



SC Transmission
Hangzhou Speed Control Transmission

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ABOUT US

SC Transmission (Hangzhou Speed Control Transmission) , set by Frank and Tarina, dedicated to export, design, manufacture and distribution of products for power transmission, on the strength of their full knowledge and 10 years experience in this field.

SC Transmission tries to provide exceptional service to their customers in order to meet their needs in the field of power transmission such as gear reducers, gear motors, sprockets, gears(helical, spur, worm, bevel), racks, taper lock, bushes, couplings, pulleys and custom requirements as per their sample or drawings.

OUR VISION

offer the best solution for transmission in the world,make the transmission world more economic&efficient





NMRV WORM GEARBOX

Helical Gear Reducer



R Inline Helical Geared Motor



F Parallel Shaft-Helical Geared Motor



K Helical-Bevel Geared Motor



S Helical-worm Geared Motor

WP Series Worm Gear Reducer



WPA Worm Gear Reducer



WPO Worm Gear Reducer



WPS Worm Gear Reducer

SPEED REDUCER



生产工艺及检测设备

Production process & testing equipment

我们拥有行业领先的自动化制造设备，为零部件精度的不断提升给予持续的支持。

We have industry leading automated manufacturing equipment, rising for precision parts give continuous support.

我们拥有先进而完善的检验设备，为零件及整机作精密的检测。

We have advanced and perfect testing equipment, spare parts and units to be used as precise detection.

我们拥有专业技术的精英和领先水平的科技队伍，为产品的稳定性和可靠性提供可靠的保证。

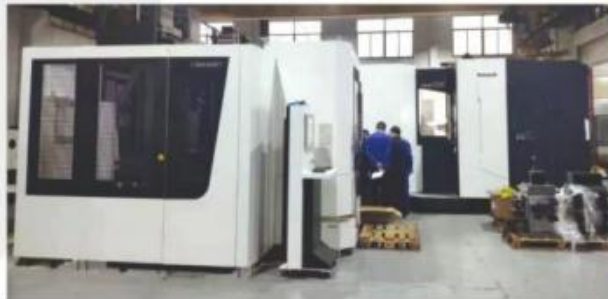
We have professional technology elite and leading level of science and technology team,
for the stability and reliability of products to provide a reliable guarantee.



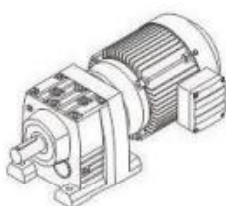


HANGZHOU SPEED CONTROL TRANSMISSION

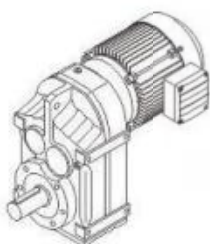
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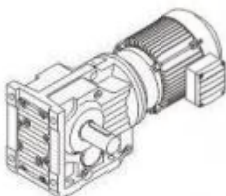
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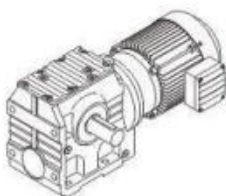
R系列斜齿轮减速机
R helical gear motor



F系列平行轴-斜齿轮减速机
F parallel shaft-helical gear motor



K系列斜齿轮-伞齿轮减速机
K helical-bevel gear motor



S系列斜齿轮-蜗轮蜗杆减速机
S helical-worm gear motor

性能特点 / 工作场所条件 Characteristics / Working environment

一、性能特点 Characteristics:

1. 我公司齿轮减速机是在模块组合体系的基础上设计的, 可以方便地配用各种型式的电动机或采用其它动力输入。
同种机型可配用多种功率的电动机。容易实现各种机型之间的组合联接。
2. 传动效率高, 单机型减速机效率高达96%。
3. 传动比划分细, 范围广。组合机型可以形成较大的传动比, 输出转速低。
4. 安装形式多样, 可任意位置卧式或法兰安装。

二、工作场所条件 Working Environment:

1. 环境温度-40℃~50℃。(0℃以下启动时润滑油要加热到0℃以上)
2. 海拔不超过1000米。
3. 输入转速不大于1800rpm, 齿轮最高圆周速度不超过22m/S。
4. 可用于正反运转。
5. 无行业限制。
6. 其他条件下使用请与我公司技术部联系。

三、选型指南 Instructions for Selection:

减速机通常是按每小时起停次数小于10, 常温20℃下, 按恒定转矩设计的。在按选型参数表选择机型号前, 须先了解工作机载荷和工作情况, 在运行功率确定后, 按下面方法选择参数表中的使用系数 f_B 。

R、F、K、S四大系列选型:

1. 确定工作机运行功率P(KW)
2. 根据工作机的载荷特征和每天工作小时数确定最低工况系数 f_1 (表1)
3. 根据每小时启动次数确定启动系数 f_2 (表2)
4. 计算总工况系数 f_A (S系列须考虑环境温度系数 f_3 , 表3)

$$f_A = f_1 \times f_2 \quad (f_A = f_1 \times f_2 \times f_3)$$

5. 根据减速机运行功率和输出转速由选型表选定减速机规格, 同时必须满足 $f_A \leq$ 选型参数表提供的使用系数 f_B 。

注: 如用户对减速机可靠性要求较高, 须考虑必要的安全系数或来电咨询;

输出端的径向载荷及轴向载荷, 请与我公司技术部联系;

减速机的使用与维护请参阅随机附带《减速机使用说明书》。

选型指南/ Instructions for selection

工作机		日带载运行时间(小时)			工作机		日带载运行时间(小时)		
		≤0.5	>0.5~10	>10			≤0.5	>0.5~10	>10
污水处理	浓缩器	-	-	1.2	起重机械	回转机构*	1	1.4	1.8
	压滤波器	1	1.3	1.5		俯仰机构	1	1.4	1.8
	絮凝器	0.8	1	1.3		行走机构	1.5	1.75	2
	曝气机	-	1.8	2		提升机构	1	1.1	1.4
	接集设备	1	1.2	1.3		转臂式起重机	1	1.2	1.6
	纵向, 回转组合接集装置	1	1.3	1.5		挤压机	-	-	1.6
	预缩器	-	1.1	1.3	化学工业	调浆机	-	1.8	1.8
	螺杆泵	-	1.3	1.5		橡胶研光机	-	1.5	1.5
	水轮机	-	-	2		冷却圆筒	-	1.3	1.4
	离心机	1	1.2	1.3		混料机, 用于均匀介质	1	1.3	1.4
	1个活塞容积式泵	1.3	1.4	1.8		混料机, 用于非均匀介质	1.4	1.6	1.7
	>1个活塞容积式泵	1.2	1.4	1.5		搅拌机, 用于密度均匀介质	1	1.3	1.5
挖泥机	斗式运输机	/	1.6	1.6		搅拌机, 用于非密度均匀介质	1.2	1.4	1.6
	倾卸装置	/	1.3	1.5		烘炉	1	1.3	1.5
	行走机构*	1.2	1.6	1.8		离心机	1	1.2	1.3
	斗轮式挖掘机: 用于捡拾	/	1.7	1.7		冷却塔风扇	-	-	2
	斗轮式挖掘机: 用于粗料	/	2.2	2.2	风机类	-	1.4	1.5	
	切碎机	/	2.2	2.2	蔗糖生产	甘蔗切碎机	-	-	1.7
钢铁工业	拉线机	1.25	1.5	1.75		甘蔗碾磨机	-	-	1.7
	绕线机	1	1.25	1.5	甜菜糖生产	甜菜绞碎机	-	-	1.2
	集中驱动辊道(无反转)	1.25	1.5	1.75		榨取机, 机械制冷机, 蒸煮机	-	-	1.4
	单驱动辊道(无反转)	1.5	1.75	2		甜菜清洗机	-	-	1.5
	集中驱动辊道(有反转)	1.75	2.25	2.5		甜菜切碎机	-	-	1.5
	单驱动辊道(有反转)	2	2.25	2.75	索道缆车	运货索道	-	1.3	1.4
纺织工业	织机	1.25	1.5	1.75		往反系统空中索道	-	1.6	1.8
	纺纱机	1	1.25	1.5		T型杆升降机	-	1.3	1.4
	洗涤机	-	1.25	1.5		连续索道	-	1.4	1.6
输送机械	斗式输送机	-	1.2	1.5	水泥工业	混凝土搅拌机	-	1.5	1.5
	绞车	1.4	1.6	1.6		破碎机*	-	1.2	1.4
	卷扬机	-	1.5	1.8		回转窑	-	-	2
	皮带输送机≤150KW	1	1.2	1.3		管式磨机	-	-	2
	皮带输送机>151KW	1.1	1.3	1.4		选粉机	-	1.6	1.6
	货用电梯*	-	1.2	1.5		辊压机	-	-	2
	客用电梯*	-	1.5	1.8	造纸机械	各种类型**	-	1.8	2
	刮板输送机	-	1.2	1.5		碎浆机驱动装置	-	2	2.25
	自动扶梯	-	1.2	1.4	压缩机	往复式压缩机	-	1.8	1.9
	轨道行走机构	-	1.5	-		离心式压缩机	-	1.4	1.5

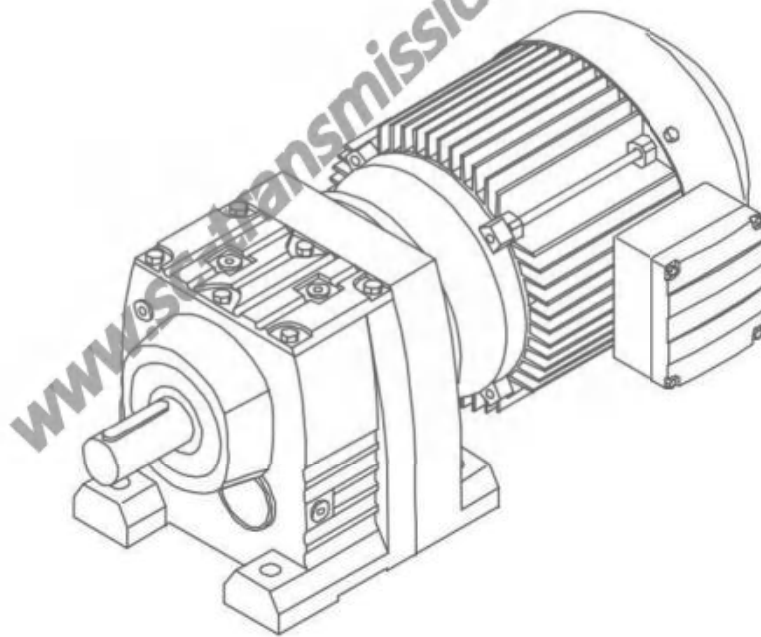
工作机额定功率 P_2 的确定: *) 按最大扭矩确定额定功率。**) 检验热功率是绝对必要的。

起动次数/每小时	日带载运行时间(小时)		
	≤0.5h	0.5-10h	>10h
<10	1.00	1.00	1
<100	1.15	1.25	1.4
<500	1.25	1.4	1.7

环境温度	10℃	20℃	30℃	40℃	50℃
环境温度系数 f_3	0.88	1.00	1.15	1.35	1.65

R系列斜齿轮减速机

R helical gear motor



R系列斜齿轮减速机/R helical geared motors

型号说明 Model Notes

减速机符号说明



R	F	67	II	D	80	N	4	BMG	HF	TF	128.97	M1	180°
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1 产品代码 R-斜齿轮减速机 F-平行轴-斜齿轮减速机 K-斜齿轮-伞齿轮减速机 S-斜齿轮-蜗轮蜗杆减速机	2 装配型式 无代码-底脚安装 F-法兰安装 ..F-底脚法兰安装 M-法兰安装带加长轴承箱 X-底脚安装单级传动 XF-法兰安装单级传动	3 减速机规格号 67--减速机规格号为67	4 法兰盘大小 无代码--无法兰,或只有一种法兰,或一种以上法兰中的最小法兰 II--两种法兰中的大法兰,三种法兰中的中法兰 III--三种法兰中的最大法兰	5 电动机 D--三相异步电动机(IP54) YB--隔爆型三相异步电动机 YGP--铝壳变频调速三相异步电动机 YZP--冶金、起重用变频调速三相异步电动机 YVP--变频调速三相异步电动机 YD--变频多速三相异步电动机	6 电动机规格代号 80--电机中心高为80mm	7 电动机定子铁心长度代号 D、K、N、S、M、ML、L	8 电动机极数 4--电动机极数为4	9 制动器 无代码--无制动器 BMG--制动器	10 手动释放装置 无代码--无手动释放装置 HF--手动释放锁在制动释放位置 HR--手动释放自动返回制动位置	11 电机热保护 无代码--无电机热保护 TF--热敏电阻保护装置 PTC热敏电阻 TH--恒温器保护装置 双金属片开关	12 减速机传动比 128.97--减速机传动比为128.97	13 安装位置 M--安装型式图中M1位置	14 接线盒位置 无代码--安装型式图中0°位置 180°--安装型式图中180°位置

Code Introduction

1 Product Code R--Helical Geared Motor F--Parallel Shaft-Helical Geared Motor K--Helical-Bevel Geared Motor S--Helical-Worm Geared Motor	2 Installation type No Code--Feet-mounted F--Flange-mounted ..F--Feet and Flange-mounted M--Flange-mounted with extended bearing housing X--Single-stage Feet-mounted XF--Single-stage Flange-mounted	3 Gear Unit Size 67--Gear Unit Size 67	4 Flange Size I--No Code--No Flange or Only One Flange or The Smallest Flange II--Second Bigger Flange III--Biggest Flange	5 Electric Motor D--Three Phase Asynchronous Motor(IP 54) YB--Flame-proof Three Phase Asynchronous Motor YGP--Aluminum Shell Three Phase Asynchronous Motor YZP--Metallurgy Hoist Frequency Variable Motor YVP--Frequency Variable Three Phase Motor YD--Multi Speed Three Phase Motor	6 Frame Size 80--Motor Center Height 80mm	7 Stator Length D、K、N、S、M、ML、L	8 Number of Poles 4--4 Poles	9 Brake No Code--No Brakes BMG--Brakes	10 Brake Release No Code--No Brake Release HF--Manual release(lock in the brake release position) Brake Release HR--Manual release(automatic braking position)	11 Thermal Protection No Code--No Thermistor TF--Thermistor Sensor TF--Thermistor protection (PTC thermistor) TH--Thermostat protection (Bimetal switch)	12 Ratio 128.97--Ratio 128.97	13 Mounting Position M1--Mounting Position M1	14 Terminal Box Position No Code--Terminal Box Position is 0° 180° --Terminal Box Position is 180°
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R系列斜齿轮减速机/R helical geared motors

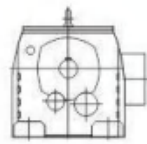
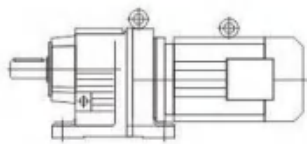
设计方案

Versions of geared motors



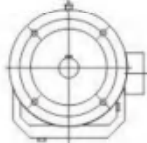
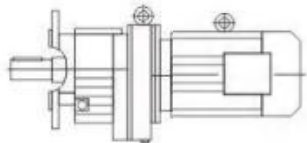
斜齿轮减速电机有以下设计方案：

The following types of helical-bevel motor can be supplied:



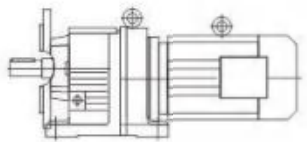
R..D..

底脚安装斜齿轮减速电机
Foot-mounted helical geared motor



RF..D

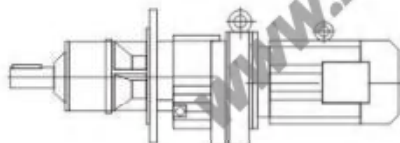
法兰安装斜齿轮减速电机
Flange-mounted helical geared motor



R..F D..

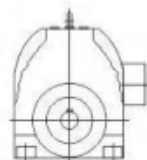
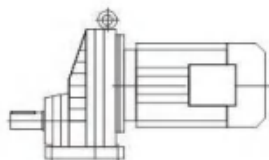
底脚法兰安装斜齿轮减速电机
(仅限于R17-R87)

Foot and Flange-mounted helical geared motor



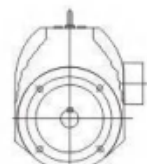
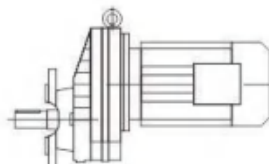
RM..D..

法兰安装带加长轴承箱的斜齿轮减速电机
Flange-mounted helical geared motor with extended bearing housing



RX..D..

底脚安装单级斜齿轮减速电机
Single-stage Foot-mounted helical geared motor

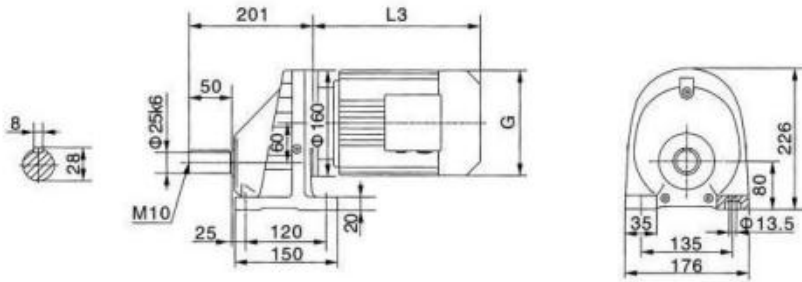


RXF..D..

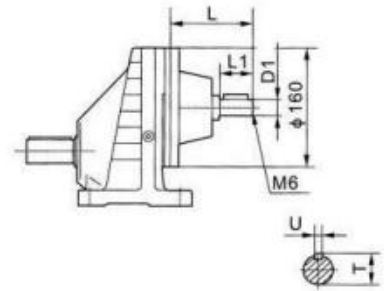
法兰安装单级斜齿轮减速电机
Single-stage Flange-mounted helical geared motor

R系列斜齿轮减速机/R helical geared motors

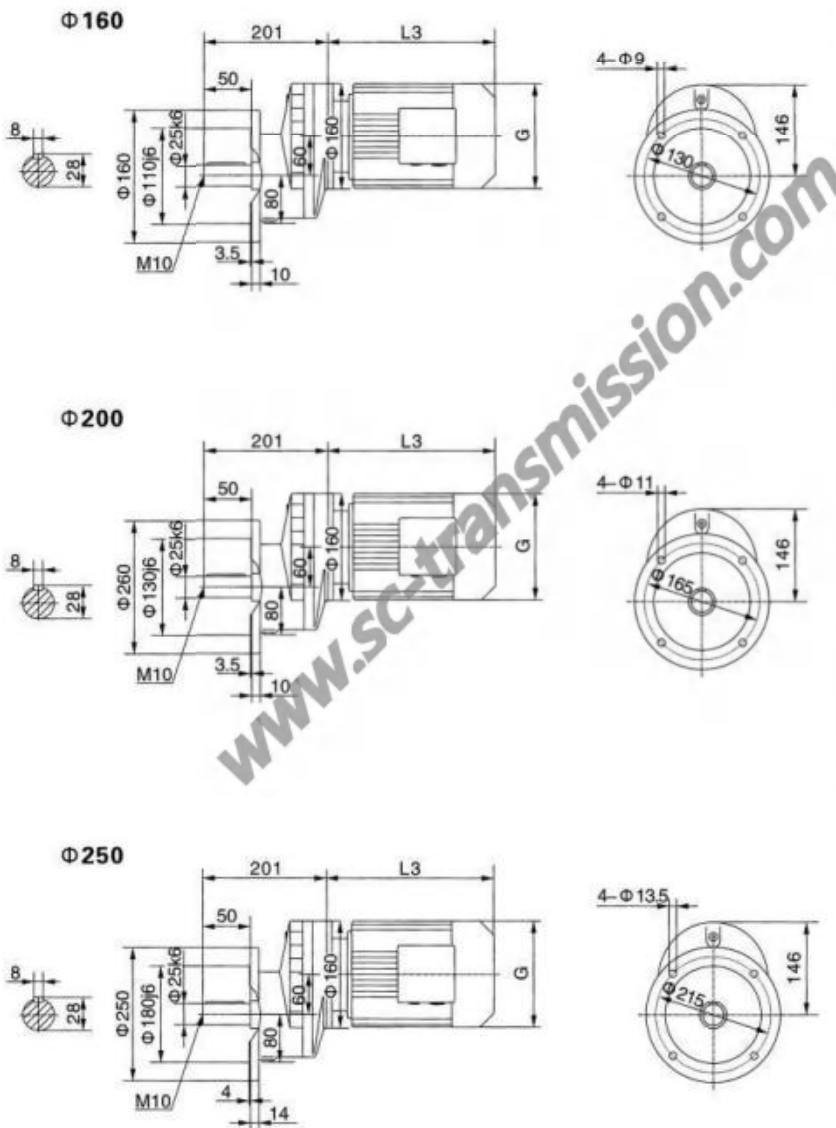
RX67



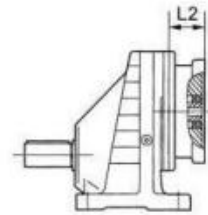
RX..S67



RXF67



电机需方配时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.



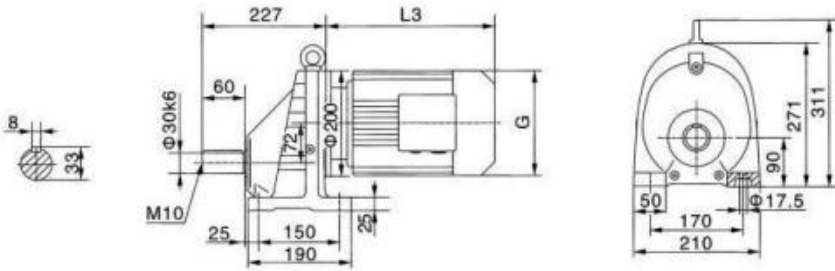
Y ₂ 电机座号 Motor size	63	71	80	90S	90L	100	112M	132S	132M	
功率/4P Power/(KW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3.0	4.0	5.5	7.5	
L3	223	245	278	304	328	350	380	425	461	
G	130	145	175	195	195	215	240	275	275	
L2	45	55	80	80	80	100	100	110	110	

注：“RX..”表示RX、RFX

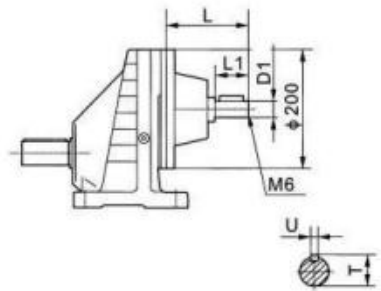
Note：“RX..”mean RX、RFX

R系列斜齿轮减速机/R helical geared motors

RX77

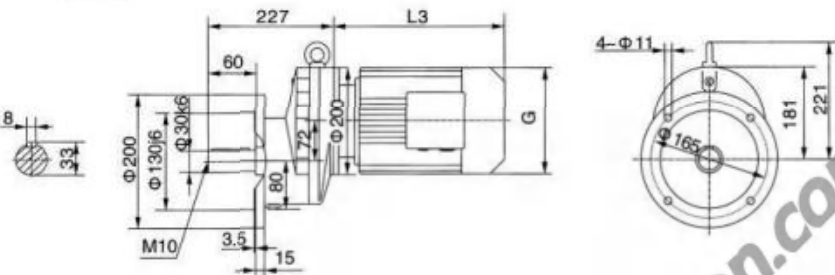


RX..S77



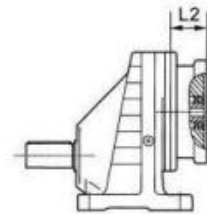
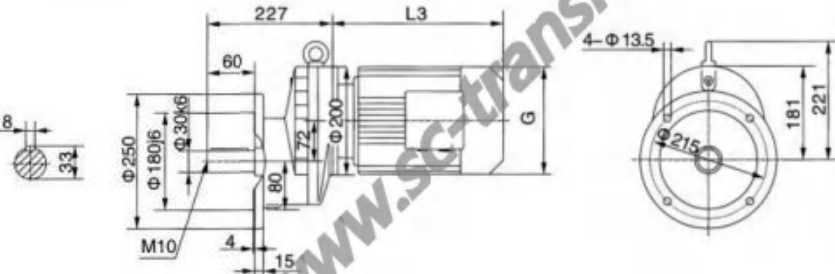
RXF77

Φ200



电机需方配时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.

Φ250



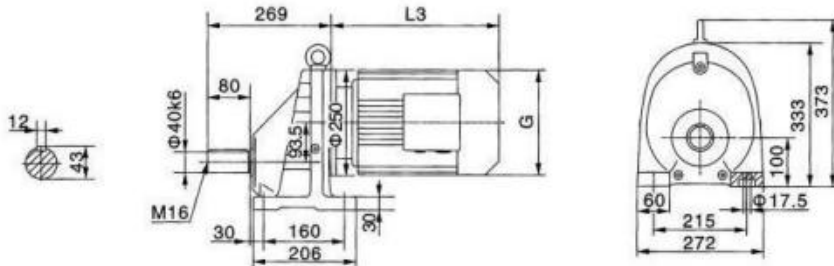
Y ₂ 电机机座号 Motor size	90S	90L	100	112M	132S	132M	160M	
功率/4P Power/(KW)	1.1	1.5	2.2 3.0	4.0	5.5	7.5	11	
L3	304	328	350	380	425	461	524	
G	195	195	215	240	275	275	330	
L2	80	80	100	100	110	110	133	

注：“RX..”表示RX、RFX Note:“RX..”mean RX、RFX

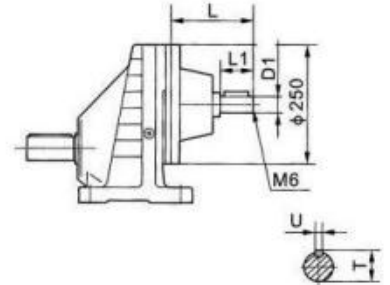
R系列斜齿轮减速机/R helical geared motors



RX87

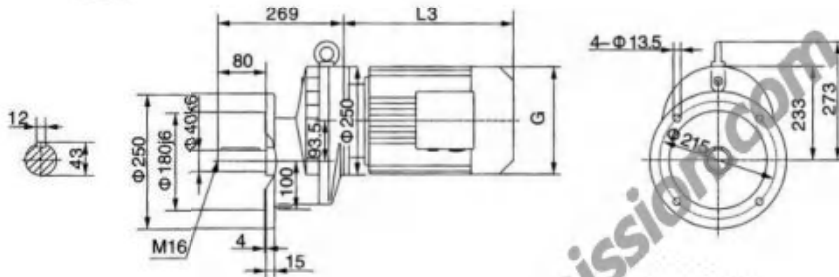


RX..S87

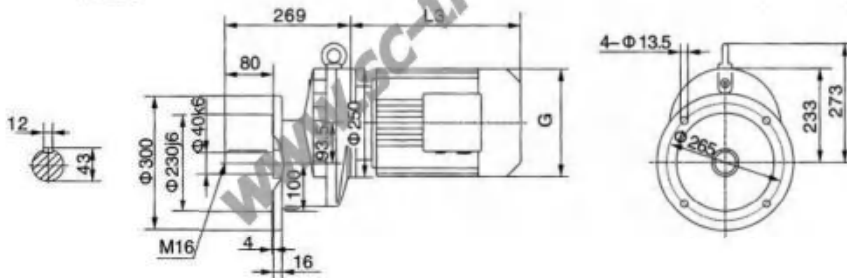


RXF87

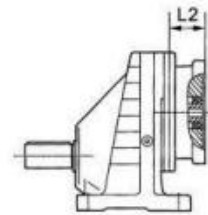
$\Phi 250$



$\Phi 300$



电机需方配时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.

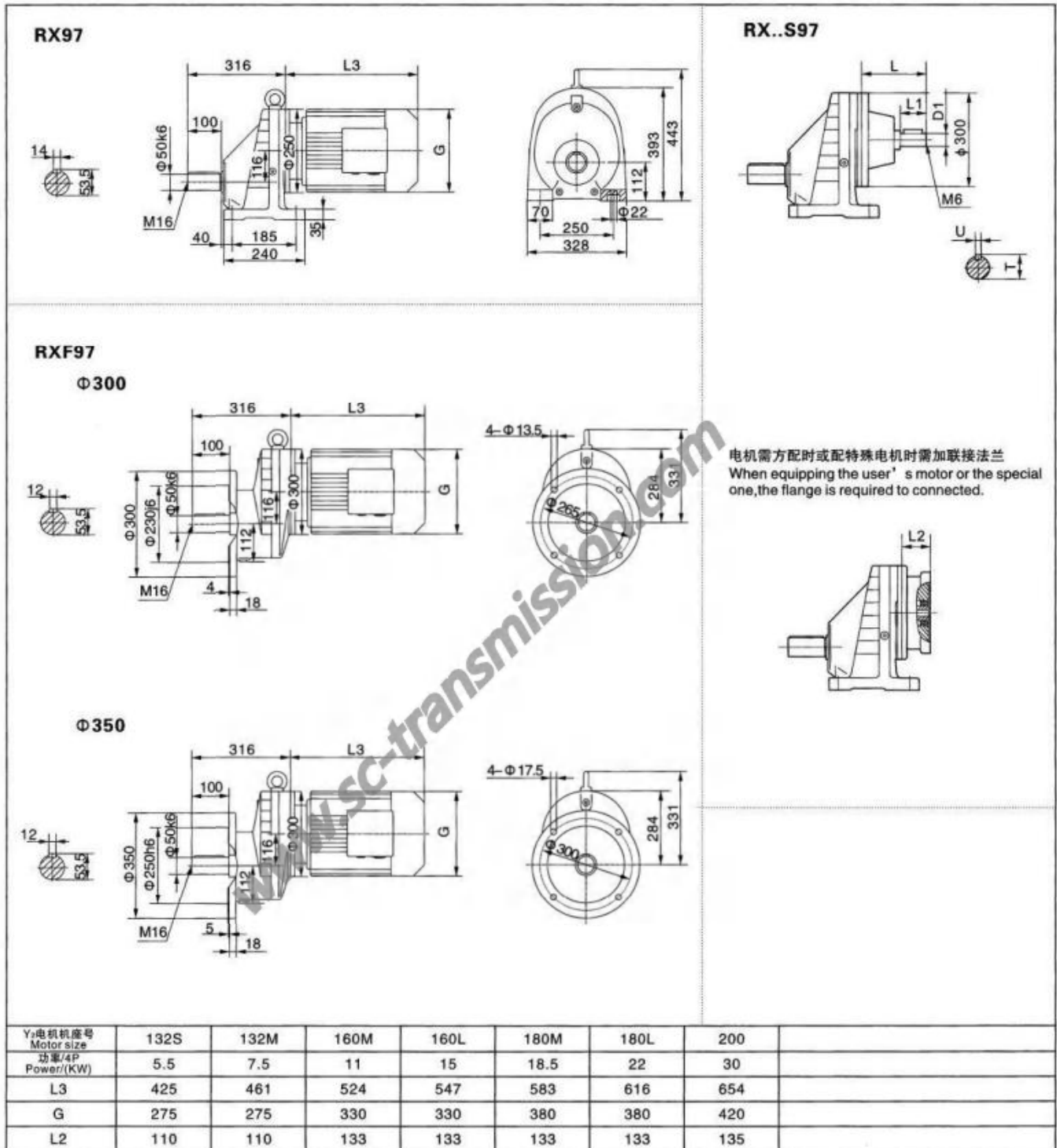


Y:电机机座号 Motor size	100	112M	132S	132M	160M	160L	180M	180L	
功率/4P Power/(KW)	2.2 3.0	4.0	5.5	7.5	11	15	18.5	22	
L3	350	380	425	461	524	547	583	616	
G	215	240	275	275	330	330	380	380	
L2	100	100	110	110	133	133	133	133	

注：“RX..”表示RX、RXF

Note：“RX..”mean RX、RXF

R系列斜齿轮减速机/R helical geared motors

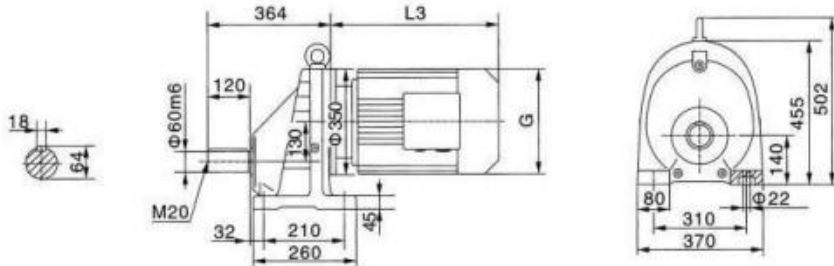


注：“RX..”表示RX、RXF Note:“RX..”mean RX、RXF

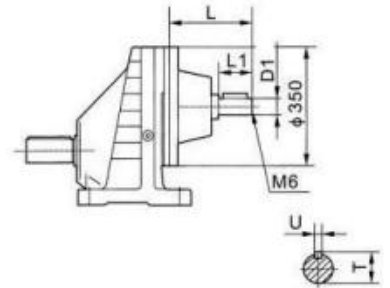
R系列斜齿轮减速机/R helical geared motors



RX107

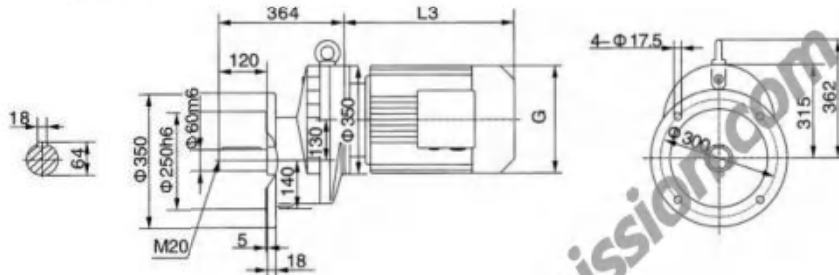


RX..S107



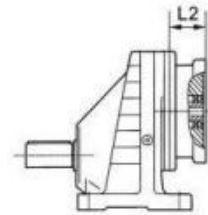
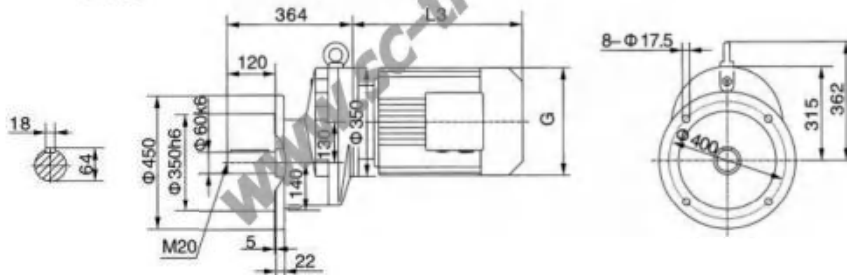
RXF107

Φ350



电机需方配时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.

Φ450



Y ₂ 电机机座号 Motor size	132M	160M	160L	180M	180L	200	225S	225M	
功率/4P Power/(KW)	7.5	11	15	18.5	22	30	37	45	
L3	461	524	547	583	616	654	680	702	
G	275	330	330	380	380	420	470	470	
L2	110	133	133	133	133	135	170	170	

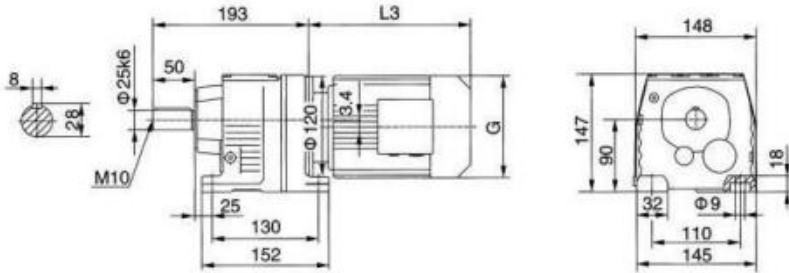
注: "RX.." 表示RX、RFX

Note: "RX.." mean RX、RFX

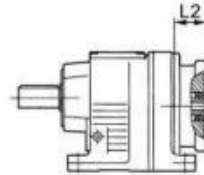
R系列斜齿轮减速机/R helical geared motors



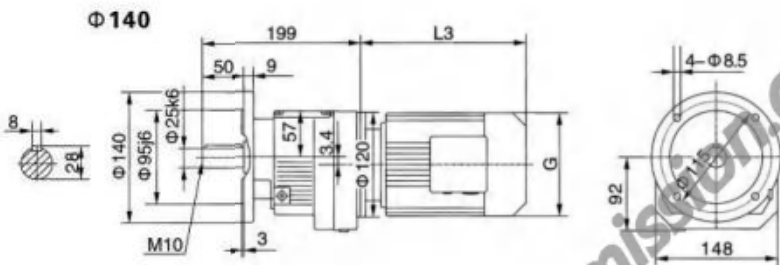
R27



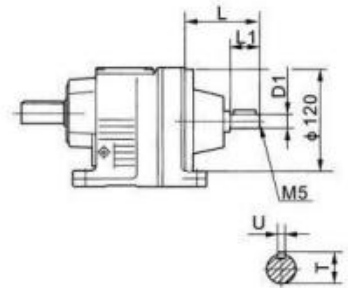
电机需方配时或配特殊电机时需加联接法兰
When equipping the user's motor or the special one, the flange is required to be connected.



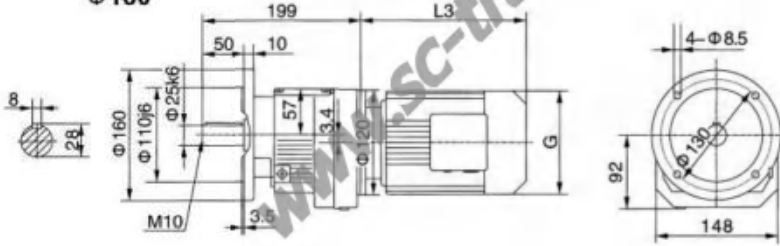
RF27



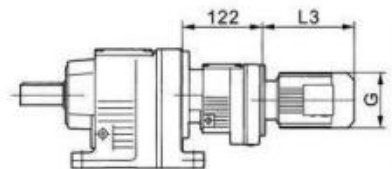
R..S27



Ø160



R..27R17



Y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 3.0			
L3	235	245	278	304	328	340			
G	130	145	175	195	195	215			
L2	45	92	80	80	80	80			

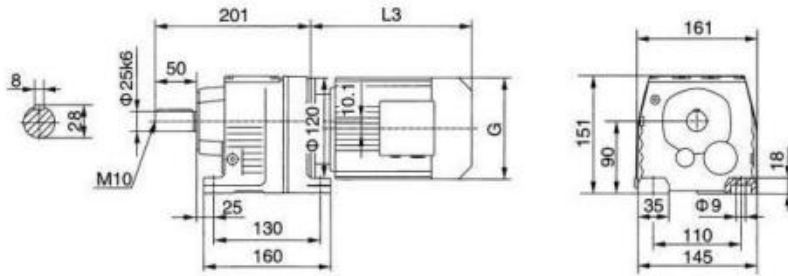
注：“R..”表示R、RF

Note：“R..”mean R、RF

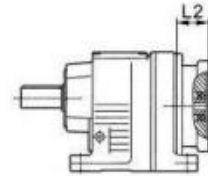
R系列斜齿轮减速机/R helical geared motors



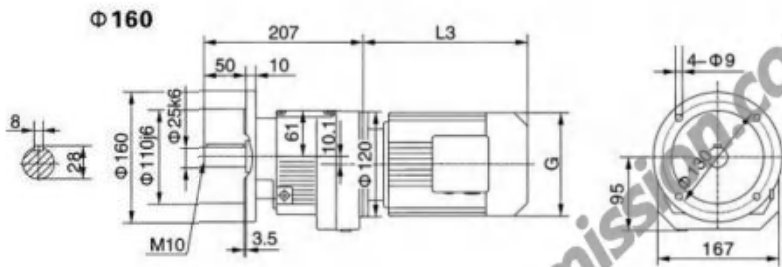
R37



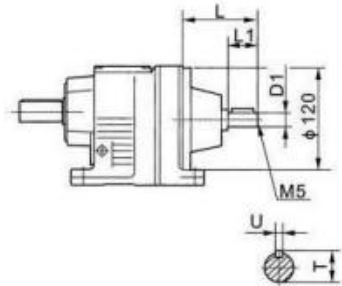
电机需方配时或配特殊电机时需加联接法兰
When equipping the user's motor or the special one, the flange is required to be connected.



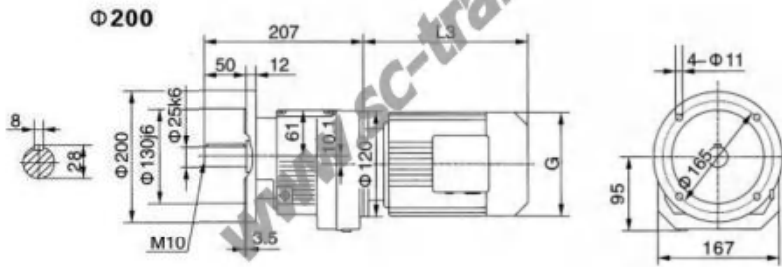
RF37



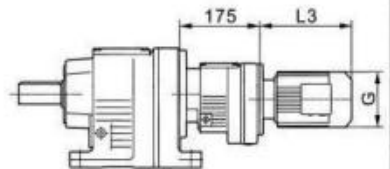
R..S37



Φ200



R..37R17



Y ₂ 电机机座号 Motor size	63	71	80	90S	90L	100L		
功率/4P Power/(KW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3.0		
L3	235	245	278	304	328	340		
G	130	145	175	195	195	215		
L2	45	92	80	80	80	80		

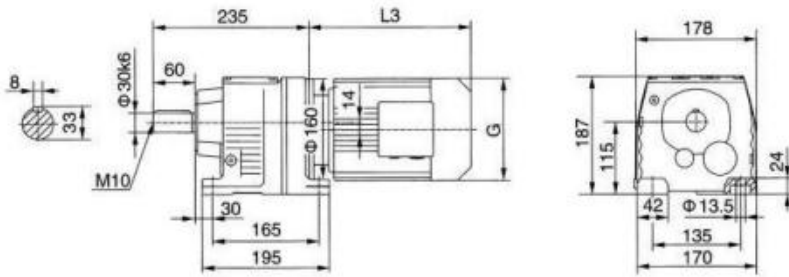
注：“R..”表示R、RF

Note：“R..”mean R、RF

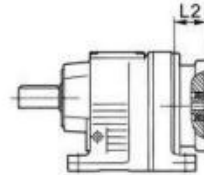
R系列斜齿轮减速机/R helical geared motors



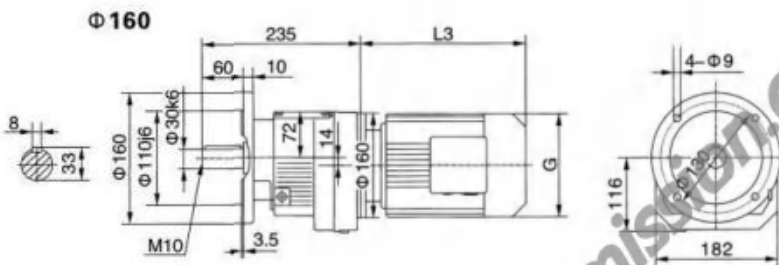
R47



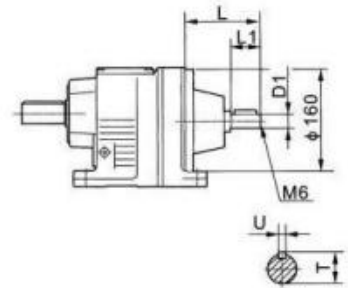
电机需方配时或配特殊电机时需加联接法兰
When equipping the user's motor or the special one, the flange is required to be connected.



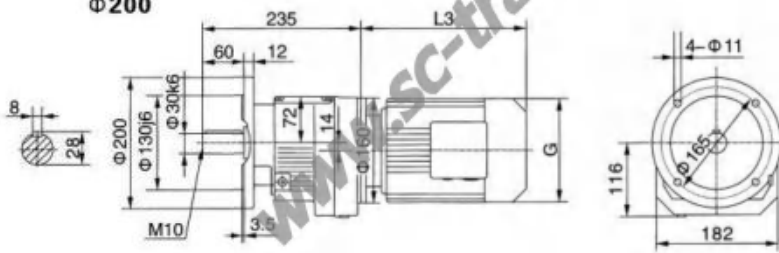
RF47



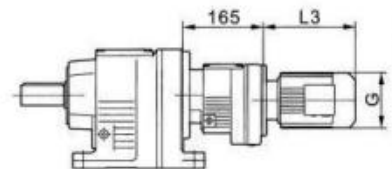
R..S47



Ø200



R..47R37



Y ₂ 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 3.0	4.0	5.5	
L3	223	245	278	304	328	340	380	425	
G	130	145	175	195	195	215	240	275	
L2	45	55	80	80	80	100	100	110	

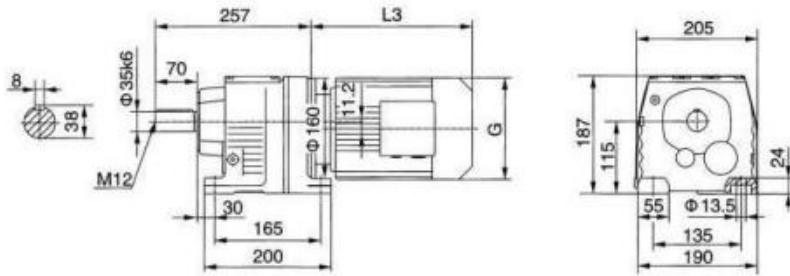
注：“R..”表示R、RF

Note：“R..”mean R、RF

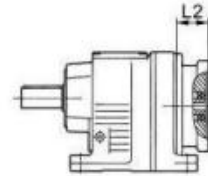
R系列斜齿轮减速机/R helical geared motors



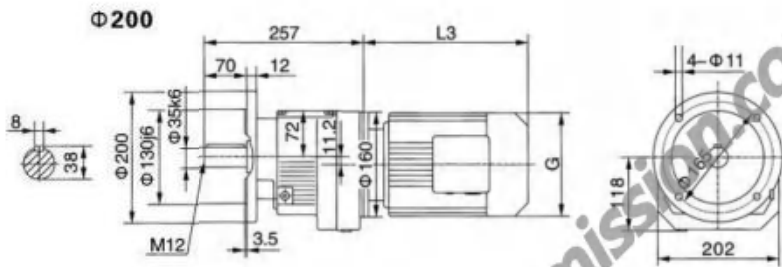
R57



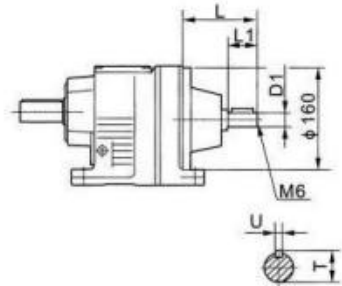
电机需方配时或配特殊电机时需加联接法兰
When equipping the user's motor or the special one, the flange is required to be connected.



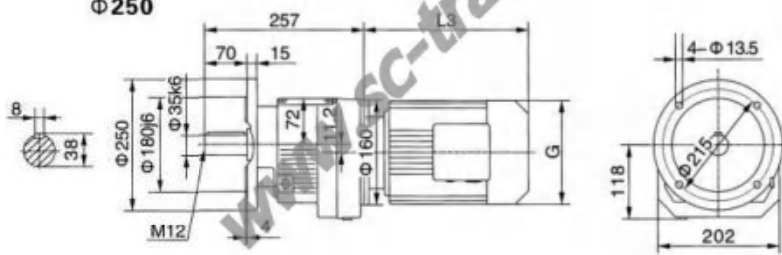
RF57



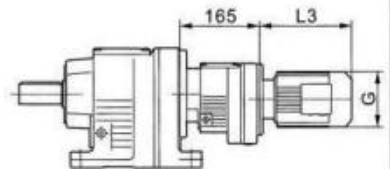
R..S57



Φ250



R..57R37



Y:电机机座号 Motor size	63	71	80	90S	90L	100L	112M	132S	132M	
功率/4P Power/(KW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3.0	4.0	5.5	7.5	
L3	223	245	278	304	328	340	380	425	461	
G	130	145	175	195	195	215	240	275	275	
L2	45	55	80	80	80	100	100	110	110	

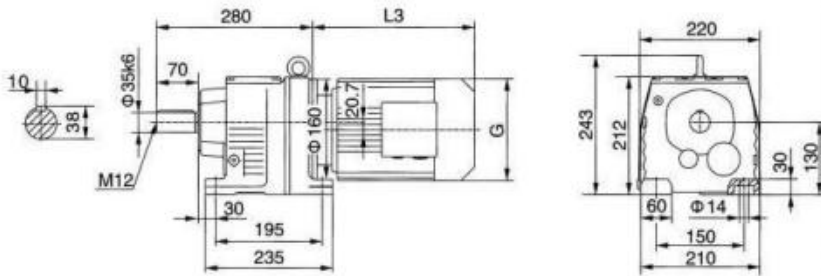
注：“R..”表示R、RF

Note:“R..”mean R、RF

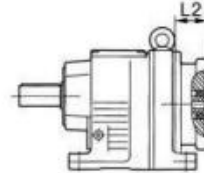
R系列斜齿轮减速机/R helical geared motors



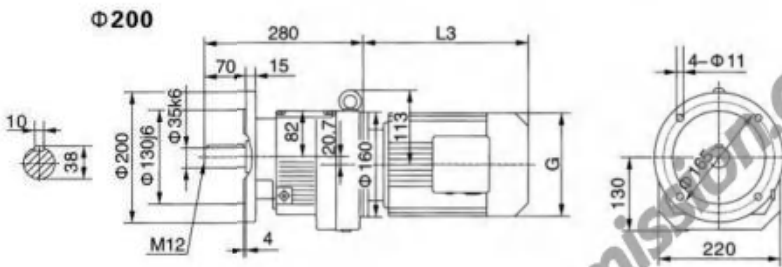
R67



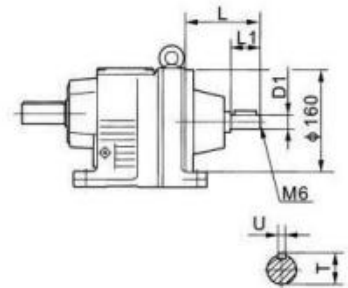
电机需方配时或配特殊电机时需加联接法兰
When equipping the user's motor or the special one, the flange is required to be connected.



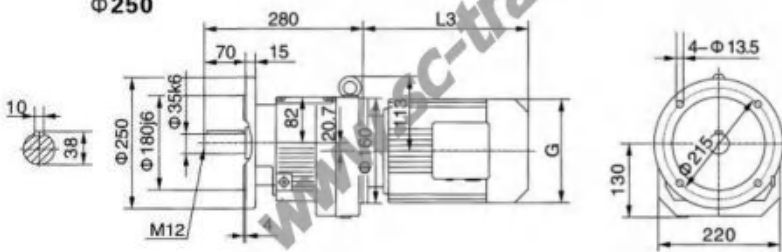
RF67



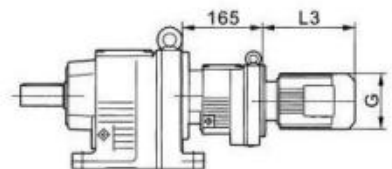
R..S67



250



R..67R37



Y电机机座号 Motor size	63	71		80		90S	90L	100L		112M	132S	132M	
功率/4P Power/(KW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5	
L3	223	245		278		304	328	350		380	425	461	
G	130	145		175		195	195	215		240	275	275	
L2	45	55		80		80	80	100		100	110	110	

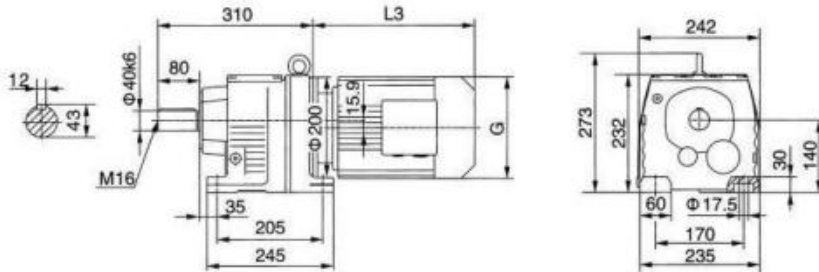
注：“R..”表示R、RF

Note：“R..”mean R、RF

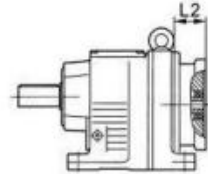
R系列斜齿轮减速机/R helical geared motors



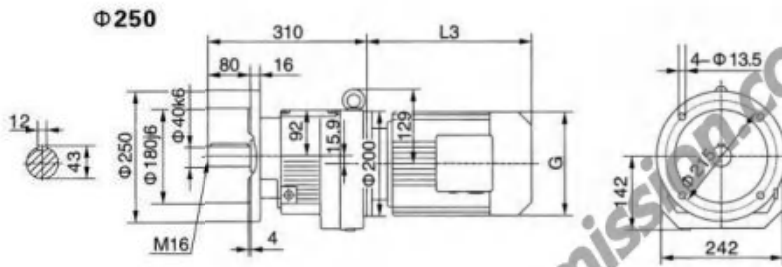
R77



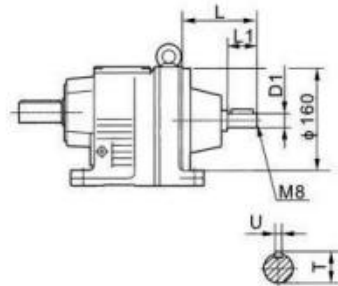
电机需方配时或配特殊电机时需加联接法兰
When equipping the user's motor or the special one, the flange is required to be connected.



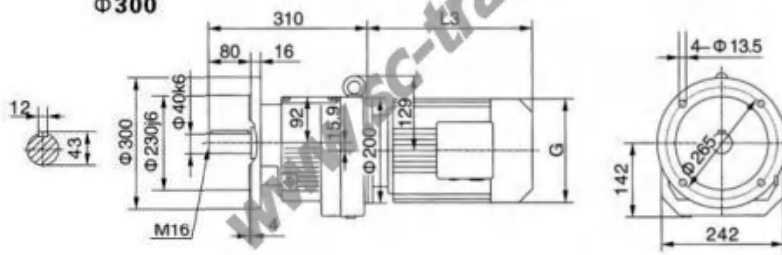
RF77



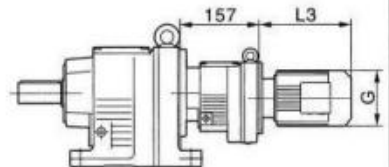
R..S77



Φ300



R..77R37



Ys电机机座号 Motor size	63	71	80	90S	90L	100L	112M	132S	132M	160M
功率/4P Power/(KW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3.0	4.0	5.5	7.5	11
L3	223	233	278	304	328	350	380	425	461	524
G	130	145	175	195	195	215	240	275	275	330
L2	45	55	80	80	80	100	100	110	110	133

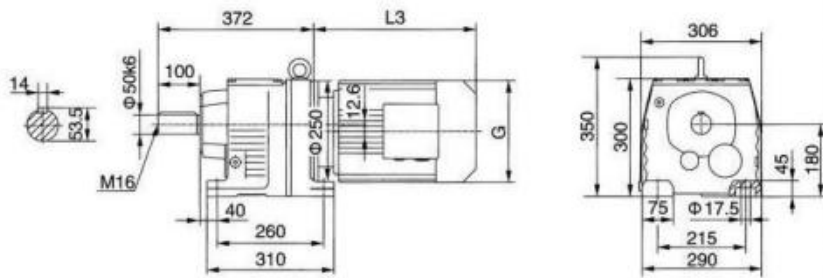
注：“R..”表示R、RF

Note：“R..”mean R、RF

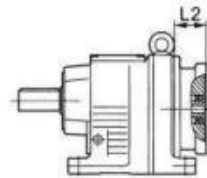
R系列斜齿轮减速机/R helical geared motors



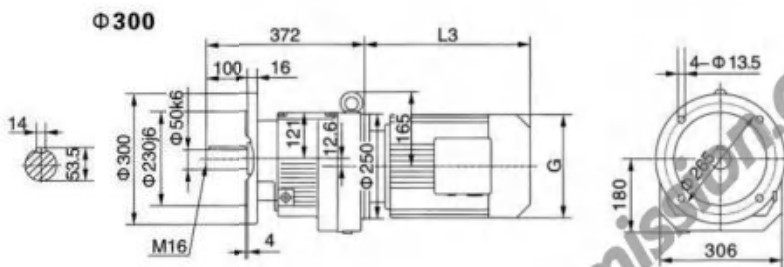
R87



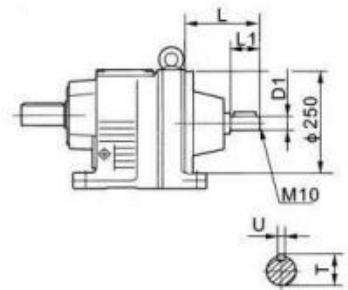
电机需方配时或配特殊电机时需加联接法兰
When equipping the user's motor or the special one, the flange is required to be connected.



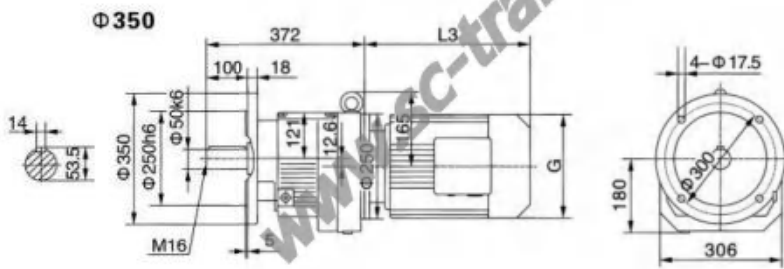
RF87



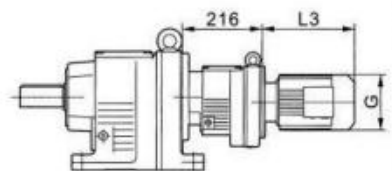
R..S87



350



R..87R57



Y=电机机座号 Motor size	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
功率/4P Power/(KW)	0.55 0.75	1.1	1.5	2.2 3.0	4.0	5.5	7.5	11	15	18.5	22
L3	246	280	304	350	380	425	461	524	547	583	616
G	175	195	195	215	240	275	275	330	330	380	380
L2	80	80	80	100	100	110	110	133	133	133	133

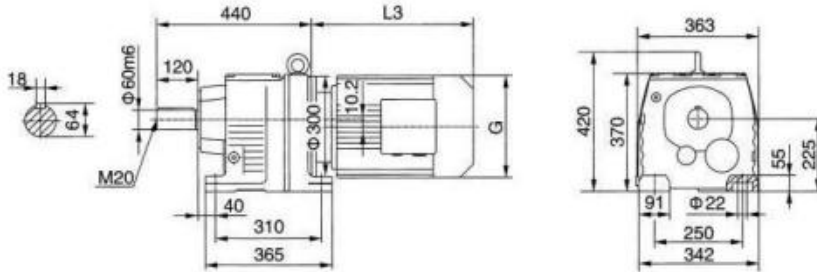
注：“R..”表示R、RF

Note：“R..”mean R、RF

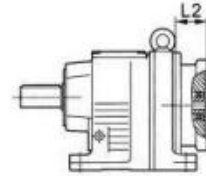
R系列斜齿轮减速机/R helical geared motors



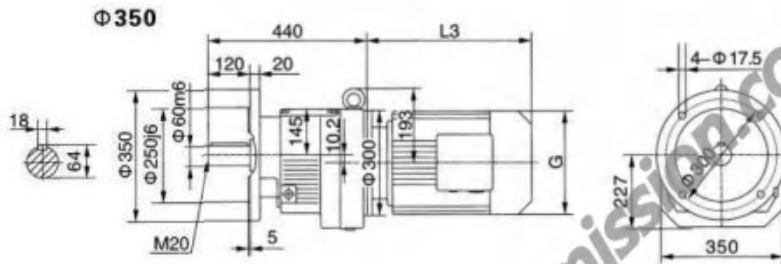
R97



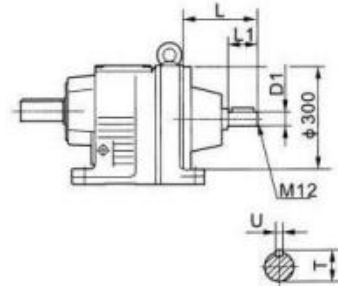
电机需方配时或配特殊电机时需加联接法兰
When equipping the user's motor or the special one, the flange is required to be connected.



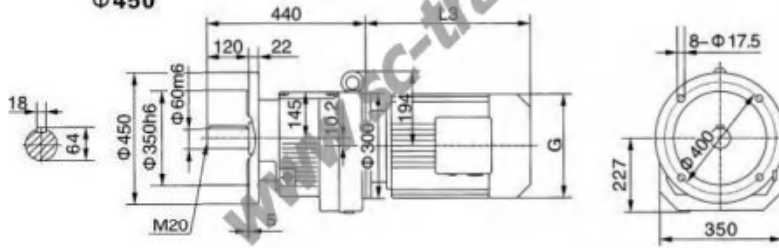
RF97



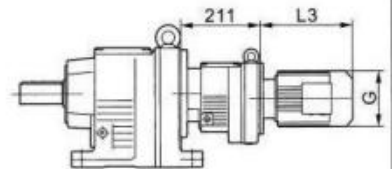
R..S97



Φ450



R..97R57



Y-电机机座号 Motor size	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L	200		
功率/4P Power/(KW)	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5	11	15	18.5	22	30
L3	246	280	304	315	334	425	461	524	547	555	588	654		
G	175	195	195	215	240	275	275	330	330	380	380	420		
L2	107	107	107	100	100	110	110	133	133	133	133	135		

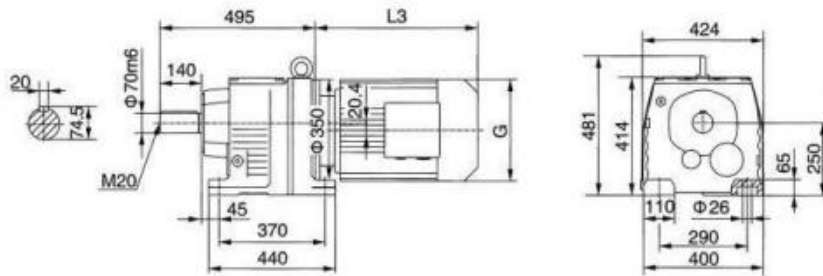
注：“R..”表示R、RF

Note：“R..”mean R、RF

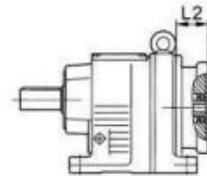
R系列斜齿轮减速机/R helical geared motors



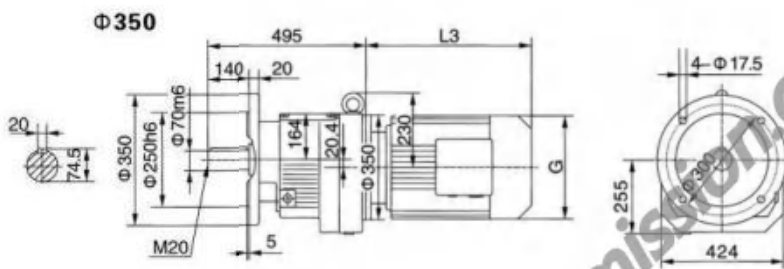
R107



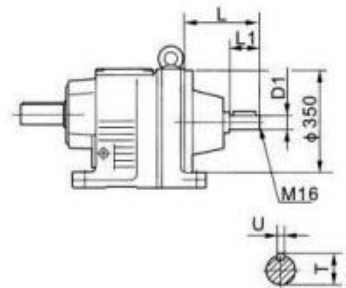
电机需方配时或配特殊电机时需加联接法兰
When equipping the user's motor or the special one, the flange is required to be connected.



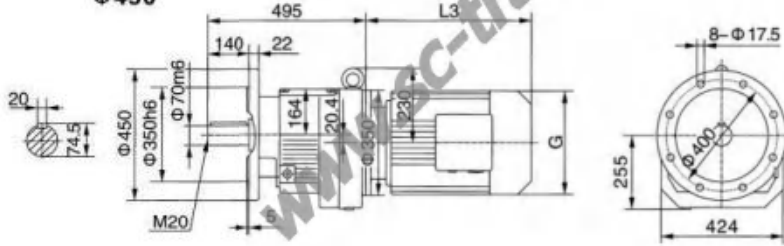
RF107



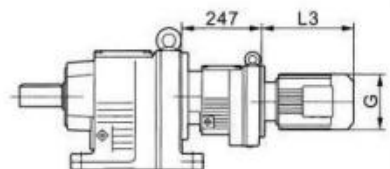
R..S107



φ450



R..107R77



Y:电机机座号 Motor size	100L	112M	132S	132M	160M	160L	180M	180L	200	225S	225M	
功率/4P Power/(KW)	2.2 3.0	4.0	5.5	7.5	11	15	18.5	22	30	37	45	
L3	318	334	386	422	504	519	555	588	654	680	702	
G	215	240	275	275	330	330	380	380	420	470	470	
L2	100	100	110	110	133	133	133	133	135	143	143	

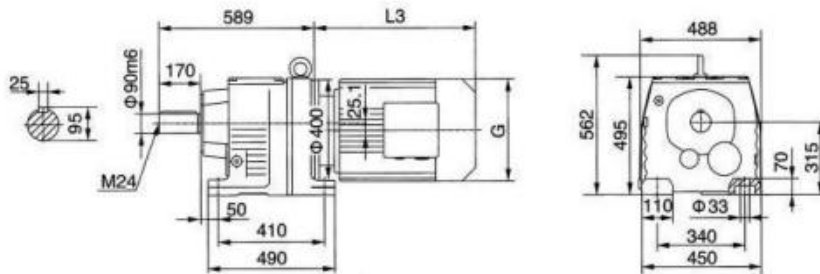
注：“R..”表示R、RF

Note：“R..”mean R、RF

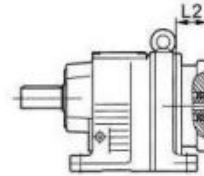
R系列斜齿轮减速机/R helical geared motors



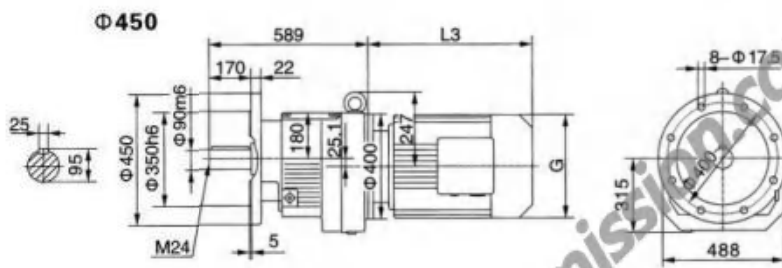
R137



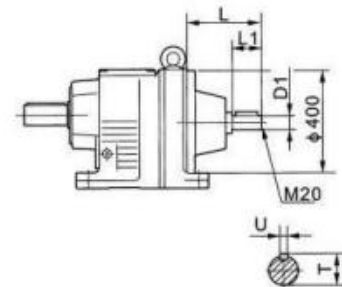
电机需方配时或配特殊电机时需加联接法兰
When equipping the user's motor or the special one, the flange is required to be connected.



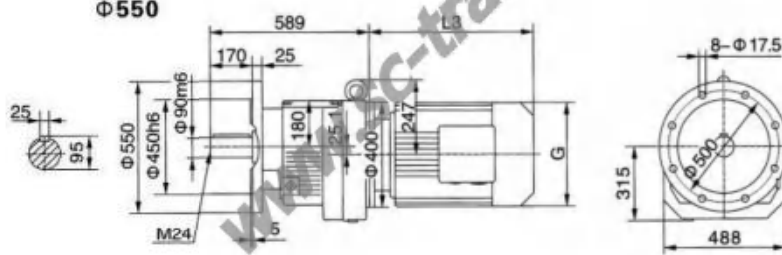
RF137



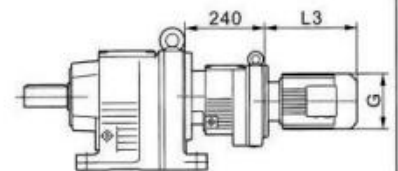
R..S137



$\Phi 550$



R..137R77



Y ₂ 电机机座号 Motor size	132S	132M	160M	160L	180M	180L	200	225S	225M	250	
功率/4P Power/(KW)	5.5	7.5	11	15	18.5	22	30	37	45	55	
L3	388	424	476	519	555	588	654	680	702	771	
G	275	275	330	330	380	380	420	470	470	510	
L2	92	92	123	123	123	123	144	143	143	170	

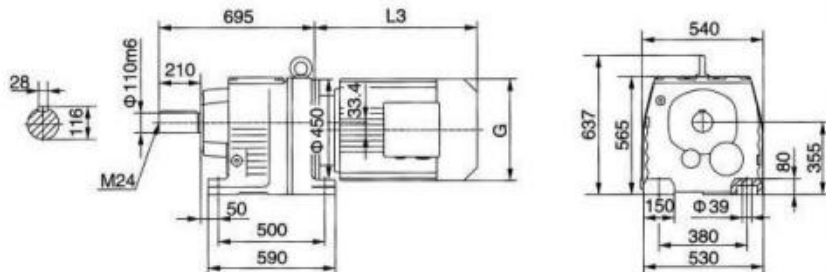
注：“R..”表示R、RF

Note：“R..”mean R、RF

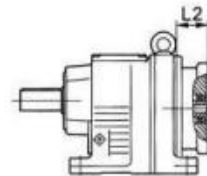
R系列斜齿轮减速机/R helical geared motors



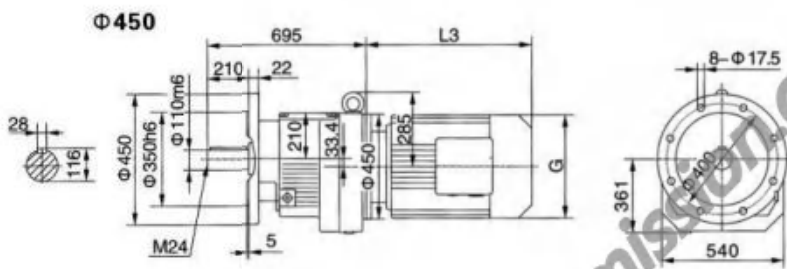
R147



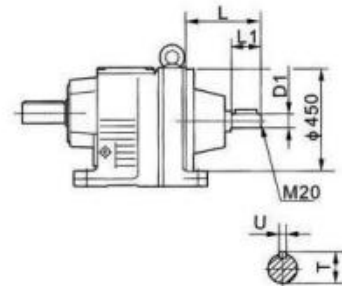
电机需方配时或配特殊电机时需加联接法兰
When equipping the user's motor or the special one, the flange is required to be connected.



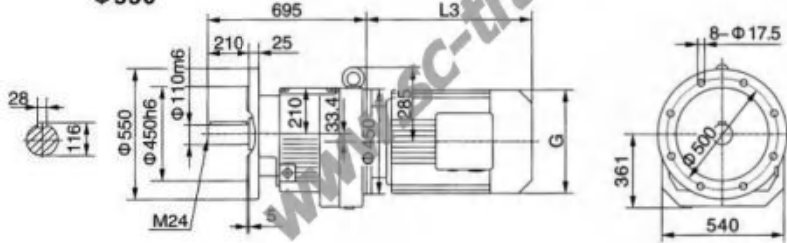
RF147



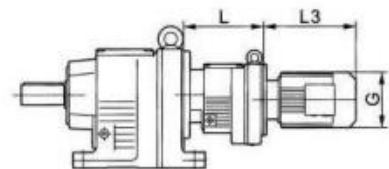
R..S147



Φ550



R..147R87(R77)



	R..147R77组合	R..147R87组合
L	232	280

Y:电机机座号 Motor size	160M	160L	180M	180L	200	225S	225M	250	280S	280M	
功率/4P Power/(KW)	11	15	18.5	22	30	37	45	55	75	90	
L3	567	602	583	616	654	674	696	775	845	845	
G	330	330	380	380	420	470	470	510	580	580	
L2	125	125	125	125	147	162	162	170	170	170	

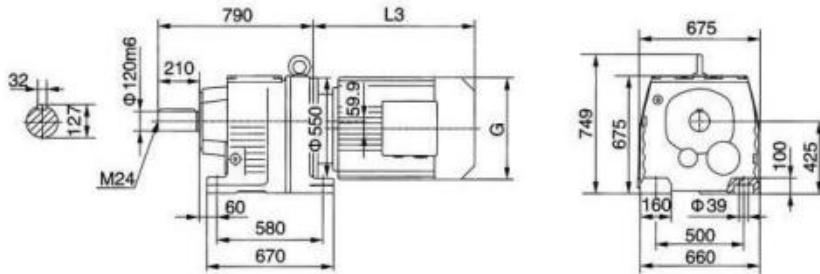
注：“R..”表示R、RF

Note:“R..”mean R、RF

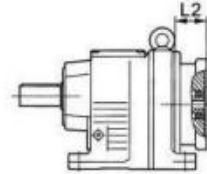
R系列斜齿轮减速机/R helical geared motors



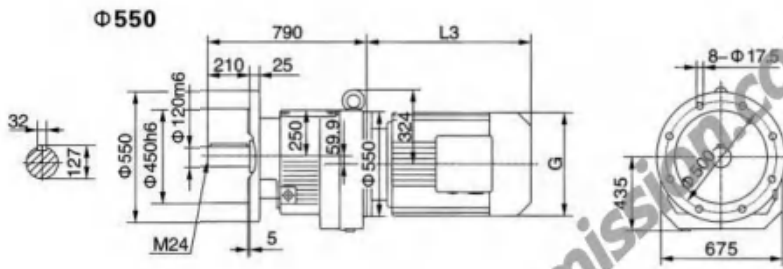
R167



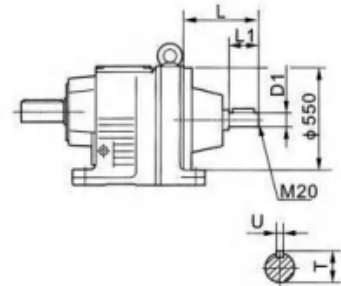
电机需方配时或配特殊电机时需加联接法兰
When equipping the user's motor or the special one, the flange is required to be connected.



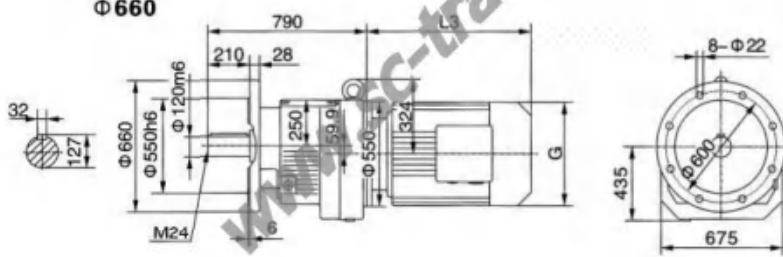
RF167



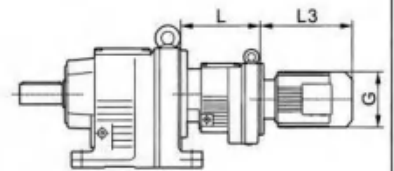
R..S167



Φ660



R..167R97(R107)



	R..167R97组合	R..167R107组合
L	325	382

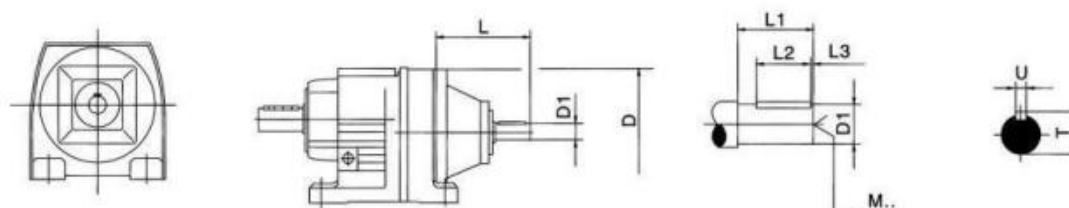
Y:电机机座号 Motor size	160M	160L	180M	180L	200	225S	225M	250	280S	280M	315S	315M	315L
功率/4P Power/(KW)	11	15	18.5	22	30	37	45	55	75	90	110	132	160
L3	567	602	635	666	642	669	691	770	828	879	1100	1130	1360
G	330	330	380	380	420	470	470	510	580	580	645	645	645
L2	125	125	125	125	147	145	145	170	170	170	-	-	-

注：“R..”表示R、RF

Note：“R..”mean R、RF

R系列斜齿轮减速机/R helical geared motors

R..AD..



		D	L	D1	L1	L3	L2	T	U	M
R..27 R..37	AD1	120	102	16	40	4	32	18	5	M5
	AD2		130	19	40	4	32	21.5	6	M6
	AD2	160	123	19	40	4	32	21.5	6	M6
	AD3		159	24	50	5	40	27	8	M8
R..77	AD2	200	116	19	40	4	32	21.5	6	M6
	AD3		151	24	50	5	40	27	8	M8
	AD4		224	38	80	5	70	41	10	M12
R..87	AD2	250	111	19	40	4	32	21.5	6	M6
	AD3		156	28	60	5	50	31	8	M10
	AD4		219	38	80	5	70	41	10	M12
	AD5		292	42	110	10	70	45	12	M16
R..97	AD3	300	151	28	60	5	50	31	8	M10
	AD4		214	38	80	5	70	41	10	M12
	AD5		287	42	110	10	70	45	12	M16
	AD6		327	48	110	10	80	51.5	14	M16
R..107	AD3	350	145	28	60	5	50	31	8	M10
	AD4		208	38	80	5	70	41	10	M12
	AD5		281	42	110	10	70	45	12	M16
	AD6		321	48	110	10	80	51.5	14	M16
R..137	AD4	400	201	38	80	5	70	41	10	M12
	AD5		274	42	110	10	70	45	12	M16
	AD6		314	48	110	10	80	51.5	14	M16
	AD7		308	55	110	10	90	59	16	M20
R..147	AD4	450	193	38	80	5	70	41	10	M12
	AD5		266	42	110	10	70	45	12	M16
	AD6		306	48	110	10	80	51.5	14	M16
	AD7		300	55	110	10	90	59	16	M20
	AD8		383	70	140	15	110	74.5	20	M20
R..167	AD5	550	258	42	110	10	70	45	12	M16
	AD6		298	48	110	10	80	51.5	14	M16
	AD7		292	55	110	10	90	59	16	M20
	AD8		374	70	140	15	110	74.5	20	M20

R系列斜齿轮减速机/R helical geared motors

R.AM.

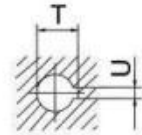
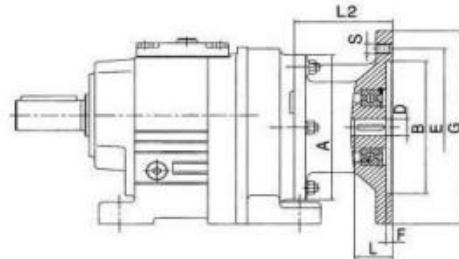
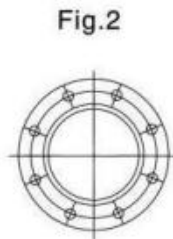
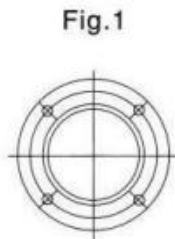


		Fig	B	E	F	A	G	S	L2	D	L	T1	U1
R..27 R..37	AM63	1	95	115	3.5	120	140	M8	45	11	23	12.8	4
	AM71 ¹⁾		110	130			160		92	14	30	16.3	5
	AM80 ¹⁾		130	165	4.5		200	M10	80	19	40	21.8	6
	AM90 ¹⁾									24	50	27.3	8
R..47 R..57 R..67	AM63	1	95	115	3.5	160	140	M8	45	11	23	12.8	4
	AM71		110	130			160		55	14	30	16.3	5
	AM80		130	165	4.5		200	M10	80	19	40	21.8	6
	AM90									24	50	27.3	8
	AM100 ¹⁾		180	215	5		250	M12	100	28	60	31.3	8
	AM112 ¹⁾												
R..77	AM63	1	95	115	3.5	200	140	M8	45	11	23	12.8	4
	AM71		110	130			160		55	14	30	16.3	5
	AM80		130	165	4.5		200	M10	80	19	40	21.8	6
	AM90									24	50	27.3	8
	AM100 ¹⁾		180	215	5		250	M12	100	28	60	31.3	8
	AM112 ¹⁾												
	AM132S ¹⁾		230	265	5		300						
	AM132M ¹⁾												
AM132ML ¹⁾													
R..87	AM80	1	130	165	4.5	250	200	M10	80	19	40	21.8	6
	AM90									24	50	27.3	8
	AM100		180	215	5		250	M12	100	28	60	31.3	8
	AM112												
	AM132S		230	265	5		300						
	AM132M												
	AM132ML												
	AN160 ¹⁾		250	300	6		350	M16	133	42	110	45.3	12
AM180 ¹⁾	48	51.8				14							
R..97	AM100	1	180	215	5	300	250	M12	100	28	60	31.3	8
	AM112												
	AM132S		230	265	5		300						
	AM132M												
	AM132ML												
	AM160		250	300	6		350	M16	133	42	110	45.3	12
	AM180									48		51.8	14
	AM200		300	350	7		400	M16	135	55	140	59.3	16
AM225 ¹⁾	2	350				400				450		143	60

1) 如果安装在BR系列脚安装方式的减速机上，请检查尺寸G/2，它可能已突出平面
Dimension G/2 May protrude past foot mounting surface if mounted on s foot-mounted gear unit, please check.

R系列斜齿轮减速机/R helical geared motors

R..AM..

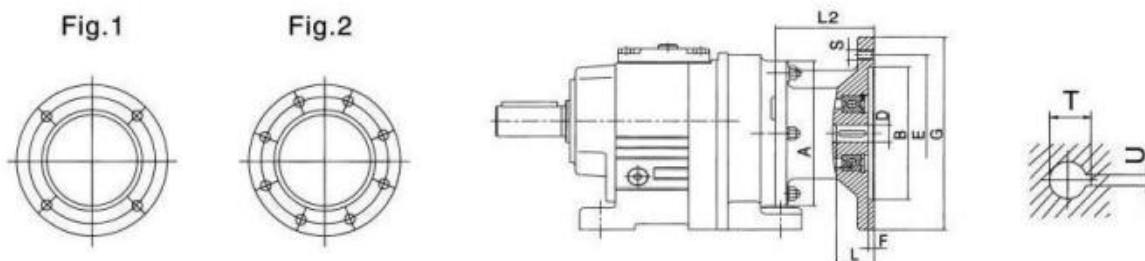
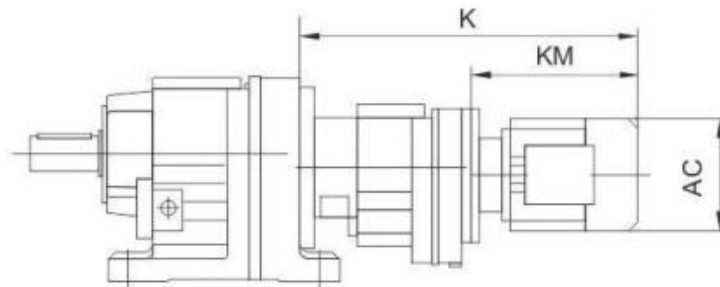


		Fig	B	E	F	A	G	S	L2	D	T	U	
R..107	AM100	1	180	215	5	350	250	M12	100	28	31.3	8	
	AM112												
	AM132S		230	265									
	AM132M												
	AM132ML	300	300	6	350		M16	133	42	45.3	12		
	AM160								48	51.8	14		
	AM180	300	350	7	400		135	55	59.3	16			
	AM200												
AM225	2	350	400	7	450	143	60	64.4	18				
R..137	AM132S	1	230	265	5	400	300	M12	92	38	41.3	10	
	AM132M												
	AM132ML		250	300			6	350	M16	123	42	45.3	12
	AM160										48	51.8	14
	AM180	300	350	7	400		144	55	59.3	16			
	AM200												
AM225	2	350	400	7	450	143	60	64.4	18				
R..147	AM132S	1	230	265	5	450	300	M12	125	38	41.3	10	
	AM132M												
	AM132ML		250	300			6	350	M16	125	42	45.3	12
	AM160										48	51.8	14
	AM180	300	350	7	400		147	55	59.3	16			
	AM200												
	AM225	2	350	400	7		450	162	60	64.4	18		
	AM250												
AM280	450	500	7	550	170	65	69.4	18					
R..167	AN160	1	250	300	6	550	350	M16	125	42	45.3	12	
	AM180												48
	AM200	300	350	7			400	147	55	59.3	16		
	AM225												
	AM250	2	350	400	7		450	145	60	64.4	18		
	AM280												
	450	500	7	550	170	65	69.4	18					



R系列斜齿轮减速机/R helical geared motors

R..R..



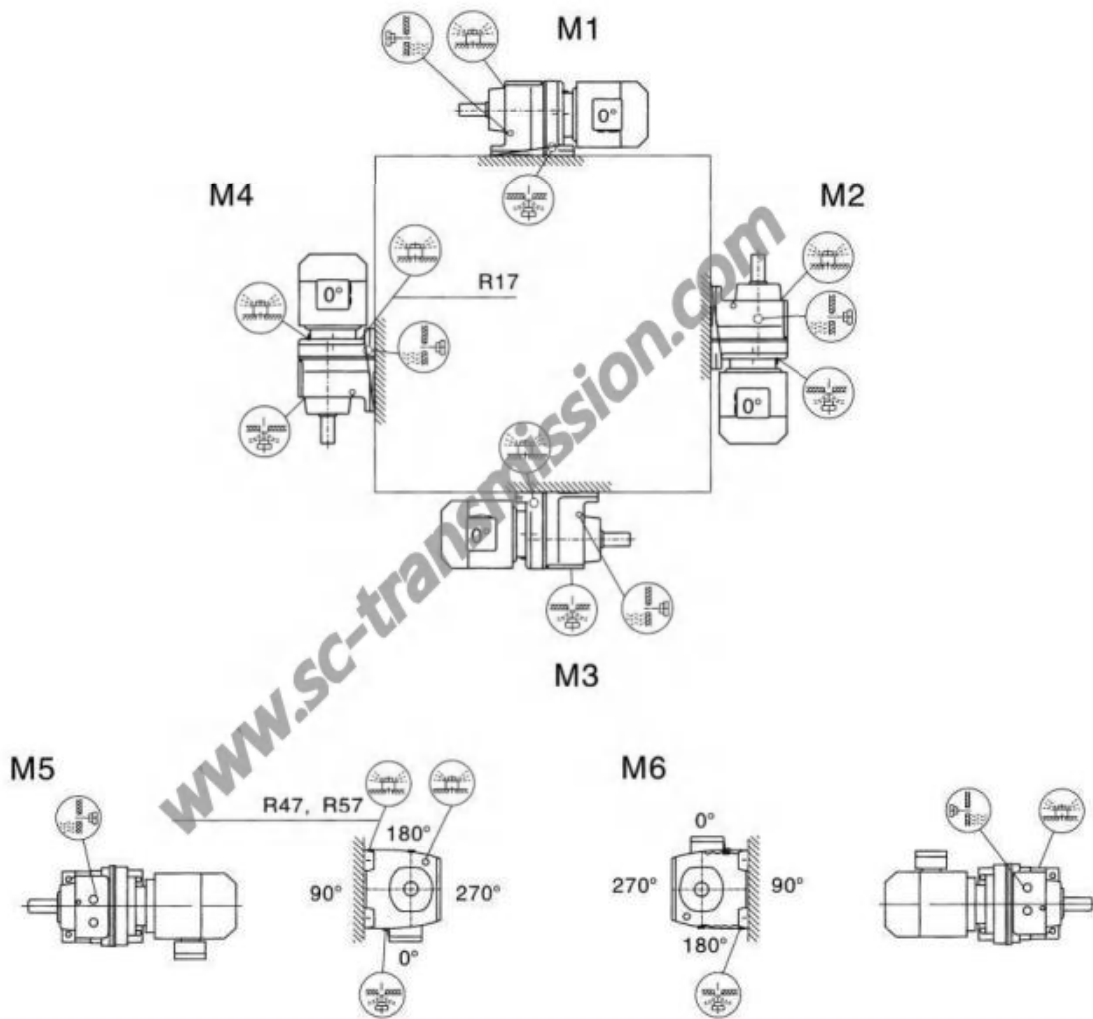
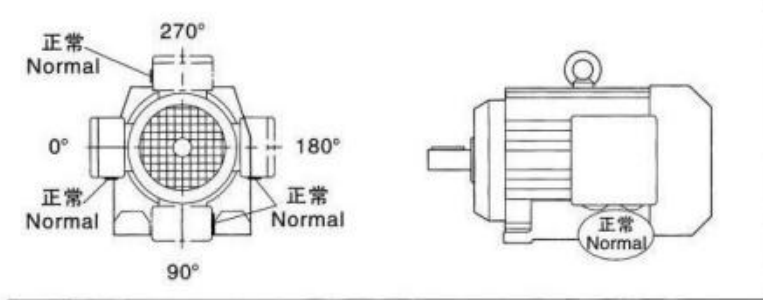
		AC	K	KM			AC	K	KM
R..27R17 R..37R17	D63..	138	368	193	R..147R77	D63..	138	442	210
	D71D	158	369	194		D71D	158	459	227
	D80..	168	419	244		D80..	168	491	259
R..47R37 R..57R37 R..67R37	D63..	138	386	221		D90..	195	533	301
	D71D	158	404	239		D100M	218	550	318
	D80..	168	436	271		D100L	218	550	318
R..77R37	D63..	138	378	221		D112M	240	605	373
	D71D	158	396	239		D132S	275	640	408
	D80..	168	428	271		D132M	275	640	408
	D90..	195	471	314		D132ML	275	640	408
R..87R57	D63..	138	432	216	D160M	330	741	509	
	D71D	158	449	233	D90..	195	577	297	
	D80..	168	481	265	D100M	218	594	314	
	D90..	195	525	309	D100L	218	594	314	
R..97R57	D63..	138	427	216	D112M	240	648	368	
	D71D	158	444	233	D132S	275	683	403	
	D80..	168	476	265	D132M	275	683	403	
	D90..	195	520	309	D132ML	275	683	403	
	D100M	218	557	326	D160M	330	784	504	
	D100L	218	557	326	D160L	330	828	548	
R..107R77	D63..	138	457	210	D180..	380	855	575	
	D71D	158	474	227	R..167R97	D80..	168	579	254
	D80..	168	506	259		D90..	195	616	291
	D90..	195	548	301		D100M	218	633	308
	D100M	218	565	318		D100L	218	633	308
	D100L	218	565	318		D112M	240	688	363
	D112M	240	620	373		D132S	275	723	398
	D132S	275	655	408		D132M	275	723	398
	D132M	275	655	408		D132ML	275	723	398
	D132ML	275	655	408		D160M	330	824	499
	D160M	330	756	509		D160L	330	868	543
R..137R77	D63..	138	450	210	D180..	380	895	570	
	D71D	158	467	227	D100M	218	684	302	
	D80..	168	499	259	D100L	218	684	302	
	D90..	195	541	301	D112M	240	739	357	
	D100M	218	558	318	D132S	275	774	392	
	D100L	218	558	318	D132M	275	774	392	
	D112M	240	613	373	D132ML	275	774	392	
	D132S	275	648	408	D160M	330	875	493	
	D132M	275	648	408	D160L	330	919	537	
	D132ML	275	648	408	D180..	380	946	564	
	D160M	330	749	509	D200..	420	1076	694	
R..147R87	D63..	138	427	216	D225..	470	1117	735	
	D71D	158	444	233					
	D80..	168	476	265					
	D90..	195	520	309					
	D100M	218	557	326					
	D100L	218	557	326					
	D112M	240	648	368					
	D132S	275	683	403					
	D132M	275	683	403					
	D132ML	275	683	403					
	D160M	330	784	504					
D160L	330	828	548						
D180..	380	855	575						
R..167R97	D80..	168	579	254					
	D90..	195	616	291					
	D100M	218	633	308					
	D100L	218	633	308					
	D112M	240	688	363					
	D132S	275	723	398					
	D132M	275	723	398					
	D132ML	275	723	398					
	D160M	330	824	499					
	D160L	330	868	543					
	D180..	380	895	570					
R..167R107	D100M	218	684	302					
	D100L	218	684	302					
	D112M	240	739	357					
	D132S	275	774	392					
	D132M	275	774	392					
	D132ML	275	774	392					
	D160M	330	875	493					
	D160L	330	919	537					
	D180..	380	946	564					
	D200..	420	1076	694					
	D225..	470	1117	735					

注：上表中电机尺寸为参考尺寸，因空间限制对电机尺寸有严格要求时请向我公司咨询。

Notes: The dimension of motor in the above table is only for reference. If you have special require, pls consult us.

R系列斜齿轮减速机/R helical geared motors

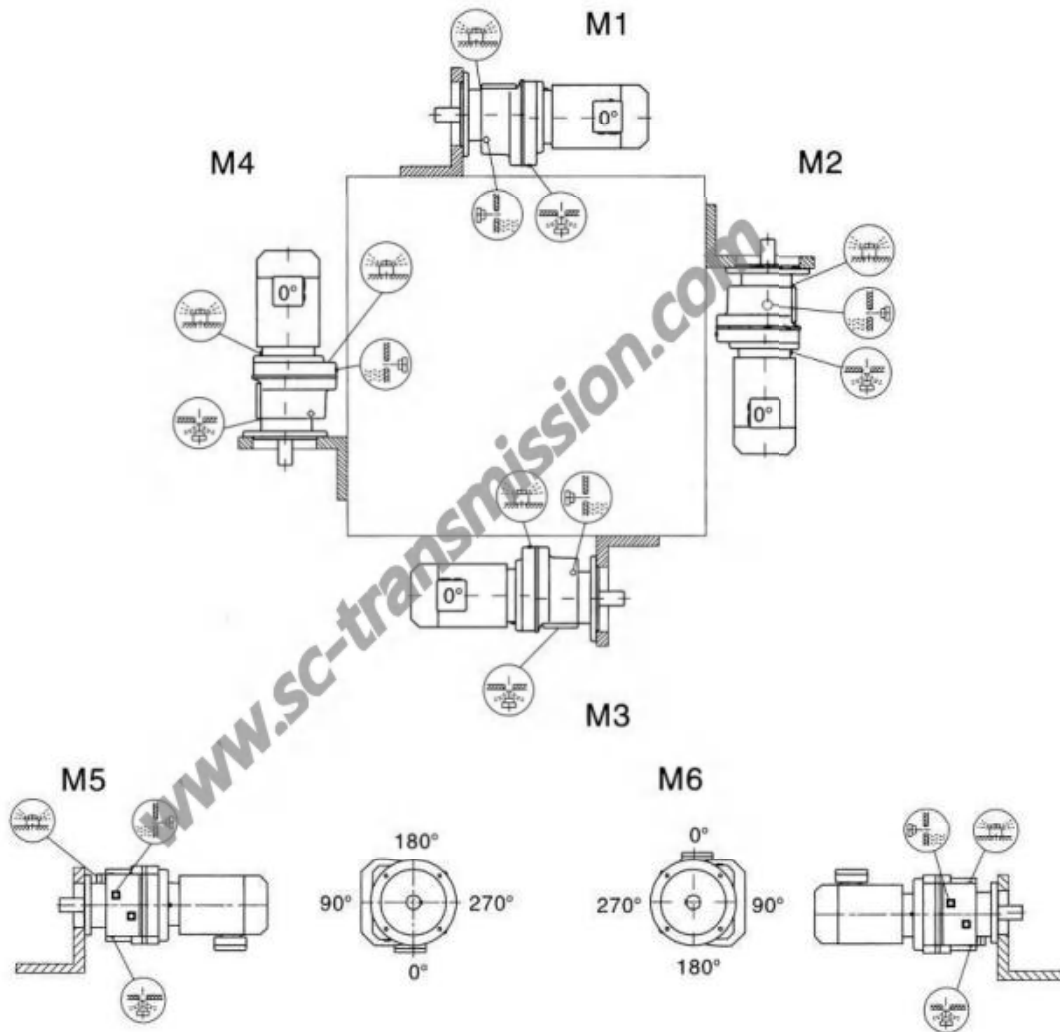
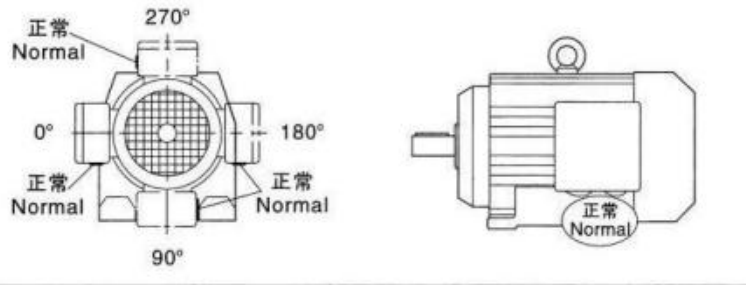
R07-R167安装形式图 R07-R167 Mounting position example



- | | | |
|---------------|--------------|------------|
| R07, R17, R27 | ⊗ | M6 |
| R07, R17, R27 | ⊗ | M5 |
| R07, R17, R27 | ⊗ | M1, M2, M3 |
| R47, R57 | ⊗ | M5 |

R系列斜齿轮减速机/R helical geared motors

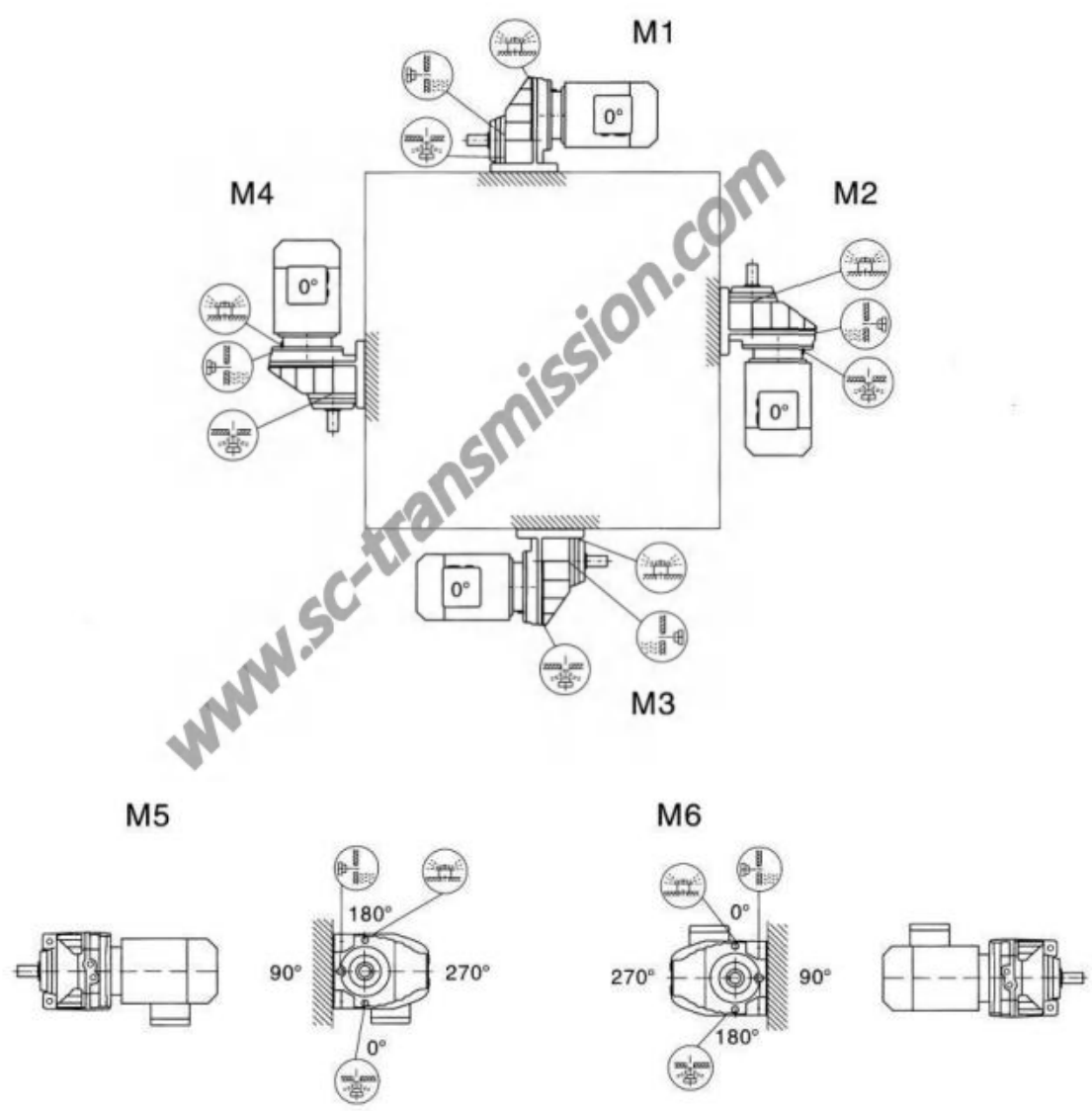
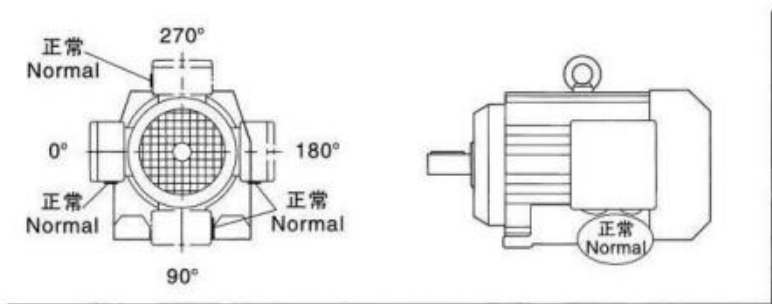
RF07-RF167安装形式图 RF07-RF167 Mounting position example



- RF07, RF17, RF27 M6
- RF07, RF17, RF27 M5
- RF07, RF17, RF27 M1, M2, M3
- RF47, RF57 M5

R系列斜齿轮减速机/R helical geared motors

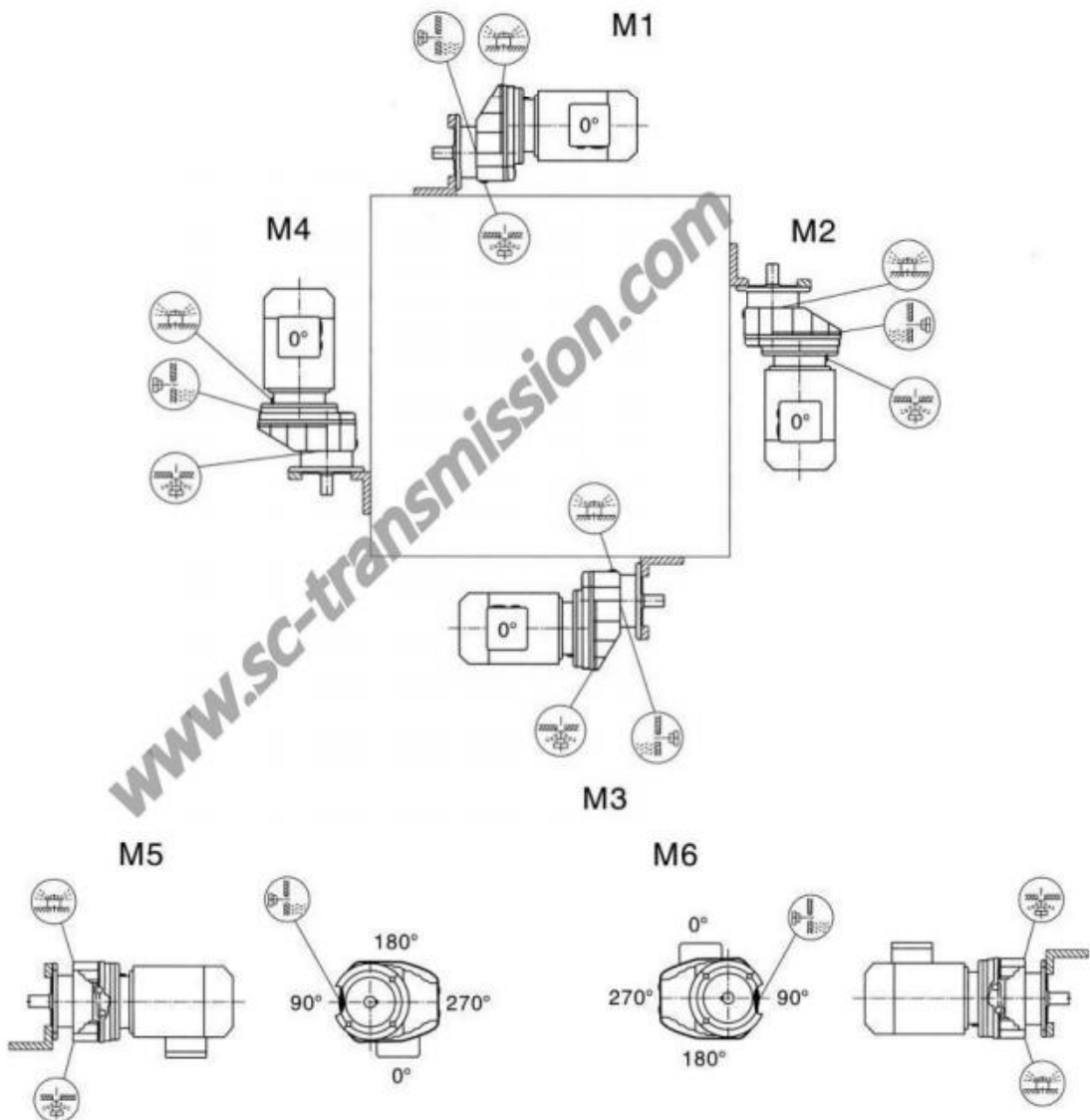
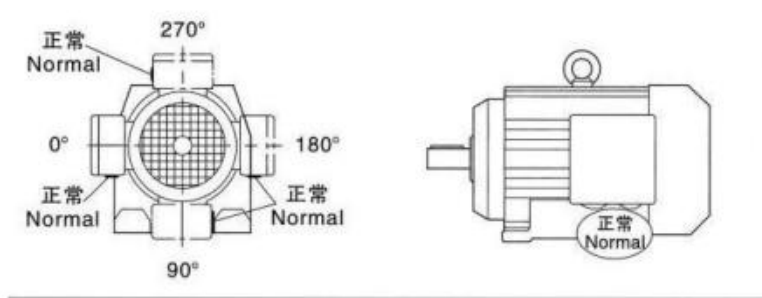
RX57-RX107安装形式图 RX57-RX107 Mounting position example



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R系列斜齿轮减速机/R helical geared motors

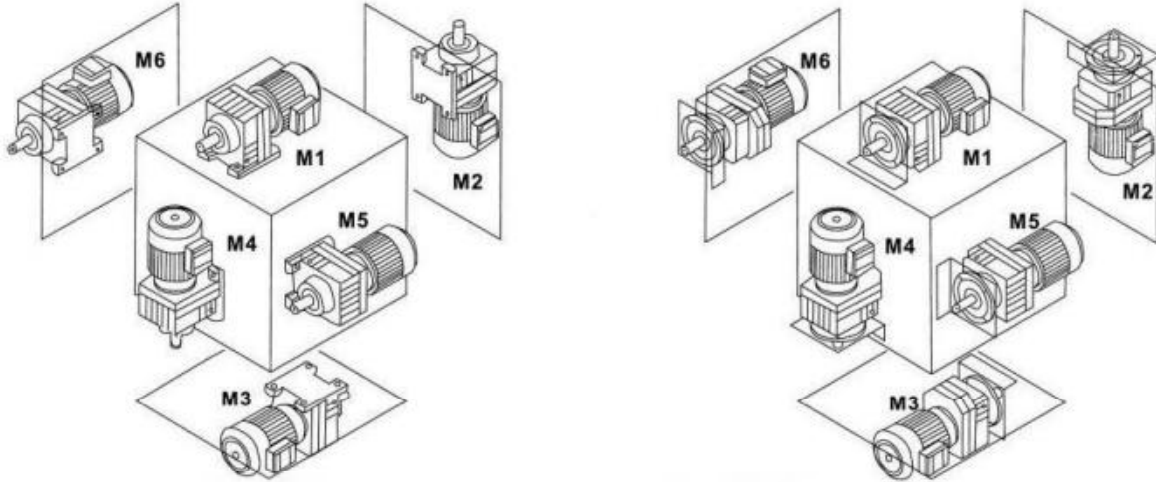
RXF57-RXF107安装形式图 RXF57-RXF107 Mounting position example



R系列斜齿轮减速机/R helical geared motors

安装形式:

Mounting position:



输入功率及许用转矩

Input power rating and permissible torque

规格 Size	17	27	37	47	57	67	77	87	97	107	137	147	167
结构形式 Structure	R						RF						
输入功率 Input power rating (kw)	0.18~0.75	0.18~3	0.18~3	0.18~5.5	0.18~7.5	0.18~7.5	0.18~11	0.55~22	0.55~30	2.2~45	5.5~55	11~90	11~160
传动比 Ratio	3.83~74.84	3.37~135.09	3.33~134.82	3.83~176.88	4.39~186.88	4.29~199.81	5.21~195.24	5.36~246.54	4.49~289.74	5.06~249.16	5.15~222.60	5.00~163.31	10.24~229.71
许用转矩 Permissible torque (N.M)	85	130	200	300	450	600	820	1550	3000	4300	8000	13000	18000

规格 Size	37	57	67	77	87	97	107	127	157
结构形式 Structure	RX				RXF				
输入功率(kw) Input power rating	0.18~1.1	0.18~5.5	0.18~7.5	1.1~11	3~22	5.5~30	7.5~45	7.5~90	11~132
传动比 Ratio	1.62~4.43	1.3~5.5	1.4~6.07	1.42~8.00	1.39~8.65	1.42~8.23	1.44~6.63	1.51~6.2	1.57~6.2
许用转矩(N.m) Permissible torque	20	70	135	215	400	600	830	1110	1680

减速机重量

Gear unit weight

规格 Size	R17	R27	R37	R47	R57	R67	R77	R87	R97	R107	R137	R147	R167
重量(kg) Weight	4	5.5	8.5	10	18	25	36	63	101	153	220	400	700
机型号 Gear unit type	RX37	RX57	RX67	RX77	RX87	RX97	RX107	RX127	RX157				
重量(kg) Weight	5	8	14	23	39	70	100	150	250				

所注重量为平均值, 仅供参考

The weights are mean values, only for reference.

R系列斜齿轮减速机/R helical geared motors

润滑油量表
Lubrication table



规格 Size	润滑油量 (升)			Fill quantity in liters		
	M1 ¹⁾	M2 ¹⁾	M3	M4	M5	M6
R17	0.25	0.6	0.35	0.6	0.35	0.35
R27	0.25/0.4	0.7	0.4	0.7	0.4	0.4
R37	0.3/1	0.9	1	1.1	0.8	1
R47	0.7/1.5	1.6	1.5	1.7	1.5	1.5
R57	0.8/1.7	1.9	1.7	2.1	1.7	1.7
R67	1.1/2.3	2.6/3.5	2.8	3.2	1.8	2
R77	1.2/3	3.8/4.3	3.6	4.3	2.5	3.4
R87	2.3/6	6.7/8.4	7.2	7.7	6.3	6.5
R97	4.6/9.8	11.7/14	11.7	13.4	11.3	11.7
R107	6/13.7	16.3	16.9	19.2	13.2	15.9
R137	10/25	28	29.5	31.5	25	25
R147	15.4/40	46.5	48	52	39.5	41
R167	27/70	82	78	88	66	69

规格 Size	润滑油量 (升)			Fill quantity in liters		
	M1 ¹⁾	M2 ¹⁾	M3	M4	M5	M6
RF17	0.25	0.6	0.35	0.6	0.35	0.35
RF27	0.25/0.4	0.7	0.4	0.7	0.4	0.4
RF37	0.4/1	0.9	1	1.1	0.8	1
RF47	0.7/1.5	1.6	1.5	1.7	1.5	1.5
RF57	0.8/1.7	1.8	1.7	2	1.7	1.7
RF67	1.2/2.5	2.7/3.6	2.7	3.1	1.9	2.1
RF77	1.2/2.6	3.8/4.1	3.6	4.1	2.7	3
RF87	2.4/6	6.8/7.9	7.1	7.7	6.3	6.4
RF97	5.1/10.2	11.9/14	11.2	14	11.2	11.8
RF107	6.3/14.9	15.9	17	19.2	13.1	15.9
RF137	9.5/25	27	29	32.5	25	25
RF147	16.4/42	47	48	52	42	42
RF167	26/70	82	78	88	65	71

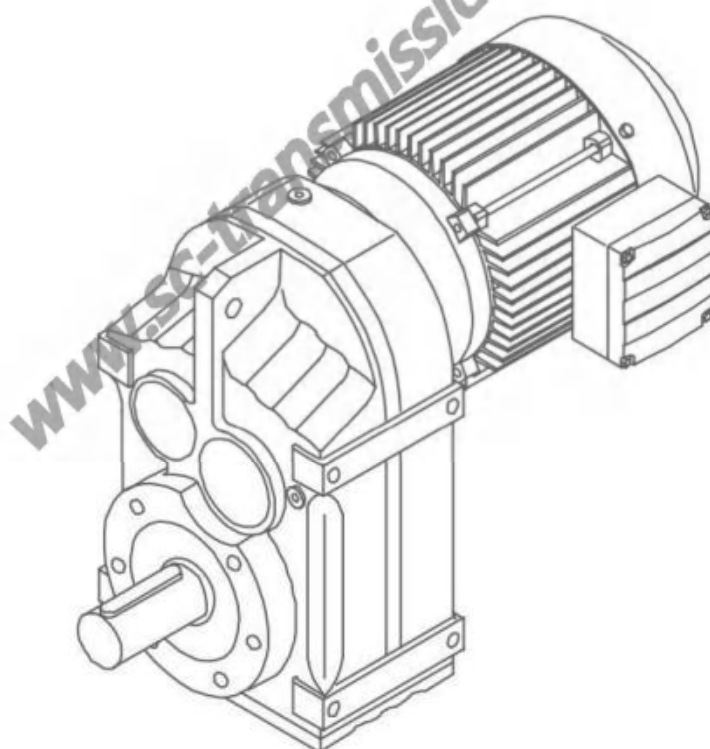
规格 Size	润滑油量 (升)			Fill quantity in liters		
	M1	M2	M3	M4	M5	M6
RX37/RXF37	0.45/0.4	0.6	1.1/0.9	1.1/0.9	0.7/0.6	0.7/0.6
RX57/RXF57	0.6/0.5	0.8	1.3/1.1	1.3/1.1	0.9/0.7	0.9/0.7
RX67/RXF67	0.8/0.7	0.8	1.7/1.5	1.9/1.7	1.1/1	1.1/1
RX77/RXF77	1.1/0.9	1.5	2.6/2.4	2.7/2.5	1.6	1.6
RX87/RXF87	1.7/1.6	2.5	4.8/4.9	4.8/4.7	2.9	2.9
RX97/RXF97	2.1	3.4/3.6	7.4/7.1	7	4.8	4.8
RX107/RXF107	3.9/3.1	5.6/5.9	11.6/11.2	11.9/10.5	7.7/7.2	7.7/7.2
RX127/RXF127	5.6/5.9	11.6/11.2	21.9/20.5	22.7/22.2	9.7/9.2	9.7/9.2
RX157/RXF157	11.6/11.2	21.9/20.5	31.3/30.5	32.7/32.2	13.2/12.7	13.2/12.7

注：¹⁾表示减速机为组合型时低速级所加油量为大值。

Notes: ¹⁾The large gear unit of multi-stage gear units must be filled with the larger oil volume.

F系列平行轴-斜齿轮减速机

F parallel shaft-helical gear motor



F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors

型号说明 Model Notes

减速电机符号说明



F	A	67	G	D	80	N	4	BMG	HF	TF	109.04	M1	180°
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1 产品代码 R--斜齿轮减速机 F--平行轴-斜齿轮减速机 K--斜齿轮-伞齿轮减速机 S--斜齿轮-蜗轮蜗杆减速机	2 装配型式 无代码--底脚安装 F--法兰安装 A--空心轴安装 AF--法兰空心轴安装	3 减速机规格号 67--减速机规格号为67	4 扭矩臂 无代码--无扭矩臂 G--扭矩臂	5 电动机 D--三相异步电动机(IP54) YB--隔爆型三相异步电动机 YGP--起重用变频调速三相异步电动机 YZP--冶金、起重用变频调速三相异步电动机 YVP--变频调速三相异步电动机 YD--变频多速三相异步电动机	6 电动机规格代号 80--电机中心高为80mm	7 电动机定子铁心长度代号 D、K、N、S、M、ML、L	8 电动机极数 4--电动机极数为4	9 制动器 无代码--无制动器 BMG--制动器	10 手动释放装置 无代码--无手动释放装置 HF--手动释放锁在制动释放位置 HR--手动释放自动返回制动位置	11 电机热保护 无代码--无电机热保护 TF--热敏电阻保护装置 PTC热敏电阻 TH--恒温器保护装置 双金属片开关	12 减速机传动比 109.04--减速机传动比为109.04	13 安装位置 M1--安装型式图中M1位置	14 接线盒位置 无代码--安装型式图中0°位置 180°--安装型式图中180°位置

Code Introduction

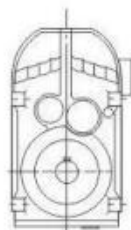
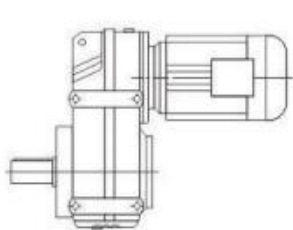
1 Product Code R--Helical Geared Motor F--Parallel Shaft-Helical Geared Motor K--Helical-Bevel Geared Motor S--Helical-Worm Geared Motor	2 Unit Model No Code--Feet-mounted F--Flange-mounted A--Hollow Shaft-mounted AF--Flange-mounted with Hollow Shaft	3 Gear Unit Size 67--Gear Unit Size 67	4 Torque Arm No Code--No Torque Arm G--Torque Arm	5 Electric Motor D--Three Phase Asynchronous Motor(IP 54) YB--Flame-proof Three Phase Asynchronous Motor YGP--Table Roller Three Phase Asynchronous Motor YZP--Metallurgy Hoist Frequency Variable Motor YVP--Frequency Variable Three Phase Motor YD--Multi Speed Three Phase Motor	6 Frame Size 80--Motor Center Height 80mm	7 Stator Length D、K、N、S、M、ML、L	8 Number of Poles 4-- 4Poles	9 Brake No Code--No Brakes BMG--Brakes	10 Brake Release No Code--No Brake Release HF-- Manual release(lock in the brake release position) Brake Release HR--Manual release(automatic braking position)	11 Thermal Protection No Code--No Thermistor TF--Thermistor Sensor TF--Thermistor protection (PTC thermistor) TH--Thermostat protection (Bimetal switch)	12 Ratio 109.04--Ratio 109.04	13 Mounting Position M1--Mounting Position M1	14 Terminal Box Position No Code--Terminal Box Position is 0° 180° --Terminal Box Position is 180°
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F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors

设计方案 Versions of geared motors

平行轴装式斜齿轮减速电机有以下设计方案:

The following types of Parallel Shaft-Helical Geared Motors can be supplied:

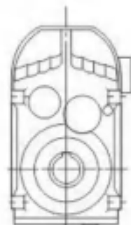
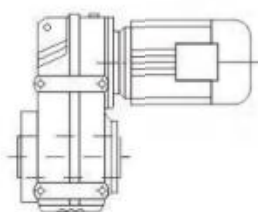


F..D..

底脚安装平行轴斜齿轮减速电机

Solid shaft

Rail mount with tapped holes



FA..B D..

底脚空心轴安装平行轴斜齿轮减速电机

Hollow shaft with key

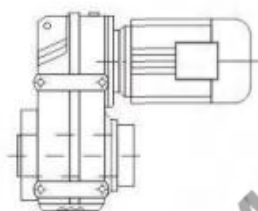
Rail mount with tapped holes

FV..B D..

底脚花键空心轴安装平行轴斜齿轮减速电机

Aligned hollow shaft

Rail mount with tapped holes

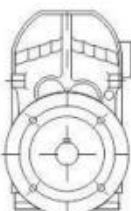
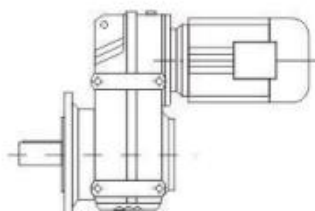


FH..B D..

底脚空心轴锁紧盘安装平行轴斜齿轮减速电机

Shrink disk hollow shaft

Rail mount with tapped holes

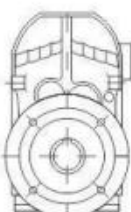
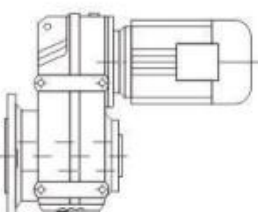


FF..D..

B5 法兰安装平行轴斜齿轮减速电机

Solid shaft

Flange mount (D & B5 style flange with through holes)



FAF..D..

B5 法兰空心轴安装平行轴斜齿轮减速电机

Hollow shaft with key

Flange mount(D & B5 style flange with through holes)

FVF..D..

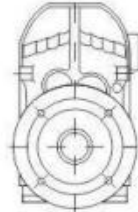
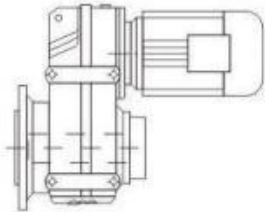
B5 法兰花键空心轴安装平行轴斜齿轮减速电机

Hollow shaft with key

Flange mount(D & B5 style flange with through holes)

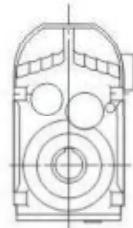
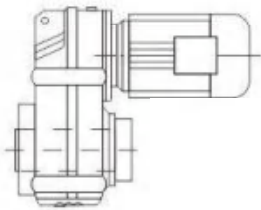


F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors



FHF..D..

B5 法兰空心轴锁紧盘安装平行轴斜齿轮减速机
Shrink disk hollow shaft
Flange mount (D & B5 style flange with through holes)

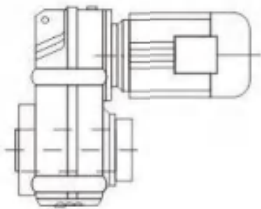


FA..D..

空心轴安装平行轴斜齿轮减速机
Hollow shaft with key
Shaft mount

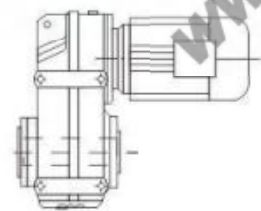
FV..D..

花键空心轴安装平行轴斜齿轮减速机
Splined hollow shaft
Shaft mount



FH..D..

空心轴锁紧盘安装平行轴斜齿轮减速机
Shrink disk hollow shaft
Shaft mount

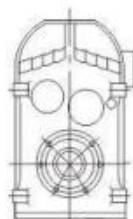
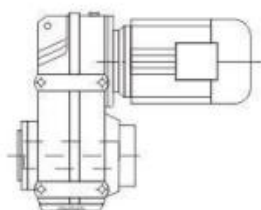


FAZ..D..

B14 法兰空心轴安装平行轴斜齿轮减速机
Hollow shaft with key
Face mount (C & B14 style flange with tapped holes)

FVZ..D..

B14 法兰花键空心轴安装平行轴斜齿轮减速机
Hollow shaft with key
Face mount (C & B14 style flange with tapped holes)



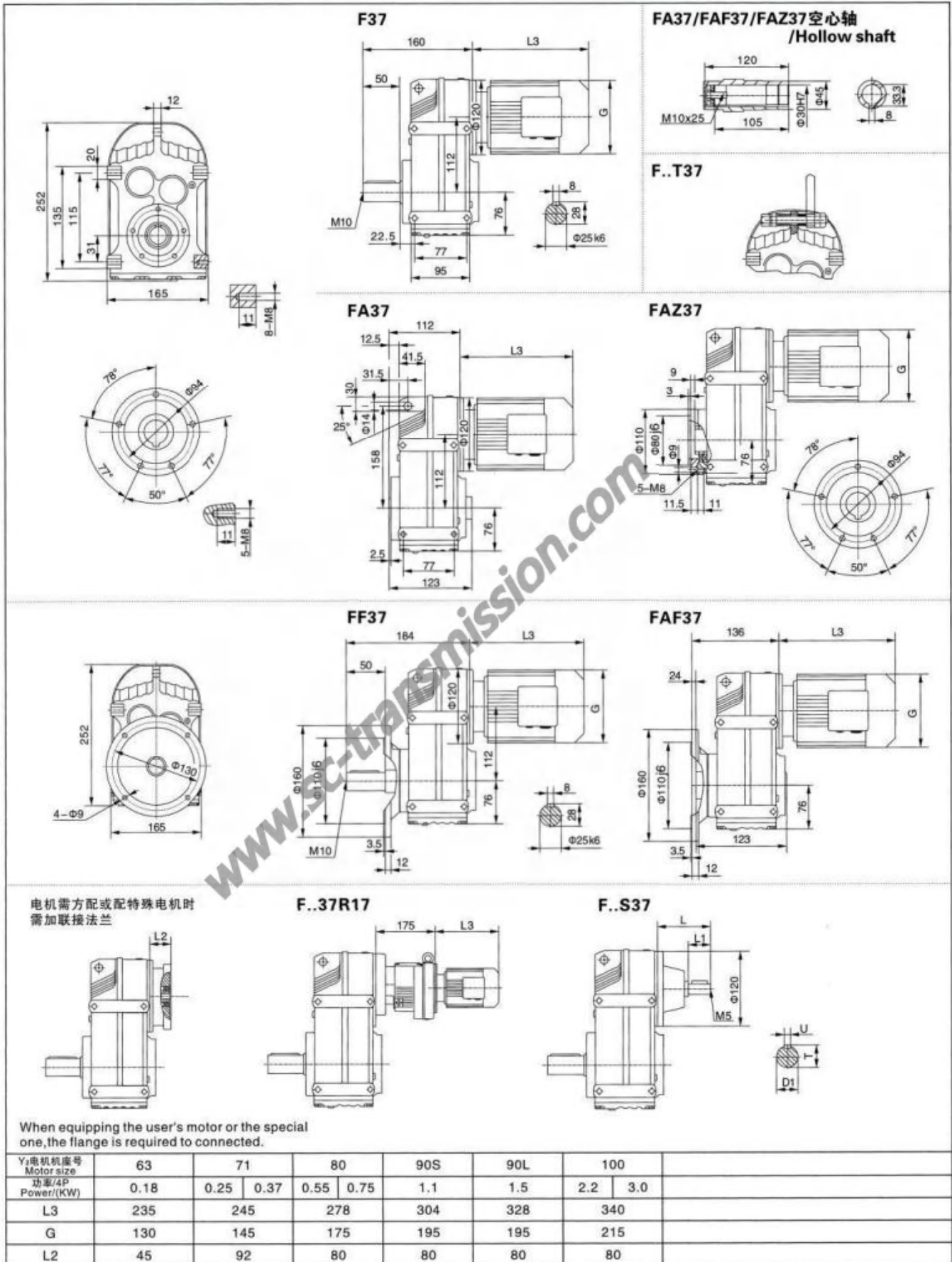
FHZ..D..

B14 法兰空心轴锁紧盘安装平行轴斜齿轮减速机
Shrink disk hollow shaft
Face mount (C & B14 style flange with tapped holes)



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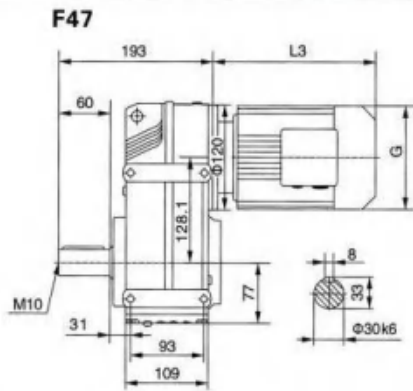
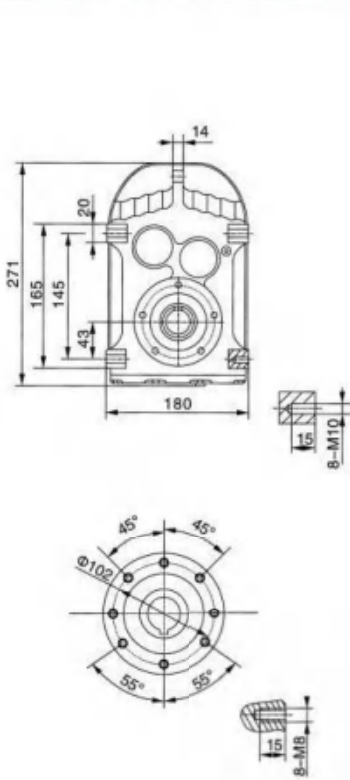
F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors



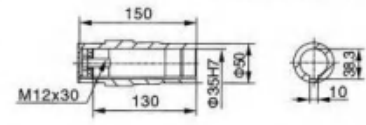
注：1.以上壳体为通用件，安装尺寸均可相互参照。 2.*F..*表示F、FA、FF、FAF、FAZ。

Note: 1.The above housings are common parts. The mounting dimensions may consult each other. 2.*F..*mean F、FA、FF、FAF、FAZ.

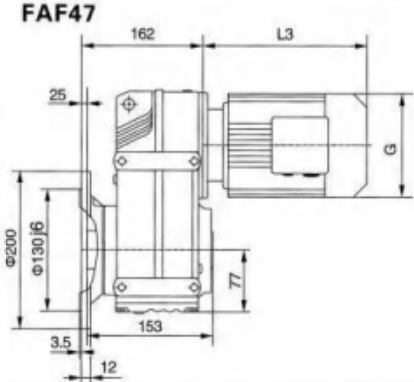
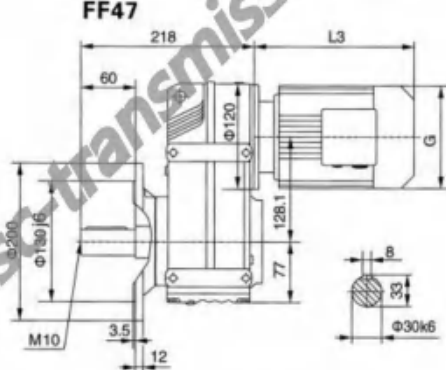
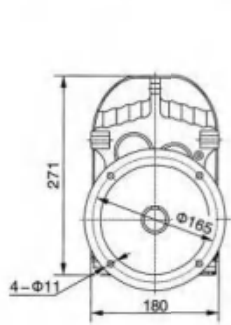
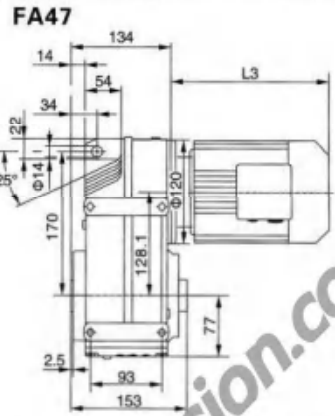
F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors



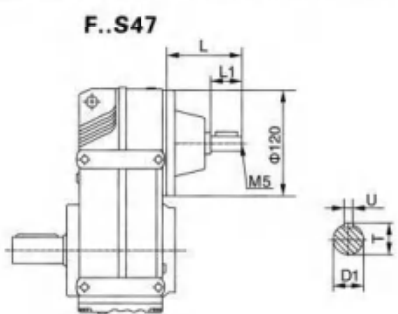
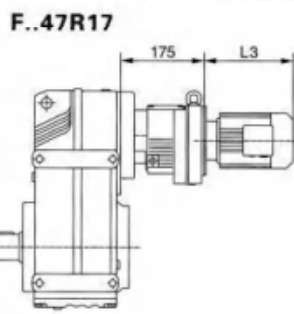
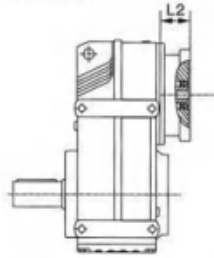
FA47/FAF47/FAZ47空心轴 /Hollow shaft



F..T47



电机需方配或配特殊电机时需加联接法兰

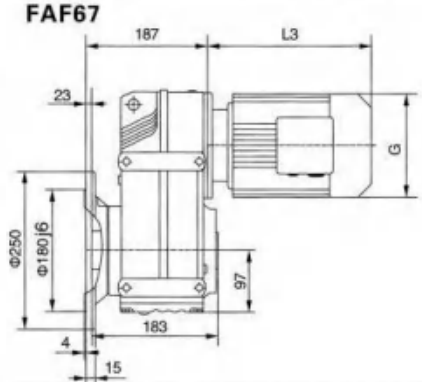
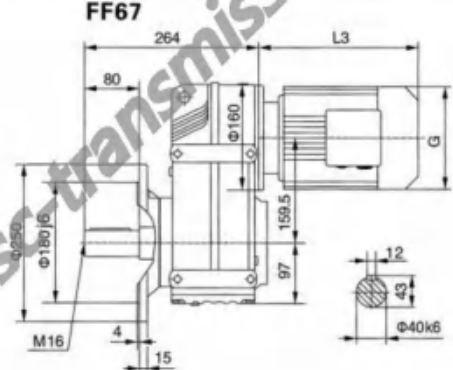
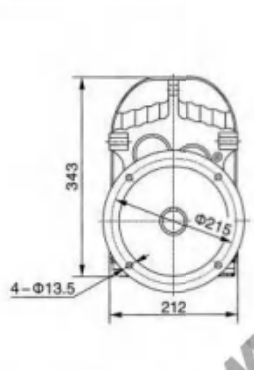
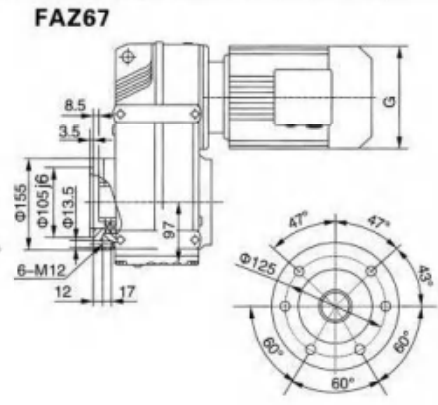
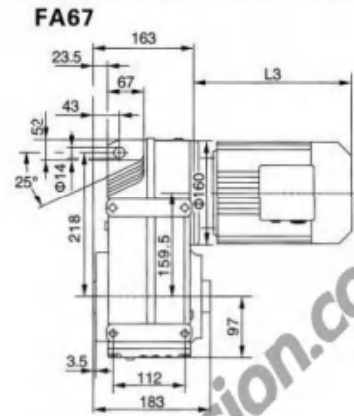
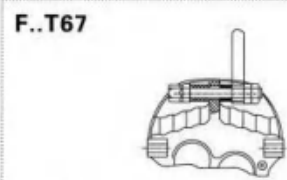
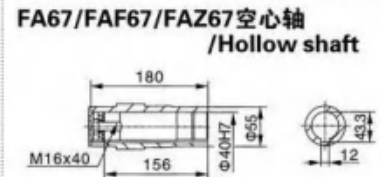
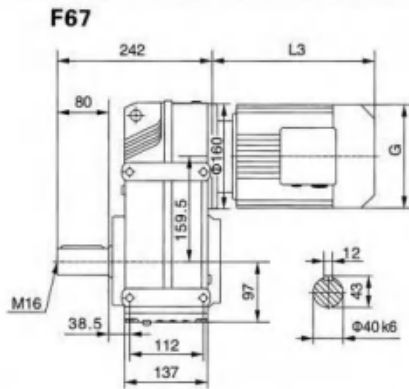
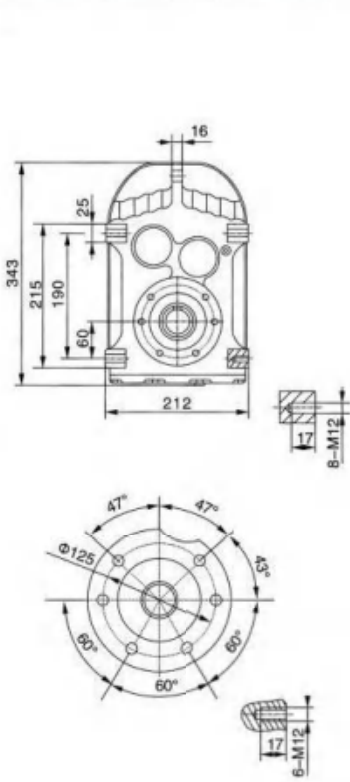


When equipping the user's motor or the special one, the flange is required to connected.

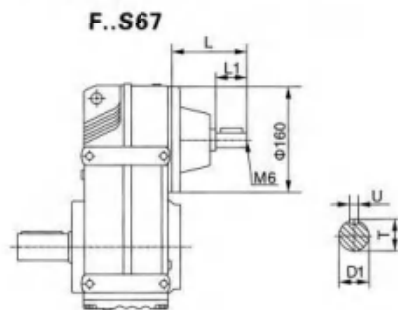
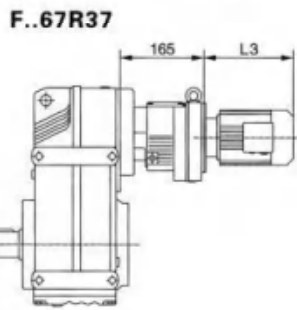
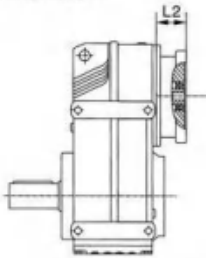
Y ₂ 电机机座号 Motor size	63	71	80	90S	90L	100		
功率/4P Power/(KW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2 3.0
L3	235	245	278	304	328	340		
G	130	145	175	195	195	215		
L2	45	92	80	80	80	80		

注: 1.以上壳体为通用件, 安装尺寸均可相互参照. 2.*F.*表示F、FA、FF、FAF、FAZ.
Note: 1.The above housings are common parts. The mounting dimensions may consult each other. 2.*F.*mean F、FA、FF、FAF、FAZ.

F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors



电机需方配或配特殊电机时需加联接法兰

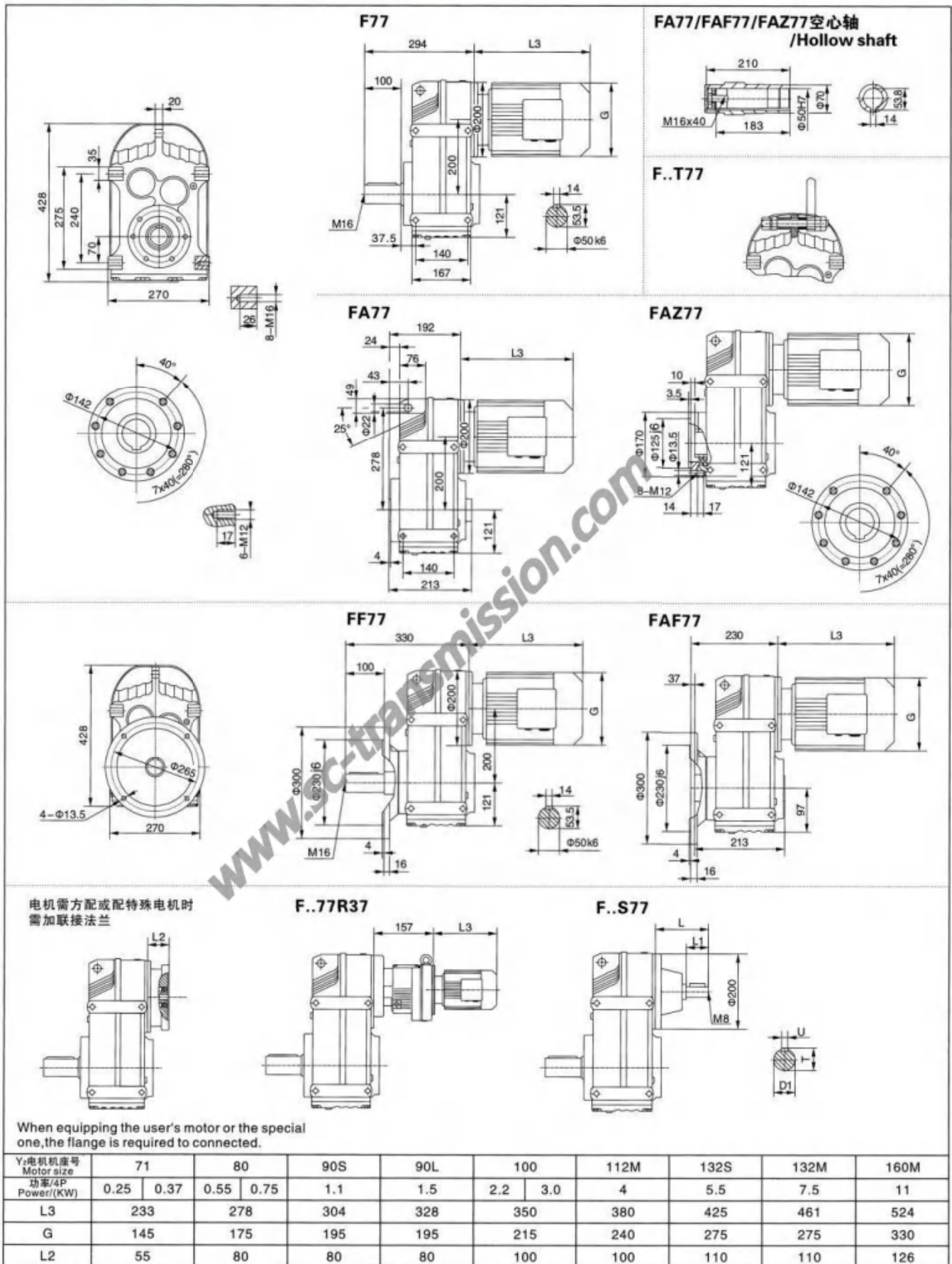


When equipping the user's motor or the special one, the flange is required to connected.

Y ₂ 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 3.0	4	5.5	
L3	223	245	278	304	328	350	380	425	
G	130	145	175	195	195	215	240	275	
L2	45	55	80	80	80	100	100	110	

注：1.以上壳体为通用件，安装尺寸均可相互参照。 2.*F..*表示F、FA、FF、FAF、FAZ。
Note: 1.The above housings are common parts. The mounting dimensions may consult each other. 2.*F..*mean F、FA、FF、FAF、FAZ.

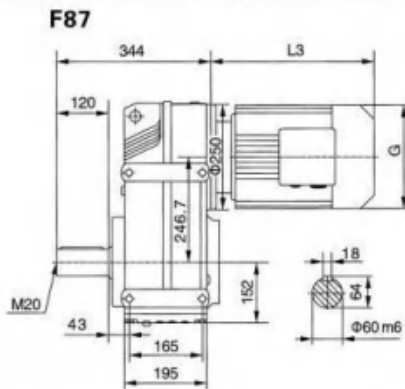
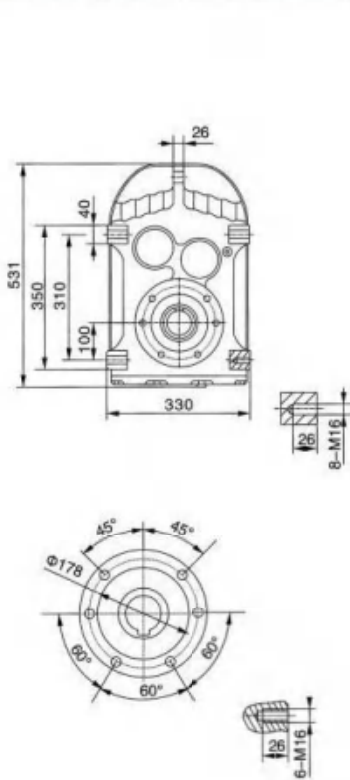
F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors



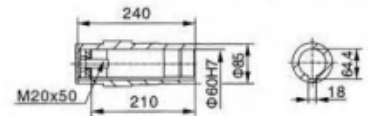
注: 1.以上壳体为通用件, 安装尺寸均可相互参照。 2.*F..*表示F、FA、FF、FAF、FAZ。

Note: 1.The above housings are common parts. The mounting dimensions may consult each other. 2.*F..*mean F、FA、FF、FAF、FAZ.

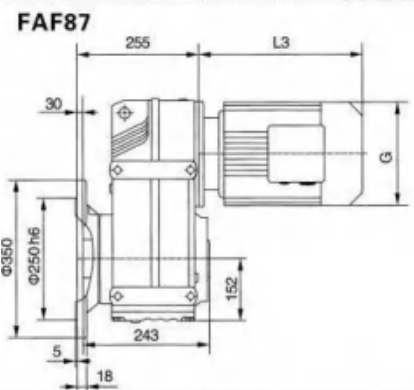
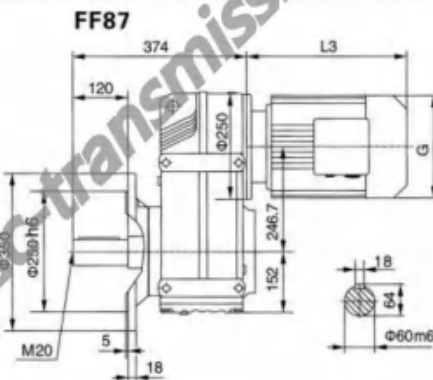
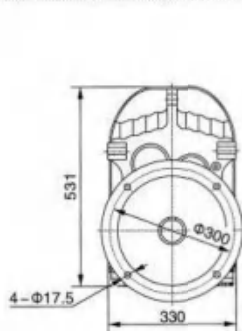
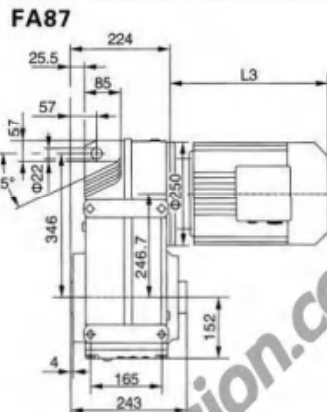
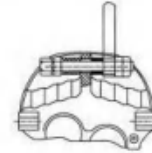
F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors



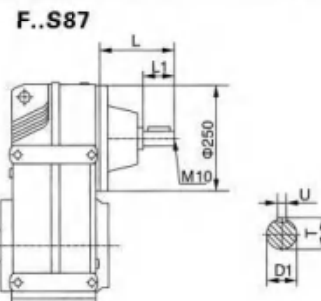
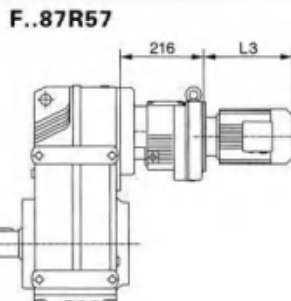
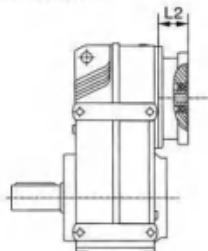
FA87/FAF87/FAZ87空心轴 /Hollow shaft



F..T87



电机需方配或配特殊电机时需加联接法兰



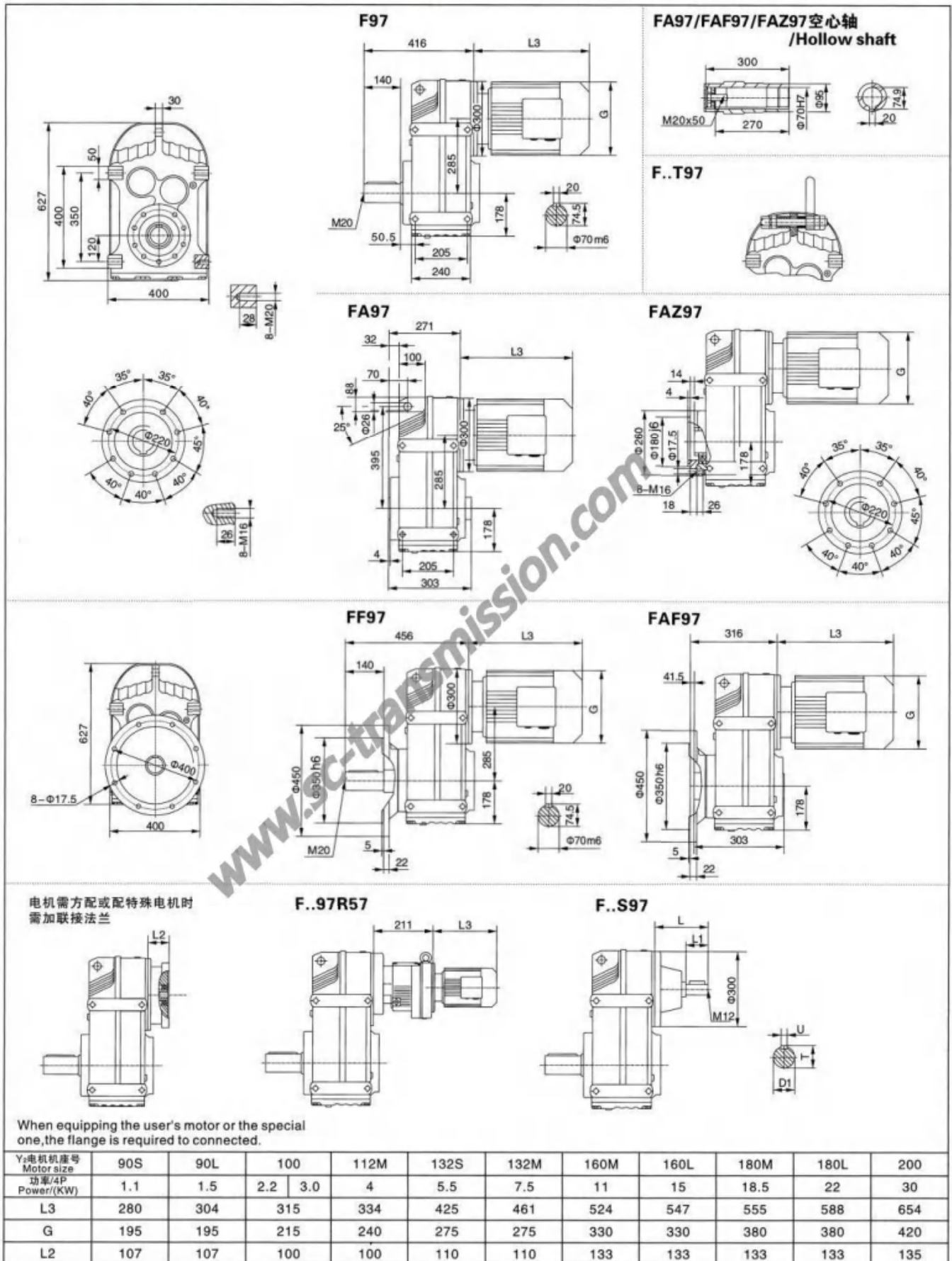
When equipping the user's motor or the special one, the flange is required to be connected.

Y ₂ 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	3.0	4	5.5	7.5	11	15	22
L3	246	280	304	350	380	425	461	524	547	583	616
G	175	195	195	215	240	275	275	330	330	380	380
L2	80	80	80	100	100	110	110	133	133	133	133

注: 1.以上壳体为通用件, 安装尺寸均可相互参照。 2."F.."表示F、FA、FF、FAF、FAZ。

Note: 1.The above housings are common parts. The mounting dimensions may consult each other. 2."F.."mean F、FA、FF、FAF、FAZ.

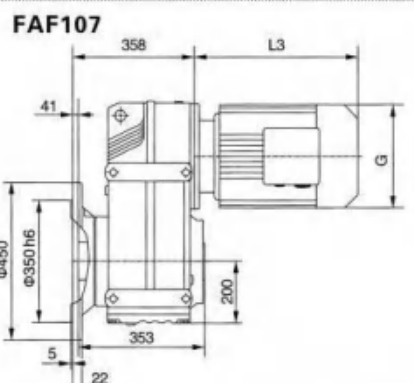
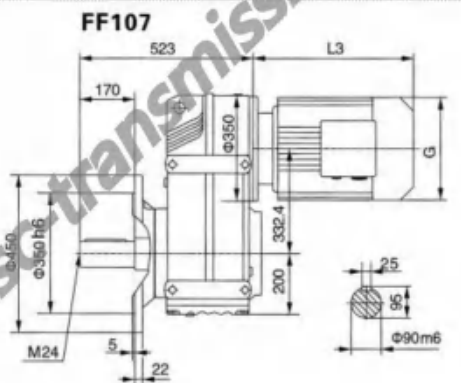
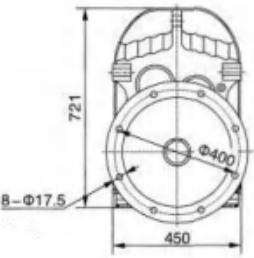
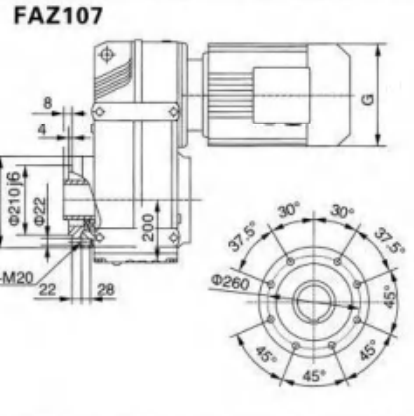
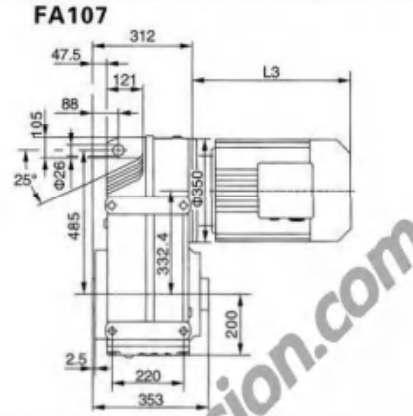
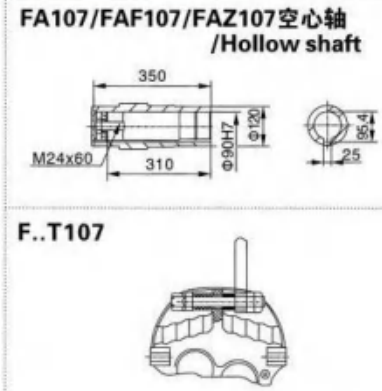
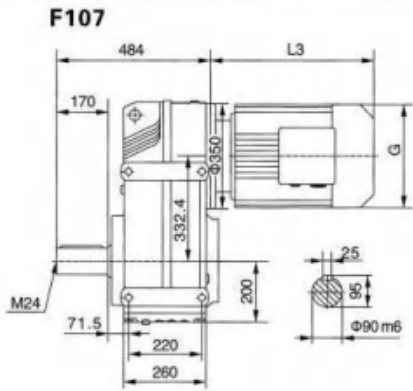
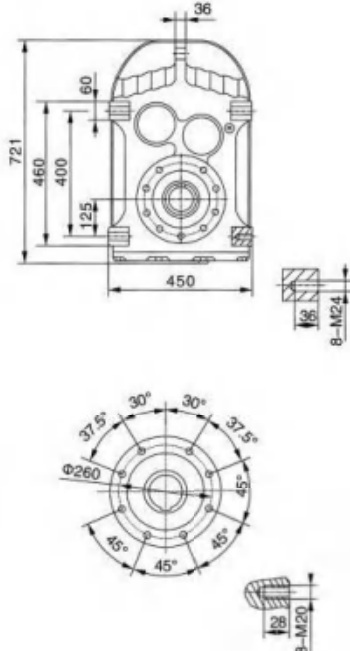
F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors



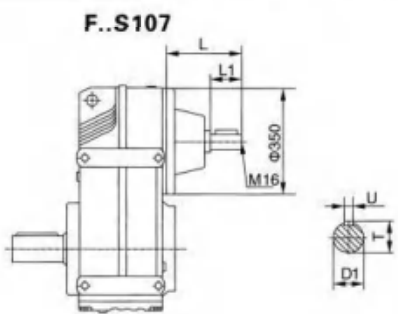
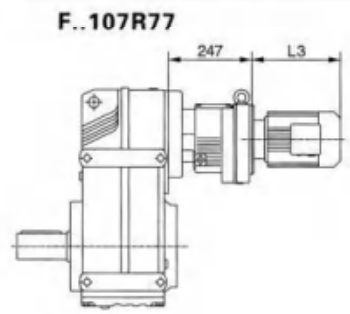
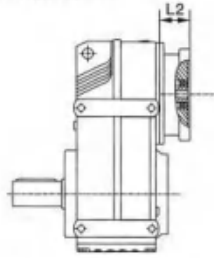
注: 1.以上壳体为通用件, 安装尺寸均可相互参照。 2.*F..*表示F、FA、FF、FAF、FAZ。

Note: 1.The above housings are common parts. The mounting dimensions may consult each other. 2.*F..*mean F、FA、FF、FAF、FAZ.

F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors



电机需方配或配特殊电机时需加联接法兰

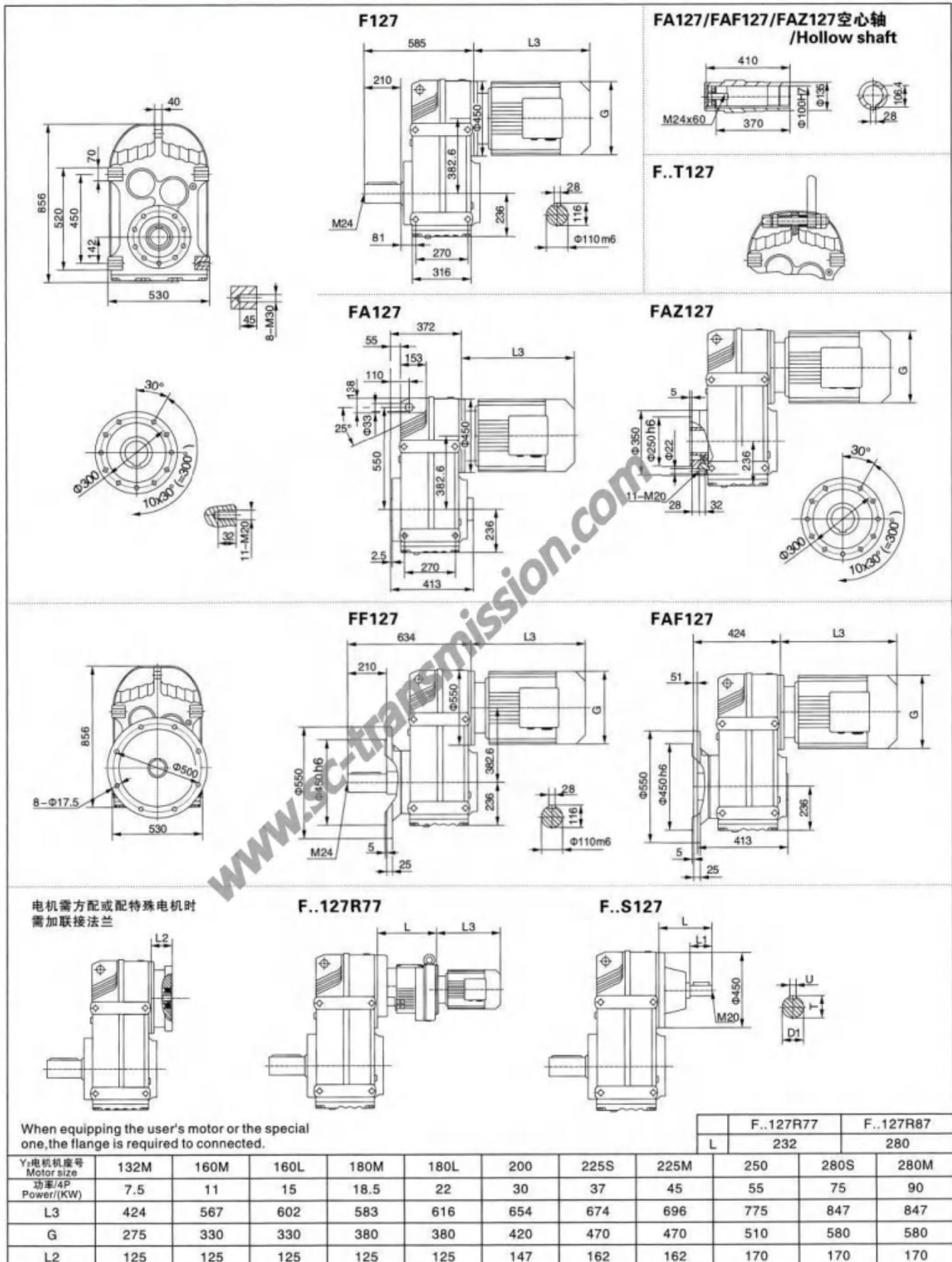


When equipping the user's motor or the special one, the flange is required to be connected.

Y ₂ 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	3.0	4	5.5	7.5	11	15	18.5	22	30	37	45
L3	318	334	386	422	504	519	555	588	654	680	702	
G	215	240	275	275	330	330	380	380	420	470	470	
L2	100	100	110	110	133	133	133	133	135	143	143	

注: 1.以上壳体为通用件, 安装尺寸均可相互参照. 2.'F..'表示F、FA、FF、FAF、FAZ.
Note: 1.The above housings are common parts. The mounting dimensions may consult each other. 2.'F..'mean F、FA、FF、FAF、FAZ.

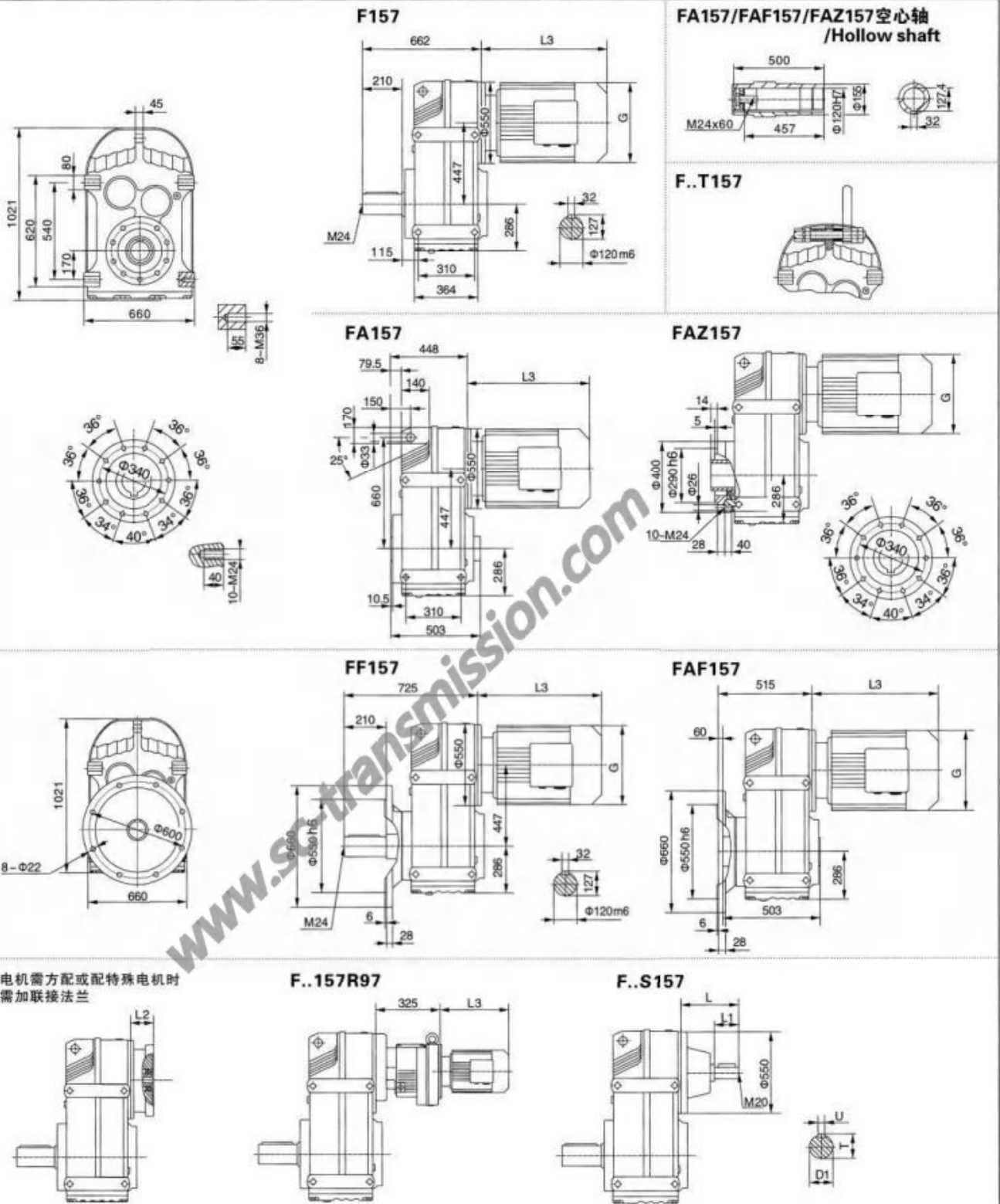
F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors



注：1.以上壳体为通用件，安装尺寸均可相互参照。 2."F.."表示F、FA、FF、FAF、FAZ。

Note: 1.The above housings are common parts. The mounting dimensions may consult each other. 2."F.."mean F、FA、FF、FAF、FAZ.

F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors



电机需方配或配特殊电机时需加联接法兰

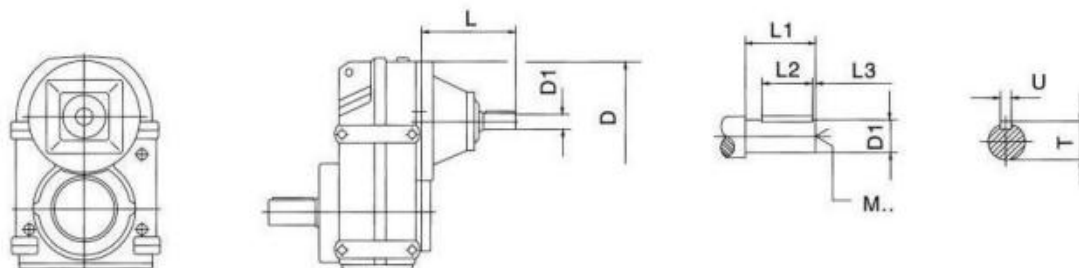
When equipping the user's motor or the special one, the flange is required to be connected.

Y ₂ 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	567	602	635	666	642	669	691	770	828	879	1100	1180	1270
G	330	330	380	380	420	470	470	510	580	580	645	645	645
L2	125	125	125	125	147	145	145	170	170	170	-	-	-

注: 1.以上壳体为通用件, 安装尺寸均可相互参照。 2.*F..*表示F、FA、FF、FAF、FAZ。
 Note: 1.The above housings are common parts. The mounting dimensions may consult each other. 2.*F..*mean F、FA、FF、FAF、FAZ.

F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors

F..AD



		D	L	D1	L1	L3	L2	T	U	M
F..27 F..37 F..47	Ad1	120	102	16	40	4	32	18	5	M5
	AD2		130	19	40	4	32	21.5	6	M6
F..57 F..67	AD2	160	123	19	40	4	32	21.5	6	M6
	AD3		159	24	50	5	40	27	8	M8
F..77	AD2	200	116	19	40	4	32	21.5	6	M6
	AD3		151	24	50	5	40	27	8	M8
	AD4		224	38	80	5	70	41	10	M12
F..87	AD2	250	111	19	40	4	32	21.5	6	M6
	AD3		156	28	60	5	50	31	8	M10
	AD4		219	38	80	5	70	41	10	M12
	AD5		292	42	110	10	70	45	12	M16
F..97	AD3	300	151	28	60	5	50	31	8	M10
	AD4		214	38	80	5	70	41	10	M12
	AD5		287	42	110	10	70	45	12	M16
	AD6		327	48	110	10	80	51.5	14	M16
F..107	AD3	350	145	28	60	5	50	31	8	M10
	AD4		208	38	80	5	70	41	10	M12
	AD5		281	42	110	10	70	45	12	M16
	AD6		321	48	110	10	80	51.5	14	M16
F..127	AD4	450	193	38	80	5	70	41	10	M12
	AD5		266	42	110	10	70	45	12	M16
	AD6		306	48	110	10	80	51.5	14	M16
	AD7		300	55	110	10	90	59	16	M20
	AD8		383	70	140	15	110	74.5	20	M20
F..157	AD5	550	258	42	110	10	70	45	12	M16
	AD6		298	48	110	10	80	51.5	14	M16
	AD7		292	55	110	10	90	59	16	M20
	AD8		374	70	140	15	110	74.5	20	M20

F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors

F..AM..

Fig.1

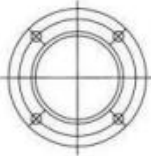


Fig.2

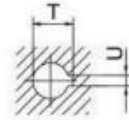
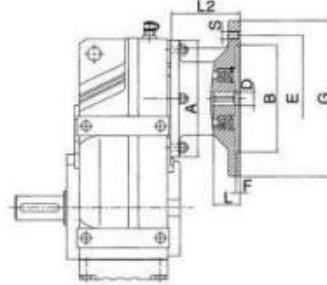
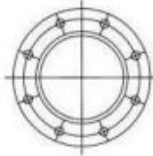


		Fig.	B	E	F	A	G	S	L2	D	L1	T	U
F..37 F..47	AM63	1	95	115	3.5	120	140	M8	45	11	23	12.8	4
	AM71 ¹⁾		110	130			160		92	14	30	16.3	5
	AM80 ¹⁾		130	165	4.5		200	M10	80	19	40	21.8	6
	AM90 ¹⁾									24	50	27.3	8
F..57 F..67	AM63	1	95	115	3.5	160	140	M8	45	11	23	12.8	4
	AM71		110	130			160		55	14	30	16.3	5
	AM80		130	165	4.5		200	M10	80	19	40	21.8	6
	AM90									24	50	27.3	8
	AM100 ¹⁾		180	215	5		250	M12	100	28	60	31.3	8
	AM112 ¹⁾		230	265	5		300	M12	110	38	80	41.3	10
AM132S ¹⁾ AM132M ¹⁾													
AM132ML ¹⁾													
F..77	AM63	1	95	115	3.5	200	140	M8	45	11	23	12.8	4
	AM71		110	130			160		55	14	30	16.3	5
	AM80		130	165	4.5		200	M10	80	19	40	21.8	6
	AM90									24	50	27.3	8
	AM100 ¹⁾		180	215	5		250	M12	100	28	60	31.3	8
	AM112 ¹⁾												
	AM132S ¹⁾ AM132M ¹⁾		230	265	5		300	M12	110	38	80	41.3	10
	AM132ML ¹⁾												
F..87	AM80	1	130	165	4.5	250	200	M10	80	19	40	21.8	6
	AM90									24	50	27.3	8
	AM100		180	215	5		250	M12	100	28	60	31.3	8
	AM112												
	AM132S AM132M		230	265	5		300	M12	110	38	80	41.3	10
	AM132ML												
	AM160 ¹⁾		250	300	6		350	M16	133	42	110	45.3	12
	AM180 ¹⁾									48		51.8	14
F..97	AM100	1	180	215	5	300	250	M12	100	28	60	31.3	8
	AM112												
	AM132S AM132M		230	265	5		300	M12	110	38	80	41.3	10
	AM132ML												
	AM160		250	300	6		350	M16	133	42	110	45.3	12
	AM180									48		51.8	14
	AM200		300	350	7		400	M16	135	55	110	59.3	16
	AM225 ¹⁾		2	350								400	7

F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors

F..AM..

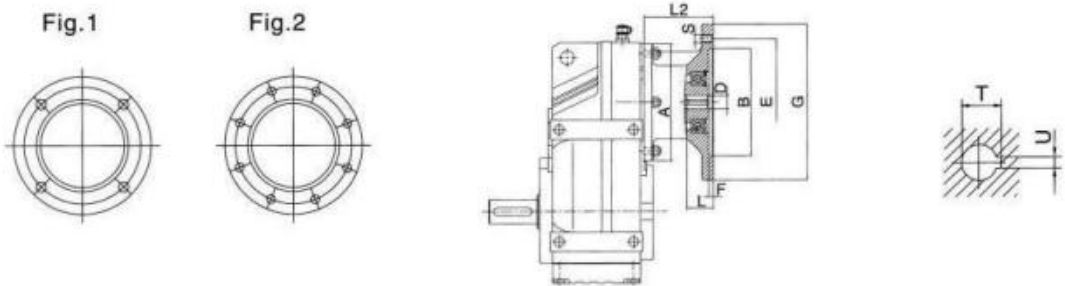
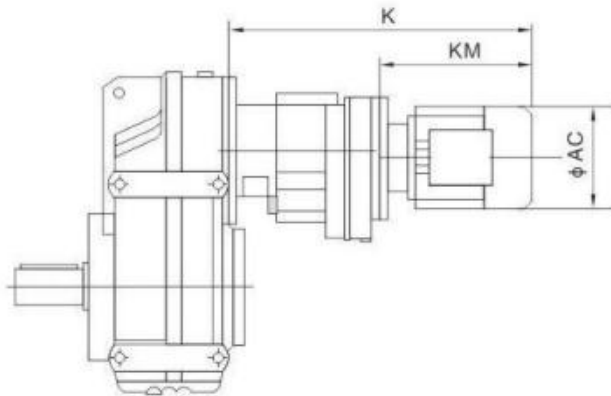


		Fig.	B	E	F	A	G	S	L2	D	L1	T	U	
F..107	AM100	1	180	215	5	350	250	M12	100	28	60	31.3	8	
	AM112													
	AM132S AM132M		230	265	6		350	300	M16	110	38	80	41.3	10
	AM132ML													
	AM160		250	300	7	350	350	M16	133	42	110	45.3	12	
	AM180													
	AM200		300	350	7	350	400	M16	135	55	110	59.3	16	
	AM225													
		2	350	400			450		143	60	140	64.4	18	
F..127	AM132S AM132M	1	230	265	5	450	300	M12	125	38	80	41.3	10	
	AM132ML													
	AM160		250	300	6		450	350	M16	125	42	110	45.3	12
	AM180													
	AM200	300	350	7	450	400	M16	147	55	110	59.3	16		
	AM225													
	AM250	350	400	7	450	450	M16	162	60	140	64.4	18		
	AM280													
		2	450	500			550		170	65	140	69.4	20	
										75		79.9	20	
F..157	AM160	1	250	300	6	550	350	M16	125	42	110	45.3	12	
	AM180													
	AM200		300	350	7		550	400	M16	147	55	110	59.3	16
	AM225													
	AM250	350	400	7	550	450	M16	145	60	140	64.4	18		
	AM280													
		2	450	500			550		170	65	140	69.4	20	
										75		79.9	20	



F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors

F.R.



		AC	K	KM
F..37R17 F..47R17	D63..	138	368	193
	D71D	158	369	194
	D80..	168	419	244
F..57R37	D63..	138	386	221
	D71D	158	404	239
	D80..	168	436	271
F..67R37	D63..	138	386	221
	D71D	158	404	239
	D80..	168	436	271
	D90..	195	479	314
F..77R37	D63..	138	378	221
	D71D	158	396	239
	D80..	168	428	271
	D90..	195	471	314
F..87R57	D63..	138	432	216
	D71D	158	450	234
	D80..	168	481	265
	D90..	195	525	309
	D100M	218	542	326
	D100L	218	542	326
F..97R57	D63..	138	427	216
	D71D	158	445	234
	D80..	168	476	265
	D90..	195	520	309
	D100M	218	537	326
	D100L	218	537	326
	D112M	240	593	382
F..107R77	D63..	138	457	210
	D71D	158	475	228
	D80..	168	506	259
	D90..	195	548	301
	D100M	218	565	318
	D100L	218	565	318
	D112M	240	620	373
	D132S	275	655	408

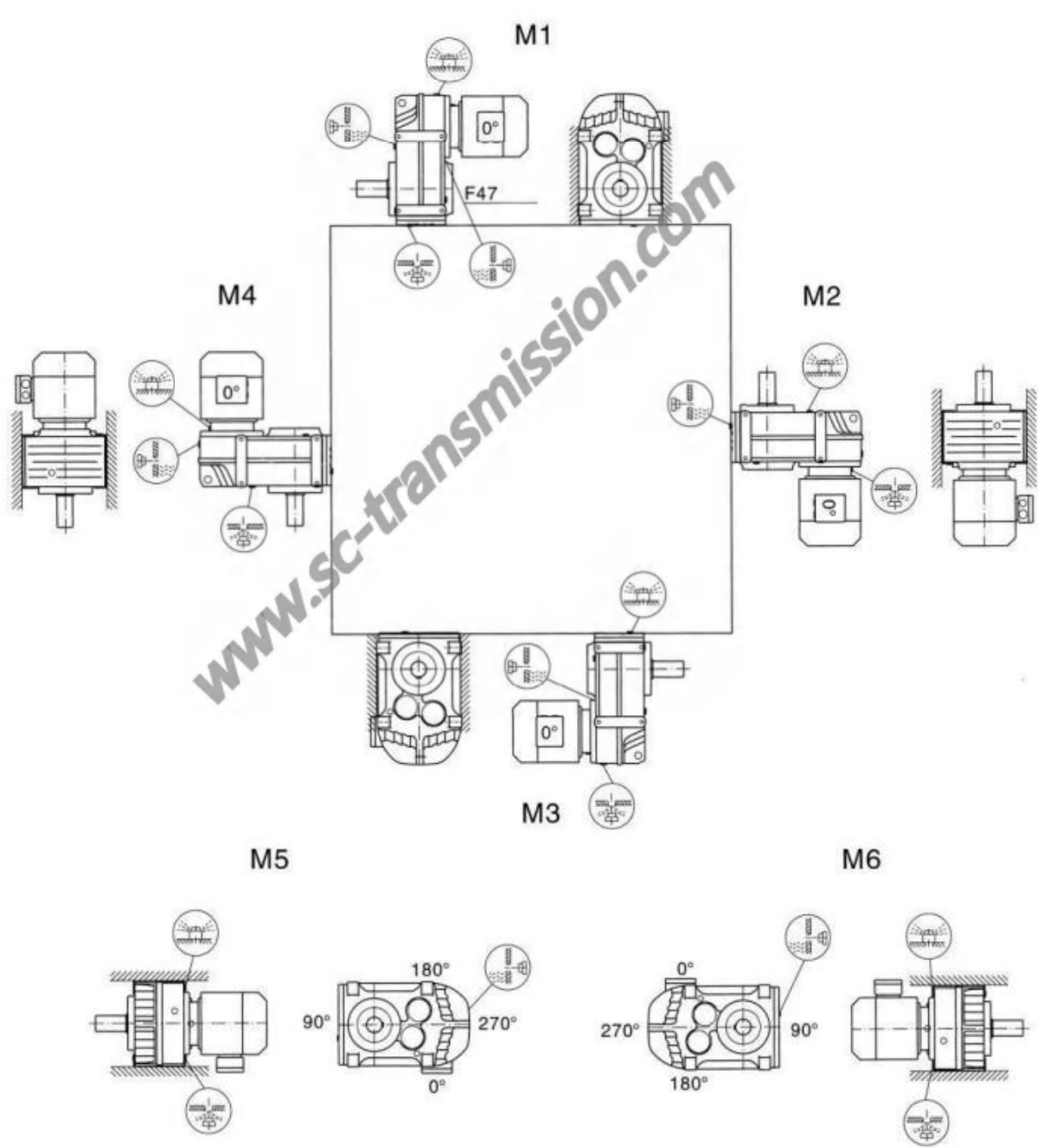
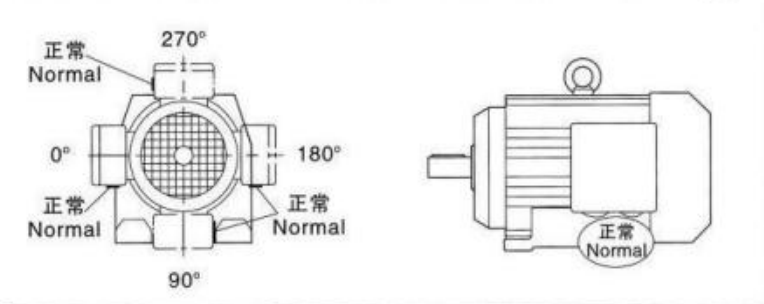
		AC	K	KM
F..107R77	D132M	275	655	408
	D132ML	275	655	408
	D160M	330	756	509
F..127R77	D63..	138	442	210
	D71D	158	460	228
	D80..	168	491	259
	D90..	195	533	301
	D100M	218	550	318
	D100L	218	550	318
	D112M	240	605	373
	D132S	275	640	408
	D132M	275	640	408
	D132ML	275	640	408
F..127R87	D160M	330	741	509
	D90..	195	577	297
	D100M	218	594	314
	D100L	218	594	314
	D112M	240	648	368
	D132S	275	683	403
	D132M	275	683	403
	D132ML	275	683	403
	D160M	330	784	504
	D160L	330	828	548
F..157R97	D180..	380	855	575
	D80..	168	579	254
	D90..	195	616	291
	D100M	218	633	308
	D100L	218	633	308
	D112M	240	688	363
	D132S	275	723	398
	D132M	275	723	398
	D132ML	275	723	398
	D160M	330	824	499
	D160L	330	868	543
	D180..	380	895	570
D200..	420	1025	700	

注：上表中电机尺寸为参考尺寸，因空间限制对电机尺寸有严格要求时请向我公司咨询。

Notes: The dimension of motor in the above table is only for reference. If you have special require, pls consult us.

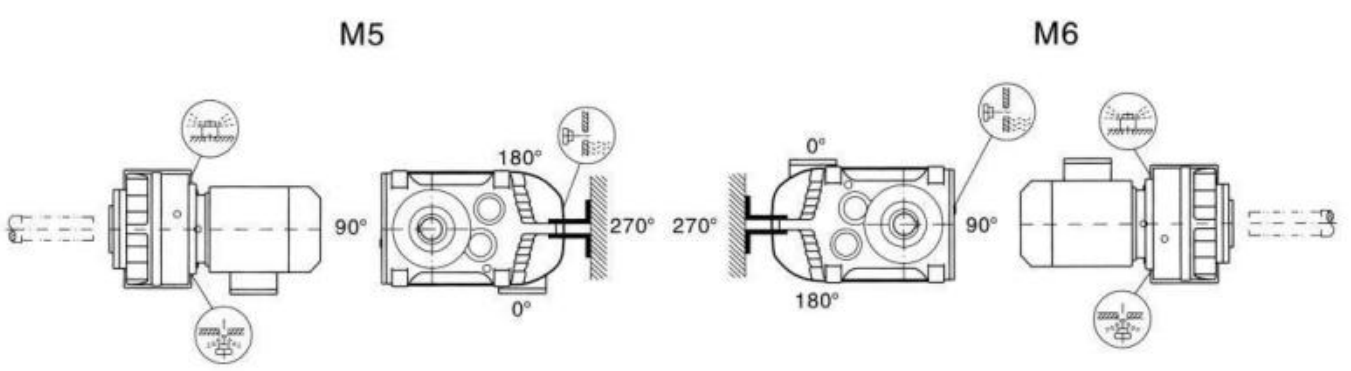
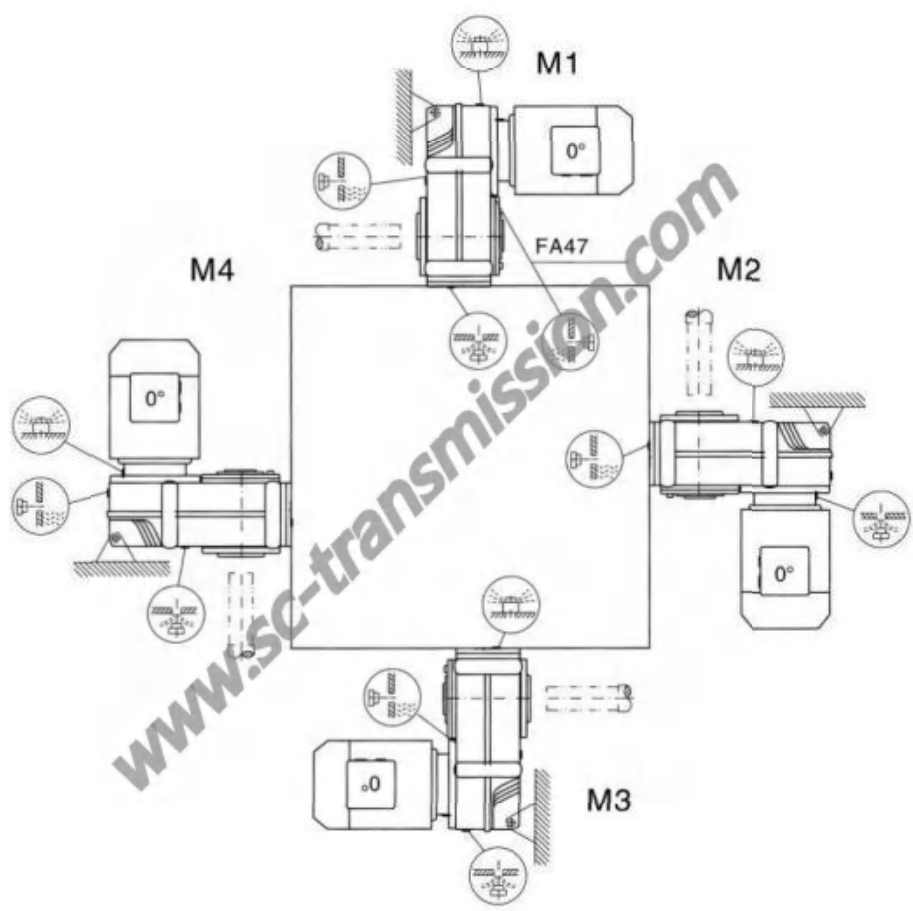
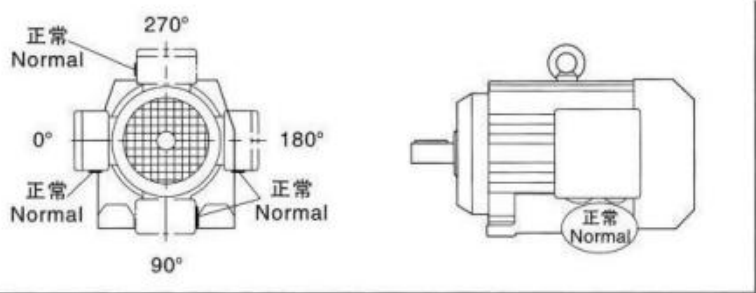
F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors

F/FAB37-157安装形式图 F/FAB37-157 Mounting position example



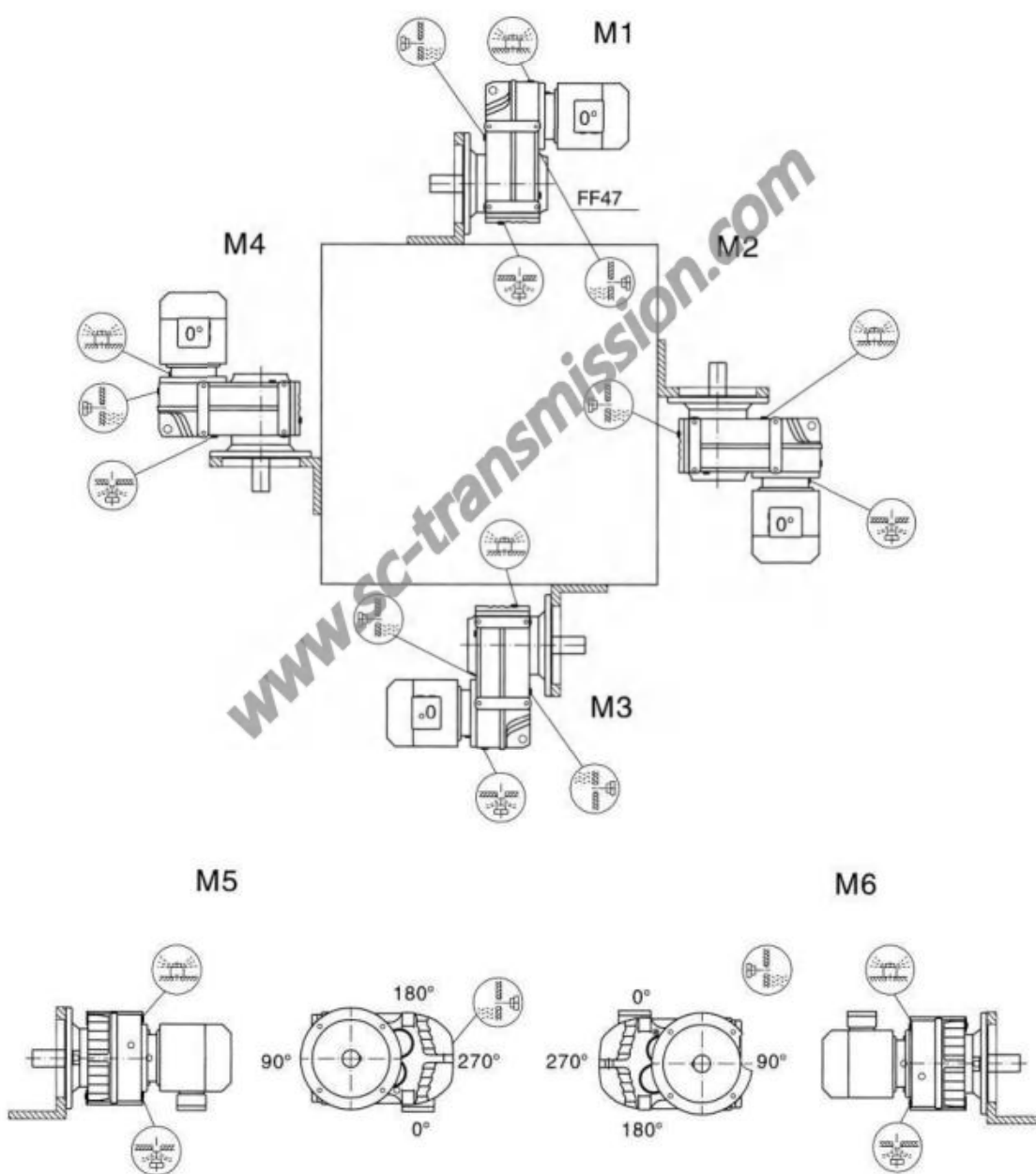
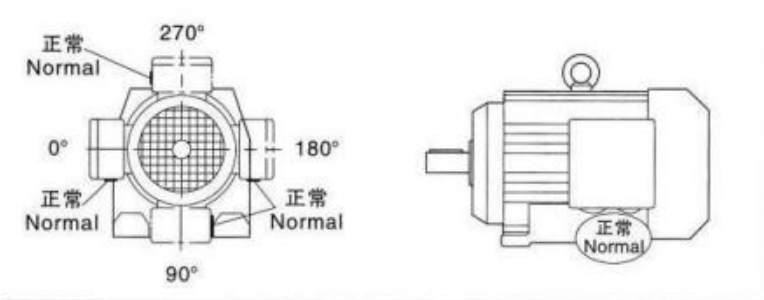
F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors

FA37-157安装形式图 FA37-157 Mounting position example



F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors

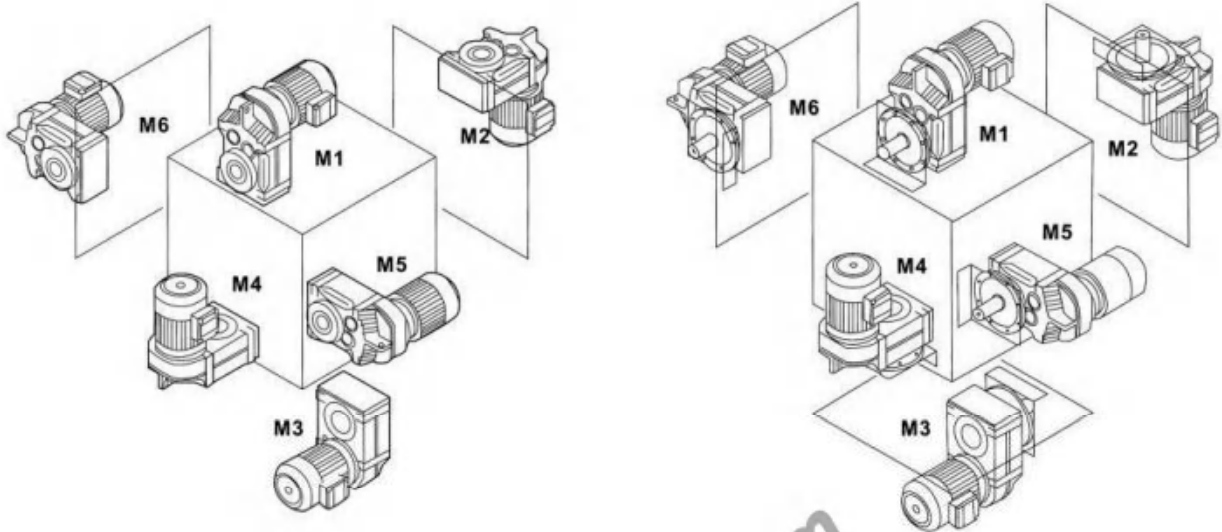
FF/FAF/FAZ37-157安装形式图 FF/FAF/FAZ Mounting position example



F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors

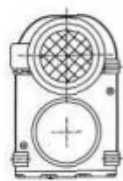
安装形式:

Mounting position:



电机接线盒位置

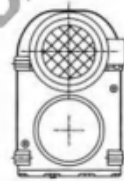
Position of the motor thermal box



0°



90°



180°



270°

输入功率及许用转矩

Input power rating and permissible torque

规格 Size	37	47	57	67	77	87	97	107	127	157
结构形式 Structure	F FA FF FAF FAZ									
输入功率 Input power rating (kw)	0.18~3.0	0.18~3.0	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
传动比 Ratio	3.81~128.51	5.06~189.39	5.18~199.70	4.21~228.99	4.30~281.71	4.12~270.68	4.68~280.76	6.20~254.40	4.63~172.17	11.92~267.43
许用转矩 Permissible torque (N.M)	200	400	600	820	1500	3000	4300	7840	12000	18000

减速机重量

Gear unit weight

规格 Size	37	47	57	67	77	87	97	107	127	157
重量(kg) Weight	13	17	34	55	90	150	260	402	700	950

所注重量为平均值, 仅供参考

The weights are mean values, only for reference.

F系列平行轴-斜齿轮减速机/F parallel shaft-helical geared motors

润滑油量表 Lubrication table

F...

规格 Size	润滑油量 (升)			Fill quantity in liters		
	M1	M2	M3	M4	M5	M6
F37	1	1.2	0.7	1.2	1	1.1
F47	1.5	1.8	1.1	1.9	1.5	1.7
F57	2.6	3.7	2.1	3.5	2.8	2.9
F67	2.7	3.8	1.9	3.8	2.9	3.2
F77	5	7.3	4.3	8	6	6.3
F87	10	13.0	7.7	13.8	10.8	11
F97	18.5	22.5	12.6	25.2	18.5	20
F107	24.5	32	19.5	37.5	27	27
F127	40.5	55	34	61	46.5	47
F157	69	104	63	105	86	78

FF...:

规格 Size	润滑油量 (升)			Fill quantity in liters		
	M1	M2	M3	M4	M5	M6
FF37	1	1.2	0.7	1.3	1	1.1
FF47	1.6	1.9	1.1	1.9	1.5	1.7
FF57	2.8	3.8	2.1	3.7	2.9	3
FF67	2.7	3.8	1.9	3.8	2.9	3.2
FF77	5.1	7.3	4.3	8.1	6	6.3
FF87	10.3	13.2	7.8	14.1	11	11.2
FF97	19	22.5	12.6	25.5	18.9	20.5
FF107	25.5	32	19.5	38.5	27.5	28
FF127	41.5	56	34	63	46.5	49
FF157	72	105	64	106	87	79

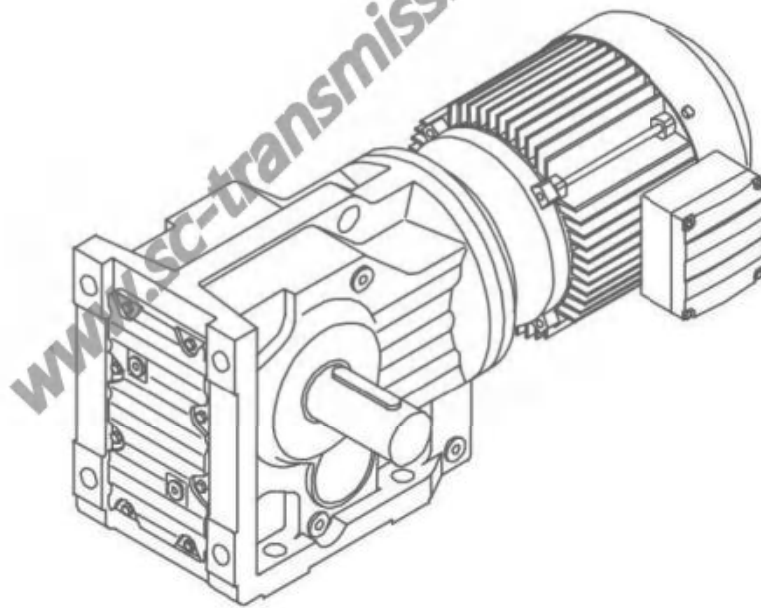
FA...、FAF...、FAZ...:

规格 Size	润滑油量 (升)			Fill quantity in liters		
	M1	M2	M3	M4	M5	M6
F..37	1	1.2	0.7	1.2	1	1
F..47	1.5	1.8	1.1	1.9	1.5	1.7
F..57	2.7	3.8	2.1	3.6	2.9	3
F..67	2.7	3.8	1.9	3.8	2.9	3.2
F..77	5	7.3	4.3	8	6	6.3
F..87	10	13.0	7.7	13.8	10.8	11
F..97	18.5	22.5	12.6	25.0	18.5	20
F..107	24.5	32	19.5	37.5	27	27
F..127	39	55	34	61	45	46.5
F..157	68	103	62	104	85	77



K系列斜齿轮-伞齿轮减速机

K helical-bevel gear motor



K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors

型号说明 Model Notes

减速机符号说明

K	A	67	T	D	80	N	4	BMG	HF	TF	108.03	B	M1	180°
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 产品代码 R--斜齿轮减速机 F--平行轴-斜齿轮减速机 K--斜齿轮-伞齿轮减速机 S--斜齿轮-蜗轮蜗杆减速机	2 装配型式 无代码--底脚安装 F--法兰安装 A--空心轴安装 AF--法兰空心轴安装	3 减速机规格号 67--减速机规格号为67	4 扭矩臂 无代码--无扭矩臂 T--扭矩臂	5 电动机 D--三相异步电动机(IP54) YB--扁型三相异步电动机 YQP--起重用变频调速三相异步电动机 YZP--冶金、起重用变频调速三相异步电动机 YVP--变频调速三相异步电动机 YD--变频多速三相异步电动机	6 电动机规格代号 80--电机中心高为80mm	7 电动机定子铁心长度代号 D、K、N、S、M、ML、L	8 电动机极数 4--电动机极数为4	9 制动器 无代码--无制动器 BMG--制动器	10 手动释放装置 无代码--无手动释放装置 HF--手动释放锁在制动释放位置 HR--手动释放自动返回制动位置	11 电机热保护 无代码--无电机热保护 TF--热敏电阻保护装置 PTC热敏电阻 TH--恒温器保护装置 双金属片开关	12 减速机传动比 108.03--减速机传动比为108.03	13 轴指向 A--轴指向为A B--轴指向为B AB--双输出轴	14 安装位置 M1--安装型式图中M1位	15 接线盒位置 无代码--安装型式图中0°位置 180°--安装型式图中180°位置



Code Introduction

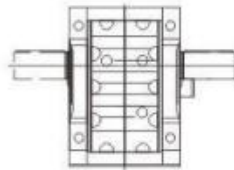
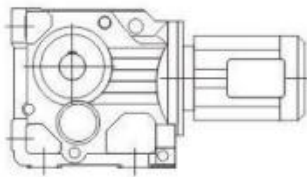
1 Product Code R--Helical Geared Motor F--Parallel Shaft-Helical Geared Motor K--Helical-Bevel Geared Motor S--Helical-Worm Geared Motor	2 Unit Model No Code--Feet-mounted F--Flange-mounted A--Hollow Shaft-mounted AF--Flange-mounted with Hollow Shaft	3 Gear Unit Size 67--Gear Unit Size 67	4 Torque Arm No Code--No Torque Arm T--Torque Arm
5 Electric Motor D--Three Phase Asynchronous Motor(IP 54) YB--Flame-proof Three Phase Asynchronous Motor YQP--Table Roller Three Phase Asynchronous Motor YZP--Metallurgy Hoist Frequency Variable Motor YVP--Frequency Variable Three Phase Motor YD--Multi Speed Three Phase Motor	6 Frame Size 80--Motor Center Height 80mm	7 Stator Length D、K、N、S、M、ML、L	8 Number of Poles 4--4P
9 Brake No Code--No Brakes BMG--Brakes	10 Brake Release No Code--No Brake Release HF--Manual release(lock in the brake release position) Brake Release HR--Manual release(automatic braking position)	11 Thermal Protection No Code--No Thermistor TF--Thermistor Sensor TF--Thermistor protection (PTC thermistor) TH--Thermostat protection (Bimetal switch)	12 Ratio 108.03--Ratio 108.03
13 Position of the Output Shaft A--Shaft with A B--Shaft with B AB--Shaft with A+B	14 Mounting Position M1--Mounting Position M1	15 Terminal Box Position No Code--Terminal Box Position is 0° 180° --Terminal Box Position is 180°	

K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors

设计方案 Versions of geared motors

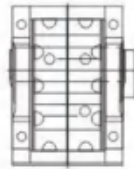
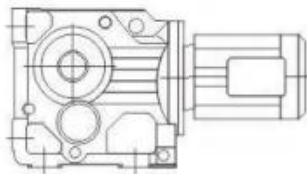
斜齿轮 -- 伞齿轮减速电机有以下设计方案:

The following types of helical-bevel geared motor can be supplied.



K..D..

底脚安装斜齿轮 -- 伞齿轮减速电机
Foot-mounted helical-bevel geared motor



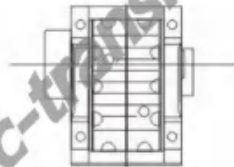
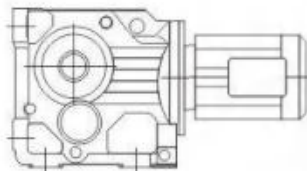
KA..B D..

底脚空心轴安装斜齿轮 -- 伞齿轮减速电机
Foot-mounted helical-bevel geared motor with hollow shaft.

KV..B D..

底脚花键空心轴(DIN5480)安装斜齿轮 -- 伞齿轮减速电机

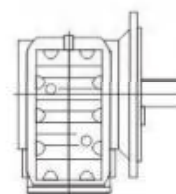
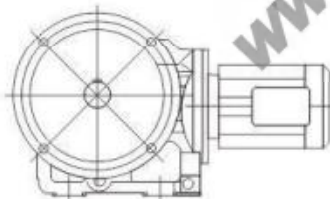
Foot-mounted helical-bevel geared motor with hollow shaft and splined hollow shaft to DIN 5480.



KH..B D..

底脚空心轴锁紧盘安装斜齿轮 -- 伞齿轮减速电机

Foot-mounted helical-bevel geared motor with hollow shaft and shrink disk.



KF..D..

B5 法兰安装斜齿轮 -- 伞齿轮减速电机

Helical-bevel geared motor in B5 flange-mounted version

KAF..D..

B5 法兰空心轴安装斜齿轮 -- 伞齿轮减速电机

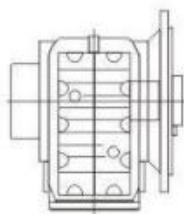
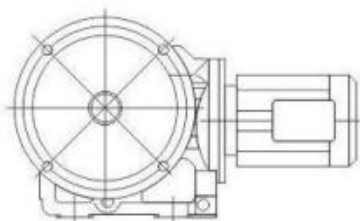
Helical-bevel geared motor in B5 flange-mounted version with hollow shaft.

KVF..D..

B5 法兰花键空心轴(DIN5480)安装斜齿轮 -- 伞齿轮减速电机

Helical-bevel geared motor in B5 flange-mounted version with hollow shaft and splined hollow shaft to DIN 5480.

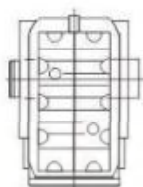
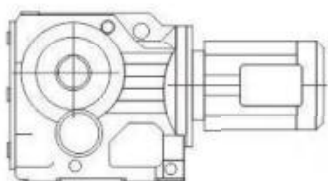
K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors



KHF..D..

B5 法兰空心轴锁紧盘安装斜齿轮 --伞齿轮减速机

Helical-bevel geared motor in B5 flange-mounted version with hollow shaft and shrink disk



KA..D..

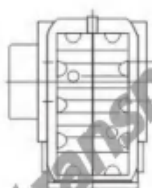
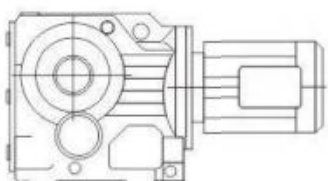
空心轴安装斜齿轮 -- 伞齿轮减速机

Helical-bevel geared motor with hollow shaft.

KV..D..

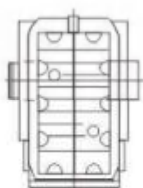
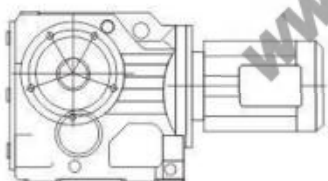
花键空心轴(DIN5480)安装斜齿轮 --伞齿轮减速机

Helical-bevel geared motor with hollow shaft and splined hollow shaft to DIN 5480.



KH..D..

空心轴锁紧盘安装斜齿轮 --伞齿轮减速机
Helical-bevel geared motor with hollow shaft and shrink disk.



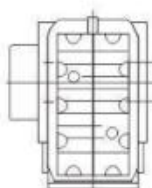
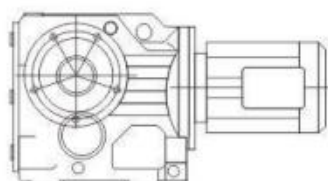
KAZ..D..

B14 法兰空心轴安装斜齿轮 --伞齿轮减速机
Helical-bevel geared motor in B14 flange-mounted version with hollow shaft.

KVZ..D..

B14 法兰花键空心轴(DIN5480)安装斜齿轮 --伞齿轮减速机

Helical-bevel geared motor in B14 flange mounted version with hollow shaft and splined hollow to DIN 5480.



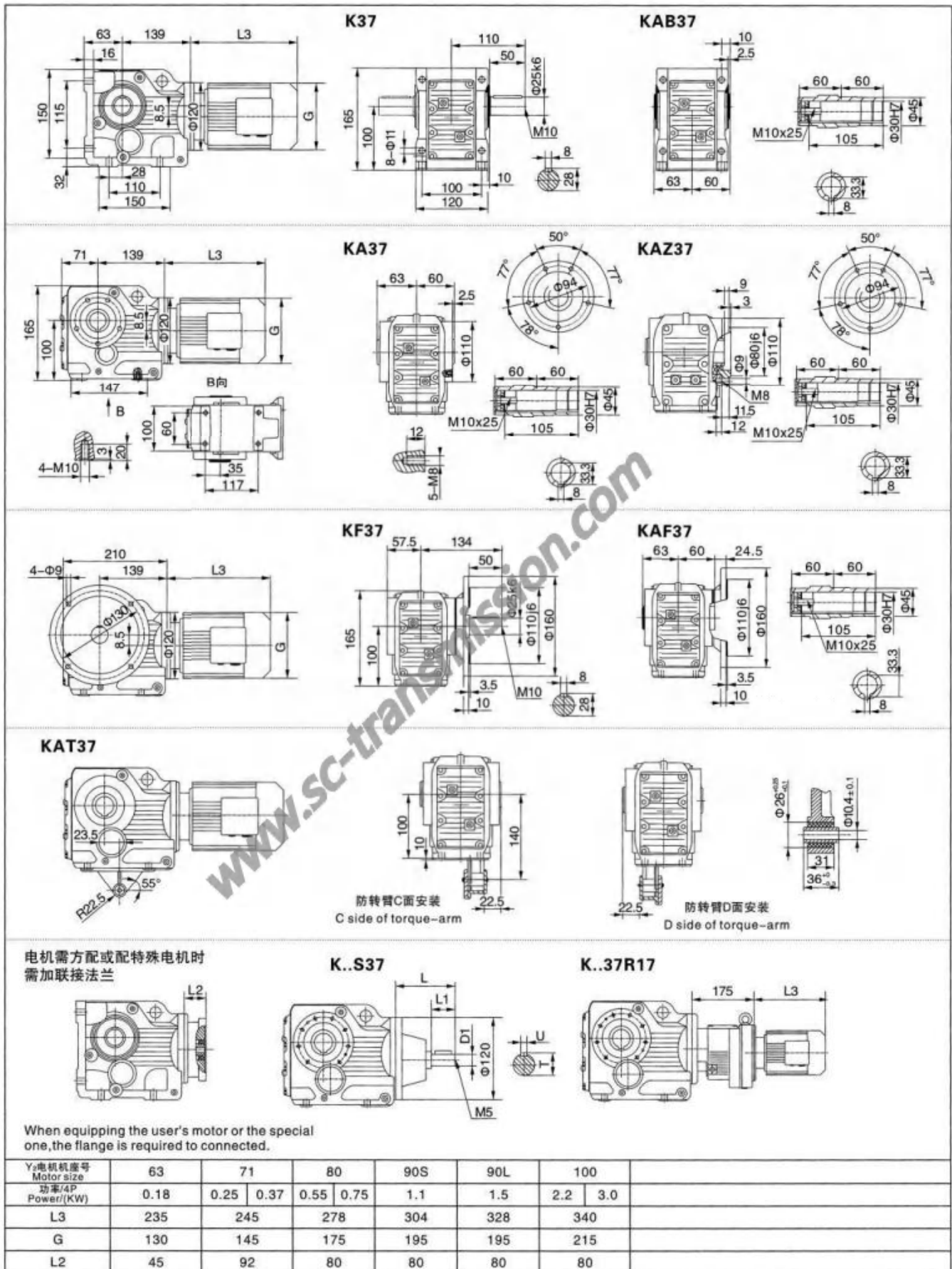
KHZ..D..

B14 法兰空心轴锁紧盘安装斜齿轮 --伞齿轮减速机

Helical-bevel geared motor in B14 flange mounted version with hollow shaft and shrink disk.

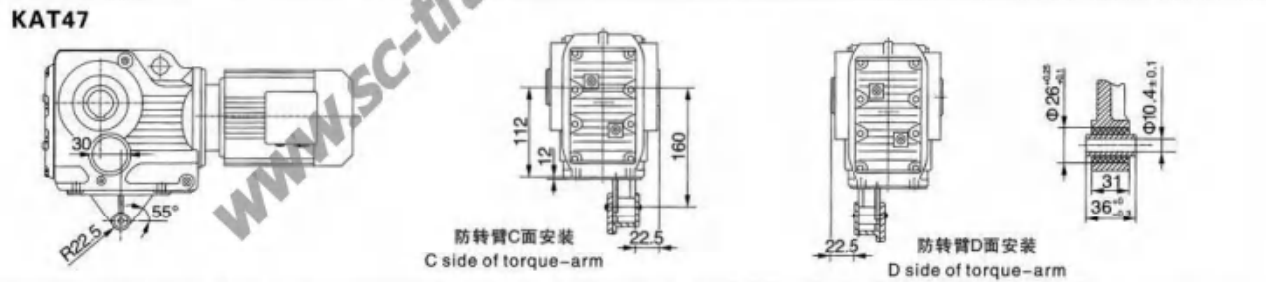
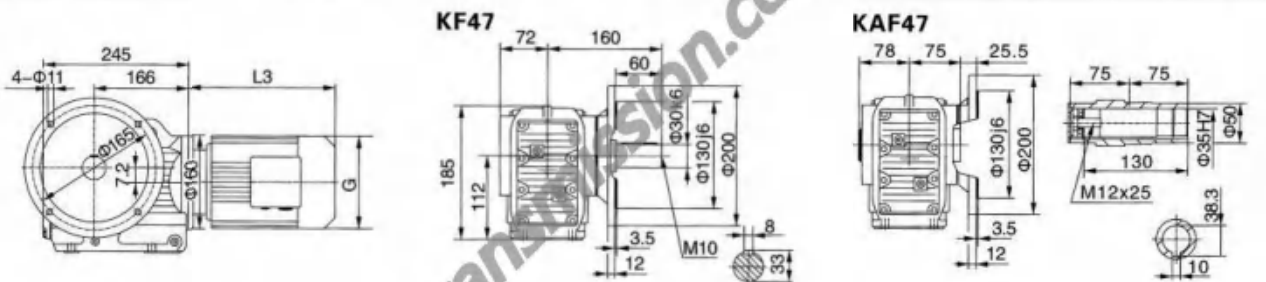
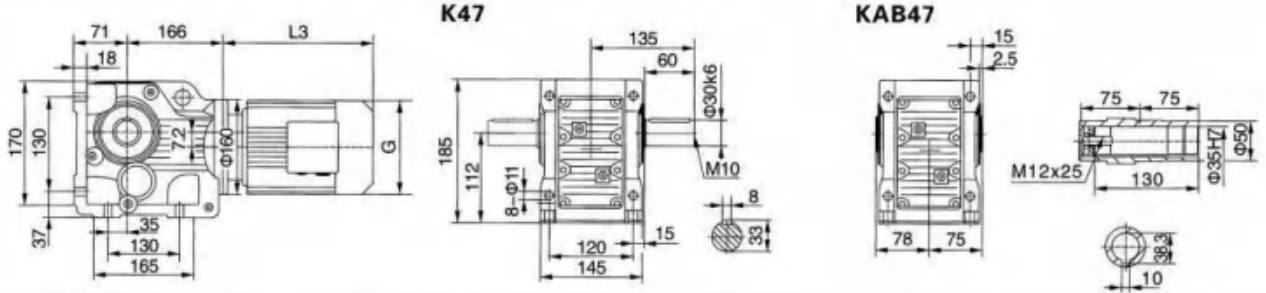


K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors

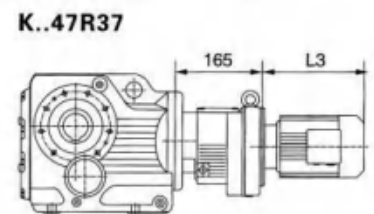
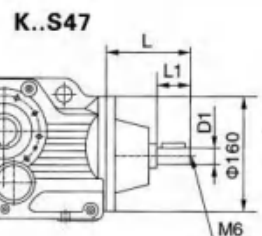
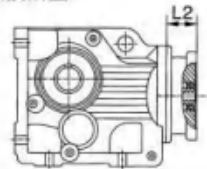


注: 1.KA, KF, KAF, KAZ壳体为通用件, 安装尺寸均可相互参照。 2.*K..*表示K, KA, KF, KAF, KAZ, KAB。
Note: 1.The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other. 2.*K..*mean K, KA, KF, KAF, KAZ, KAB.

K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors



电机需方配或配特殊电机时需加联接法兰

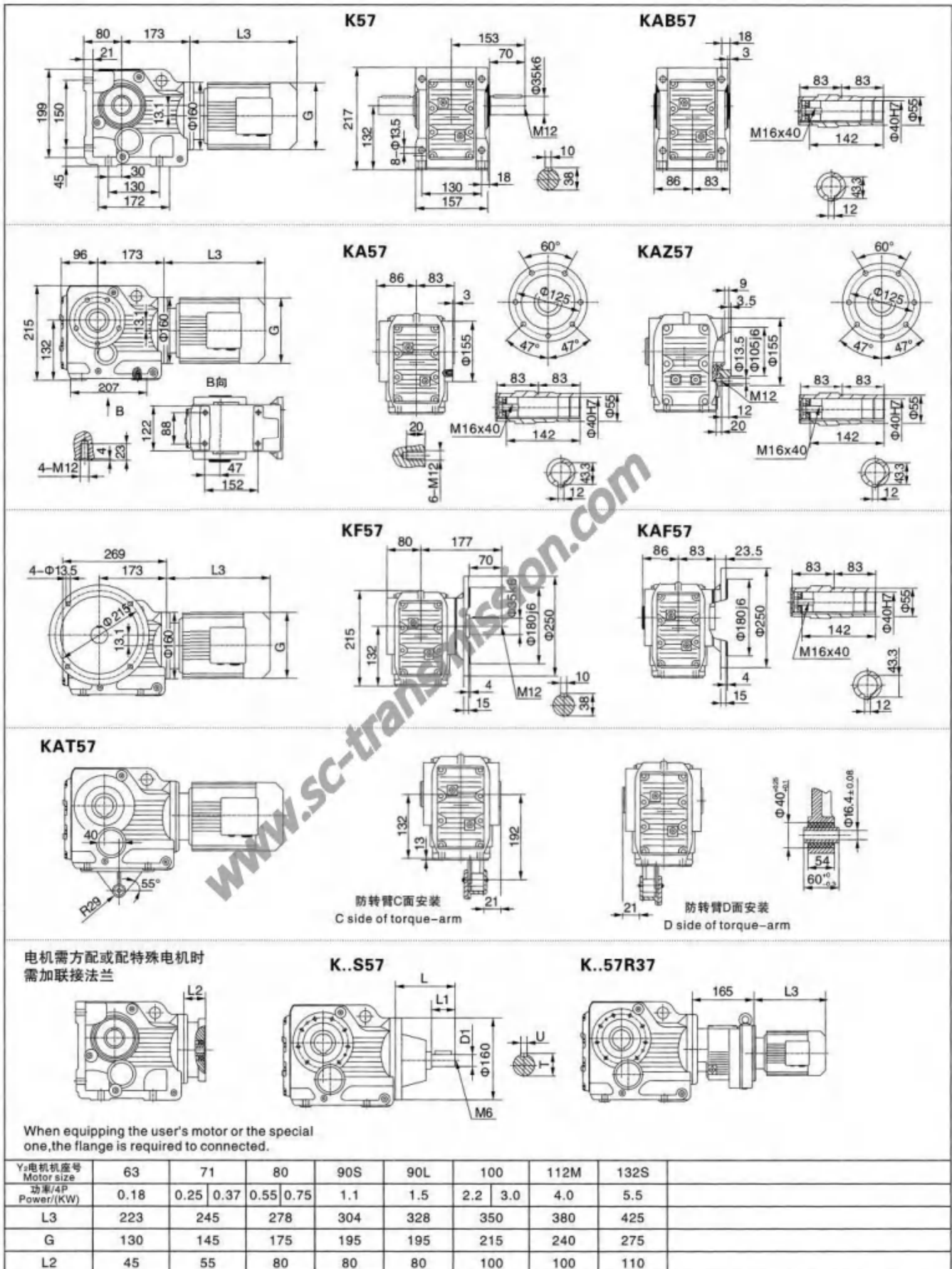


When equipping the user's motor or the special one, the flange is required to be connected.

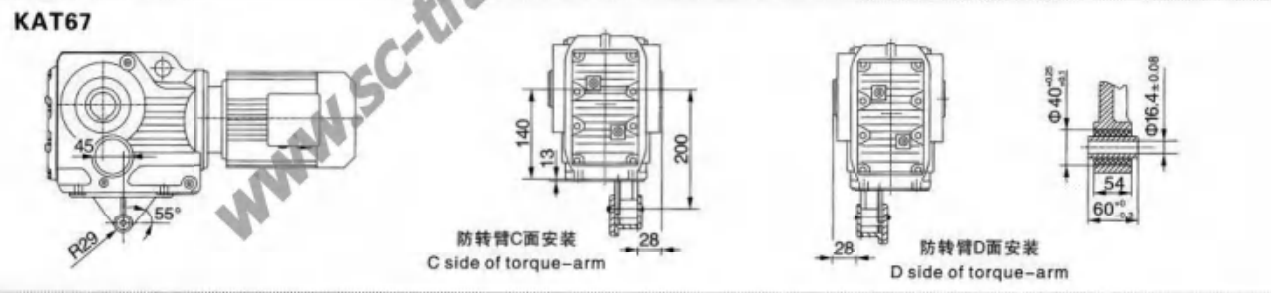
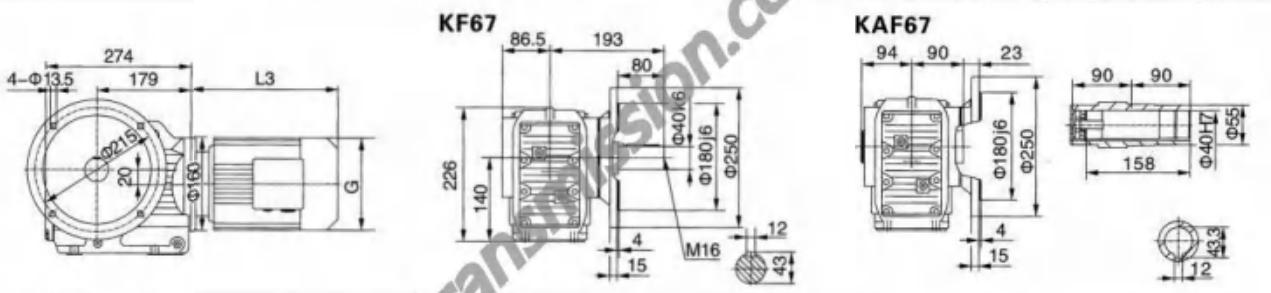
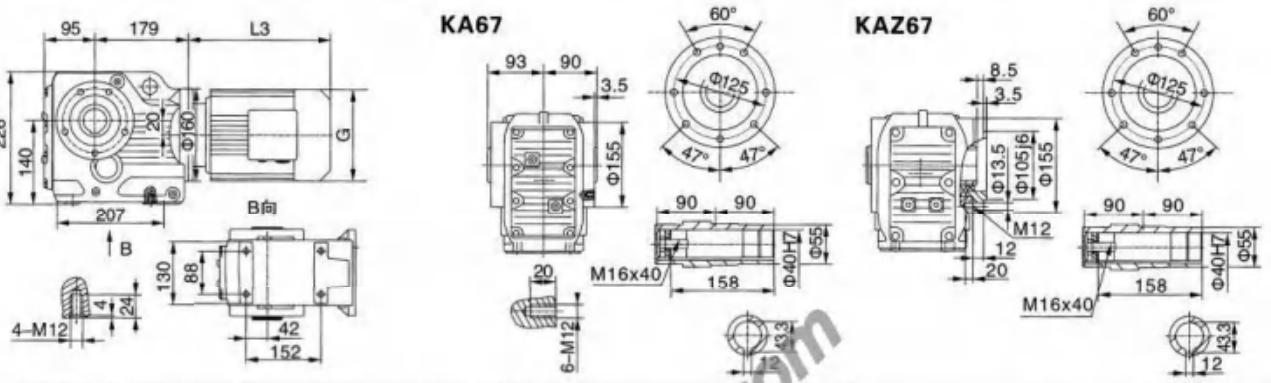
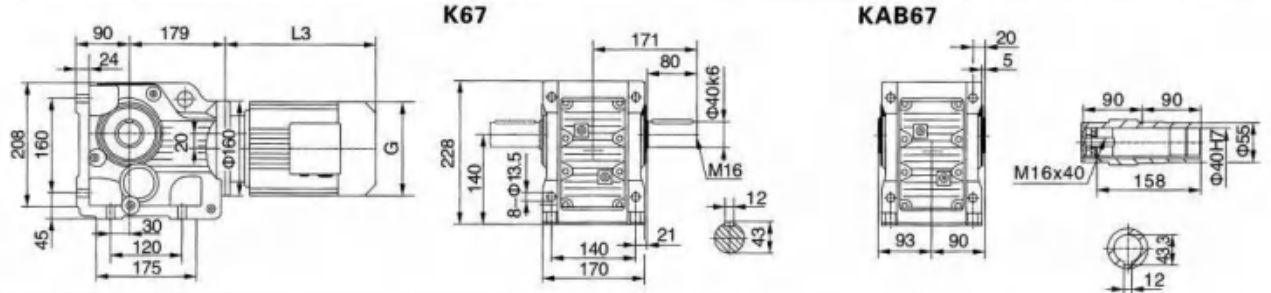
Y ₂ 电机机座号 Motor size	63	71	80	90S	90L	100	112M	132S	
功率/4P Power/(KW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3.0	4.0	5.5	
L3	223	245	278	304	328	350	383	428	
G	130	145	175	195	195	215	240	275	
L2	45	55	80	80	80	100	100	110	

注: 1.KA、KF、KAF、KAZ壳体为通用件, 安装尺寸均可相互参照。 2.*K..表示K、KA、KF、KAF、KAZ、KAB。
Note: 1.The housings of KA、KF、KAF、KAZ are common parts. The mounting dimensions may consult each other. 2.*K..mean K、KA、KF、KAF、KAZ、KAB.

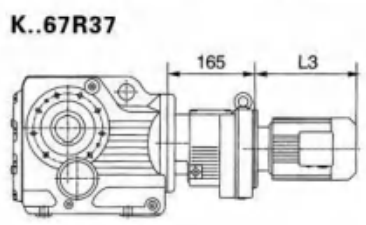
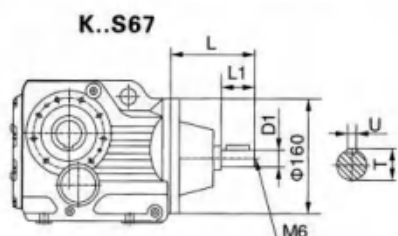
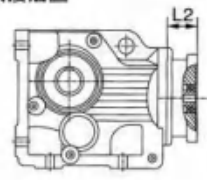
K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors



K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors



电机需方配或配特殊电机时需加联接法兰

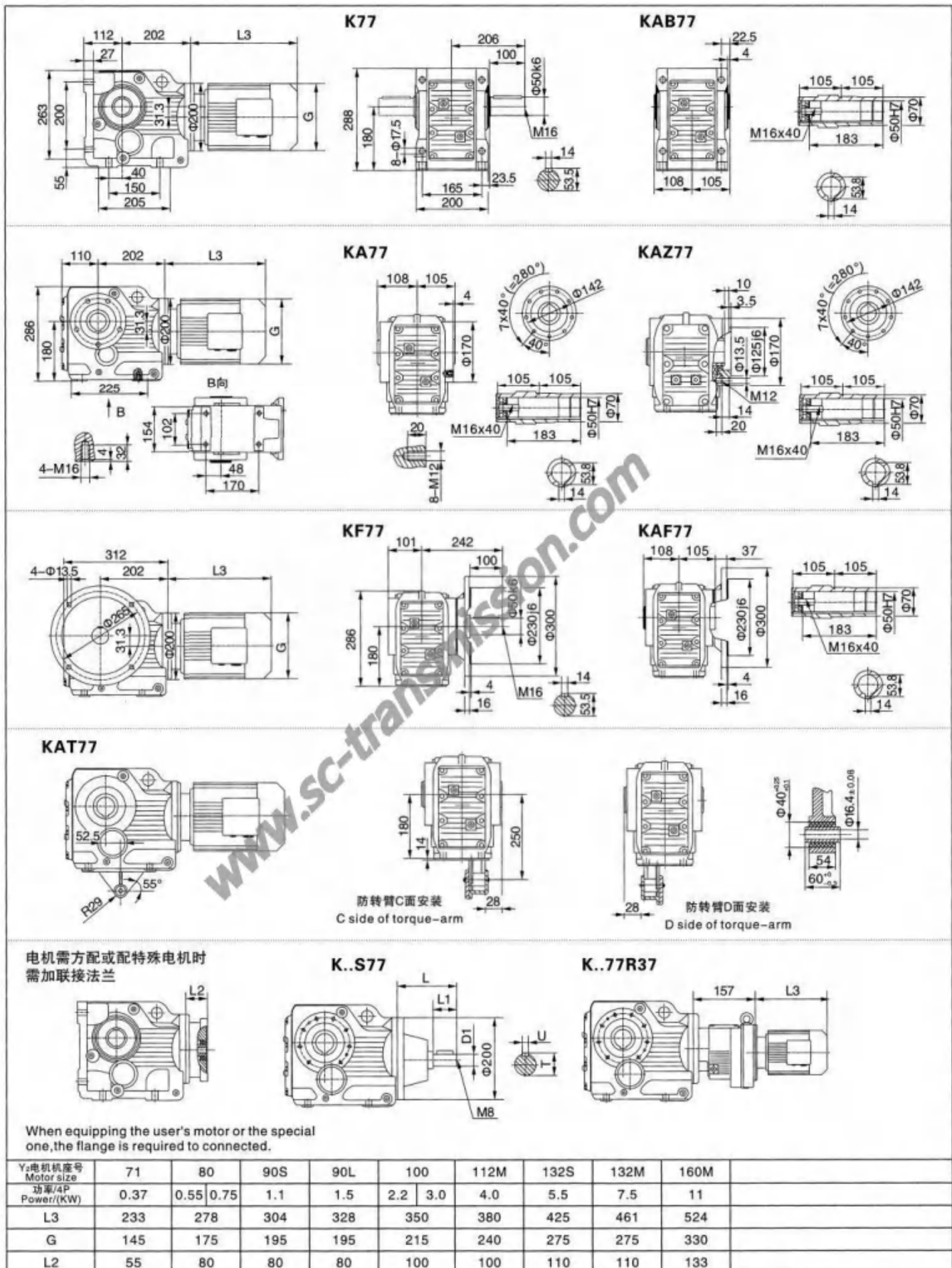


When equipping the user's motor or the special one, the flange is required to be connected.

Y: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 3.0	4.0	5.5
L3	223	245	278	304	328	350	380	425
G	130	145	175	195	195	215	240	275
L2	45	55	80	80	80	100	100	110

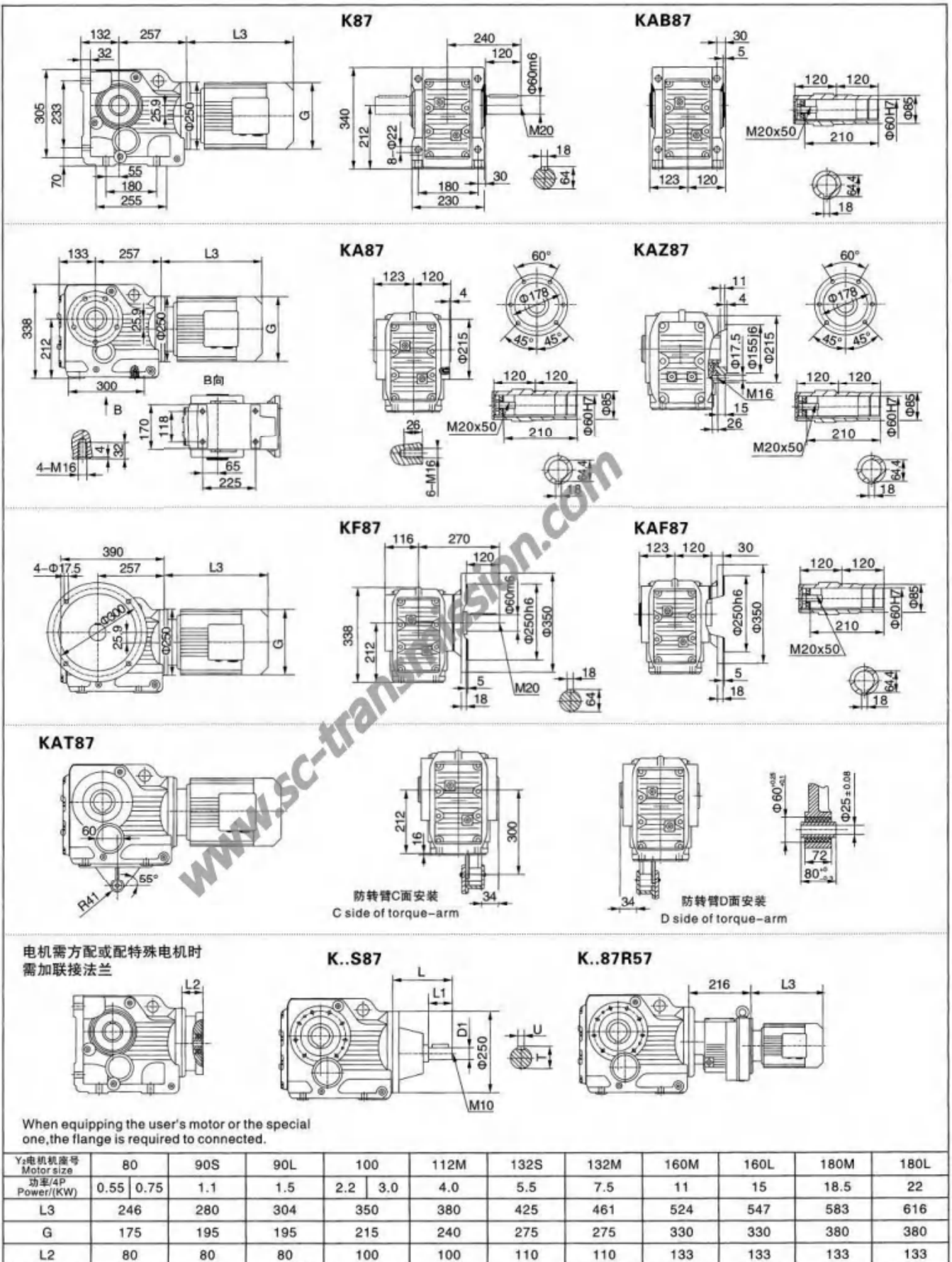
注: 1.KA、KF、KAF、KAZ壳体为通用件, 安装尺寸均可相互参照。 2.*K..表示K、KA、KF、KAF、KAZ、KAB。
Note: 1.The housings of KA、KF、KAF、KAZ are common parts. The mounting dimensions may consult each other. 2.*K..mean K、KA、KF、KAF、KAZ、KAB.

K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors



注: 1.KA、KF、KAF、KAZ壳体为通用件, 安装尺寸均可相互参照。 2.*K..*表示K、KA、KF、KAF、KAZ、KAB。
 Note: 1.The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other. 2.*K..*mean K, KA, KF, KAF, KAZ, KAB.

K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors



电机需方配或配特殊电机时需加联接法兰

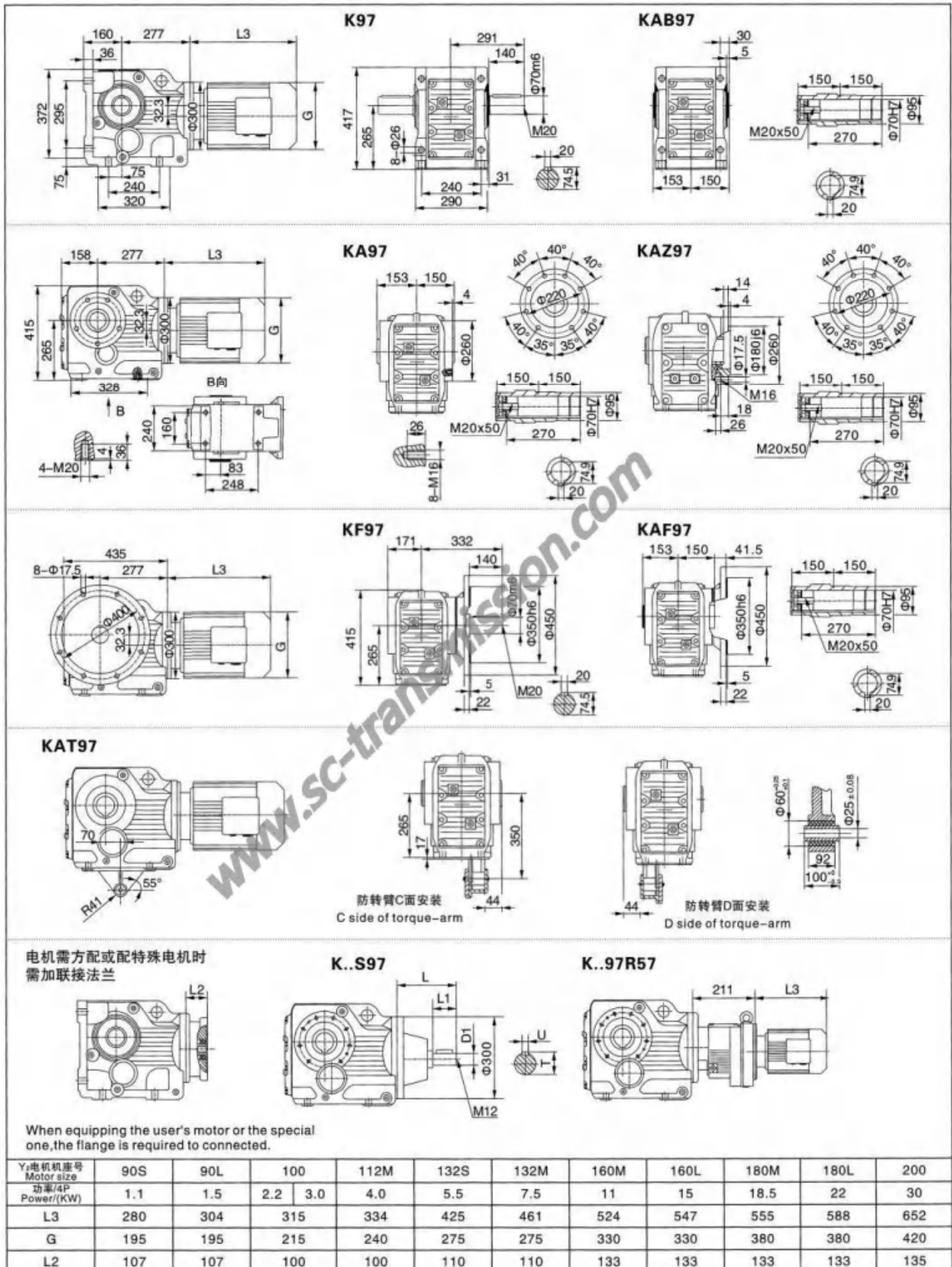
When equipping the user's motor or the special one, the flange is required to connected.

Y ₂ 电机机座号 Motor size	80	90S	90L	100	112M	132S	132M	160M	160L	180M	180L
功率/4P Power/(KW)	0.55 0.75	1.1	1.5	2.2 3.0	4.0	5.5	7.5	11	15	18.5	22
L3	246	280	304	350	380	425	461	524	547	583	616
G	175	195	195	215	240	275	275	330	330	380	380
L2	80	80	80	100	100	110	110	133	133	133	133

注: 1.KA、KF、KAF、KAZ壳体为通用件, 安装尺寸均可相互参照。 2."K.."表示K、KA、KF、KAF、KAZ、KAB。

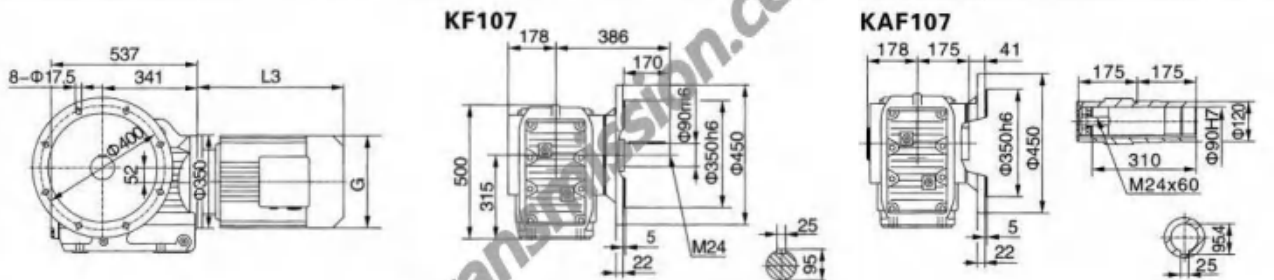
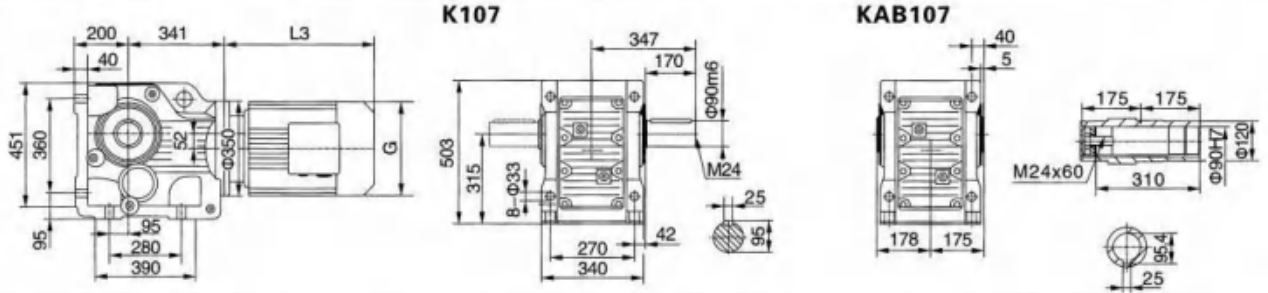
Note: 1.The housings of KA、KF、KAF、KAZ are common parts. The mounting dimensions may consult each other. 2."K.."mean K、KA、KF、KAF、KAZ、KAB.

K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors

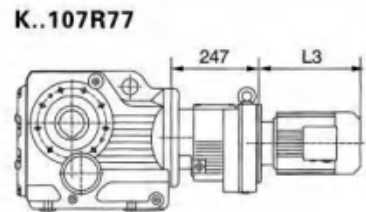
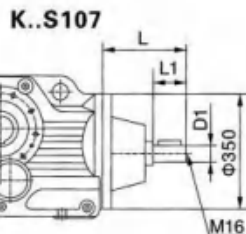
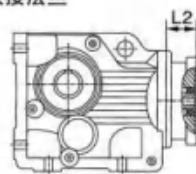


注: 1.KA、KF、KAF、KAZ壳体为通用件, 安装尺寸均可相互参照。 2."K.."表示K、KA、KF、KAF、KAZ、KAB。
 Note: 1.The housings of KA、KF、KAF、KAZ are common parts. The mounting dimensions may consult each other. 2."K.."mean K、KA、KF、KAF、KAZ、KAB.

K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors



电机需方配或配特殊电机时需加联接法兰



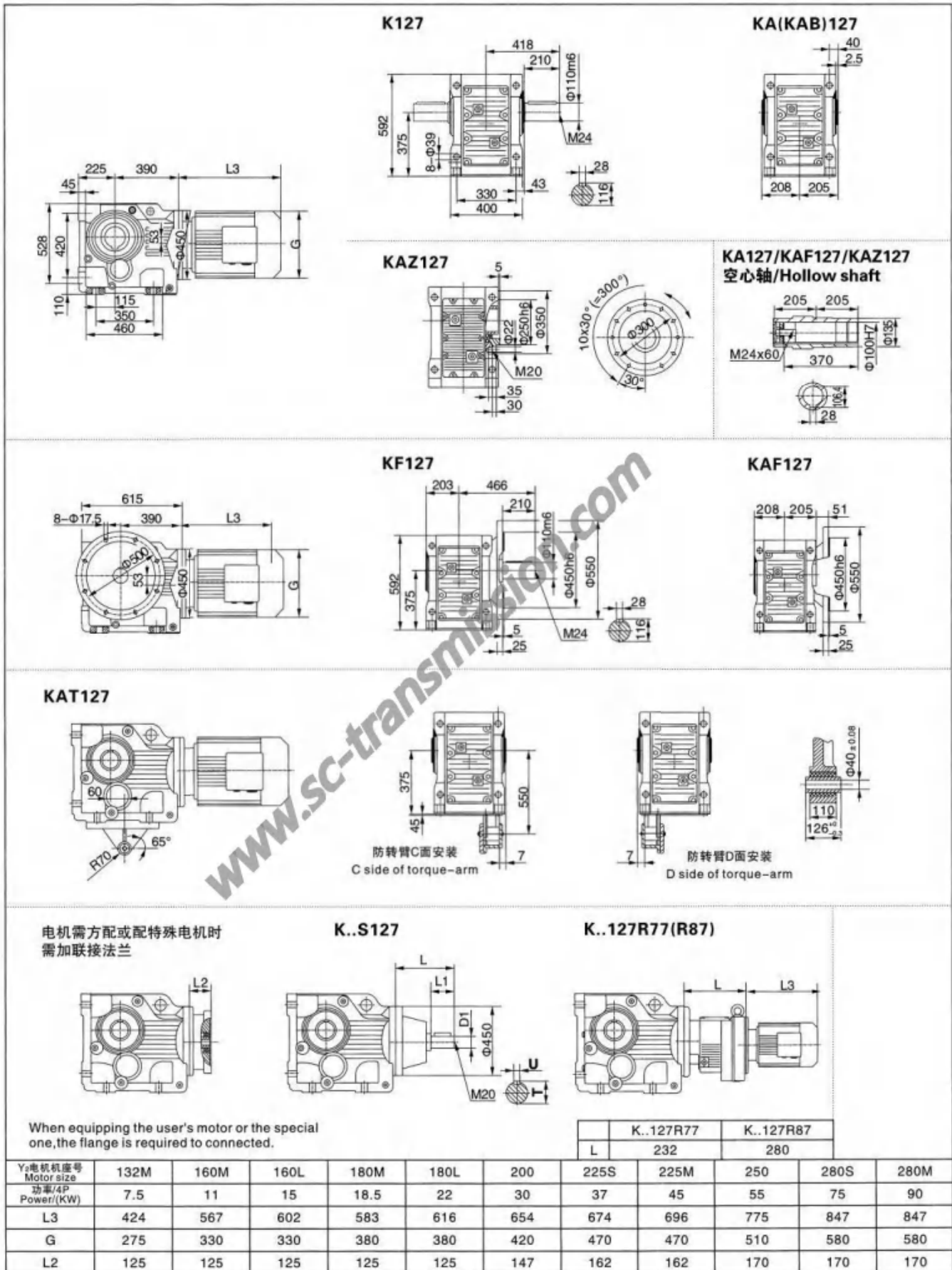
When equipping the user's motor or the special one, the flange is required to connected.

Y ₂ 电机机座号 Motor size	100	112M	132S	132M	160M	160L	180M	180L	200	225S	225M
功率/4P Power/(KW)	3.0	4.0	5.5	7.5	11	15	18.5	22	30	37	45
L3	318	334	386	422	504	519	555	588	654	680	702
G	215	240	275	275	330	330	380	380	420	470	470
L2	100	100	110	110	133	133	133	133	135	143	143

注：1.KA、KF、KAF、KAZ壳体为通用件，安装尺寸均可相互参照。2.“K..”表示K、KA、KF、KAF、KAZ、KAB。

Note: 1.The housings of KA、KF、KAF、KAZ are common parts. The mounting dimensions may consult each other. 2.“K..”mean K、KA、KF、KAF、KAZ、KAB.

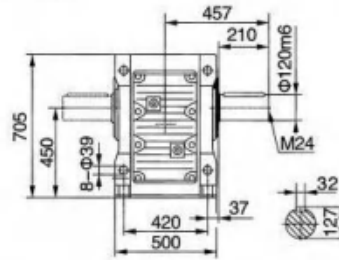
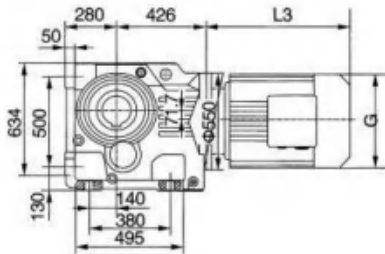
K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors



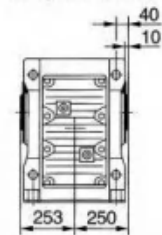
注: 1.KA、KF、KAF、KAZ壳体为通用件, 安装尺寸均可相互参照。 2.*K..表示K、KA、KF、KAF、KAZ、KAB。
 Note: 1.The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other. 2.*K..mean K, KA, KF, KAF, KAZ, KAB.

K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors

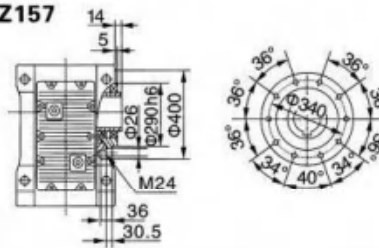
K157



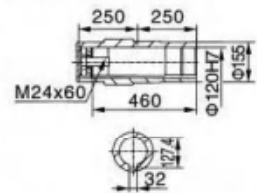
KA(KAB)157



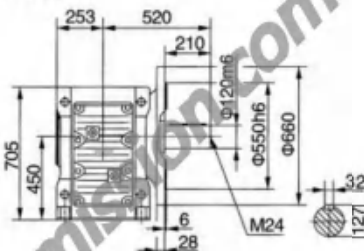
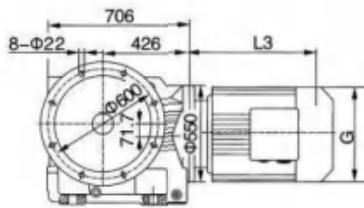
KAZ157



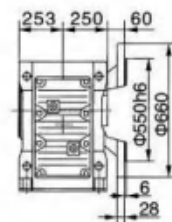
KA157/KAF157/KAZ157
空心轴/Hollow shaft



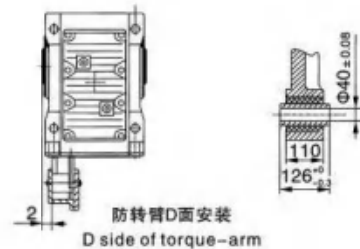
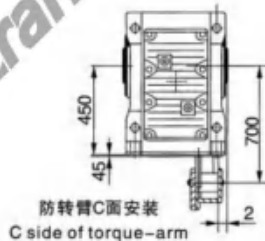
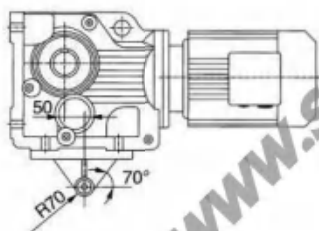
KF157



KAF157

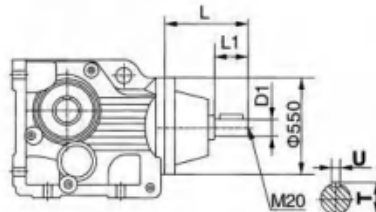
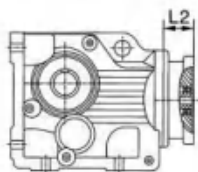


KAT157

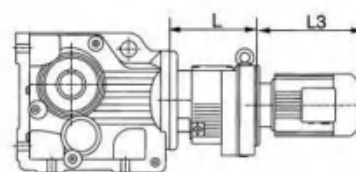


电机需方配或配特殊电机时需加联接法兰

K..S157



K..157R97(R107)



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

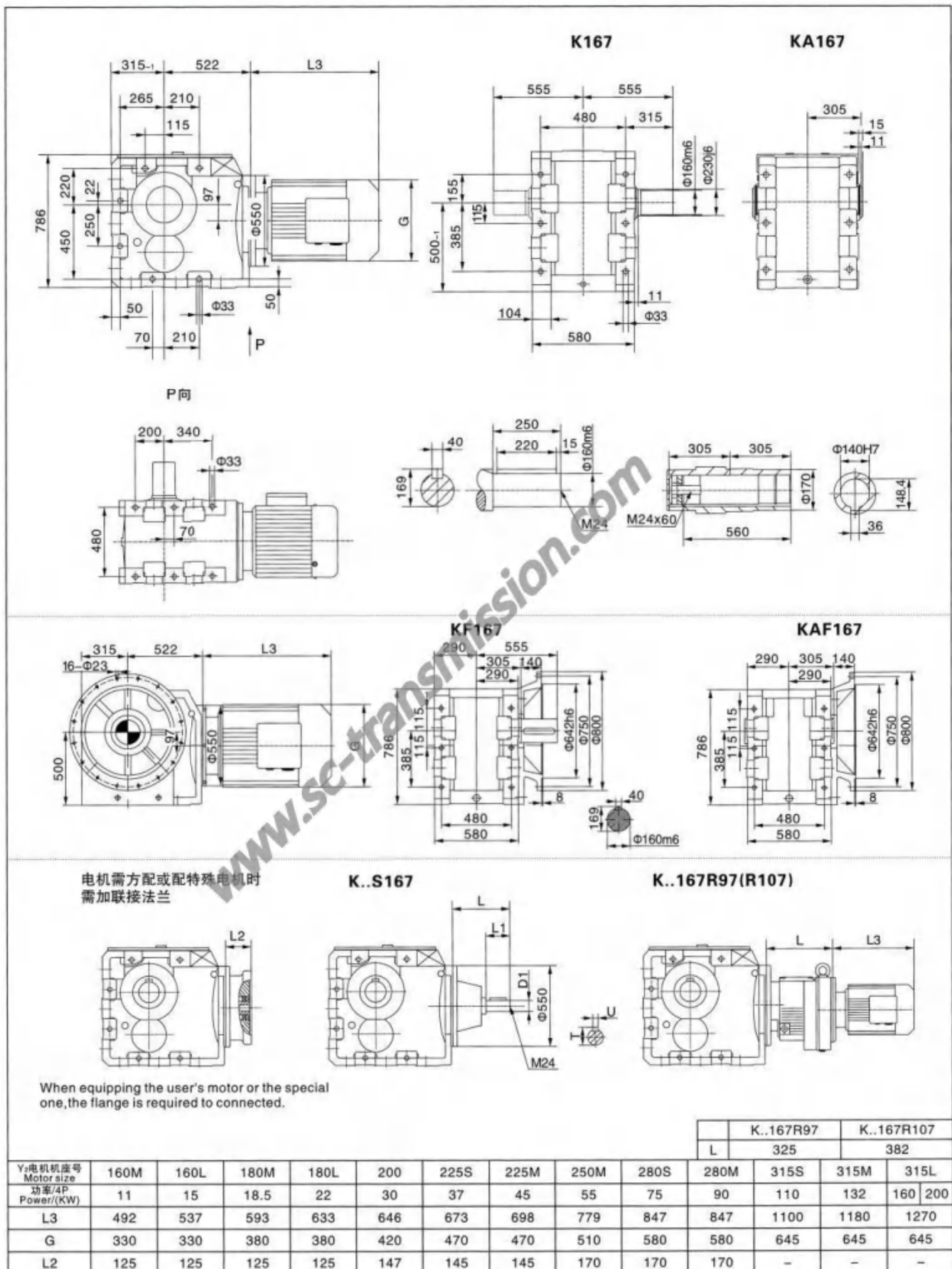
	K..157R97	K..157R107
L	325	382

Y:电机座号 Motor size	160M	160L	180M	180L	200	225S	225M	250M	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	567	602	635	666	642	669	691	770	828	879	1100	1180	1270
G	330	330	380	380	420	470	470	510	580	580	645	645	645
L2	125	125	125	125	147	145	145	170	170	170	-	-	-

注: 1.KA, KF, KAF, KAZ壳体为通用件, 安装尺寸均可相互参照。 2."K.."表示K, KA, KF, KAF, KAZ, KAB。

Note: 1.The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other. 2."K.."mean K, KA, KF, KAF, KAZ, KAB.

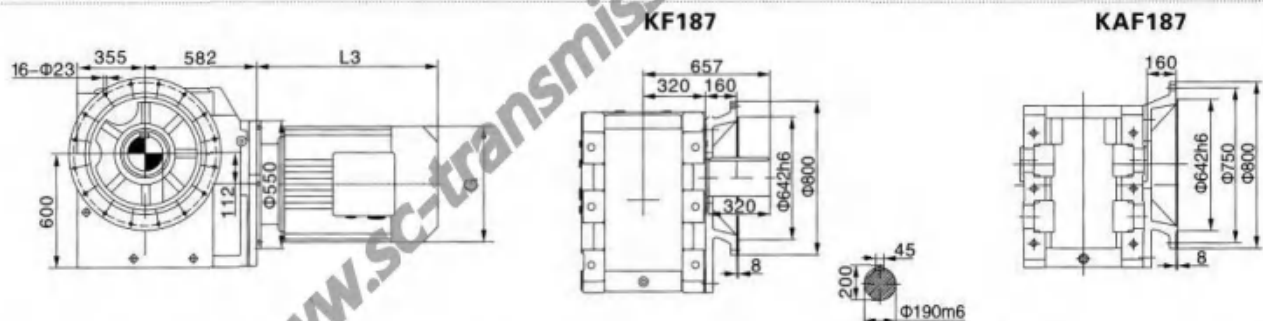
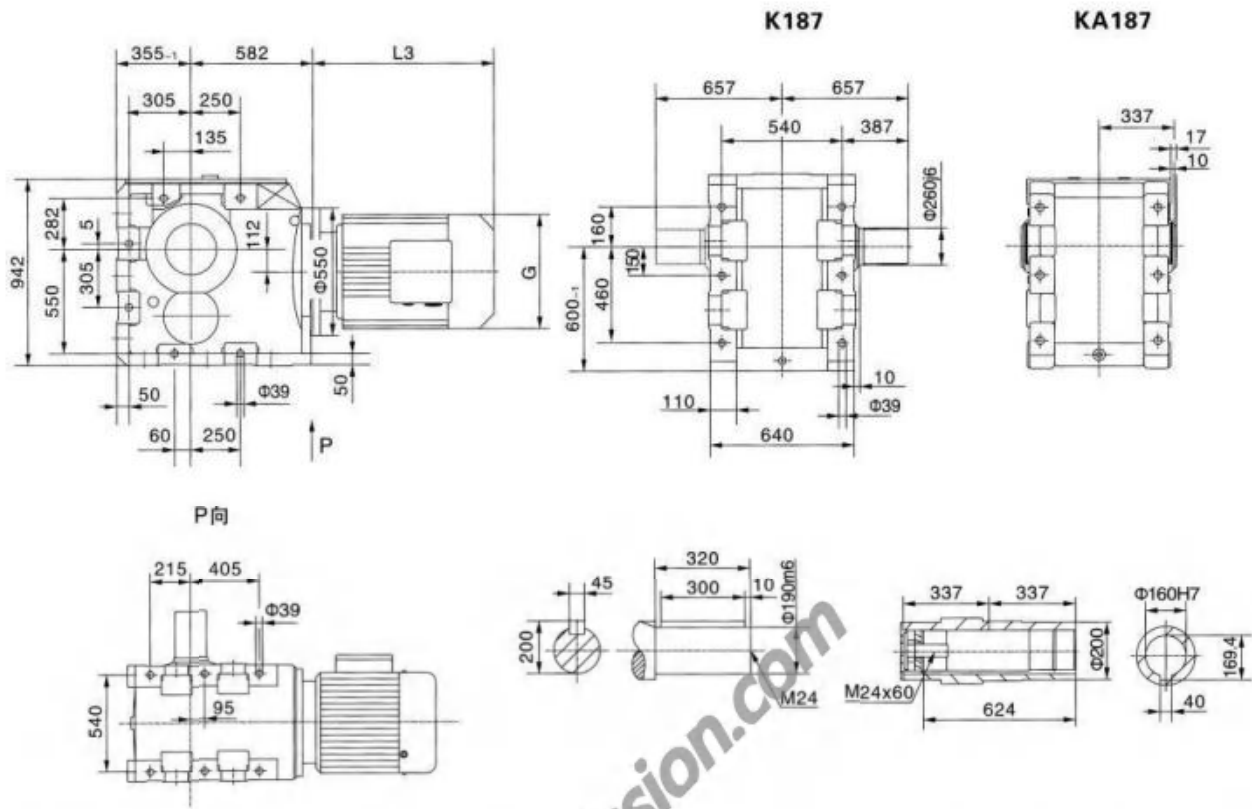
K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors



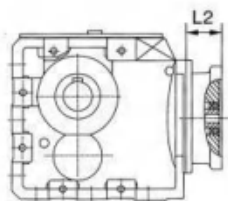
注: 1.KA、KF、KAF、KAZ壳体为通用件, 安装尺寸均可相互参照。 2."K.."表示K、KA、KF、KAF、KAZ、KAB。

Note: 1.The housings of KA、KF、KAF、KAZ are common parts. The mounting dimensions may consult each other. 2."K.."mean K、KA、KF、KAF、KAZ、KAB

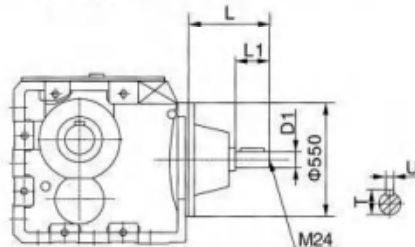
K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors



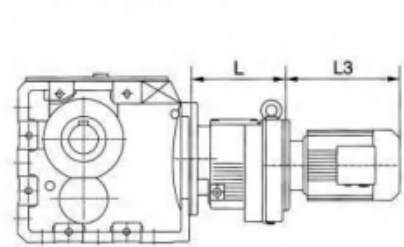
电机需方配或配特殊电机时需加联接法兰



K..S187



K..187R97(R107)



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

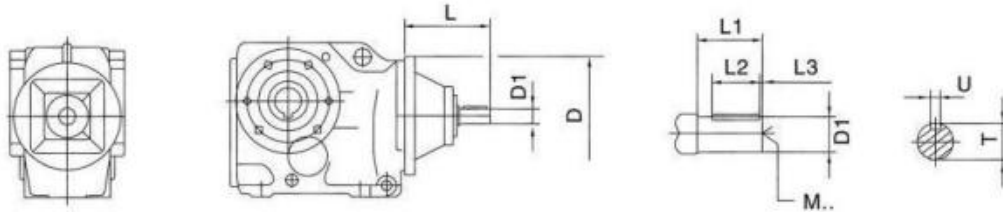
Y ₂ 电机座号 Motor size	160M	160L	180M	180L	200	225S	225M	250M	280S	K..187R97		K..187R107		
										L	325	382	315S	315M
功率/4P Power/(KW)	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200
L3	492	537	593	633	646	673	698	779	847	847	1100	1180	1270	
G	330	330	380	380	420	470	470	510	580	580	645	645	645	
L2	125	125	125	125	147	145	145	170	170	170	-	-	-	

注：1.KA、KF、KAF、KAZ壳体为通用件，安装尺寸均可相互参照。 2.“K..”表示K、KA、KF、KAF、KAZ、KAB。

Note: 1.The housings of KA、KF、KAF、KAZ are common parts. The mounting dimensions may consult each other. 2.“K..”mean K、KA、KF、KAF、KAZ、KAB.

K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors

K..AD..

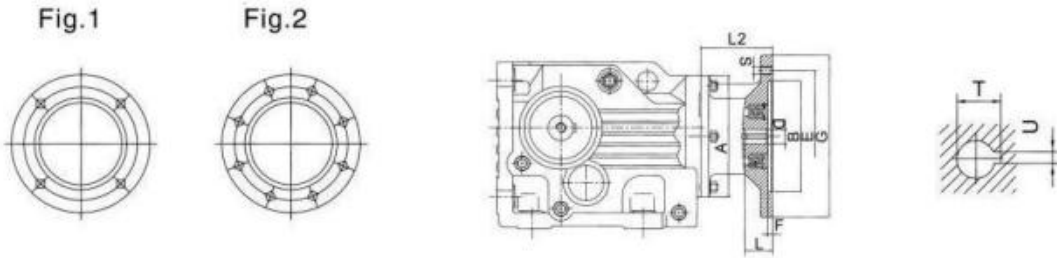


		D	L	D1	L1	L3	L2	T	U	M
K..37	AD1	120	102	16	40	4	32	18	5	M5
	AD2		130	19	40	4	32	21.5	6	M6
K..47 K..57 K..67	AD2	160	123	19	40	4	32	21.5	6	M6
	AD3		159	24	50	5	40	27	8	M8
K..77	AD2	200	116	19	40	4	32	21.5	6	M6
	AD3		151	24	50	5	40	27	8	M8
	AD4		224	38	80	5	70	41	10	M12
K..87	AD2	250	111	19	40	4	32	21.5	6	M6
	AD3		156	28	60	5	50	31	8	M10
	AD4		219	38	80	5	70	41	10	M12
	AD5		292	42	110	10	70	45	12	M16
K..97	AD3	300	151	28	60	5	50	31	8	M10
	AD4		214	38	80	5	70	41	10	M12
	AD5		287	42	110	10	70	45	12	M16
	AD6		327	48	110	10	80	51.5	14	M16
K..107	AD3	350	145	28	60	5	50	31	8	M10
	AD4		208	38	80	5	70	41	10	M12
	AD5		281	42	110	10	70	45	12	M16
	AD6		321	48	110	10	80	51.5	14	M16
K..127	AD4	450	193	38	80	5	70	41	10	M12
	AD5		266	42	110	10	70	45	12	M16
	AD6		306	48	110	10	80	51.5	14	M16
	AD7		300	55	110	10	90	59	16	M20
	AD8		383	70	140	15	110	74.5	20	M20
K..187 K..167 K..157	AD5	550	258	42	110	10	70	45	12	M16
	AD6		298	48	110	10	80	51.5	14	M16
	AD7		292	55	110	10	90	59	16	M20
	AD8		374	70	140	15	110	74.5	20	M20



K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors

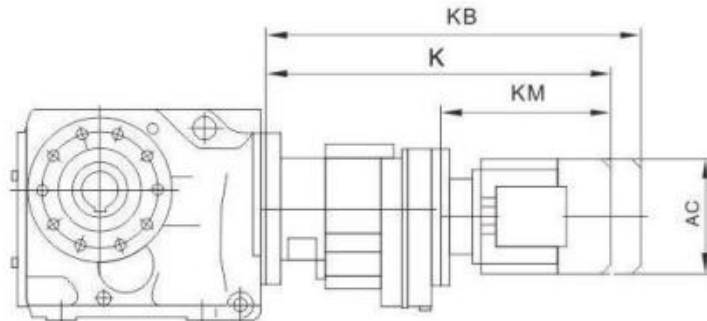
K..AM..



			B	E	F	A	G	S	L2	D	L	T	U
K..37	Am63	Fig1	95	115	3.5	120	140	M8	45	11	23	12.8	4
	AM71*	1	110	130			160		92	14	30	16.3	5
	AM80*		130	165	4.5		200	M10	80	19	40	21.8	6
	AM90*		24	50	27.3		8						
K..47 K..57 K..67	Am63	1	95	115	3.5	160	140	M8	45	11	23	12.8	4
	Am71		110	130			160		55	14	30	16.3	5
	Am80		130	165	4.5		200	M10	80	19	40	21.8	6
	Am90		24	50	27.3		8						
	AM100*		180	215	5		250	M12	100	28	60	31.3	8
	AM112*		110	38	80		41.3		10				
K..77	AM63	1	95	115	3.5	200	140	M8	45	11	23	12.8	4
	Am71		110	130			160		55	14	30	16.3	5
	Am80		130	165	4.5		200	M10	80	19	40	21.8	6
	Am90		24	50	27.3		8						
	AM100*		180	215	5		250	M12	100	28	60	31.3	8
	AM112*		110	38	80		41.3		10				
	AM132S*		230	265	5		300		110	38	80	41.3	10
	AM132M*		230	265	5		300		110	38	80	41.3	10
AM132ML*	230	265	5	300	110	38	80	41.3	10				
K..87	Am80	1	130	165	4.5	250	200	M10	80	19	40	21.8	6
	Am90									24	50	27.3	8
	Am100		180	215	5		250	M12	100	28	60	31.3	8
	Am112									110	38	80	41.3
	AM132S		230	265	5		250	M12	100	28	60	31.3	8
	AM132M									110	38	80	41.3
	AM132ML		230	265	5		250	M12	100	28	60	31.3	8
	AM160*									110	38	80	41.3
AM180*	250	300	6	350	M16	133	42	110	45.3	12			
	48	51.8	14										
K..97	Am100	1	180	215	5	300	250	M12	100	28	60	31.3	8
	Am112									110	38	80	41.3
	AM132S		230	265	5		300	M12	110	38	80	41.3	10
	AM132M									110	38	80	41.3
	AM132ML		230	265	5		300	M12	110	38	80	41.3	10
	AM160									110	38	80	41.3
	Am180		250	300	6		350	M16	133	42	110	45.3	12
	AM200*		48	51.8	14								
	AM225*		300	350	7		400		135	55		59.3	16
	450	143	60	140	64.4	18							

K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors

K..R..



		AC	K	KM
K..37R17	D63..	138	368	193
	D71D	158	369	194
	D80..	168	419	244
K..47R37 K..57R37	D63..	138	386	221
	D71D	158	404	239
	D80..	168	436	271
K..67R37	D63..	138	386	221
	D71D	158	404	239
	D80..	168	436	271
	D90..	195	479	314
K..77R37	D63..	138	378	221
	D71D	158	396	233
	D80..	168	428	271
	D90..	195	471	314
K..87R57	D63..	138	432	216
	D71D	158	450	234
	D80..	168	481	265
	D90..	195	525	309
	D100M	218	542	326
	D100L	218	542	326
K97..R57	D63..	138	427	216
	D71D	158	445	234
	D80..	168	476	265
	D90..	195	520	309
	D100M	218	537	326
	D100L	218	537	326
	D112M	240	593	382
K..107R77	D63..	138	457	210
	D71D	158	425	228
	D80..	168	506	259
	D90..	195	548	301
	D100M	218	565	318
	D100L	218	565	318
	D112M	240	620	373
	D132S	275	655	408

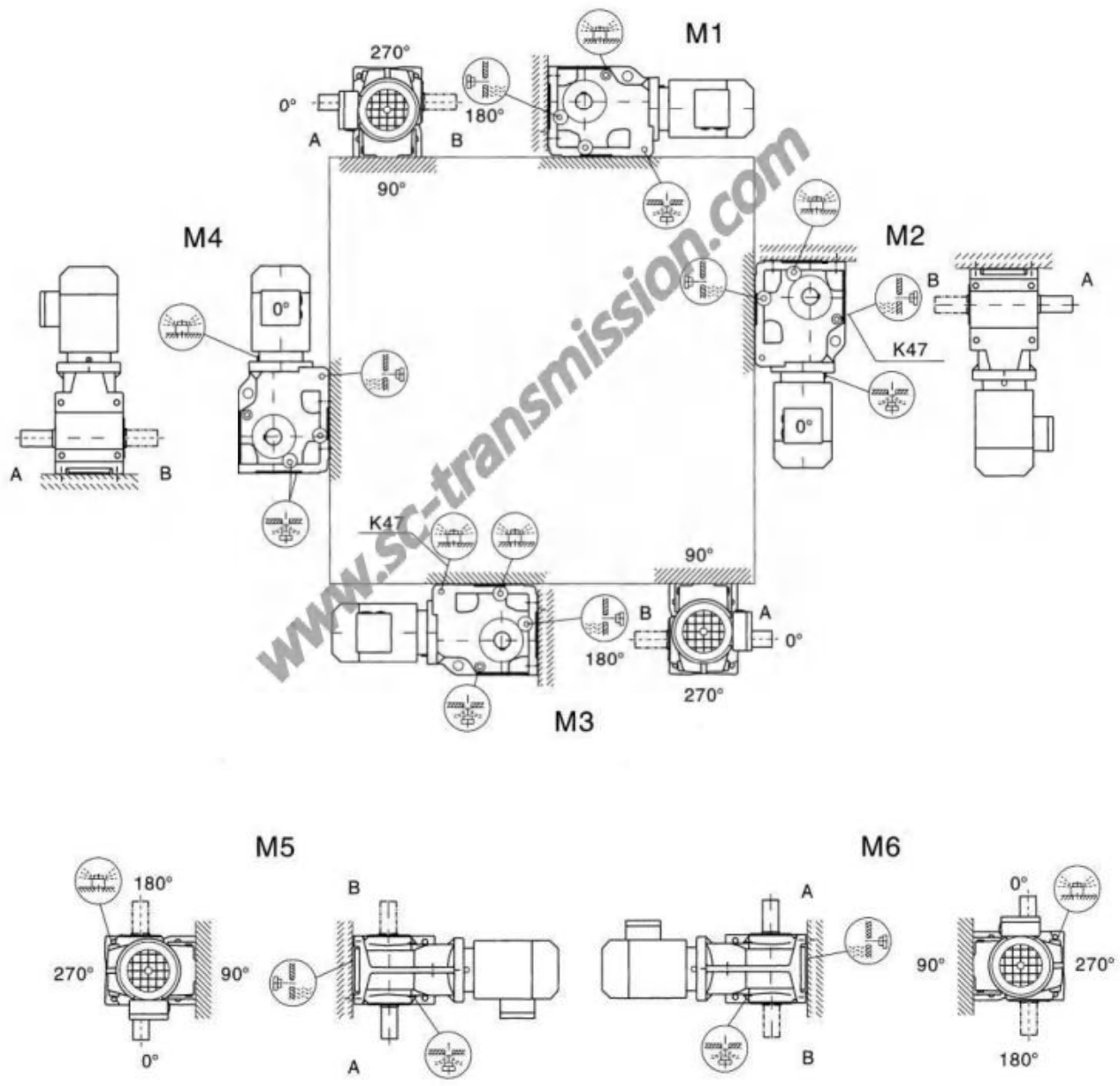
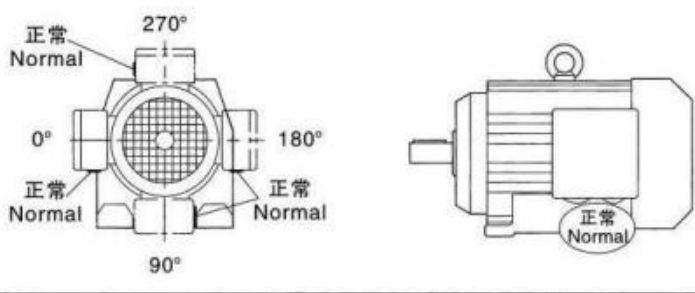
		AC	K	KM
K..127R77	D132M	275	655	408
	D132ML	275	655	408
	D160M	330	746	509
K..127R87	D63..	138	442	210
	D71D	158	460	228
	D80..	168	491	259
	D90..	195	533	301
	D100M	218	550	318
	D100L	218	550	318
	D112M	240	605	373
	D132S	275	640	408
	D132M	275	640	408
	D132ML	275	640	408
	D160M	330	741	509
	D90..	195	577	297
	D100M	218	594	314
K..157R97	D100L	218	594	314
	D112M	240	648	368
K167R97	D132S	275	683	403
	D132M	275	683	403
K187R97	D132ML	275	683	403
	D160M	330	784	504
	D160L	330	828	548
	D180..	380	855	575
	D80..	168	579	254
K..157R107	D90..	195	616	291
	D100M	218	633	308
	D100L	218	633	308
	D112M	240	688	363
K167R107	D132S	275	723	398
	D132M	275	723	398
K187R107	D132ML	275	723	398
	D160M	330	824	499
	D160L	330	868	543
	D180..	380	895	570
	D200..	420	1025	700

注：上表中电机尺寸为参考尺寸，因空间限制对电机尺寸有严格要求时请向我公司咨询。

Notes: The dimension of motor in the above table is only for reference. If you have special require, pls consult us.

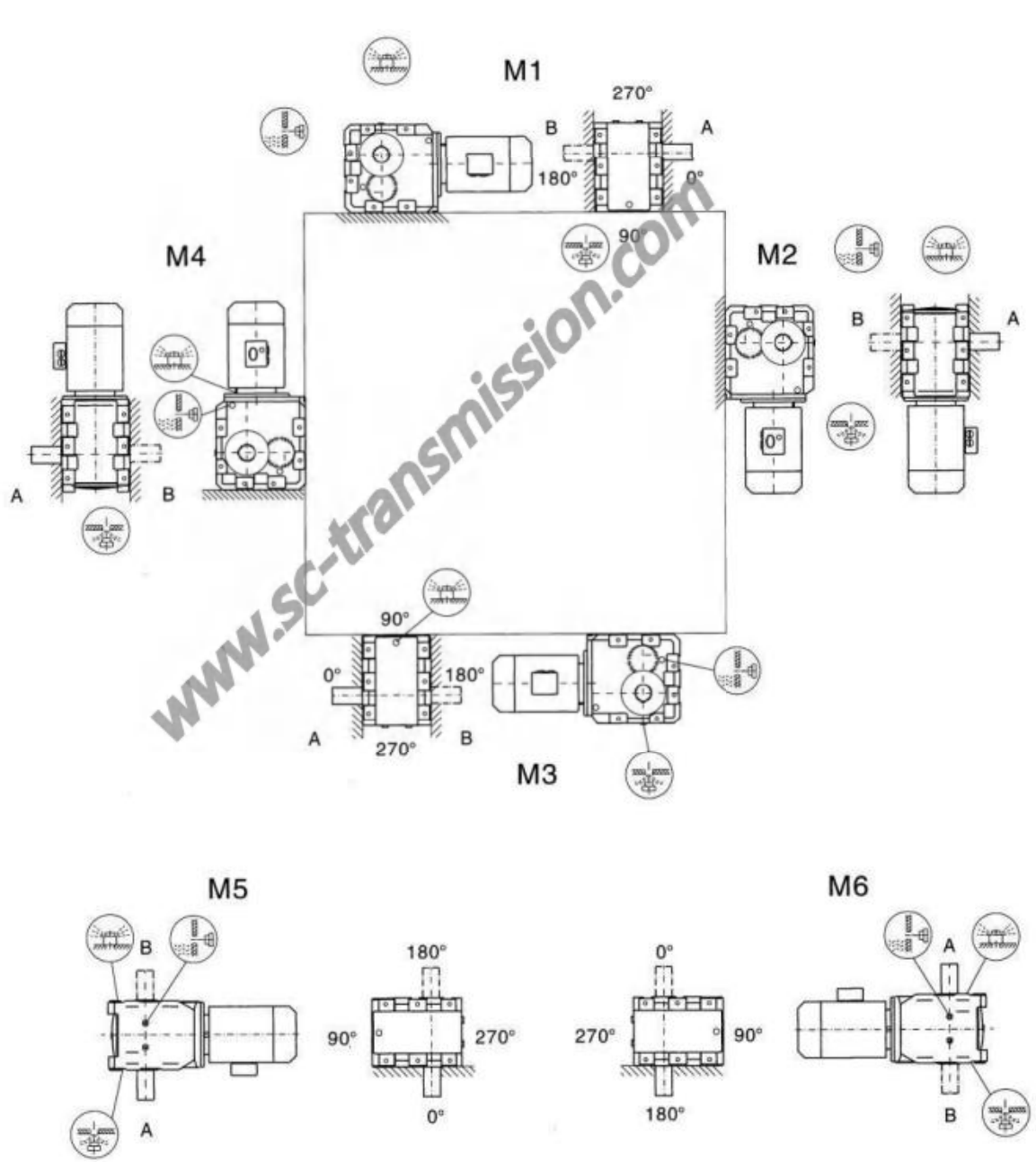
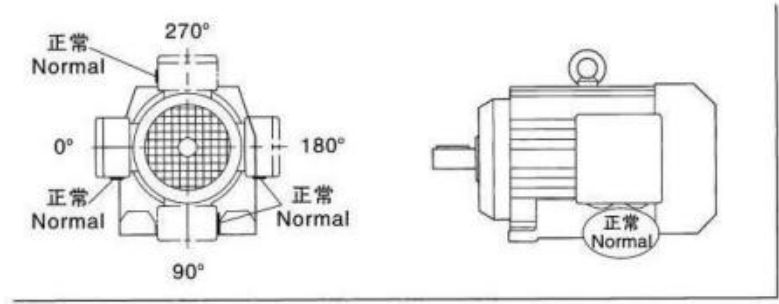
K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors

K/KAB37-157安装形式图 K/KAB37-157 Mounting position example



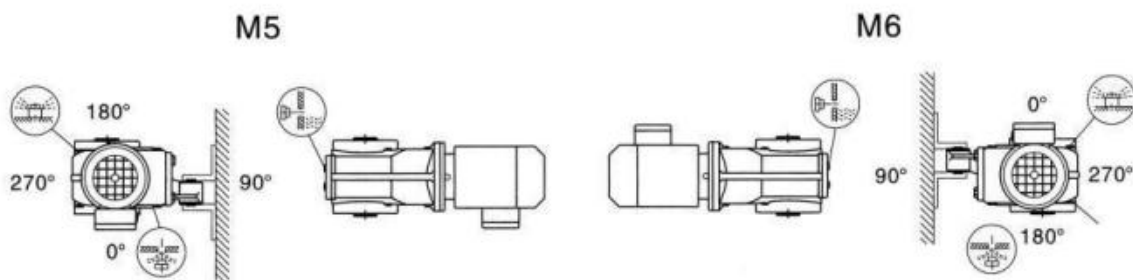
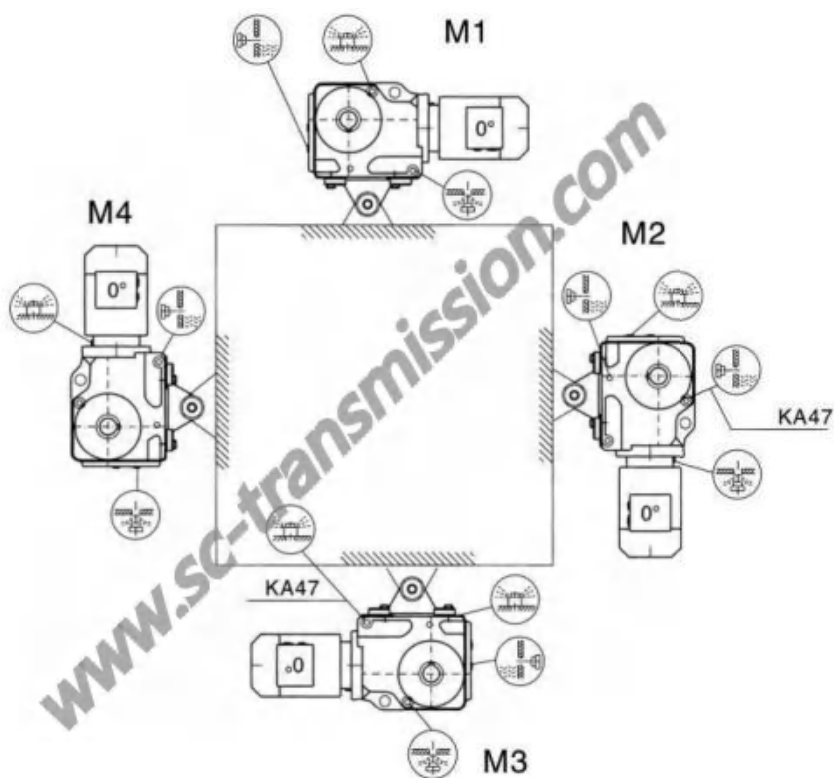
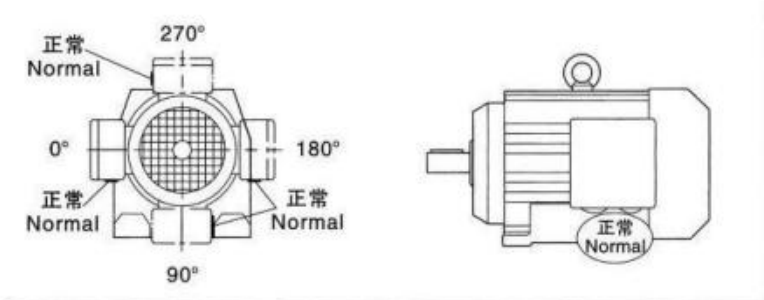
K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors

K/KA167-187安装形式图 K/KA167-187 Mounting position example



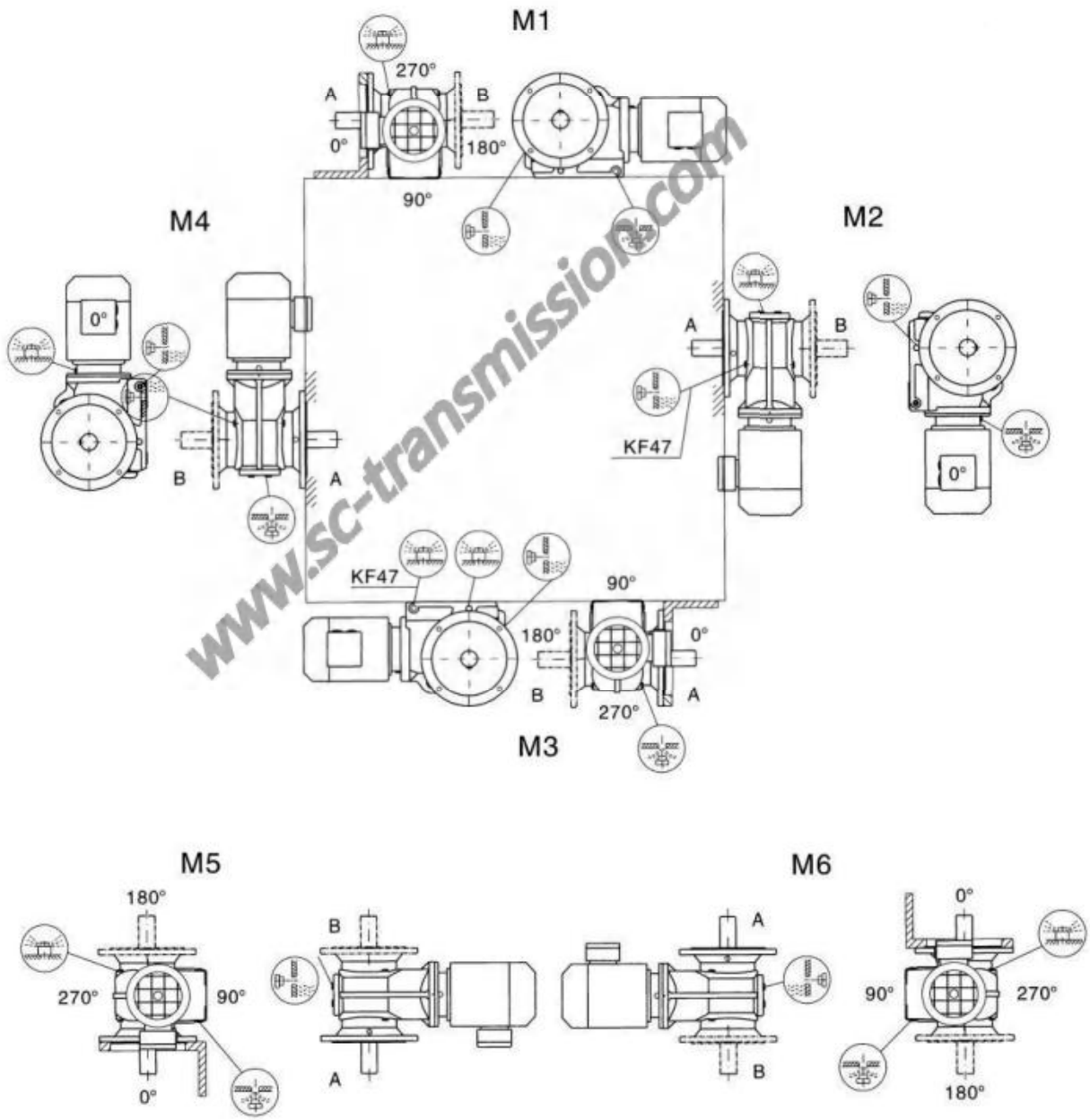
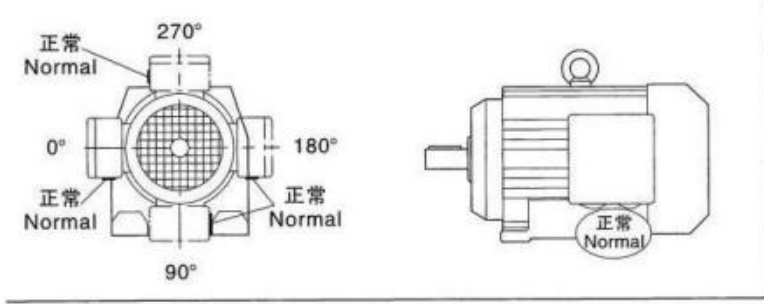
K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors

KAT37-157安装形式图 KAT37-157 Mounting position example



K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors

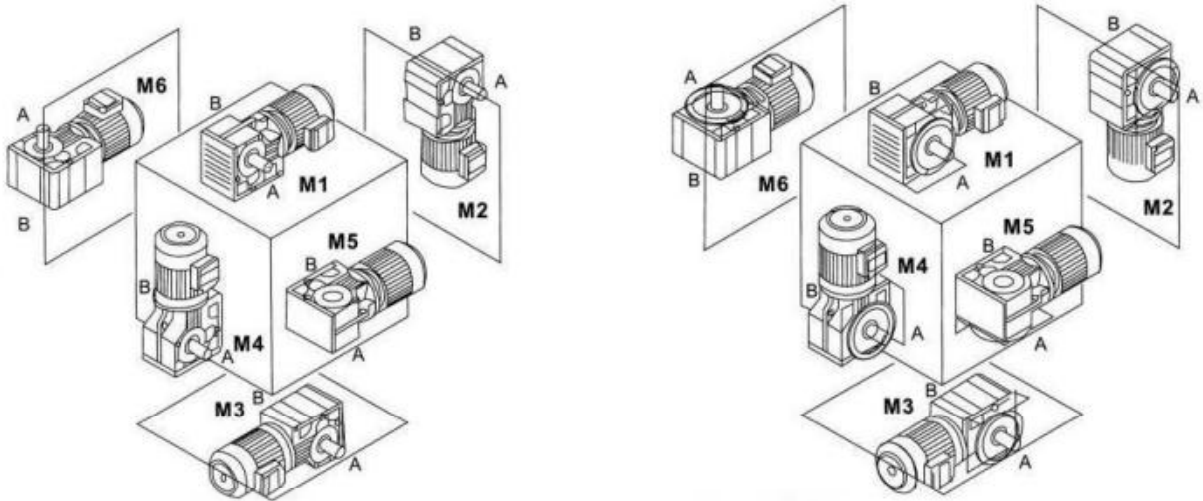
KF/KAF/KAZ37-157安装形式图 KF/KAF/KAZ37-157 Mounting position example



K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors

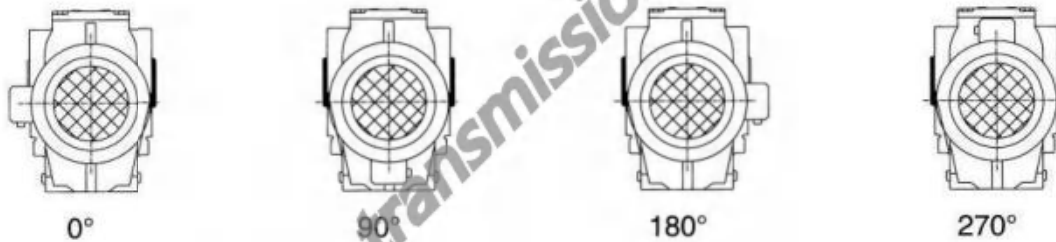
安装形式:

Mounting position:



电机接线盒位置

Position of the motor thermal box



输入功率及许用转矩

Input power rating and permissible torque

规格 Size	37	47	57	67	77	87	97	107	127	157	167	187
结构形式 Structure	K KA KF KAF KAZ KAT KAB											
输入功率 Input power rating (kw)	0.18~3.0	0.18~3.0	0.18~5.5	0.18~5.5	0.37~11	0.75~22	1.1~30	3~45	7.5~90	11~160	11~200	18.5~200
传动比 Ratio	5.36~106.38	5.81~131.87	6.57~145.14	7.14~144.79	7.24~192.18	7.19~197.37	8.95~176.05	8.74~141.46	8.68~146.07	12.65~150.41	17.28~163.91	17.27~180.78
许用转矩 Permissible torque (N.M)	200	400	600	820	1550	2700	4300	8000	13000	18000	32000	50000

减速机重量

Gear unit weight

规格 Size	37	47	57	67	77	87	97	107	127	157	167	187
重量(kg) Weight	11	20	27	33	57	85	130	250	380	610	1015	1700

所注重量为平均值, 仅供参考

The weights are mean values, only for reference.

K系列斜齿轮-伞齿轮减速机/K helical-bevel geared motors

润滑油量表
Lubrication table

K...,KAB...:

规格 Size	润滑油量 (升)			Fill quantity in liters		
	M1	M2	M3	M4	M5	M6
K..37	0.5	1	1	1.3	1	1
K..47	0.8	1.3	1.5	2	1.6	1.6
K..57	1.2	2.3	2.5	3	2.6	2.4
K..67	1.1	2.4	2.6	3.4	2.6	2.6
K..77	2.2	4.1	4.4	5.9	4.2	4.4
K..87	3.7	8	8.7	10.9	7.8	8
K..97	7	14	15.7	20	15.7	15.5
K..107	10	21	25.5	33.5	24	24
K..127	21	41.5	44	54	40	41
K..157	31	62	65	90	58	62
K..167	35	100	100	125	85	85
K..187	60	170	170	205	130	130

KF...:

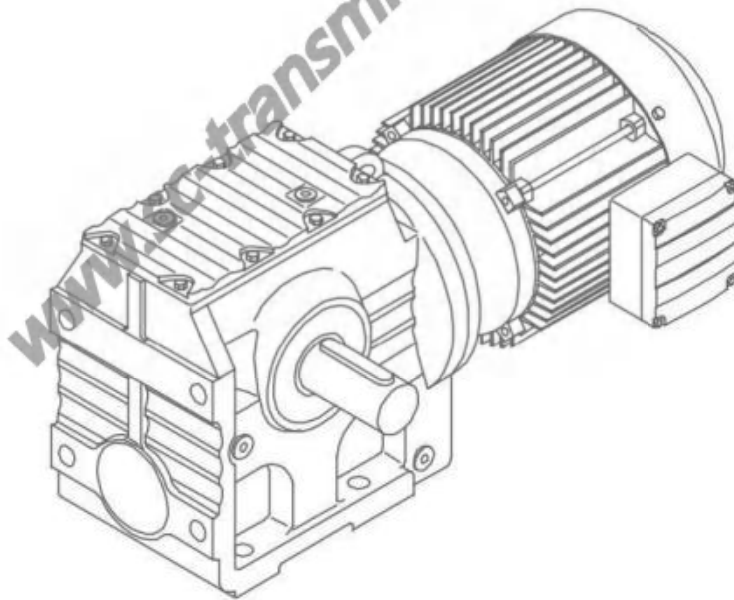
规格 Size	润滑油量 (升)			Fill quantity in liters		
	M1	M2	M3	M4	M5	M6
KF37	0.5	1.1	1.1	1.5	1	1
KF47	0.8	1.3	1.7	2.2	1.6	1.6
KF57	1.3	2.3	2.7	3	2.9	2.7
KF67	1.1	2.4	2.8	3.6	2.7	2.7
KF77	2.1	4.1	4.4	6	4.5	4.5
KF87	3.7	8.2	9	11.9	8.4	8.4
KF97	7	14.7	17.3	21.5	15.7	16.5
KF107	10	22	26	35	25	25
KF127	21	41.5	46	55	41	41
KF157	31	66	69	92	62	62

KA... KAF... KAZ...:

规格 Size	润滑油量 (升)			Fill quantity in liters		
	M1	M2	M3	M4	M5	M6
K..37	0.5	1	1	1.4	1	1
K..47	0.8	1.3	1.6	2.1	1.6	1.6
K..57	1.3	2.3	2.7	3	2.9	2.7
K..67	1.1	2.4	2.7	3.6	2.6	2.6
K..77	2.1	4.1	4.6	6	4.4	4.4
K..87	3.7	8.2	8.8	11.1	8	8
K..97	7	14.7	15.7	20	15.7	15.7
K..107	10	20.5	24	32	24	24
K..127	21	41.5	43	52	40	40
K..157	31	66	67	87	62	62
K..167	35	100	100	125	85	85
K..187	60	170	170	205	130	130

S系列斜齿轮-蜗轮蜗杆减速机

S helical-worm gear motor



S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors

型号说明 Model Notes

减速电机符号说明

S	A	67	T	D	80	N	4	/	BMG	/	HF	/	TF	/	106.75	/	d45	/	B	/	M1	/	180°	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16									
1 产品代码 R-斜齿轮减速机 F-平行轴-斜齿轮减速机 K-斜齿轮-伞齿轮减速机 S-斜齿轮-蜗轮蜗杆减速机	2 装配型式 无代码--底脚安装 F--法兰安装 A--空心轴安装 AF--法兰空心轴安装	3 减速机规格号 67--减速机规格号为67	4 扭矩臂 无代码--无扭矩臂 T--扭矩臂	5 电动机 D--三相异步电动机(IP54) YB--隔爆型三相异步电动机 YGP--铝壳变频调速三相异步电动机 YZP--冶金、起重用变频调速三相异步电动机 YVP--变频调速三相异步电动机 YD--变频调速三相异步电动机	6 电动机规格代号 80--电机中心高为80mm	7 电动机定子铁心长度代号 D、K、N、S、M、ML、L	8 电动机极数 4--电动机极数为4	9 制动器 无代码--无制动器 BMG--制动器	10 手动释放装置 无代码--无手动释放装置 HF--手动释放锁在制动释放位置 HR--手动释放自动返回制动位置	11 电机热保护 无代码--无电机热保护 TF--热敏电阻保护装置 PTC热敏电阻 TH--恒温器保护装置 双金属片开关	12 减速机传动比 106.75--减速机传动比为106.75	13 空心轴孔径 d45--空心轴孔径为45H7(尺寸表中两种孔径选择一种)	14 轴指向 A--轴指向为A B--轴指向为B AB--双输出轴	15 安装位置 M1--安装型式图中M1位置	16 接线盒位置 无代码--安装型式图中0°位置 180°--安装型式图中180°位置									

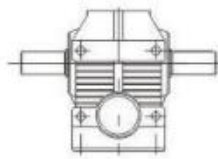
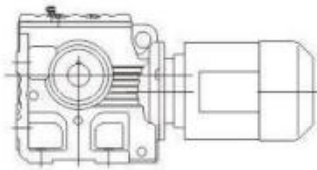
Code Introduction

1 Product Code R--Helical Geared Motor F--Parallel Shaft-Helical Geared Motor K--Helical-Bevel Geared Motor S--Helical-Worm Geared Motor	2 Unit Model No Code--Feet-mounted F--Flange-mounted A--Hollow Shaft-mounted AF--Flange-mounted with Hollow Shaft	3 Gear Unit Size 67--Gear Unit Size 67	4 Torque Arm No Code--No Torque Arm T--Torque Arm	5 Electric Motor D--Three Phase Asynchronous Motor(IP 54) YB--Flame-proof Three Phase Asynchronous Motor YGP--Table Roller Three Phase Asynchronous Motor YZP--Metallurgy Hoist Frequency Variable Motor YVP--Frequency Variable Three Phase Motor YD--Multi Speed Three Phase Motor	6 Frame Size 80--Motor Center Height 80mm	7 Stator Length D、K、N、S、M、ML、L	8 Number of Poles 4--4P	9 Brake No Code--No Brakes BMG--Brakes	10 Brake Release No Code--No Brake Release HF--Manual release(lock in the brake release position) Brake Release HR--Manual release(automatic braking position)	11 Thermal Protection No Code--No Thermistor TF--Thermistor Sensor TF--Thermistor protection (PTC thermistor) TH--Thermostat protection (Bimetal switch)	12 Ratio 108.03--Ratio 108.03	13 Hollow shaft diameter d45--Hollow shaft diameter is 45	14 Position of the Output Shaft A--Shaft with A B--Shaft with B AB--Shaft with A+B	15 Mounting Position M1--Mounting Position M1	16 Terminal Box Position No Code--Terminal Box Position is 0° 180°--Terminal Box Position is 180°
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S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors

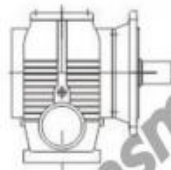
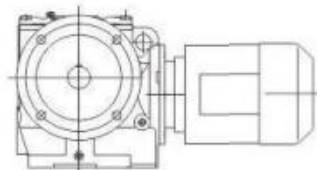
设计方案 Type of Geared Motors

斜齿轮 - 蜗轮蜗杆齿轮减速电机有以下设计方案:
The following types of helical-worm gearmotors can be supplied.



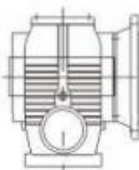
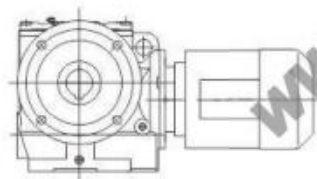
S..D..

底脚安装斜齿轮 - 蜗轮蜗杆齿轮减速电机
Foot-mounted helical-worm gearmotor



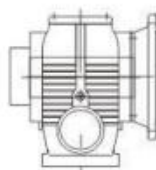
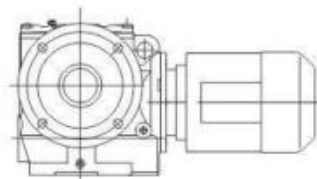
SF..D..

法兰盘安装斜齿轮 - 蜗轮蜗杆齿轮减速电机
Helical-worm gearmotor in B5 flange-mounted version.



SAF..D..

B5 法兰空心轴安装斜齿轮 - 蜗轮蜗杆齿轮减速电机
Helical-worm gearmotor in B5 flange-mounted version
with hollow shaft.

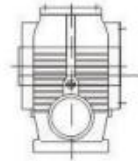
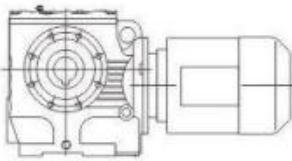


SHF..D..

B5 法兰空心轴锁紧盘安装斜齿轮 - 蜗轮蜗杆齿轮减
速电机
Helical-worm gearmotor in B5 flange-mounted version
with hollow shaft and shrink disk.

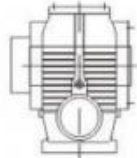
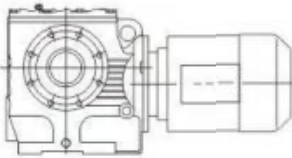


S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors



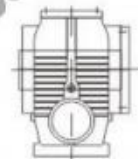
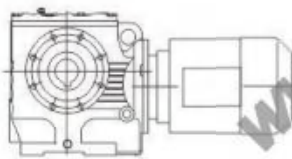
SA..D..

空心轴安装斜齿轮 - 蜗轮蜗杆齿轮减速电机
Helical-worm gearmotor with hollow shaft.



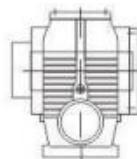
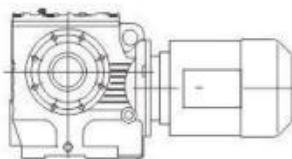
SH..D..

空心轴锁紧盘安装斜齿轮 - 蜗轮蜗杆齿轮减速电机
Helical-worm gearmotor with hollow shaft and shrink disk.



SAZ..D..

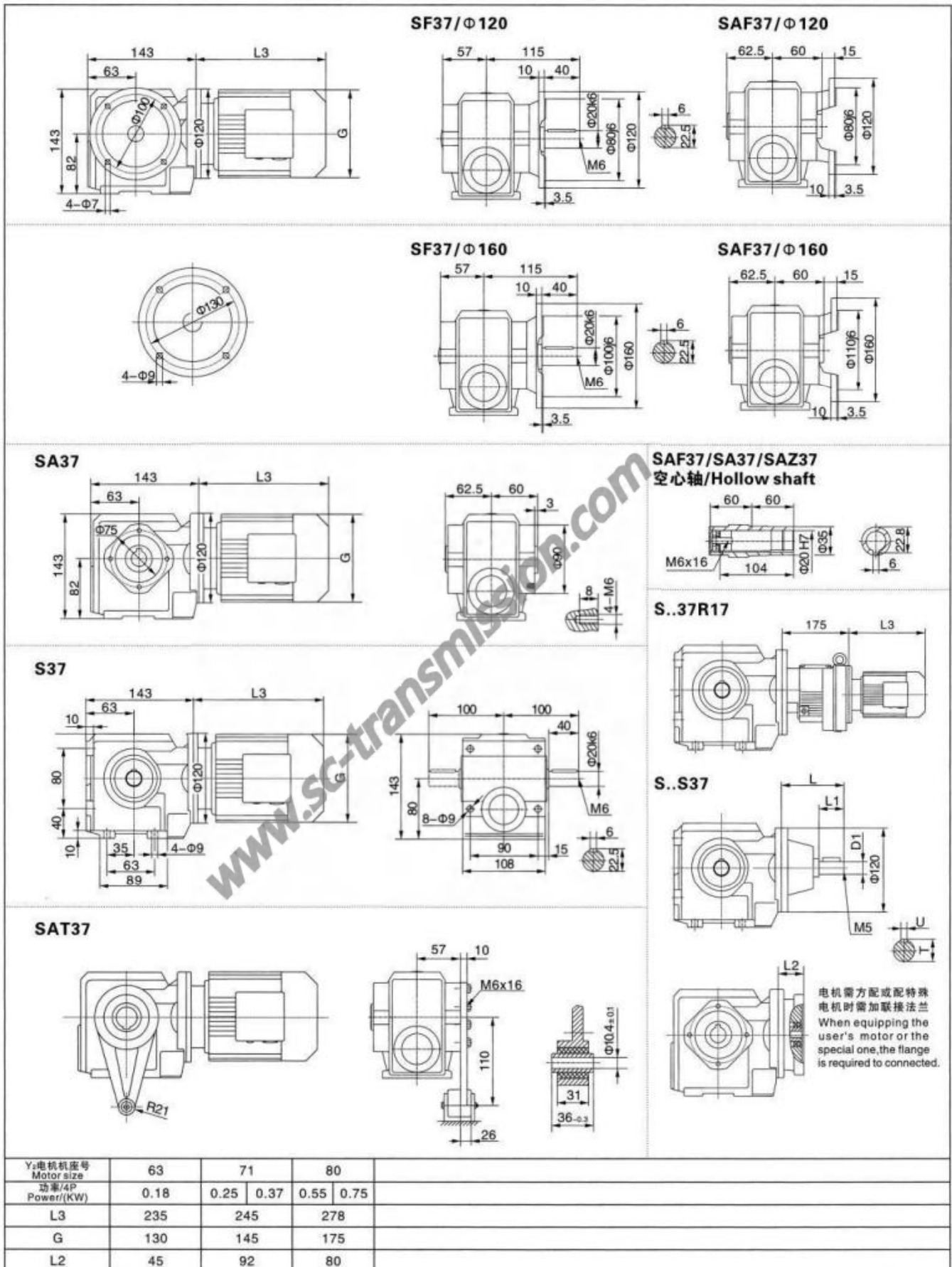
B14 法兰空心轴安装斜齿轮 - 蜗轮蜗杆齿轮减速电机
Helical-worm gearmotor in B14 flange-mounted version
with hollow shaft.



SHZ..D..

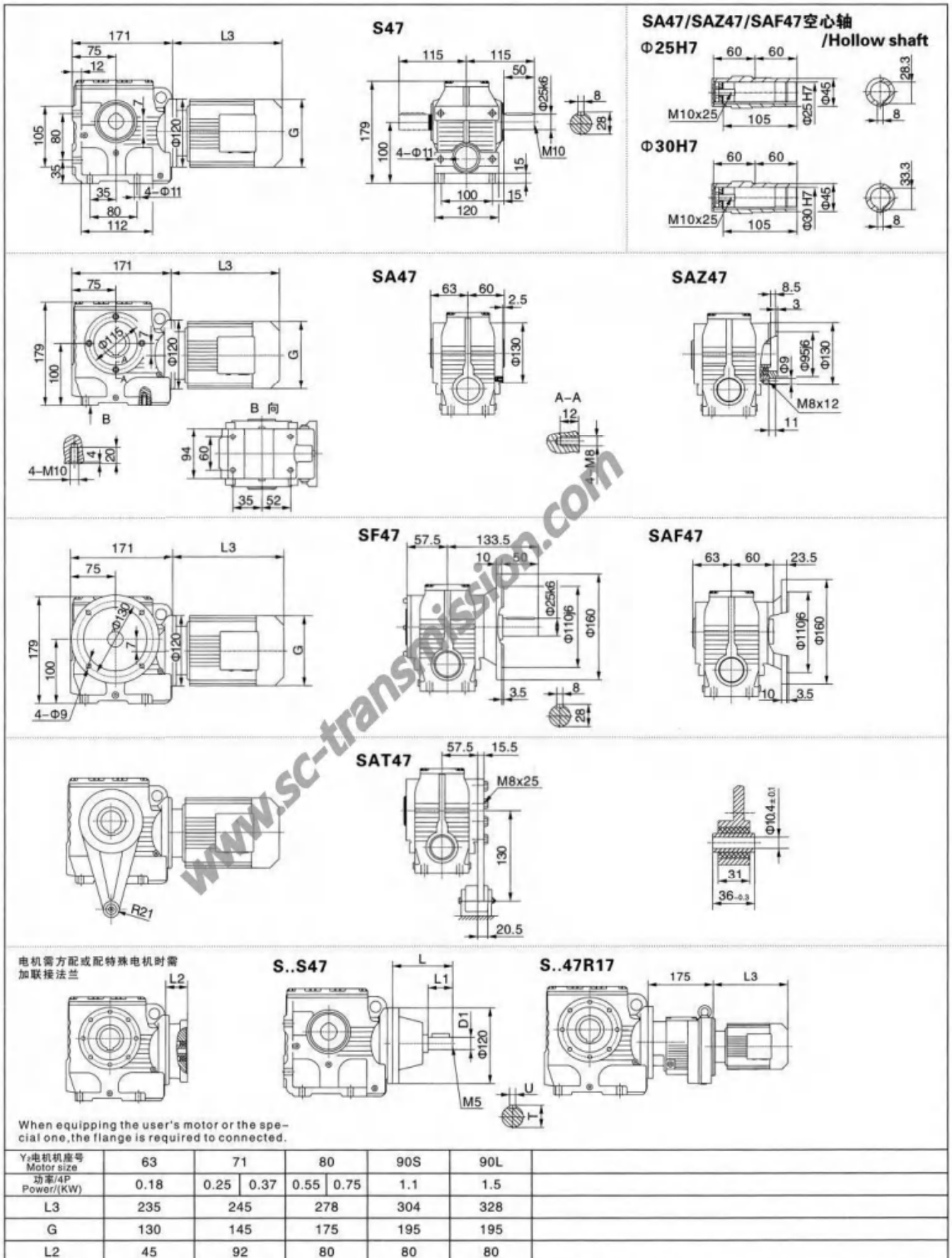
B14 法兰空心轴锁紧盘安装斜齿轮 - 蜗轮蜗杆齿轮减
速电机
Helical-worm gearmotor in B14 flange-mounted version
with hollow shaft and shrink disk.

S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors



注：1.SA、SF、SAF、SAZ壳体为通用件，安装尺寸均可相互参照。 2.“S..”表示S、SA、SF、SAF、SAZ。
Note: 1.The housings of SA, SF, SAF, SAZ are common parts. The mounting dimensions may consult each other. 2.“S..”mean S, SA, SF, SAF, SAZ.

S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors



注: 1.SA、SF、SAF、SAZ壳体为通用件, 安装尺寸均可相互参照。 2.*S..*表示S、SA、SF、SAF、SAZ。
 Note: 1.The housings of SA、SF、SAF、SAZ are common parts. The mounting dimensions may consult each other. 2.*S..*mean S、SA、SF、SAF、SAZ.

S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors

S57

Dimensions: 187, 80, 12, 130, 100, 35, 45, 100, 130, L3, G, 134, 134, 60, 189, 112, 4-φ11, φ30k6, 8, 33, M10, 15, 110, 19, 136.

SA57/SAZ57/SAF57空心轴 /Hollow shaft

φ30H7

Dimensions: 75, 75, 132, φ30H7, φ50, 8, 33.3, M10x25.

φ35H7

Dimensions: 75, 75, 132, φ35H7, φ50, 8, 38.3, M12x30.

SA57

Dimensions: 187, 80, 189, 112, L3, G, B, 4-M10, 4, 20, 100, 60, 58.5, 58.5, 78, 75, 3, φ102, 8-45°, φ120, A-A, 12, 8-M8.

SAZ57

Dimensions: 8, 3, 11, φ102, 8-45°, φ120, φ9, φ80k6, M8x12.

SF57

Dimensions: 187, 80, 189, 112, L3, G, 4-φ11, 72, 160, 12, 60, φ30k6, φ130k6, φ200, 3.5, 8, 33.

SAF57

Dimensions: 78, 75, 25, φ130k6, φ200, 12, 3.5.

SAT57

Dimensions: 72, 15.5, M8x25, 160, 17.5, φ10.4±0.01, 31, 36-0.3.

电机需方配或配特殊电机时需加联接法兰

S..S57

Dimensions: L, L1, D1, φ120, M5, U, T.

S..57R17

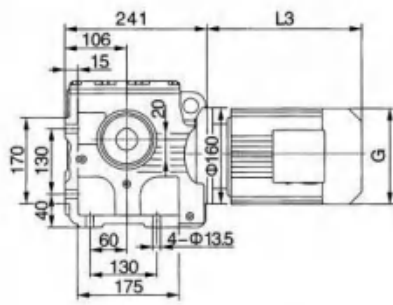
Dimensions: 175, L3.

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

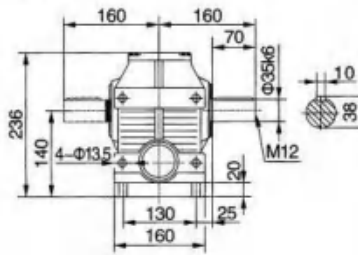
Y:电机机座号 Motor size	63	71	80	90S	90L	100	
功率/4P Power/(KW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3.0	
L3	235	245	278	304	328	340	
G	130	145	175	195	195	215	
L2	45	92	80	80	80	80	

注: 1.SA、SF、SAF、SAZ壳体为通用件, 安装尺寸均可相互参照。 2.'S..'表示S、SA、SF、SAF、SAZ。
 Note: 1.The housings of SA、SF、SAF、SAZ are common parts. The mounting dimensions may consult each other. 2.'S..'mean S、SA、SF、SAF、SAZ.

S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors

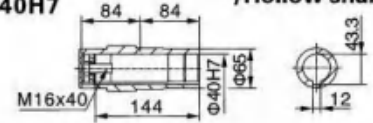


S67

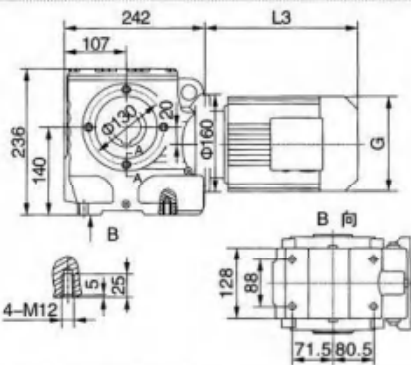
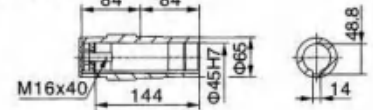


SA67/SAZ67/SAF67空心轴

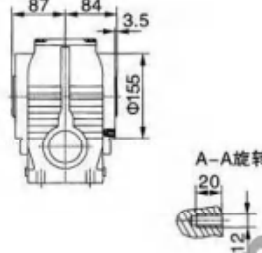
Φ40H7 /Hollow shaft



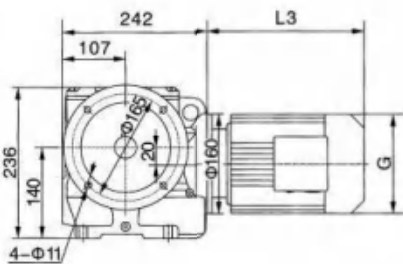
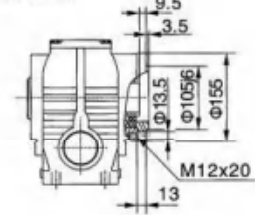
Φ45H7



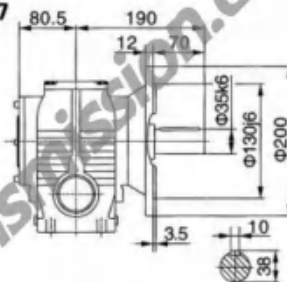
SA67



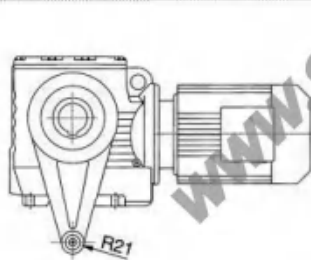
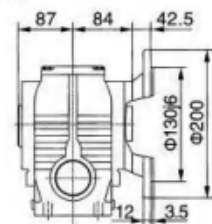
SAZ67



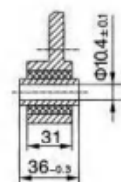
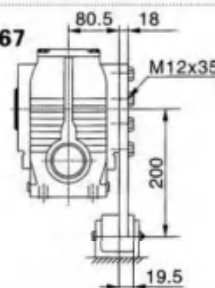
SF67



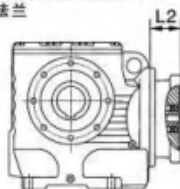
SAF67



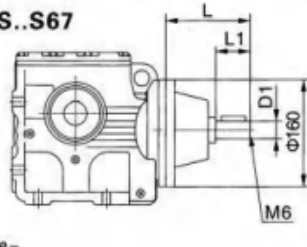
SAT67



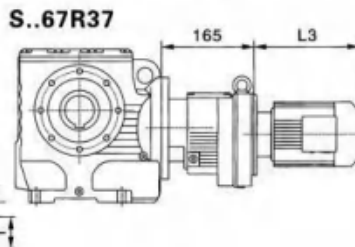
电机需方配或配特殊电机时需加联接法兰



S..S67



S..67R37



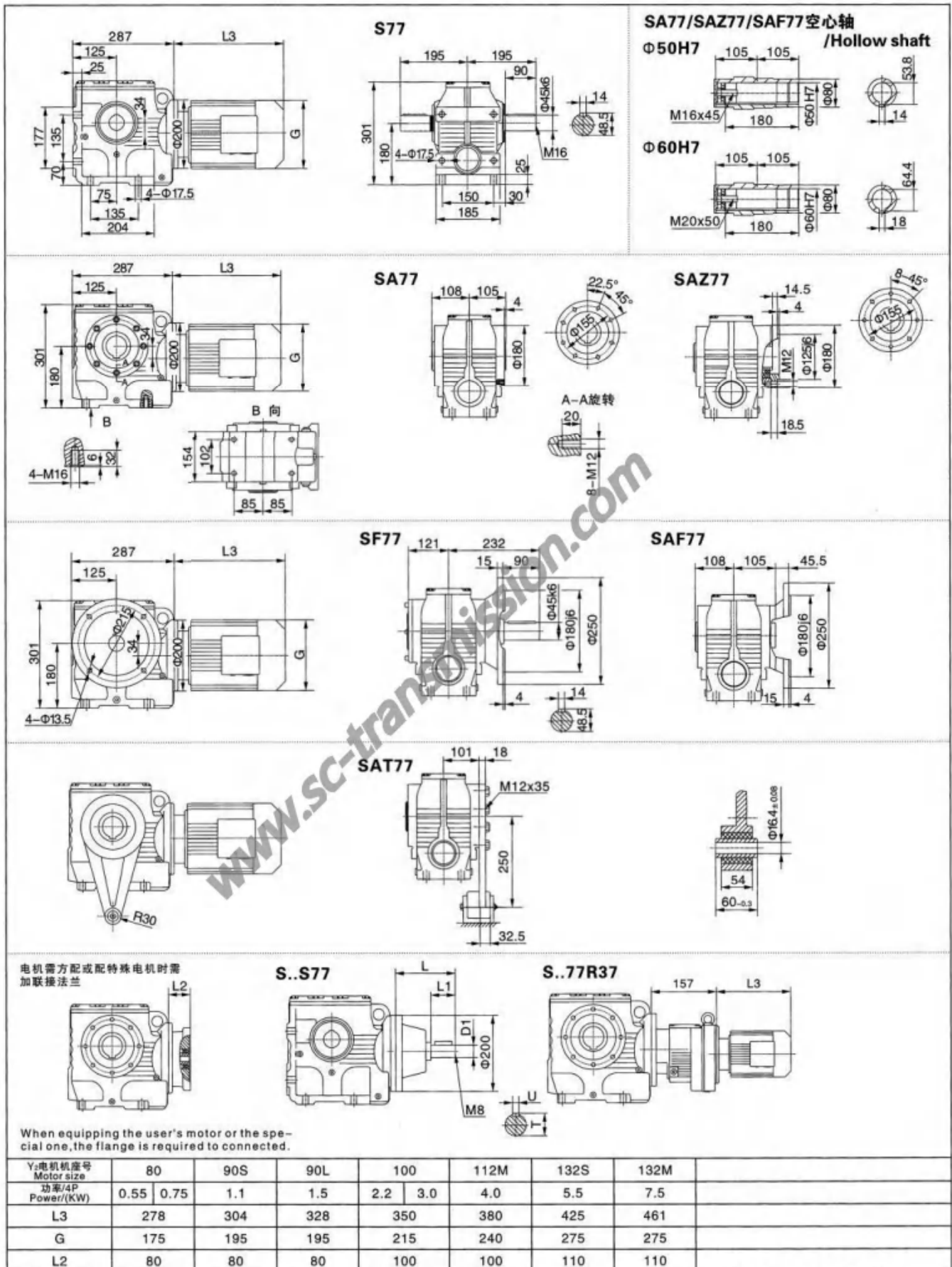
When equipping the user's motor or the special one, the flange is required to connected.

Y ₂ 电机机座号 Motor size	71	80	90S	90L	100	112M	132S	
功率/4P Power/(KW)	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3.0	4.0	5.5	
L3	245	278	304	328	350	380	425	
G	145	175	195	195	215	240	275	
L2	55	80	80	80	100	100	110	

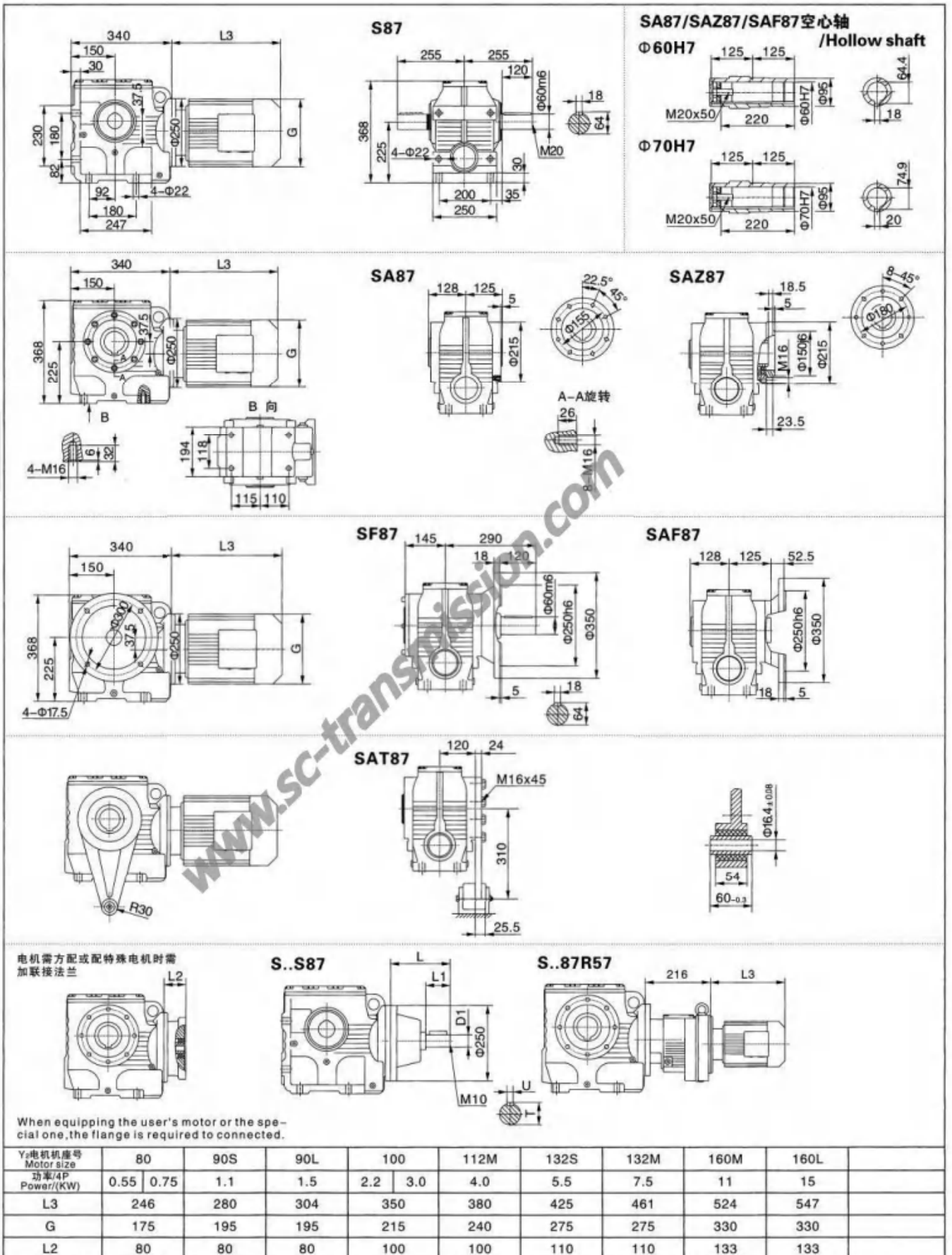
注: 1.SA、SF、SAF、SAZ壳体为通用件, 安装尺寸均可相互参照。 2.*S..*表示S、SA、SF、SAF、SAZ。

Note: 1.The housings of SA、SF、SAF、SAZ are common parts. The mounting dimensions may consult each other. 2.*S..*mean S、SA、SF、SAF、SAZ.

S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors

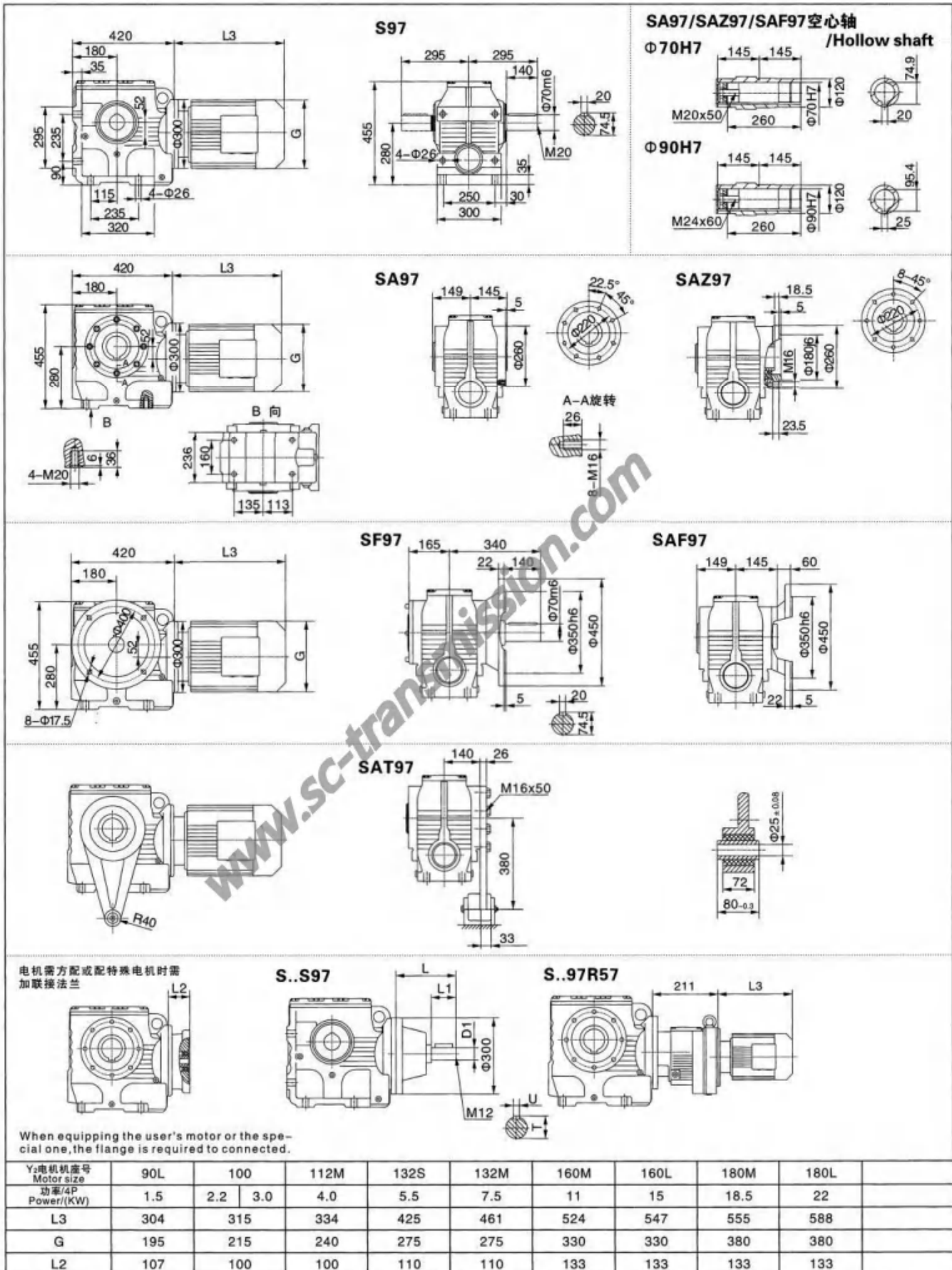


S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors



注: 1.SA、SF、SAF、SAZ壳体为通用件, 安装尺寸均可相互参照。 2.*S..*表示S、SA、SF、SAF、SAZ。
 Note: 1.The housings of SA、SF、SAF、SAZ are common parts. The mounting dimensions may consult each other. 2.*S..*mean S、SA、SF、SAF、SAZ.

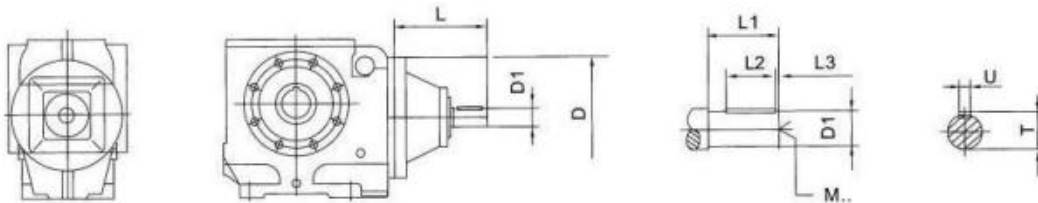
S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors



注：1.SA、SF、SAF、SAZ壳体为通用件，安装尺寸均可相互参照。 2.'S..'表示S、SA、SF、SAF、SAZ。
 Note: 1.The housings of SA, SF, SAF, SAZ are common parts. The mounting dimensions may consult each other. 2.'S..'mean S, SA, SF, SAF, SAZ.

S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors

S..~AD..



		D	L	D1	L1	L3	L2	T	U	M
S..37 S..47 S..57	AD1	120	102	16	40	4	32	18	5	M5
	AD2		130	19	40	4	32	21.5	6	M6
S..67	AD2	160	123	19	40	4	32	21.5	6	M6
	AD3		159	24	50	5	40	27	8	M8
S..77	AD2	200	116	19	40	4	32	21.5	6	M6
	AD3		151	24	50	5	40	27	8	M8
	AD4		224	38	80	5	70	41	10	M12
S..87	AD2	250	111	19	40	4	32	21.5	6	M6
	AD3		156	28	60	5	50	31	8	M10
	AD4		219	38	80	5	70	41	10	M12
	AD5		292	42	110	10	70	45	12	M16
S..97	AD3	300	151	28	60	5	50	31	8	M10
	AD4		214	38	80	5	70	41	10	M12
	AD5		287	42	110	10	70	45	12	M16
	AD6		327	48	110	10	80	51.5	14	M16

S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors

S..AM..

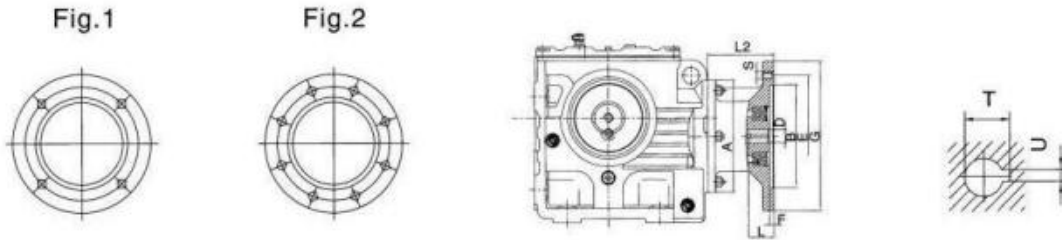


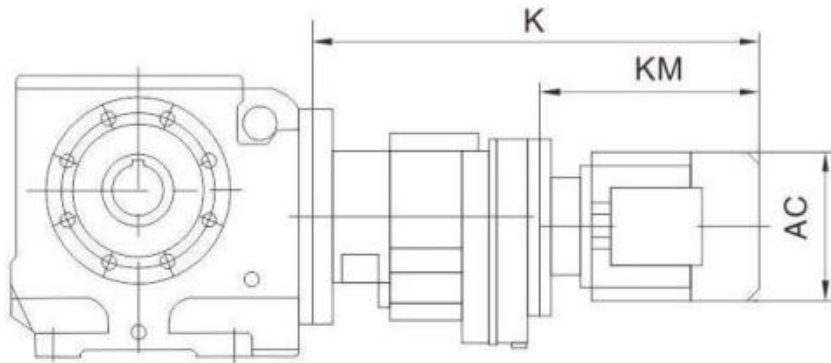
		Fig1	B	E	F	A	G	S	L2	D	L	T	U
S..37 S..47 S..57	Am63	1	95	115	3.5	120	140	M8	45	11	23	12.8	4
	AM71 ¹⁾		110	130			160		92	14	30	16.3	5
	Am80 ¹⁾		130	165	4.5		200	M10	80	19	40	21.8	6
	Am90 ¹⁾									24	50	27.3	8
S..67	Am63	1	95	115	3.5	160	140	M8	45	11	23	12.8	4
	Am71		110	130			160		55	14	30	16.3	5
	Am80		130	165	4.5		200	M10	80	19	40	21.8	6
	Am90									24	50	27.3	8
	Am100 ¹⁾		180	215	5		250	M12	100	28	60	31.3	8
	Am112 ¹⁾												
S..77	Am63	1	95	115	3.5	200	140	M8	45	11	23	12.8	4
	Am71		110	130			160		55	14	30	16.3	5
	Am80		130	165	4.5		200	M10	80	19	40	21.8	6
	Am90									24	50	27.3	8
	Am100 ¹⁾		180	215	5		250	M12	100	28	60	31.3	8
	Am112 ¹⁾												
	AM132S ¹⁾		230	265	5		300	M12	110	38	80	41.3	10
	AM132M ¹⁾												
AM132ML ¹⁾													
S..87	Am80	1	130	165	4.5	250	200	M10	80	19	40	21.8	6
	Am90						24			50	27.3	8	
	Am100		180	215	5		250	M12	100	28	60	31.3	8
	Am112												
	Am132MS		230	265	5		300	M12	110	38	80	41.3	10
	AM132M												
	AM132ML												
Am160 ¹⁾	250	300	6	350	M16	133	42	110	45.3	12			
Am180 ¹⁾							48		51.8	14			
S..97	Am100	1	180	215	5	300	250	M12	100	28	60	31.3	8
	Am112												
	AM132S		230	265	5		300	M12	110	38	80	41.3	10
	AM132M												
	AM132ML												
	Am160		250	300	6		350	M16	133	42	110	45.3	12
	Am180									48		51.8	14
	Am200 ¹⁾		300	350	7		400	M16	135	55	59.3	16	
Am225 ¹⁾	2	350	400	450		143	60			140	64.4	18	

1) 如果安装在BS系列脚安装方式的减速机伞, 请检查尺寸G/2, 它可能已突出安装平面

Dimension G/2 May protrude past tooth mounting surface if mounted on BS foot-mounted gear unit, please check.

S系列斜齿轮-蜗轮蜗杆减速机/S helical- worm geared motors

S..R..



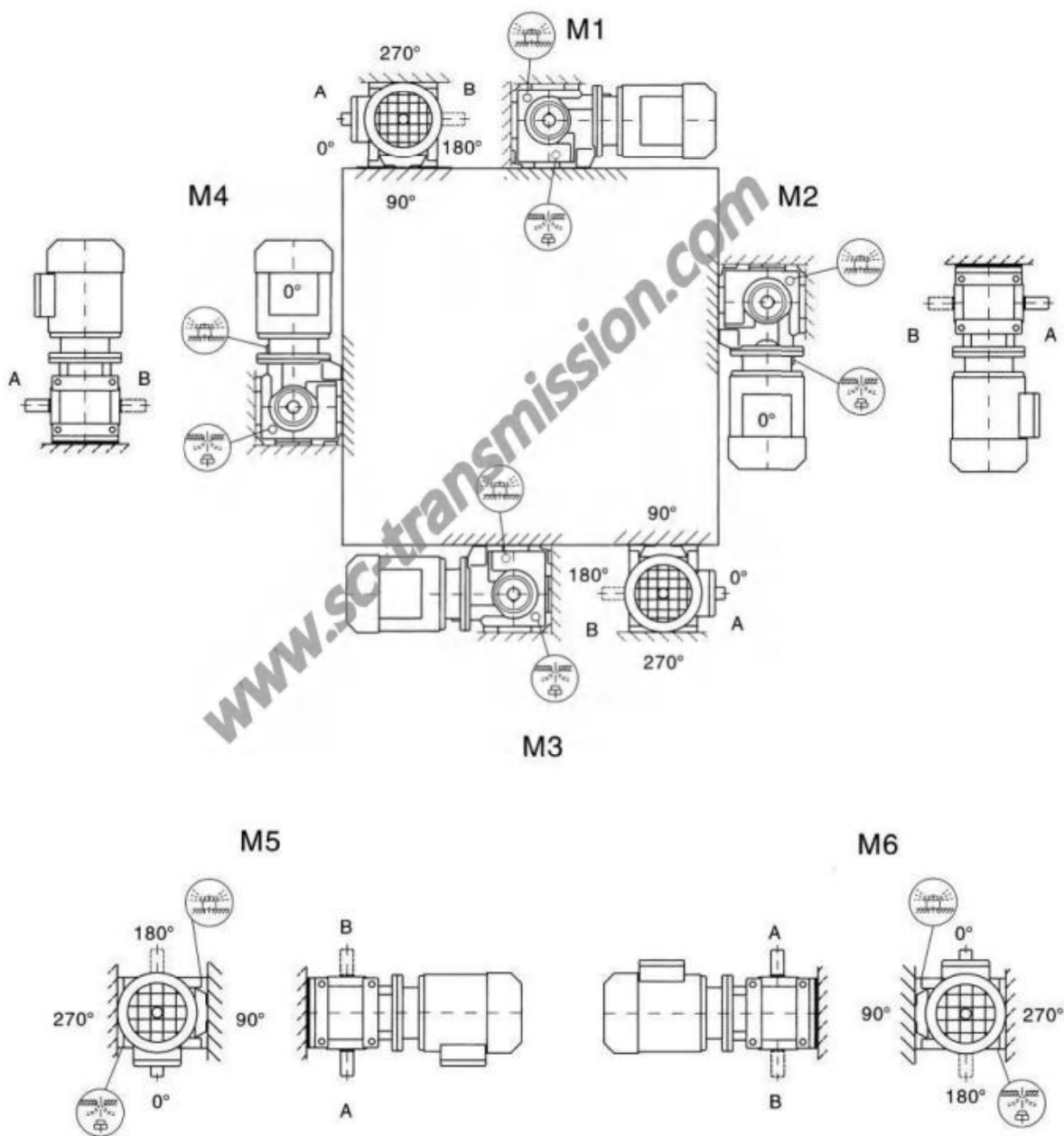
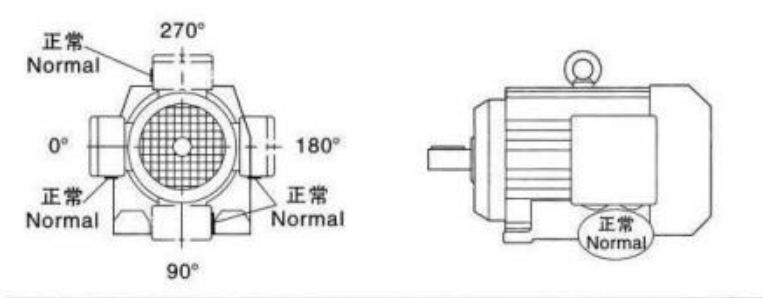
		AC	K	KM
S..37R17	D63..	138	368	193
	D71D	158	369	194
	D80..	168	419	244
S..47R17 S..57R17	D63..	138	368	193
	D71D	158	369	194
	D80..	168	419	244
S..67R37	D63..	138	386	221
	D71D	158	404	239
	D80..	168	436	271
S..77R37	D90..	195	479	314
	D63..	138	378	221
	D71D	158	396	239
S..87R57	D80..	168	428	271
	D90..	195	411	314
	D63..	138	432	216
S..97R57	D71D	158	450	234
	D80..	168	481	265
	D90..	195	525	309
	D100M	218	542	326
	D100L	218	542	326
	D63..	138	427	216
	D71D	158	445	234
S..97R57	D80..	168	476	265
	D90..	195	520	309
	D100M	218	537	326
	D100L	218	537	326
	D112M	240	593	382

注：上表中电机尺寸为参考尺寸，因空间限制对电机尺寸有严格要求时请向我公司咨询。

Notes: The dimension of motor in the above table is only for reference. If you have special require, please consult us.

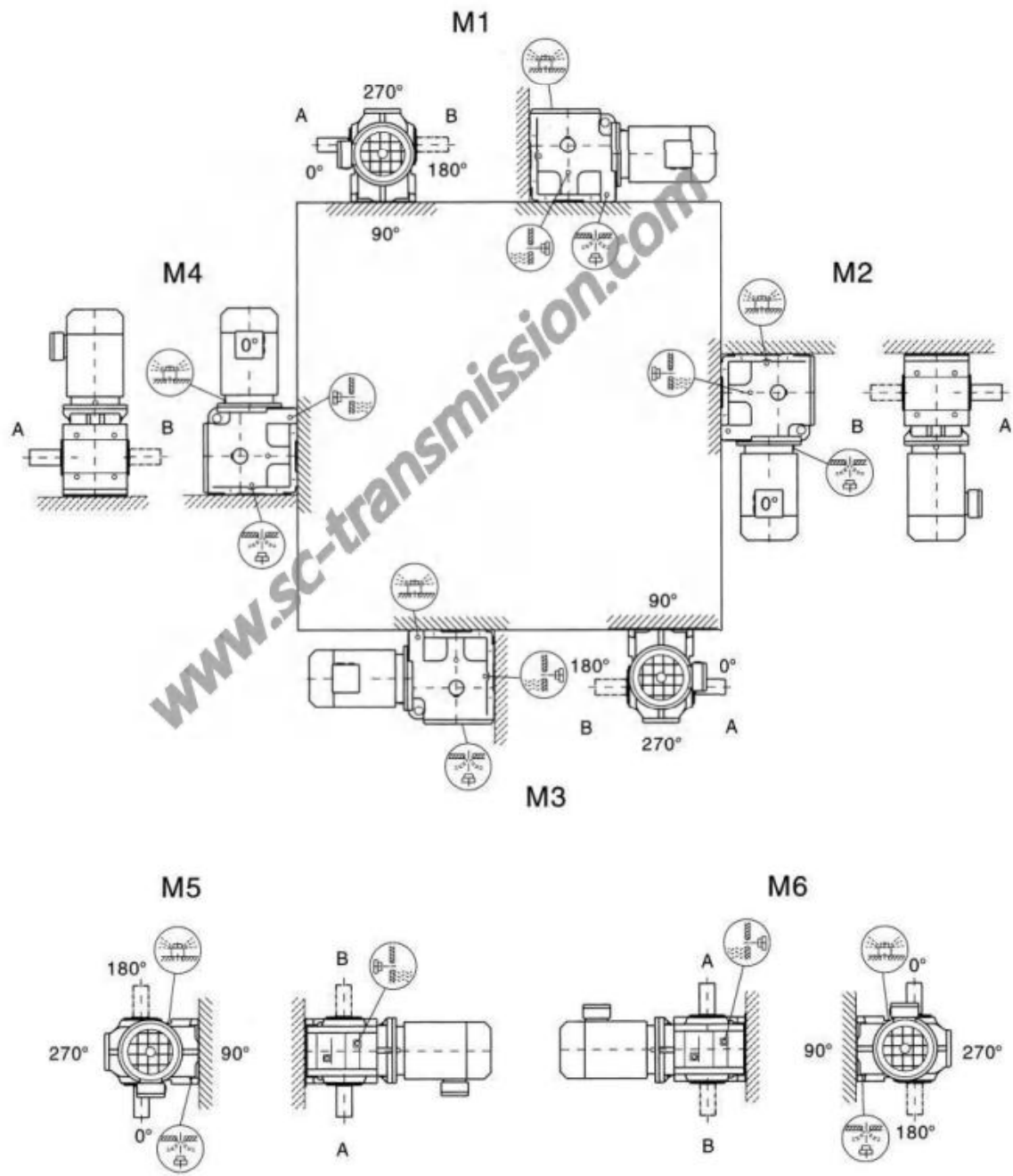
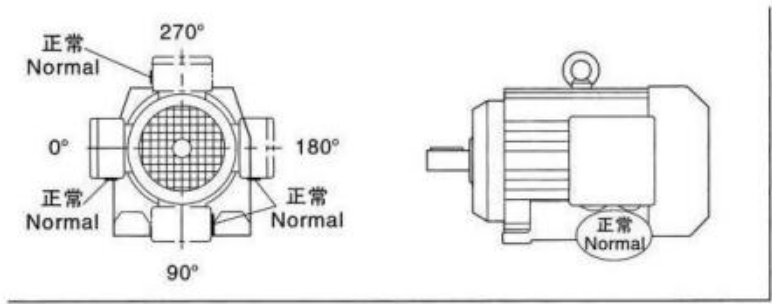
S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors

S37安装形式图 S37 Mounting position example



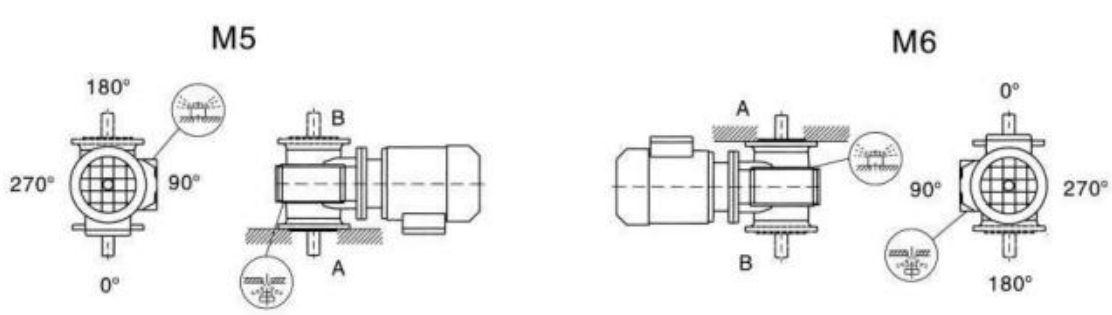
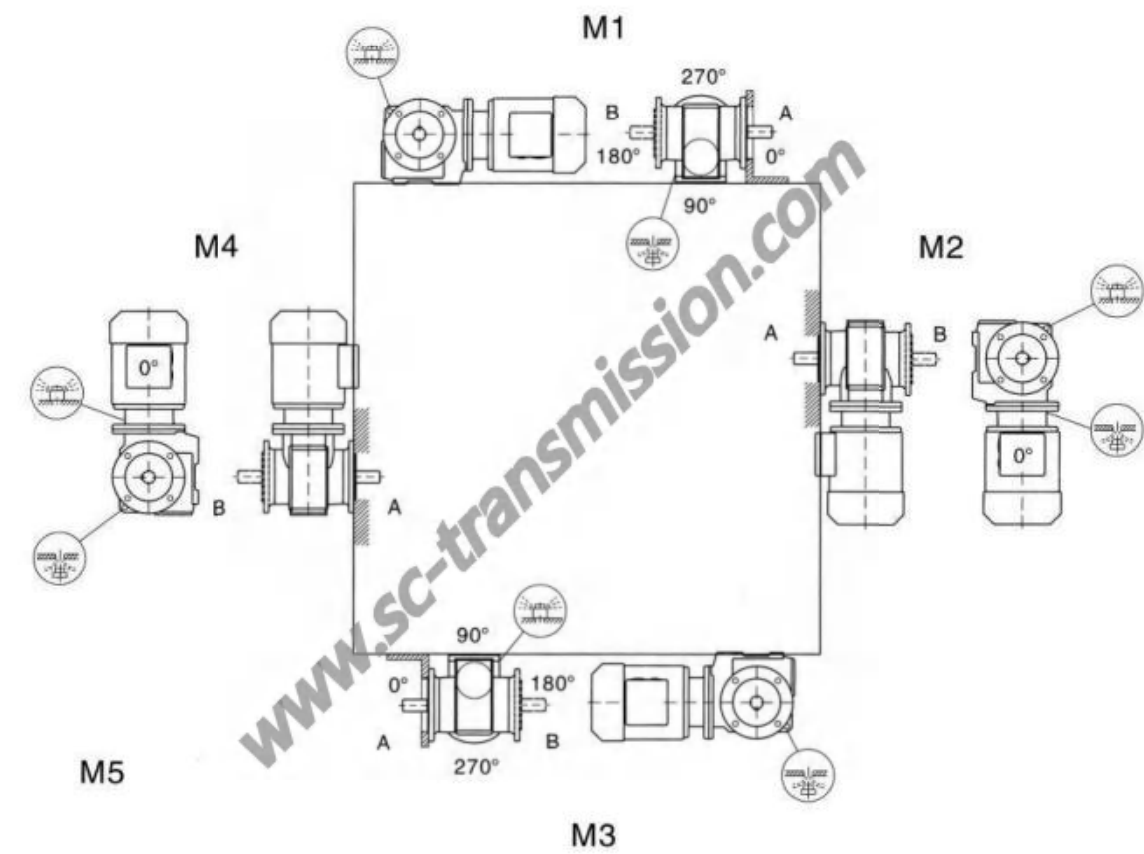
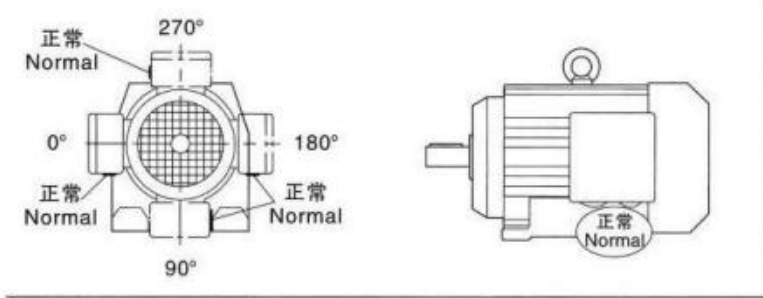
S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors

S47-97安装形式图 S47-97 Mounting position example



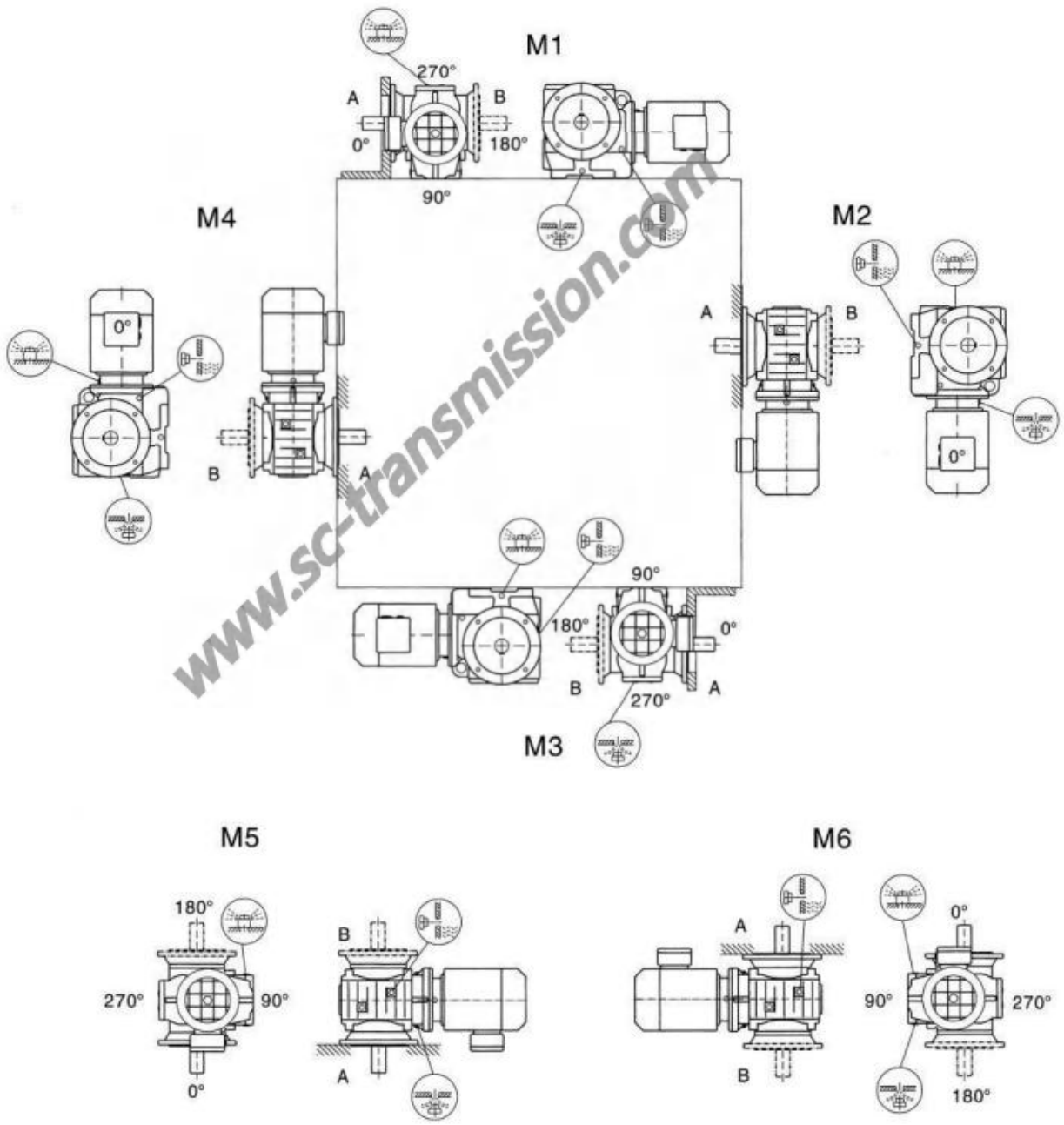
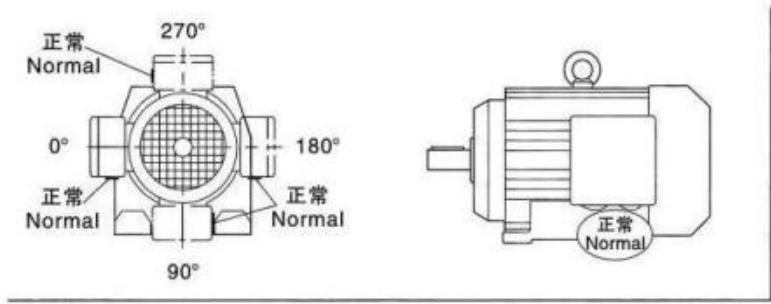
S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors

SF/SAF37安装形式图 SF/SAF37 Mounting position example



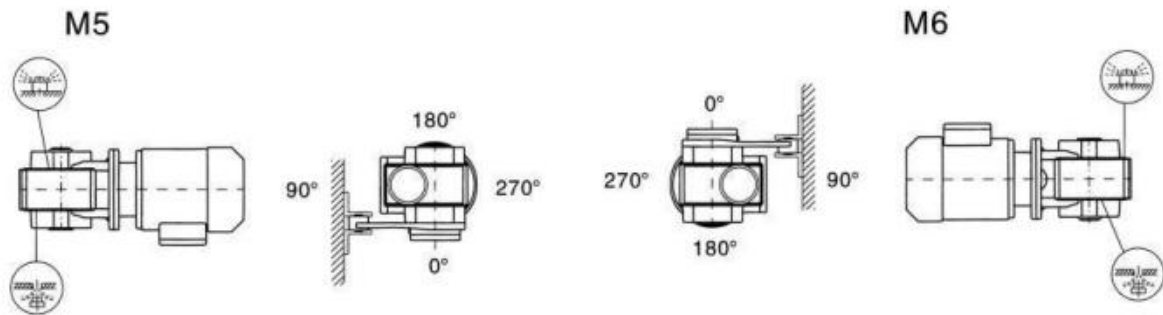
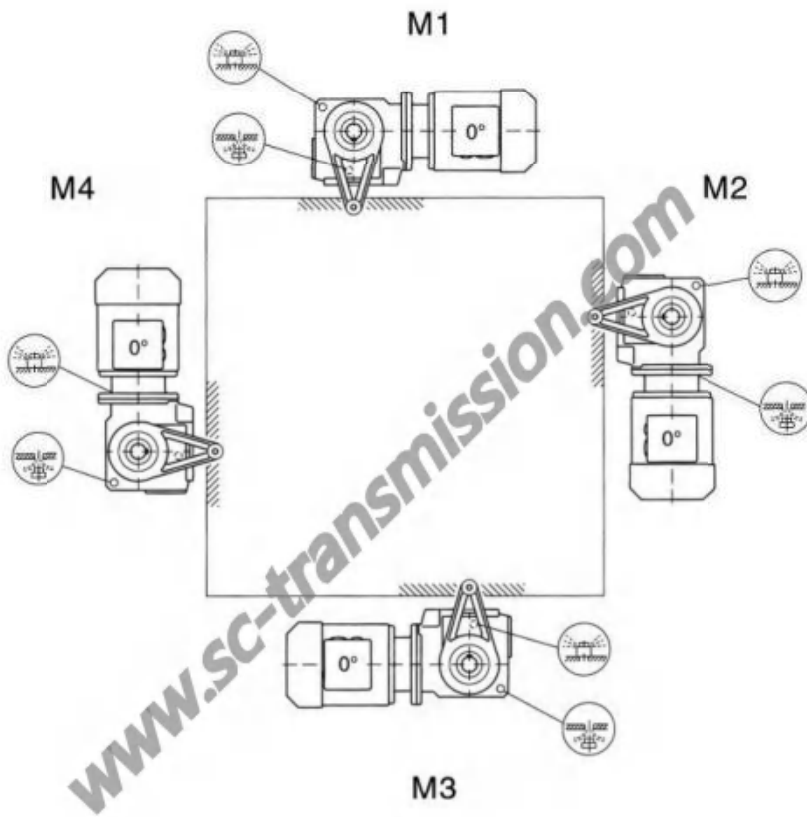
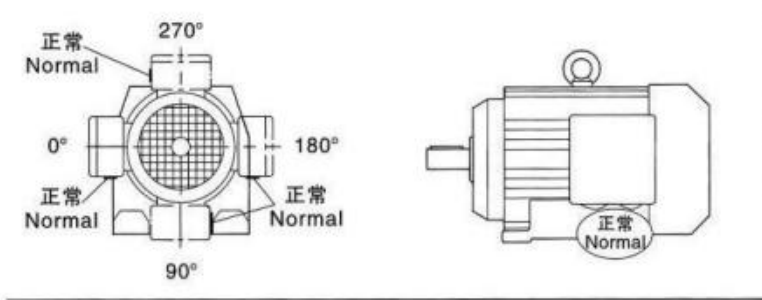
S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors

SF/SAF/SAZ47-97安装形式图 SF/SAF/SAZ47-97 Mounting position example



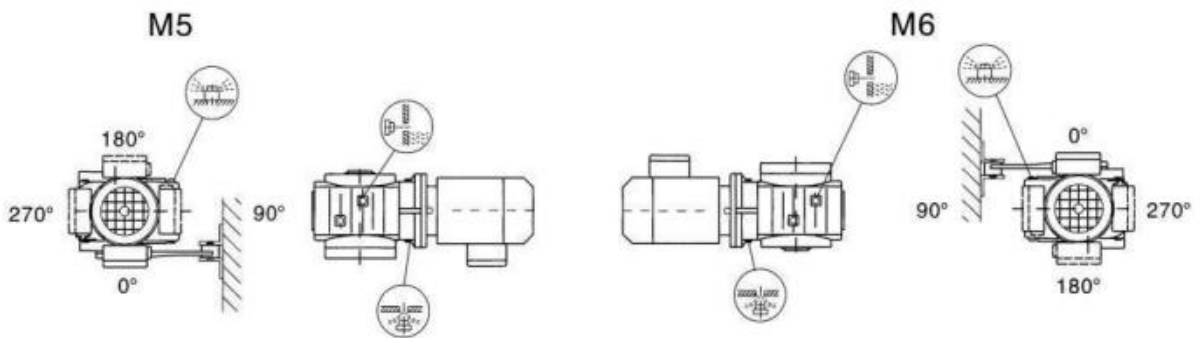
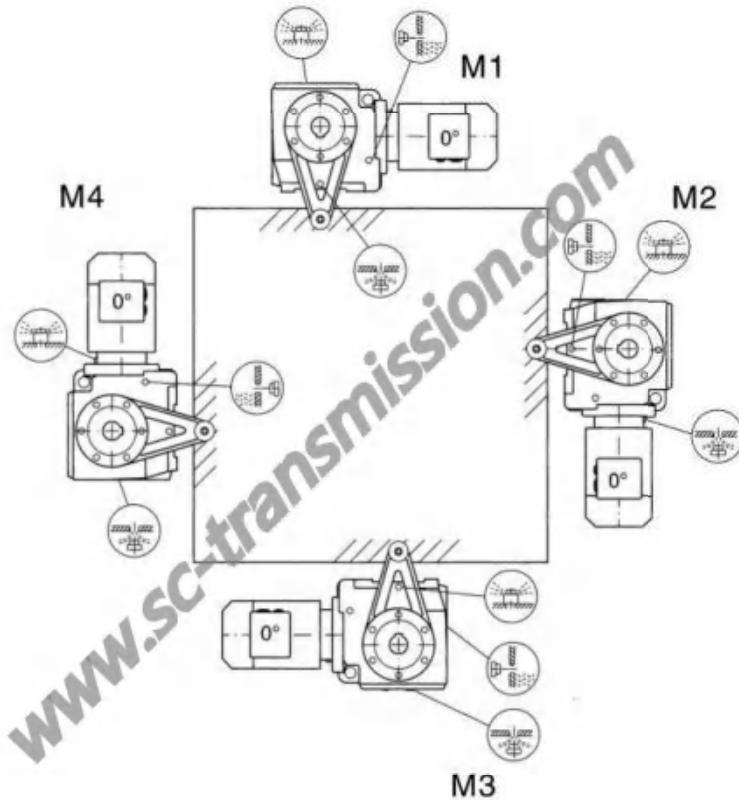
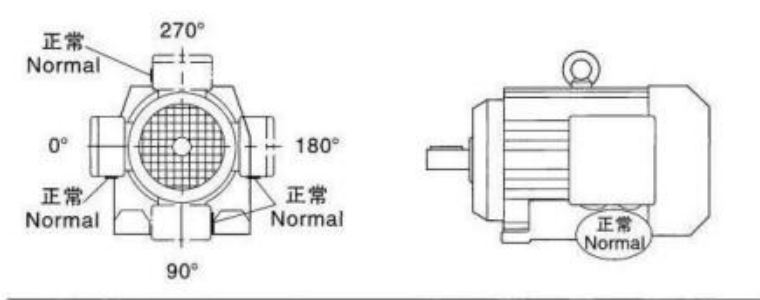
S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors

SAT37安装形式图 SAT37 Mounting position example



S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors

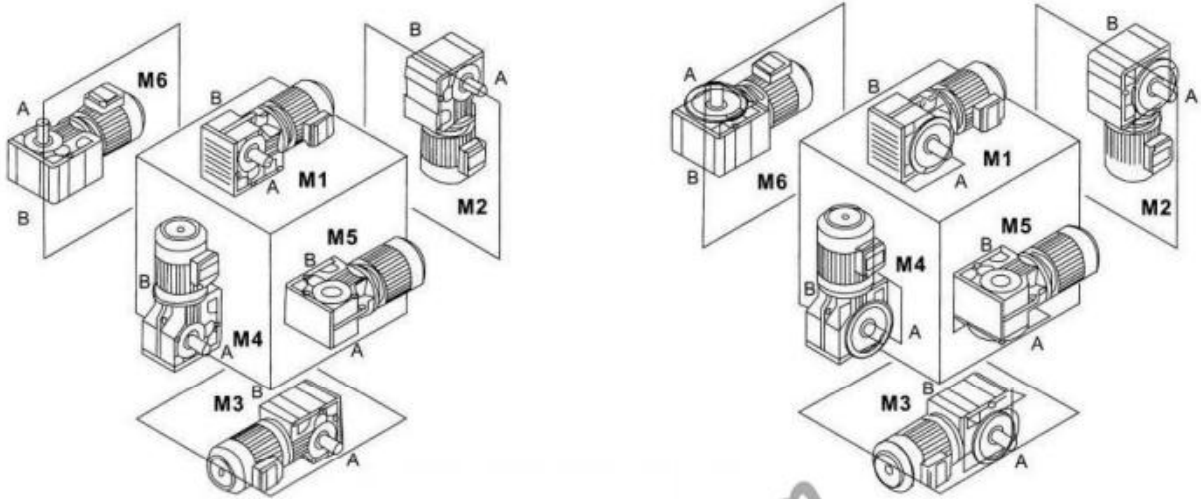
SAT47-97安装形式图 SAT47-97 Mounting position example



S系列斜齿轮-蜗轮蜗杆减速机/S helical-worm geared motors

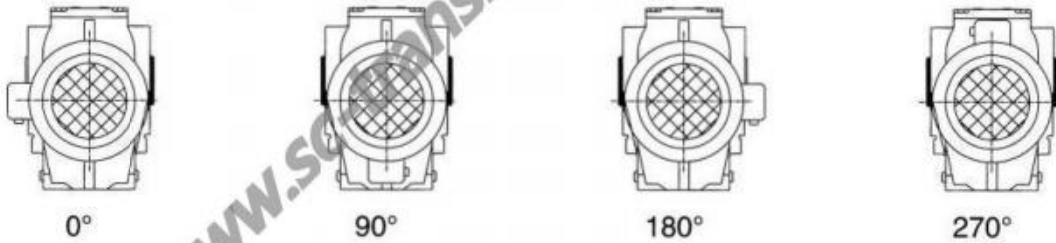
安装形式:

Mounting position:



电机接线盒位置

Position of the motor thermal box



输入功率及许用转矩

Input power rating and permissible torque

规格 Size	37	47	57	67	77	87	97
结构形式 Structure	S SA SF SAF SAT SAZ						
输入功率(kw) Input power rating	0.18~0.75	0.18~1.5	0.18~3	0.25~5.5	0.55~7.5	0.75~15	1.5~22
传动比 Ratio	10.27~165.71	11.46~244.74	10.75~196.21	11.55~227.20	9.96~241.09	11.83~223.26	12.75~230.48
许用转矩(N.m) Permissible torque	90	170	300	520	1270	2280	4000

S系列斜齿轮-蜗轮蜗杆减速机/S helical- worm geared motors

减速机重量

Gear unit weight

规格 Size	37	47	57	67	77	87	97
重量(kg) Weight	7	10	14	26	50	100	170

所注重量为平均值, 仅供参考

The weights are mean values, only for reference.

润滑油量表

Lubrication table

S...:

规格 Size	润滑油量 (升)			Fill quantity in liters		
	M1	M2	M3 ¹⁾	M4	M5	M6
S37	0.25	0.4	0.5	0.6	0.4	0.4
S47	0.35	0.8	0.7	1.1	0.8	0.8
S57	0.5	1.2	1	1.5	1.3	1.3
S67	1	2.0	2.2/3.1	3.2	2.6	2.6
S77	1.9	4.2	3.7/5.4	6	4.4	4.4
S87	3.3	8.1	6.9/10.4	12	8.4	8.4
S97	6.8	15	13.4/18	22.5	17	17

SF...:

规格 Size	润滑油量 (升)			Fill quantity in liters		
	M1	M2	M3 ¹⁾	M4	M5	M6
SF37	0.25	0.4	0.5	0.6	0.4	0.4
SF47	0.4	0.9	0.9	1.2	1.0	1.0
SF57	0.5	1.2	1	1.6	1.4	1.4
SF67	1	2.2	2.3/3	3.2	2.7	2.7
SF77	1.9	4.1	3.9/5.8	6.5	4.9	4.9
SF87	3.8	8	7.1/10.1	12	9.1	9.1
SF97	7.4	15	13.8/18.8	23.6	18	18

SA..., SAF..., SAZ...:

规格 Size	润滑油量 (升)			Fill quantity in liters		
	M1	M2	M3 ¹⁾	M4	M5	M6
S..37	0.25	0.4	0.5	0.6	0.4	0.4
S..47	0.4	0.8	0.7	1.1	0.8	0.8
S..57	0.5	1.1	1	1.6	1.2	1.2
S..67	1	2.0	1.8/2.6	2.9	2.5	2.5
S..77	1.8	3.9	3.6/5	5.9	4.5	4.5
S..87	3.8	7.4	6/8.7	11.2	8	8
S..97	7	14	11.4/16	21	15.7	15.7

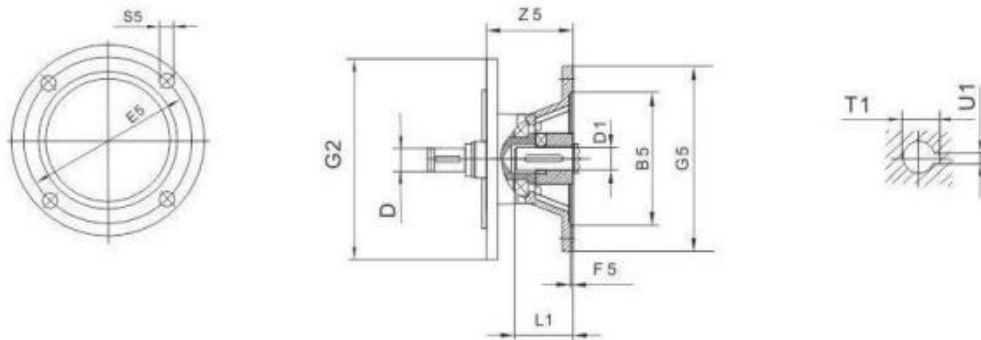
注: ¹⁾表示减速机为组合型时低速级所加油量为大值。

Notes: ¹⁾The large gear unit of multi-stage gear units must be filled with the larger oil volume.



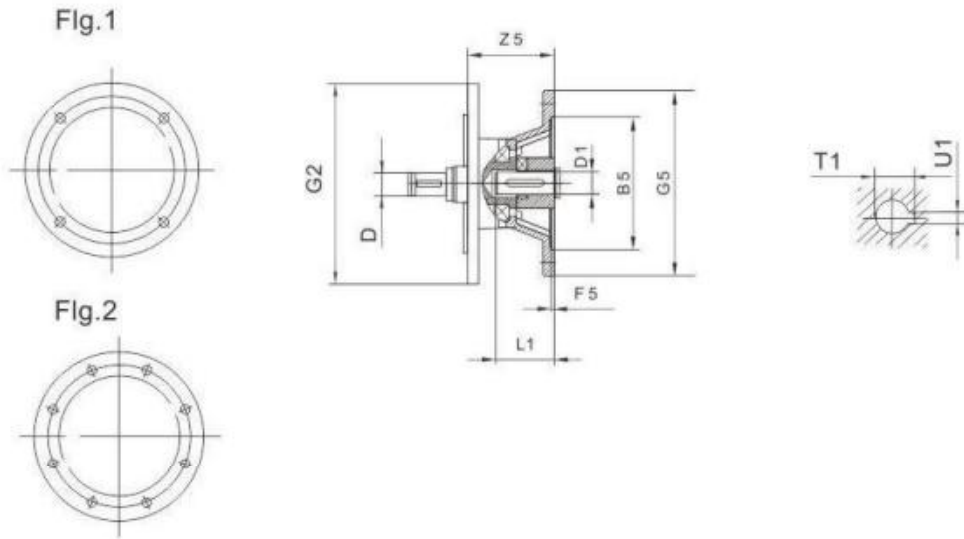
R/F/K/S联轴器尺寸表/ Coupling for mounting of IEC motor

用于安装IEC标准电机的联轴器 Coupling for mounting of IEC motors



减速机规格 Gear unit type	联轴器规格 Coupling type	B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1
R..27, R..37 F..37, F..47 K..37 S..37, S..47, S..57	AM63	95G7	10n6	115	3.5	120	140	M8	72	11F7	23	12.8	4
	AM71 ¹⁾	110G7	130	92.5			14F7		30	16.3	5		
	AM80 ¹⁾	130G7	12n6	165	4.5		200	M10	118	19F7	40	21.8	6
	AM90 ¹⁾		14n6						24F7	50	27.3	8	
R..47, R..57, R..67 F..57, F..67 K..47, K..57, K..67 S..67	AM63	95G7	10n6	115	3.5	160	140	M8	66	11F7	23	12.8	4
	AM71	110G7	130	87			14F7		30	16.3	5		
	AM80	130G7	12n6	165	4.5		200	M10	113	19F7	40	21.8	6
	AM90		14n6						24F7	50	27.3	8	
	AM100 ¹⁾	180G7	16n6	215	5		250	M12	144	28H7	60	31.3	8
	AM112 ¹⁾		18n6						177	38H7	80	41.3	10
	AM132 ¹⁾	230G7	22n6	265	300		177	38H7	80	41.3	10		
R..77 F..77 K..77 S..77	AM63	95G7	10n6	115	3.5	200	140	M8	60	11F7	23	12.8	4
	AM71	110G7	130	14F7			30			16.3	5		
	AM80	130G7	12n6	165	4.5		200	M10	92	19F7	40	21.8	6
	AM90		14n6						24F7	50	27.3	8	
	AM100 ¹⁾	180G7	16n6	215	5		250	M12	136	28H7	60	31.3	8
	AM112 ¹⁾		18n6						196	38H7	80	41.3	10
	AM132S ¹⁾	230G7	22n6	265	5		300	M12	196	38H7	80	41.3	10
	AM132M ¹⁾		28n6						196	38H7	80	41.3	10
AM132ML ¹⁾	230G7	28n6	265	5	300	M12	196	38H7	80	41.3	10		
R..87 F..87 K..87 S..87	AM80	130G7	12n6	165	4.5	250	200	M10	100	19F7	40	21.8	6
	AM90		14n6							24F7	50	27.3	8
	AM100	180G7	16n6	215	5		250	M12	131	28H7	60	31.3	8
	AM112		18n6						131	28H7	60	31.3	8
	AM132S	230G7	22n6	265	5		300	M12	191	38H7	80	41.3	10
	AM132M		28n6							191	38H7	80	41.3
	AM132ML	230G7	28n6	265	5		300	M12	191	38H7	80	41.3	10
	AM160 ¹⁾	250G7	28n6	300	6		350	M16	236	42H7	110	45.3	12
AM180 ¹⁾	32n6		300			6				350		M16	236

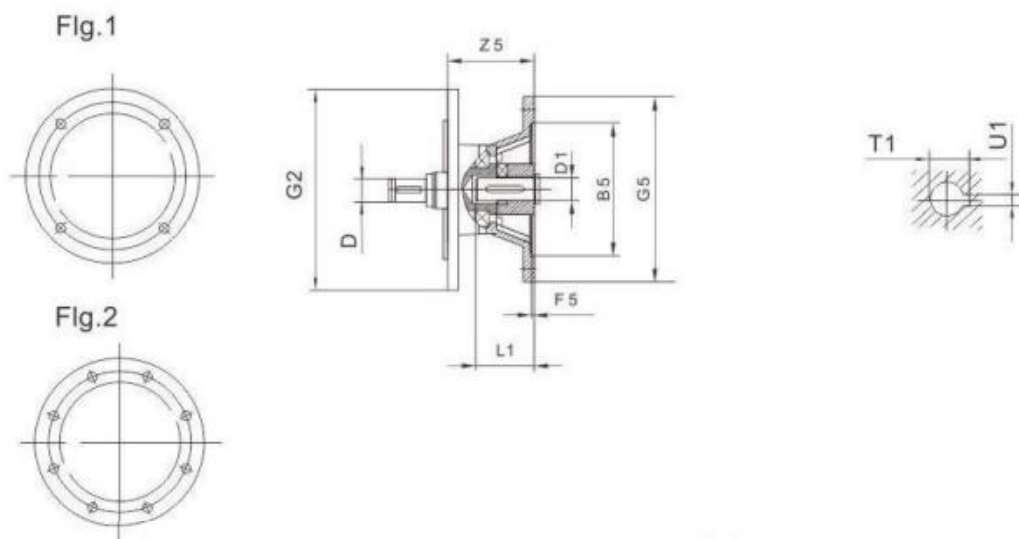
R/F/K/S联轴器尺寸表/ Coupling for mounting of IEC motor



减速机规格 Gear unit type	联接盘规格 Motor adcopator	Fig	B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1				
R..97 F..97 K..97 S..97	AM100	1	180 G7	16n6	215	5	300	250	M12	116	28H7	60	31.3	8				
	AM112			18n6														
	AM132S AM132M AM132ML		230 G7	22n6 28n6	265			300		300	169	38H7	80	41.3	10			
	AM160		2	250 G7	28n6	300		6	350	M16	227	42H7	110	45.3	12			
	AM180				32n6											51.8	14	
	AM200			300 G7	38n6	350					7	400	268	55F7	59.3	16		
	AM225 ¹⁾		350 G7	38n6	400	6		450		283	60H7	140	64.4	18				
	R..107 F..107 K..107		AM100	1	180 G7	16n6		215		5	350	250	M12	110	28H7	60	31.3	8
			AM112			18n6												
AM132S AM132M AM132ML		230 G7	22n6 28n6		265	300	300	163				38H7		80	41.3	10		
AM160		2	250 G7		28n6	300	6	350		M16		221	42H7	110	45.3	12		
AM180					32n6												51.8	14
AM200			300 G7		38n6	350			7			400	262	55F7	59.3	16		
AM225		350 G7	38n6		400	6	450		277	60H7		140	64.4	18				
R..137		AM132S AM132M AM132ML	1		230 G7	22n6	265		5	400		300	M12	156	38H7	80	41.3	10
		AM160				28n6												
	AM180	250 G7		28n6 32n6	300	6	350				214	42H7 48H7		110	45.3 51.8	12 14		
	AM200	2	300 G7	38n6	350	7	400		M16		255	55F7	110	59.3	16			
	AM225			350 G7												38n6	400	6

如果安装在R、K和S系列地脚安装方式的减速机上，请检查尺寸G5/2，它可能已经突出安装平面。
Dimension 1/2 G5 may protrude past foot mounting surface if mounted on R.K or S foot-mounted gear unit, Please check.

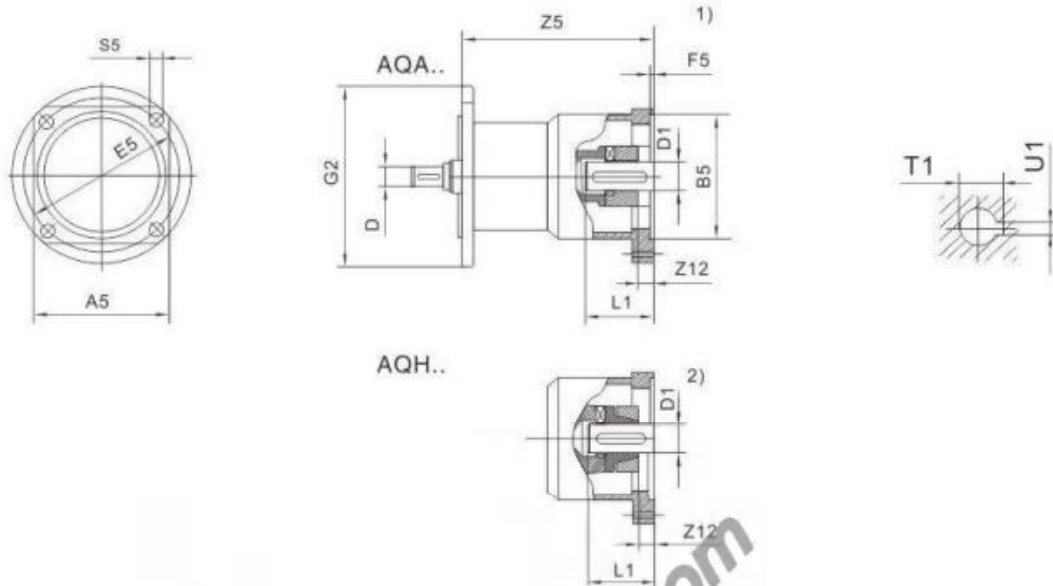
R/F/K/S联轴器尺寸表/ Coupling for mounting of IEC motor



减速机规格 Gear unit type	联接盘规格 Motor adcopator	Fig.	B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1		
R..147 F..127 K..127	AM132S	1	230G7	22n6	265	5	450	300	M12	148	38H7	80	41.3	10		
	AM132M			28n6												
	AM132ML			28n6												
	AM160	1	250G7	28n6	300	6		350	M16	206	42H7	110	45.3	12		
	AM180			32n6											51.8	14
	AM200	2	300G7	38n6	350	7		400	M16	247	55F7	140	59.3	16		
	AM225			38n6											64.4	18
	AM250	2	350G7	38n6	400	7		450	M16	262	60H7	140	69.4	20		
	AM280			48n6											79.9	20
R..167 F..157 K..157 K..167 K..187	AM160	1	250G7	28n6	300	6	550	350	M16	198	42H7	110	45.3	12		
	AM180			32n6											51.8	14
	AM200			38n6											59.3	16
	AM225	2	350G7	38n6	400	7		450	M16	239	55F7	140	64.4	18		
	AM250			38n6											69.4	20
	AM280	2	450G7	48n6	500	7		550	M16	328	65H7	140	79.9	20		
	AM280			75H7											79.9	20

R/F/K/S联接盘尺寸表/ Adapter for mounting of servomotor

用于安装伺服电机的联接盘 Adapter for mounting of servomotors



减速机规格 Gear unit type	联接盘规格 Motor adcopator	A5	B5	D	E5	F5	G2	S5	Z5	Z12 ¹⁾	Z12 ²⁾	D1	L1	T1 ¹⁾	U1 ¹⁾							
R..27 R..37 F..37 F..47 K..37 S..37 S..47 S..57	AQ..80/1	82	60G7	10n6	75	3	120	M5	104.5	5.5	5.5	11F7	23	12.8	4							
	AQ..80/2			12n6	95			M6							14F7	30	16.3	5				
	AQ..80/3	50G7																				
	AQ..100/1	100	80G7	10n6	100	4		M6	129.5	-	-	14F7	30	16.3	5							
	AQ..100/2		95G7	115	M8																	
	AQ..100/3		80G7	12n6	100			M6	143.5	7	14	19F7	40	21.8	6							
	AQ..100/4		95G7	115	M8																	
	AQ..115/1	115	95G7	14n6	130	4		160	M8	152.5	16	23	19F7	40	21.8	6						
	AQ..115/2		16n6	21													16	24F7	50	27.3	8	
	AQ..115/3		110G7																			
	R..47 R..57 R..67 F..57 F..67 K..47 K..57 K..67 S..67	AQ..80/1	82	60G7	10n6	75		3	160	M5	98	5.5	5.5	11F7	23	12.8	4					
AQ..80/2				12n6	95	M6									14F7	30	16.3	5				
AQ..80/3		50G7																				
AQ..100/1		100	80G7	10n6	100	4	M6	122.5		-	-	14F7	30	16.3	5							
AQ..100/2			95G7	115	M8																	
AQ..100/3			80G7	12n6	100		M6	136.5		7	14	19F7	40	21.8	6							
AQ..100/4			95G7	115	M8																	
AQ..115/1		115	95G7	14n6	130	4	160	M8		145.5	16	23	19F7	40	21.8	6						
AQ..115/2			16n6	21													16	24F7	50	27.3	8	
AQ..115/3			110G7																			
AQ..140/1		140	110G7	16n6	165	5	160	M10		175	21	16	24F7	50	27.3	8						
AQ..140/2			130G7	18n6													21	16	24F7	50	27.3	8
AQ..140/3				22n6													24	22	32F7	60	35.5	10

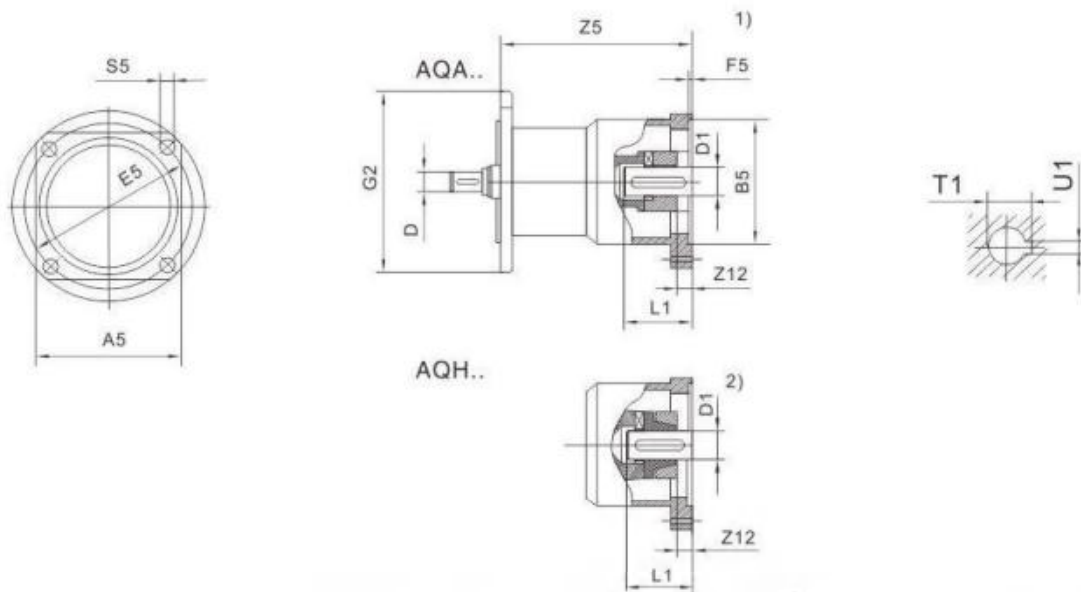
1)适用于键连接(AQA..)

1)Applies to type with key way(AQA)

2)适用于锁紧套连接(AQH..)

2)Applies to type with clamping ring hub (AQH)

R/F/K/S联接盘尺寸表/ Adapter for mounting of servomotor



减速器规格 Gear unit type	联接盘规格 Motor adccopator	A5	B5	D	E5	F5	G2	S5	Z5	Z12 ¹⁾	Z12 ²⁾	D1	L1	T1 ¹⁾	U1 ¹⁾		
R..77 F..77 K..77 S..77	AQ..80/1	82	60G7	10n6	75	3	200	M5	92	5.5	5.5	11F7	23	12.8	4		
	AQ..80/2		50G7	12n6	75			14F7				30	16.3	5			
	AQ..80/3			95													
	AQ..100/1	100	80G7	10n6	100	4		M6	115.5	-	-	14F7	30	16.3	5		
	AQ..100/2		95G7		115												
	AQ..100/3		80G7		12n6			100				M6	129.5	7	14	19F7	40
	AQ..100/4		95G7	14n6	115	M8											
	AQ..115/1		115	95G7	16n6	130		5	M8	138.5	16	23	19F7	40	21.8	6	
	AQ..115/2			110G7	21				16				24F7	50	27.3	8	
	AQ..115/3																
	AQ..140/1	140	110G7	16n6	165	5		M10	167	21	16	24F7	50	27.3	8		
	AQ..140/2		130G7	18n6				180				24	22	32F7	60	35.3	10
	AQ..140/3		22n6														
	AQ..190/1	190	130G7	22n6	215	5		M12	225.5	26	24	32F7	60	35.3	10		
AQ..190/2	180G7		28n6	249.5			39	34				38F7	80	41.3	10		
AQ..190/3																	
R..87 F..87 K..87 S..87	AQ..100/1	100	80G7	12n6	100	4	250	M6	110.5	-	-	14F7	30	16.3	5		
	AQ..100/2		95G7		115												
	AQ..100/3		80G7		100			M6				124.5	7	14	19F7	40	21.8
	AQ..100/4		95G7	14n6	115			M8									
	AQ..115/1	115	95G7	16n6	130	5		M8	133.5	16	23	19F7	40	21.8	6		
	AQ..115/2		110G7	21				16				24F7	50	27.3	8		
	AQ..115/3																
	AQ..140/1	140	110G7	16n6	165	5		M10	162	21	16	24F7	50	27.3	8		
	AQ..140/2		130G7	18n6				175				24	22	32F7	60	35.3	10
	AQ..140/3		22n6														
AQ..190/1	190	130G7	22n6	215	5	M12	220.5	26	24	32F7	60	35.3	10				
AQ..190/2		180G7	28n6			244.5				39	34	38F7	80	41.3	10		
AQ..190/3																	

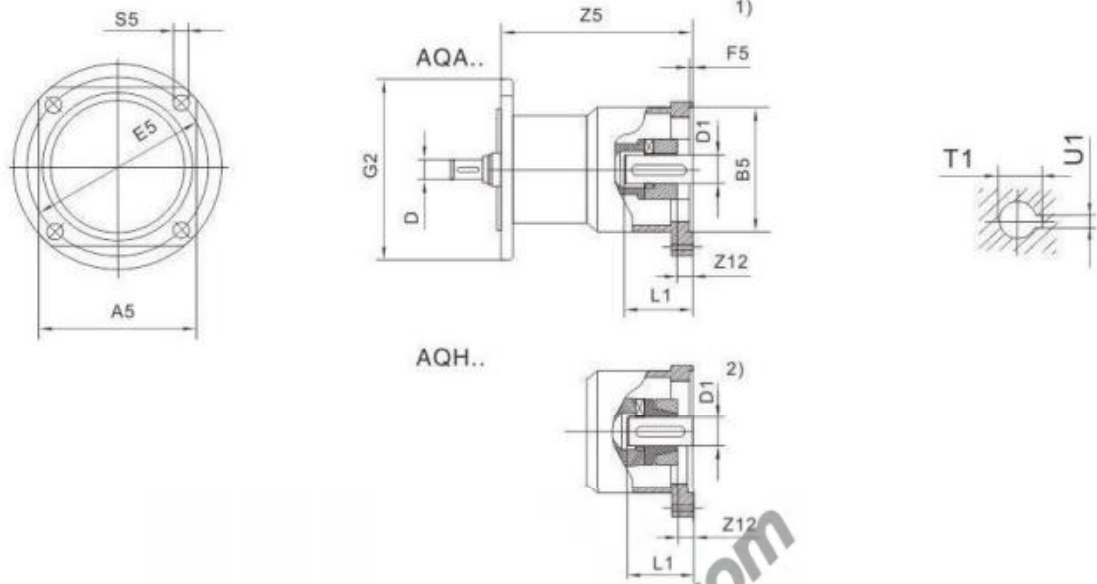
1)适用于键连接(AQA..)

2)适用于锁紧套连接(AQH..)

1)Applies to type with key way(AQA)

2)Applies to type with clamping ring hub (AQH)

R/F/K/S联接盘尺寸表/ Adapter for mounting of servomotor



减速机规格 Gear unit type	联接盘规格 Motor adcopator	A5	B5	D	E5	F5	G2	S5	Z5	Z12 ¹⁾	Z12 ²⁾	D1	L1	T1	U1	
R..97 F..97 K..97 S..97	AQ..140/1	140	110G7	16n6	165	5	300	M10	157	21	16	24F7	50	27.3	8	
	AQ..140/2		130G7	18n6												
	AQ..140/3		130G7	22n6												
	AQ..190/1	190	130G7	22n6	215			M12	215.5	26	24	32F7	60	35.3	10	
	AQ..190/2		180G7	28n6												
AQ..190/3	180G7		28n6													
R..107 F..107 K..107	AQ..140/1	140	110G7	16n6	165	5	350	M10	151	21	16	24F7	50	27.3	8	
	AQ..140/2		130G7	18n6												
	AQ..140/3		130G7	22n6												
	AQ..190/1	190	130G7	22n6	215			M12	209.5	26	24	32F7	60	35.3	10	
	AQ..190/2		180G7	28n6												
AQ..190/3	180G7		28n6													
R..137	AQ..190/1	190	130G7	22n6	215	5	400	M12	202.5	-	25	32F7	60	35.3	10	
	AQ..190/2		180G7	28n6												
	AQ..190/3		180G7	28n6												
R..147 F..127 K..127	AQ..190/1	190	130G7	22n6	215		5	450	M12	194.5	26	24	32F7	60	35.3	10
	AQ..190/2		180G7	28n6												
	AQ..190/3		180G7	28n6												
	AQ..190/3		180G7	28n6												

1)适用于键连接(AQA..)

1)Applies to type with key way(AQA)

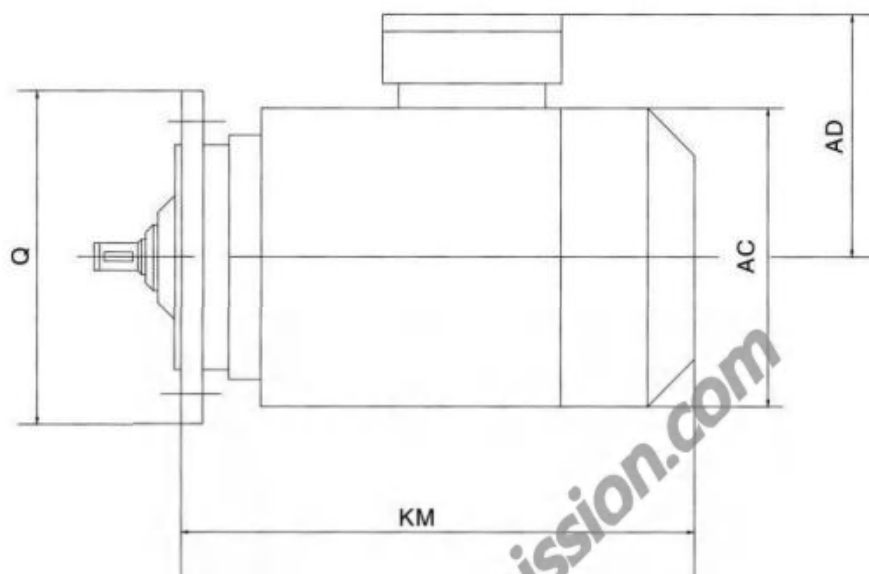
2)适用于锁紧套连接(AQH..)

2)Applies to type with clamping ring hub (AQH)

电机尺寸表/ The size of motor

附件一：电机尺寸表/The size of motor

(仅作参考，以厂家实际尺寸为准)
(for reference only, based on manufacturer's actual size)



电机型号	Q mm	标准 KM mm	YEJ KM mm	YVP KM mm	YVPJ KM mm	AD mm	AC mm
Y63	120	221	275	290	330	70	130
	160	210	264	279	319		
	200	200	254	269	309		
Y71	120	249	300	299	373	80	140
	160	244	295	294	373		
	200	238	289	288	363		
Y80	120	271	330	327	418	145	175
	160	265	324	321	418		
	200	259	318	315	418		
	250	254	313	310	385		
Y90S (L)	120	300	355	350	440	155	195
		325	380	375	465		
	160	295	350	345	440		
		320	375	370	465		

电机型号	Q mm	标准 KM mm	YEJ KM mm	YVP KM mm	YVPJ KM mm	AD mm	AC mm
Y132ML	400	385	468	423	506	168	275
	450	377	460	415	498		
	550	369	452	407	490		
Y160M	200	520	633	562	697	255	315
	250	520	633	562	697		
	300	520	633	562	697		
	350	502	613	542	677		
	400	502	613	542	677		
	450	475	585	515	650		
Y160L	550	476	568	505	603	255	315
	250	565	678	607	742		
	300	565	678	607	742		

电机尺寸表/ The size of motor

电机型号	Q mm	标准 KM mm	YEJ KM mm	YVP KM mm	YVPJ KM mm	AD mm	AC mm	电机型号	Q mm	标准 KM mm	YEJ KM mm	YVP KM mm	YVPJ KM mm	AD mm	AC mm					
Y90S (L)	200	287	342	337	440	155	195	Y160L	350	547	658	587	722	255	315					
		312	367	362	465				400	547	658	587	722							
	250	283	338	333	415				450	520	630	560	695							
		308	363	358	440				550	518	635	560	695							
	300	291	342	346	402			Y180M (L)	250	600	685	622	782	280	380					
Y100	120	355	415	400	495	300	638		723	660	800									
		160	347	407	392		490		581	666	603	762								
Y112	200	339	399	389	490	350	581		666	603	762	305	420							
		250	335	395	380		490		619	703	641					781				
	300	329	389	375	452	400	581		666	603	762									
		350	323	383	370		455		619	703	641					781				
Y132S	160	380	440	420	520	190	240		Y200	450	553	638	575			725	305	420		
		200	371	431	411					520	591	676	613			753				
	Y132M	200	408	478	448				580	210	275	Y225S	300			581			666	603
			250	403	473			443	580				619	703	641	781				
			300	398	468			438	580				300	665	795	730			859	
Y132ML	200	420	490	460	580	210	275	Y225M	350	665	795	730	859	335	470					
		250	408	478	448				580	400	654	782	717			852				
	300	392	462	432	545				450	654	782	717	852							
		400	385	455	425					543	550	642	770			705	840			
	Y132ML	160	458	528	498			618	210	275	Y250M	300	716	858	770	900	370	510		
			200	446	516			486				618	350	680	847	756			886	
		250	441	511	481			618				400	680	847	756	886				
300			436	506	476	618	450	674					840	750	880					
Y132ML		200	408	491	446	529	168	275				Y280	550	669	830	745			875	408
	250		403	486	441	524			300	741	883		795	925						
	300	398	481	436	519	350			702	872	781		911							
		350	392	475	430				513	400	702		872	781	911					
Y132ML	200	408	491	446	529	168	275	Y315	450	696	865	775	905	530	635					
		250	403	486	441				524	400	785	932	839			992				
	300	398	481	436	519				450	790	936	831	984							
		350	392	475	430					513	550	785	931			823	976			
Y132ML	200	408	491	446	529	168	275	Y280	400	898	1054	943	1099	408	580					
		250	403	486	441				524	450	890	1046	835			1091				
	300	398	481	436	519				550	882	1038	927	1083							
		350	392	475	430					513	660	1130	1286			1175	1331			

注意：
 YEJ表示电机增加制动器后的KM值。
 YVP表示电机为变频调速三相异步电动机时的KM值。
 YVPJ表示电动机为变频调速三相电动机并附带制动器式的KM值。
 因空间限制对电机尺寸有要求时请向我公司咨询。

Notes:
 YEJ is the KM value for motor with brake.
 YVP is the KM value for asynchronous motor with frequency.
 YVPJ is the KM value for asynchronous motor with frequency and brake.
 if you have any special requirements, please contact us.

附件二：润滑油/LUBRICATION

2.1 概述

如果订货时没有商定特殊要求，公司将为您提供适用于减速器及其安装方式的润滑油进行润滑的传动机构。因为这个原因，所以请您在订货时指定与安装方式相关的参数（M1-M6，→“安装方式及重要的订货提供参数”章节）。在后期调整安装方式时，您必须根据改变后的安装方式相应调整加注润滑油（→润滑油注入量）。

2.2 滚动轴承润滑脂

减速器和电动机的滚动轴承在出厂时就加注了润滑脂。对于配有润滑油加注装置的滚动轴承，建议在更换机油时也更换润滑脂。下列润滑脂更换时参考：

2.1 General information

Unless a special arrangement is made, JIACHENG supplies the drives with a lubricant fill adapted for the specific gear unit and mounting position. The decisive factor is the mounting position (M1..M6, → Sec. "Mounting Positions and important Order Information") specified when ordering the drive. You must adapt the lubricant fill in case of any subsequent changes made to the mounting position (→ Lubricant fill quantities).

2.2 Anti-friction bearing greases

The lubricant table on the following page shows the permitted lubricants for JIACHENG gear units. Please note the following key to the lubricant table:

	环境温度	制造厂家	型号	润滑油类型
减速器滚动轴承	-20°C~+60°C	Mobil	Mobilux EP 2	矿物油
	-40°C~+80°C	Mobil	Mobiltemp SHC 100	合成油
电机滚动轴承	-20°C~+80°C	Esso	Unirex EQ 3	矿物油
	-20°C~+60°C	Shell	Alvania RI3	矿物油
	+80°C~+100°C	Klüber	Barrierta L55/2	合成油
	-45°C~+25°C	Shell	Aero Shell Grease 16	合成油

需要下列润滑脂加注量

- 如果是高速运转的轴承(电动机和减速器输入端)：轴承腔中加入三分之一的润滑脂。
- 如果是低速运转的轴承(电动机和减速器输出端)：轴承腔中加入三分之二的润滑脂。

The following grease quantities are required:

For fast-running bearings (motor and gear unit input end): Fill the cavities between the folling elements one third full with grease.

For fast-running bearings (in gear units and at gear unit output end): Fill the cavities between the folling elements one third full with grease.

传动装置润滑油表 Lubricant table

减速机型号 Gear unit type	6)		DIN (ISO)	ISO, NLGI	Mobil®	Shell	KUBBER	ARAL	bp	Tribol	TEXACO	Optimol	FUCHS
	°C	°C											
R...	Standard	Standard	CLP (CC)	VG 220	Mobilgear 630	Shell Omala 220	Kuberoil GEM 1-220	Aral Degol BG 220	BP Energol GR-XP 220	Tribol 1100/220	Meropa 220	Optigear BM 220	Renolin CLP 220
	-10	+40	CLP PG	VG 220	Mobil Glygoyle 30	Shell Tivela HD 220	Kubbersynth KUB 6-220	Aral Degol GS 220	BP Energol SG-XP 220	Tribol 800/220	Synlube CLP 220	Optiflex A 220	Optigear Synthetic A 220
K...	-25	+80	CLP PG	VG 220	Mobil SHC 630	Shell Omala HD 220	Kubbersynth EG 4-220	Aral Degol PAS 220		Tribol 1510/220	Pinnacle EP 220	Optigear Synthetic A 220	
	-40	+80	CLP HC	VG 150	Mobil SHC 629	Shell Omala HD 150	Kubbersynth EG 4-150				Pinnacle EP 150	Optigear BM 100	Renolin CLP 150
F...	-20	+25	CLP (CC)	VG 150	Mobilgear 627	Shell Omala 100	Kuberoil GEM 1-150	Aral Degol BG 100	BP Energol GR-XP 100	Tribol 1100/100	Meropa 150	Optigear BM 100	Renolin CLP 150
	-30	+10	HLP (HM)	VG 68-80	Mobil D.T.E. 13M	Shell Tellus T 32	Kuberoil GEM 1-68	Aral Degol BG 46		Tribol 1100/68	Rando EP Ashless 46	Optigear 32	Renolin B 46 HVI
S...	-40	+10	CLP HC	VG 32	Mobil SHC 628	Kubber-Summit HySyn FG-32					Cetus PAO 46		
	-40	-20	HLP (HM)	VG 22	Mobil D.T.E. 11M	Shell Tellus T 15	Isotlex MT 30 ROT		BP Energol HLP-HM 15		Rando HDZ 15		
R...;K... F...;S...	Standard	Standard	CLP (CC)	VG 680	Mobilgear 636	Shell Omala 680	Kuberoil GEM 1-680	Aral Degol BG 680	BP Energol GR-XP 680	Tribol 1100/680	Meropa 680	Optigear BM 680	Renolin CLP 680
	-20	+60	CLP PG	VG 680	Mobil SHC 634	Shell Tivela S 680	Kubbersynth KUB 6-680		BP Energol SG-XP 680	Tribol 800/680	Synlube CLP 680	Pinnacle EP 460	
F...;S...	-30	+80	CLP HC	VG 460	Mobil SHC 629	Shell Omala HD 150	Kubbersynth EG 4-150				Pinnacle EP 150		
	-40	+10	CLP (CC)	VG 150	Mobilgear 627	Shell Omala 100	Kuberoil GEM 1-150	Aral Degol RG 100	BP Energol GR-XP 100	Tribol 1100/100	Meropa 100	Optigear BM 100	Renolin CLP 150
R...;K... F...;S...	-20	+10	CLP PG	VG 220	Mobil Glygoyle 30	Shell Tivela S 220	Kubbersynth KUB 6-220			Tribol 800/220	Synlube CLP 220	Optiflex A 220	
	-25	+20	CLP PG	VG 220	Mobil SHC 624	Shell Tivela S 220	Kubber-Summit HySyn FG-32				Cetus PAO 46		
F 227 R 17 R 27	-40	0	CLP HC	VG 32	Mobil SHC 624	Kubber-Summit HySyn FG-32					Cetus PAO 46		
	-30	+40	HCE	VG 460		Shell Casiside Fluid GL 460	Kuberoil 4UH1-460 N	Aral Eural Gear 460			Optileb GT 460		
F 227 R 17 R 27	-20	+40	E	VG 460		Shell Casiside Fluid GL 460	Kuberoil 4UH1-460 N	Aral Degol BAB 460			Optisyn BS 460		
	-25	+60	DIN 51 818	00	Glygoyle Grease 00	Shell Tivela GL 00	Kubbersynth GE 46-1200	Aralub MFL 00	BP Energrease LS-EP 00		Multifak 6833 EP 00	Longtime PD 00	Renolin SF 7 - 041
F 227 R 17 R 27	Standard	Standard	DIN 51 818	000 - 0	Mobilux EP 004	Shell Alvania GL 00					Multifak EP 000		
	-15	+40	5)										

注：以上表格中上色部分为合成油产品，空白为该品牌无此系列产品。
Notes: In the above table, the color parts are synthetic products and the blank one means no this series products.

附件三：维护/MAINTENANCE

1). 对于齿轮箱，首次换油必须在工作大约300小时(齿轮磨合期)后进行，在换油时应使用合适的清洗剂小心地冲洗齿轮箱，不得将矿物油和合成油混合。

2). 每工作3000小时，最低程度半年，应检测油以及油位，油封密封不严引起滴漏的常规检测，若是IEC输入的减速器，则检测检查弹性体，必要时进行更换。

3). 根据不同的工作条件(见下图)而定，最长每三年检测一次，更换矿物油，更换轴承润滑油脂。

4). 根据不同的工作条件而定，更换输出轴上的油封。

5). 产品出现故障时，不要拆卸部件，与本公司售后服务部门联系(需提供减速器规格、出厂日期、编号、已使用时间、主机名称、主机生产单位和故障类型)后，再采取合理的措施。

附件五：定货须知/NOTICE FOR ORDER

减速器定单请向我们提供以下信息：

1). 减速器型号标记(减速器类型、速比、功率和安装方式)。

2). 订货时注意：选用RF和RXF型时要注明输出法兰的外径大小；选SA、SAF、SAZ型时要注明输出轴孔径大小

3). 选K、KF、KAF、KAZ及S、SF、SAF、SAZ型时要注明输出轴及输出法兰的方向（A向或B向）。

4). 订货时还须注明减速机工作时的实际安装方式（M1~M6），共有6种安装方式。

5). 如配直联电机，则要注明电机接线盒的方向，共有0度、90度、180度、270度四种方向。

6). 减速器表面喷涂颜色，有蓝色和灰色两种供选择，一般按蓝色提供。

7). 订购数量。

8). 其他特殊要求。

9). 单位名称、联系人、联系电话。

附件四：存放/STORAGE

1). 有顶棚，防雨雪，无振动。

2). 在设备和地面之间垫放木块或其他材料。

3). 开箱后暂不使用的齿轮减速器在其加工表面涂上防锈油，并应及时放回包装箱内。

4). 在定期检查的情况下，两年以及更长时间。在进行检查时，应检查清洁度和机械损伤，检查防锈层是否完好。

故障诊断/ Fault diagnosis

附件六：故障诊断/FAULT DIAGNOSIS

6.1 减速器故障/Gear unit malfunctions

故障	可能的原因	解决办法
异常、均匀的运转噪声。	A. 滚动/碾压噪声：轴承损坏。 B. 冲击型噪声：齿轮啮合不均匀。	A. 检查润滑油，更换轴承。 B. 请咨询客户服务部。
异常、不均匀的运转噪声。	机油中有异物。	· 检测润滑。 · 停止运转传动装置，向客户服务部咨询。
机油泄漏 ¹⁾ · 在减速器盖上。 · 在电机凸缘上。 · 在电机轴密封圈上。 · 在减速器凸缘上。 · 在输出端轴密封圈上。	A. 减速器底座上的橡胶密封发生渗漏。 B. 密封圈损坏。 C. 减速器没有排气。	A. 拧紧各个外盖上的螺钉并且观察减速器。 如果机油继续泄露，请咨询客户服务部。 B. 请咨询客户服务部。 C. 给减速器排气(参见“安装方式”)。
机油从排气阀旁渗出。	A. 机油太多。 B. 传动装置安装方式错误。 C. 频繁冷启动(机油起泡沫)和/或者较高的油位。	A. 修正油量(参见“润滑油”)。 B. 正确安装排气阀并且矫正油位(参见“安装方式”)。
尽管电机在运转或者传动轴已经被驱动，但是传动轴不转动。	减速器中的轴轮毂联接断裂。	将减速器或减速电机送修。

¹⁾在磨合试运转阶段(24小时的运转时间内)，轴密封圈有可能出现短期内的漏油/漏脂的现象。

6.2 IEC 连接器运转故障/IEC couplings malfunctions

故障	可能的原因	解决办法
异常、均匀的运转噪声。	滚动/碾压噪声：轴承损坏。	与我公司客户服务部联系。
机油泄漏。	密封圈损坏。	与我公司客户服务部联系。
尽管电机在运转或者传动轴已经被驱动，但是传动轴不转动。	减速器中的轴轮毂联接断裂。	将减速器发送到我公司进行维修。
运转时的噪声发生变化以及/或者出现不正常的震动。	A. 齿圈磨损，因为通过金属直接接触进行短期转动扭矩的传输造成。 B. 轴向轮毂连接螺栓松动。	A. 更换齿圈。 B. 拧紧螺栓。
过早的齿圈磨损。	A. 接触腐蚀性流体或油；臭氧的侵蚀影响，工作环境温度过高等等，都导致齿圈发生规格的改变。 B. 对于齿圈，不允许过高的环境温度以及接触区域温度过高；最大的温度允许范围为-20℃到+80℃。 C. 负载过载。	与我公司客户服务部联系。