TONGLI

股票代码 301255

减速机选型样本

GEAR UNITS MODEL SELECTION SAMPLE

二〇二四年

（总第十版）

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

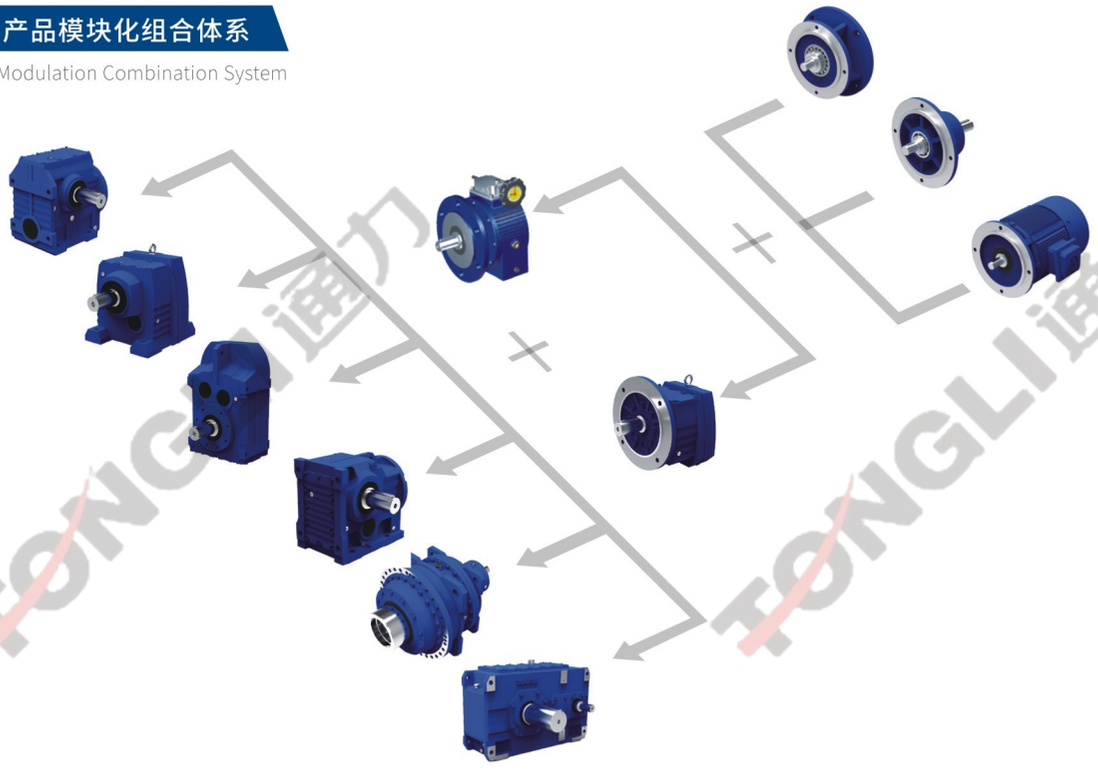
I SJ系列涡轮丝杆升降机
SJ series Worm Screw
elevators

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

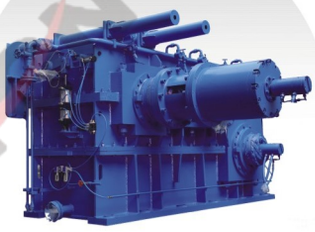
TONGLI Modulation Combination System



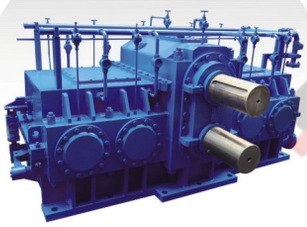
PROFESSIONAL
CUSTOMIZATION

专业定制

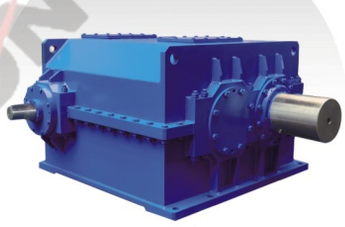
TONGLI通力



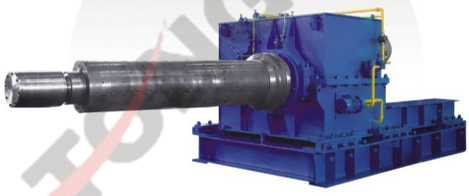
粗轧卷取机用减速机
Uncoiler Specialized Gearbox



粗轧机用主减速机
Rolling Mill Specialized Gearbox

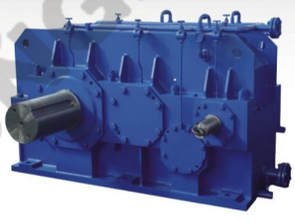


刮板输送机用减速机
Scraper Conveyor Specialized Gearbox

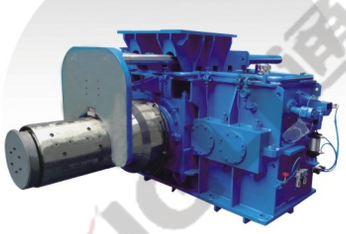


开收卷机用减速机
Uncoiler Specialized Gearbox

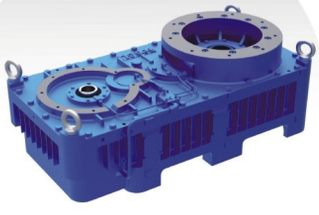
棕榈油专用减速机
Palm Oil Specialized Gearbox



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、国家级绿色工厂、国家专精特新“小巨人”企业，下辖通用减速机、工业齿轮箱二大生产基地。公司于2022年12月27日在深交所创业板上市（股票简称:通力科技，股票代码:301255)，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治金、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、杭州亚运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. established in 2008 and is a National High-tech Enterprise and National Specialized New Little Giant Enterprise which engaged in gearbox R & D, manufacturing, sales and service. At present, TONGLI has two production bases for general reducer and industrial gearbox. On 27th Dec. 2022, TONGLI was floated on GEM of Shenzhen Stock Exchange (Stock for short: TONGLI Tech., Stock code: 301255). After more than 10 years of steady development and technical accumulation, TONGLI has become one of the well-known enterprises in China reducer industry, and in the domestic advanced level in technology, equipment, product performance and other aspects. In recent years, as a drafting unit, TONGLI has participated in the formulation of four national and industry standards for reducer, owns a number of core technology patents and independently developed a number of series of reducer and gearbox. Some products have been listed as national key new products and national torch plan projects. TONGLI's leading products are widely used in Metallurgy, Chemical, Environmental protection, Energy, Pharmaceutical, Hoist, Transportation, Building materials, Grain and oil and other pillar industries of the national economy. At the same time, TONGLI successively provide high performance matching gearbox for CFHI, CNEG, MCC Group, COFCO, Tsingshan Holding, QILU Pharmaceutical, CATL, the CCTV Spring Festival Gala stage, Beijing Winter Olympics and other large domestic industrial enterprises and 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.

通力产品选型信息：

客户：				浙江通力传动科技股份有限公司	
联系人		电话		销售员	
E-MAIL		传真		电 话	
地址				时 间	年 月 日
工作机	设备名称：				
额定功率： kw		工作扭矩： N.m		转速： r/min	
日工作制：（1）≤ 0.5h (2) 0.5–10h (3) > 10h					
环境温度： ℃	海拔高度： m		起动扭矩： N.m	起动频率： 次/h	
冲击载荷：（1）强烈冲击（2）中等冲击（3）轻微冲击（4）没有冲击				冲击载荷频率： 次/h	
安装空间（1）狭小空间 风速 ≤ 0.5m/s （2）大厅或大车间 风速 ≥1.4 m/s（3）室外 风速 ≥ 4 m/s			使用场合: (1) 普通 (2) 腐蚀 (3) 盐雾 (4) 粉尘		
原动机	原动机名称		原动机型号		
原动机描述（如功率、转速、制动等）					
电机型号：			类别：（1）普通电机（2）辊道电机（3）其他电机		
功能特性（可多选）：（1）制动（2）防爆（3）变频调速（4）其他					
参数及性能	电机功率： KW		电机极数	基准频率： Hz	
额定电压： V	额定电流： A		防护等级：	绝缘等级：	
其他： 注：用户自配电机时请提供电动机的联接尺寸图					
减速机要求	要求的产品系列：		安装型式（根据样本选取）		
输出轴方式：（1）单向实心轴（2）双向实心轴（3）平键空心轴（4）锁紧盘空心轴（5）内花键空心轴（6）外花键实心轴					
原动机与减速机的联接方式：（1）直联（无联接法兰）（2）直联（有联接法兰）（3）联轴器（4）皮带轮（5）链轮					
工作机与减速机的联接方式：（1）直联（2）齿轮（3）联轴器（4）皮带轮（5）链轮					
输出轴与输入轴之间的结构形式：（1）平行轴（2）直交轴（3）同轴					
电机接线盒位置（根据样本选取）：(1)Ⅰ(0°) (2)Ⅱ(270°) (3)Ⅲ(180°) (4)Ⅳ(90°) (5)Ⅴ(0°) (6)Ⅵ(270°) (7)Ⅶ(180°) (8)Ⅷ(90°)					
附件及其他要求：					
输入轴、输出轴法兰及锁紧盘方向：					
输入轴旋转方向①：			输出轴旋转方向①：		
输入轴外部径向力及作用点：					
输出轴外部径向力及作用点：					
输入轴外部轴向力及方向：			输出轴外部轴向力及方向：		
减速机的其他特殊要求：					
预选型号：					

①TB、TP..L、TP..K型减速机必须填写，TK系列只需填输出轴旋向，其他可不填。
②本选型信息表适用于TH、TB、TP、TR、TK、TF、TS系列减速机。
注：请在数字下面打 √

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	≥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	M6×12	M8×16	M10×20	M12×20	M16×30	M20×35	M24×40	M30×50	M36×60	M42×70

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	≤100	m6	H7
>100		n6	H7

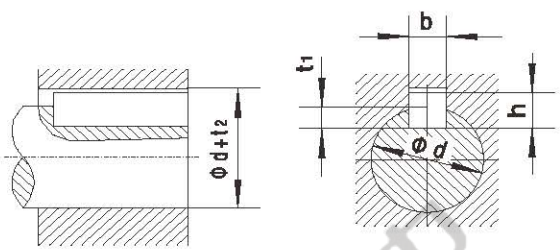
平键和键槽 Parallel key and keyway mm

平键紧固采用无锥度联接.

平键和键槽根据GB/T1095-1979标准确定

Drive type fastening without taper action.

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



直径 Diameter d	宽度 Width b	高度 Height h	轴键槽深度 Depth of keyway in shaft t_1	轮毂键槽深度 Depth of keyway in hub $d+t_2$
>8-10	3	3	1.8	d+1.4
>10-12	4	4	2.5	d+1.8
>12-17	5	5	3	d+2.3
>17-22	6	6	3.5	d+2.8
>22-30	8	7	4	d+3.3
>30-38	10	8	5	d+3.3
>38-44	12	8	5	d+3.3
>44-50	14	9	5.5	d+3.8
>50-58	16	10	6	d+4.3
>58-65	18	11	7	d+4.4
>65-75	20	12	7.5	d+4.9
>75-85	22	14	9	d+5.4
>85-95	25	14	9	d+5.4
>95-110	28	16	10	d+6.4
>110-130	32	18	11	d+7.4
>130-150	36	20	12	d+8.4
>150-170	40	22	13	d+9.4
>170-200	45	25	15	d+10.4
>200-230	50	28	17	d+11.4
>230-260	56	32	20	d+12.4
>260-290	63	32	20	d+12.4
>290-330	70	36	22	d+14.4
>330-380	80	40	25	d+15.4
>380-440	90	45	28	d+17.4
>440-500	100	50	31	d+19.4

注：配合公差仅为推荐值

TF系列实际传动比

TF28	TF38	TF48	TF58	TF68	TF78	TF88	TF98	TF108	TF128	TF158	TF168	TF178
140.74	128.51	190.76	199.70	228.99	281.71	270.68	278.29	254.40	172.17	270.86	183.22	191.32
129.09	117.88	175.38	183.60	195.39	262.93	255.37	254.79	215.37	154.88	220.41	150.35	167.70
109.90	100.36	150.06	157.09	170.85	225.79	228.93	225.10	199.31	126.36	180.48	122.32	149.37
94.76	86.53	130.07	136.16	162.31	198.31	197.20	190.95	178.64	115.24	165.05	97.86	144.48
88.32	80.65	121.57	127.27	142.40	188.40	179.97	175.83	161.28	99.73	143.62	87.03	131.02
77.21	70.50	105.09	110.01	120.79	166.47	159.61	157.16	146.49	88.00	126.74	75.82	128.69
72.37	66.09	89.29	93.47	109.04	142.27	134.16	141.47	129.97	76.00	109.88	67.65	117.67
63.86	58.32	79.72	83.46	95.94	130.42	123.29	128.12	117.94	70.62	97.76	57.66	112.88
56.62	54.54	68.09	73.16	90.59	114.45	109.49	113.61	101.38	64.41	88.01	51.71	101.38
50.19	51.70	65.36	68.38	77.97	108.46	97.89	102.72	92.47	55.74	80.49	47.78	90.83
46.78	47.02	56.49	59.10	66.13	94.93	88.01	98.58	88.49	49.19	70.04	45.98	85.19
40.89	43.83	48.00	50.22	59.70	85.52	76.39	90.77	83.99	42.48	61.81	40.77	79.61
38.33	38.31	42.86	44.84	52.53	75.02	68.40	87.06	74.52	37.57	53.58	35.74	73.39
33.83	35.91	36.61	38.30	49.60	72.29	56.75	81.13	67.62	31.58	47.67	30.47	68.59
29.56	31.69	34.29	35.87	42.23	66.28	50.29	76.04	58.12	25.50	41.09	28.17	63.54
27.18	28.10	28.88	30.22	38.38	58.16	45.22	73.03	50.73	21.55	33.39	25.24	55.86
23.25	23.88	25.72	29.94	33.24	55.12	39.25	66.14	43.03	19.01	28.32	21.54	48.13
20.15	20.57	21.82	28.45	⋆27.41	48.24	35.14	58.65	37.61	16.48	54.23	17.84	40.44
18.84	19.27	19.70	24.96	25.13	43.46	29.16	53.03	31.80	14.67	44.50	14.21	34.84
16.28	17.03	17.33	21.17	22.05	38.12	⋆26.50	44.94	27.57	12.64	36.21	12.30	30.17
13.84	15.81	16.36	19.11	20.90	33.64	⋆23.68	39.26	25.14	10.27	28.97	10.25	25.14
12.35	14.33	13.93	16.81	18.29	29.82	21.32	32.83	21.76	8.86	25.76	8.74	21.43
10.55	12.87	12.66	15.88	16.48	25.47	19.31	34.26	19.20	7.88	22.44		17.85
9.88	11.08	10.97	13.52	14.46	21.43	17.12	30.70	16.58	6.80	20.02		15.38
9.40	10.42	8.96	12.29	12.76	19.70	15.48	27.72	14.67	5.52	17.07		13.22
8.13	8.97	7.88	10.64	11.31	17.49	13.12	25.18	12.33	4.68	14.14		11.41
6.91	8.01	7.44	9.31	9.66	15.64	11.46	22.34	9.96		12.07		9.64
6.17	7.51	6.33	8.19	9.08	14.06	9.58	20.27	9.69				
5.27	6.81	5.76	7.73	8.60	12.21	8.29	17.42	8.37				
4.93	6.11	4.99	6.58	7.53	10.93	7.35	15.21	7.40				
4.16	5.27		5.98	6.78	9.30	6.65	12.90	6.22				
	4.95		5.18	5.95	8.26	5.63	11.28					
	4.26			5.25	7.38	4.92	9.06					
	3.81			4.66	6.64	4.12	8.22					
				3.97	5.76		7.07					
					5.16		6.17					
					4.28		5.23					
							4.57					

注：1、带“⋆”尽量不订货（结构限制）。

2、粗线以下为二级传动，粗线以上为三级传动。

3、TF68输入处联接螺纹孔与垂直夹角同时偏移3度，配伺服电机时请注意。

TF...TR...系列实际传动比

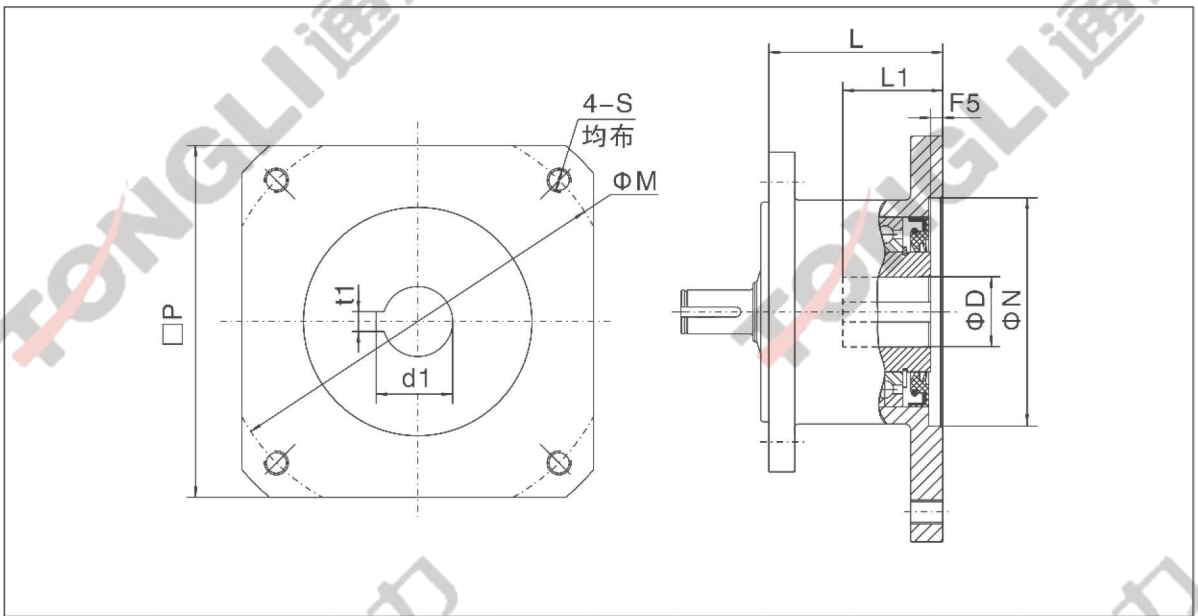
TF38TR18	TF48TR18	TF58TR38	TF68TR38	TF78TR38	TF88TR58	TF98TR58	TF108TR78
261	566	856	1135	2024	4245	6535	11348
230	477	739	970	1729	3721	5646	10073
201	445	666	865	1543	3244	4988	8649
170	389	560	858	1354	2881	4357	7674
168	346	549	738	1196	2575	3928	6650
153	337	508	722	1050	2200	3429	5716
133	304	483	626	907	1930	2923	5225
129	301	453	565	810	1710	2567	4567
119	293	426	527	710	1493	2269	3479
98	285	387	497	607	1272	2176	3038
87	230	382	454	525	1130	1990	2757
	227	330	427	469	992	1740	2370
	216	298	392	411	878	1543	2068
	192	262	375	366	800	1358	1826
	188	255	333	312	692	1182	1597
	177	226	331	273	620	1033	1418
	173	200	298		514	890	1245
	148	194	297		456	789	1087
	146	181	261		340	694	950
	130	166	258		300	611	817
	129	152	238		249	534	736
		134	225			473	640
			200			399	560
			194			376	489
			166			288	436
						247	370
							333
							291
							225

实际传动比
The actual transmission ratio

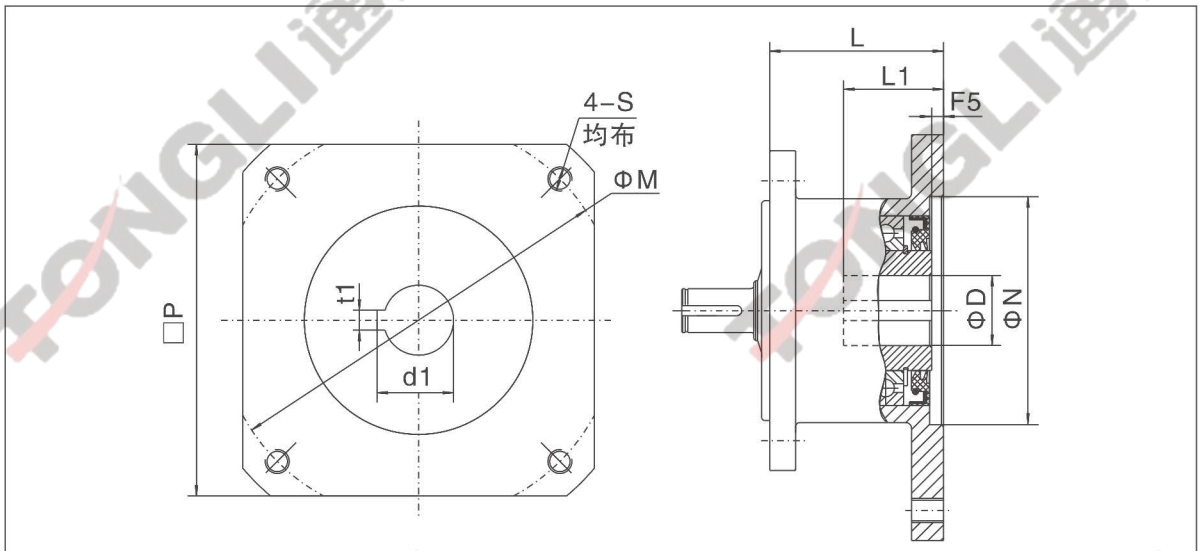
TF...TR...系列实际传动比

TF128TR78	TF128TR88	TF158TR98
16787	487	31837
14839	421	26509
13013	377	23765
11766	313	20471
10271	289	18213
8901	260	16568
7714	225	13927
6768	199	12391
5972	167	10162
5077		9136
4479		8129
3869		7155
3404		6366
2954		5543
2694		4956
2376		4176
2054		3648
1797		3246
1619		2853
1401		2459
1229		2213
1085		1969
937		1717
827		1457
733		1317
653		1198
553		960
499		836
432		784
379		697
		591
		516
		452
		351
		302
		296
		280
		238
		208
		201

伺服电机联接法兰

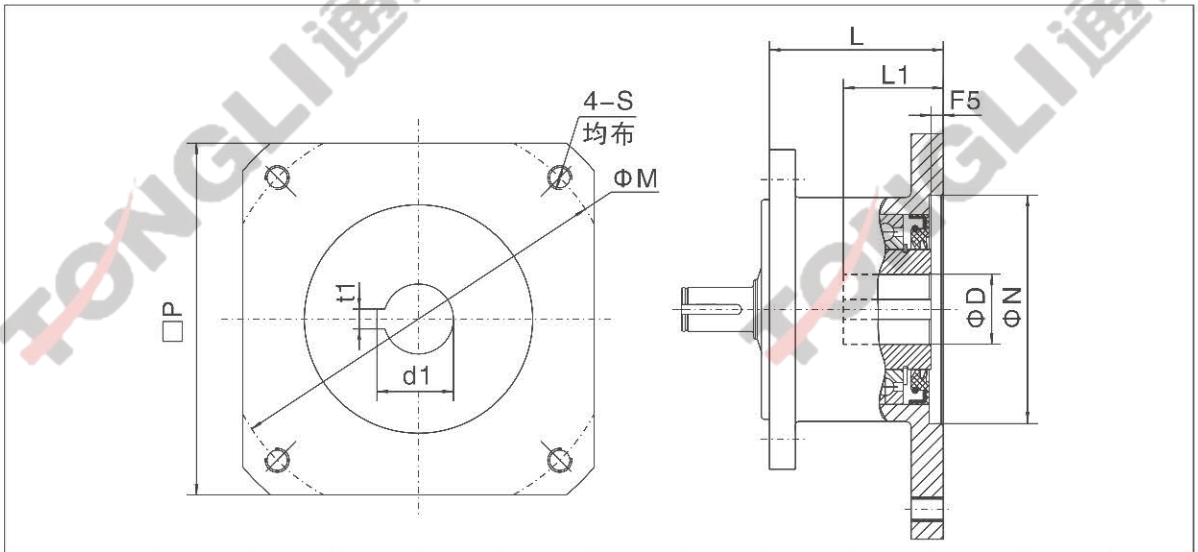


机型	代号		□P	M	N	F5	L	S	D	t1	d1	L1
TR18,28,38 TF38,48 TK38 TS38,48,58	SF71	-1	60	70	50	5	56	M5	14	5	16.3	35
	SF80	-1	80	90	70	4	64	M6	19	6	21.8	45
		-2	90	100	80	5	64	M6	19	6	21.8	45
		-3	96	100	80	4	64	M6	19	6	21.8	45
		-4	110	130	95	4	64	M8	19	6	21.8	45
		-5	130	145	110	8	66	M8	22	8	25.3	55
	SF90	-1	100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

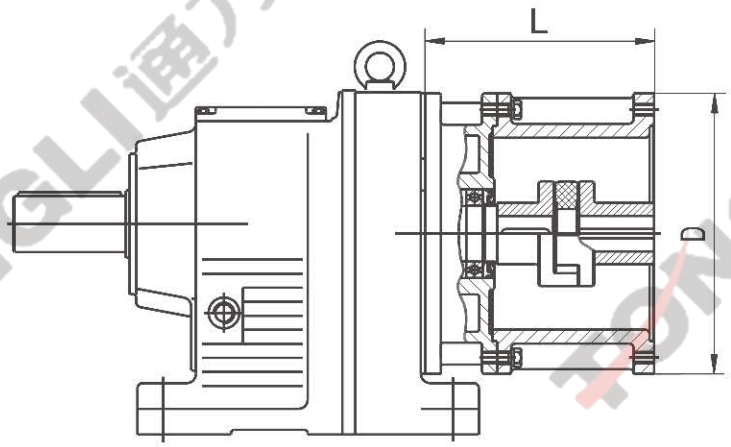


机型	代号		□P	M	N	F5	L	S	D	t1	d1	L1
TR78 TF78 TK78 TS78 TRX78	SF71	-1	60	70	50	5	33	M5	14	5	16.3	35
	SF80	-1	110	130	95	4	66	M8	19	6	21.8	45
		-2	80	90	70	5	67	M6	19	6	21.8	45
	SF90	-1	100	115	95	7	70	M8	22	8	25.3	55
		-2	130	145	110	10	73	M8	22	8	25.3	55
		-3	126	130	110	5	68	M8	24	8	27.3	55
		-4	143	165	130	5	68	M10	24	8	27.3	55
		-5	100	115	95	8	71	M6	24	8	27.3	55
	SF100	-1	150	165	130	5	68	M10	28	8	31.3	65
		-2	130	145	110	8	73	M8	28	8	31.3	65
	SF132	-1	155	165	130	6	73	M10	32	10	35.3	80
		-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
	SF160	-1	180	200	114.3	5	104	M12	42	12	45.3	115
TR88 TF88 TK88 TS88 TRX88	SF80	-1	100	115	95	4	73	M8	19	6	21.8	45
		-2	80	90	70	5	74	M6	19	6	21.8	45
	SF90	-1	130	145	110	6	73	M8	22	8	25.3	55
		-2	100	115	95	9	78	M6	24	8	27.3	55
	SF100	-1	150	165	130	5	74	M10	28	8	31.3	65
		-2	130	145	110	7	76	M8	28	8	31.3	70
	SF132	-1	155	165	130	5	88	M10	32	10	35.3	80
		-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
	SF160	-1	180	200	114.3	5	99	M12	42	12	45.3	115

伺服电机联接法兰



机型	代号		□P	M	N	F5	L	S	D	t1	d1	L1
TR98 TF98 TK98 TS98 TRX98	SF90	-1	130	145	110	7	68	M8	22	8	25.3	55
		-2	100	115	95	9	58	M6	24	8	27.3	55
	SF100	-1	130	145	110	7	56	M8	28	8	31.3	70
	SF132	-1	155	165	130	5	83	M10	28	8	31.3	65
		-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
	SF160	-1	180	200	114.3	5	119	M12	42	12	45.3	115
TR108 TF108 TK108 TRX108	SF100	-1	130	145	110	7	59	M8	28	8	31.3	70
	SF132	-1	190	215	180	5	83	M12	38	10	41.3	80
		-2	180	200	114.3	7	81	M12	35	10	38.3	80
	SF160	-1	180	200	114.3	5	114	M12	42	12	45.3	115
	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
		-2	180	200	114.3	7	79	M12	35	10	38.3	80
	SF160	-1	180	200	114.3	5	93	M12	42	12	45.3	115
TK128 TRX128 TF128 TR148	SF132	-1	180	200	114.3	7	61	M12	35	10	38.3	80
	SF160	-1	180	200	114.3	5	97	M12	42	12	45.3	115
TK158 TK168 TK188 TRX158 TF158 TR168	SF160	-1	180	200	114.3	5	90	M12	42	12	45.3	115



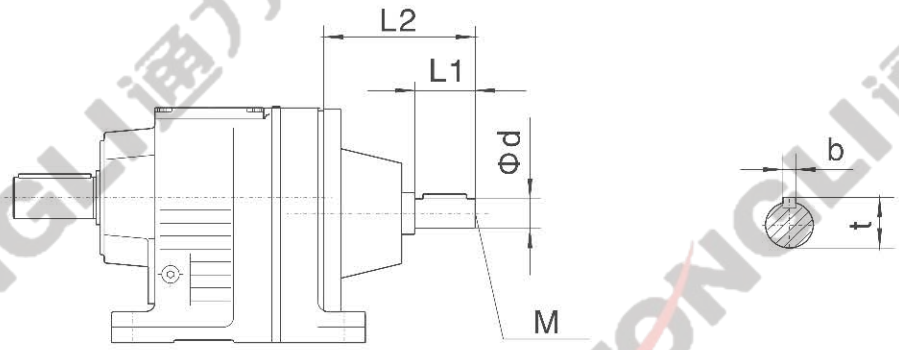
输入配IEC标准接口电机，TR、TRX、TS、TF、TK系列通用

规格	电机功率	D	L
TRX38、TR18、TR28、TR38、TS38、TS48、TS58、TK38、TF38、TF48	0.55~1.5kW	Φ200	168
	2.2~3kW	Φ250	189.5
TRX58、TRX68、TR48、TR58、TR68、TS68、TK48、TK58、TK68、TF58、TF68	0.55~1.5kW	Φ200	178
	2.2~4kW	Φ250	200.5
	5.5~7.5kW	Φ300	250
TRX78、TR78、TS78、TK78、TF78	0.55~1.5kW	Φ200	169.5
	2.2~4kW	Φ250	191.5
	5.5~7.5kW	Φ300	236
	11kW	Φ350	328
TRX88、TR88、TS88、TK88、TF88	0.75~1.5kW	Φ200	177
	2.2~4kW	Φ250	198.5
	5.5~7.5kW	Φ300	251
	11~22kW	Φ350	324
TRX98、TR98、TS98、TK98、TF98	0.75~1.5kW	Φ200	156
	2.2~4kW	Φ250	176.5
	5.5~7.5kW	Φ300	245
	11~22kW	Φ350	342
	30kW	Φ400	342

规格	电机功率	D	L
TRX108、TR108、TR128、TK108、TF108	2.2~4kW	Φ250	181.5
	5.5~7.5kW	Φ300	245
	11~22kW	Φ350	341
	30kW	Φ400	339
	37~45kW	Φ450	411
TR138	5.5~7.5kW	Φ300	240
	11~22kW	Φ350	318
	30kW	Φ400	338
	37~45kW	Φ450	404
	55kW	Φ550	437
TRX128、TR148、TK128、TF128	7.5kW	Φ300	223
	11~22kW	Φ350	322
	30kW	Φ400	327
	37~45kW	Φ450	405
	55~90kW	Φ550	415
TRX158、TR168、TR178、TR188、TK158、TK168、TK188、TF158、TF168、TF178	11~22kW	Φ350	315(348)
	30kW	Φ400	320(353)
	37~45kW	Φ450	410(443)
	55~90kW	Φ550	423(456)

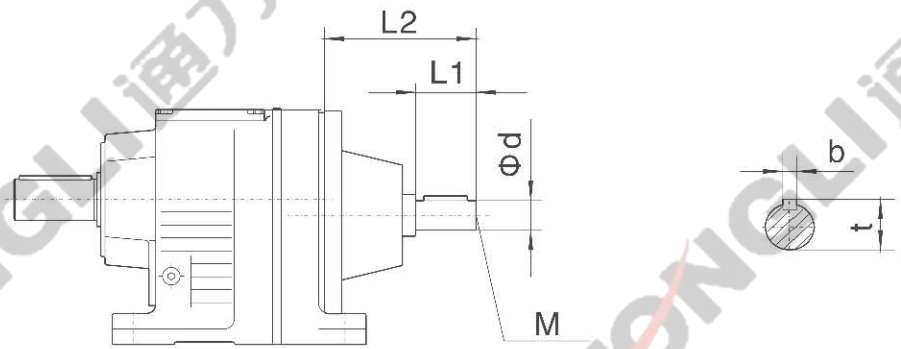
注：TR188、TF178为括号内数据

输入带轴



TR、TRX、TS、TF、TK系列输入带轴通用

规格	输入轴型号	适用功率范围	d	L1	L2	b	t	M
TRX38、TR18、TR28、TR38、TS38、TS48、TS58、TK38、TF38、TF48	AD1	0.12-0.75kW	16k6	40	115	5	18	M5
	AD2	0.12-3kW	19k6	40	115	6	21.5	M6
TRX58、TRX68、TR48、TR58、TR68、TS68、TK48、TK58、TK68、TF58、TF68	AD2	0.18-3kW	19k6	40	120	6	21.5	M6
	AD2A	0.25-4kW	24k6	50	130	8	27	M8
	AD3	0.55-7.5kW	28k6	60	140	8	31	M10
TRX78、TR78、TS78、TK78、TF78	AD2	0.18-3kW	19k6	40	130	6	21.5	M6
	AD2A	0.25-4kW	24k6	50	140	8	27	M8
	AD3	0.55-7.5kW	28k6	60	150	8	31	M10
	AD4	1.1-11kW	38k6	80	170	10	41	M12
TRX88、TR88、TS88、TK88、TF88	AD2	0.55-3kW	19k6	40	160	6	21.5	M6
	AD3	0.55-7.5kW	28k6	60	180	8	31	M10
	AD4	1.1-15kW	38k6	80	200	10	41	M12
	AD5	2.2-22kW	42k6	110	230	12	45	M16
TRX98、TR98、TS98、TK98、TF98	AD3	0.55-7.5kW	28k6	60	200	8	31	M10
	AD4	1.1-15kW	38k6	80	220	10	41	M12
	AD5	2.2-22kW	42k6	110	250	12	45	M16
	AD6	5.5-30kW	48k6	110	250	14	51.5	M16



TR、TRX、TS、TF、TK系列输入带轴通用

规格	输入轴型号	适用功率范围	d	L1	L2	b	t	M
TRX108、TR108、TR128、TK108、TF108	AD3	2.2-7.5kW	28k6	60	220	8	31	M10
	AD4	2.2-15kW	38k6	80	240	10	41	M12
	AD5	2.2-22kW	42k6	110	270	12	45	M16
	AD6	5.5-45kW	48k6	110	270	14	51.5	M16
TR138	AD4	5.5-15kW	38k6	80	277	10	41	M12
	AD5	5.5-22kW	42k6	110	307	12	45	M16
	AD6	5.5-30kW	48k6	110	307	14	51.5	M16
	AD7	5.5-45kW	55k6	110	307	16	59	M20
	AD8	30-55kW	70k6	140	337	20	74.5	M20
TRX128、TR148、TK128、TF128	AD4	7.5-15kW	38k6	80	267	10	41	M12
	AD5	7.5-22kW	42k6	110	297	12	45	M16
	AD6	7.5-30kW	48k6	110	297	14	51.5	M16
	AD7	11-45kW	55k6	110	297	16	59	M20
	AD8	30-90kW	70k6	140	327	20	74.5	M20
TRX158、TR168、TR178、TR188、TK158、TK168、TK188、TF158、TF168、TF178	AD5	11-22kW	42k6	110	344[1)]	12	45	M16
	AD6	11-30kW	48k6	110	344[1)]	14	51.5	M16
	AD7	11-45kW	55k6	110	344[1)]	16	59	M20
	AD8	30-200kW	70k6	140	374[2)]	20	74.5	M20

注:1）表示TR188、TF178时该尺寸为337　　2）表示TR188、TF178时该尺寸为367

性能特点
Performance characteristics

- 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，满足不同的使用工况，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 porfolio 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 signifi-cantly 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_B,即

$$f_1 \times f_2 \times f_3 \leqslant f_B$$

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 sarting times.but the practical condition will be not as perfect as the designed circ-umstance.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 equale to the service factor f_B of selection table,viz

$$f_1 \times f_2 \times f_3 \leqslant f_B$$

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 factroy,but 108`s and above didn`t add lubricating oil.

减速器服务系数

表1 工作机系数 f_1

工作机		日工作小时数			工作机		日工作小时数		
		≤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
	絮凝器	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
	搅集设备	1.0	1.2	1.3		辊缝调节驱动装置	0.9	1.0	-
	纵向、回转组合搅集装置	1.0	1.3	1.5	输送机械	斗式输送机	-	1.2	1.5
	预浓缩器	-	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	斗式运输机	-	1.6	1.6		刮板式输送机	-	1.2	1.5
	倾卸装置	-	1.3	1.5		自动扶梯		1.2	1.4
	Carteypillar行走机构	1.2	1.6	1.8		轨道行走机构	-	1.5	-
	斗轮式挖掘机(用于捡拾)	-	1.7	1.7	变频装置		-	1.8	2.0
	斗轮式挖掘机(用于粗料)	-	2.2	2.2	往复式压缩机		-	1.8	1.9
	切碎机	-	2.2	2.2	起重机械	回转机构 *	1.0	1.4	1.8
	行走机构*		1.4	1.8		俯仰机构	1.0	1.25	1.5
弯板机*		-	1.0	1.0		行走机构	1.5	1.75	2.0
化学工业	挤压机	-	-	1.6		提升机构 *	1.0	1.25	1.5
	调浆机	-	1.8	1.8		转臂式起重机*	1.0	1.25	1.6
	橡胶砑光机	-	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	甜菜绞碎机	-	-	1.2
	搅拌机,用于非均匀介质	1.2	1.4	1.6		抽取机,机械致冷机,蒸煮机	-	-	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		甜菜切碎机	-	-	1.5
	离心机	1.0	1.2	1.3	造纸机械	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	混凝土搅拌器	-	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		管式磨机	-	-	2.0
	连铸机驱动装置	-	1.4	1.4		选扮机	-	1.6	1.6
	可逆式开坯机	-	2.5	2.5		辊压机	-	-	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.

表2 减速器安全系数 f_2

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,减速器失效引起被备、人身事故
f_2	1~1.2	1.2~1.4	1.4~1.6

表3 起动系数 f_3

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

Gear Units Service Factor

Table 1 Factor for driven machine f_1

Driven machines		Effective daily operating period under load in hours			Driven machines		Effective daily operating period under load in hours		
		≤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 apparata	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	1.8	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
	1piston positive-displacement pumps	1.3	1.4	1.8		Goods lifts *	-	1.2	1.5
	>1piston 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
	Carterpillar 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 *	1.0	1.4	1.8
	Traversing gears *		1.4	1.8		Luffing gears	1.0	1.25	1.5
Plate bending machines		-	1.0	1.0		Travelling gears	1.5	1.75	2.0
Chemical industry	Extruders	-	-	1.6		Holsting gears *	1.0	1.25	1.5
	Dough mills	-	1.8	1.8		Derricking jib cranes *	1.0	1.25	1.6
	Rubber calenders	-	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		Sugar beet cutters	-	-	1.5
	Centrifuges	1.0	1.2	1.3	Paper machines	Of all-kind **	-	1.8	2.0
Metal working mills	Plate tilters	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	1.6	Cableways	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	1.6
	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	-	1.6	1.6
	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.

Table 2 Table 2 Safety factor f_2 f_2

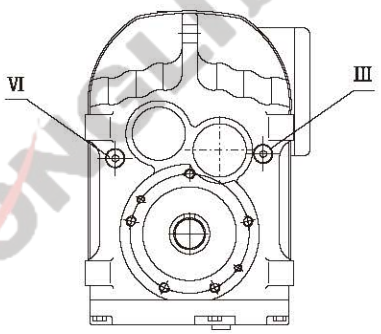
Importance and safety request	Ordinary equipment, malfunction only cause accident of single-machine and easily replaced.	Important equipment, malfunction cause the accident of assembling unit, production-line or whole factory.	Safety request highly, malfunction cause the accident of equipment and personal injury.
f_2	1~1.2	1.2~1.4	1.4~1.6

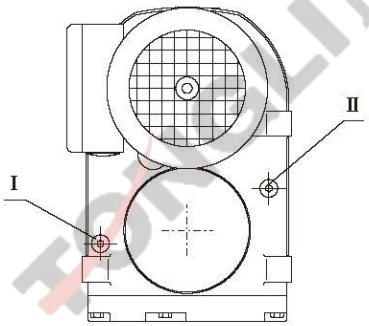
Table 3 Start factor f_3

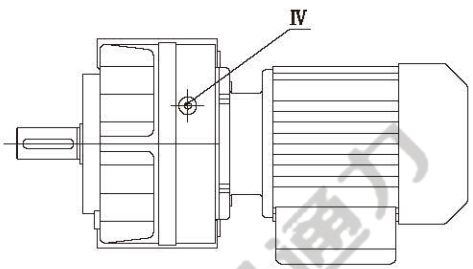
f_3 \ f_1 / Starts per hour	1	1.25-1.75	2-2.75	≥3
≤5	1	1	1	1
6-25	1.2	1.12	1.06	1
26-60	1.3	1.2	1.12	1.06
61-180	1.5	1.3	1.2	1.12
>180	1.7	1.5	1.3	1.2

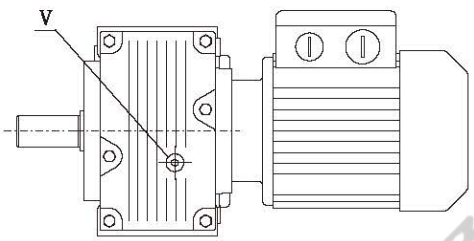
四大系列通气孔、油镜孔（溢油孔）放油孔位置图
Location of four series's Blowhole、oil immersion lens、drain hole

TF..38~TF..178







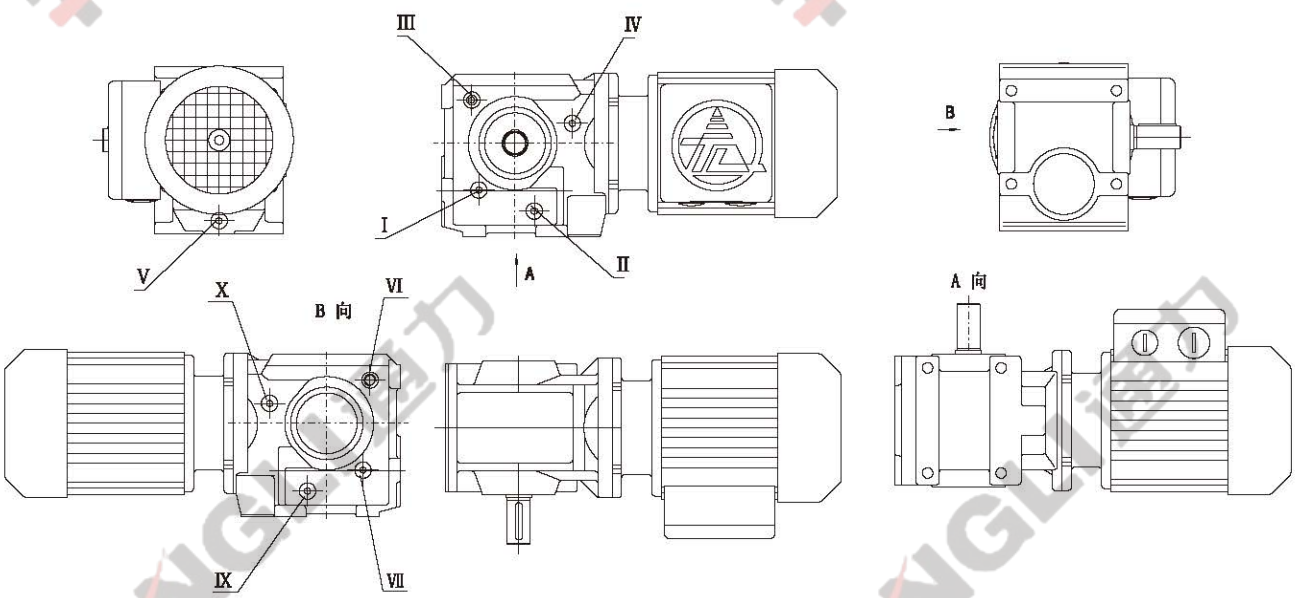


所有M4安装，有条件通气孔钻在直联电机上

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

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

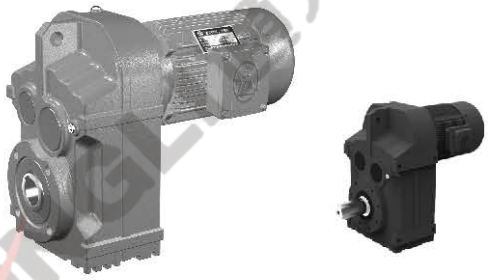
TS38



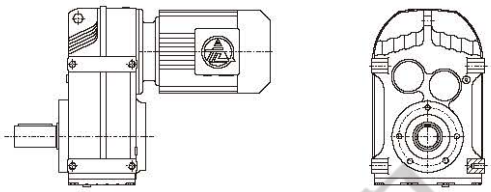
所有M4安装，有条件通气孔钻在直联电机上

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

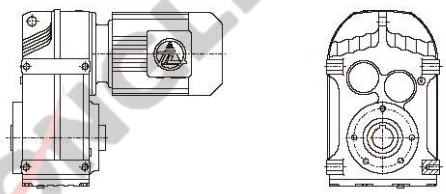
安装方式 / 孔位顺序	M1	M2	M3	M4	M5	M6	
通气孔	Ⅱ	Ⅲ	Ⅴ	Ⅴ	Ⅵ	Ⅲ	
油镜孔	Ⅰ/Ⅵ	Ⅱ/Ⅸ	Ⅰ/Ⅵ	Ⅳ/Ⅹ	Ⅴ	Ⅴ	
放油孔	Ⅴ	Ⅴ	Ⅲ	Ⅲ	Ⅱ	Ⅵ	



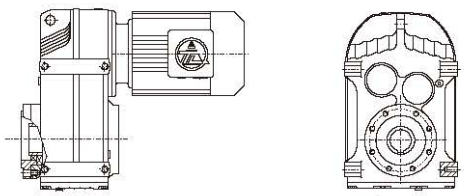
TF系列减速机有以下设计方案：
TF series gear units are available in the following designs:



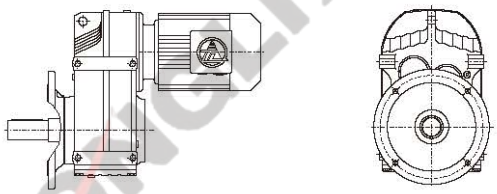
TF ..Y..
底脚轴伸式安装平行轴斜齿轮减速机
Foot-mounted parallel shaft helical gear units with solid shaft



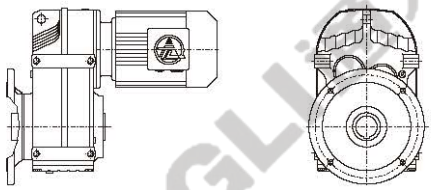
TFA ..Y..
空心轴安装平行轴斜齿轮减速机
Parallel shaft helical gear units with hollow shaft



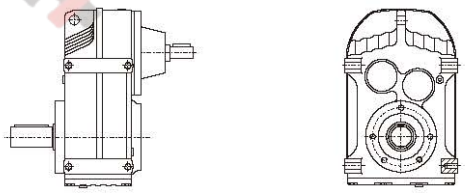
TFA Z..Y..
小法兰空心轴安装平行轴斜齿轮减速机
Short-flange-mounted parallel shaft helical gear units with hollow shaft



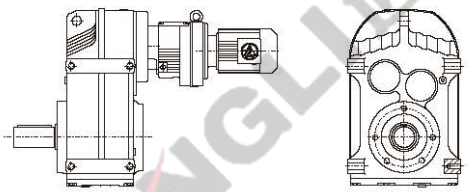
TFF ..Y..
法兰轴伸式安装平行轴斜齿轮减速机
Flange-mounted parallel shaft helical gear units with solid shaft



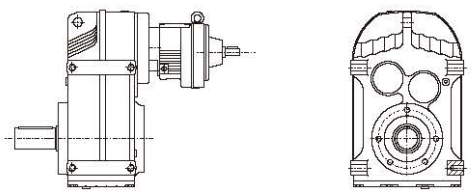
TFA F..Y..
法兰空心轴安装平行轴斜齿轮减速机
Flange-mounted parallel shaft helical gear units with hollow shaft



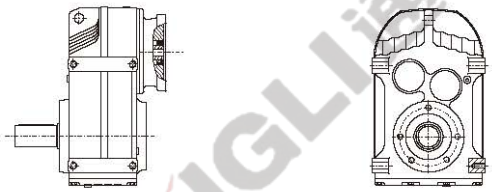
TF（TFF、TFA、TFAF、TFAZ）S...
轴输入的平行轴斜齿轮减速机
Shaft input parallel shaft helical gear units



TF（TFF、TFA、TFAF、TFAZ）...TR...Y...
组合式平行轴斜齿轮减速机
Combinatorial parallel shaft helical gear units



TF（TFF、TFA、TFAF、TFAZ）...TRS...
轴输入的组合式平行轴斜齿轮减速机
Shaft input combinatorial parallel shaft helical gear units



TF（TFF、TFA、TFAF、TFAZ）...Y...
电机用户自配或配特殊电机时需加联接法兰
When equipping the user's motor or the special one,the flange is required to be connected

型号与标记 / Type Designations

TF 38-Y1.1-4P-32.4-M1-I-E-G-78-CW

减速机类型	Gear units type
结构形式	Structure
规格	Size
电机代号	Motor code
电机功率、极数	Motor power、pole
传动比	Ratio
安装形式	Mounting position
电机接线盒位置	Position of the motor terminal box
锁紧盘方向	The locking disk direction
联接法兰	Coupling flange
附件代号	Add-on piece code
输出轴旋转方向	Rotate direction of output shaft

减速机类型： 平行轴斜齿轮减速机

Gear units type: Parallel shaft helical gear units

结构形式： 普通轴伸式（省略）

轴装式	A
轴伸法兰式	F
轴装法兰式	AF
轴装小法兰式	AZ
普通轴伸式，轴输入	S
普通轴装式，轴输入	AS
轴伸法兰式，轴输入	FS
轴装法兰式，轴输入	AFS
渐开线花键空心轴（DIN 标）V，(国标) V.G	
带锁紧盘式	H..(H, HF, HZ, HT)

Structure:

Foot-mounted solid shaft output	(-)
Hollow shaft output	A
Flange-mounted solid shaft output	F
Flange-mounted hollow shaft output	AF
Short-flange-mounted hollow shaft output	AZ
Foot-mounted solid shaft output,shaft input	S
Hollow shaft output,shaft input	AS
Flange-mounted solid shaft output,shaft input	FS
Flange-mounted hollow shaft output,shaft input	AFS
(Involute spline hollow shaft(DIN)V.(National standard)V.G)	
Hollow shaft output with shrink disk	H..(H, HF, HZ, HT)

规格： (见选型参数表)

Size: (see selection table)

电机代号：

普通(更新)	Y(Y2)
防爆	B
直流	Z
制动	E
多速	D
变频	V
冶金起重	YZ/YZR
变频制动	VE
辊道	YG
自配电机	ZP

Motor code:

Ordinary(renew)	Y(Y2)
Flame-proof	B
Direct current	Z
Brake	E
Multi-speed	D
Variable frequency	V
Hoisting in metallurgy	YZ/YZR
Variable frequency and brake	VE
Roller tables	YG
Cabin electric machinery	ZP

电机功率、极数： (见选型参数表)

Motor power、pole： (see selection table)

传动比： (见选型参数表)

Ratio: (see selection table)

安装形式：
M1、M2、M3、M4、M5、M6 (见第TF-03页)

Mounting position:
M1、M2、M3、M4、M5、M6(see page TF-03)

电机接线盒位置:
Ⅰ、Ⅱ、Ⅲ、Ⅳ、Ⅴ、Ⅵ、Ⅶ、Ⅷ(见第TF-03页)

Position of the motor terminal box:
Ⅰ、Ⅱ、Ⅲ、Ⅳ、Ⅴ、Ⅵ、Ⅶ、Ⅷ（see page TF-03)

锁紧盘方向： 与电机同侧为E，相反为F

联接法兰：

配直联电机	省略
配标准电机	G/GS(联接法兰双密封)
输入带轴	AD..

The locking disk direction: Motor with ipsilateral E, instead of F
Coupling flange: With standard motor, motor straight ellipsis

附件代号：

输出保护罩	90
补偿油箱	87
逆止器	78
电机支座	70

Add-on piece code:

Protective cover	90
Compensation tank	87
Backstop	78
Motor bell housing	70

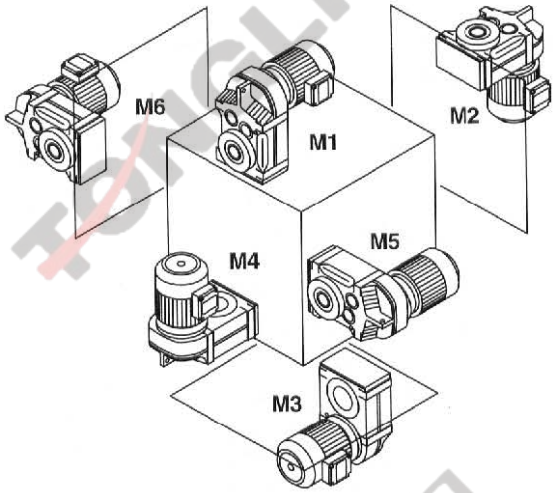
输出轴旋转方向（面对输出轴方向看，与输入反向）：
顺时针旋转CW,逆时针旋转CCW
不带逆止器，可省略

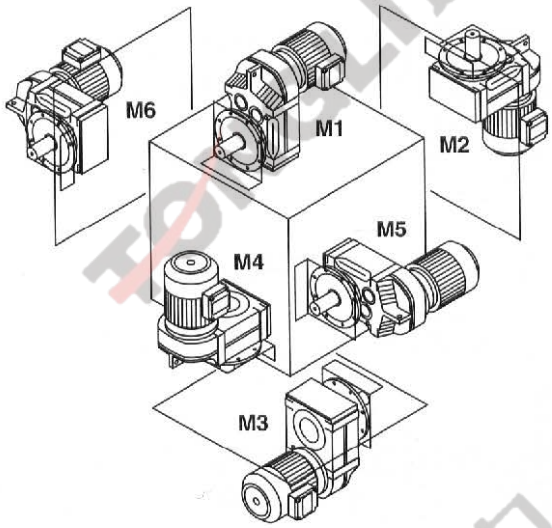
Rotate direction of output shaft(viewing on output shaft):

Clockwise	CW
Counter clockwise	CCW

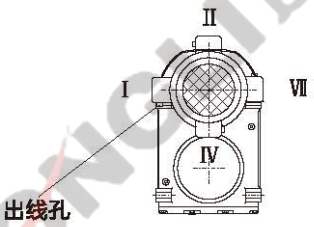
TF
03

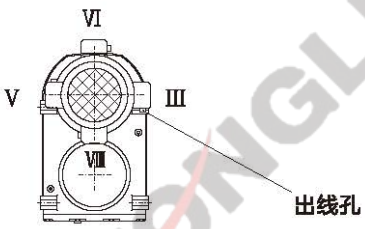
安装形式：
Mounting position：





电机接线盒位置：(M1安装时,从电机尾部看)
Position of the motor terminal box





输入功率及最大转矩*
Input power rating and maximum torque

规 格 Size	28	38	48	58	68	78	88	98	108	128	158	168	178
结构形式 Structure	TF TFA TFF TFAF TFAZ												
输入功率 Input power rating (kW)	0.12~1.5	0.18~3	0.18~3	0.18~5.5	0.18~5.5	0.37~11	0.75~22	1.1~30	2.2~45	7.5~90	11~200	11~200	11~200
传动比 Ratio	4.16~ 140.74	3.81~ 128.51	4.99~ 190.76	5.18~ 199.70	3.97~ 228.99	4.28~ 281.71	4.12~ 270.68	4.57~ 278.29	6.22~ 254.40	4.68~ 172.17	12.07~ 270.86	8.74~ 183.22	9.64~ 191.32
最大转矩(N.m) Maximum torque	130	200	400	600	820	1500	3000	4300	7840	12000	18000	32000	50000

减速机重量
Gear unit weight

规 格 Size	28	38	48	58	68	78	88	98	108	128	158	168	178
重量(kg) Weight	8	13	21	36	37	68	115	200	271	440	715	1050	1530

所注重量为平均值，仅供参考

*) 最大转矩系指该规格不同传动比对应的最大转矩中的最大值.

The weights are mean values,only for reference.

*) Maximum torque means the biggest one of the maximum torque related to the different ratio for the specified size.

润滑油量表
Lubrication table

TF...:

规格	润滑油量（升） Fill quantity in liters					
	M1	M2	M3	M4	M5	M6
TF38	1.1	1.4	1.3	1.5	1.2	1.2
TF48	1.8	1.8	1.8	2	1.9	1.9
TF58	2.7	3	2.6	2.8	2.4	2.4
TF68	3.1	3.2	3	3.3	3	3
TF78	6.2	6.4	6.4	7.6	6.4	6.4
TF88	11.6	16	13.6	14.4	12.8	12.8
TF98	21.2	22.1	23.2	22.3	22.4	22.4
TF108	23.2	27.6	27.2	30.4	25.6	25.6
TF128	39.2	44	39.2	51.2	44.8	44.8
TF158	74	117	84	105	86	84

TFF...:

规格	润滑油量（升） Fill quantity in liters					
	M1	M2	M3	M4	M5	M6
TFF38	1.1	1.4	1.3	1.6	1.2	1.2
TFF48	1.8	1.8	1.8	2	1.9	1.9
TFF58	2.7	3.1	2.6	3	2.4	2.4
TFF68	3.1	3.2	3	3.3	3	3
TFF78	6.2	6.4	6.4	7.6	6.4	6.4
TFF88	11.6	16.2	13.6	14.4	12.8	12.8
TFF98	21.2	22.1	23.2	22.6	22.8	22.9
TFF108	23.2	27.6	27.2	31.4	26.1	26.6
TFF128	39.2	45	39.3	53.2	44.8	46.8
TFF158	77	118	85	106	87	85

TFA...、TFAF...、TFAZ...:

规格	润滑油量（升） Fill quantity in liters					
	M1	M2	M3	M4	M5	M6
TF..38	1.1	1.4	1.3	1.5	1.2	1.2
TF..48	1.8	1.8	1.8	2	1.9	1.9
TF..58	2.7	3.1	2.6	2.9	2.4	2.4
TF..68	3.1	3.2	3	3.3	3	3
TF..78	6.2	6.4	6.4	7.6	6.4	6.4
TF..88	11.6	16	13.6	14.4	12.8	12.8
TF..98	21.2	22.1	23.2	22.1	22.4	22.4
TF..108	23.2	27.6	27.2	30.4	25.6	25.6
TF..128	39.2	44	39.3	51.2	44.8	44.8
TF..158	74	117	84	105	86	84

注：TF168、TF178 润滑油量请咨询通力公司

Note：TF168、TF178 quantity please consult us

选型参数表
Selection Table

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
0.18kW					
0.11	14254	13013	0.79		
0.12	12888	11766	0.88	TFA 128TR78	4
0.14	11251	10271	1.01	TFAF128TR78	4
0.16	9750	8901	1.16	TF 128TR78	4
0.18	8450	7714	1.34	TFF 128TR78	4
0.21	7414	6768	1.53		
0.16	9474	8649	0.77		
0.18	8406	7674	0.86		
0.21	7284	6650	1.00		
0.24	6261	5716	1.16	TFA 108TR78	4
0.27	5723	5225	1.27	TFAF108TR78	4
0.30	5003	4567	1.45	TF 108TR78	4
0.40	3889	3479	1.87	TFF 108TR78	4
0.46	3396	3038	2.14		
0.50	3082	2757	2.36		
0.59	2649	2370	2.75		
0.67	2312	2068	3.15		
0.32	4773	4357	0.85		
0.35	4391	3928	0.93		
0.41	3756	3429	1.08		
0.48	3267	2923	1.25	TFA 98TR58	4
0.54	2869	2567	1.42	TFAF98TR58	4
0.61	2536	2269	1.61	TF 98TR58	4
0.64	2432	2176	1.67	TFF 98TR58	4
0.70	2224	1990	1.83		
0.80	1945	1740	2.10		
0.90	1725	1543	2.36		
1.0	1518	1358	2.69		
1.2	1321	1182	3.09		
0.48	3220	2881	0.88		
0.54	2878	2575	0.99		
0.63	2459	2200	1.15		
0.72	2157	1930	1.32	TFA 88TR58	4
0.81	1911	1710	1.49	TFAF88TR58	4
0.93	1669	1493	1.70	TF 88TR58	4
1.1	1422	1272	2.00	TFF 88TR58	4
1.2	1263	1130	2.25		
1.4	1109	992	2.56		
1.6	981	878	2.90		
1.7	894	800	3.18		
0.90	1725	1543	0.82		
1.0	1513	1354	0.94		
1.2	1337	1196	1.06	TFA 78TR38	4
1.3	1174	1050	1.21	TFAF78TR38	4
1.5	1014	907	1.40	TF 78TR38	4
1.7	905	810	1.57	TFF 78TR38	4
2.0	794	710	1.79		
2.3	678	607	2.10		
1.6	959	858	0.81		
1.9	825	738	0.94		
1.9	807	722	0.96		
2.2	700	626	1.11		
2.5	632	565	1.23		
2.6	589	527	1.32		
2.8	556	497	1.40		
3.1	518	454	1.50	TFA 68TR38	4
3.3	477	427	1.63	TFAF68TR38	4
3.5	447	392	1.74	TF 68TR38	4
3.7	419	375	1.85	TFF 68TR38	4
4.2	380	333	2.05		
4.2	370	331	2.10		
4.7	340	298	2.29		
4.7	332	297	2.34		
5.3	298	261	2.61		
5.4	288	258	2.70		
5.8	271	238	2.87		
6.2	251	225	3.10		
7.0	228	200	3.41		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
0.18kW					
2.5	626	560	0.91		
2.5	614	549	0.92		
2.7	568	508	1.00		
2.9	540	483	1.05		
3.1	506	453	1.12		
3.3	486	426	1.17	TFA 58TR38	4
3.6	433	387	1.31	TFAF58TR38	4
3.6	436	382	1.30	TF 58TR38	4
4.2	376	330	1.51	TFF 58TR38	4
4.7	340	298	1.67		
5.3	299	262	1.90		
5.5	285	255	2.00		
6.2	258	226	2.20		
7.0	228	200	2.50		
4.1	377	337	1.00		
4.6	347	304	1.09		
4.6	336	301	1.13		
4.7	328	293	1.15		
4.9	319	285	1.19	TFA 48TR18	4
6.0	262	230	1.45	TFAF48TR18	4
6.1	254	227	1.49	TF 48TR18	4
6.4	246	216	1.54	TFF 48TR18	4
7.2	215	192	1.76		
7.4	214	188	1.77		
7.9	202	177	1.88		
8.2	194	170	0.97		
8.3	188	168	1.01	TFA 38TR18	4
9.1	175	153	1.08	TFAF38TR18	4
10	152	133	1.25	TF 38TR18	4
11	147	129	1.29	TFF 38TR18	4
3.0	535	281.71	2.66	TFA 78	6
3.2	500	262.93	2.85	TFAF78	6
3.8	429	225.79	3.32	TF 78	6
				TFF 78	6
3.7	435	228.99	1.79	TFA 68	6
4.4	371	195.39	2.09	TFAF68	6
5.0	325	170.85	2.39	TF 68	6
				TFF 68	6
6.1	266	228.99	2.92	TFA 68	4
7.1	227	195.39	3.43	TFAF68	4
8.1	199	170.85	3.91	TF 68	4
				TFF 68	4
4.3	380	199.70	1.50		
4.6	349	183.60	1.63	TFA 58	6
5.4	299	157.09	1.90	TFAF58	6
6.2	259	136.16	2.20	TF 58	6
6.7	242	127.27	2.35	TFF 58	6
7.7	209	110.01	2.72		
7.0	232	199.70	2.45	TFA 58	4
7.6	213	183.60	2.67	TFAF58	4
8.8	183	157.09	3.11	TF 58	4
10	158	136.16	3.60	TFF 58	4
11	148	127.27	3.85		
4.5	370	190.76	1.02		
4.8	333	175.38	1.14	TFA 48	6
5.7	291	150.06	1.30	TFAF48	6
6.5	247	130.07	1.53	TF 48	6
7.0	231	121.57	1.64	TFF 48	6
7.3	226	190.76	1.68	TFA 48	4
7.9	204	175.38	1.86	TFAF48	4
9.3	178	150.06	2.13	TF 48	4
11	151	130.07	2.51	TFF 48	4
11	141	121.57	2.69		

选型参数表
Selection Table

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type	极数 Pole p
0.18kW					
7.2	224	117.88	0.84	TFA 38	6
8.5	191	100.36	0.99	TFAF38	6
9.8	164	86.53	1.15	TF 38	6
11	153	80.65	1.24	TFF 38	6
12	134	70.50	1.41		
11	149	128.51	1.27		
12	137	117.88	1.38		
14	117	100.36	1.62		
16	101	86.53	1.88		
17	94	80.65	2.02		
20	82	70.50	2.31		
21	77	66.09	2.46		
24	68	58.32	2.79		
25	63	54.54	3.01		
27	60	51.70	3.16		
30	55	47.02	3.45		
32	51	43.83	3.72		
36	45	38.31	4.22		
39	42	35.91	4.52	TFA 38	4
44	37	31.69	5.13	TFAF38	4
49	33	28.10	5.75	TF 38	4
58	28	23.88	6.78	TFF 38	4
68	24	20.57	7.91		
72	23	19.27	8.26		
82	20	17.03	9.50		
88	19	15.81	10.00		
97	17	14.33	11.17		
108	15	12.87	12.66		
125	13	11.08	13.88		
133	12	10.42	14.64		
155	11	8.97	15.11		
185	9	7.51	15.30		
204	8	6.81	16.62		
227	7	6.11	18.32		
264	6	5.27	19.79		
281	6	4.95	19.00		
326	5	4.26	20.90		
0.18kW					
13	128	109.90	0.96		
15	110	94.76	1.12		
16	103	88.32	1.19		
18	90	77.21	1.37		
19	84	72.37	1.47		
22	74	63.86	1.66		
25	66	56.62	1.87		
28	58	50.19	2.12		
30	54	46.78	2.28		
34	48	40.89	2.57	TFA 28	4
36	45	38.33	2.74	TFAF28	4
41	39	33.83	3.16	TF 28	4
47	35	29.56	3.52	TFF 28	4
51	32	27.18	3.85		
60	28	23.25	4.41		
69	24	20.15	5.14		
74	22	18.84	5.61		
85	19	16.28	6.50		
100	16	13.84	7.71		
113	15	12.35	8.23		
132	13	10.55	9.50		
141	12	9.88	10.29		
148	11	9.40	11.22		
171	10	8.13	11.68		
201	8	6.91	13.53		
225	7	6.17	14.79		
264	6	5.27	15.83		
282	6	4.93	15.20		
334	5	4.16	16.53		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type	极数 Pole p
0.25kW					
0.16	13542	8901	0.84		
0.18	11736	7714	0.97	TFA 128TR78	4
0.21	10297	6768	1.10	TFAF128TR78	4
0.23	9086	5972	1.25	TF 128TR78	4
0.27	7724	5077	1.47	TFF 128TR78	4
0.31	6814	4479	1.67		
0.24	8696	5716	0.83		
0.27	7949	5225	0.91		
0.30	6948	4567	1.05		
0.40	5401	3479	1.35	TFA 108TR78	4
0.46	4716	3038	1.54	TFAF108TR78	4
0.50	4280	2757	1.70	TF 108TR78	4
0.59	3679	2370	1.98	TFF 108TR78	4
0.67	3210	2068	2.27		
0.87	2479	1597	2.94		
0.98	2201	1418	3.31		
0.48	4538	2923	0.90		
0.54	3985	2567	1.02		
0.61	3522	2269	1.15		
0.64	3378	2176	1.20	TFA 98TR58	4
0.70	3089	1990	1.32	TFAF98TR58	4
0.80	2701	1740	1.51	TF 98TR58	4
0.90	2395	1543	1.70	TFF 98TR58	4
1.0	2108	1358	1.93		
1.2	1835	1182	2.22		
1.3	1604	1033	2.54		
0.72	2996	1930	0.95		
0.81	2655	1710	1.07		
0.93	2318	1493	1.22	TFA 88TR58	4
1.1	1975	1272	1.44	TFAF88TR58	4
1.2	1754	1130	1.62	TF 88TR58	4
1.4	1540	992	1.85	TFF 88TR58	4
1.6	1363	878	2.09		
1.7	1242	800	2.29		
2.0	1074	692	2.65		
1.3	1630	1050	0.87		
1.5	1408	907	1.01		
1.7	1257	810	1.13	TFA 78TR38	4
2.0	1102	710	1.29	TFAF78TR38	4
2.3	942	607	1.51	TF 78TR38	4
2.6	815	525	1.74	TFF 78TR38	4
3.0	728	469	1.95		
3.4	638	411	2.23		
2.2	972	626	0.80		
2.5	877	565	0.88		
2.6	818	527	0.95		
2.8	772	497	1.00		
3.1	719	454	1.08		
3.3	663	427	1.17		
3.5	621	392	1.25	TFA 68TR38	4
3.7	582	375	1.33	TFAF68TR38	4
4.2	528	333	1.47	TF 68TR38	4
4.2	514	331	1.51	TFF 68TR38	4
4.7	472	298	1.65		
4.7	461	297	1.68		
5.3	413	261	1.88		
5.4	401	258	1.94		
5.8	377	238	2.06		
3.6	601	387	0.94		
3.6	605	382	0.94		
4.2	523	330	1.08		
4.7	472	298	1.20		
5.3	415	262	1.37	TFA 58TR38	4
5.5	396	255	1.43	TFAF58TR38	4
6.2	358	226	1.59	TF 58TR38	4
7.0	317	200	1.79	TFF 58TR38	4
7.2	301	194	1.89		
7.7	281	181	2.02		
8.4	263	166	2.16		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type	极数 Pole p
0.25kW					
6.1	352	227	1.07		
6.4	342	216	1.11		
7.2	298	192	1.27	TFA 48TR18	4
7.4	298	188	1.27	TFAF48TR18	4
7.9	280	177	1.35	TF 48TR18	4
8.0	269	173	1.41	TFF 48TR18	4
9.4	234	148	1.62		
9.5	227	146	1.67		
11	206	130	1.84		
10	211	133	0.90		
11	204	129	0.93	TFA 38TR18	4
12	189	119	1.00	TFAF38TR18	4
14	155	98	1.22	TF 38TR18	4
16	138	87	1.37	TFF 38TR18	4
3.0	744	281.71	1.91		
3.2	694	262.93	2.05	TFA 78	6
3.8	596	225.79	2.39	TFAF78	6
4.3	524	198.31	2.71	TF 78	6
4.5	497	188.40	2.86	TFF 78	6
3.7	605	228.99	1.28		
4.4	516	195.39	1.50	TFA 68	6
5.0	451	170.85	1.72	TFAF68	6
5.2	429	162.31	1.81	TF 68	6
6.0	376	142.40	2.07	TFF 68	6
6.1	370	228.99	2.10		
7.1	315	195.39	2.47	TFA 68	4
8.1	276	170.85	2.82	TFAF68	4
8.6	262	162.31	2.97	TF 68	4
9.8	230	142.40	3.38	TFF 68	4
4.3	527	199.70	1.08		
4.6	485	183.60	1.17	TFA 58	6
5.4	415	157.09	1.37	TFAF58	6
6.2	359	136.16	1.58	TF 58	6
6.7	336	127.27	1.69	TFF 58	6
7.7	290	110.01	1.96		
7.0	322	199.70	1.77		
7.6	296	183.60	1.92	TFA 58	4
8.8	254	157.09	2.24	TFAF58	4
10	220	136.16	2.59	TF 58	4
11	205	127.27	2.78	TFF 58	4
13	178	110.01	3.20		
5.7	405	150.06	0.93	TFA 48	6
6.5	343	130.07	1.10	TFAF48	6
7.0	321	121.57	1.18	TF 48	6
8.1	283	105.09	1.34	TFF 48	6
7.3	315	190.76	1.20		
7.9	283	175.38	1.34	TFA 48	4
9.3	247	150.06	1.53	TFAF48	4
11	210	130.07	1.80	TF 48	4
11	196	121.57	1.93	TFF 48	4
13	173	105.09	2.19		
16	144	89.29	2.63		
11	207	128.51	0.91		
12	190	117.88	1.00		
14	162	100.36	1.17		
16	140	86.53	1.35		
17	130	80.65	1.46	TFA 38	4
20	114	70.50	1.66	TFAF38	4
21	107	66.09	1.77	TF 38	4
24	94	58.32	2.02	TFF 38	4
25	88	54.54	2.15		
27	83	51.70	2.28		
30	76	47.02	2.50		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type	极数 Pole p
0.25kW					
32	71	43.83	2.67		
36	62	38.31	3.06		
39	58	35.91	3.27		
44	51	31.69	3.72		
49	45	28.10	4.22		
58	39	23.88	4.87		
68	34	20.57	5.58		
72	32	19.27	5.93		
82	28	17.03	6.78	TFA 38	4
88	26	15.81	7.30	TFAF38	4
97	24	14.33	7.91	TF 38	4
108	21	12.87	9.04	TFF 38	4
125	18	11.08	10.02		
133	17	10.42	10.33		
155	15	8.97	11.08		
185	12	7.51	11.47		
204	11	6.81	12.09		
227	10	6.11	12.82		
264	9	5.27	13.19		
281	8	4.95	14.25		
326	7	4.26	14.92		
18	125	77.21	0.98		
19	117	72.37	1.05		
22	103	63.86	1.19		
25	91	56.62	1.35		
28	81	50.19	1.52		
30	76	46.78	1.62		
34	66	40.89	1.87		
36	62	38.33	1.99		
41	55	33.83	2.24		
47	49	29.56	2.52		
51	45	27.18	2.74		
60	38	23.25	3.25	TFA 28	4
69	33	20.15	3.74	TFAF28	4
74	31	18.84	3.98	TF 28	4
85	27	16.28	4.57	TFF 28	4
100	23	13.84	5.36		
113	20	12.35	6.17		
132	17	10.55	7.26		
141	16	9.88	7.71		
148	15	9.40	8.23		
171	13	8.13	8.98		
201	11	6.91	9.84		
225	10	6.17	10.35		
264	9	5.27	10.55		
282	8	4.93	11.40		
334	7	4.16	11.80		
0.37kW					
0.23	13447	5972	0.84		
0.27	11432	5077	0.99	TFA 128TR78	4
0.31	10085	4479	1.13	TFAF128TR78	4
0.36	8712	3869	1.30	TF 128TR78	4
0.41	7665	3404	1.48	TFF 128TR78	4
0.47	6787	2954	1.67		
0.46	6980	3038	1.04		
0.50	6334	2757	1.15	TFA 108TR78	4
0.59	5445	2370	1.33	TFAF108TR78	4
0.67	4751	2068	1.53	TF 108TR78	4
0.87	3669	1597	1.98	TFF 108TR78	4
0.61	5213	2269	0.78		
0.64	5000	2176	0.81		
0.70	4572	1990	0.89	TFA 98TR58	4
0.80	3998	1740	1.02	TFAF98TR58	4
0.90	3545	1543	1.15	TF 98TR58	4
1.0	3120	1358	1.30	TFF 98TR58	4
1.2	2716	1182	1.50		
1.3	2373	1033	1.72		
1.6	2045	890	1.99		

选型参数表
Selection Table

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type	极数 Pole p
0.37kW					
1.1	2923	1272	0.97		
1.2	2596	1130	1.09		
1.4	2279	992	1.25	TFA 88TR58	4
1.6	2017	878	1.41	TFAF88TR58	4
1.7	1838	800	1.55	TF 88TR58	4
2.0	1590	692	1.79	TFF 88TR58	4
2.2	1425	620	2.00		
2.7	1181	514	2.41		
3.0	1048	456	2.71		
1.7	1861	810	0.76		
2.0	1631	710	0.87		
2.3	1395	607	1.02	TFA 78TR38	4
2.6	1206	525	1.18	TFAF78TR38	4
3.0	1078	469	1.32	TF 78TR38	4
3.4	944	411	1.50	TFF 78TR38	4
3.8	841	366	1.69		
4.5	717	312	1.98		
3.3	981	427	0.79		
3.5	919	392	0.84		
3.7	862	375	0.90		
4.2	781	333	0.99	TFA 68TR38	4
4.2	761	331	1.02	TFAF68TR38	4
4.7	699	298	1.11	TF 68TR38	4
4.7	682	297	1.14	TFF 68TR38	4
5.3	612	261	1.27		
5.4	593	258	1.31		
5.8	558	238	1.39		
6.2	517	225	1.50		
5.3	614	262	0.92		
5.5	586	255	0.97		
6.2	530	226	1.07	TFA 58TR38	4
7.0	469	200	1.21	TFAF58TR38	4
7.2	446	194	1.27	TF 58TR38	4
7.7	416	181	1.37	TFF 58TR38	4
8.4	389	166	1.46		
9.1	356	152	1.60		
10	314	134	1.81		
8.0	397	173	0.95		
9.4	347	148	1.09	TFA 48TR18	4
9.5	335	146	1.13	TFAF48TR18	4
11	305	130	1.24	TF 48TR18	4
11	296	129	1.28	TFF 48TR18	4
2.5	1342	270.68	2.12	TFA 88	8
2.6	1266	255.37	2.25	TFAF88	8
2.9	1135	228.93	2.51	TF 88	8
3.4	978	197.20	2.91	TFF 88	8
				TFA 88	6
3.3	1016	270.68	2.80	TFAF88	6
3.5	958	255.37	2.97	TF 88	6
3.9	859	228.93	3.31	TFF 88	6
3.9	847	225.79	1.68		
4.5	744	198.31	1.91	TFA 78	6
4.7	707	188.40	2.01	TFAF78	6
5.3	625	166.47	2.28	TF 78	6
6.2	534	142.27	2.66	TFF 78	6
4.9	673	281.71	2.11	TFA 78	4
5.3	628	262.93	2.26	TFAF78	4
6.2	539	225.79	2.64	TF 78	4
7.0	474	198.31	3.00	TFF 78	4
4.5	733	195.39	1.06		
5.2	641	170.85	1.21	TFA 68	6
5.5	609	162.31	1.27	TFAF68	6
6.2	534	142.40	1.45	TF 68	6
7.3	453	120.79	1.71	TFF 68	6

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type	极数 Pole p
0.37kW					
6.1	547	228.99	1.42		
7.1	467	195.39	1.66	TFA 68	4
8.1	408	170.85	1.90	TFAF68	4
8.6	388	162.31	2.00	TF 68	4
9.8	340	142.40	2.29	TFF 68	4
12	289	120.79	2.69		
5.6	590	157.09	0.96	TFA 58	6
6.5	511	136.16	1.11	TFAF58	6
7.0	478	127.27	1.19	TF 58	6
8.0	413	110.01	1.38	TFF 58	6
7.0	477	199.70	1.19		
7.6	439	183.60	1.29		
8.8	375	157.09	1.52	TFA 58	4
10	325	136.16	1.75	TFAF58	4
11	304	127.27	1.87	TF 58	4
13	263	110.01	2.16	TFF 58	4
15	223	93.47	2.55		
17	199	83.46	2.86		
9.3	366	150.06	1.03		
11	311	130.07	1.22		
11	290	121.57	1.31	TFA 48	4
13	256	105.09	1.48	TFAF48	4
16	213	89.29	1.78	TF 48	4
17	195	79.72	1.94	TFF 48	4
20	166	68.09	2.28		
21	156	65.36	2.43		
25	135	56.49	2.81		
16	207	86.53	0.91		
17	193	80.65	0.98		
20	168	70.50	1.13		
21	158	66.09	1.20		
24	139	58.32	1.36		
25	130	54.54	1.46		
27	124	51.70	1.53		
30	112	47.02	1.69		
32	105	43.83	1.80		
36	92	38.31	2.06		
39	86	35.91	2.20		
44	76	31.69	2.50		
49	67	28.10	2.83	TFA 38	4
58	57	23.88	3.33	TFAF38	4
68	50	20.57	3.80	TF 38	4
72	47	19.27	4.04	TFF 38	4
82	42	17.03	4.52		
88	39	15.81	4.87		
97	35	14.33	5.42		
108	31	12.87	6.12		
125	27	11.08	6.68		
133	25	10.42	7.03		
155	22	8.97	7.55		
185	18	7.51	7.65		
204	17	6.81	7.82		
227	15	6.11	8.55		
264	13	5.27	9.13		
281	12	4.95	9.50		
326	10	4.26	10.45		
25	135	56.62	0.91		
28	120	50.19	1.02		
30	112	46.78	1.10	TFA 28	4
34	98	40.89	1.26	TFAF28	4
36	92	38.33	1.34	TF 28	4
41	81	33.83	1.52	TFF 28	4
47	72	29.56	1.71		
51	66	27.18	1.87		
60	57	23.25	2.16		

选型参数表
Selection Table

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
0.37kW					
69	49	20.15	2.52		
74	46	18.84	2.68		
85	40	16.28	3.08		
100	34	13.84	3.63		
113	30	12.35	4.11	TFA 28	4
132	26	10.55	4.75	TFAF28	4
141	24	9.88	5.14	TF 28	4
148	23	9.40	5.36	TFF 28	4
171	20	8.13	5.84		
201	17	6.91	6.37		
225	15	6.17	6.90		
264	13	5.27	7.30		
282	12	4.93	7.60		
334	10	4.16	8.26		
0.55kW					
0.22	21307	6366	0.80		
0.25	18553	5543	0.92		
0.49	9549	2853	1.79	TFA 158TR98	4
0.57	8230	2459	2.07	TFAF158TR98	4
0.81	5864	1717	2.91	TF 158TR98	4
0.95	4976	1457	3.43	TFF 158TR98	4
1.1	4498	1317	3.80		
1.2	4092	1198	4.17		
0.36	12950	3869	0.88	TFA 128TR78	4
0.41	11393	3404	1.00	TFAF128TR78	4
0.47	10089	2954	1.12	TF 128TR78	4
				TFF 128TR78	4
0.59	8094	2370	0.90		
0.67	7063	2068	1.03		
0.76	6236	1826	1.16		
0.87	5454	1597	1.33	TFA 108TR78	4
0.98	4843	1418	1.50	TFAF108TR78	4
1.1	4252	1245	1.71	TF 108TR78	4
1.3	3712	1087	1.96	TFF 108TR78	4
1.5	3245	950	2.24		
1.7	2790	817	2.61		
2.2	2186	640	3.33		
1.0	4638	1358	0.88		
1.2	4037	1182	1.01		
1.3	3528	1033	1.15		
1.6	3040	890	1.34	TFA 98TR58	4
1.8	2695	789	1.51	TFAF98TR58	4
2.0	2370	694	1.72	TF 98TR58	4
2.3	2087	611	1.95	TFF 98TR58	4
2.6	1824	534	2.23		
2.9	1615	473	2.52		
3.5	1363	399	2.99		
3.7	1284	376	3.18		
1.6	2999	878	0.95		
1.7	2732	800	1.04		
2.0	2363	692	1.20	TFA 88TR58	4
2.2	2118	620	1.34	TFAF88TR58	4
2.7	1755	514	1.62	TF 88TR58	4
3.0	1557	456	1.83	TFF 88TR58	4
4.1	1161	340	2.45		
2.6	1793	525	0.79	TFA 78TR38	4
3.0	1602	469	0.88	TFAF78TR38	4
3.4	1404	411	1.01	TF 78TR38	4
3.8	1250	366	1.14	TFF 78TR38	4
4.5	1066	312	1.33		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
0.55kW					
5.4	881	258	0.88		
5.8	829	238	0.93	TFA 68TR38	4
6.2	768	225	1.01	TFAF68TR38	4
7.0	697	200	1.11	TF 68TR38	4
7.2	663	194	1.17	TFF 68TR38	4
8.4	567	166	1.37		
2.4	2051	278.29	1.99	TFA 98	8
2.6	1877	254.79	2.17	TFAF98	8
3.0	1659	225.10	2.46	TF 98	8
				TFF 98	8
2.5	1994	270.68	1.42	TFA 88	8
2.6	1882	255.37	1.51	TFAF88	8
2.9	1687	228.93	1.68	TF 88	8
3.4	1453	197.20	1.96	TFF 88	8
3.3	1510	270.68	1.88	TFA 88	6
3.5	1425	255.37	2.00	TFAF88	6
3.9	1277	228.93	2.23	TF 88	6
4.5	1100	197.20	2.59	TFF 88	6
4.9	1004	179.97	2.83		
3.9	1260	225.79	1.13		
4.5	1106	198.31	1.28	TFA 78	6
4.7	1051	188.40	1.35	TFAF78	6
5.3	929	166.47	1.53	TF 78	6
6.2	794	142.27	1.79	TFF 78	6
6.8	728	130.42	1.95		
6.2	802	225.79	1.77		
7.0	704	198.31	2.02		
7.4	669	188.40	2.13	TFA 78	4
8.3	591	166.47	2.41	TFAF78	4
9.8	505	142.27	2.82	TF 78	4
11	463	130.42	3.07	TFF 78	4
12	406	114.45	3.50		
13	385	108.46	3.70		
15	337	94.93	4.22		
7.1	694	195.39	1.12		
8.1	607	170.85	1.28		
8.6	576	162.31	1.35		
9.8	506	142.40	1.53	TFA 68	4
12	429	120.79	1.81	TFAF68	4
13	387	109.04	2.01	TF 68	4
14	341	95.94	2.28	TFF 68	4
15	322	90.59	2.41		
18	277	77.97	2.81		
8.8	558	157.09	1.02		
10	484	136.16	1.17		
11	452	127.27	1.26	TFA 58	4
13	391	110.01	1.45	TFAF58	4
15	332	93.47	1.71	TF 58	4
17	296	83.46	1.92	TFF 58	4
19	260	73.16	2.19		
20	243	68.38	2.34		
24	210	59.10	2.71		
13	381	105.09	0.99		
16	317	89.29	1.19		
17	289	79.72	1.31	TFA 48	4
20	247	68.09	1.53	TFAF48	4
21	232	65.36	1.63	TF 48	4
25	201	56.49	1.89	TFF 48	4
29	174	48.00	2.18		
32	155	42.86	2.45		

选型参数表
Selection Table

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
0.55kW					
25	194	54.54	0.97		
30	167	47.02	1.13		
32	156	43.83	1.21		
36	136	38.31	1.39		
39	128	35.91	1.48		
44	113	31.69	1.68		
49	100	28.10	1.90		
58	85	23.88	2.23		
68	75	20.57	2.53	TFA 38	4
72	70	19.27	2.71	TFAF38	4
82	62	17.03	3.06	TF 38	4
88	57	15.81	3.33	TFF 38	4
97	52	14.33	3.65		
108	47	12.87	4.04		
125	40	11.08	4.51		
133	38	10.42	4.62		
155	33	8.97	5.03		
174	29	8.01	5.56		
185	27	7.51	5.10		
204	25	6.81	5.32		
227	22	6.11	5.82		
264	19	5.27	6.25		
281	18	4.95	6.33		
326	15	4.26	6.96		
365	14	3.81	7.12		
60	84	23.25	1.47		
69	73	20.15	1.69		
74	68	18.84	1.81		
85	59	16.28	2.09		
100	50	13.84	2.47		
113	45	12.35	2.74	TFA 28	4
132	38	10.55	3.25	TFAF28	4
141	36	9.88	3.43	TF 28	4
148	34	9.40	3.63	TFF 28	4
171	29	8.13	4.02		
201	25	6.91	4.33		
225	22	6.17	4.70		
264	19	5.27	5.00		
282	18	4.93	5.06		
334	15	4.16	5.51		
0.75kW					
0.49	13022	2853	1.31		
0.57	11223	2459	1.52	TFA 158TR98	4
0.81	7997	1717	2.13	TFAF158TR98	4
0.95	6786	1457	2.51	TF 158TR98	4
1.1	6134	1317	2.78	TFF 158TR98	4
1.2	5579	1198	3.06		
0.47	13758	2954	0.82		
0.52	12547	2694	0.90	TFA 128TR78	4
0.59	11066	2376	1.03	TFAF128TR78	4
0.68	9566	2054	1.19	TF 128TR78	4
0.77	8369	1797	1.36	TFF 128TR78	4
0.86	7540	1619	1.51		
0.76	8504	1826	0.85		
0.87	7438	1597	0.98		
0.98	6604	1418	1.10		
1.1	5798	1245	1.25	TFA 108TR78	4
1.3	5062	1087	1.44	TFAF108TR78	4
1.5	4424	950	1.64	TF 108TR78	4
1.7	3805	817	1.91	TFF 108TR78	4
2.2	2981	640	2.44		
3.2	2031	436	3.59		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
0.75kW					
1.3	4811	1033	0.84		
1.6	4145	890	0.98		
1.8	3675	789	1.11	TFA 98TR58	4
2.0	3232	694	1.26	TFAF98TR58	4
2.3	2846	611	1.43	TF 98TR58	4
2.6	2487	534	1.64	TFF 98TR58	4
2.9	2203	473	1.85		
3.5	1858	399	2.19		
3.7	1751	376	2.33		
2.0	3223	692	0.88		
2.2	2888	620	0.98	TFA 88TR58	4
2.7	2394	514	1.19	TFAF88TR58	4
3.0	2124	456	1.34	TF 88TR58	4
4.1	1583	340	1.80	TFF 88TR58	4
3.8	1705	366	0.83	TFA 78TR38	4
4.5	1453	312	0.98	TFAF78TR38	4
5.1	1271	273	1.12	TF 78TR38	4
				TFF 78TR38	4
2.7	2519	254.40	2.89	TFA 108	8
				TFAF108	8
				TF 108	8
				TFF 108	8
2.4	2755	278.29	1.48	TFA 98	8
2.7	2522	254.79	1.61	TFAF98	8
3.0	2229	225.10	1.83	TF 98	8
				TFF 98	8
3.3	2059	278.29	1.98	TFA 98	6
3.6	1885	254.79	2.16	TFAF98	6
4.0	1665	225.10	2.45	TF 98	6
				TFF 98	6
3.4	2002	270.68	1.42		
3.6	1889	255.37	1.50	TFA 88	6
4.0	1694	228.93	1.68	TFAF88	6
4.6	1459	197.20	1.95	TF 88	6
5.1	1331	179.97	2.14	TFF 88	6
5.7	1181	159.61	2.41		
5.1	1311	270.68	2.17	TFA 88	4
5.4	1237	255.37	2.30	TFAF88	4
6.1	1109	228.93	2.56	TF 88	4
				TFF 88	4
4.6	1467	198.31	0.97	TFA 78	6
4.8	1394	188.40	1.02	TFAF78	6
5.5	1232	166.47	1.15	TF 78	6
6.4	1052	142.27	1.35	TFF 78	6
7.0	965	130.42	1.47		
6.2	1094	225.79	1.30		
7.0	960	198.31	1.48		
7.4	912	188.40	1.56	TFA 78	4
8.3	806	166.47	1.76	TFAF78	4
9.8	689	142.27	2.06	TF 78	4
11	632	130.42	2.25	TFF 78	4
12	554	114.45	2.57		
13	525	108.46	2.71		
8.1	827	170.85	0.94		
8.6	786	162.31	0.99		
9.8	690	142.40	1.12		
12	585	120.79	1.33	TFA 68	4
13	528	109.04	1.47	TFAF68	4
14	465	95.94	1.67	TF 68	4
15	439	90.59	1.77	TFF 68	4
18	378	77.97	2.06		
21	320	66.13	2.43		
23	289	59.70	2.69		

选型参数表
Selection Table

0.75kW

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type	极数 Pole p
11	616	127.27	0.92		
13	533	110.01	1.06		
15	453	93.47	1.25	TFA 58	4
17	404	83.46	1.41	TFAF58	4
19	354	73.16	1.61	TF 58	4
20	331	68.38	1.72	TFF 58	4
24	286	59.10	1.99		
28	243	50.22	2.34		
31	217	44.84	2.62		
17	394	79.72	0.96		
20	337	68.09	1.12		
21	317	65.36	1.19		
25	274	56.49	1.38	TFA 48	4
29	237	48.00	1.60	TFAF48	4
32	212	42.86	1.79	TF 48	4
38	181	36.61	2.09	TFF 48	4
41	166	34.29	2.28		
48	143	28.88	2.65		
30	228	47.02	0.83		
32	212	43.83	0.89		
36	186	38.31	1.02		
39	174	35.91	1.09		
44	153	31.69	1.24		
49	136	28.10	1.39		
58	116	23.88	1.63		
68	102	20.57	1.86		
72	95	19.27	2.00		
82	84	17.03	2.26		
88	78	15.81	2.43		
97	71	14.33	2.67		
108	64	12.87	2.96	TFA 38	4
125	55	11.08	3.28	TFAF38	4
133	52	10.42	3.37	TF 38	4
155	44	8.97	3.77	TFF 38	4
174	40	8.01	4.03		
185	37	7.51	3.72		
204	34	6.81	3.91		
227	30	6.11	4.27		
264	26	5.27	4.56		
281	24	4.95	4.75		
326	21	4.26	4.97		
365	19	3.81	5.25		
60	115	23.25	1.07		
69	100	20.15	1.23		
74	93	18.84	1.32		
85	81	16.28	1.52		
100	68	13.84	1.81		
113	61	12.35	2.02		
132	52	10.55	2.37	TFA 28	4
141	49	9.88	2.52	TFAF28	4
148	46	9.40	2.68	TF 28	4
171	40	8.13	2.92	TFF 28	4
201	34	6.91	3.18		
225	31	6.17	3.34		
264	26	5.27	3.65		
282	24	4.93	3.80		
334	21	4.16	3.93		

1.1kW

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type	极数 Pole p
0.49	18962	2853	0.90	TFA 158TR98	4
0.57	16343	2459	1.04	TFAF158TR98	4
0.63	15008	2213	1.13	TF 158TR98	4
0.71	13354	1969	1.28	TFF 158TR98	4
0.82	11645	1717	1.46		
0.96	9881	1457	1.73		
1.1	8932	1317	1.91	TFA 158TR98	4
1.2	8125	1198	2.10	TFAF158TR98	4
1.5	6511	960	2.62	TF 158TR98	4
1.7	5670	836	3.01	TFF 158TR98	4
3.1	3128	452	5.46		
4.6	2090	302	8.18		
0.68	13930	2054	0.81		
0.78	12187	1797	0.93	TFA 128TR78	4
0.86	10980	1619	1.03	TFAF128TR78	4
1.0	9501	1401	1.19	TF 128TR78	4
1.1	8335	1229	1.36	TFF 128TR78	4
1.3	7358	1085	1.54		
1.1	8443	1245	0.86		
1.3	7372	1087	0.98	TFA 108TR78	4
1.5	6443	950	1.13	TFAF108TR78	4
1.7	5541	817	1.31	TF 108TR78	4
1.9	4991	736	1.46	TFF 108TR78	4
2.2	4340	640	1.68		
2.0	4707	694	0.86		
2.3	4144	611	0.98	TFA 98TR58	4
2.6	3622	534	1.12	TFAF98TR58	4
3.0	3208	473	1.27	TF 98TR58	4
3.5	2706	399	1.50	TFF 98TR58	4
3.7	2550	376	1.60		
3.1	3093	456	0.92	TFA 88TR58	4
4.1	2306	340	1.23	TFAF88TR58	4
4.7	2035	300	1.40	TF 88TR58	4
5.6	1689	249	1.68	TFF 88TR58	4
2.7	3694	254.40	1.97	TFA 108	8
3.2	3127	215.37	2.33	TFAF108	8
3.4	2894	199.31	2.52	TF 108	8
3.8	2594	178.64	2.81	TFF 108	8
3.3	3019	278.29	1.35		
3.6	2765	254.79	1.47	TFA 98	6
4.0	2442	225.10	1.67	TFAF98	6
4.8	2072	190.95	1.97	TF 98	6
5.2	1908	175.83	2.14	TFF 98	6
5.0	1963	278.29	2.08	TFA 98	4
5.5	1797	254.79	2.27	TFAF98	4
6.2	1588	225.10	2.57	TF 98	4
				TFF 98	4
3.4	2937	270.68	0.97		
3.6	2771	255.37	1.02	TFA 88	6
4.0	2484	228.93	1.14	TFAF88	6
4.6	2140	197.20	1.33	TF 88	6
5.1	1953	179.97	1.45	TFF 88	6
5.7	1732	159.61	1.64		
5.2	1909	270.68	1.49		
5.5	1801	255.37	1.58		
6.1	1615	228.93	1.76		
7.1	1391	197.20	2.04	TFA 88	4
7.8	1269	179.97	2.24	TFAF88	4
8.8	1126	159.61	2.53	TF 88	4
10	946	134.16	3.01	TFF 88	4
11	870	123.29	3.27		

选型参数表
Selection Table

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
1.1kW					
7.1	1399	198.31	1.01		
7.4	1329	188.40	1.07		
8.4	1174	166.47	1.21	TFA 78	4
9.8	1003	142.27	1.42	TFAF78	4
11	920	130.42	1.54	TF 78	4
12	807	114.45	1.76	TFF 78	4
13	765	108.46	1.86		
15	670	94.93	2.12		
16	603	85.52	2.36		
19	529	75.02	2.69		
12	852	120.79	0.91		
13	769	109.04	1.01		
15	677	95.94	1.15		
15	639	90.59	1.21		
18	550	77.97	1.41	TFA 68	4
21	466	66.13	1.67	TFAF68	4
23	421	59.70	1.85	TF 68	4
27	370	52.53	2.10	TFF 68	4
28	350	49.60	2.22		
33	298	42.23	2.61		
36	271	38.38	2.73		
42	234	33.24	3.00		
17	589	83.46	0.96		
19	516	73.16	1.10		
20	482	68.38	1.18		
24	417	59.10	1.36	TFA 58	4
28	354	50.22	1.61	TFAF58	4
31	316	44.84	1.80	TF 58	4
37	270	38.30	2.11	TFF 58	4
39	253	35.87	2.25		
46	213	30.22	2.63		
25	398	56.49	0.95		
29	346	48.00	1.09		
33	309	42.86	1.22		
38	264	36.61	1.43	TFA 48	4
41	242	34.29	1.57	TFAF48	4
48	208	28.88	1.82	TF 48	4
54	181	25.72	2.09	TFF 48	4
64	157	21.82	2.42		
71	139	19.70	2.73		
44	223	31.69	0.85		
50	198	28.10	0.95		
59	168	23.88	1.13		
68	148	20.57	1.28		
73	139	19.27	1.36		
82	123	17.03	1.54		
89	114	15.81	1.66		
98	103	14.33	1.84		
109	93	12.87	2.04	TFA 38	4
126	80	11.08	2.25	TFAF38	4
134	75	10.42	2.34	TF 38	4
156	65	8.97	2.55	TFF 38	4
175	58	8.01	2.78		
186	54	7.51	2.55		
206	49	6.81	2.71		
229	44	6.11	2.91		
266	38	5.27	3.12		
283	36	4.95	3.16		
329	31	4.26	3.37		
367	27	3.81	3.69		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
1.1kW					
86	117	16.28	1.05		
101	100	13.84	1.23		
113	89	12.35	1.38		
133	76	10.55	1.62	TFA 28	4
142	71	9.88	1.73	TFAF28	4
149	68	9.40	1.81	TF 28	4
172	59	8.13	1.98	TFF 28	4
203	50	6.91	2.16		
227	44	6.17	2.35		
266	38	5.27	2.50		
284	36	4.93	2.53		
337	30	4.16	2.75		
1.5kW					
0.57	22286	2459	0.76		
0.63	20466	2213	0.83		
0.71	18209	1969	0.93		
0.82	15879	1717	1.07	TFA 158TR98	4
0.96	13474	1457	1.26	TFAF158TR98	4
1.1	12180	1317	1.40	TF 158TR98	4
1.2	11079	1198	1.54	TFF 158TR98	4
1.5	8878	960	1.92		
1.7	7731	836	2.21		
3.1	4265	452	4.00		
4.6	2850	302	6.00		
0.86	14973	1619	0.76		
1.0	12957	1401	0.87		
1.1	11366	1229	1.00	TFA 128TR78	4
1.3	10034	1085	1.13	TFAF128TR78	4
1.5	8665	937	1.31	TF 128TR78	4
1.7	7648	827	1.49	TFF 128TR78	4
1.9	6779	733	1.68		
2.1	6039	653	1.88		
1.5	8786	950	0.83		
1.7	7556	817	0.96		
1.9	6807	736	1.07	TFA 108TR78	4
2.2	5919	640	1.23	TFAF108TR78	4
2.5	5179	560	1.40	TF 108TR78	4
2.9	4522	489	1.61	TFF 108TR78	4
3.2	4032	436	1.80		
3.8	3422	370	2.13		
2.6	4938	534	0.82	TFA 98TR58	4
3.0	4374	473	0.93	TFAF98TR58	4
3.5	3690	399	1.10	TF 98TR58	4
3.7	3477	376	1.17	TFF 98TR58	4
4.1	3144	340	0.90	TFA 88TR58	4
4.7	2774	300	1.02	TFAF88TR58	4
5.6	2303	249	1.23	TF 88TR58	4
				TFF 88TR58	4
2.7	4964	254.40	1.46	TFA 108	8
3.2	4203	215.37	1.73	TFAF108	8
3.5	3889	199.31	1.87	TF 108	8
3.9	3486	178.64	2.09	TFF 108	8
3.6	3723	254.40	1.95	TFA 108	6
4.3	3152	215.37	2.31	TFAF108	6
4.6	2917	199.31	2.50	TF 108	6
5.2	2614	178.64	2.79	TFF 108	6

选型参数表
Selection Table

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
1.5kW					
3.3	4073	278.29	1.00		
3.6	3729	254.79	1.09	TFA 98	6
4.1	3294	225.10	1.24	TFAF98	6
4.8	2795	190.95	1.46	TF 98	6
5.2	2573	175.83	1.58	TFF 98	6
5.0	2676	278.29	1.52		
5.5	2450	254.79	1.66	TFA 98	4
6.2	2165	225.10	1.88	TFAF98	4
7.3	1836	190.95	2.22	TF 98	4
8.0	1691	175.83	2.41	TFF 98	4
5.2	2603	270.68	1.09		
5.5	2456	255.37	1.16		
6.1	2202	228.93	1.29		
7.1	1897	197.20	1.50	TFA 88	4
7.8	1731	179.97	1.64	TFAF88	4
8.8	1535	159.61	1.85	TF 88	4
10	1290	134.16	2.20	TFF 88	4
11	1186	123.29	2.40		
13	1053	109.49	2.70		
14	941	97.89	3.02		
8.4	1601	166.47	0.89		
9.8	1368	142.27	1.04		
11	1254	130.42	1.13		
12	1101	114.45	1.29		
13	1043	108.46	1.36		
15	913	94.93	1.56		
16	822	85.52	1.73		
19	721	75.02	1.97	TFA 78	4
19	695	72.29	2.05	TFAF78	4
21	637	66.28	2.23	TF 78	4
24	559	58.16	2.54	TFF 78	4
25	530	55.12	2.68		
29	464	48.24	3.07		
32	418	43.46	3.40		
37	367	38.12	3.88		
42	324	33.64	4.39		
47	287	29.82	4.96		
55	245	25.47	5.62		
15	871	90.59	0.89		
18	750	77.97	1.03		
21	636	66.13	1.22		
23	574	59.70	1.35		
27	505	52.53	1.54	TFA 68	4
28	477	49.60	1.63	TFAF68	4
33	406	42.23	1.91	TF 68	4
36	369	38.38	2.00	TFF 68	4
42	320	33.24	2.19		
51	269	27.41	2.89		
56	247	25.13	3.15		
24	568	59.10	1.00		
28	483	50.22	1.18	TFA 58	4
31	431	44.84	1.32	TFAF58	4
37	368	38.30	1.54	TF 58	4
39	345	35.87	1.65	TFF 58	4
46	291	30.22	1.92		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
1.5kW					
33	421	42.86	0.90		
38	360	36.61	1.05		
41	330	34.29	1.15		
48	284	28.88	1.33	TFA 48	4
54	247	25.72	1.53	TFAF48	4
64	214	21.82	1.77	TF 48	4
71	189	19.70	2.01	TFF 48	4
81	167	17.33	2.27		
86	161	16.36	2.36		
101	134	13.93	2.83		
68	202	20.57	0.94		
73	189	19.27	1.00		
82	167	17.03	1.13		
89	155	15.81	1.22		
98	141	14.33	1.34		
109	126	12.87	1.50		
126	109	11.08	1.65	TFA 38	4
134	102	10.42	1.72	TFAF38	4
156	88	8.97	1.88	TF 38	4
175	79	8.01	2.04	TFF 38	4
186	74	7.51	1.86		
206	67	6.81	1.98		
229	60	6.11	2.13		
266	52	5.27	2.28		
283	49	4.95	2.32		
329	42	4.26	2.48		
367	37	3.81	2.69		
113	121	12.35	1.02		
133	104	10.55	1.18		
142	97	9.88	1.27		
149	92	9.40	1.34	TFA 28	4
172	80	8.13	1.46	TFAF28	4
203	68	6.91	1.59	TF 28	4
227	61	6.17	1.69	TFF 28	4
266	52	5.27	1.82		
284	48	4.93	1.90		
337	41	4.16	2.01		
2.2kW					
0.97	19484	1457	0.87		
1.1	17612	1317	0.97		
1.2	16021	1198	1.06	TFA 158TR98	4
1.5	12838	960	1.33	TFAF158TR98	4
1.7	11180	836	1.52	TF 158TR98	4
1.8	10484	784	1.63	TFF 158TR98	4
2.0	9321	697	1.83		
2.4	7903	591	2.16		
3.1	6168	452	2.77		
4.0	4694	351	3.64		
4.7	4121	302	4.14		
5.1	3744	280	4.56		
6.0	3183	238	5.37		
7.1	2688	201	6.36		
1.3	14509	1085	0.78		
1.5	12530	937	0.90		
1.7	11059	827	1.03	TFA 128TR78	4
1.9	9802	733	1.16	TFAF128TR78	4
2.2	8732	653	1.30	TF 128TR78	4
2.6	7395	553	1.54	TFF 128TR78	4
2.8	6673	499	1.70		
3.3	5777	432	1.97		

选型参数表
Selection Table

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
2.2kW					
1.3	14509	1085	0.78		
1.5	12530	937	0.90		
1.7	11059	827	1.03	TFA 128TR78	4
1.9	9802	733	1.16	TFAF128TR78	4
2.2	8732	653	1.30	TF 128TR78	4
2.6	7395	553	1.54	TFF 128TR78	4
2.8	6673	499	1.70		
3.3	5777	432	1.97		
2.2	8559	640	0.85		
2.5	7489	560	0.97		
2.9	6539	489	1.11	TFA 108TR78	4
3.3	5831	436	1.25	TFAF108TR78	4
3.8	4948	370	1.47	TF 108TR78	4
4.3	4453	333	1.63	TFF 108TR78	4
3.8	5028	376	0.81	TFA 98TR58	4
4.9	3851	288	1.06	TFAF98TR58	4
5.7	3303	247	1.23	TF 98TR58	4
				TFF 98TR58	4
2.8	7076	254.40	1.03	TFA 108	8
3.3	5990	215.37	1.21	TFAF108	8
3.6	5543	199.31	1.31	TF 108	8
4.0	4969	178.64	1.46	TFF 108	8
3.7	5344	254.40	1.36	TFA 108	6
4.4	4524	215.37	1.61	TFAF108	6
4.7	4187	199.31	1.74	TF 108	6
5.3	3753	178.64	1.94	TFF 108	6
5.6	3538	254.40	2.06	TFA 108	4
6.6	2995	215.37	2.43	TFAF108	4
7.1	2772	199.31	2.63	TF 108	4
7.9	2484	178.64	2.93	TFF 108	4
4.2	4729	225.10	0.86	TFA 98	6
4.9	4011	190.95	1.01	TFAF98	6
5.3	3694	175.83	1.10	TF 98	6
6.0	3302	157.16	1.23	TFF 98	6
5.1	3870	278.29	1.05		
5.6	3543	254.79	1.15		
6.3	3130	225.10	1.30	TFA 98	4
7.4	2655	190.95	1.53	TFAF98	4
8.1	2445	175.83	1.67	TF 98	4
9.0	2186	157.16	1.86	TFF 98	4
10	1967	141.47	2.07		
11	1782	128.12	2.29		
7.2	2742	197.20	1.03		
7.9	2503	179.97	1.13		
8.9	2220	159.61	1.28		
11	1866	134.16	1.52		
12	1715	123.29	1.66		
13	1523	109.49	1.87	TFA 88	4
15	1361	97.89	2.09	TFAF88	4
16	1224	88.01	2.32	TF 88	4
19	1062	76.39	2.68	TFF 88	4
21	951	68.40	2.99		
25	789	56.75	3.61		
28	699	50.29	3.99		
31	629	45.22	4.25		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
2.2kW					
12	1592	114.45	0.89		
13	1508	108.46	0.94		
15	1320	94.93	1.07		
17	1189	85.52	1.19		
19	1043	75.02	1.36		
20	1005	72.29	1.41		
21	922	66.28	1.54	TFA 78	4
24	809	58.16	1.76	TFAF78	4
26	767	55.12	1.85	TF 78	4
29	671	48.24	2.12	TFF 78	4
33	604	43.46	2.35		
37	530	38.12	2.68		
42	468	33.64	3.04		
48	415	29.82	3.43		
56	354	25.47	3.89		
24	830	59.70	0.93		
27	731	52.53	1.06		
29	690	49.60	1.12		
34	587	42.23	1.32		
37	534	38.38	1.38	TFA 68	4
43	462	33.24	1.52	TFAF68	4
52	389	27.41	2.00	TF 68	4
57	357	25.13	2.18	TFF 68	4
64	313	22.05	2.48		
68	297	20.90	2.62		
78	260	18.29	2.99		
32	624	44.84	0.91		
37	533	38.30	1.06		
40	499	35.87	1.14	TFA 58	4
47	420	30.22	1.33	TFAF58	4
57	354	24.96	1.54	TF 58	4
67	301	21.17	1.89	TFF 58	4
74	271	19.11	2.10		
84	239	16.81	2.38		
89	226	15.88	2.52		
55	358	25.72	1.06		
65	310	21.82	1.22		
72	274	19.70	1.38		
82	241	17.33	1.57	TFA 48	4
87	232	16.36	1.63	TFAF48	4
102	194	13.93	1.95	TF 48	4
112	180	12.66	2.11	TFF 48	4
129	153	10.97	2.48		
158	125	8.96	2.50		
99	204	14.33	0.93		
110	183	12.87	1.03		
128	157	11.08	1.14		
136	148	10.42	1.18		
158	127	8.97	1.30	TFA 38	4
177	114	8.01	1.41	TFAF38	4
189	107	7.51	1.28	TF 38	4
209	97	6.81	1.37	TFF 38	4
232	87	6.11	1.47		
269	75	5.27	1.58		
287	70	4.95	1.62		
333	61	4.26	1.71		
373	54	3.81	1.84		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
3kW					
1.2	21846	1198	0.78		
1.5	17506	960	0.97		
1.7	15245	836	1.12		
1.8	14297	784	1.19	TFA 158TR98	4
2.0	12710	697	1.34	TFAF158TR98	4
2.4	10777	591	1.58	TF 158TR98	4
3.1	8411	452	2.03	TFF 158TR98	4
4.0	6401	351	2.67		
4.7	5620	302	3.04		
5.1	5106	280	3.34		
6.0	4340	238	3.94		
7.1	3665	201	4.66		
1.9	13367	733	0.85	TFA 128TR78	4
2.2	11908	653	0.95	TFAF128TR78	4
2.6	10084	553	1.13	TF 128TR78	4
2.8	9100	499	1.25	TFF 128TR78	4
3.3	7951	436	0.91	TFA 108TR78	4
3.8	6747	370	1.08	TFAF108TR78	4
4.3	6072	333	1.20	TF 108TR78	4
4.9	5307	291	1.37	TFF 108TR78	4
3.8	7136	254.40	1.02	TFA 108	6
4.5	6041	215.37	1.20	TFAF108	6
4.8	5591	199.31	1.30	TF 108	6
5.4	5011	178.64	1.45	TFF 108	6
5.6	4824	254.40	1.51	TFA 108	4
6.6	4084	215.37	1.78	TFAF108	4
7.1	3780	199.31	1.93	TF 108	4
7.9	3388	178.64	2.15	TFF 108	4
8.8	3058	161.28	2.38		
6.3	4269	225.10	0.95		
7.4	3621	190.95	1.12		
8.1	3334	175.83	1.22		
9.0	2980	157.16	1.37	TFA 98	4
10	2683	141.47	1.52	TFAF98	4
11	2430	128.12	1.68	TF 98	4
12	2154	113.61	1.89	TFF 98	4
14	1948	102.72	2.09		
14	1869	98.58	2.18		
16	1721	90.77	2.37		
11	2544	134.16	1.12		
12	2338	123.29	1.21		
13	2076	109.49	1.37		
15	1856	97.89	1.53	TFA 88	4
16	1669	88.01	1.70	TFAF88	4
19	1449	76.39	1.96	TF 88	4
21	1297	68.40	2.19	TFF 88	4
25	1076	56.75	2.64		
28	954	50.29	2.92		
17	1622	85.52	0.87		
19	1423	75.02	1.00		
20	1371	72.29	1.03		
21	1257	66.28	1.13		
24	1103	58.16	1.29		
26	1045	55.12	1.36		
29	915	48.24	1.55	TFA 78	4
33	824	43.46	1.72	TFAF78	4
37	723	38.12	1.97	TF 78	4
42	638	33.64	2.23	TFF 78	4
48	565	29.82	2.52		
56	483	25.47	2.85		
66	415	21.43	3.43		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
3kW					
34	801	42.23	0.97		
37	728	38.38	1.01		
43	630	33.24	1.11		
52	531	27.41	1.46	TFA 68	4
57	487	25.13	1.59	TFAF68	4
64	427	22.05	1.82	TF 68	4
68	405	20.90	1.92	TFF 68	4
78	354	18.29	2.20		
86	319	16.48	2.44		
98	280	14.46	2.78		
57	483	24.96	1.13		
67	410	21.17	1.39		
74	370	19.11	1.54	TFA 58	4
84	326	16.81	1.74	TFAF58	4
89	308	15.88	1.85	TF 58	4
105	262	13.52	2.17	TFF 58	4
116	238	12.29	2.39		
133	206	10.64	2.76		
72	374	19.70	1.01		
82	329	17.33	1.15	TFA 48	4
87	317	16.36	1.19	TFAF48	4
102	264	13.93	1.43	TF 48	4
112	245	12.66	1.55	TFF 48	4
129	208	10.97	1.82		
158	170	8.96	1.84		
128	215	11.08	0.83		
136	202	10.42	0.87		
158	174	8.97	0.95		
177	155	8.01	1.04	TFA 38	4
189	145	7.51	0.95	TFAF38	4
209	132	6.81	1.00	TF 38	4
232	118	6.11	1.08	TFF 38	4
269	102	5.27	1.16		
287	96	4.95	1.18		
333	83	4.26	1.25		
373	74	3.81	1.34		
4kW					
1.7	20044	836	0.85		
1.8	18798	784	0.90		
2.1	16712	697	1.02		
2.4	14170	591	1.20	TFA 158TR98	4
3.2	11059	452	1.54	TFAF158TR98	4
4.1	8416	351	2.03	TF 158TR98	4
4.8	7389	302	2.31	TFF 158TR98	4
5.1	6713	280	2.54		
6.1	5706	238	2.99		
7.2	4819	201	3.54		
2.6	13259	553	0.85	TFA 128TR78	4
2.9	11964	499	0.95	TFAF128TR78	4
3.3	10358	432	1.10	TF 128TR78	4
3.8	9087	379	1.25	TFF 128TR78	4
4.3	7984	333	0.91	TFA 108TR78	4
4.9	6977	291	1.04	TFAF108TR78	4
6.4	5395	225	1.35	TF 108TR78	4
				TFF 108TR78	4
4.2	8586	172.17	1.32	TFA 128	8
4.6	7723	154.88	1.47	TFAF128	8
5.7	6301	126.36	1.80	TF 128	8
				TFF 128	8

选型参数表
Selection Table

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
4kW					
5.7	6343	254.40	1.15		
6.7	5370	215.37	1.35		
7.2	4969	199.31	1.46		
8.1	4454	178.64	1.63	TFA 108	4
8.9	4021	161.28	1.81	TFAF108	4
9.8	3653	146.49	1.99	TF 108	4
11	3241	129.97	2.25	TFF 108	4
12	2941	117.94	2.48		
14	2528	101.38	2.88		
8.2	4384	175.83	0.93		
9.2	3919	157.16	1.04		
10	3527	141.47	1.15		
11	3194	128.12	1.27		
13	2833	113.61	1.44		
14	2561	102.72	1.59	TFA 98	4
15	2458	98.58	1.66	TFAF98	4
16	2263	90.77	1.80	TF 98	4
17	2171	87.06	1.88	TFF 98	4
18	2023	81.13	2.01		
20	1821	73.03	2.24		
22	1649	66.14	2.47		
13	2730	109.49	1.04		
15	2441	97.89	1.16		
16	2194	88.01	1.29	TFA 88	4
19	1905	76.39	1.49	TFAF88	4
21	1705	68.40	1.67	TF 88	4
25	1415	56.75	2.01	TFF 88	4
29	1254	50.29	2.22		
32	1127	45.22	2.37		
22	1653	66.28	0.86		
25	1450	58.16	0.98		
26	1374	55.12	1.03		
30	1203	48.24	1.18		
33	1084	43.46	1.31	TFA 78	4
38	950	38.12	1.50	TFAF78	4
43	839	33.64	1.69	TF 78	4
48	744	29.82	1.91	TFF 78	4
57	635	25.47	2.16		
67	546	21.43	2.60		
73	502	19.70	2.83		
53	698	27.41	1.11		
57	640	25.13	1.21		
65	561	22.05	1.38		
69	532	20.90	1.46		
79	466	18.29	1.67		
87	420	16.48	1.85		
100	368	14.46	2.11	TFA 68	4
113	325	12.76	2.39	TFAF68	4
127	288	11.31	2.70	TF 68	4
149	246	9.66	3.16	TFF 68	4
159	231	9.08	2.17		
167	219	8.60	2.47		
191	192	7.53	3.01		
212	173	6.78	3.40		
242	152	5.95	3.81		
274	134	5.25	4.18		
309	119	4.66	4.47		
363	101	3.97	4.70		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
4kW					
68	539	21.17	1.05		
75	487	19.11	1.17		
86	428	16.81	1.33		
91	404	15.88	1.41		
107	344	13.52	1.65	TFA 58	4
117	313	12.29	1.82	TFAF58	4
135	271	10.64	2.10	TF 58	4
155	237	9.31	1.68	TFF 58	4
176	209	8.19	1.90		
186	197	7.73	2.02		
219	168	6.58	2.37		
241	152	5.98	2.62		
278	132	5.18	2.98		
5.5kW					
2.4	19484	591	0.87		
2.8	17011	516	1.00		
3.2	15206	452	1.12		
4.1	11572	351	1.47	TFA 158TR98	4
4.8	10159	302	1.68	TFAF158TR98	4
4.9	9758	296	1.75	TF 158TR98	4
5.1	9231	280	1.85	TFF 158TR98	4
6.1	7846	238	2.17		
6.9	6857	208	2.49		
7.2	6627	201	2.58		
3.4	13879	421	0.82		
3.8	12429	377	0.91	TFA 128TR88	4
4.6	10319	313	1.10	TFAF128TR88	4
5.0	9528	289	1.19	TF 128TR88	4
5.5	8572	260	1.32	TFF 128TR88	4
6.4	7418	225	1.53		
				TFA 128TR78	4
3.3	14242	432	0.80	TFAF128TR78	4
3.8	12495	379	0.91	TF 128TR78	4
				TFF 128TR78	4
2.7	18572	270.86	0.92		
3.3	15113	220.41	1.13		
4.0	12375	180.48	1.38		
4.4	11317	165.05	1.51		
5.0	9848	143.62	1.73	TFA 158	8
5.7	8690	126.74	1.96	TFAF158	8
6.6	7534	109.88	2.26	TF 158	8
7.4	6703	97.76	2.55	TFF 158	8
8.2	6035	88.01	2.83		
8.9	5519	80.49	3.09		
10	4802	70.04	3.56		
4.2	11805	172.17	0.96	TFA 128	8
4.6	10620	154.88	1.07	TFAF128	8
5.7	8664	126.36	1.31	TF 128	8
6.2	7902	115.24	1.44	TFF 128	8
6.7	7384	215.37	0.98		
7.2	6833	199.31	1.06		
8.1	6124	178.64	1.19		
8.9	5529	161.28	1.31	TFA 108	4
9.8	5022	146.49	1.45	TFAF108	4
11	4456	129.97	1.63	TF 108	4
12	4043	117.94	1.80	TFF 108	4
14	3476	101.38	2.09		
16	3170	92.47	2.30		
16	3034	88.49	2.40		
17	2879	83.99	2.53		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
5.5kW					
11	4392	128.12	0.93		
13	3895	113.61	1.04		
14	3522	102.72	1.15		
15	3380	98.58	1.20		
16	3112	90.77	1.31	TFA 98	4
17	2985	87.06	1.36	TFAF98	4
18	2781	81.13	1.46	TF 98	4
19	2607	76.04	1.56	TFF 98	4
20	2504	73.03	1.63		
22	2268	66.14	1.80		
25	2011	58.65	2.03		
27	1818	53.03	2.24		
16	3017	88.01	0.94		
19	2619	76.39	1.08		
21	2345	68.40	1.21		
25	1946	56.75	1.46		
29	1724	50.29	1.62	TFA 88	4
32	1550	45.22	1.72	TFAF88	4
37	1346	39.25	1.91	TF 88	4
41	1205	35.14	2.05	TFF 88	4
49	1000	29.16	2.38		
54	928	26.50	3.07		
61	829	23.68	3.43		
30	1654	48.24	0.86		
33	1490	43.46	0.95		
38	1307	38.12	1.09		
43	1153	33.64	1.23		
48	1022	29.82	1.39	TFA 78	4
57	873	25.47	1.57	TFAF78	4
67	750	21.43	1.90	TF 78	4
73	690	19.70	2.06	TFF 78	4
82	612	17.49	2.32		
92	548	15.64	2.60		
102	492	14.06	2.89		
118	428	12.21	3.32		
65	772	22.05	1.00		
69	732	20.90	1.06		
79	640	18.29	1.21		
87	577	16.48	1.35		
100	506	14.46	1.53		
113	447	12.76	1.74		
127	396	11.31	1.96	TFA 68	4
149	338	9.66	2.30	TFAF68	4
159	318	9.08	1.58	TF 68	4
167	301	8.60	1.79	TFF 68	4
191	264	7.53	2.19		
212	237	6.78	2.48		
242	208	5.95	2.78		
274	184	5.25	3.04		
309	163	4.66	3.26		
363	139	3.97	3.41		
86	589	16.81	0.96		
91	556	15.88	1.02		
107	473	13.52	1.20		
117	430	12.29	1.32		
135	373	10.64	1.52	TFA 58	4
176	287	8.19	1.39	TFAF58	4
186	271	7.73	1.47	TF 58	4
219	230	6.58	1.73	TFF 58	4
241	209	5.98	1.90		
278	181	5.18	2.17		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
7.5kW					
4.7	13878	313	0.82	TFA 128R88	4
5.1	12814	289	0.88	TFAF128R88	4
5.6	11528	260	0.98	TF 128R88	4
6.5	9977	225	1.14	TFF 128R88	4
7.3	8824	199	1.29		
3.3	20608	220.41	0.82		
4.0	16875	180.48	1.01		
4.4	15432	165.05	1.10		
5.0	13429	143.62	1.27		
5.7	11850	126.74	1.44		
6.6	10274	109.88	1.66		
7.4	9141	97.76	1.87	TFA 158	8
8.2	8229	88.01	2.07	TFAF158	8
8.9	7526	80.49	2.27	TF 158	8
10	6549	70.04	2.61	TFF 158	8
12	5779	61.81	2.95		
13	5010	53.58	3.41		
15	4457	47.67	3.83		
18	3842	41.09	4.45		
3.5	18994	270.86	0.90		
4.4	15456	220.41	1.10		
5.3	12656	180.48	1.35		
5.8	11574	165.05	1.47		
6.7	10071	143.62	1.69		
7.6	8888	126.74	1.92	TFA 158	6
8.7	7705	109.88	2.21	TFAF158	6
9.8	6855	97.76	2.49	TF 158	6
11	6172	88.01	2.77	TFF 158	6
12	5644	80.49	3.02		
14	4912	70.04	3.48		
16	4334	61.81	3.94		
18	3757	53.58	4.55		
5.7	11815	126.36	0.96	TFA 128	8
6.2	10775	115.24	1.05	TFAF128	8
7.2	9325	99.73	1.22	TF 128	8
8.2	8228	88.00	1.38	TFF 128	8
5.6	12074	172.17	0.94	TFA 128	6
6.2	10861	154.88	1.04	TFAF128	6
7.6	8861	126.36	1.28	TF 128	6
8.3	8081	115.24	1.41	TFF 128	6
8.5	7939	172.17	1.43	TFA 128	4
9.4	7142	154.88	1.59	TFAF128	4
12	5826	126.36	1.95	TF 128	4
				TFF 128	4
8.2	8237	178.64	0.88		
9.1	7437	161.28	0.98		
10	6755	146.49	1.08	TFA 108	4
11	5993	129.97	1.21	TFAF108	4
12	5438	117.94	1.34	TF 108	4
14	4675	101.38	1.56	TFF 108	4
16	4264	92.47	1.71		
16	4080	88.49	1.78		
17	3873	83.99	1.88		
20	3436	74.52	2.12		
22	3118	67.62	2.33		
15	4546	98.58	0.89		
16	4185	90.77	0.97		
17	4014	87.06	1.01	TFA 98	4
18	3741	81.13	1.09	TFAF98	4
19	3506	76.04	1.16	TF 98	4
20	3367	73.03	1.21	TFF 98	4
22	3050	66.14	1.33		
25	2704	58.65	1.51		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
7.5kW					
28	2445	53.03	1.67		
32	2072	44.94	1.97	TFA 98	4
37	1810	39.26	2.25	TFAF98	4
43	1613	34.26	2.53	TF 98	4
44	1514	32.83	2.69	TFF 98	4
48	1446	30.70	2.82		
26	2617	56.75	1.08		
29	2319	50.29	1.20		
32	2085	45.22	1.28		
37	1810	39.25	1.42		
42	1620	35.14	1.53	TFA 88	4
50	1345	29.16	1.77	TFAF88	4
55	1248	26.50	2.28	TF 88	4
62	1115	23.68	2.55	TFF 88	4
68	1004	21.32	2.83		
76	909	19.31	3.13		
85	806	17.12	3.53		
94	729	15.48	3.90		
43	1551	33.64	0.91		
49	1375	29.82	1.03		
57	1174	25.47	1.17		
68	1009	21.43	1.41		
74	928	19.70	1.53		
83	824	17.49	1.72		
93	737	15.64	1.93	TFA 78	4
104	662	14.06	2.15	TFAF78	4
120	575	12.21	2.47	TF 78	4
134	515	10.93	2.76	TFF 78	4
157	438	9.30	2.34		
177	389	8.26	2.63		
198	348	7.38	2.94		
220	313	6.64	3.27		
253	271	5.76	3.78		
283	243	5.16	4.22		
341	202	4.28	4.75		
11kW					
4.8	20041	302	0.85		
4.9	19250	296	0.88	TFA 158R98	4
5.2	18209	280	0.93	TFAF158R98	4
6.1	15478	238	1.10	TF 158R98	4
7.0	13527	208	1.26	TFF 158R98	4
7.3	13071	201	1.30		
6.5	14632	225	0.77	TFA 128R88	4
7.3	12941	199	0.88	TFAF128R88	4
8.7	10860	167	1.04	TF 128R88	4
				TFF 128R88	4
7.6	12938	191.32	3.87	TFA 178	4
8.7	11341	167.70	4.41	TFAF178	4
				TF 178	4
				TFF 178	4
8	12408	183.22	2.58	TFA 168	4
9.7	10182	150.35	3.14	TFAF168	4
12	8284	122.32	3.86	TF 168	4
				TFF 168	4

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
11kW					
5.1	19425	143.62	0.88	TFA 158	8
5.8	17142	126.74	0.99	TFAF158	8
6.6	14862	109.88	1.15	TF 158	8
7.5	13223	97.76	1.29	TFF 158	8
5.3	18562	180.48	0.92		
5.8	16976	165.05	1.00		
6.7	14771	143.62	1.15	TFA 158	6
7.6	13035	126.74	1.31	TFAF158	6
8.7	11301	109.88	1.51	TF 158	6
9.8	10055	97.76	1.70	TFF 158	6
11	9052	88.01	1.88		
12	8278	80.49	2.06		
5.4	18318	270.86	0.93		
6.6	14906	220.41	1.14		
8.1	12205	180.48	1.40		
8.8	11162	165.05	1.53		
10	9713	143.62	1.76	TFA 158	4
12	8571	126.74	1.99	TFAF158	4
13	7431	109.88	2.30	TF 158	4
15	6611	97.76	2.58	TFF 158	4
17	5952	88.01	2.87		
18	5443	80.49	3.14		
21	4737	70.04	3.60		
7.6	12996	126.36	0.87		
8.3	11853	115.24	0.96	TFA 128	6
9.6	10257	99.73	1.11	TFAF128	6
11	9051	88.00	1.25	TF 128	6
13	7817	76.00	1.45	TFF 128	6
8.5	11643	172.17	0.97		
9.4	10474	154.88	1.08		
12	8545	126.36	1.33	TFA 128	4
13	7793	115.24	1.46	TFAF128	4
15	6745	99.73	1.69	TF 128	4
17	5951	88.00	1.91	TFF 128	4
19	5140	76.00	2.21		
12	7976	117.94	0.91		
14	6856	101.38	1.06		
16	6254	92.47	1.16		
16	5984	88.49	1.21		
17	5680	83.99	1.28		
20	5040	74.52	1.44	TFA 108	4
22	4573	67.62	1.59	TFAF108	4
25	3931	58.12	1.85	TF 108	4
29	3431	50.73	2.12	TFF 108	4
34	2910	43.03	2.50		
39	2543	37.61	2.86		
46	2151	31.80	3.39		
53	1904	27.57	3.91		
58	1736	25.14	4.29		
22	4473	66.14	0.91		
25	3966	58.65	1.03		
28	3586	53.03	1.13		
32	3039	44.94	1.34		
37	2655	39.26	1.53	TFA 98	4
43	2366	34.26	1.72	TFAF98	4
44	2220	32.83	1.84	TF 98	4
48	2120	30.70	1.92	TFF 98	4
53	1915	27.72	2.13		
58	1739	25.18	2.34		
65	1543	22.34	2.64		

选型参数表
Selection Table

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
11kW					
37	2654	39.25	0.97		
42	2376	35.14	1.04		
50	1972	29.16	1.20		
55	1830	26.50	1.55	TFA 88	4
62	1636	23.68	1.74	TFAF88	4
68	1473	21.32	1.93	TF 88	4
76	1334	19.31	2.13	TFF 88	4
85	1182	17.12	2.41		
94	1069	15.48	2.66		
111	906	13.12	3.14		
74	1361	19.70	1.04		
83	1208	17.49	1.17		
93	1080	15.64	1.31		
104	971	14.06	1.46		
120	843	12.21	1.69	TFA 78	4
134	755	10.93	1.88	TFAF78	4
157	642	9.30	1.59	TF 78	4
177	570	8.26	1.80	TFF 78	4
198	510	7.38	2.01		
220	459	6.64	2.23		
253	398	5.76	2.57		
283	356	5.16	2.88		
341	296	4.28	3.24		
15kW					
6.1	21106	238	0.81	TFA 158R98	4
7.0	18445	208	0.92	TFAF158R98	4
7.3	17825	201	0.95	TF 158R98	4
				TFF 158R98	4
7.6	17642	191.32	2.83		
8.7	15465	167.70	3.23	TFA 178	4
9.8	13775	149.37	3.62	TFAF178	4
10	13322	144.48	3.75	TF 178	4
11	12079	131.02	4.13	TFF 178	4
11	11872	128.69	4.21		
8	16920	183.22	1.89		
9.7	13884	150.35	2.3	TFA 168	4
12	11296	122.32	2.83	TFAF168	4
15	9037	97.86	3.54	TF 168	4
17	8037	87.03	3.98	TFF 168	4
6.8	19935	143.62	0.85		
7.7	17592	126.74	0.97	TFA 158	6
8.8	15252	109.88	1.12	TFAF158	6
9.9	13570	97.76	1.26	TF 158	6
11	12216	88.01	1.39	TFF 158	6
6.6	20326	220.41	0.84		
8.1	16644	180.48	1.02		
8.8	15221	165.05	1.12		
10	13245	143.62	1.29		
12	11688	126.74	1.46	TFA 158	4
13	10133	109.88	1.68	TFAF158	4
15	9015	97.76	1.89	TF 158	4
17	8116	88.01	2.10	TFF 158	4
18	7423	80.49	2.30		
21	6459	70.04	2.64		
24	5700	61.81	3.00		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
15kW					
9.7	13843	99.73	0.82	TFA 128	6
11	12215	88.00	0.93	TFAF128	6
13	10549	76.00	1.08	TF 128	6
14	9802	70.62	1.16	TFF 128	6
15	8940	64.41	1.27		
12	11653	126.36	0.97		
13	10627	115.24	1.07	TFA 128	4
15	9197	99.73	1.23	TFAF128	4
17	8115	88.00	1.40	TF 128	4
19	7009	76.00	1.62	TFF 128	4
21	6513	70.62	1.75		
23	5940	64.41	1.91		
16	8528	92.47	0.85		
16	8161	88.49	0.89		
17	7746	83.99	0.94		
20	6872	74.52	1.06		
22	6236	67.62	1.16	TFA 108	4
25	5360	58.12	1.36	TFAF108	4
29	4678	50.73	1.55	TF 108	4
34	3968	43.03	1.83	TFF 108	4
39	3468	37.61	2.10		
46	2933	31.80	2.48		
53	2597	27.57	2.86		
58	2368	25.14	3.14		
67	2049	21.76	3.63		
32	4144	44.94	0.98		
37	3621	39.26	1.12		
43	3227	34.26	1.26		
44	3028	32.83	1.34		
48	2891	30.70	1.41	TFA 98	4
53	2611	27.72	1.56	TFAF98	4
58	2372	25.18	1.72	TF 98	4
65	2104	22.34	1.94	TFF 98	4
72	1909	20.27	2.13		
84	1641	17.42	2.48		
96	1433	15.21	2.85		
113	1215	12.90	3.36		
129	1062	11.28	3.66		
55	2496	26.50	1.14		
62	2230	23.68	1.27		
68	2008	21.32	1.41		
76	1819	19.31	1.56		
85	1612	17.12	1.76		
94	1458	15.48	1.95		
111	1236	13.12	2.30	TFA 88	4
127	1079	11.46	2.64	TFAF88	4
152	902	9.58	3.03	TF 88	4
176	781	8.29	1.86	TFF 88	4
199	692	7.35	2.10		
220	626	6.65	2.32		
259	530	5.63	2.74		
297	463	4.92	3.13		
354	388	4.12	3.57		
18.5kW					
7.3	21834	201	0.78	TFA 158R98	4
				TFAF158R98	4
				TF 158R98	4
				TFF 158R98	4

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
18.5kW					
7.6	21880	191.32	2.29		
8.7	19113	167.70	2.62		
9.8	16968	149.37	2.95	TFA 178	4
10	16455	144.48	3.04	TFAF178	4
11	14922	131.02	3.35	TF 178	4
11	14657	128.69	3.41	TFF 178	4
12	13402	117.67	3.73		
13	12856	112.88	3.89		
14	11546	101.38	4.33		
8	20868	183.22	1.53		
9.7	17124	150.35	1.87	TFA 168	4
12	13932	122.32	2.3	TFAF168	4
15	11146	97.86	2.87	TF 168	4
17	9912	87.03	3.23	TFF 168	4
19	8635	75.82	3.71		
8.1	20388	180.48	0.83		
8.9	18645	165.05	0.91		
10	16224	143.62	1.05		
12	14317	126.74	1.19		
13	12412	109.88	1.37		
15	11043	97.76	1.54		
17	9942	88.01	1.71		
18	9092	80.49	1.88	TFA 158	4
21	7912	70.04	2.16	TFAF158	4
24	6982	61.81	2.44	TF 158	4
27	6053	53.58	2.82	TFF 158	4
31	5385	47.67	3.17		
33	5134	44.50	1.85		
36	4642	41.09	3.68		
41	4177	36.21	2.50		
44	3772	33.39	4.53		
51	3342	28.97	4.83		
13	13018	115.24	0.87		
15	11266	99.73	1.01		
17	9941	88.00	1.14	TFA 128	4
19	8585	76.00	1.32	TFAF128	4
21	7978	70.62	1.42	TF 128	4
23	7276	64.41	1.56	TFF 128	4
26	6297	55.74	1.81		
30	5557	49.19	2.05		
20	8418	74.52	0.86		
22	7639	67.62	0.95		
25	6565	58.12	1.11		
29	5731	50.73	1.27	TFA 108	4
34	4861	43.03	1.50	TFAF108	4
39	4249	37.61	1.71	TF 108	4
46	3592	31.80	2.03	TFF 108	4
53	3181	27.57	2.34		
58	2900	25.14	2.56		
68	2510	21.76	2.96		
37	4435	39.26	0.92		
45	3709	32.83	1.10		
53	3198	27.72	1.27		
58	2905	25.18	1.40	TFA 98	4
66	2577	22.34	1.58	TFAF98	4
73	2338	20.27	1.74	TF 98	4
84	2010	17.42	2.03	TFF 98	4
97	1755	15.21	2.32		
114	1488	12.90	2.74		
130	1301	11.28	2.99		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
18.5kW					
69	2460	21.32	1.15		
76	2228	19.31	1.27		
86	1975	17.12	1.44		
95	1786	15.48	1.59		
112	1514	13.12	1.88		
128	1322	11.46	2.15	TFA 88	4
153	1105	9.58	2.47	TFAF88	4
177	956	8.29	1.52	TF 88	4
200	848	7.35	1.71	TFF 88	4
221	767	6.65	1.89		
261	650	5.63	2.23		
299	568	4.92	2.55		
357	475	4.12	2.92		
22kW					
7.7	25681	191.32	1.95		
8.8	22471	167.70	2.23		
9.8	20178	149.37	2.48		
10	19435	144.48	2.57	TFA 178	4
11	17624	131.02	2.84	TFAF178	4
11	17311	128.69	2.89	TF 178	4
12	15829	117.67	3.16	TFF 178	4
13	15184	112.88	3.29		
15	13637	101.38	3.67		
16	12218	90.83	4.09		
17	11459	85.19	4.36		
8	24816	183.22	1.29		
9.7	20363	150.35	1.57		
12	16568	122.32	1.93	TFA 168	4
15	13254	97.86	2.41	TFAF168	4
17	11787	87.03	2.71	TF 168	4
19	10269	75.82	3.12	TFF 168	4
22	9162	67.65	3.49		
9.9	19902	97.76	0.85	TFA 158	6
11	17917	88.01	0.95	TFAF158	6
12	16386	80.49	1.04	TF 158	6
14	14259	70.04	1.19	TFF 158	6
10	19293	143.62	0.88		
12	17026	126.74	1.00		
13	14761	109.88	1.15		
15	13133	97.76	1.30		
17	11823	88.01	1.44		
18	10813	80.49	1.58	TFA 158	4
21	9409	70.04	1.81	TFAF158	4
24	8303	61.81	2.05	TF 158	4
27	7198	53.58	2.37	TFF 158	4
31	6404	47.67	2.67		
36	5520	41.09	3.09		
41	4968	36.21	2.10		
44	4485	33.39	3.81		
15	13397	99.73	0.85		
17	11822	88.00	0.96		
19	10210	76.00	1.11	TFA 128	4
21	9487	70.62	1.20	TFAF128	4
23	8653	64.41	1.31	TF 128	4
26	7488	55.74	1.52	TFF 128	4
30	6608	49.19	1.72		
35	5707	42.48	1.99		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
22kW					
25	7808	58.12	0.93		
29	6815	50.73	1.07		
34	5780	43.03	1.26	TFA 108	4
39	5052	37.61	1.44	TFAF108	4
46	4272	31.80	1.70	TF 108	4
53	3782	27.57	1.96	TFF 108	4
58	3449	25.14	2.15		
68	2985	21.76	2.49		
77	2634	19.20	2.82		
53	3803	27.72	1.07		
58	3455	25.18	1.18		
66	3065	22.34	1.33	TFA 98	4
73	2781	20.27	1.46	TFAF98	4
84	2390	17.42	1.70	TF 98	4
97	2087	15.21	1.95	TFF 98	4
114	1770	12.90	2.30		
130	1548	11.28	2.51		
69	2925	21.32	0.97		
76	2649	19.31	1.07		
86	2349	17.12	1.21		
95	2124	15.48	1.34	TFA 88	4
112	1800	13.12	1.58	TFAF88	4
128	1572	11.46	1.81	TF 88	4
153	1314	9.58	2.08	TFF 88	4
177	1137	8.29	1.27		
200	1008	7.35	1.44		
221	912	6.65	1.59		
261	772	5.63	1.88		
299	675	4.92	2.15		
357	565	4.12	2.45		
30kW					
7.7	35020	191.32	1.43		
8.8	30642	167.70	1.63		
9.8	27515	149.37	1.82		
10	26503	144.48	1.89		
11	24033	131.02	2.08	TFA 178	4
11	23606	128.69	2.12	TFAF178	4
12	21585	117.67	2.32	TF 178	4
13	20705	112.88	2.41	TFF 178	4
15	18597	101.38	2.69		
16	16661	90.83	3.00		
17	15626	85.19	3.20		
18	14604	79.61	3.42		
20	13463	73.39	3.71		
9.7	27768	150.35	1.15		
12	22592	122.32	1.42		
15	18074	97.86	1.77	TFA 168	4
17	16074	87.03	1.99	TFAF168	4
19	14003	75.82	2.29	TF 168	4
22	12494	67.65	2.56	TFF 168	4
25	10650	57.66	3		
28	9550	51.71	3.35		
13	20128	109.88	0.84		
15	17908	97.76	0.95		
17	16122	88.01	1.06		
18	14745	80.49	1.15	TFA 158	4
21	12830	70.04	1.33	TFAF158	4
24	11323	61.81	1.51	TF 158	4
27	9815	53.58	1.74	TFF 158	4
31	8732	47.67	1.95		
36	7527	41.09	2.27		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
30kW					
19	13922	76.00	0.81		
21	12937	70.62	0.88		
23	11799	64.41	0.96		
26	10211	55.74	1.11	TFA 128	4
30	9011	49.19	1.26	TFAF128	4
35	7782	42.48	1.46	TF 128	4
39	6882	37.57	1.65	TFF 128	4
47	5785	31.58	1.97		
58	4671	25.50	2.44		
68	4032	21.55	2.82		
77	3556	19.01	2.93		
34	7882	43.03	0.92		
39	6890	37.61	1.05		
46	5825	31.80	1.25		
53	5158	27.57	1.44	TFA 108	4
58	4703	25.14	1.58	TFAF108	4
68	4071	21.76	1.82	TF 108	4
77	3592	19.20	2.07	TFF 108	4
89	3102	16.58	2.40		
100	2744	14.67	2.65		
119	2307	12.33	2.88		
148	1863	9.96	3.31		
66	4179	22.34	0.97		
73	3792	20.27	1.07		
84	3259	17.42	1.25		
97	2846	15.21	1.43	TFA 98	4
114	2413	12.90	1.69	TFAF98	4
130	2110	11.28	1.84	TF 98	4
162	1695	9.06	1.32	TFF 98	4
179	1538	8.22	1.45		
208	1323	7.07	1.69		
238	1154	6.17	1.85		
281	978	5.23	2.08		
322	855	4.57	2.27		
37kW					
7.7	43191	191.32	1.16		
8.8	37792	167.70	1.32		
9.9	33593	149.37	1.49		
10	32466	144.48	1.54	TFA 178	4
11	29440	131.02	1.70	TFAF178	4
12	28918	128.69	1.73	TF 178	4
13	26442	117.67	1.89	TFF 178	4
13	25364	112.88	1.97		
15	22781	101.38	2.19		
16	20410	90.83	2.45		
17	19142	85.19	2.61		
19	17890	79.61	2.79		
20	16492	73.39	3.03		
12	27864	122.32	1.15		
15	22291	97.86	1.44		
17	19824	87.03	1.61		
19	17271	75.82	1.85		
22	15410	67.65	2.08	TFA 168	4
25	13134	57.66	2.44	TFAF168	4
28	11778	51.71	2.72	TF 168	4
31	10883	47.78	2.94	TFF 168	4
32	10474	45.98	3.06		
36	9288	40.77	3.45		

选型参数表
Selection Table

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
37kW					
17	19750	88.01	0.86		
18	18062	80.49	0.94		
21	15717	70.04	1.08		
24	13870	61.81	1.23	TFA 158	4
28	12023	53.58	1.42	TFAF158	4
31	10697	47.67	1.59	TF 158	4
36	9221	41.09	1.85	TFF 158	4
41	8298	36.21	1.25		
44	7493	33.39	2.28		
51	6639	28.97	2.43		
52	6355	28.32	2.69		
27	12508	55.74	0.91		
30	11038	49.19	1.03		
35	9533	42.48	1.19		
39	8431	37.57	1.35		
47	7087	31.58	1.60		
58	5722	25.50	1.99	TFA 128	4
69	4939	21.55	2.30	TFAF128	4
78	4357	19.01	2.39	TF 128	4
90	3777	16.48	2.76	TFF 128	4
101	3362	14.67	3.10		
117	2897	12.64	3.27		
144	2354	10.27	3.83		
167	2030	8.86	3.27		
188	1806	7.88	3.15		
54	6318	27.57	1.17		
59	5761	25.14	1.29		
68	4987	21.76	1.49		
77	4400	19.20	1.69		
89	3800	16.58	1.96	TFA 108	4
101	3362	14.67	2.17	TFAF108	4
120	2826	12.33	2.35	TF 108	4
149	2283	9.96	2.70	TFF 108	4
153	2221	9.69	2.10		
177	1918	8.37	2.37		
200	1696	7.40	2.57		
238	1425	6.22	3.06		
45kW					
10	39486	144.48	1.27		
11	35806	131.02	1.40		
12	35170	128.69	1.42		
13	32159	117.67	1.55	TFA 178	4
13	30848	112.88	1.62	TFAF178	4
15	27706	101.38	1.80	TF 178	4
16	24823	90.83	2.01	TFF 178	4
17	23281	85.19	2.15		
19	21758	79.61	2.30		
20	20058	73.39	2.49		
15	27111	97.86	1.18		
17	24110	87.03	1.33		
19	21005	75.82	1.52		
22	18741	67.65	1.71	TFA 168	4
25	15974	57.66	2	TFAF168	4
28	14324	51.71	2.23	TF 168	4
31	13236	47.78	2.42	TFF 168	4
32	12739	45.98	2.51		
36	11296	40.77	2.83		
41	9902	35.74	3.23		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
45kW					
21	19115	70.04	0.89		
24	16869	61.81	1.01		
28	14623	53.58	1.16	TFA 158	4
31	13010	47.67	1.31	TFAF158	4
36	11214	41.09	1.52	TF 158	4
41	10093	36.21	1.03	TFF 158	4
44	9113	33.39	1.87		
51	8075	28.97	2.00		
52	7729	28.32	2.21		
30	13425	49.19	0.84		
35	11594	42.48	0.98		
39	10254	37.57	1.11		
47	8619	31.58	1.32		
58	6959	25.50	1.63		
69	6007	21.55	1.89	TFA 128	4
78	5299	19.01	1.97	TFAF128	4
90	4593	16.48	2.27	TF 128	4
101	4089	14.67	2.55	TFF 128	4
117	3523	12.64	2.69		
144	2863	10.27	3.15		
167	2470	8.86	2.69		
188	2196	7.88	2.59		
218	1895	6.80	3.50		
268	1539	5.52	3.70		
54	7685	27.57	0.96		
59	7007	25.14	1.06		
68	6065	21.76	1.22		
77	5352	19.20	1.39		
89	4621	16.58	1.61	TFA 108	4
101	4089	14.67	1.78	TFAF108	4
120	3437	12.33	1.93	TF 108	4
149	2776	9.96	2.22	TFF 108	4
153	2701	9.69	1.72		
177	2333	8.37	1.95		
200	2063	7.40	2.11		
238	1734	6.22	2.52		
55kW					
11	43763	131.02	1.14		
12	42986	128.69	1.16		
13	39306	117.67	1.27		
13	37703	112.88	1.33		
15	33863	101.38	1.48	TFA 178	4
16	30339	90.83	1.65	TFAF178	4
17	28455	85.19	1.76	TF 178	4
19	26593	79.61	1.88	TFF 178	4
20	24515	73.39	2.04		
22	22911	68.59	2.18		
23	21226	63.54	2.36		
26	18660	55.86	2.68		
31	16076	48.13	3.11		
17	29468	87.03	1.09		
19	25673	75.82	1.25		
22	22906	67.65	1.4		
25	19524	57.66	1.64		
28	17508	51.71	1.83	TFA 168	4
31	16177	47.78	1.98	TFAF168	4
32	15570	45.98	2.06	TF 168	4
36	13806	40.77	2.32	TFF 168	4
41	12103	35.74	2.64		
48	10316	30.47	3.1		
52	9539	28.17	3.35		

选型参数表
Selection Table

55kW

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type	极数 Pole p
24	20618	61.81	0.82	TFA 158	4
28	17873	53.58	0.95	TFAF158	4
31	15901	47.67	1.07	TF 158	4
36	13706	41.09	1.24	TFF 158	4
44	11138	33.39	1.53		
51	9869	28.97	1.63		
52	9447	28.32	1.81		
57	8776	25.76	1.62		
66	7645	22.44	2.23		
74	6820	20.02	2.36		
87	5815	17.07	2.94		
39	12532	37.57	0.90	TFA 128	4
47	10534	31.58	1.08	TFAF128	4
58	8506	25.50	1.34	TF 128	4
69	7341	21.55	1.55	TFF 128	4
78	6476	19.01	1.61		
90	5614	16.48	1.86		
101	4998	14.67	2.09		
117	4306	12.64	2.20		
144	3499	10.27	2.57		
167	3018	8.86	2.20		
188	2684	7.88	2.12		
218	2317	6.80	2.87		
268	1880	5.52	3.03		
316	1594	4.68	3.57		

75kW

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type	极数 Pole p
15	46177	101.38	1.08	TFA 178	4
16	41372	90.83	1.21	TFAF178	4
17	38802	85.19	1.29	TF 178	4
19	36263	79.61	1.38	TFF 178	4
20	33429	73.39	1.50		
22	31242	68.59	1.60		
23	28944	63.54	1.73		
26	25445	55.86	1.97		
31	21922	48.13	2.28		
37	18421	40.44	2.71		
42	15870	34.84	3.15		
22	31235	67.65	1.02	TFA 168	4
25	26624	57.66	1.2	TFAF168	4
28	23874	51.71	1.34	TF 168	4
31	22060	47.78	1.45	TFF 168	4
32	21232	45.98	1.51		
36	18827	40.77	1.7		
41	16504	35.74	1.94		
48	14067	30.47	2.27		
52	13008	28.17	2.46		
58	11656	25.24	2.75		
68	9947	21.54	3.22		
44	15188	33.39	1.12	TFA 158	4
51	13458	28.97	1.20	TFAF158	4
52	12882	28.32	1.32	TF 158	4
57	11967	25.76	1.19	TFF 158	4
66	10424	22.44	1.64		
74	9300	20.02	1.73		
87	7930	17.07	2.15		
105	6569	14.14	2.45		
123	5607	12.07	2.71		
69	10011	21.55	1.13	TFA 128	4
78	8831	19.01	1.18	TFAF128	4
90	7656	16.48	1.36	TF 128	4
101	6815	14.67	1.53	TFF 128	4
117	5872	12.64	1.61		
144	4771	10.27	1.89		
167	4116	8.86	1.61		
188	3661	7.88	1.55		
218	3159	6.80	2.10		
268	2564	5.52	2.22		
316	2174	4.68	2.62		

90kW

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type	极数 Pole p
16	49646	90.83	1.01	TFA 178	4
17	46563	85.19	1.07	TFAF178	4
19	43516	79.61	1.15	TF 178	4
20	40115	73.39	1.25	TFF 178	4
22	37491	68.59	1.33		
23	34733	63.54	1.44		
26	30534	55.86	1.64		
31	26307	48.13	1.90		
37	22105	40.44	2.26		
42	19044	34.84	2.63		
49	16489	30.17	3.03		
59	13741	25.14	3.64		
25	31949	57.66	1	TFA 168	4
28	28649	51.71	1.12	TFAF168	4
31	26472	47.78	1.21	TF 168	4
32	25478	45.98	1.26	TFF 168	4
36	22592	40.77	1.42		
41	19804	35.74	1.62		
48	16881	30.47	1.9		
52	15609	28.17	2.05		
58	13987	25.24	2.29		
68	11937	21.54	2.68		
82	9887	17.84	3.14		
44	18164	33.39	0.94	TFA 158	4
51	16095	28.97	1.00	TFAF158	4
52	15406	28.32	1.10	TF 158	4
58	14312	25.76	0.99	TFF 158	4
66	12467	22.44	1.37		
74	11123	20.02	1.45		
87	9484	17.07	1.80		
105	7856	14.14	2.05		
123	6706	12.07	2.26		
58	13872	25.50	0.82	TFA 128	4
69	11973	21.55	0.95	TFAF128	4
78	10562	19.01	0.98	TF 128	4
90	9156	16.48	1.14	TFF 128	4
101	8150	14.67	1.28		
117	7023	12.64	1.35		
145	5706	10.27	1.58		
168	4922	8.86	1.35		
188	4378	7.88	1.30		
218	3778	6.80	1.76		
269	3067	5.52	1.85		
317	2600	4.68	2.19		

110kW

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type	极数 Pole p
20	49030	73.39	1.02	TFA 178	4
22	45822	68.59	1.09	TFAF178	4
23	42451	63.54	1.18	TF 178	4
26	37320	55.86	1.34	TFF 178	4
31	32152	48.13	1.56		
37	27017	40.44	1.85		
42	23276	34.84	2.15		
49	20153	30.17	2.48		
59	16794	25.14	2.98		
69	14319	21.43	3.49		
83	12172	17.85	3.61		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
110kW					
32	31140	45.98	1.03		
36	27613	40.77	1.16		
41	24205	35.74	1.32		
48	20632	30.47	1.55	TFA 168	4
52	19078	28.17	1.68	TFAF168	4
58	17095	25.24	1.87	TF 168	4
68	14590	21.54	2.19	TFF 168	4
82	12084	17.84	2.57		
103	9821	14.21	2.95		
119	8503	12.3	3.41		
52	18830	28.32	0.90		
66	15238	22.44	1.12	TFA 158	4
74	13594	20.02	1.18	TFAF158	4
87	11591	17.07	1.47	TF 158	4
105	9602	14.14	1.68	TFF 158	4
123	8196	12.07	1.85		
132kW					
26	44784	55.86	1.12		
31	38583	48.13	1.30		
37	32421	40.44	1.54	TFA 178	4
42	27932	34.84	1.79	TFAF178	4
49	24184	30.17	2.07	TF 178	4
59	20153	25.14	2.48	TFF 178	4
69	17183	21.43	2.91		
83	14606	17.85	3.01		
96	12583	15.38	3.49		
112	10816	13.22	3.83		
41	29047	35.74	1.1		
48	24758	30.47	1.29		
52	22893	28.17	1.4	TFA 168	4
58	20514	25.24	1.56	TFAF168	4
68	17508	21.54	1.83	TF 168	4
82	14501	17.84	2.14	TFF 168	4
103	11785	14.21	2.46		
119	10204	12.3	2.84		
142	8503	10.25	3.29		
66	18285	22.44	0.93		
74	16313	20.02	0.99	TFA 158	4
87	13909	17.07	1.22	TFAF158	4
105	11522	14.14	1.40	TF 158	4
123	9835	12.07	1.54	TFF 158	4
160kW					
31	46767	48.13	1.07		
37	39298	40.44	1.27		
42	33857	34.84	1.48		
49	29314	30.17	1.71	TFA 178	4
59	24428	25.14	2.05	TFAF178	4
69	20828	21.43	2.40	TF 178	4
83	17704	17.85	2.48	TFF 178	4
96	15253	15.38	2.88		
112	13110	13.22	3.16		
129	11388	11.41	3.64		

输出转速 Output speed r/min	输出扭矩 Output torque Nm	传动比 Ratio i	服务系数 Service factor f_B	机型号 Type Type	极数 Pole p
160kW					
48	30010	30.47	1.07		
52	27750	28.17	1.15		
58	24865	25.24	1.29	TFA 168	4
68	21221	21.54	1.51	TFAF168	4
82	17577	17.84	1.76	TF 168	4
103	14285	14.21	2.03	TFF 168	4
119	12368	12.3	2.34		
142	10307	10.25	2.72		
167	8788	8.74	3.07		
87	16860	17.07	1.01	TFA 158	4
105	13966	14.14	1.15	TFAF158	4
123	11921	12.07	1.27	TF 158	4
				TFF 158	4
200kW					
37	49122	40.44	1.02		
42	42321	34.84	1.18		
49	36642	30.17	1.36		
59	30535	25.14	1.64	TFA 178	4
69	26035	21.43	1.92	TFAF178	4
83	22130	17.85	1.98	TF 178	4
96	19066	15.38	2.30	TFF 178	4
112	16388	13.22	2.53		
129	14235	11.41	2.91		
152	12035	9.64	3.44		
58	31082	25.24	1.03		
68	26527	21.54	1.21		
82	21971	17.84	1.41	TFA 168	4
103	17856	14.21	1.62	TFAF168	4
119	15460	12.3	1.88	TF 168	4
142	12883	10.25	2.17	TFF 168	4
167	10985	8.74	2.46		
87	21075	17.07	0.81	TFA 158	4
105	17458	14.14	0.92	TFAF158	4
123	14902	12.07	1.01	TF 158	4
				TFF 158	4

Mamax Permissible torque Nm	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type Type	功率 Power kW/4p
200	5.3	261	TFA 38TR18 TFAF38TR18 TF 38TR18 TFF 38TR18	0.18
	6.0	230		
	6.9	201		
	8.2	170		
	8.3	168		0.25
	9.1	153		
	10	133		
	11	129		
400	2.5	566	TFA 48TR18 TFAF48TR18 TF 48TR18 TFF 48TR18	0.18
	2.9	477		
	3.1	445		
	3.6	389		
	4.0	346		
	4.1	337		0.25
	4.6	304		
	4.6	301		
	4.7	293		
	4.9	285		
	6.0	230		
	6.1	227		0.37
	6.4	216		
	7.2	192		
	7.4	188		
	7.9	177		
	8.0	173		
	9.4	148		0.55
	9.5	146		
	11	130		
	11	129		
600	1.6	856	TFA 58TR38 TFAF58TR38 TF 58TR38 TFF 58TR38	0.18
	1.9	739		
	2.1	666		
	2.5	560		0.25
	2.5	549		
	2.7	508		
	2.9	483		
	3.1	453		
	3.3	426		
	3.6	387		
	3.6	382		
	4.2	330		0.37
	4.7	298		
	5.3	262		
	5.5	255		0.55
	6.2	226		
	7.0	200		
	7.2	194		
	7.7	181		
	8.4	166		0.75
	9.1	152		
	10	134		
820	1.2	1135	TFA 68TR38 TFAF68TR38 TF 68TR38 TFF 68TR38	0.18
	1.4	970		
	1.6	865		
	1.6	858		
	1.9	738		
	1.9	722		0.25
	2.2	626		
	2.5	565		
	2.6	527		

Mamax Permissible torque Nm	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type Type	功率 Power kW/4p
820	2.8	497	TFA 68TR38 TFAF68TR38 TF 68TR38 TFF 68TR38	0.37
	3.1	454		
	3.3	427		
	3.5	392		
	3.7	375		
	4.2	333		0.55
	4.2	331		
	4.7	298		
	4.7	297		
	5.3	261		
	5.4	258		
	5.8	238		
	7.0	200		0.75
	7.2	194		
1500	0.69	2024	TFA 78TR38 TFAF78TR38 TF 78TR38 TFF 78TR38	0.18
	0.80	1729		
	0.90	1543		
	1.0	1354		
	1.2	1196		0.25
	1.3	1050		
	1.5	907		0.37
	1.7	810		
	2.0	710		
	2.3	607		0.55
	2.6	525		
	3.0	469		
	3.4	411		0.75
	3.8	366		
	4.5	312		
3000	0.33	4245	TFA 88TR58 TFAF88TR58 TF 88TR58 TFF 88TR58	0.18
	0.37	3721		
	0.43	3244		
	0.48	2881		
	0.54	2575		0.25
	0.63	2200		
	0.72	1930		
	0.81	1710		0.37
	0.93	1493		
	1.1	1272		0.55
	1.2	1130		
	1.4	992		
	1.6	878		
	1.7	800		0.75
	2.0	692		
	2.3	620		1.1
	2.7	514		
	3.1	456		
	4.1	340		1.5
4300	0.21	6535	TFA 98TR58 TFAF98TR58 TF 98TR58 TFF 98TR58	0.18
	0.25	5646		
	0.28	4988		
	0.32	4357		
	0.35	3928		0.25
	0.41	3429		
	0.48	2923		
	0.54	2567		0.37
	0.61	2269		
	0.64	2176		
	0.70	1990		

表上所配功率均有超载,按实际条件确定的转扭不得大于减速机额定转扭.

The power are all overload in the table. The decided torque according to operating condition should not more than gear units' nominal torque.

选型参数表
Selection Table

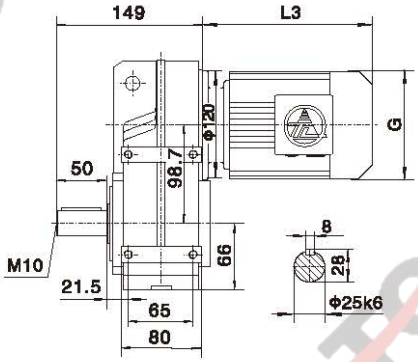
Mamax Permissible torque Nm	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type Type	功率 Power kW/4p
4300	0.80	1740	TFA 98TR58 TFAF98TR58 TF 98TR58 TFF 98TR58	0.55
	0.90	1543		
	1.0	1358		
	1.2	1182		0.75
	1.3	1033		
	1.6	890		1.1
	1.8	789		
	2.0	694		
	2.3	611		1.5
	2.6	534		
	3.0	473		
	3.6	399		2.2
	3.8	376		
	4.9	288		3
	5.7	247		
7680	0.12	11348	TFA 108TR78 TFAF108TR78 TF 108TR78 TFF 108TR78	0.18
	0.14	10073		
	0.16	8649		
	0.18	7674		
	0.21	6650		0.25
	0.24	5716		
	0.27	5225		
	0.30	4567		0.37
	0.40	3479		
	0.46	3038		0.55
	0.50	2757		
	0.59	2370		
	0.67	2068		0.75
	0.76	1826		
	0.88	1597		1.1
	0.99	1418		
	1.1	1245		
	1.3	1087		1.5
	1.5	950		
	1.7	817		2.2
	1.9	736		
	2.2	640		
	2.5	560		3
	2.9	489		
	3.3	436		
	3.9	370		4
	4.3	333		
12000	0.08	16787	TFA 128TR78 TFAF128TR78 TF 128TR78 TFF 128TR78	0.18
	0.09	14839		
	0.11	13013		
	0.12	11766		
	0.14	10271		0.25
	0.16	8901		
	0.18	7714		0.37
	0.21	6768		
	0.23	5972		
	0.27	5077		0.55
	0.31	4479		
	0.36	3869		
	0.41	3404		0.75
	0.47	2954		
	0.52	2694		
	0.59	2376		1.1
	0.68	2054		
	0.78	1797		

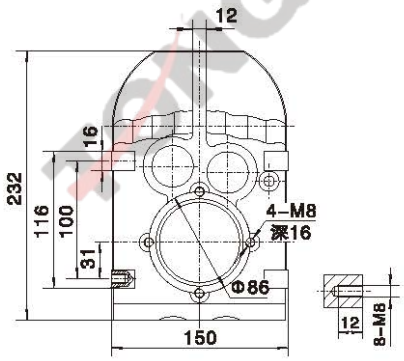
Mamax Permissible torque Nm	输出转速 Output speed r/min	传动比 Ratio i	机型号 Type Type	功率 Power kW/4p
12000	0.86	1619	TFA 128TR78 TFAF128TR78 TF 128TR78 TFF 128TR78	1.5
	1.0	1401		
	1.2	1229		2.2
	1.3	1085		
	1.5	937		
	1.7	827		3
	1.9	733		
	2.2	653		
	2.6	553		4
	2.9	499		
	3.3	432		5.5
	3.8	379		
	3.0	487	TFA 128TR88 TFAF128TR88 TF 128TR88 TFF 128TR88	5.5
	3.4	421		
	3.8	377		
	4.7	313		7.5
	5.1	289		
	5.6	260		
	7.3	199		11
18000	0.04	31837	TFA 158TR98 TFAF158TR98 TF 158TR98 TFF 158TR98	0.55
	0.05	26509		
	0.06	23765		
	0.07	20471		
	0.08	18213		
	0.08	16568		
	0.10	13927		
	0.11	12391		
	0.19	7155		
	0.22	6366		
	0.25	5543		0.75
	0.14	10162		1.1
	0.15	9136		
	0.17	8129		
	0.28	4956		
	0.34	4176		
	0.49	2853		
	0.57	2459		1.5
	0.63	2213		
	0.39	3648		2.2
	0.44	3246		
	0.72	1969		
	0.83	1717		
	0.97	1457		
	1.1	1317		3
	1.2	1198		
	1.5	960		4
	1.7	836		
	1.8	784		
	2.1	697		5.5
	2.4	591		
	2.8	516		7.5
	3.2	452		
	4.8	302		11
	4.9	296		
	5.2	280		
	6.1	238		15
	7.0	208		
	7.3	201		18.5

表上所配功率均有超载,按实际条件确定的转扭不得大于减速机额定转扭. The power are all overload in the table.The decided torque according to operating condition should not more than gear units' nominal torque.

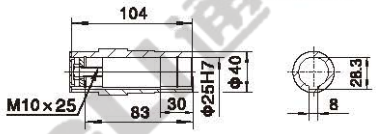
外形安装尺寸
Mounting Dimension Sheets-overview

TF28

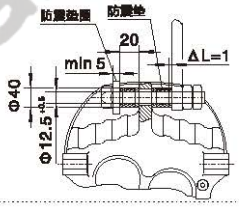




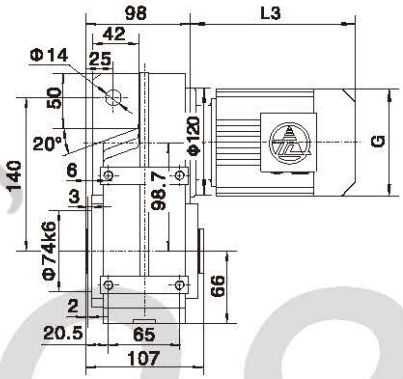
TFA28/TFAF28/TFAT28空心轴 /Hollow shaft



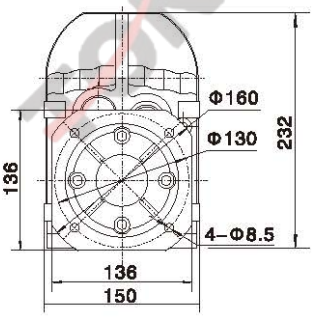
TF..T28

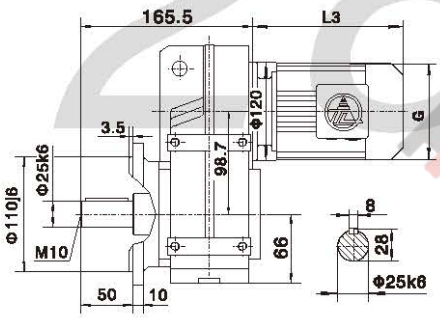


TFA28

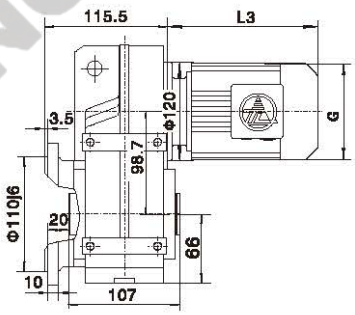


TFF28





TFAF28

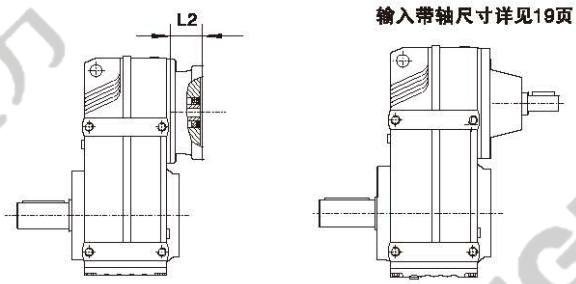


电机需方配或配特殊电机时
需加联接法兰

When equipping the user's motor or the special one,the flange is required to connected.

TF..S28

输入带轴尺寸详见19页



注：其余尺寸见相对应结构形式

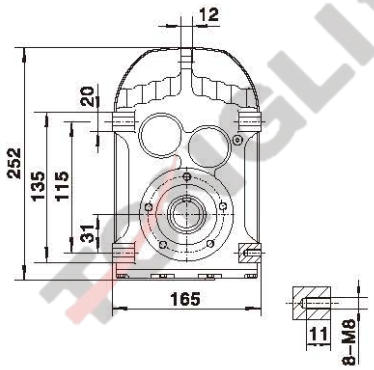
Note:For other values please refer to the opposited structure.

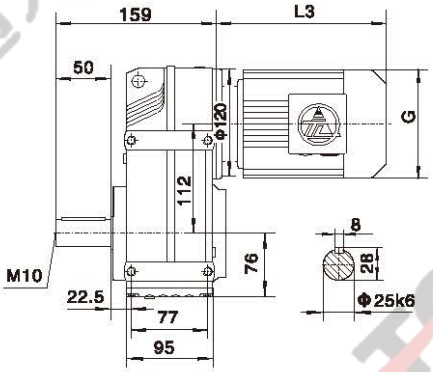
Y2电机机座号 Motor size	63	71	80	90S	90L	100
功率/4P Power/(kW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3
L3	235	250	293	308	333	347
G	130	145	175	195	195	215
L2	56	56	62	62	62	63

注:1.以上壳体为通用件,安装尺寸均可相互参照　2."TF.."表示TF、TFA、TFF、TFAF、TFAZ

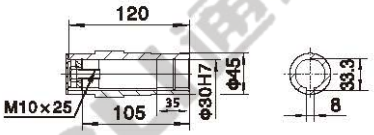
Note:1.The above housings are common parts.The mounting dimensions may consult each other.　2."TF.."mean TF、TFA、TFF、TFAF、TFAZ

TF38

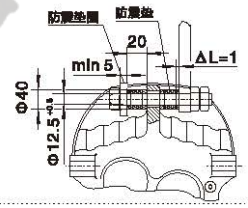


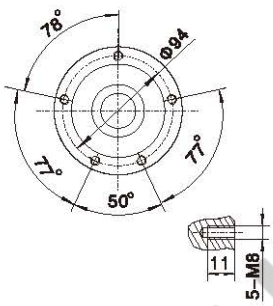


TFA38/TFAF38/TFAZ38空心轴 /Hollow shaft

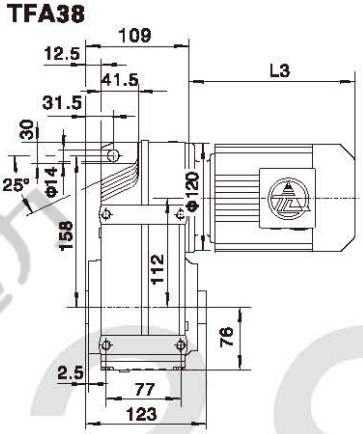


TF..T38

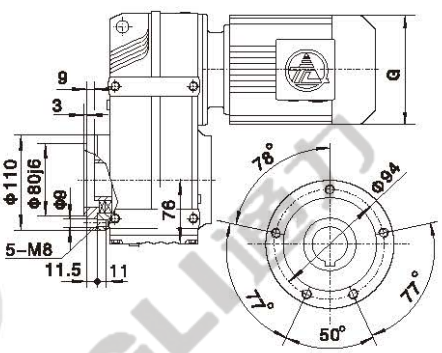


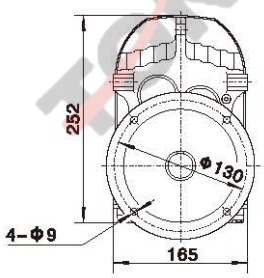


TFA38

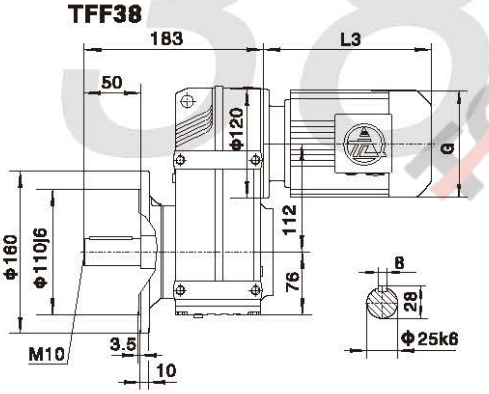


TFAZ38

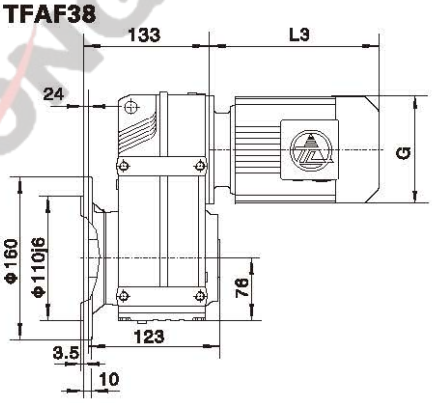




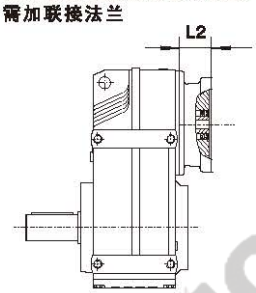
TFF38



TFAF38

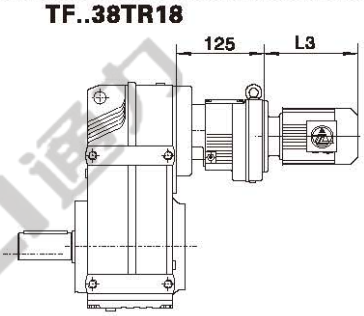


电机需方配或配特殊电机时
需加联接法兰



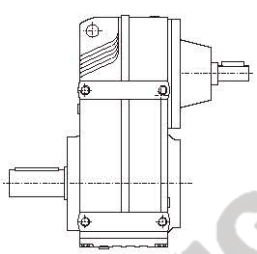
When equipping the user's motor or the special one,the flange is required to connected.

TF..38TR18



TF..S38

输入带轴尺寸详见19页



注：其余尺寸见相对应结构形式

Note:For other values please refer to the opposited structure.

Y2电机机座号 Motor size	63	71		80		90S	90L	100		
功率/4P Power/(kW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	
L3	235	250		293		308	333	347		
G	130	145		175		195	195	215		
L2	56	56		62		62	62	63		

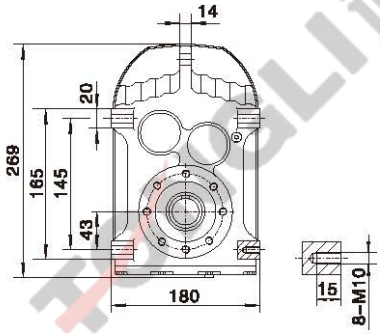
注:1.以上壳体为通用件,安装尺寸均可相互参照　2."TF.."表示TF、TFA、TFF、TFAF、TFAZ　3.带锁紧盘式，详见TK(40–41)页　4、花键轴，详见TK(42–43)

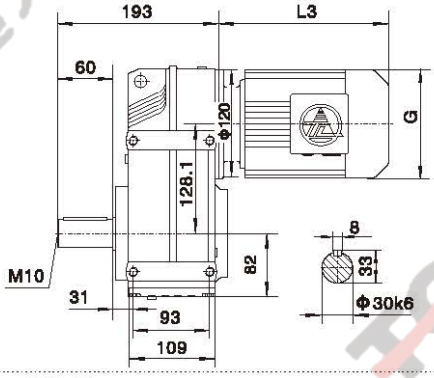
Note:1.The above housings are common parts.The mounting dimensions may consult each other.　2."TF.."mean TF、TFA、TFF、TFAF、TFAZ

3.Hollow shaft output with shrink disk, see P TK(40–41) for detail.

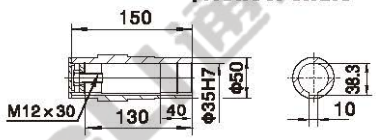
外形安装尺寸
Mounting Dimension Sheets-overview

TF48

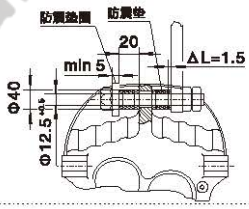




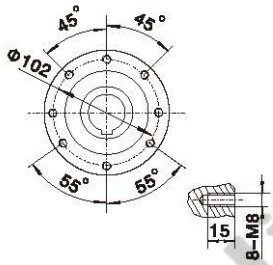
TFA48/TFAF48/TFAZ48空心轴 /Hollow shaft

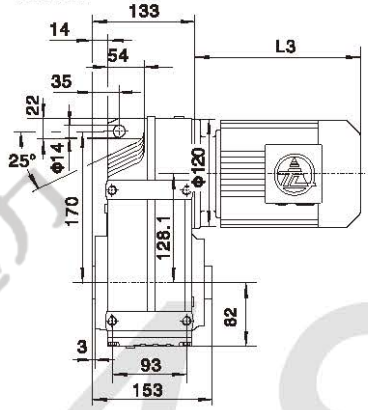


TF..T48

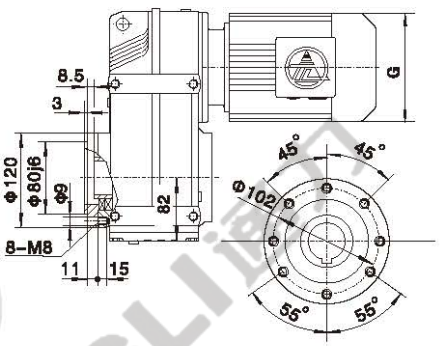


TFA48

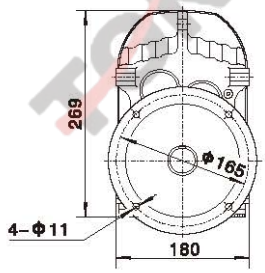


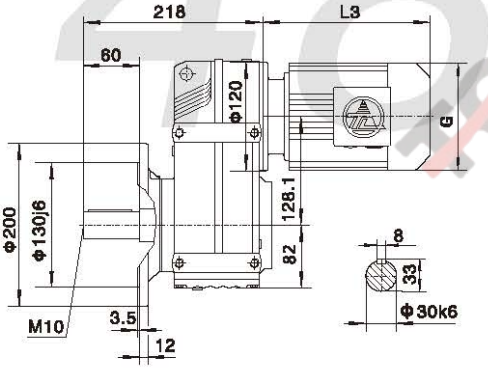


TFAZ48

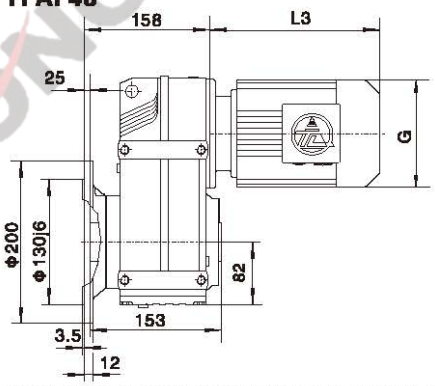


TFF48

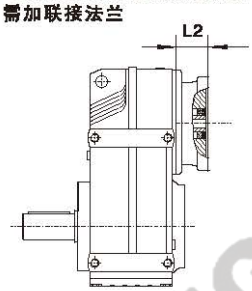




TFAF48

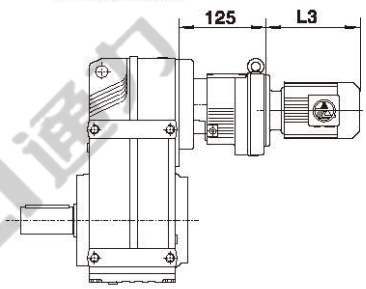


电机需方配或配特殊电机时需加联接法兰



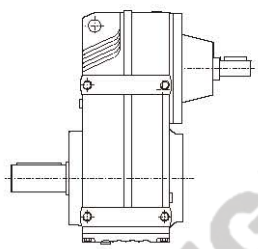
When equipping the user's motor or the special one,the flange is required to connected.

TF..48TR18



TF..S48

输入带轴尺寸详见19页



注：其余尺寸见相对应结构形式

Note:For other values please refer to the opposited structure.

Y2电机机座号 Motor size	63	71		80		90S	90L	100	
功率/4P Power/(kW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3
L3	235	250		293		308	333	347	
G	130	145		175		195	195	215	
L2	56	56		62		62	62	63	

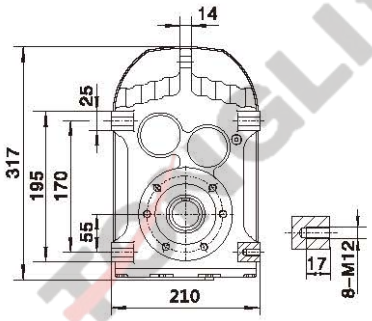
注:1.以上壳体为通用件,安装尺寸均可相互参照 2."TF.."表示TF、TFA、TFF、TFAF、TFAZ 3.带锁紧盘式，详见TK(40-41)页 4、花键轴，详见TK(42-43)

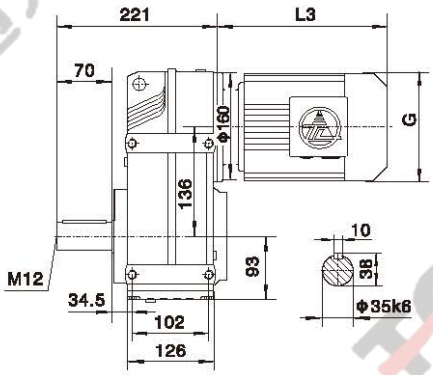
Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2."TF.."mean TF、TFA、TFF、TFAF、TFAZ

3.Hollow shaft output with shrink disk, see P TK(40-41) for detail.

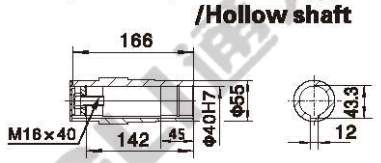
外形安装尺寸
Mounting Dimension Sheets–overview

TF58

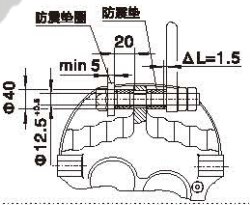




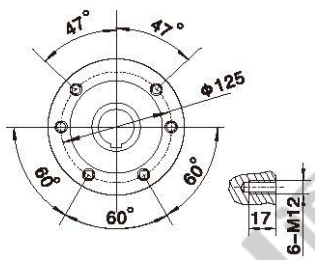
TFA58/TFAF58/TFAZ58空心轴 /Hollow shaft

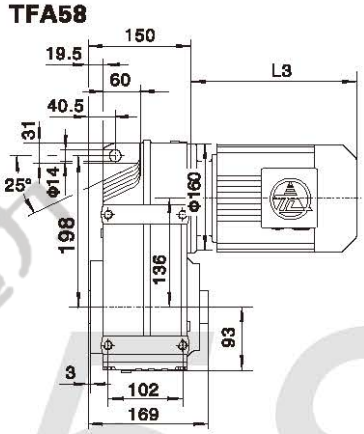


TF..T58

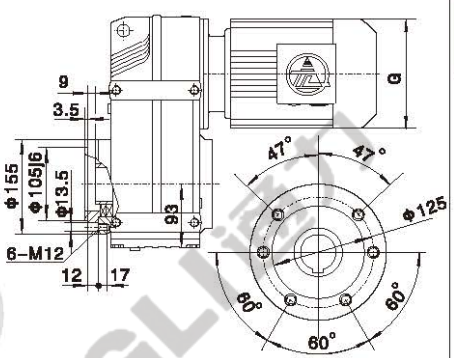


TFA58

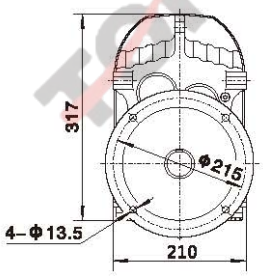


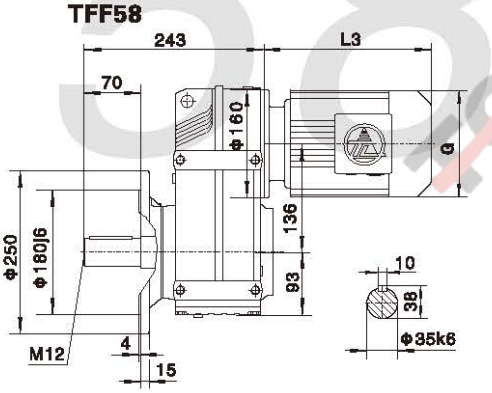


TFAZ58

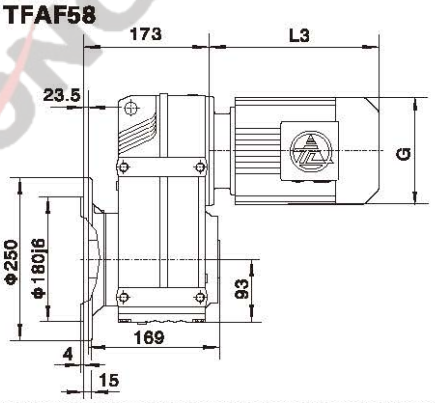


TFF58

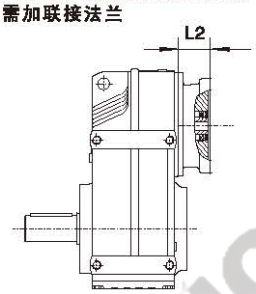




TFAF58

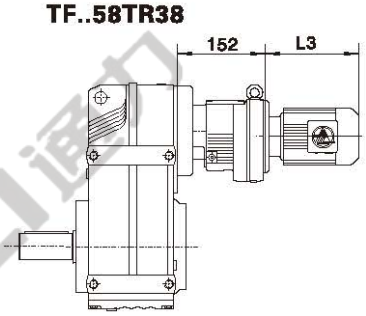


电机需方配或配特殊电机时需加联接法兰



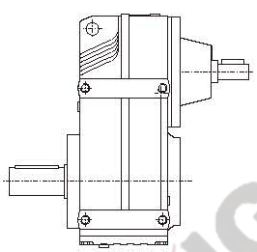
When equipping the user's motor or the special one,the flange is required to connected.

TF..58TR38



TF..S58

输入带轴尺寸详见19页



注：其余尺寸见相对应结构形式

Note:For other values please refer to the o–pposited stru–cture.

Y2电机机座号 Motor size	63	71		80		90S	90L	100		112M	132S
功率/4P Power/(kW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5
L3	223	244		293		304	329	357		383	428
G	130	145		175		195	195	215		240	275
L2	56	57		72		72	72	74		74	82

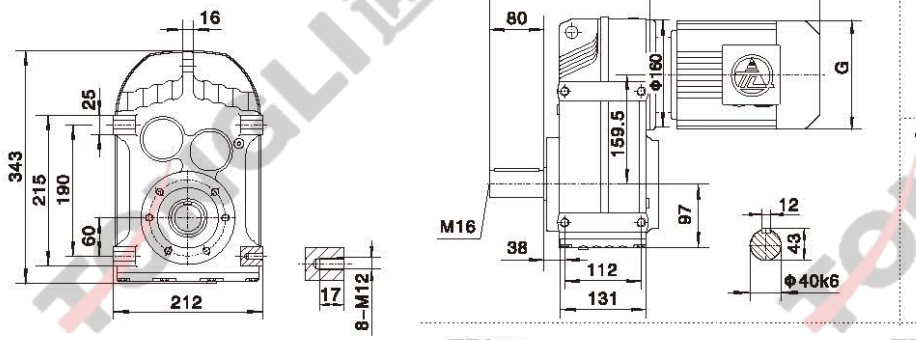
注:1.以上壳体为通用件,安装尺寸均可相互参照　2."TF.."表示TF、TFA、TFF、TFAF、TFAZ　3.带锁紧盘式，详见TK(40–41)页　4、花键轴，详见TK(42–43)

Note:1.The above housings are common parts.The mounting dimensions may consult each other.　2."TF.."mean TF、TFA、TFF、TFAF、TFAZ

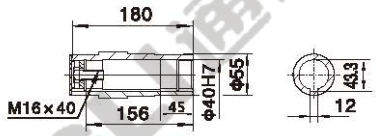
3.Hollow shaft output with shrink disk, see P TK(40–41) for detail.

外形安装尺寸
Mounting Dimension Sheets-overview

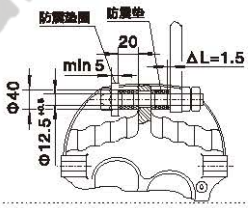
TF68



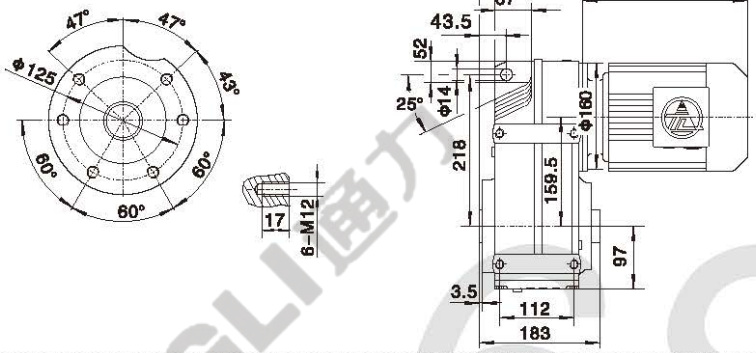
TFA68/TFAF68/TFAZ68空心轴 /Hollow shaft



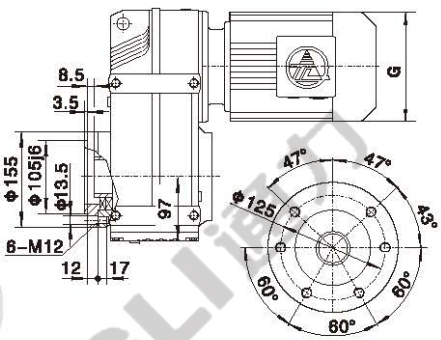
TF..T68



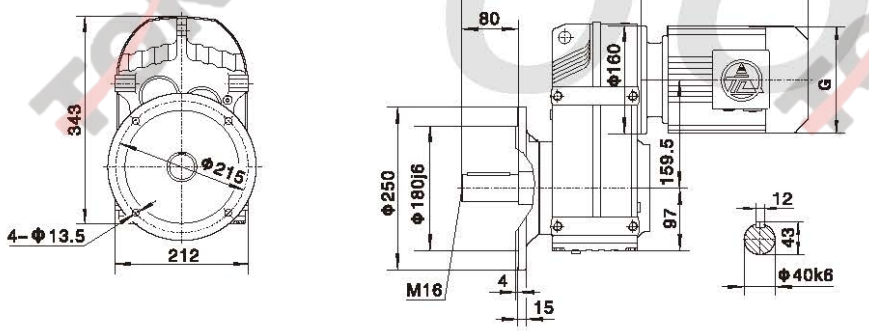
TFA68



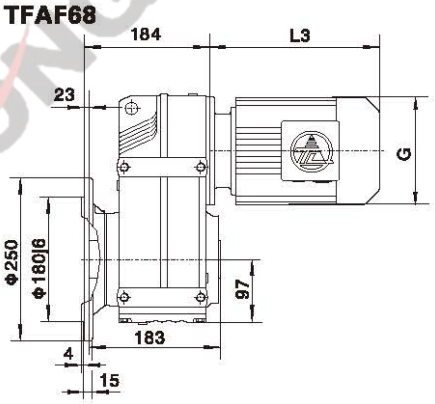
TFAZ68



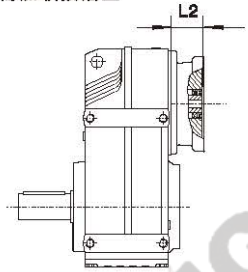
TFF68



TFAF68

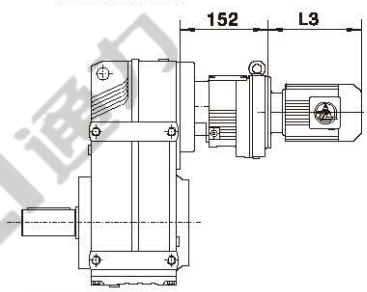


电机需方配或配特殊电机时需加联接法兰



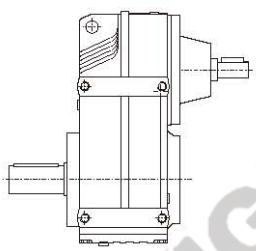
When equipping the user's motor or the special one,the flange is required to connected.

TF..68TR38



TF..S68

输入带轴尺寸详见19页



注：其余尺寸见相对应结构形式

Note:For other values please refer to the opposited structure.

Y2电机机座号 Motor size	63	71		80		90S	90L	100		112M	132S
功率/4P Power/(kW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5
L3	223	244		293		304	329	357		383	428
G	130	145		175		195	195	215		240	275
L2	56	57		72		72	72	74		74	82

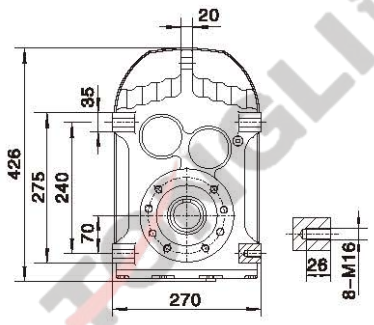
注:1.以上壳体为通用件,安装尺寸均可相互参照　2."TF.."表示TF、TFA、TFF、TFAF、TFAZ　3.带锁紧盘式，详见TK(40-41)页　4、花键轴，详见TK(42-43)

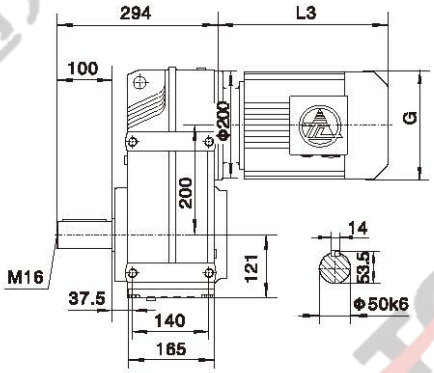
Note:1.The above housings are common parts.The mounting dimensions may consult each other.　2."TF.."mean TF、TFA、TFF、TFAF、TFAZ

3.Hollow shaft output with shrink disk, see P TK(40-41) for detail.

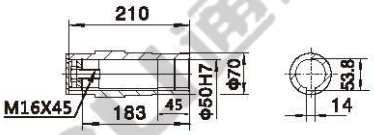
外形安装尺寸
Mounting Dimension Sheets–overview

TF 78

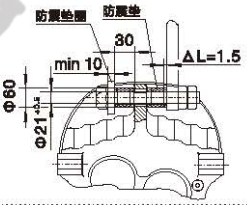




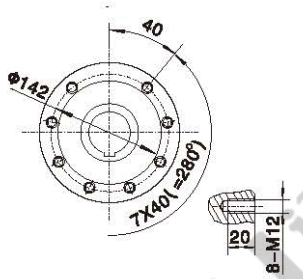
TFA78/TFAF78/TFAZ78空心轴 /Hollow shaft

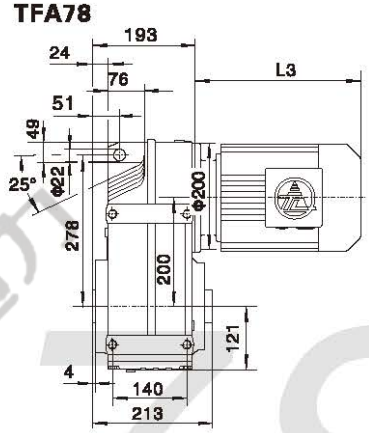


TF..T78

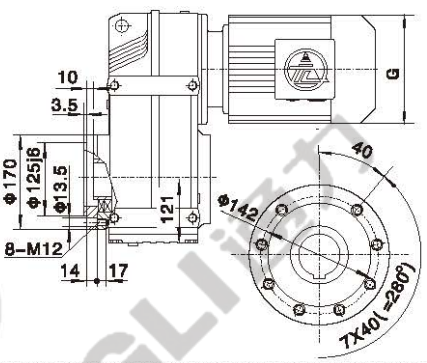


TFA78

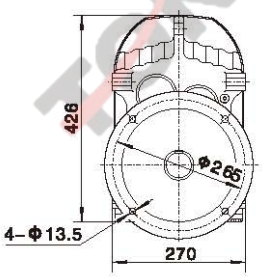


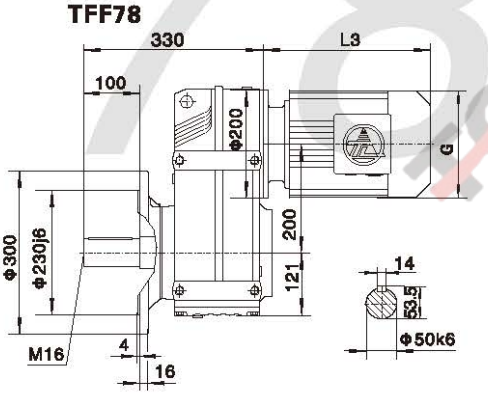


TFAZ78

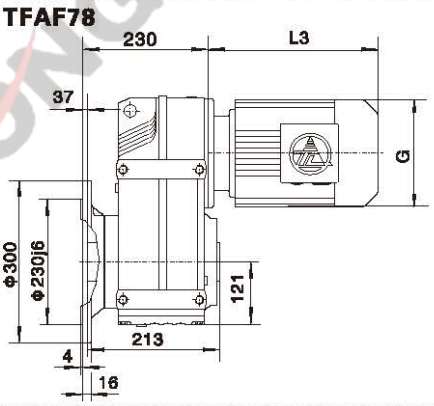


TFF78

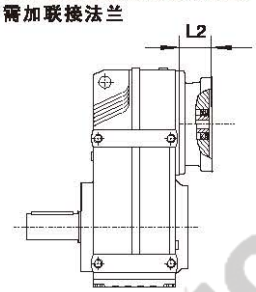




TFAF78

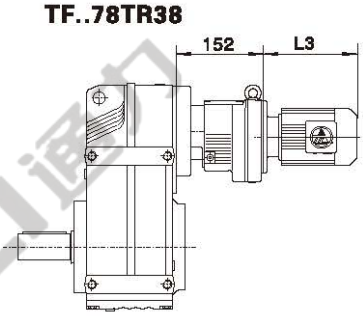


电机需方配或配特殊电机时
需加联接法兰



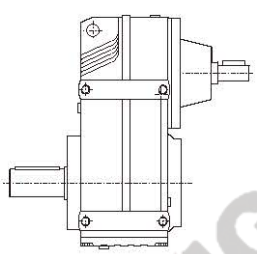
When equipping the user's motor or the special one,the flange is required to connected.

TF..78TR38



TF..S78

输入带轴尺寸详见19页



注：其余尺寸见
相对应结构形式

Note:For other values please refer to the o–pposited stru–cture.

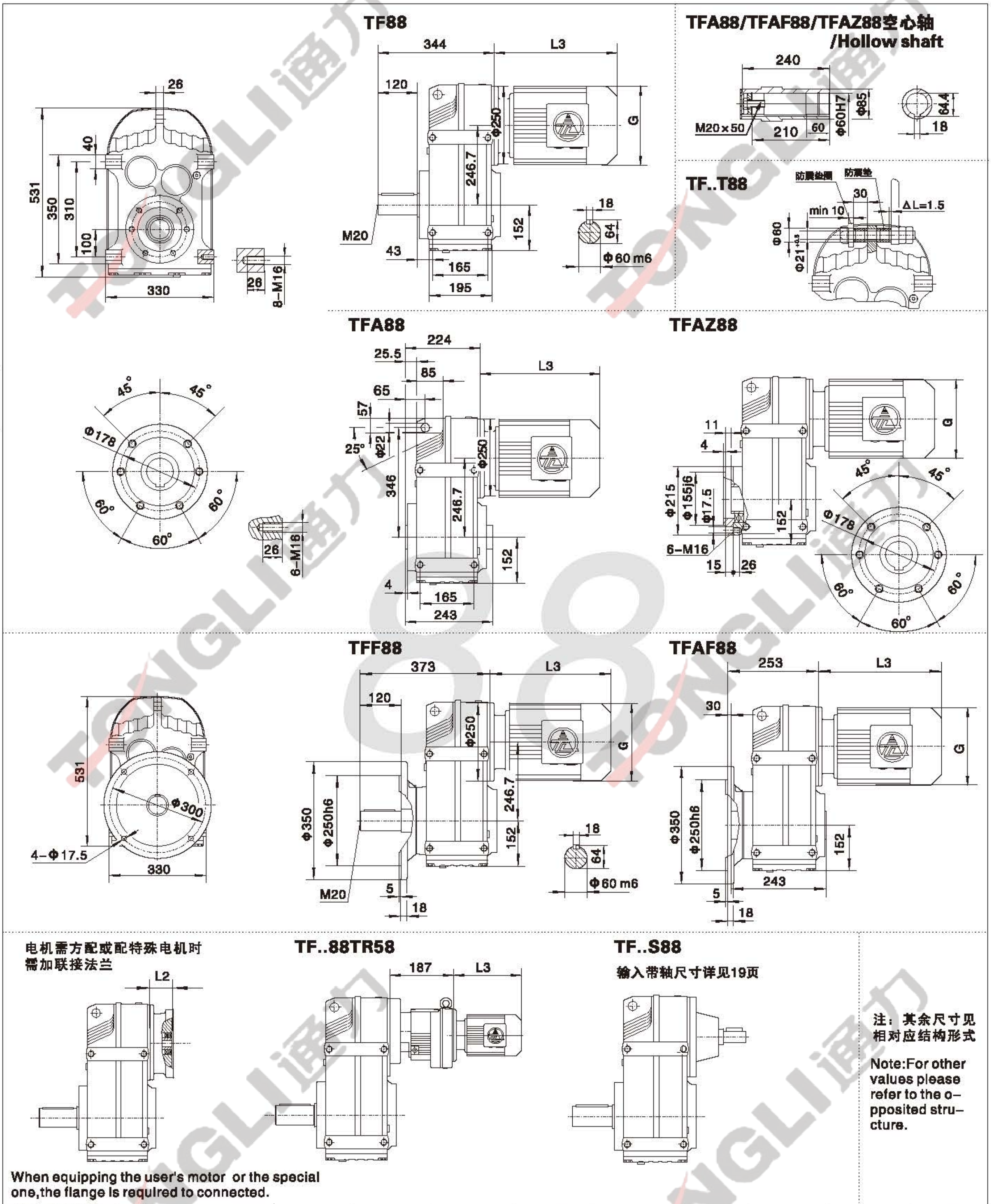
Y2电机机座号 Motor size	71	80	90S	90L	100	112M	132S	132M	160M
功率/4P Power/(kW)	0.37	0.55 0.75	1.1	1.5	2.2 3	4	5.5	7.5	11
L3	237	292	297	322	354	391	430	463	555
G	145	175	195	195	215	240	275	275	330
L2	28	63.5	63.5	63.5	65	65	68	68	99

注:1.以上壳体为通用件,安装尺寸均可相互参照 2."TF.."表示TF、TFA、TFF、TFAF、TFAZ 3.带锁紧盘式，详见TK(40–41)页 4、花键轴，详见TK(42–43)

Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2."TF.."mean TF、TFA、TFF、TFAF、TFAZ

3.Hollow shaft output with shrink disk, see P TK(40–41) for detail.

外形安装尺寸
Mounting Dimension Sheets-overview

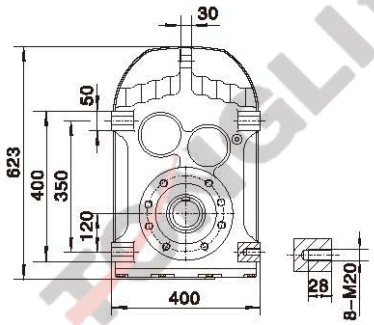


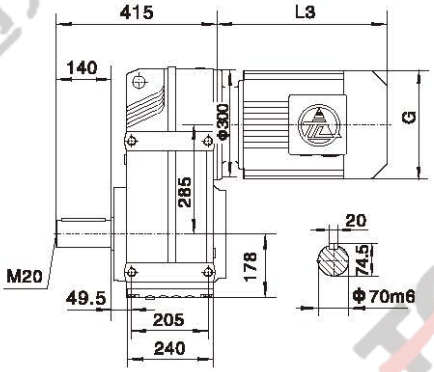
Y2电机机座号 Motor size	80	90S	90L	100		112M	132S	132M	160M	160L	180M	180L
功率/4P Power/(kW)	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22
L3	261	284	309	351		371	417	450	538	583	612	652
G	175	195	195	215		240	275	275	330	330	380	380
L2	71	71	71	72		72	83	83	95	95	95	95

注:1.以上壳体为通用件,安装尺寸均可相互参照　2."TF.."表示TF、TFA、TFF、TFAF、TFAZ　3.带锁紧盘式，详见TK(40-41)页　4、花键轴，详见TK(42-43)

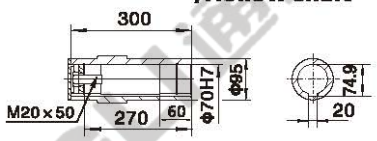
Note:1.The above housings are common parts.The mounting dimensions may consult each other.　2."TF.."mean TF、TFA、TFF、TFAF、TFAZ
3.Hollow shaft output with shrink disk, see P TK(40-41) for detail.

TF98

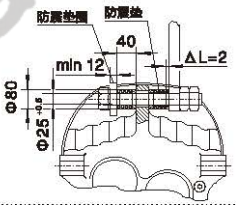




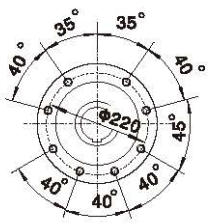
TFA98/TFAF98/TFAZ98空心轴 /Hollow shaft

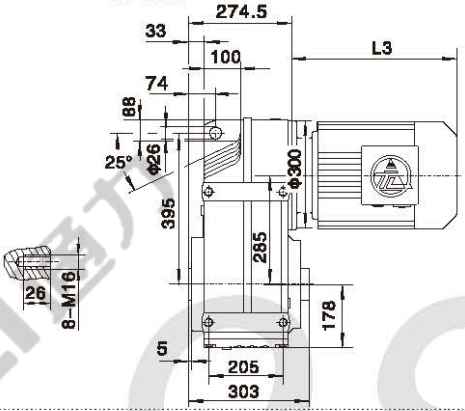


TF..T98

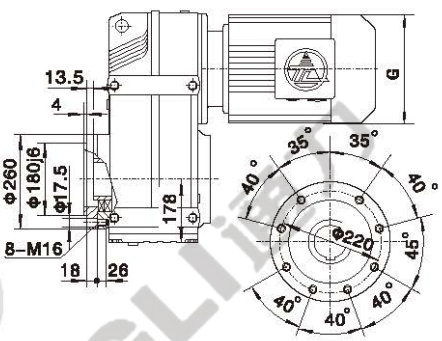


TFA98

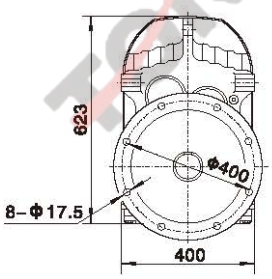


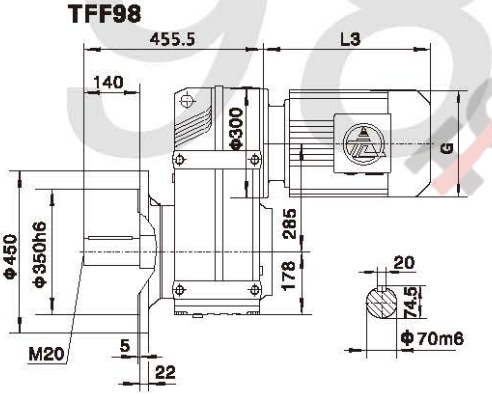


TFAZ98

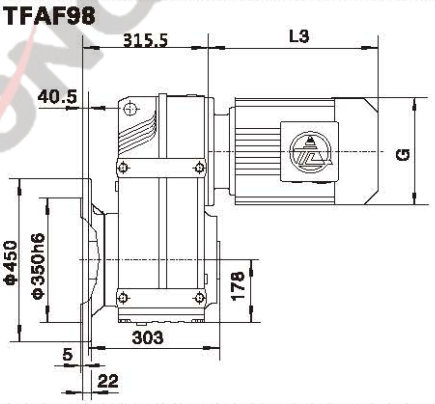


TFF98

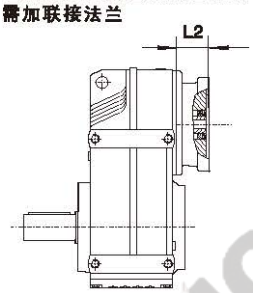




TFAF98

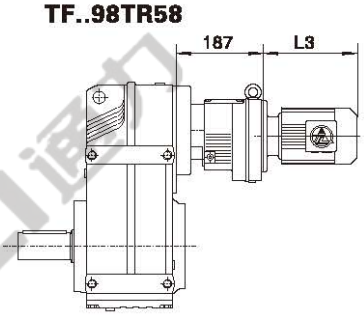


电机需方配或配特殊电机时
需加联接法兰



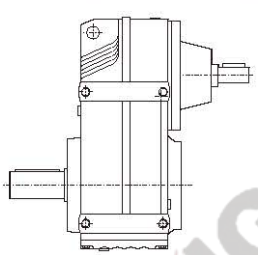
When equipping the user's motor or the special one,the flange is required to connected.

TF..98TR58



TF..S98

输入带轴尺寸详见19页



注：其余尺寸见相对应结构形式

Note:For other values please refer to the o–pposited stru–cture.

Yz电机机座号 Motor size	90S	90L	100	112M	132S	132M	160M	160L	180M	180L	200
功率/4P Power/(kW)	1.1	1.5	2.2 3	4	5.5	7.5	11	15	18.5	22	30
L3	276	301	322	342	411	444	529	574	593	633	670
G	195	195	215	240	275	275	330	330	380	380	420
L2	50	50	50	50	77	77	113	113	113	113	108

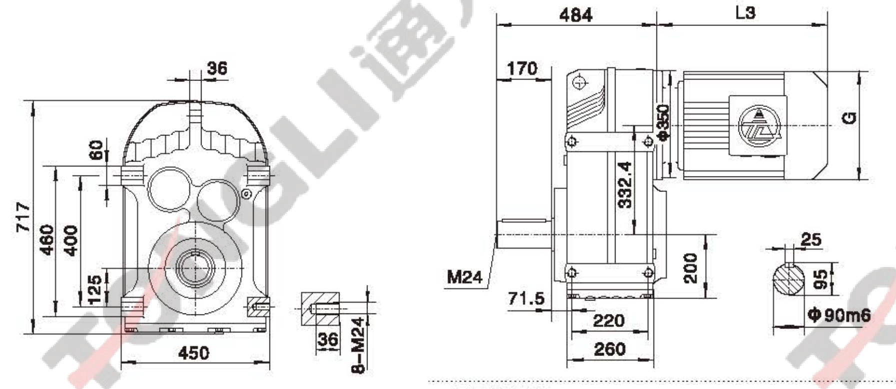
注:1.以上壳体为通用件,安装尺寸均可相互参照　2."TF.."表示TF、TFA、TFF、TFAF、TFAZ 3.带锁紧盘式，详见TK(40–41)页 4、花键轴，详见TK(42–43)

Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2."TF.."mean TF、TFA、TFF、TFAF、TFAZ

3.Hollow shaft output with shrink disk, see P TK(40–41) for detail.

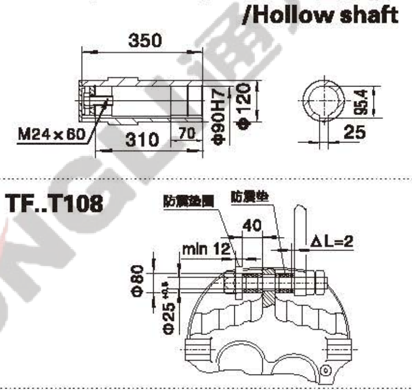
外形安装尺寸
Mounting Dimension Sheets-overview

TF108

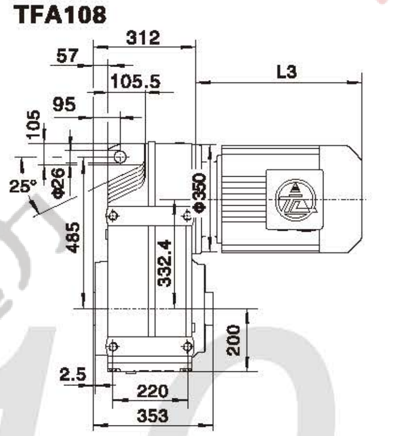


TFA108/TFAF108/TFAZ108空心轴 /Hollow shaft

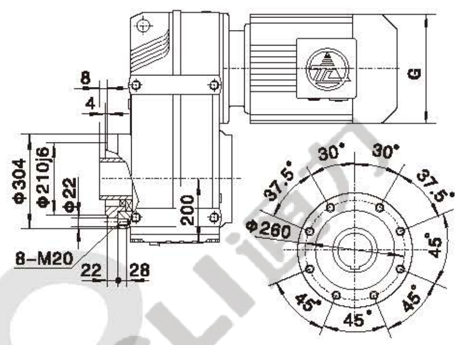
TF..T108



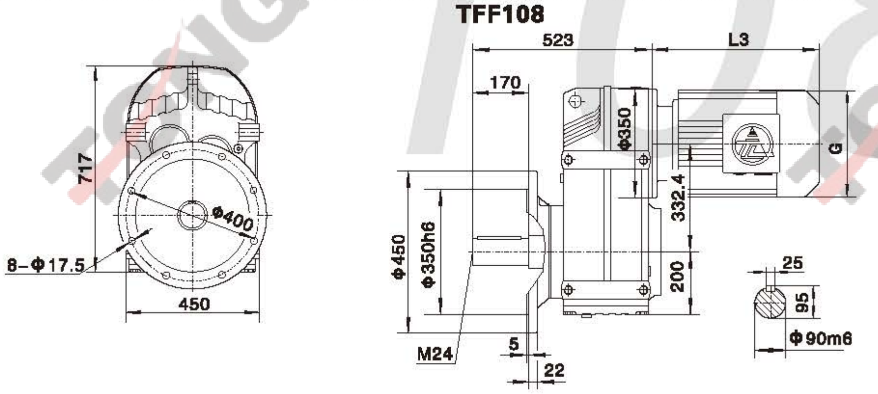
TFA108



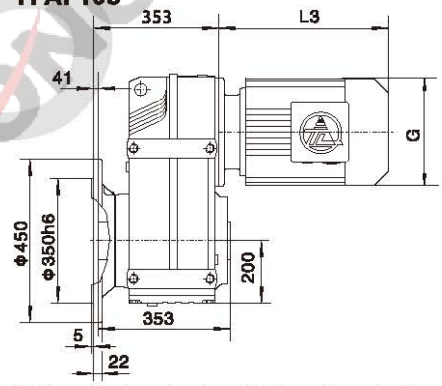
TFAZ108



TFF108



TFAF108

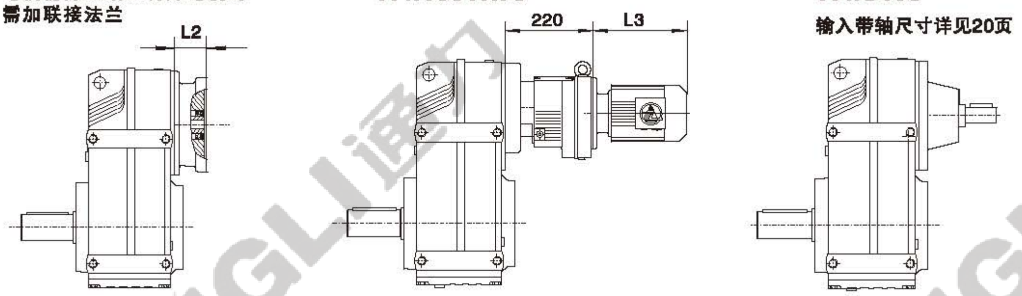


电机需方配或配特殊电机时需加联接法兰

TF..108TR78

TF..S108

输入带轴尺寸详见20页



注：其余尺寸见相对应结构形式

Note:For other values please refer to the opposited structure.

When equipping the user's motor or the special one,the flange is required to connected.

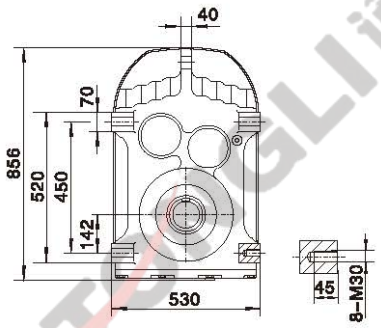
Y2电机机座号 Motor size	100		112M	132S	132M	160M	160L	180M	180L	200	225S	225M
功率/4P Power/(kW)	2.2	3	4	5.5	7.5	11	15	18.5	22	30	37	45
L3	325		342	397	430	518	563	593	633	670	684	709
G	215		240	275	275	330	330	380	380	420	470	470
L2	55		55	77	77	112	112	112	112	105	121	121

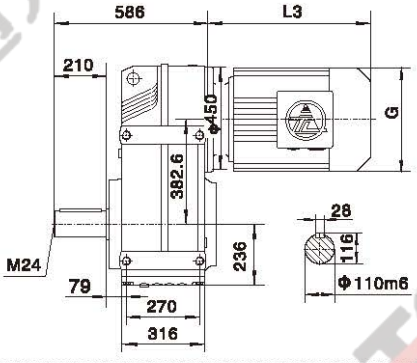
注:1.以上壳体为通用件,安装尺寸均可相互参照 2."TF.."表示TF、TFA、TFF、TFAF、TFAZ 3.带锁紧盘式，详见TK(40–41)页 4、花键轴，详见 TK(42–43)

Note:1.The above housings are common parts.The mounting dimensions may consult each other. 2."TF.."mean TF、TFA、TFF、TFAF、TFAZ
3.Hollow shaft output with shrink disk, see P TK(40–41) for detail.

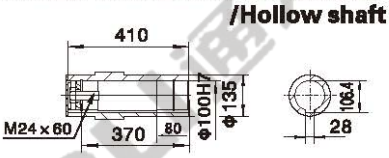
外形安装尺寸
Mounting Dimension Sheets–overview

TF128

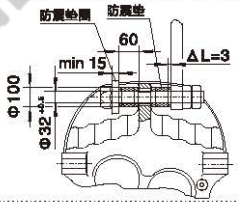




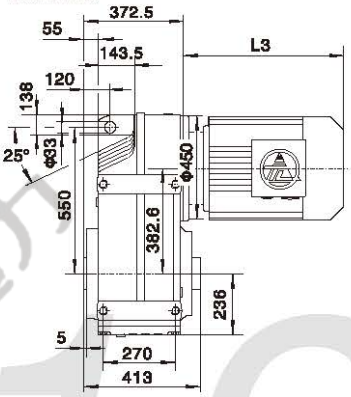
TFA128/TFAF128/TFAZ128空心轴 /Hollow shaft



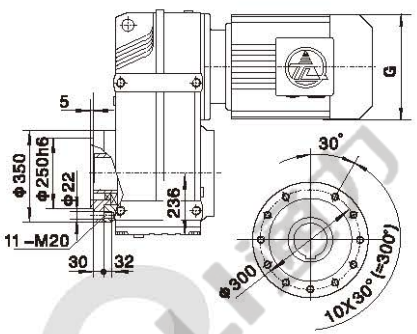
TF..T128



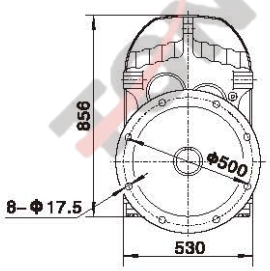
TFA128

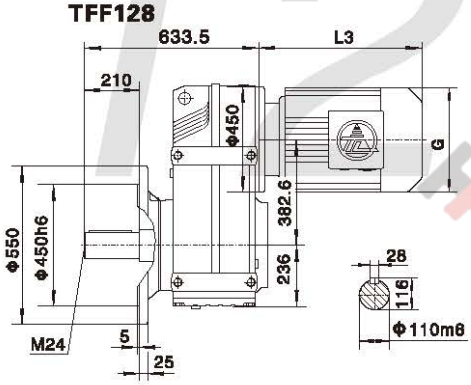


TFAZ128

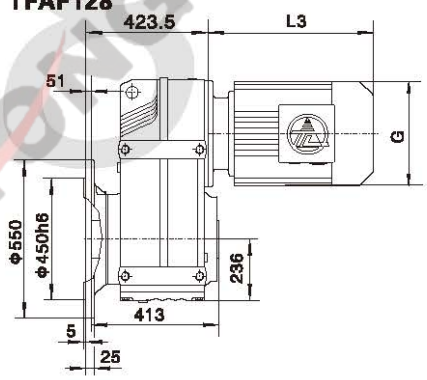


TFF128

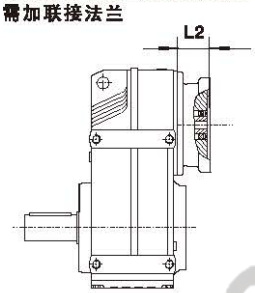




TFAF128

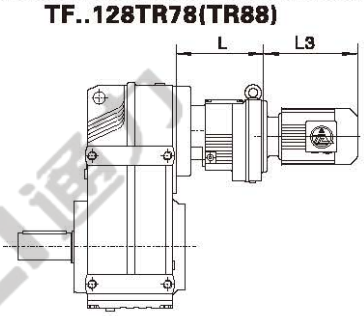


电机需方配或配特殊电机时
需加联接法兰



When equipping the user's motor or the special one,the flange is required to connected.

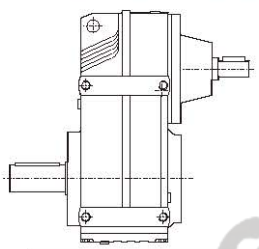
TF..128TR78(TR88)



	TF..128TR78	TF..128TR88
L	220	272

TF..S128

输入带轴尺寸详见20页



注：其余尺寸见相对应结构形式

Note:For other values please refer to the opposited structure.

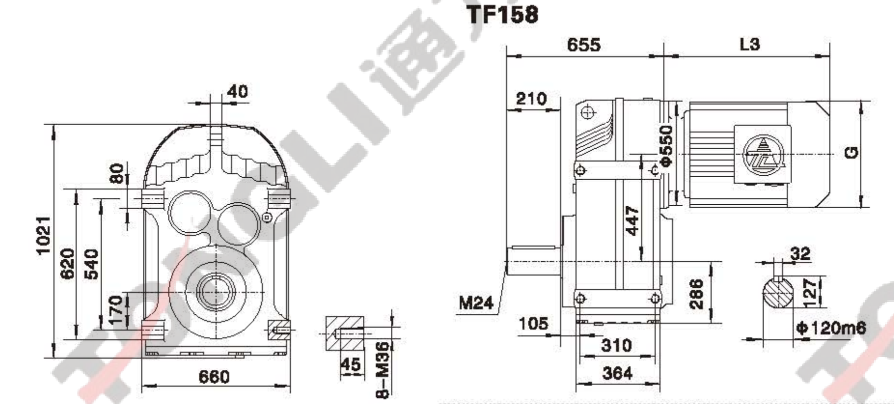
Y2电机机座号 Motor size	132M	160M	160L	180M	180L	200	225S	225M	250	280S	280M
功率/4P Power/(kW)	7.5	11	15	18.5	22	30	37	45	55	75	90
L3	429	490	535	593	633	658	678	703	784	847	847
G	275	330	330	380	380	420	470	470	510	580	580
L2	55	93	93	93	93	93	115	115	125	125	125

注:1.以上壳体为通用件,安装尺寸均可相互参照　2."TF.."表示TF、TFA、TFF、TFAF、TFAZ　3.带锁紧盘式，详见TK(40–41)页　4、花键轴，详见TK(42–43)

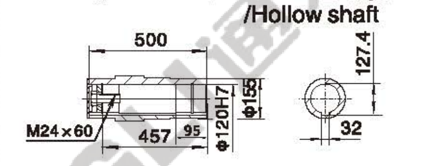
Note:1.The above housings are common parts.The mounting dimensions may consult each other.　2."TF.."mean TF、TFA、TFF、TFAF、TFAZ

3.Hollow shaft output with shrink disk, see P TK(40–41) for detail.

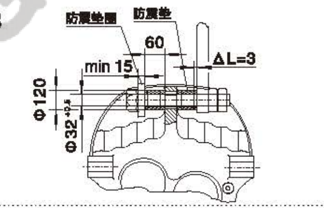
TF158



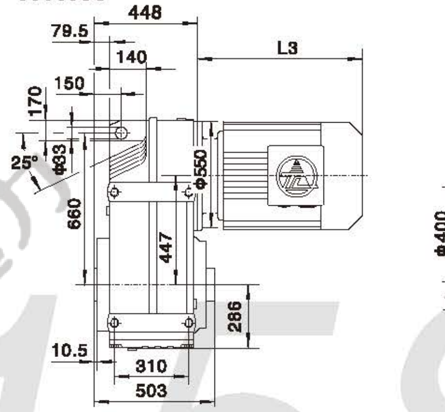
TFA158/TFAF158/TFAZ158空心轴 /Hollow shaft



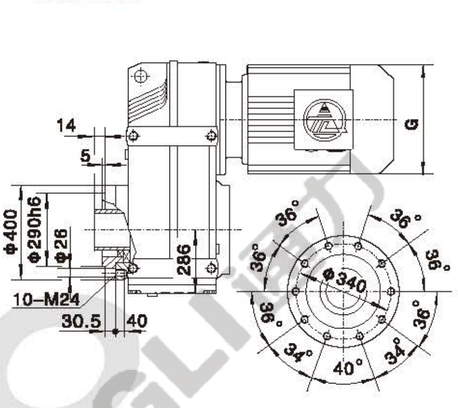
TF..T158



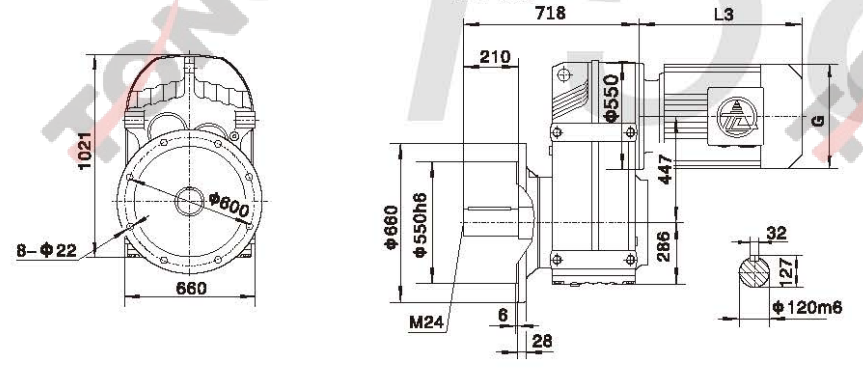
TFA158



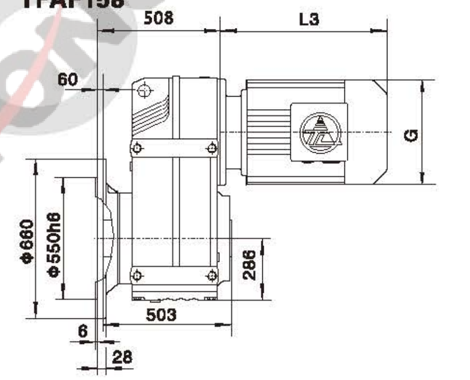
TFAZ158



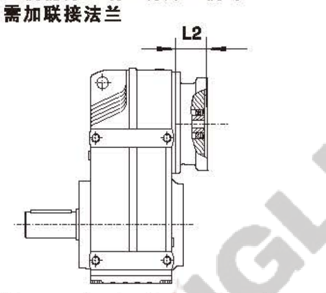
TFF158



TFAF158

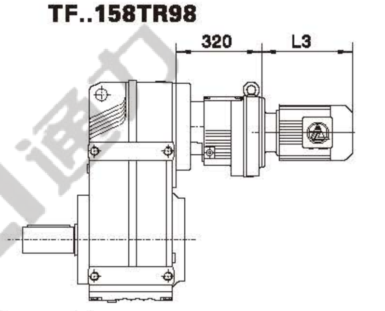


电机需方配或配特殊电机时需加联接法兰



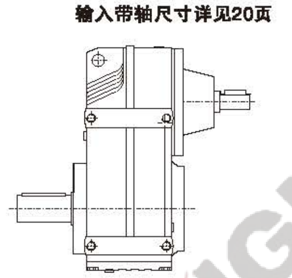
When equipping the user's motor or the special one,the flange is required to connected.

TF..158TR98



TF..S158

输入带轴尺寸详见20页



注：其余尺寸见相对应结构形式

Note:For other values please refer to the opposited structure.

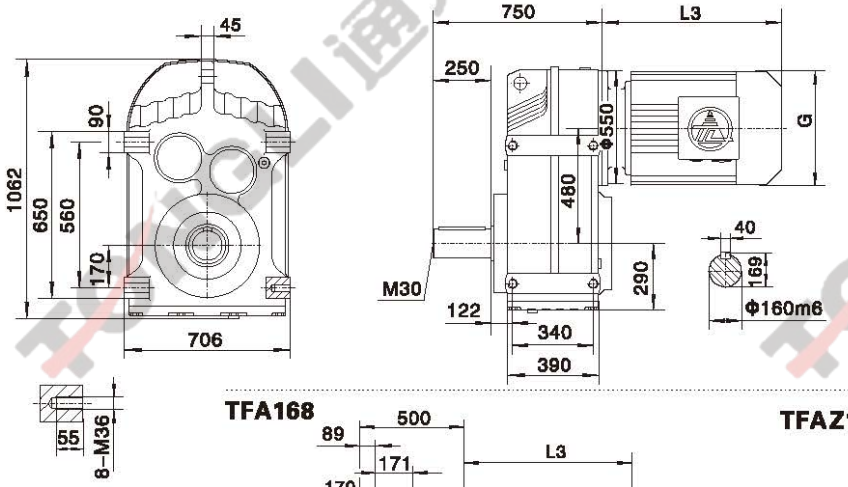
Y2电机机座号 Motor size	160M	160L	180M	180L	200	225S	225M	250	280S	280M	315S	315M	315L
功率/4P Power/(kW)	11	15	18.5	22	30	37	45	55	75	90	110	132	160
L3	492	537	593	633	646	673	698	779	847	847	1100	1180	1270
G	330	330	380	380	420	470	470	510	580	580	645	645	645
L2	86	86	86	86	86	120	120	133	133	133	149	149	149

注:1.以上壳体为通用件,安装尺寸均可相互参照　2."TF.."表示TF、TFA、TFF、TFAF、TFAZ 3.带锁紧盘式，详见TK(40-41)页 4、花键轴，详见TK(42-43)

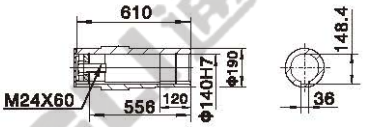
Note:1.The above housings are common parts.The mounting dimensions may consult each other.　2."TF.."mean TF、TFA、TFF、TFAF、TFAZ

3.Hollow shaft output with shrink disk, see P TK(40-41) for detail.

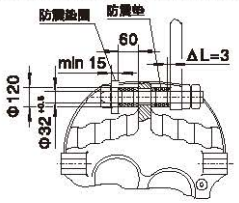
TF168



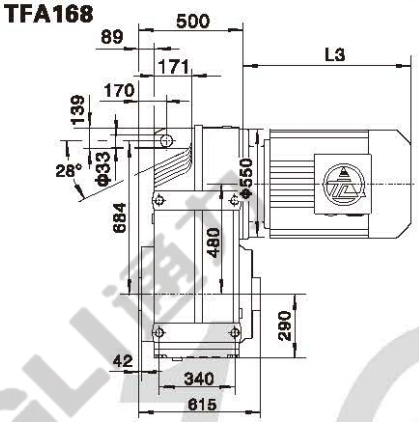
TFA168/TFAF168/TFAT168空心轴 /Hollow shaft



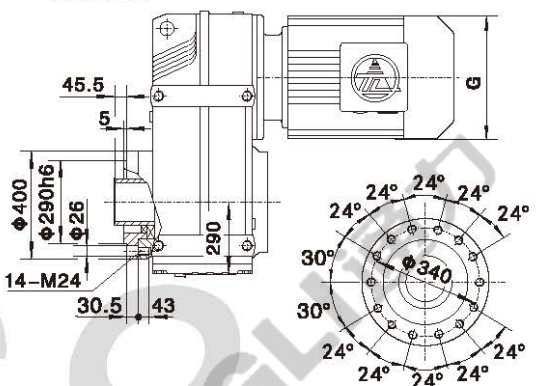
TF..T168



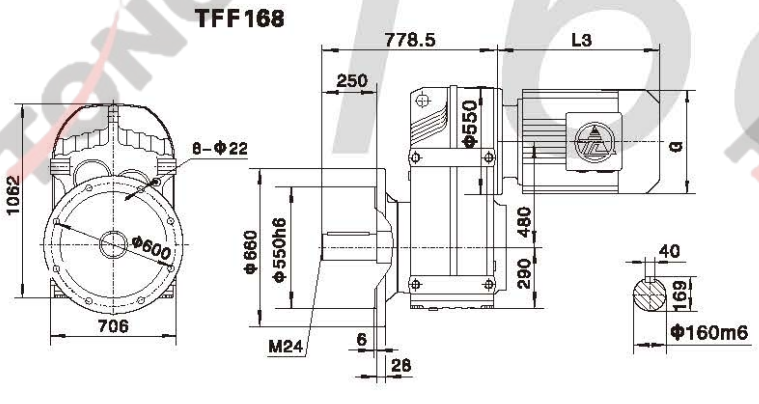
TFA168



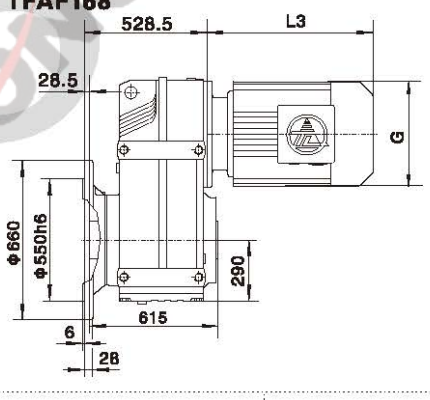
TFAZ168



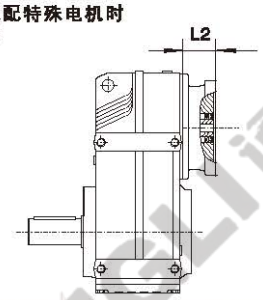
TFF168



TFAF168



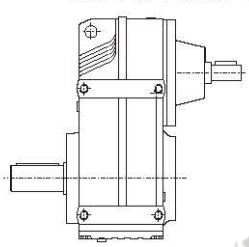
电机需方配或配特殊电机时
需加联接法兰



When equipping the user's motor or the special one,the flange is required to connected.

TF..S168

输入带轴尺寸详见20页



注：其余尺寸见相对应结构形式

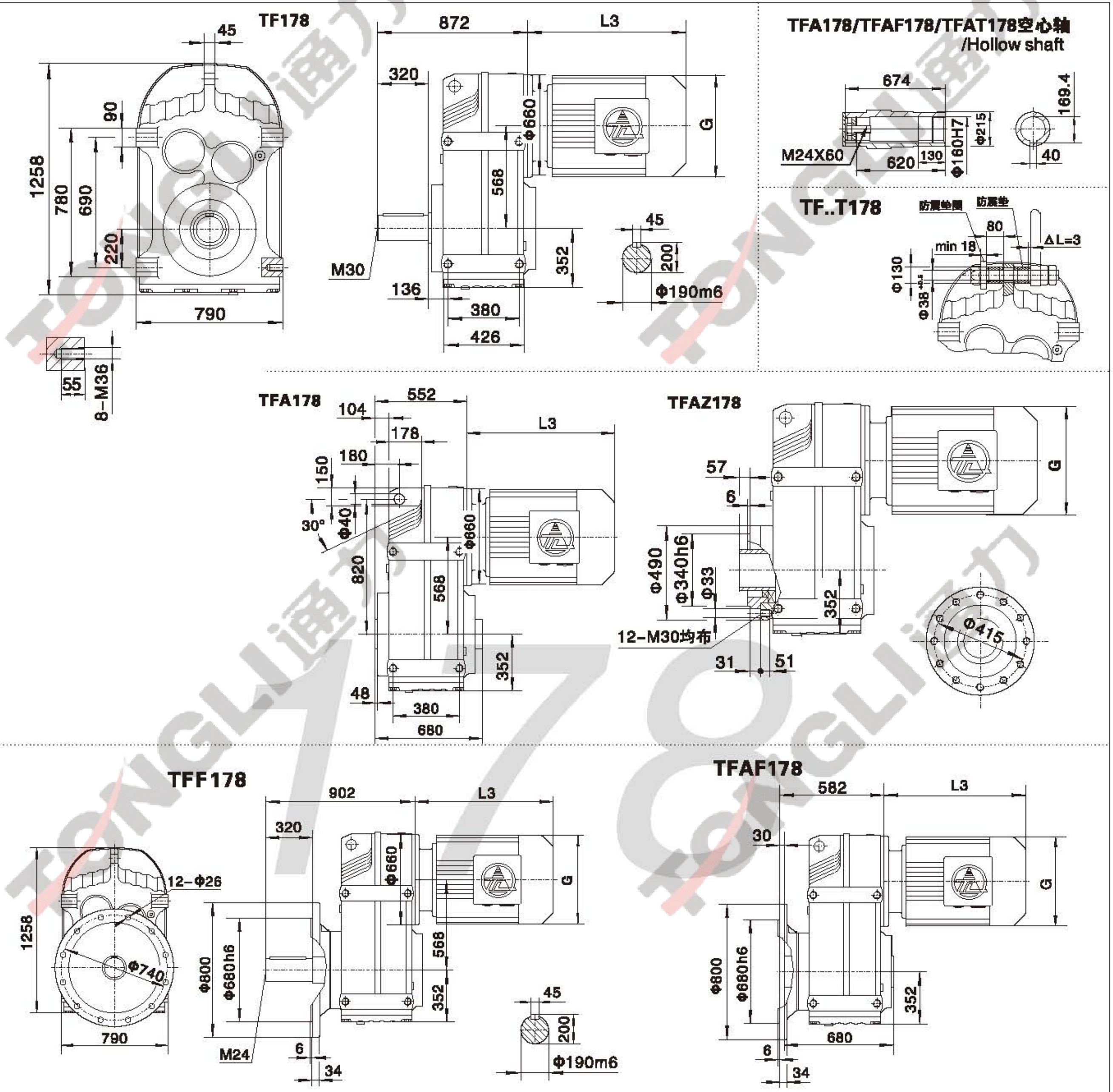
Note:For other values please refer to the opposited structure.

Y2电机机座号 Motor size	160M	160L	180M	180L	200	225S	225M	250	280S	280M	315S	315M	315L
功率/4P Power/(kW)	11	15	18.5	22	30	37	45	55	75	90	110	132	160 200
L3	492	537	593	633	646	673	698	779	847	847	1100	1180	1360
G	330	330	380	380	420	470	470	510	580	580	645	645	645
L2	86	86	86	86	86	120	120	133	133	133	149	149	149

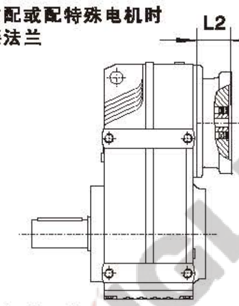
注:1.以上壳体为通用件,安装尺寸均可相互参照　2."TF.."表示TF、TFA、TFF、TFAF、TFAZ

Note:1.The above housings are common parts.The mounting dimensions may consult each other.　2."TF.."mean TF、TFA、TFF、TFAF、TFAZ

外形安装尺寸
Mounting Dimension Sheets-overview

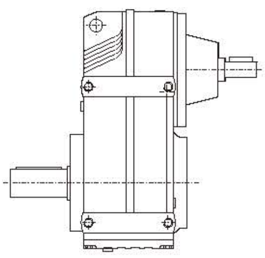


电机需方配或配特殊电机时
需加联接法兰



When equipping the user's motor or the special one,the flange is required to connected.

TF..S178 输入带轴尺寸详见20页



注：其余尺寸见相对应结构形式

Note:For other values please refer to the opposited structure.

Y2电机机座号 Motor size	160M	160L	180M	180L	200	225S	225M	250	280S	280M	315S	315M	315L	
功率/4P Power/(kW)	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200
L3	525	570	626	666	679	706	731	812	880	880	1133	1213	1393	
G	330	330	380	380	420	470	470	510	580	580	645	645	645	
L2	119	119	119	119	119	153	153	166	166	166	182	182	182	

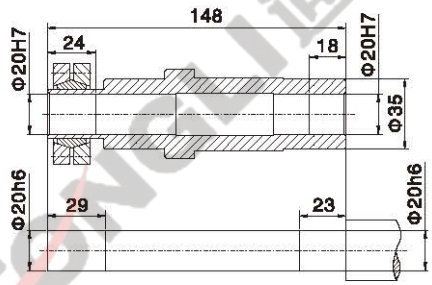
注:1.以上壳体为通用件,安装尺寸均可相互参照　2."TF.."表示TF、TFA、TFF、TFAF、TFAZ

Note:1.The above housings are common parts.The mounting dimensions may consult each other.　2."TF.."mean TF、TFA、TFF、TFAF、TFAZ

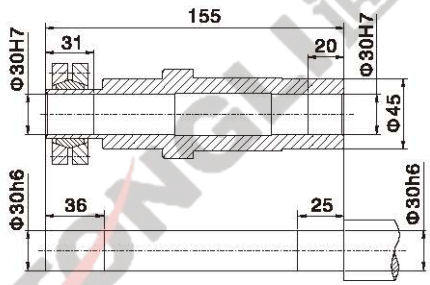
外形安装尺寸
Mounting Dimension Sheets–overview

TS、TF、TK系列锁紧盘尺寸图 Dimensions of shrink disk for TS、TF、TK series

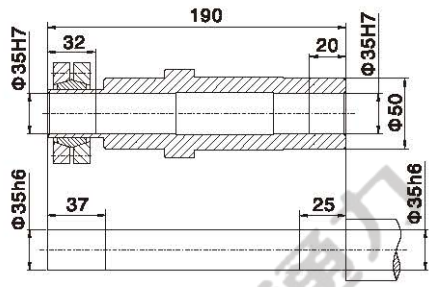
TSH..38..



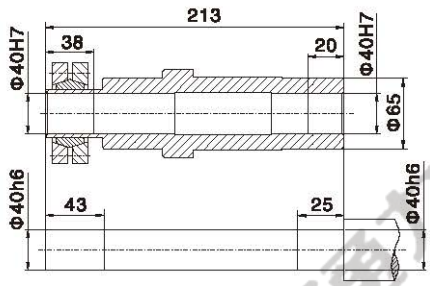
TSH..48..



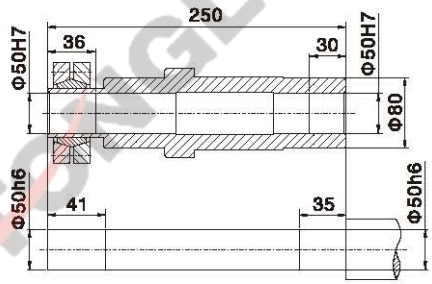
TSH..58..



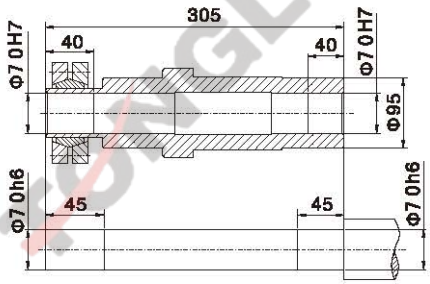
TSH..68..



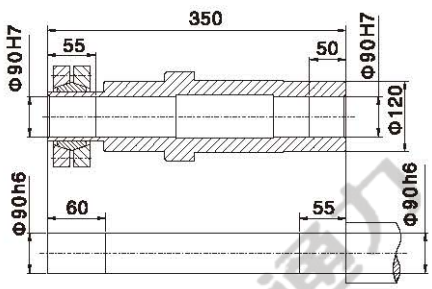
TSH..78..



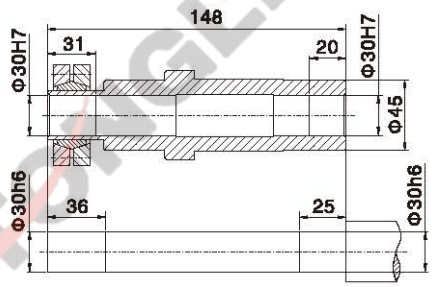
TSH..88..



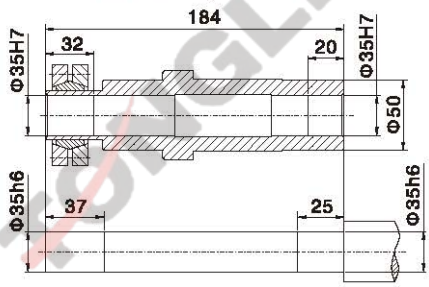
TSH..98..



TKH..38../TFH..38..



TKH..48../TFH..48..

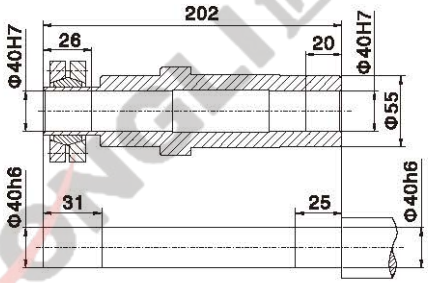


注：1.四大系列带锁紧盘型减速机除输出轴不同外，其余均同平键空心轴标准产品。

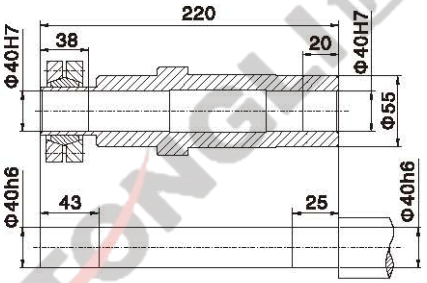
Note: 1.Except the output shaft, the main four series gear units with shrink disk are the same as the standard ones with hollow shafts with plat key .

TS、TF、TK系列锁紧盘尺寸图 Dimensions of shrink disk for TS、TF、TK series

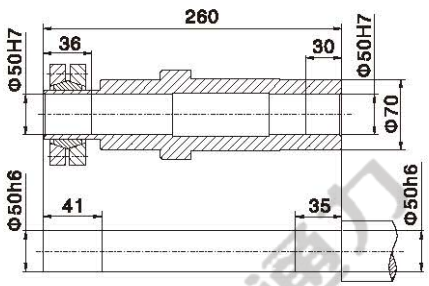
TKH..58../TFH..58..



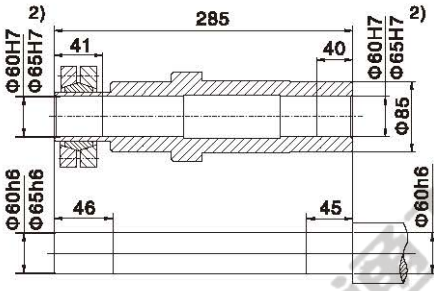
TKH..68../TFH..68..



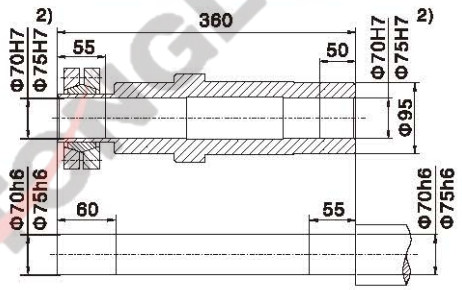
TKH..78../TFH..78..



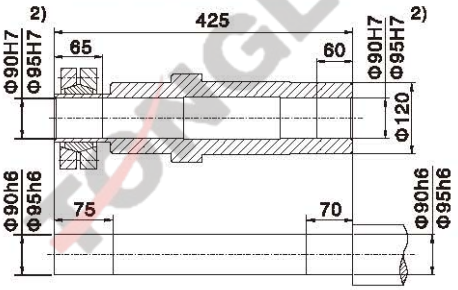
TKH..88../TFH..88..



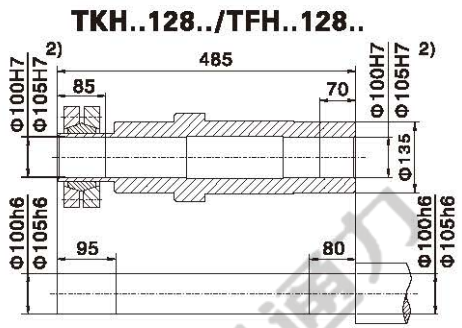
TKH..98../TFH..98..



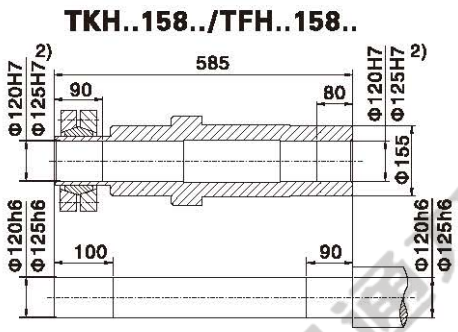
TKH..108../TFH..108..



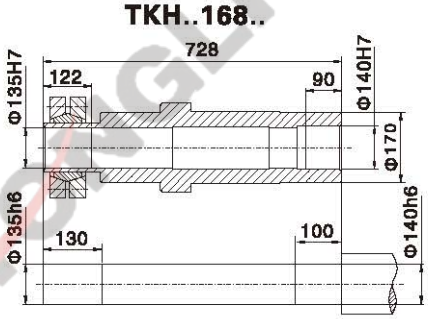
TKH..128../TFH..128..



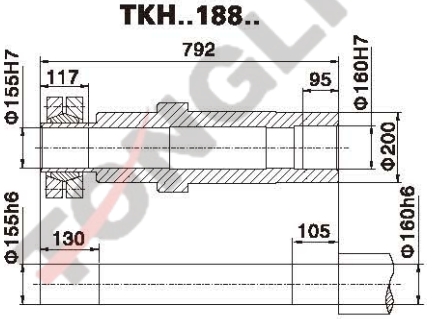
TKH..158../TFH..158..



TKH..168..



TKH..188..



注：1.四大系列带锁紧盘型减速机除输出轴不同外，其余均同平键空心轴标准产品。

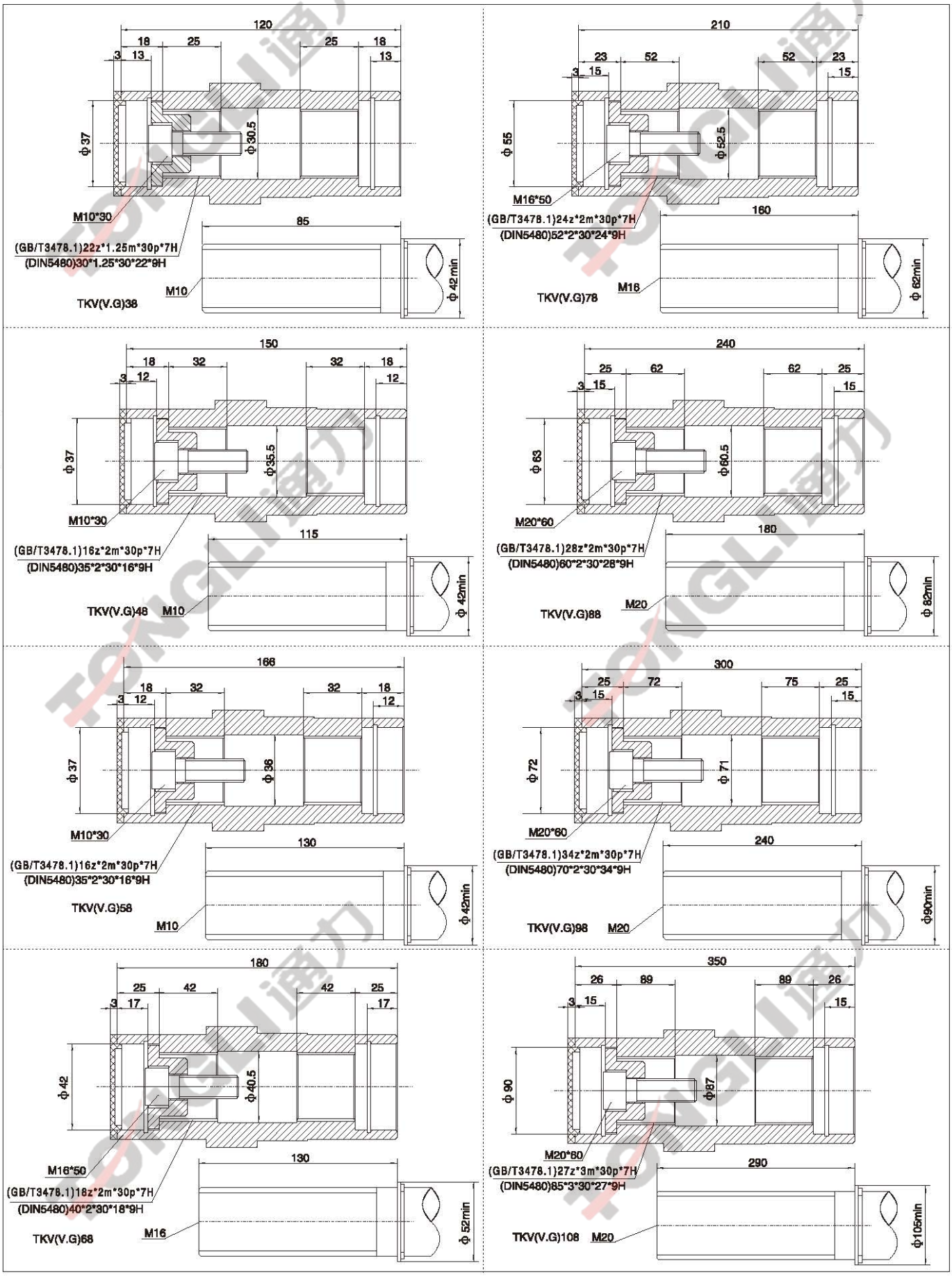
2.TKH88～TKH158输出轴有2种孔径，选较大孔径时需注明。

Note: 1.Except the output shaft, the main four series gear units with shrink disk are the same as the standard ones with hollow shafts with plat key .

2.The output shaft of TKH88~TKH158 has two types of apertures.When selecting a larger aperture, it should be noted that.

外形安装尺寸
Mounting Dimension Sheets-overview

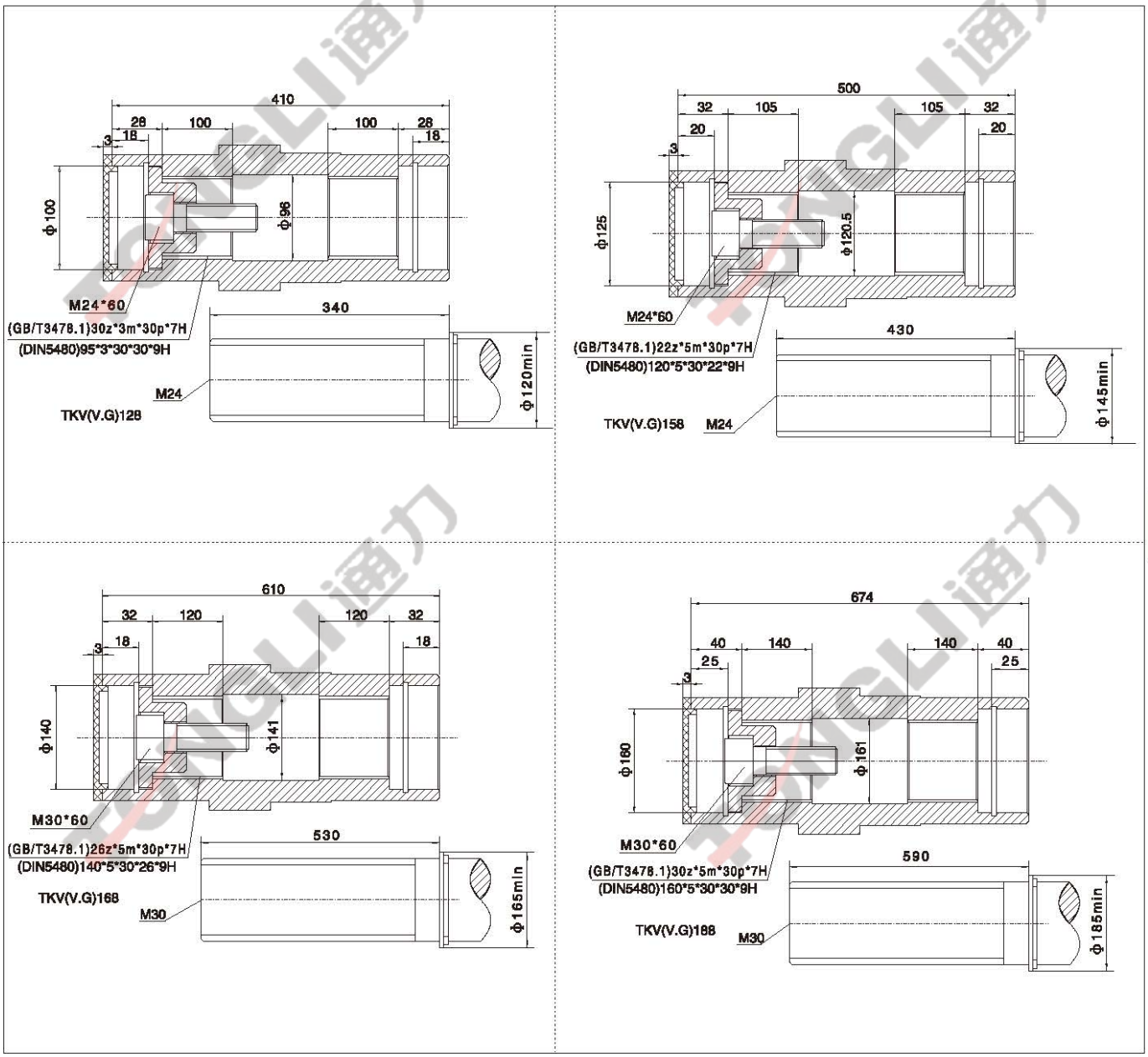
TF、TK系列花键轴尺寸图 Dimensions of spline for TF、TK series



注：1.四大系列花键空心轴减速机除输出轴不同外，其余均同平键空心轴标准产品。

Note: 1.Except the output shaft, the main four series gear units with spline are the same as the standard ones with hollow shafts with plat key .

TF、TK系列花键轴尺寸图 Dimensions of spline for TF、TK series



注：1.四大系列花键空心轴减速机除输出轴不同外，其余均同平键空心轴标准产品。

Note: 1.Except the output shaft, the main four series gear units with spline are the same as the standard ones with hollow shafts with plat key .

减速器润滑

润滑油种类选择

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

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

润滑油粘度

条　　件	润滑油粘度等级 40°C温度下的ISO-VG粘度mm/s^2(cst)
高速级圆周速度v<2.5m/s,或环境温度在35-50°C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°C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/°C
中载荷工业齿轮油L-CKC	-8°C至+90°C(瞬时可达100°C)
重载荷工业齿轮油L-CKD	-5°C至+100°C(瞬时可达110°C)
蜗轮蜗杆油L-CKE/P	-5 C至+100 C(瞬时可达110 C)

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

强制润滑润滑油允许的极限温度

40°C温度下的ISO-VG粘度 mm^2/s(cst)	强制润滑允许的极限温度/°C	
	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)

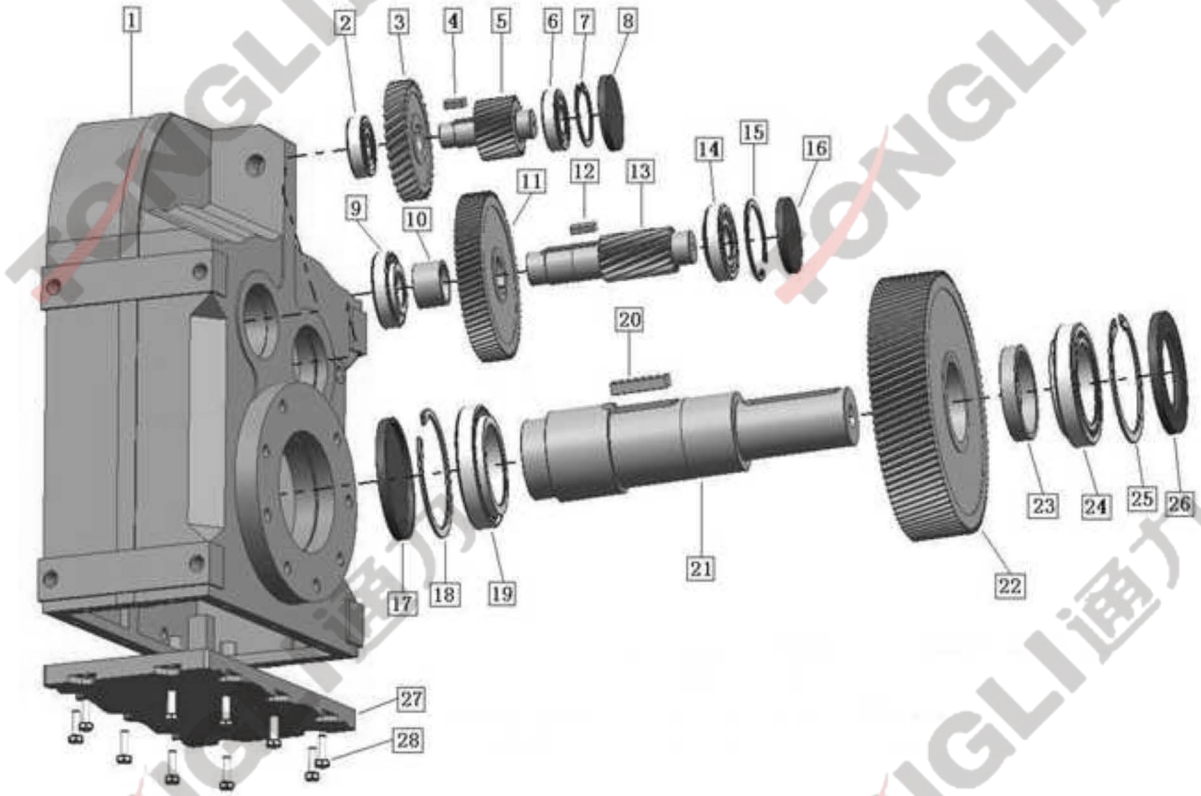
Notes:If the temperatures of gear units are above or below the values as listed in table ,it determines the proper oil again. If the ambient temperatures are below 0℃, the oil has to be heated above 0℃.

Permissible temperature limit for forced feed lubrication

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

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

二、TF系列爆炸图　TF series exploded view

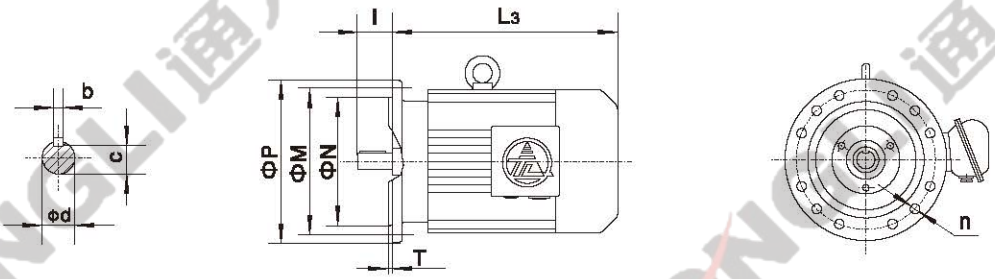


1.箱体
2.轴承Ⅰ
3.齿轮Ⅰ
4.平键Ⅰ
5.齿轮轴Ⅱ
6.轴承Ⅱ
7.孔用挡圈Ⅰ
8.封盖Ⅰ
9.轴承Ⅲ
10.轴套Ⅱ
11.齿轮Ⅱ
12.平键Ⅱ
13.齿轮轴Ⅲ
14.轴承Ⅳ
15.孔用挡圈Ⅱ
16.封盖Ⅱ
17.封盖Ⅲ
18.孔用挡圈Ⅲ
19.轴承Ⅴ
20.平键Ⅲ
21.输出轴
22.齿轮Ⅲ
23.轴套Ⅲ
24.轴承Ⅵ
25.孔用挡圈Ⅳ
26.油封Ⅰ
27.盖
28.螺栓Ⅰ

1.Housing
2.Bearing
3.Gear
4.Parallel key
5.Gear shaft
6.Bearing
7.Circlip
8.Cover
9.Bearing
10.Bush
11.Gear
12.Parallel key
13.Gear shaft
14.Bearing
15.Circlip
16.Cover
17.Cover
18.Circlip
19.Bearing
20.Parallel key
21.Output shaft
22.Gear
23.Bush
24.Bearing
25.Circlip
26.Seal
27.Cover
28.Bolts

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	4极 4 Pole		6极 6 Pole		8极 8 Pole		L3				安装尺寸 Mounting dimensions									M(kg)				
Motor size	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) (Aluminium housing)	Y_2	B	E	V
63M1	0.12	1390					202	270	328		115	95j6	140	4×Φ10	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	4×Φ10	3.5	14j6	30	5	11	6.5	14	16	12	14
71M2	0.37	1390	0.25	850																7.5	14.5	16	13	15
80M1	0.55	1390	0.37	885	0.18	645	255	290	350	310	165	130j6	200	4×Φ12	3.5	19j6	40	6	15.5	10	15	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	4×Φ12	3.5	24j6	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	4×Φ12	3.5	24j6	50	8	20	20	25	39	31	28
100L1	2.2	1420	1.5	920	0.75	680	325	370	420	370	215	180j6	250	4×Φ15	4	28j6	60	8	24		33	49	41	35
100L2	3	1420			1.1	680															35	53	44	36
112M	4	1440	2.2	940	1.5	690	340	400	450	390	215	180j6	250	4×Φ15	4	28j6	60	8	24		41	67	60	43
132S	5.5	1440	3	960	2.2	710	390	430	505	450	265	230j6	300	4×Φ15	4	38k6	80	10	33		65	93	85	63
132M	7.5	1460	4	960	3	710	430	470	545	490	265	230j6	300	4×Φ15	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	4×Φ19	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	4×Φ19	5	42k6	110	12	37		132	169	165	136
180M	18.5	1470	/	/	/	/	590	620	715	740	300	250h6	350	4×Φ19	5	48k6	110	14	42.5		164	205	203	169
180L	22	1470	15	970	11	730	630	640	765	790	300	250h6	350	4×Φ19	5	48k6	110	14	42.5		182	222	216	183
200L	30	1470	18.5	970	15	730	660	695	790	850	350	300h6	400	4×Φ19	5	55k6	110	16	49		245	300	296	236
			22	970																				
225S	37	1480	/	/	18.5	730	675	705	860	910	400	350h6	450	8×Φ19	5	60m6	140	18	53		258	360	370	291
225M	45	1480	30	980	22	730	705	730	890	940	400	350h6	450	8×Φ19	5	60m6	140	18	53		290	390	405	327
250M	55	1480	37	980	30	730	770	795		1060	500	450h6	550	8×Φ19	5	65m6	140	18	58		388	530	498	393
280S	75	1480	45	980	37	730	845	870		1160	500	450h6	550	8×Φ19	5	75m6	140	20	67.5		510	660	633	520
280M	90	1485	55	980	45	740	895	920		1260	500	450h6	550	8×Φ19	5	75m6	140	20	67.5		606	785	723	610
315S	110	1485	75	980	55	740	1100	1100		1330	600	550h6	660	8×Φ24	6	80m6	170	22	71		910	1000	1150	950
315M	132	1485	90	985	75	740	1180	1180		1380	600	550h6	660	8×Φ24	6	80m6	170	22	71		1000	1100	1230	1030
315L	160	1485	110	985	90	740	1270	1270		1450	600	550h6	660	8×Φ24	6	80m6	170	22	71		1055	1100	1320	1100
	200	1485	132	985	110	740															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。

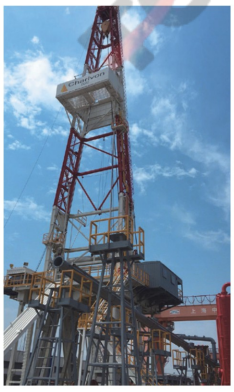
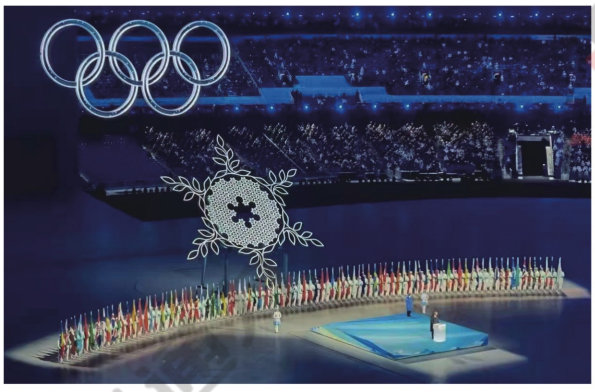
Note: Sometimes the parameters may be changed with the different structures and manufacturers, this table is only for reference,please refer to us for the exact dimensions.

APPLICATION
FIELDS

应用领域











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Environmental Protection

电力设备
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Construction machinery

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Lifting and transportation

PROCESSING AND
TESTING EQUIPMENT

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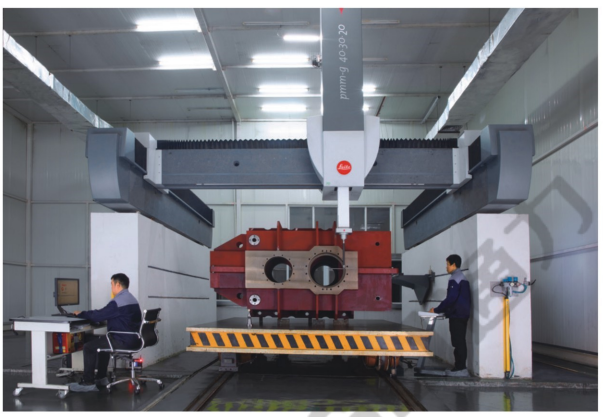

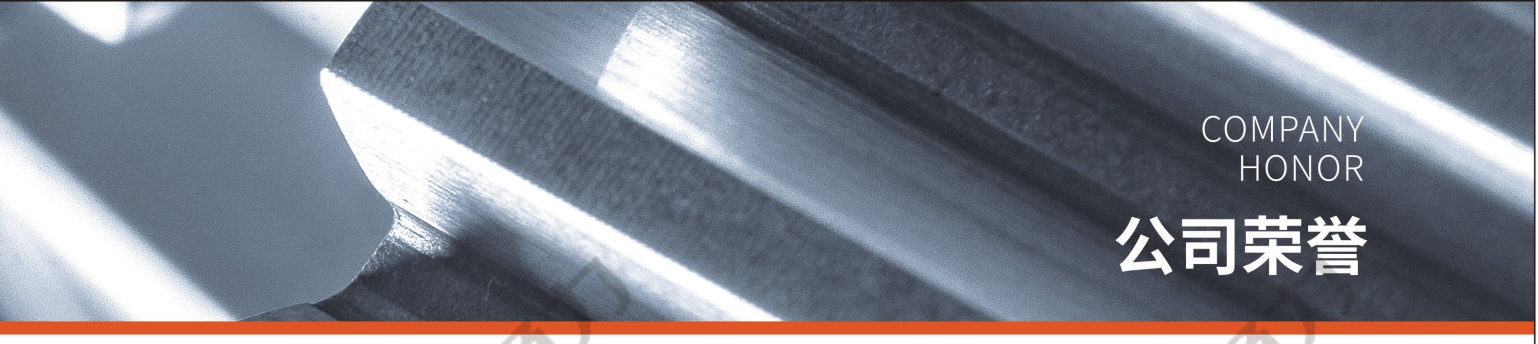

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