sizes 14..28

IN	实际传动比 i														
	Actual ratios i														
	规格							Sizes							
	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.0	-	2.000	-	-	-	-	-	-	-	-	-	-	-	-	-
2.24	-	2.231	-	-	-	-	-	-	-	-	-	-	-	-	-
2.5	-	2.481	-	-	-	-	-	-	-	-	-	-	-	-	-
2.8	-	2.760	-	2.760	-	-	-	-	-	-	-	-	-	-	-
3.15	-	3.087	-	3.087	-	-	-	-	-	-	-	-	-	-	-
3.55	-	3.478	-	3.478	-	-	-	-	-	-	-	-	-	-	-
4.0	-	3.947	-	3.947	-	3.944	-	-	-	-	-	-	-	-	-
4.5	-	4.578	-	4.528	-	4.400	-	-	-	-	-	-	-	-	-
5.0	-	5.100	-	4.900	-	4.950	-	-	-	-	-	-	-	-	-
5.8	-	5.778	-	5.558	-	5.700	-	-	-	-	-	-	-	-	-
6.3	-	6.449	-	6.154	-	6.410	-	6.500	-	6.306	-	6.280	-	-	-
7.1	-	7.120	7.316	7.125	7.147	7.100	7.313	7.200	7.258	7.038	7.059	6.915	7.232	-	-
8.0	7.944	7.882	8.076	7.884	8.274	7.889	8.100	8.000	8.040	7.882	7.878	7.635	7.963	8.184	-
9.0	8.800	8.758	8.941	8.755	9.155	8.799	9.000	8.923	8.933	8.868	8.824	8.915	8.792	8.949	9.295
10	9.778	9.774	9.936	9.765	10.187	9.788	10.038	9.928	9.984	9.780	9.926	9.939	10.266	10.148	10.188
11.2	10.908	10.967	11.087	10.951	11.340	10.887	11.167	11.040	11.084	10.878	10.948	11.141	11.445	11.594	11.550
12.5	12.222	12.139	12.440	12.432	12.717	12.176	12.420	12.348	12.328	12.166	12.176	12.571	12.829	12.734	13.199
14	13.399	13.708	13.789	13.915	14.438	13.712	13.891	13.905	13.788	13.700	13.819	13.994	14.476	14.657	14.497
16	15.685	15.389	15.550	15.694	16.159	15.570	15.843	15.789	15.527	15.557	15.338	15.314	15.424	16.651	16.688
18	17.558	17.424	17.457	17.899	18.225	18.061	17.763	18.318	17.632	17.839	17.415	17.082	17.634	17.843	18.957
20	19.800	20.297	19.765	19.988	20.786	20.117	20.605	20.400	20.453	19.312	19.969	19.218	19.671	19.183	20.314
22.4	21.418	21.374	23.024	20.930	22.050	21.782	22.950	22.388	22.780	22.039	21.818	21.108	22.129	23.817	21.799
25	24.187	24.718	24.245	24.202	24.306	25.263	24.850	25.837	24.978	25.457	24.871	24.322	24.306	26.382	27.115
28	27.282	27.304	28.036	26.736	28.106	28.006	28.844	28.523	28.852	28.103	28.497	28.157	28.007	29.314	30.035
31.5	31.447	30.248	30.971	29.619	31.048	31.117	31.950	31.579	31.851	31.115	31.459	31.156	32.424	32.696	33.373
35.6	36.408	35.514	34.311	34.778	34.387	34.708	35.500	36.088	35.283	34.572	34.830	34.598	35.876	36.371	37.223
40	40.283	39.758	40.284	38.929	40.385	38.897	39.598	39.158	38.181	38.582	38.700	38.591	39.840	40.453	41.407
45	44.733	43.090	45.098	42.194	45.208	42.642	44.376	43.936	43.726	43.290	43.189	43.278	44.438	45.245	48.054
50	49.896	48.176	48.878	47.174	49.000	49.817	48.648	48.832	49.062	47.916	48.459	49.132	49.835	50.950	51.510
56	55.957	54.229	54.847	53.102	54.783	55.870	56.948	54.920	54.305	54.112	53.638	54.890	56.576	57.858	59.005
63	63.171	61.557	61.514	60.278	61.887	63.013	63.739	61.654	61.327	60.747	60.573	62.021	63.322	67.113	65.887
71	71.100	67.713	69.826	68.308	70.000	68.182	71.888	69.806	68.847	68.780	68.001	70.735	71.418	74.750	76.406
80	80.190	75.481	76.809	73.912	77.000	76.974	77.762	81.518	77.950	80.120	76.982	75.037	81.452	84.684	85.100
90	91.457	85.046	85.820	83.279	85.833	88.438	87.818	86.427	90.803	85.156	89.687	85.076	86.407	91.045	96.410
100	97.020	97.768	96.471	95.735	96.711	100.079	100.895	99.020	98.510	97.564	95.323	100.783	97.967	104.514	103.460
112	110.000	113.186	110.901	110.833	111.178	115.862	114.174	109.388	110.573	107.778	109.214	111.837	116.054	115.712	118.985
125	127.803	125.238	128.380	122.834	128.710	128.198	132.180	121.182	122.148	119.400	120.647	124.041	128.552	128.569	131.734
140	146.639	139.074	142.060	136.183	142.414	142.362	148.254	142.279	135.320	140.186	133.657	138.354	142.835	143.483	146.371
160	180.380	155.125	167.756	161.900	158.148	158.792	182.413	159.273	158.878	156.931	156.925	155.051	159.316	160.891	163.350
180	175.901	170.993	175.982	167.438	176.400	178.079	181.157	172.832	177.855	170.093	175.689	169.982	178.544	178.197	183.282
200	203.339	188.597	193.982	185.858	194.444	201.040	203.160	193.004	192.772	190.168	190.402	198.983	195.737	201.238	202.870
224	225.149	223.845	215.065	219.192	215.600	226.272	229.355	217.257	215.521	214.062	212.872	222.710	229.132	225.914	229.102
250	250.594	252.385	253.914	247.139	254.545	255.201	258.141	246.817	242.804	242.990	239.622	251.183	256.454	255.785	257.195
280	280.655	282.605	286.288	276.730	287.000	291.058	291.144	271.278	275.388	267.289	272.004	271.709	289.241	287.959	291.201
315	316.751	317.021	320.566	310.431	321.384	308.781	332.052	302.399	302.927	297.952	299.204	306.839	312.877	316.886	339.214
355	355.625	338.948	359.808	329.942	360.500	350.089	352.249	340.720	337.679	335.710	333.528	352.583	353.329	340.473	360.535
400	397.131	-	382.207	-	383.188	-	399.375	-	380.471	-	375.794	-	405.953	-	386.901
450	447.376	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TH
TB

选型参数表
Selection Table



直交轴减速器

Bevel-helical Gear Units

实际传动比

Actual Ratios

类型 TB2...,TB3...,TB4..

Types TB2...,TB3...,TB4..

规格 1..12

Sizes 1..12

i_N	实际传动比 i						Actual ratios i					
	规格						Sizes					
	1	2	3	4	5	6	7	8	9	10	11	12
5.0	4.980	5.043	4.895	4.936	5.006	-	4.865	-	5.002	-	4.897	-
5.6	5.566	5.636	5.471	5.480	5.488	-	5.333	-	5.483	-	5.534	-
6.3	6.445	6.526	6.334	6.296	6.388	6.205	6.206	6.135	6.381	6.271	6.296	6.226
7.1	7.068	7.158	6.947	6.959	7.058	6.802	6.860	6.725	7.053	6.875	7.037	7.036
8.0	7.668	7.765	7.536	7.549	7.657	7.915	7.880	7.825	8.101	8.000	7.994	8.005
9.0	8.829	8.941	8.678	8.693	8.817	8.749	8.569	8.649	8.810	8.842	8.693	8.947
10	10.027	10.154	9.855	9.872	10.108	9.490	9.823	9.935	10.099	10.157	9.965	10.164
11.2	10.938	11.077	10.751	10.769	10.923	10.928	10.615	10.804	10.914	11.045	10.769	11.052
12.5	12.458	12.615	12.244	12.034	12.703	12.528	12.433	12.385	12.554	12.662	12.334	12.670
14	14.005	14.182	13.765	13.484	13.964	13.538	13.515	13.385	14.137	13.683	13.821	13.692
16	15.441	15.636	15.176	15.589	15.835	15.826	16.275	15.773	15.952	15.693	15.522	15.888
18	17.595	17.818	17.294	17.468	17.407	17.307	17.692	17.041	17.963	17.724	17.393	17.572
20	-	-	19.336	19.614	19.645	19.729	19.948	20.648	20.259	19.940	19.744	19.995
22.4	-	-	21.609	21.919	21.954	21.575	22.146	22.308	22.208	22.520	21.643	22.114
25	-	-	25.021	25.380	25.421	24.349	25.446	25.152	25.843	25.400	25.185	25.103
28	-	-	27.442	27.836	27.881	27.211	28.125	27.923	28.563	27.842	27.836	27.517
31.5	-	-	29.769	30.196	30.245	31.508	30.509	32.084	30.985	32.400	31.975	32.021
35.5	-	-	34.279	34.771	34.827	34.557	35.131	35.461	35.679	35.811	34.771	35.392
40	-	-	38.928	39.487	39.551	37.486	39.896	38.468	40.902	38.846	39.861	40.654
45	-	-	42.467	43.077	43.146	43.166	43.523	44.296	44.202	44.732	43.077	44.209
50	-	-	48.365	49.060	49.139	49.021	49.568	50.304	50.341	51.280	49.060	50.681
56	-	-	54.371	55.152	55.240	53.477	55.723	54.877	56.592	55.417	55.152	54.769
63	-	-	59.947	60.808	60.906	60.904	61.438	62.499	62.396	63.114	60.808	62.376
71	-	-	68.312	69.293	69.404	68.467	70.011	70.259	71.102	70.951	69.293	70.121
80	-	-	-	-	77.598	75.489	79.267	77.465	79.497	78.228	80.949	77.313
90	-	-	-	-	86.720	86.022	88.585	88.274	88.842	89.143	89.869	88.101
100	-	-	-	-	100.413	96.178	102.572	99.945	102.869	99.667	103.259	102.921
112	-	-	-	-	110.130	107.484	112.498	111.694	112.824	111.384	114.129	114.262
125	-	-	-	-	119.466	124.455	122.035	129.330	122.389	128.971	123.804	131.287
140	-	-	-	-	137.567	136.499	140.525	141.846	140.933	141.452	142.562	145.106
160	-	-	-	-	156.225	148.071	159.585	153.871	160.047	153.443	161.897	157.408
180	-	-	-	-	170.427	170.506	174.092	177.184	174.597	176.692	176.615	181.258
200	-	-	-	-	194.098	193.631	198.272	201.215	198.847	200.656	201.145	205.841
224	-	-	-	-	218.199	211.234	222.891	219.508	223.537	218.898	226.121	224.554
250	-	-	-	-	240.578	240.572	245.752	249.995	246.464	249.300	249.313	255.742
280	-	-	-	-	274.147	270.443	280.042	281.036	280.855	280.256	284.101	287.497
315	-	-	-	-	302.121	298.181	308.618	309.861	309.513	309.000	313.091	316.984
355	-	-	-	-	-	339.788	-	353.097	-	352.116	-	361.214
400	-	-	-	-	-	374.460	-	389.127	-	388.046	-	398.073
450	-	-	-	-	-	-	-	-	-	-	-	-

TB
TH

直交轴减速器

Bevel-helical Gear Units

实际传动比

Actual Ratios

类型 TB2..., TB3..., TB4...

Types TB2..., TB3..., TB4...

规格 13..28

Sizes 13..28

i _n	实际传动比 i								Actual ratios i							
	规格								Sizes							
	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
5.0	4.957	-	4.953	-	4.880	-	-	-	-	-	-	-	-	-	-	-
5.6	5.613	-	5.609	5.630	5.514	-	-	-	-	-	-	-	-	-	-	-
6.3	6.388	6.156	6.340	6.362	6.234	-	-	-	-	-	-	-	-	-	-	-
7.1	7.138	6.957	7.132	7.192	7.012	7.239	-	-	-	-	-	-	-	-	-	-
8.0	8.108	7.915	8.101	8.090	7.965	8.143	-	-	-	-	-	-	-	-	-	-
9.0	8.817	8.847	8.810	8.810	8.662	8.862	9.250	-	-	-	-	-	-	-	-	-
10	10.108	10.049	10.099	9.993	9.930	10.059	-	-	-	-	-	-	-	-	-	-
11.2	10.923	10.928	10.914	11.456	10.731	11.531	-	-	-	-	-	-	-	-	-	-
12.5	12.482	12.528	12.172	12.380	12.770	12.482	12.062	-	12.258	-	-	-	-	-	-	-
14	13.721	13.538	13.810	13.832	13.790	14.854	13.709	13.698	13.902	13.719	-	-	-	-	-	-
16	16.354	15.552	15.215	15.665	16.226	16.014	15.192	15.640	15.436	15.524	-	-	-	-	-	-
18	17.978	17.007	17.262	17.290	17.522	18.620	17.267	17.252	17.510	17.279	-	-	-	-	-	-
20	20.276	20.376	19.379	19.581	19.783	20.546	19.807	19.698	19.883	19.552	19.591	-	19.284	-	20.784	-
22.4	22.228	22.282	21.900	21.982	22.333	22.950	22.158	22.368	22.470	22.203	22.139	21.930	21.793	22.206	23.578	23.699
25	25.864	25.131	24.916	24.842	25.409	25.936	25.048	25.278	25.400	25.091	25.027	24.783	24.635	25.095	26.522	26.643
28	28.587	27.548	27.847	28.263	28.398	29.507	28.175	28.576	28.571	28.364	28.151	28.015	27.711	28.368	30.128	30.194
31.5	32.838	32.057	31.694	31.588	32.259	32.979	32.005	32.143	32.456	31.905	31.979	31.513	31.478	31.909	32.762	34.300
35.5	35.709	35.432	34.400	35.883	35.080	37.453	34.804	36.513	35.294	36.243	34.775	35.797	34.231	36.248	37.558	37.299
40	40.936	40.700	39.435	39.021	40.215	40.738	39.899	38.706	40.461	39.41	39.866	38.927	39.241	39.417	40.588	42.759
45	44.238	44.258	42.817	44.782	43.480	46.702	43.117	45.518	43.725	45.161	43.082	44.826	42.407	45.187	46.225	48.206
50	50.383	50.738	48.536	48.341	49.496	50.468	49.106	49.190	49.798	48.826	49.065	48.226	48.297	48.833	51.965	52.526
56	56.639	54.831	54.562	55.055	55.641	57.479	55.203	56.022	55.981	55.607	55.158	54.924	54.294	55.615	57.295	59.160
63	62.448	62.448	60.156	61.892	61.348	64.818	60.865	62.978	61.722	62.512	60.815	61.744	59.883	62.520	65.290	65.228
71	71.181	70.200	68.553	68.239	69.909	71.243	69.358	69.438	70.335	68.923	69.301	68.078	68.216	68.933	70.194	74.330
80	82.118	77.400	78.131	77.761	78.506	81.184	79.977	79.127	77.639	78.541	76.497	77.575	78.100	78.551	82.394	79.768
90	90.016	88.200	85.645	88.626	83.865	88.646	87.670	81.242	87.739	85.696	86.448	85.631	88.280	89.933	93.073	93.734
100	104.750	101.780	99.664	97.150	97.593	97.391	102.020	100.017	99.821	97.975	98.363	96.770	100.414	101.633	104.692	105.960
112	115.777	111.568	110.155	113.052	107.865	113.333	112.759	116.389	111.565	111.467	109.924	110.097	112.226	115.629	118.926	119.188
125	125.592	129.831	126.535	124.952	123.904	125.263	129.526	128.541	126.734	124.580	124.870	123.049	127.487	129.232	129.325	135.393
140	144.021	143.498	137.599	143.532	134.739	143.889	140.851	147.769	137.815	141.519	136.786	139.780	138.634	146.803	148.256	147.232
160	165.791	155.883	157.741	156.082	154.462	158.471	161.470	160.890	157.989	153.894	155.865	152.002	158.928	159.639	160.217	168.784
180	178.186	179.248	170.467	178.930	166.923	179.376	174.496	184.212	170.735	176.421	168.224	174.252	171.749	183.008	182.469	182.401
200	204.050	205.487	194.143	193.365	190.107	193.845	198.732	199.073	194.448	190.654	191.588	189.310	195.603	197.772	205.126	207.734
224	229.386	222.065	218.249	220.222	213.712	220.789	228.408	226.722	218.592	217.133	215.377	214.464	219.891	225.240	226.165	233.526
250	252.913	252.907	240.634	247.566	235.631	248.182	246.322	254.874	241.012	244.094	237.467	241.094	242.444	253.208	257.722	257.480
280	289.204	284.310	274.210	272.957	268.510	273.636	280.592	281.015	274.641	269.130	270.602	265.822	276.274	279.178	284.021	293.407
315	317.012	313.470	302.191	311.045	295.909	311.818	309.334	320.226	302.686	306.883	298.215	302.913	304.465	318.133	305.354	323.347
355	-	357.210	-	342.784	-	343.636	-	352.902	-	337.977	-	333.823	-	350.596	-	346.993
400	-	393.660	-	-	-	-	-	-	-	-	-	-	-	-	-	-
450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

减速机润滑

润滑油种类选择

减速机使用工况	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℃)
蜗轮蜗杆油L-CKE/P	-5℃至+100℃(瞬时可达110℃)

注意:如果减速机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℃ in mm ² /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

Working temperature for dip feed lubrication

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

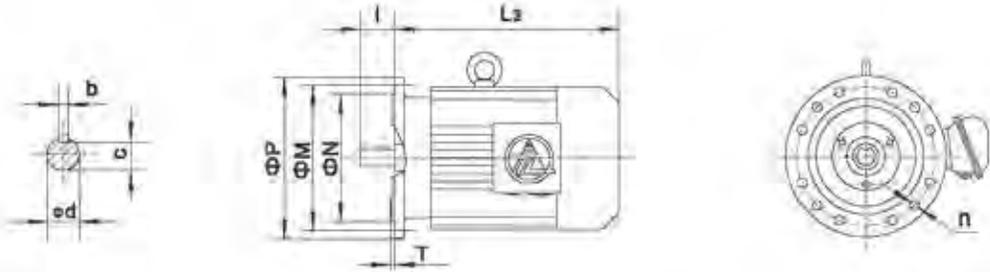
Notes:if the temperatures of gear units are above or below the values as listed in table ,it determines the proper oil again. If the ambient temperatures are below 0℃, the oil has to be heated above 0℃.

Permissible temperature limit for forced feed lubrication

Viscosity ISO-VG at 40℃ in mm ² /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 provided or the oil must be heated.

标准普通电机和特殊电机的参数及安装尺寸
 Standard and ordinary motor or special motor parameter and mounting dimension



电机 机座号 Motor size	4极 4 Pole		6极 6 Pole		8极 8 Pole		L3				安 装 尺 寸 Mounting dimensions								M(kg)						
	P1 (kW)	n1 (r/min)	P1 (kW)	n1 (r/min)	P1 (kW)	n1 (r/min)	Y ₂	B	E	V	M	N	P	n	T	d	l	b	c	Y (铝壳 Aluminum housing)	Y ₁	B	E	V	
63M1	0.12	1390						202	270	328		115	95j6	140	4xΦ10	3	11j6	23	4	8.5	5.5	13			11
63M2	0.18	1390																			6	13.5	15		12
71M1	0.25	1390	0.18	850				225	285	345		130	110j6	160	4xΦ10	3.5	14j8	30	5	11	8.5	14	18	12	14
71M2	0.37	1390	0.25	850																	7.5	14.5	18	13	15
80M1	0.55	1390	0.37	885	0.18	645		255	290	350	310	165	130j6	200	4xΦ12	3.5	19j8	40	6	15.5	10	16	31	20	16
80M2	0.75	1390	0.55	885	0.25	645															11	16	32	21	17
90S	1.1	1400	0.75	910	0.37	670	270	310	370	320	165	130j6	200	4xΦ12	3.5	24j8	50	8	20	16	23	35	27	23	
90L	1.5	1400	1.1	910	0.55	670	295	335	395	345	165	130j6	200	4xΦ12	3.5	24j8	50	8	20	20	25	39	31	28	
100L1	2.2	1420			0.75	680																33	49	41	35
100L2	3	1420	1.5	920	1.1	680	325	370	420	370	215	180j6	250	4xΦ15	4	28j8	60	8	24		35	53	44	36	
112M	4	1440	2.2	940	1.5	690	340	400	450	390	215	180j6	250	4xΦ15	4	28j8	60	8	24		41	67	60	43	
132S	5.5	1440	3	960	2.2	710	390	430	505	450	265	230j6	300	4xΦ15	4	38k6	80	10	33		65	93	85	63	
132M	7.5	1460	4	960	3	710	430	470	545	490	265	230j6	300	4xΦ15	4	38k6	80	10	33		76	105	98	75	
			5.5	960																					
160M	11	1460	7.5	960	4	720	505	545	610	550	300	250h6	350	4xΦ19	5	42k6	110	12	37		118	150	143	116	
					5.5	720																			
160L	15	1460	11	960	7.5	720	560	585	655	595	300	250h6	350	4xΦ19	5	42k6	110	12	37		132	169	165	136	
180M	18.5	1470	/	/	/	/	590	620	715	740	300	250h6	350	4xΦ19	5	48k6	110	14	42.5		164	205	203	169	
180L	22	1470	15	970	11	730	630	640	765	790	300	250h6	350	4xΦ19	5	48k6	110	14	42.5		182	222	216	183	
200L	30	1470	18.5	970	15	730	660	695	790	850	350	300h8	400	4xΦ19	5	55k6	110	16	49		245	300	296	236	
			22	970																					
225S	37	1480	/	/	18.5	730	675	705	860	910	400	350h6	450	8xΦ19	5	60m6	140	18	53		256	360	370	291	
225M	45	1480	30	980	22	730	705	730	890	940	400	350h6	450	8xΦ19	5	60m6	140	18	53		280	390	405	327	
250M	55	1480	37	980	30	730	770	795		1060	500	450h6	550	8xΦ19	5	65m6	140	18	58		388	530	498	393	
280S	75	1480	45	980	37	730	845	870		1160	500	450h6	550	8xΦ19	5	75m6	140	20	67.5		510	660	633	520	
280M	90	1485	55	980	45	740	895	920		1260	500	450h6	550	8xΦ19	5	75m6	140	20	67.5		606	785	723	610	
315S	110	1485	75	980	55	740	1100	1100		1330	600	550h6	660	8xΦ24	6	80m6	170	22	71		910	1000	1150	950	
315M	132	1485	90	985	75	740	1180	1180		1380	600	550h6	660	8xΦ24	6	80m6	170	22	71		1000	1100	1230	1030	
315L	160	1485	110	985	90	740																1055	1100	1320	1100
	200	1485	132	985	110	740	1270	1270			1450	600	550h6	660	8xΦ24	6	80m6	170	22	71		1128	1160	1420	1200

注：由于结构需要及生产厂家不同，有时参数会有所变化，此表仅供参考，准确尺寸请来电垂询。
 Note: Sometimes the parameters may be changed with the different structures and manufacturers, this table is only for reference, please refer to us for the exact dimensions.

APPLICATION
FIELDS
应用领域



钢铁冶金
Steel metallurgy



橡胶塑料
Rubber plastic



石油化工
Petrochemical



环保生态
Environmental
Protection



电力设备
Power equipment



建材机械
Building materials
machinery



港口机械
Port machinery



煤矿机械
Coal mining
machinery



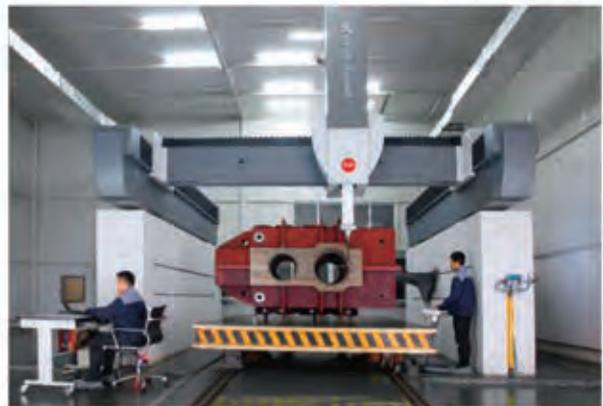
工程机械
Construction
machinery



起重运输
Lifting and
transportation

PROCESSING AND
TESTING EQUIPMENT

加工和检测设备





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