



一鼎华微传动  
YIDING HUA MICRO TRANSMISSION



硬齿面齿轮减速机制造商  
Manufacturer Of Hardened Face Gear Reducers



一鼎华微传动

YIDING HUA MICRO TRANSMISSION

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中国·杭州

## 产品图片 PRODUCT PICTURES

### F系列平行轴--斜齿轮减速机



#### 一、性能特点Characteristics:

1. 一鼎华微传动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。
1. YIDING Hua Micro transmission are based on the building block design,so it's convenient for them to fit all types of motors or to connect with other power input,The same tyhpe of reducers can fit motors with different power,so that it's possible for different types of machines to combine or connect.
  2. High transmission efficiency.A single machine can reach a transmission efficiency as much as 96%.
  3. Precise division of transmission ratio with a wide range.The combination of machines can produce a larger transmission ratio at a low output rotational speed.
  4. Various ways of installation.Horizontal installation at any position or flanged installation.

#### 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。
1. Working temperature:-40℃ ~ 50℃ (The lubrication should be heated until above 0℃ if the machine works Below 0℃.)
  2. The working place should be lower than 1,000 meters above sea level.
  3. The input rotational speed should not exceed 1,800r/m.The circumferential speed of the gear should not exceed 22m/s.
  4. Suitable for normal-reverse rotation.
  5. Without industry limitation.
  6. Please consult our technical supporting department for other circumstances.

### 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、S、K、F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》

Speed reducer is designed by referring to invariable torque on the condition of normal temperature below 20°C, with on-off frequency less than 10 per hour. Before selecting machine model according to model selection parameter table, it is required to know the load and operating conditions of working machine. After confirming operating power, select utilization coefficient  $f_B$  in parameter table according to the following methods.

Modeling of R、S、K、F four large series

1. To confirm operating power P(KW) of working machine;

2. To confirm the lowest operating mode coefficient  $f_1$  (Table 1) according to load features of working machine and daily operating hours;

3. To confirm startup coefficient  $f_2$  (Table 2) according to the number of starts per hour;

4. To calculate total operating mode coefficient  $f_A$ ; (Ambient temperature coefficient  $f_3$  (Table 3) must be considered for S series.)

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

5. To select the specifications of speed reducer from model selection table according to its operating power and output rotating speed, meanwhile it is necessary to ensure that  $f_A \leq$  utilization coefficient  $f_B$  offered in model selection parameter table.

Notes: If users have higher reliability requirements for speed reducer, certain safety coefficient must be multiplied or you can call us for further consultation;

Please contact the technical department of our company for any information on radial load and axial load of output terminal;

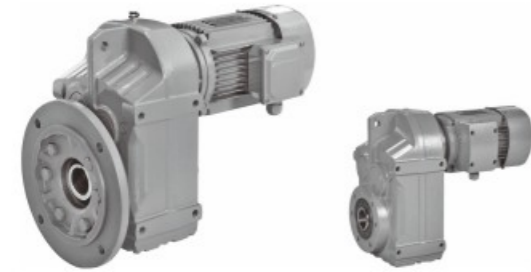
Please refer to the 《Operation instructions of speed reducer》 attached with the machine.

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	
	捞集设备	1	1.2	1.3		转臂式起重机	1	1.2	1.6	
	纵向, 回转组合捞集装置	1	1.3	1.5		化学工业	挤压机	-	-	1.6
	预缩器	-	1.1	1.3	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	风机类	冷却塔风扇	-	-	2	
斗轮式挖掘机: 用于粗料		/	2.2	2.2		风机(轴流和离心式)	-	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	运货索道	-	1.3	1.4		
纺织工业	织机	1.25	1.5	1.75	索道缆车	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	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	

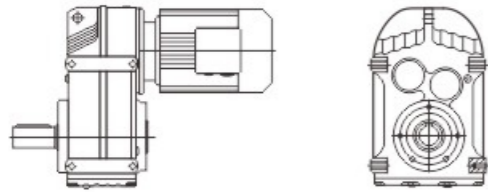
工作机额定功率P2的确定: \*) 按最大扭矩确定额定功率。\*\*) 检验热功率是绝对必要的。

启动次数/每小时	≤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

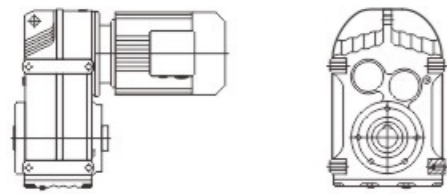
环境温度	10℃	20℃	30℃	40℃	50℃
环境温度系数 $f_3$	0.88	1.00	1.15	1.35	1.65



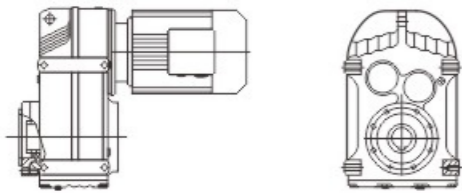
F系列减速机有以下设计方案:  
F series gear units are available in the following designs:



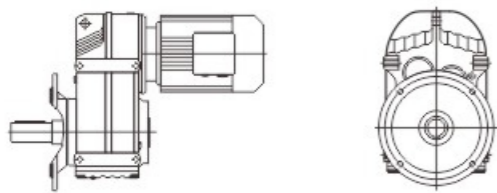
F..Y..  
底脚轴伸式安装平行轴斜齿轮减速机  
Foot-mounted parallel shaft helical gear units with solid shaft



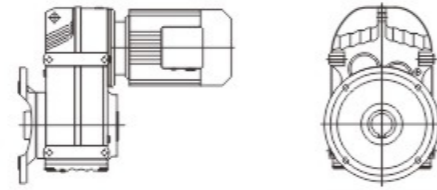
FA..Y..  
空心轴安装平行轴斜齿轮减速机  
Parallel shaft helical gear units with hollow shaft



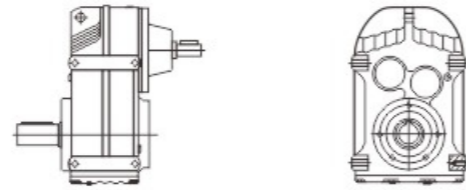
FAZ..Y..  
小法兰空心轴安装平行轴斜齿轮减速机  
Short-flange-mounted parallel shaft helical gear units with hollow shaft



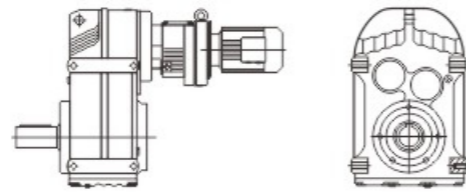
FF..Y..  
法兰轴伸式安装平行轴斜齿轮减速机  
Flange-mounted parallel shaft helical gear units with solid shaft



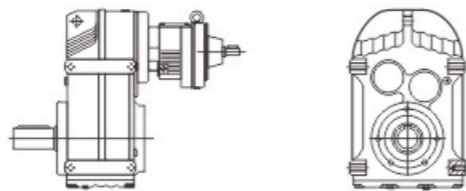
FAF..Y..  
法兰空心轴安装平行轴斜齿轮减速机  
Flange-mounted parallel shaft helical gear units with hollow shaft



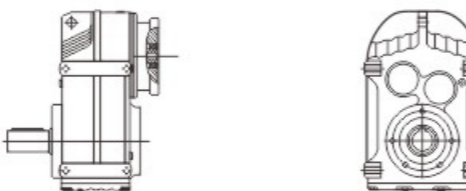
F(FF, FA, FAF, FAZ)S..  
轴输入的平行轴斜齿轮减速机  
Shaft input parallel shaft helical gear units



F(FF, FA, FAF, FAZ)...R...Y..  
组合式平行轴斜齿轮减速机  
Combinatorial parallel shaft helical gear units



F(FF, FA, FAF, FAZ)S...R..  
轴输入的组式平行轴斜齿轮减速机  
Shaft input combinatorial parallel shaft helical gear units

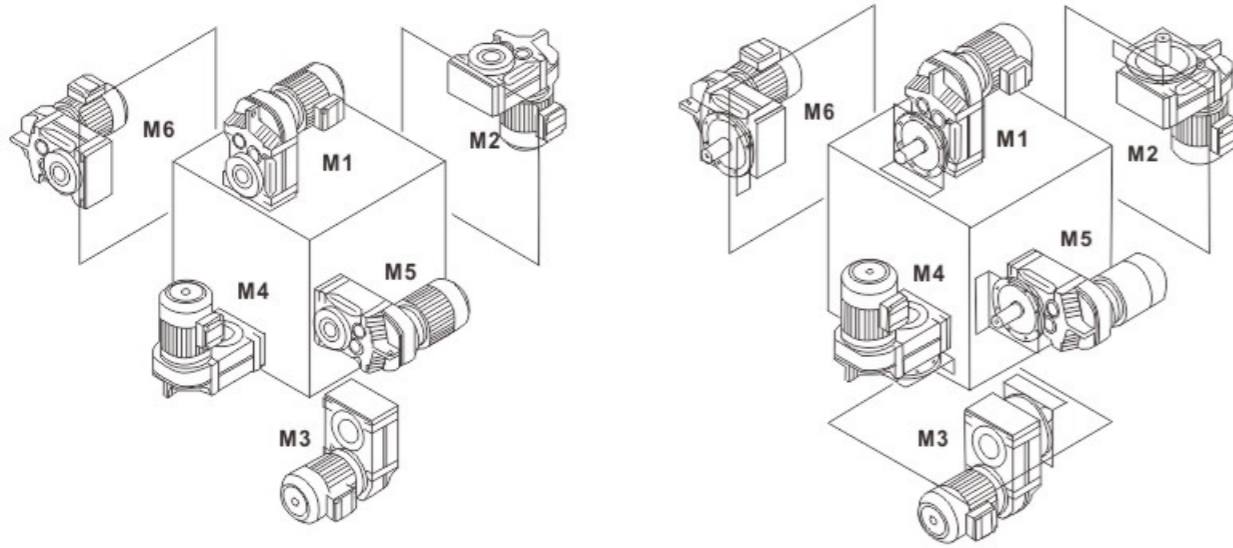


F(FF, FA, FAF, FAZ)...Y..  
电机用户自配或配特殊电机时需加联接法兰  
When equipping the user's motor or the special one, the flange is required to be connected

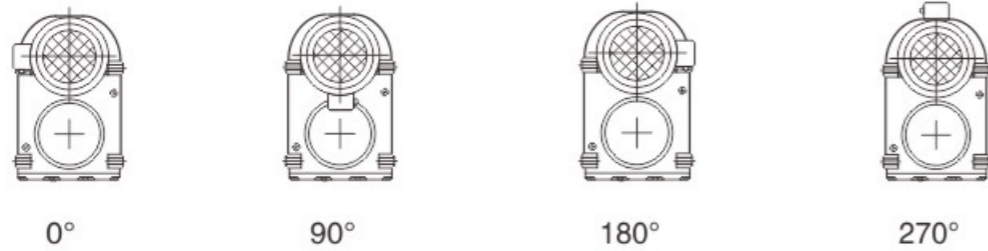
型号与标记:  
Type Designations:

<p>F F 37-Y 0.55-4P-23.88-M1- 270°</p> <p>减速机类型 结构形式 规格 电机代号 电机功率、极数 传动比 安装形式 电机接线盒位置</p>	<p>F F 37-Y 0.55-4P-23.88-M1- 270°</p> <p>Gear units type Structure Size Motor code Motor power, pole Ratio Mounting position Position of the motor thermal box</p>
<p>减速机类型: 平行轴斜齿轮减速机</p>	<p>Gear units type: Parallel shaft helical gear units</p>
<p>结构形式: 普通轴伸式(省略) 轴装式 A 轴伸法兰式 F 轴装法兰式 AF 轴装小法兰式 AZ 普通轴伸式, 轴输入 S 普通轴装式, 轴输入 AS 轴伸法兰式, 轴输入 FS 轴装法兰式, 轴输入 AFS</p>	<p>Structure: Foot-mounted solid shaft output (-) Hollow shaft output A Flange-mounted solid shaft output F Flange-mounted hollow shaft output AF Short-flange-mounted hollow shaft output AZ Foot-mounted solid shaft output, shaft input S Hollow shaft output, shaft input AS Flange-mounted solid shaft output, shaft input FS Flange-mounted hollow shaft output, shaft input AFS</p>
<p>规格: (见选型参数表)</p>	<p>Size: (see selection table)</p>
<p>电机代号: 普通(更新) Y(Y2) 防爆 B 直流 Z 制动 YEJ 多速 D 变频 YVP 电磁调速 YCT 冶金起重 R 变频制动 YVPJ 辊道 G</p>	<p>Motor code: Ordinary(renew) Y(Y2) Flame-proof B Direct current Z Brake YEJ Multi-speed D Variable frequency YVP Electromagnetism speed modulation YCT Hoisting in metallurgy R Variable frequency and brake YVPJ Roller tables G</p>
<p>电机功率、极数: (见选型参数表)</p>	<p>Motor power, pole: (see selection table)</p>
<p>传动比: (见选型参数表)</p>	<p>Ratio: (see selection table)</p>
<p>安装形式: M1、M2、M3、M4、M5、M6、(见第7页)</p>	<p>Mounting position: M1、M2、M3、M4、M5、M6、(see page 7)</p>
<p>电机接线盒位置: 0°、90°、180°、270° (见第7页)</p>	<p>Position of the motor thermal box: 0°、90°、180°、270° (see page 7)</p>

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
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.

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

说明: 1.轴输入型没有电动机的各项内容。

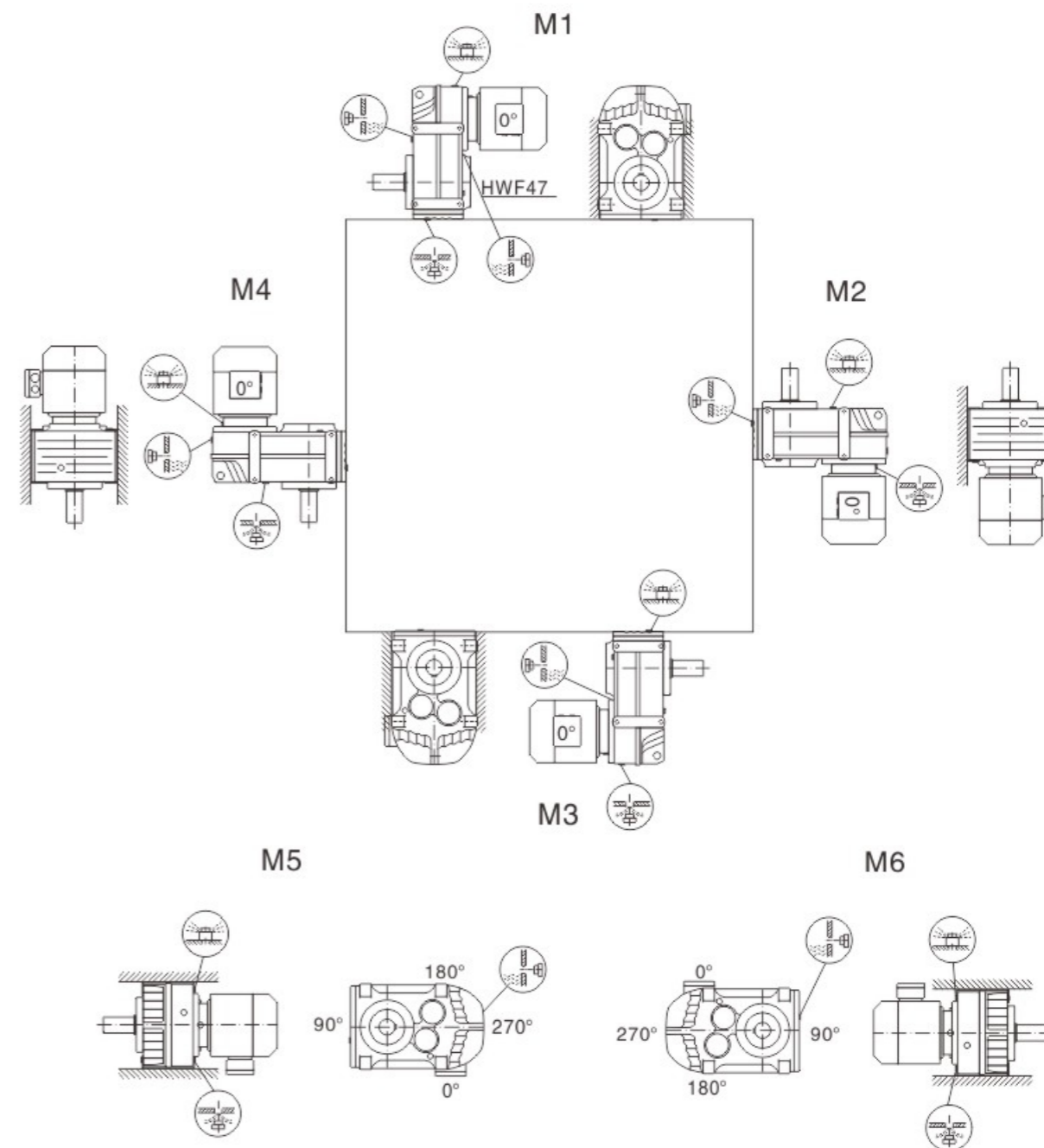
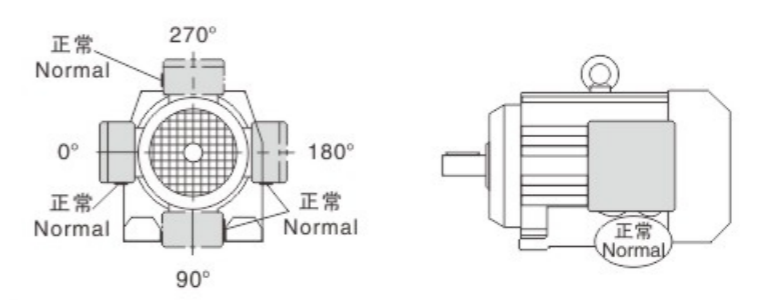
- 2.无特别说明时Y系列电动机供货按IP54防护等级。
- 3.不注明安装形式时, 按安装形式图(见10-12页)中M1安装形式供货。
- 4.不注明接线盒角度时, 按安装形式图(见10-12页)中0度位置供货。
- 5.对输出旋转方向与输入旋转方向有特殊要求的用户, 请与我公司技术部联系。

- Note: 1. The shaft input type does not have all the contents of the motor.
2. Motors of Y series are supplied with protection grade of IP54 unless otherwise specified
  3. The mounting position of M1 as shown in the mounting position example(page 10-12)is the default way when supplying unless otherwise specified.
  4. 0° as shown in the mounting position example(page 10-12) is the default connection box angle when supplying unless otherwise specified.
  5. Please contact our technical supporting department in case there's any special requirements on the output and input rotatory directions.

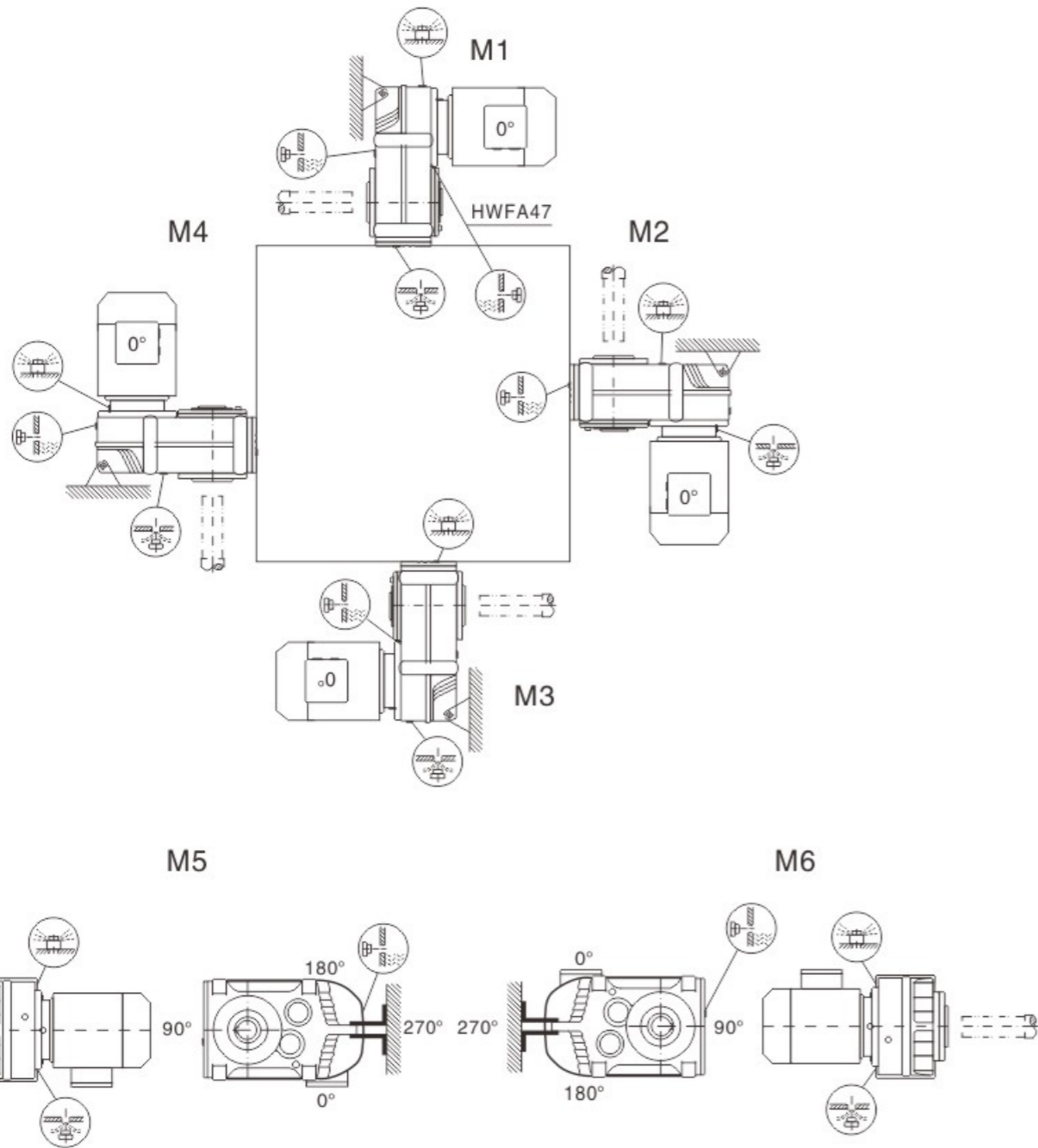
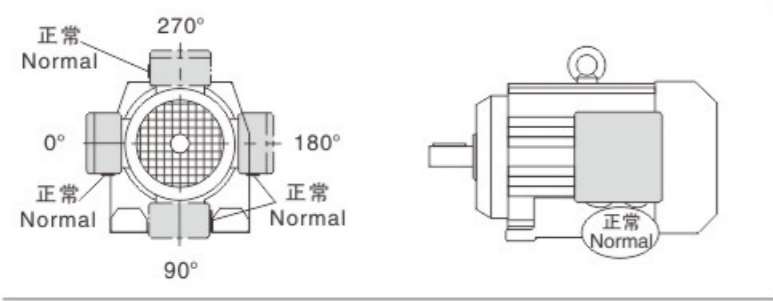
安装形式图释义 Explanation of mounting position example



HWF/HWFAB37-157安装形式图 HWF/HWFAB37-157 Mounting position example



HWFA37-157安装形式图 HWFA37-157 Mounting position example



HWFF/HWFAF/HWFAZ37-157安装形式图 HWFF/HWFAF/HWFAZ Mounting position example

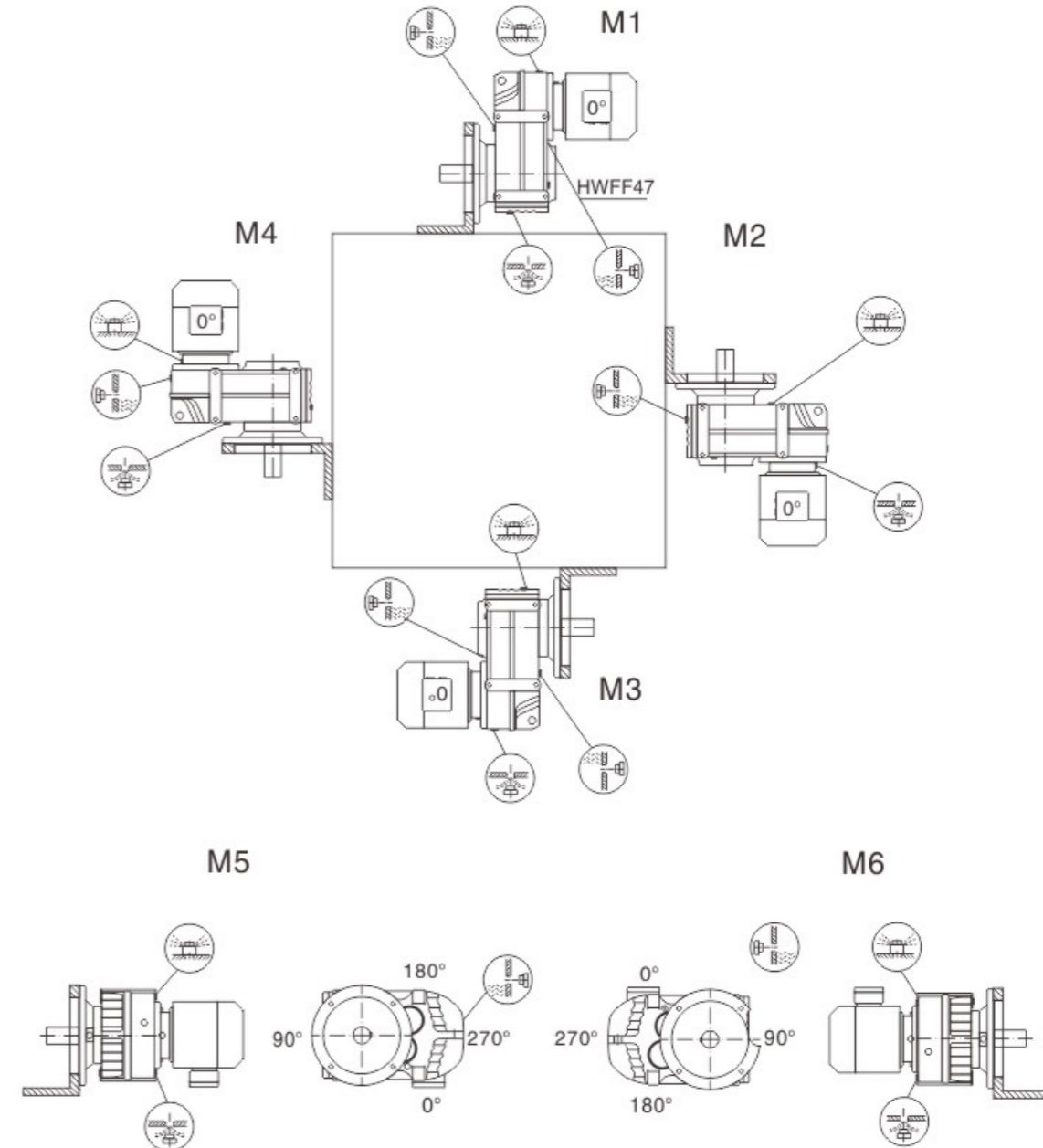
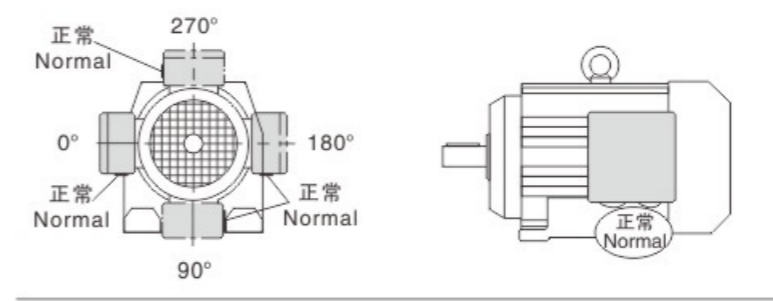


















Table with 7 columns: Output speed, Output torque, Ratio, Permitted overhung load, Service factor, Model, Pole. Rows include 11.0kW, 15.0kW, and 15.0kW sections.

Table with 7 columns: Output speed, Output torque, Ratio, Permitted overhung load, Service factor, Model, Pole. Rows include 15.0kW and 15.0kW sections.

Table with 7 columns: Output speed, Output torque, Ratio, Permitted overhung load, Service factor, Model, Pole. Rows include 18.5kW and 18.5kW sections.

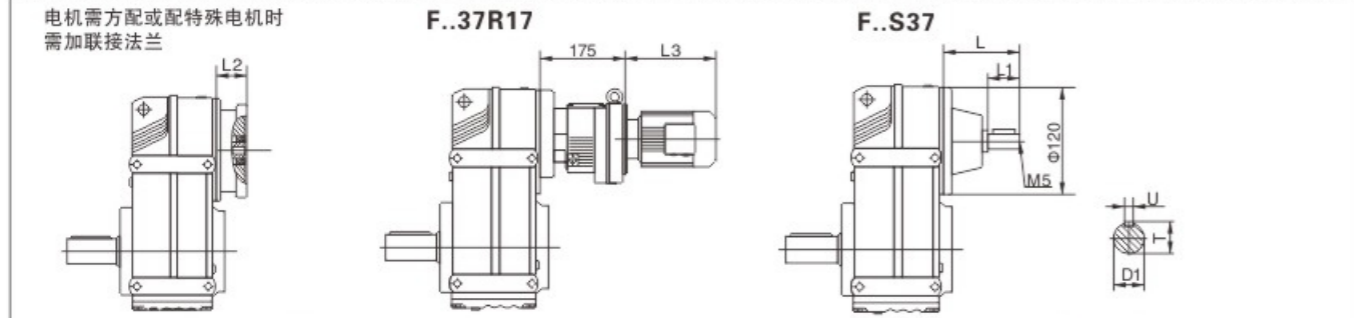
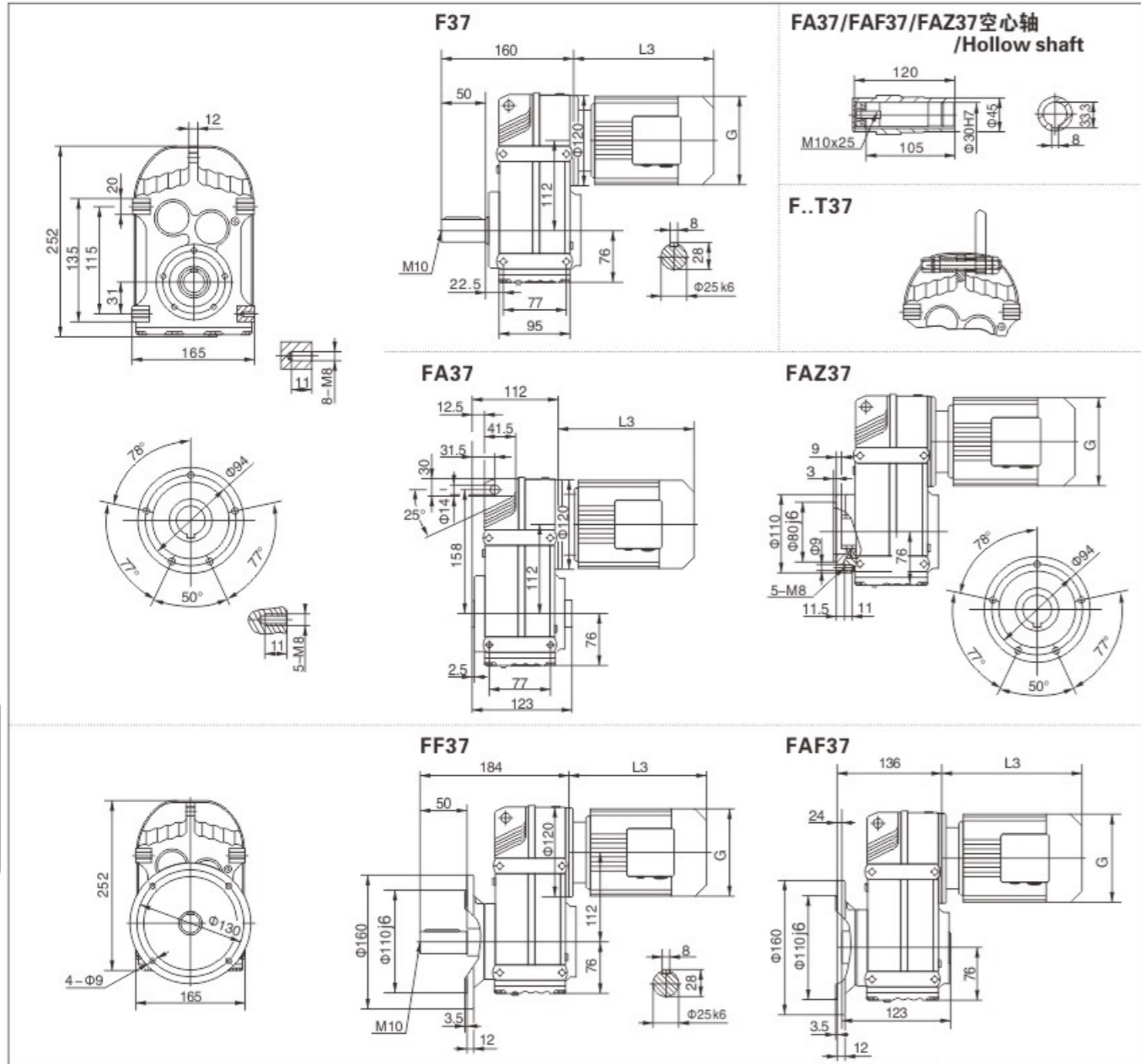
Table with 7 columns: Output speed, Output torque, Ratio, Permitted overhung load, Service factor, Model, Pole. Rows include 22kW and 22kW sections.







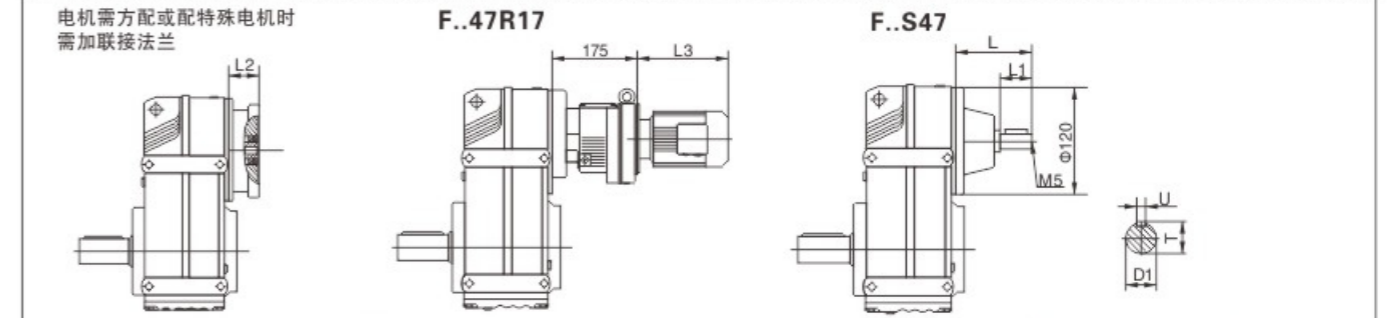
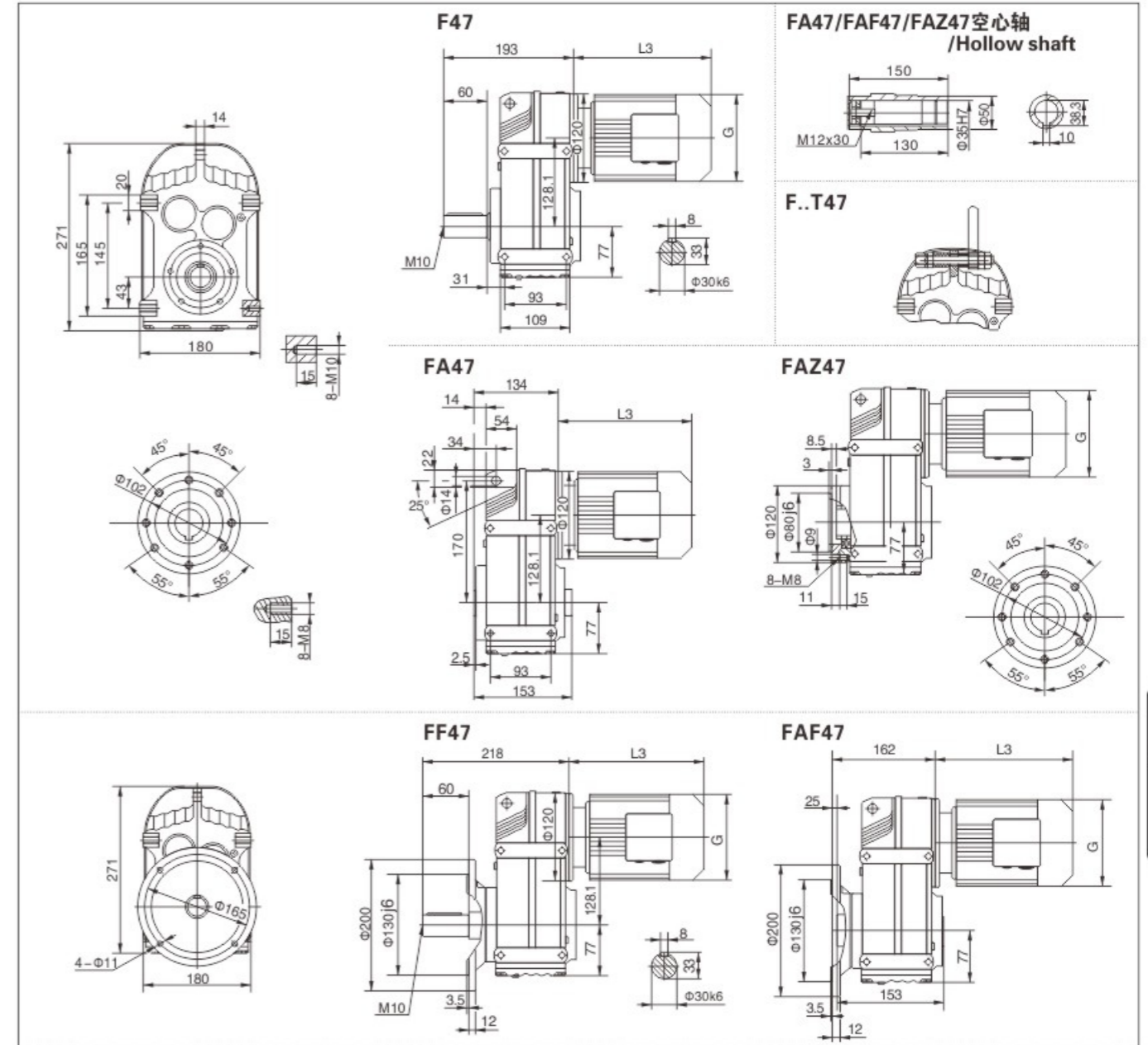




When equipping the user's motor or the special one, the flange is required to be connected.  
注: 详细尺寸见第45-47页  
Note: For details, see pages 45-47

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

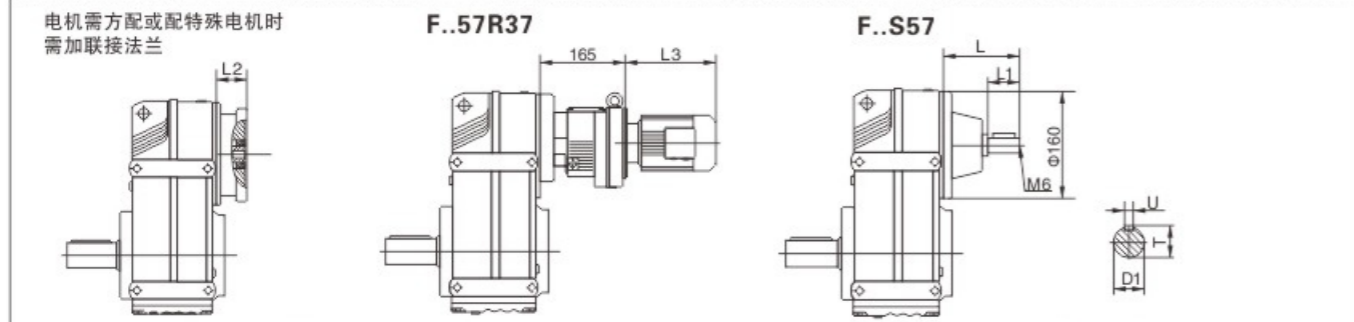
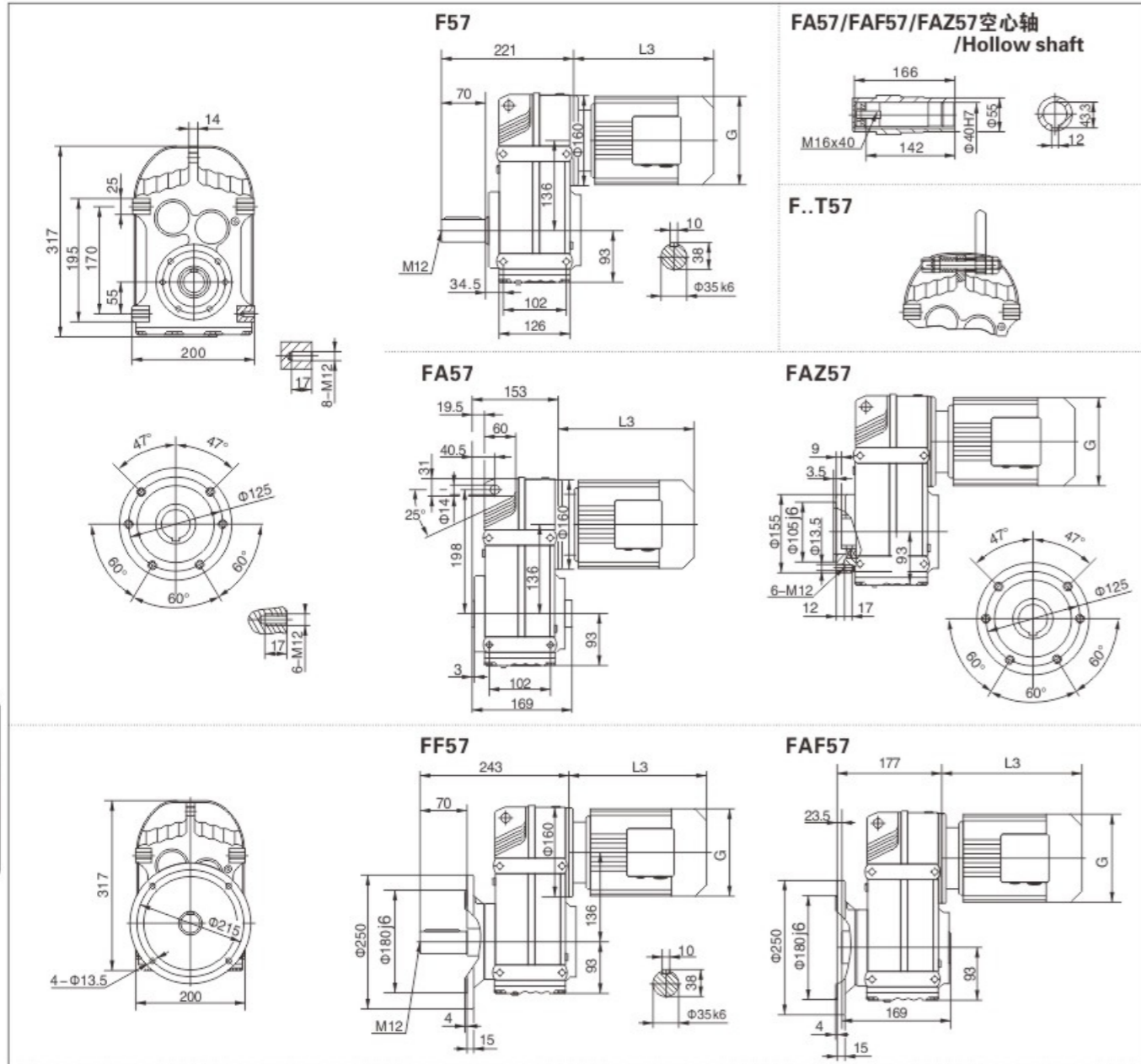
注: 1.以上壳体为通用件, 安装尺寸均可相互参照。 2."F.."表示F、FA、FF、FAF、FAZ。  
Note: 1.The above housings are common parts. The mounting dimensions may consult each other. 2."F.."mean F、FA、FF、FAF、FAZ.



When equipping the user's motor or the special one, the flange is required to be connected.  
注: 详细尺寸见第45-47页  
Note: For details, see pages 45-47

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
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.

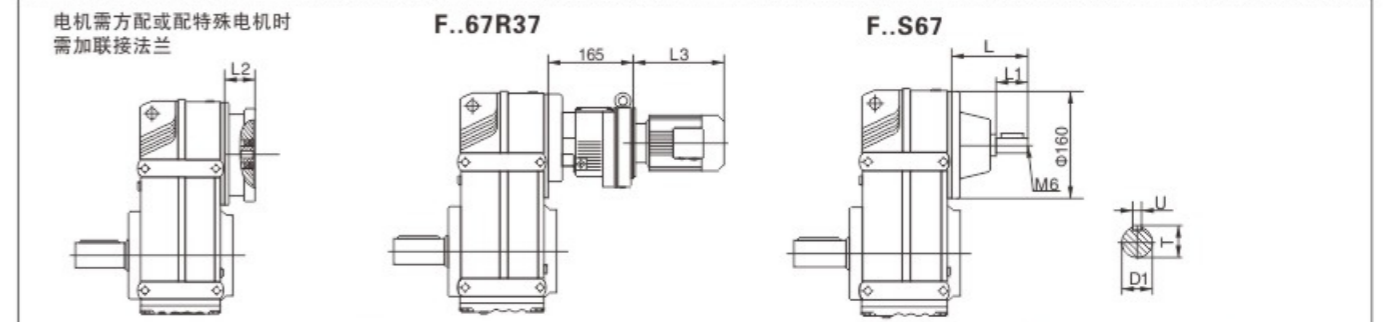
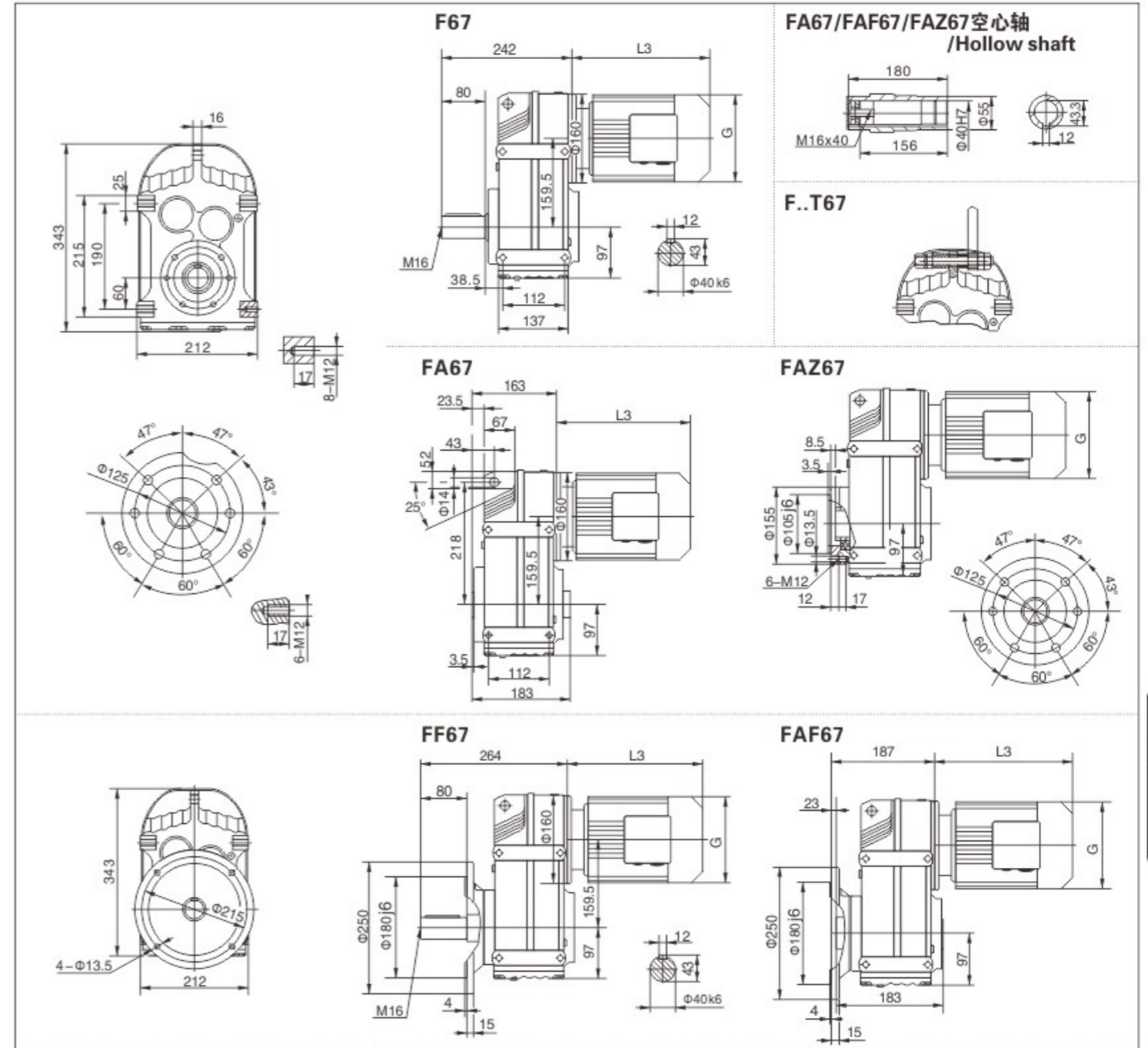


When equipping the user's motor or the special one, the flange is required to be connected.

注: 详细尺寸见第45-47页  
Note: For details, see pages 45-47

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	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.

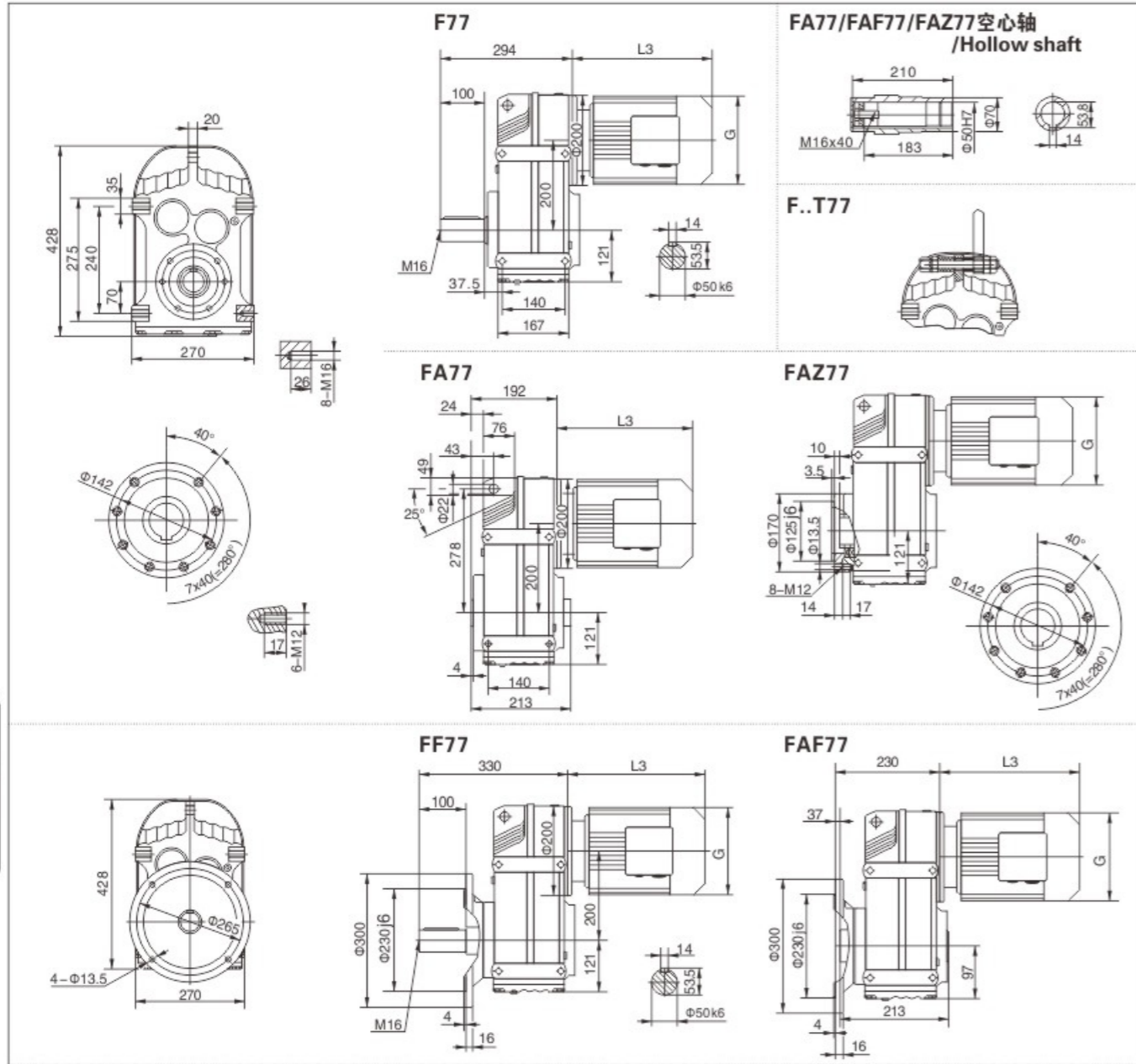


When equipping the user's motor or the special one, the flange is required to be connected.

注: 详细尺寸见第45-47页  
Note: For details, see pages 45-47

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	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.



电机需配或配特殊电机时需加联接法兰

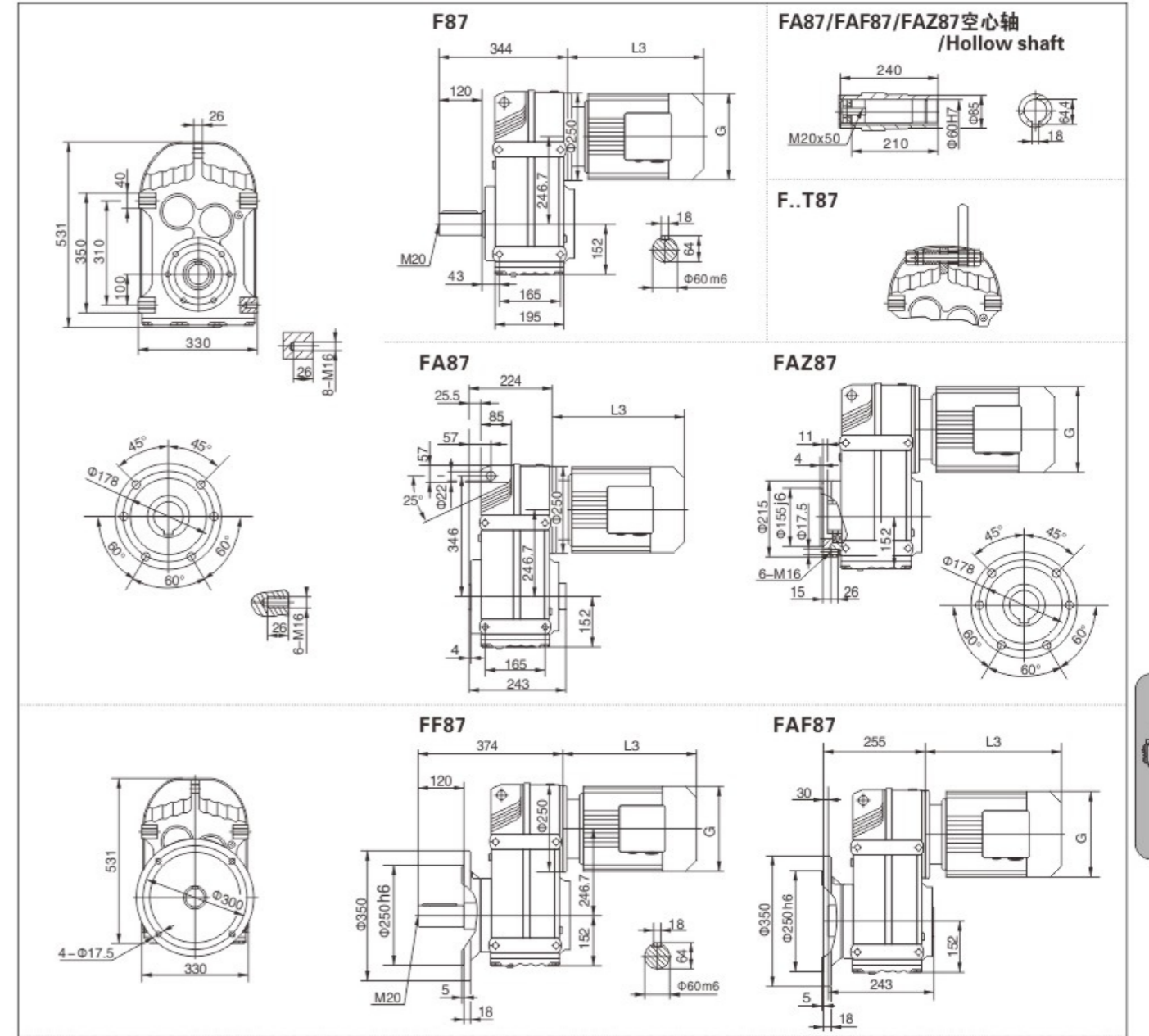
**F..77R37**

**F..S77**

注: 详细尺寸见第45-47页  
Note: For details, see pages 45-47

Y:电机机座号 Motor size	71	80	90S	90L	100	112M	132S	132M	160M
功率/4P Power/(KW)	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3.0	4
L3	233	278	304	328	350	380	425	461	524
G	145	175	195	195	215	240	275	275	330
L2	55	80	80	80	100	100	110	110	126

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.



电机需配或配特殊电机时需加联接法兰

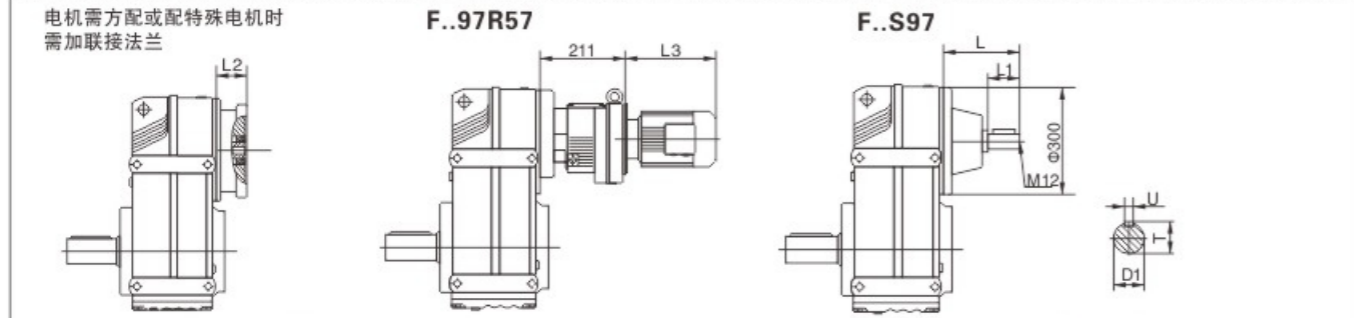
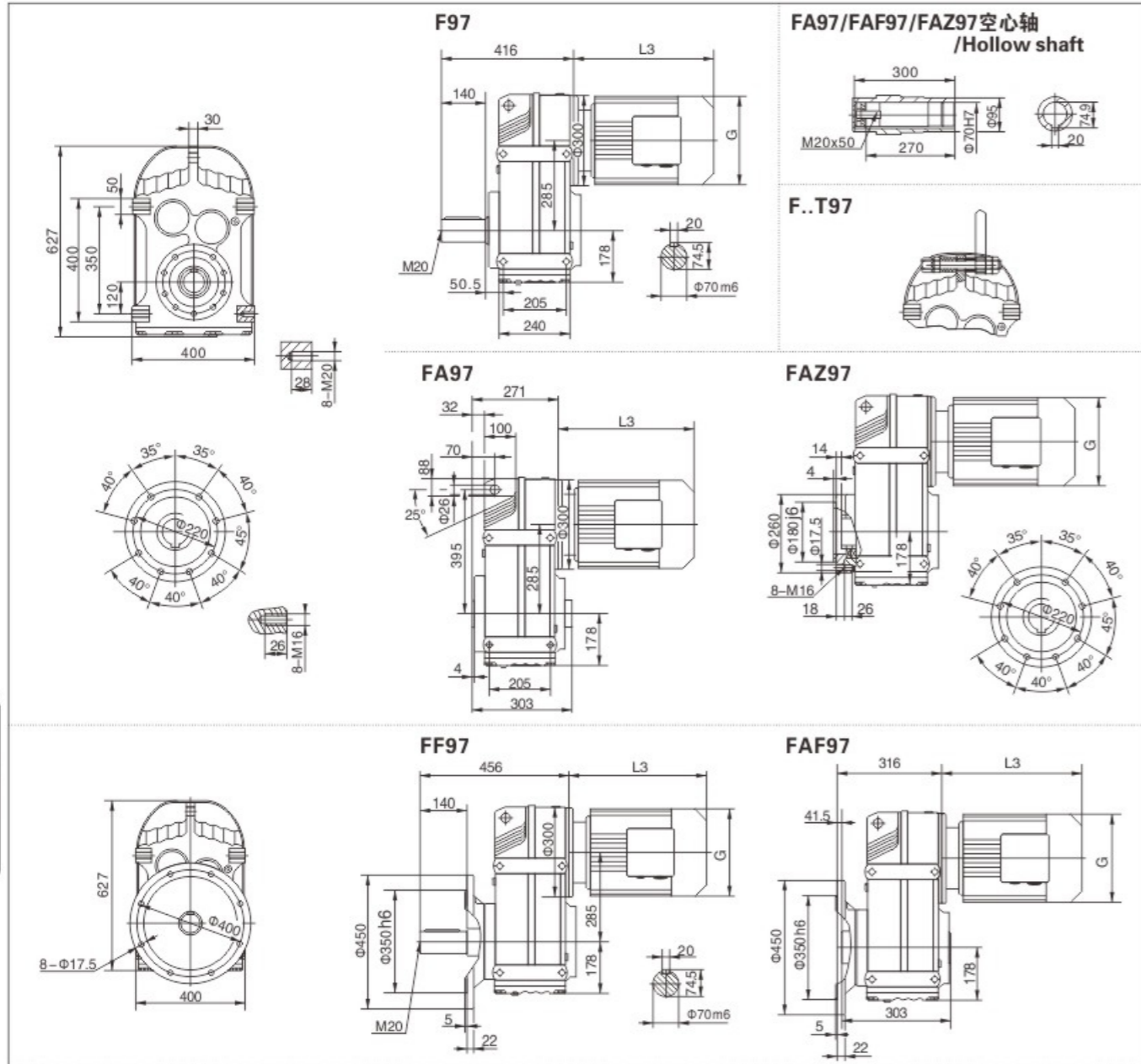
**F..87R57**

**F..S87**

注: 详细尺寸见第45-47页  
Note: For details, see pages 45-47

Y: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

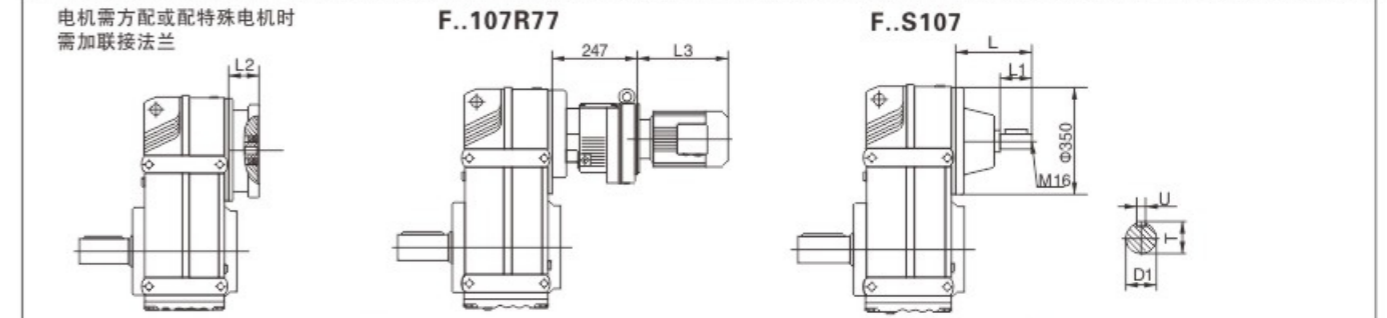
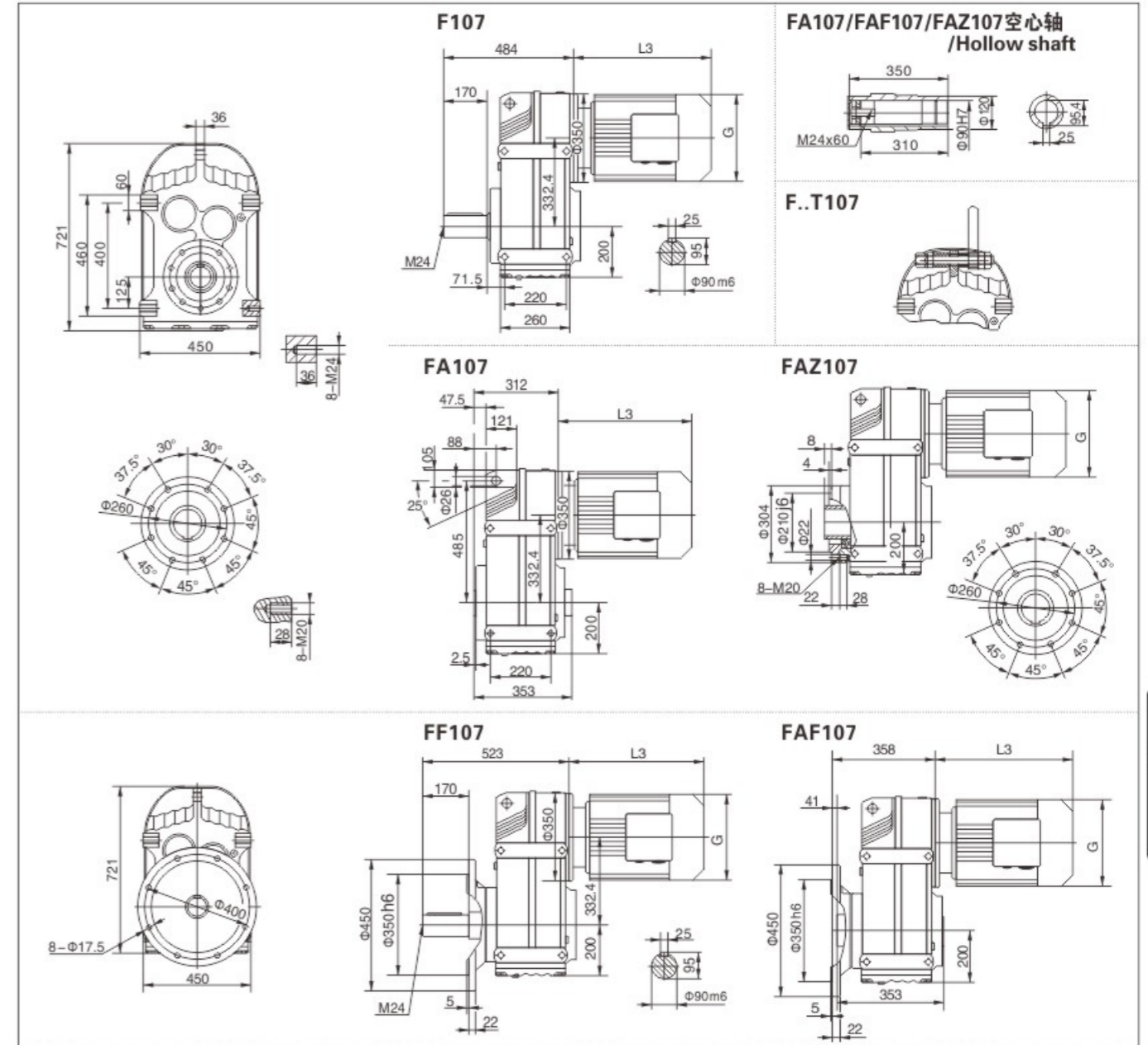
注: 1.以上壳体为通用件, 安装尺寸均可相互参照。 2."F.."表示F、FA、FF、FAF、FAZ。  
Note: 1.The above housings are common parts. The mounting dimensions may consult each other. 2."F.."mean F、FA、FF、FAF、FAZ.



When equipping the user's motor or the special one, the flange is required to be connected. 注: 详细尺寸见第45-47页  
Note: For details, see pages 45-47

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

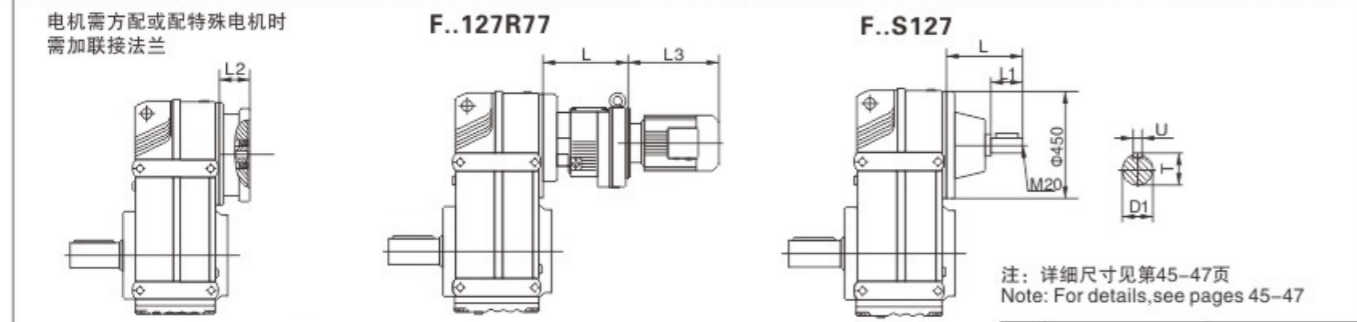
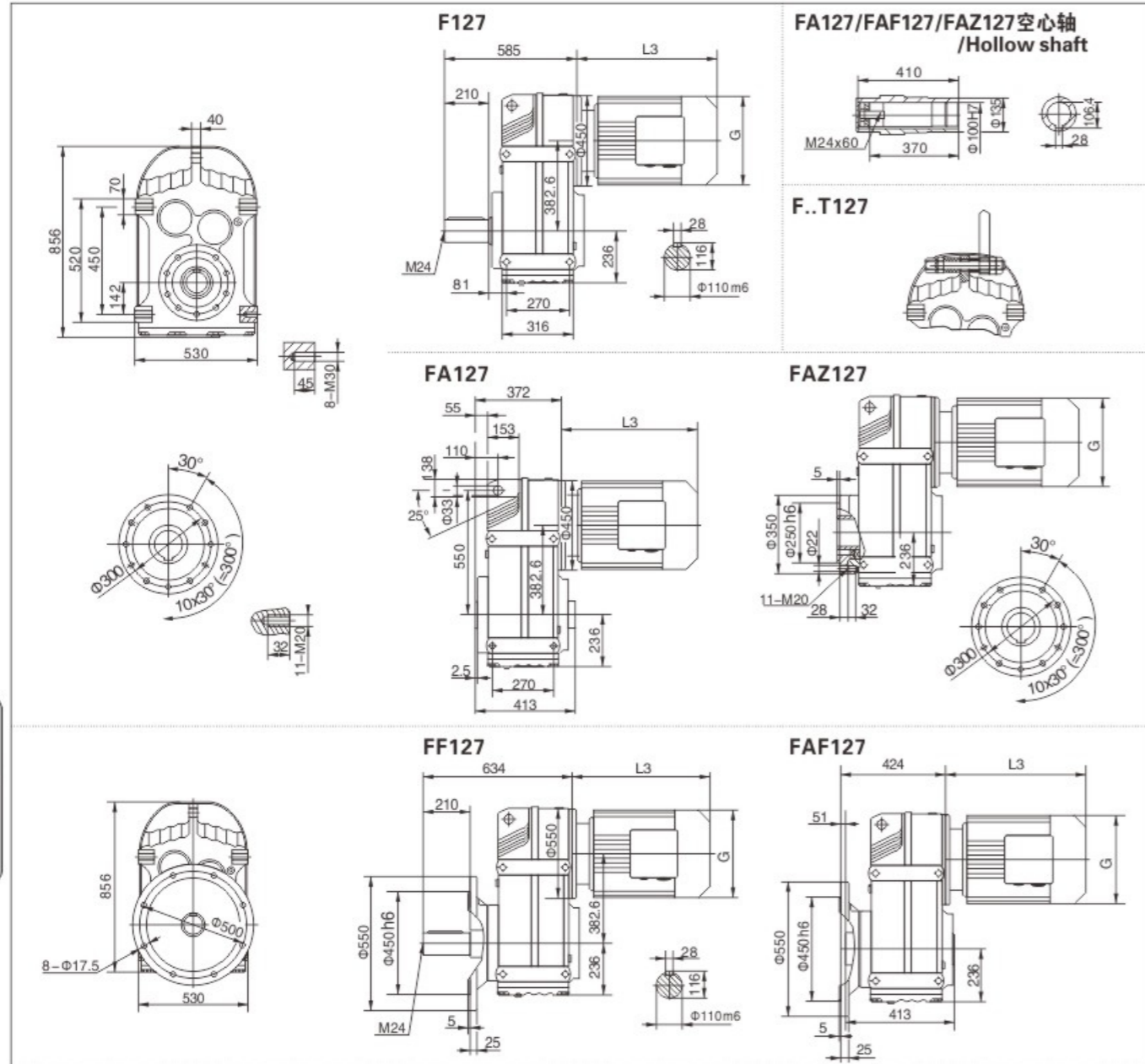
注: 1.以上壳体为通用件, 安装尺寸均可相互参照。 2."F.."表示F、FA、FF、FAF、FAZ。  
Note: 1.The above housings are common parts. The mounting dimensions may consult each other. 2."F.."mean F、FA、FF、FAF、FAZ.



When equipping the user's motor or the special one, the flange is required to be connected. 注: 详细尺寸见第45-47页  
Note: For details, see pages 45-47

Y:电机座号 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
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

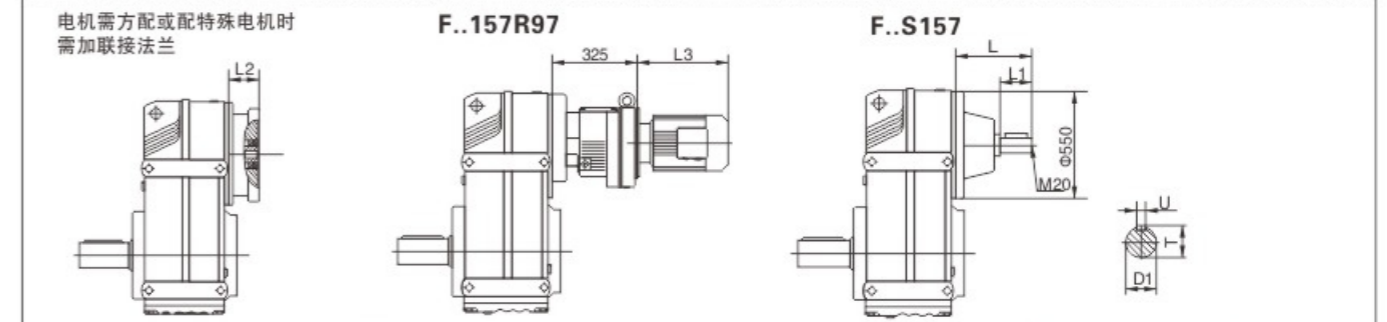
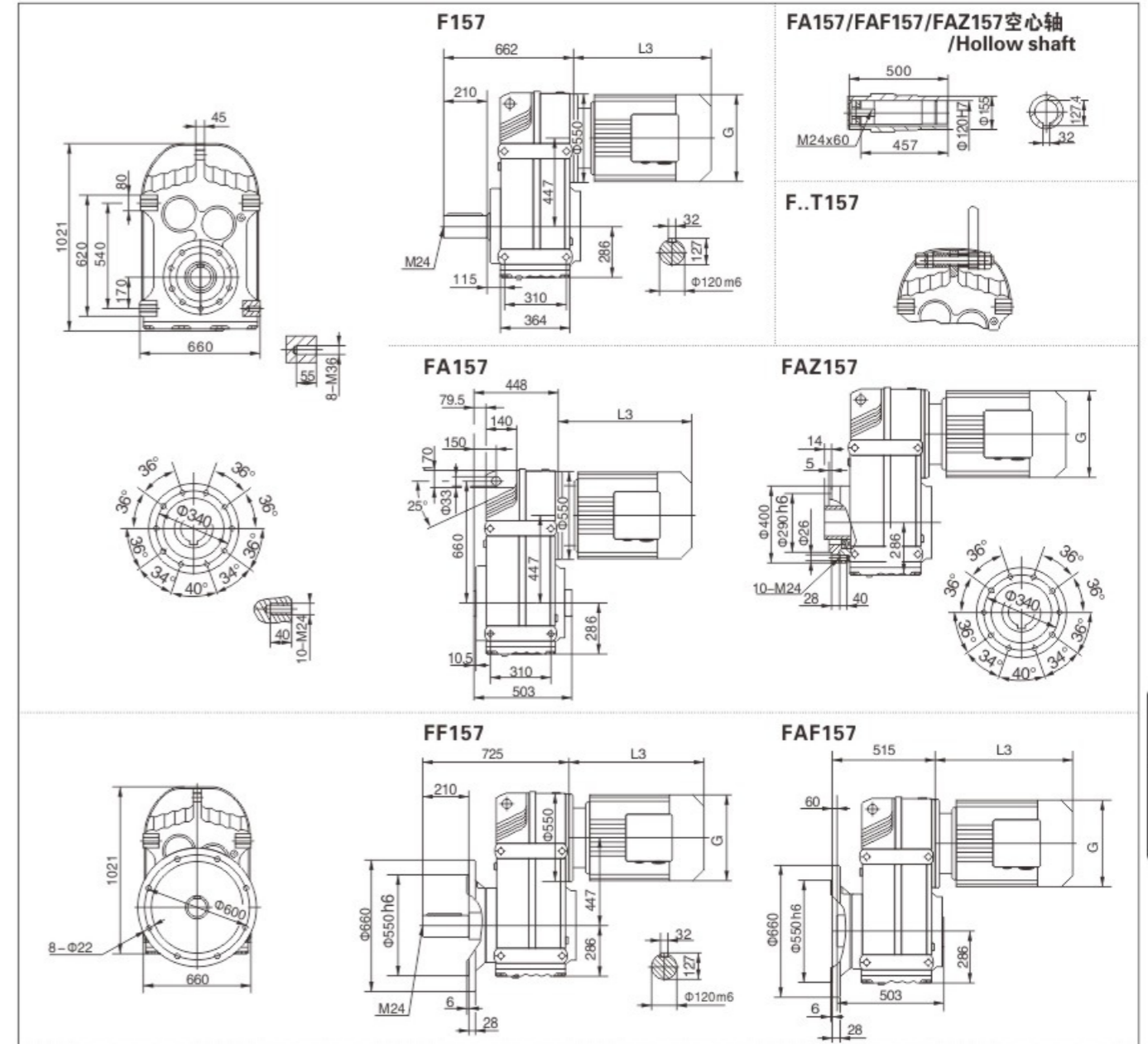
注: 1.以上壳体为通用件, 安装尺寸均可相互参照。 2."F.."表示F、FA、FF、FAF、FAZ。  
Note: 1.The above housings are common parts. The mounting dimensions may consult each other. 2."F.."mean F、FA、FF、FAF、FAZ.



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

	F..127R77				F..127R87			
	L	232	280S	280M	L	232	280S	280M
Y: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	424	567	602	583	616	654	674	696
G	275	330	330	380	380	420	470	470
L2	125	125	125	125	125	147	162	162

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.

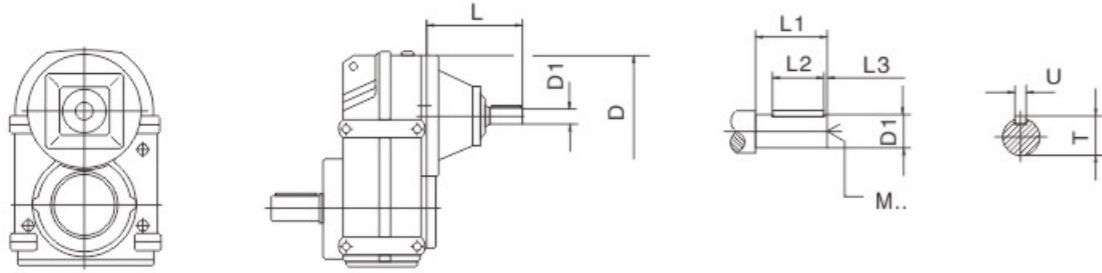


When equipping the user's motor or the special one, the flange is required to be connected.

	F..157R97				F..S157			
	L	325	315M	315L	L	325	315M	315L
Y:电机机座号 Motor size	160M	160L	180M	180L	200	225S	225M	250
功率/4P Power/(KW)	11	15	18.5	22	30	37	45	55
L3	567	602	635	666	642	669	691	770
G	330	330	380	380	420	470	470	510
L2	125	125	125	125	147	145	145	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.

HWF..AD



		D	L	D1	L1	L3	L2	T	U	M
HWF..27 HWF..37 HWF..47	Ad1	120	102	16	40	4	32	18	5	M5
	AD2		130	19	40	4	32	21.5	6	M6
			AD3	159	24	50	5	40	27	8
HWF..57 HWF..67	AD2	160	123	19	40	4	32	21.5	6	M6
	AD3		159	24	50	5	40	27	8	M8
HWF..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
	AD5		292	42	110	10	70	45	12	M16
HWF..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
HWF..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
HWF..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
HWF..127	AD6	450	321	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
	AD9		450	80	160	20	120	84.5	25	M25
	AD10		517	100	200	25	150	104.5	30	M30
	AD11		584	120	240	30	180	124.5	35	M35
HWF..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

HWF..AM..

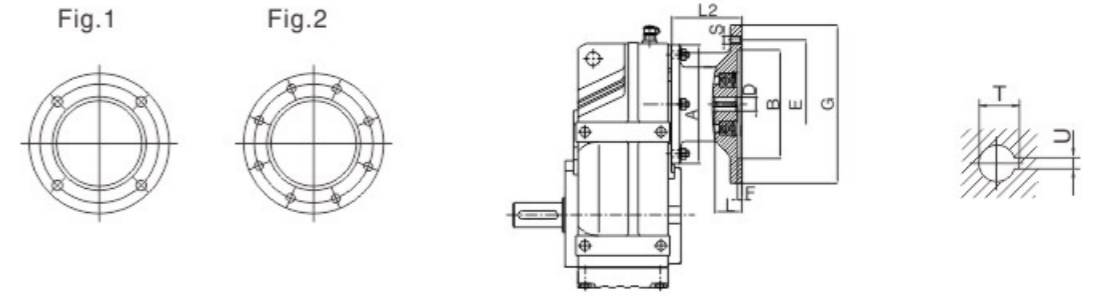


		Fig.	B	E	F	A	G	S	L2	D	L1	T	U
HWF..37 HWF..47	AM63	1	95	115	3.5	120	140	M8	45	11	23	12.8	4
	AM71 <sup>1)</sup>		110	130			92		14	30	16.3	5	
	AM80 <sup>1)</sup>		130	165	4.5		200	M10	80	19	40	21.8	6
	AM90 <sup>1)</sup>						24		50	27.3	8		
HWF..57 HWF..67	AM63	1	95	115	3.5	160	140	M8	45	11	23	12.8	4
	AM71		110	130			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 <sup>1)</sup>		180	215	5		250	M12	100	28	60	31.3	8
	AM112 <sup>1)</sup>		230	265	5		300		110	38	80	41.3	10
HWF..77	AM63	1	95	115	3.5	200	140	M8	45	11	23	12.8	4
	AM71		110	130			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 <sup>1)</sup>		180	215	5		250	M12	100	28	60	31.3	8
	AM112 <sup>1)</sup>												
	AM132S <sup>1)</sup>												
	AM132M <sup>1)</sup>												
AM132ML <sup>1)</sup>	230	265	5	300	110	38	80	41.3	10				
HWF..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	M12	110	38	80	41.3	10
	AM132M												
	AM132ML		250	300	6		350	M16	133	42	110	45.3	12
	AM160 <sup>1)</sup>									48		51.8	14
AM180 <sup>1)</sup>													
HWF..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		250	300	6		350	M16	133	42	110	45.3	12
	AM160									48		51.8	14
	AM180												
	AM200		300	350	7		400	M16	135	55	110	59.3	16
AM225 <sup>1)</sup>	350	400	7	450	143	60	140			64.4		18	



HWF..AM..

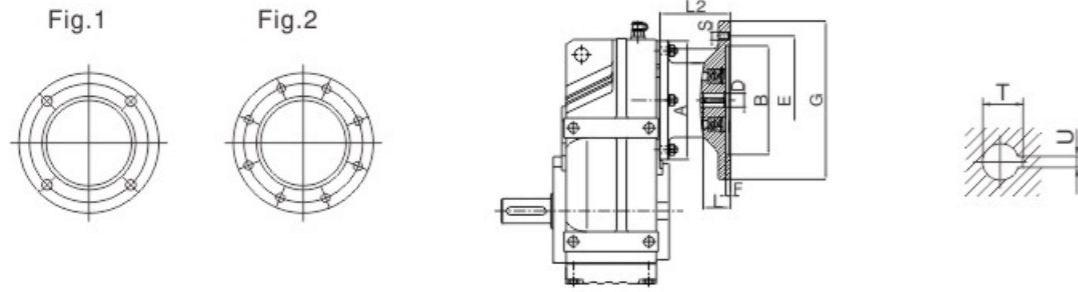
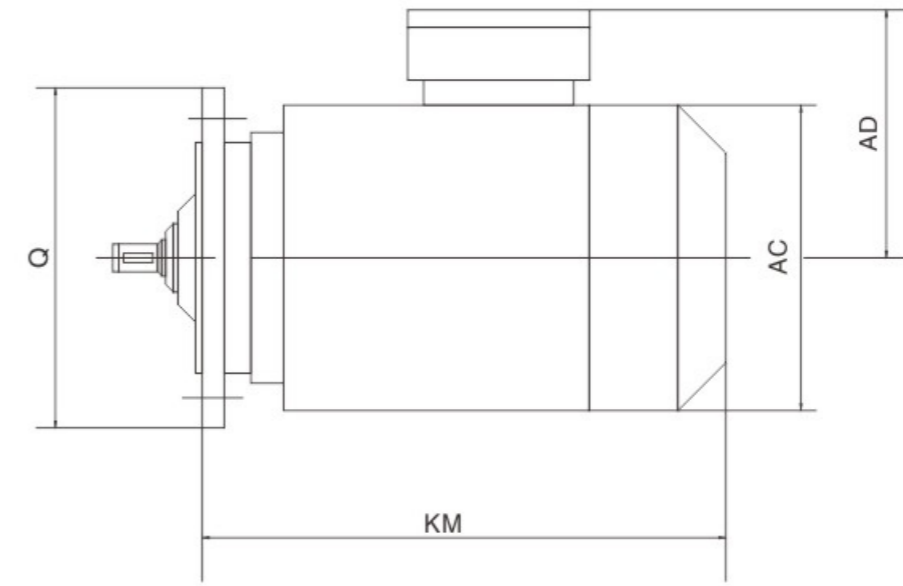


		Fig.	B	E	F	A	G	S	L2	D	L1	T	U			
HWF..107	AM100	1	180	215	5	350	250	M12	100	28	60	31.3	8			
	AM112															
	AM132S AM132M															
	AM132ML		230	265	6		350	300	M16	110	38	80	41.3	10		
	AM160		2	250	300		6	450	350	M16	133	42	48	110	45.3	12
	AM180															
	AM200															
AM225																
HWF..127	AM132S AM132M	1	230	265	5	450	300	M12	125	38	80	41.3	10			
	AM132ML															
	AM160															
	AM180	2	250	300	6		550	350	M16	125	42	48	110	45.3	12	
	AM200															
	AM225															
	AM250															
AM280	2	450	500	7	550	550	M16	162	60	140	64.4	18				
AM200																
AM225																
HWF..157	AM160	1	250	300	6	550	350	M16	125	42	48	110	45.3	12		
	AM180															
	AM200															
	AM225	2	350	400	7		550	450	M16	145	60	140	64.4	18		
	AM250															
	AM280															
HWF..157	AM250	2	450	500	7	550	550	M16	170	65	140	69.4	20			
	AM280															
	AM280															

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	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	Y132ML	400	385	468	423	506	168	275
	160	210	264	279	319										
	200	200	254	269	309										
Y71	120	249	300	299	373	80	140	Y160M	200	520	633	562	697	255	315
	160	244	295	294	373										
	200	238	289	288	363										
Y80	120	271	330	327	418	145	175		250	520	633	562	697		
	160	265	324	321	418										
	200	259	318	315	418										
	250	254	313	310	385										
Y90S (L)	120	300	355	350	440	155	195	Y160L	250	565	678	607	742	255	315
		325	380	375	465										
	160	295	350	345	440										
	320	375	370	465					300	565	678	607	742		

电机型号	Q mm	普通 KM mm	YEJ KM mm	YVP KM mm	YVPJ KM mm	AD mm	AC mm	电机型号	Q mm	普通 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					
Y100	120	355	415	400	495	180	215	Y180M (L)	250	600	685	622	782	280	380			
	160	347	407	392	490					638	723	660	800					
	200	339	399	389	490				300	619	703	641	781					
	250	335	395	380	490					350	581	666	603			762		
	300	329	389	375	452				619		703	641	781					
	350	323	383	370	455				400	581	666	603	762					
Y112	160	380	440	420	520	190	240	Y200	300	665	795	730	859	305	420			
	200	371	431	411	520				350	665	795	730	859					
	250	366	426	406	520				400	654	782	717	852					
	300	361	421	401	470				450	654	782	717	852					
	350	355	415	395	470				550	642	770	705	840					
Y132S	160	420	490	460	580	210	275	Y225S	300	716	858	770	900	335	470			
	200	408	478	448	580				350	680	847	756	886					
	250	403	473	443	580				400	680	847	756	886					
	300	398	468	438	580				450	674	840	750	880					
	350	392	462	432	545				550	669	830	745	875					
	400	385	455	425	543				Y225M	300	741	883	795			925	335	470
	450	369	439	409	543					350	702	872	781			911		
Y132M	160	458	528	498	618	210	275	Y250M	400	702	872	781	911	370	510			
	200	446	516	486	618				450	696	865	775	905					
	250	441	511	481	618				550	691	860	770	900					
	300	436	506	476	618				400	785	932	839	992					
	350	430	500	470	583				450	790	936	831	984					
	400	423	493	463	581				550	785	931	823	976					
	450	407	477	447	581				Y280	400	898	1054	943			1099	408	580
Y132ML	200	408	491	446	529	450	890	1046		835	1091							
	250	403	486	441	524	550	882	1038		927	1083							
	300	398	481	436	519	Y315	660	1130	1286	1175	1331	530	635					
	350	392	475	430	513													

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：

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

### 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:

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.

### 2.3 润滑油型号表/Types of lubrication

	标准 Standard		ISO	SHELL	Mobil MOBIL	bp BP	润滑油类型
	°C -50	0 +100					
HWR.. HWF.. HWK..	-10	+40	VG 220	Shell Omala 220	Mobilgear 630	BP Energol GR-XP 220	矿物油
	-20	+25	VG 150 VG 100	Shell Omala 100	Mobilgear 627	BP Energol GR-XP 100	
	-30	+10	VG 68-46 VG 32	Shell Tellus T 32	Mobil D.T.E. 13M		
	-40	-20	VG 22 VG 15	Shell Tellus T 15	Mobil D.T.E. 11M	BP Energol HLP-HM 15	合成油
	-40	+80	VG 220	Shell Omala 220	Mobil SHC 630		
	-40	+40	VG 150		Mobil SHC 629		
HWS..	-0	+40	VG 680	Shell Omala 680	Mobilgear 636	BP Energol GR-XP 680	矿物油
	-20	+10	VG 150 VG 100	Shell Omala 100	Mobilgear 627	BP Energol GR-XP 100	
	-20	+60	VG 680 <sup>1)</sup>	Shell Tivela S 680		BP Energol GR-XP 680	合成油
	-30	+80	VG 460	Shell Omala 460	Mobil SHC 634		
	-40	+10	VG 150	Shell Omala 150	Mobil SHC 629		
	-25	+40	VG 220 <sup>1)</sup>	Shell Tivela 220	Mobil Glygoyle 30		
	-40	0	VG 32		Mobil Glygoyle 24		

### 2.4 润滑油加注量

规定的加注量为参考值，精确值的变化与级数和传动比有关。请您在加注润滑油时一定要注意油位螺栓所指示的精确油量。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。润滑油量表中列出了安装方式M1~M6的减速器相应的标准参考润滑油注入量值。

### 2.4 Lubricant fill quantity

The specified fill quantities are recommended values. The precise values vary depending on the number of stages and gear ratio. When filling, it is essential to check the oil level plug since it indicates the precise oil capacity. The lubricating oil gauge lists the corresponding standard reference lubricating oil injection values for the reducer of the installation mode M1 ~ M6.

### 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。

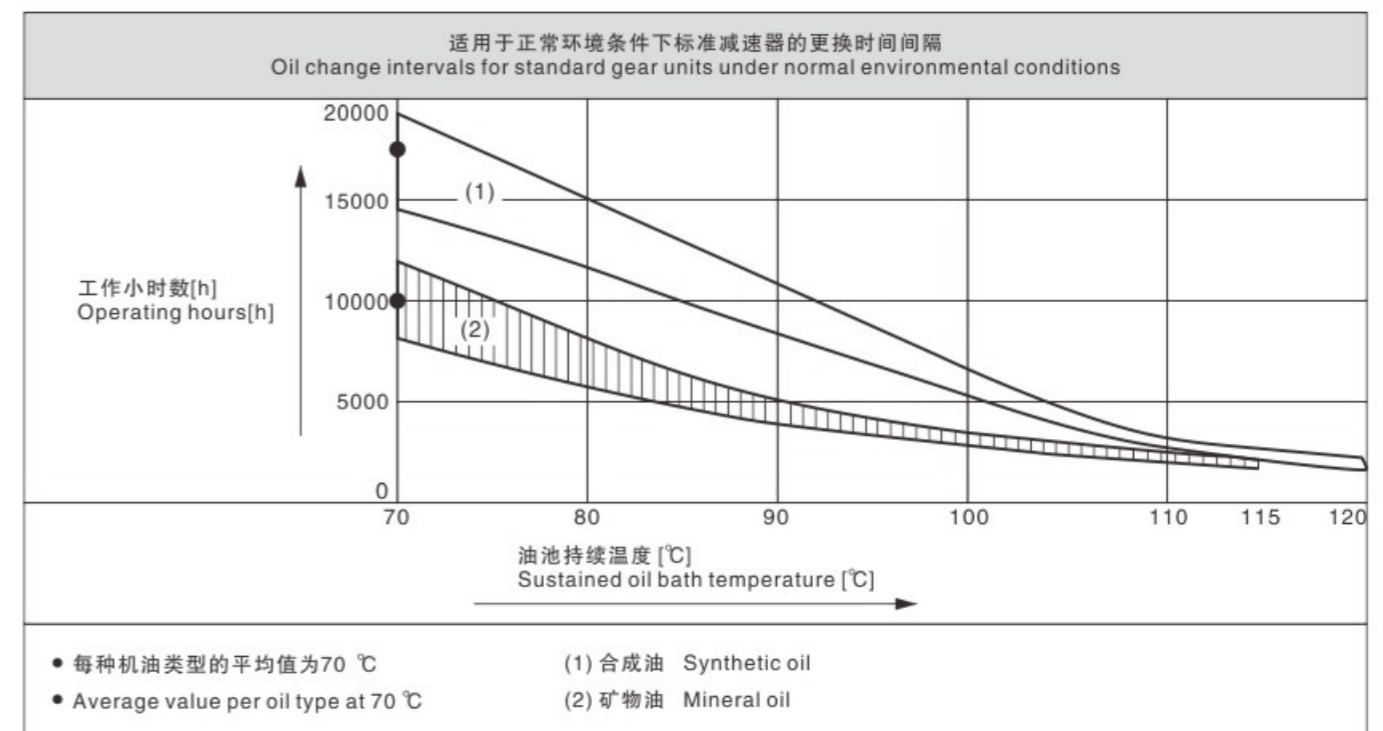
1). For gear units, first oil change should be after about 300 hours(run-in period). The right lotion is require to clean the gear units with care.Never mix the synthetic oil and mineral oil together.

2). Every 3,000 working time, at least every 6 months, you have to check the oil and oil level,the seals visually for leakage. For IEC input gear units, the elastomer should be tested or replaced if necessary.

3). Depending on the working conditions(see chart below), every 3 years at the latest for inspection is needed. Then change the mineral oil and replacing bearing grease.

4). Depending on the working conditions, change the oil seals on output shaft.

5). Once the malfunctions appear, stop disassembling the parts, and firstly please contact the customer service(the information about specification, deliver date, series number, time used, name of machine, machine manufacturer, malfunction problems is required), then take reasonable measures.



## 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。

- 1). Under roof, protected against rain and snow, no shock loads.
- 2). Underlay the block and other material between the ground and equipment.
- 3). The opened but not used gear units should be added with the anti-corrosive oil on its surface, and then return to the packing containers timely.
- 4). Two years or more given regular inspections. Check for cleanliness and mechanical damage as part of the inspection, Check corrosion protection.

## 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。

Please offer the following information when place the orders:

- 1). the model mark of the gear units (type, ratio, power and mounting position).
- 2). Note when ordering: When selecting RF and RXF models, indicate the external diameter of the output flange; When selecting SA, SAF, and SAZ models, indicate the output axis aperture size
- 3). When selecting K, KF, KAF, KAZ, and S, SF, SAF, and SAZ, indicate the direction of the output axis and the output flange(A or B).
- 4). When ordering, it must also indicate the actual installation method(M1 ~ M6) when the reducer is working. There are 6 kinds of installation methods.
- 5). If you are equipped with a straight-line motor, you must indicate the direction of the motor junction box. There are four directions: 0 degrees, 90 degrees, 180 degrees, and 270 degrees.
- 6). gear units are available with "blue/gray" painting optionally. Unless specified, it offers the blue painting as standard.
- 7). quantity ordered.
- 8). other special requirements.
- 9). company, contact and telephone.

## 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 <sup>1)</sup> · 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。

<sup>1)</sup>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。

Problem	Possible cause	Remedy
Unusual, regular running noise	A. Meshing/grinding noise: Bearing damage. B. Knocking noise: Irregularity in the gearing	A. Check the oil, change bearings B. Contact customer service
Unusual, irregular running noise	Foreign bodies in the oil	· Check the oil · Stop the drive, contact customer service
Oil leaking <sup>1)</sup> · From the gear cover plate · From the motor flange · From the motor oil seal · From the gear unit flange · From the output end oil seal	A. Rubber seal on the gear cover plate leaking B. Seal defective C. Gear unit not vented	A. Tighten the bolts on the gear cover plate and observe the gear unit. Oil still leaking: Contact customer service B. Contact customer service C. Vent the gear unit (see "Mounting Positions")
Oil leaking from breaking valve	A. Too much oil B. Drive operated in incorrect mounting position C. Frequent cold starts(oil foams) and/or high oillevel	A. Correct the oil level (see Sec. "Inspection and Maintenance") B. Mount the breather valve correctly (see Sec. "Mounting Positions")and correct the oil level (see "Lubricants")
Output shaft does not turn although the motor is running of the input shaft is rotated	Connection between shaft and hub in gear unit interrupted	Send in the gear unit/gearmotor for repair

<sup>1)</sup>Short-term oil/grease leakage at the oil seal is possible in the run-in phase(24 hours running time).

### 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。

Problem	Possible cause	Remedy
Unusual, regular running noise	Meshing/grinding noise: Bearing damage	Contact our company customer service
Oil leaking	Seal defective	Contact our company customer service
Output shaft does not turn although the motor is running of the input shaft is rotated	Connection between shaft and hub in gear unit interrupted	Contact our company customer service
Change in running noise and/or vibrations occur	A. Annular gear wear, short-term torque transfer through metal contact B. Bolts to secure hub axially are loose.	A. Change the annular gear B. Tighten the bolts
Premature wear in annular gear	A. Contact with aggressive fluids / oil; ozone influence; too high ambient temperatures etc, which can cause a change in the physical properties of the annular gear. B. Impermissibly high ambient/contact temperature for the annular gear; maximum permitted temperature -20℃ to +80℃. C. Overload	Contact our company customer service

### 附件七：减速器负载特征表(参考件)/Charge Characteristic Chart (for reference)

风机类 AIR BLOWERS		卷扬机齿轮传动装置 Hoist gear assembly	A
风机(轴向和径向) Air blower(axial or radial)	A	吊杆起落齿轮传动装置 Derrick gear assembly	B
冷却塔风扇 Fan of cooling tower	B	转向齿轮传动装置 Steering gear assembly	B
引风机 Induced draught fan	B	行走齿轮传动装置 Moving gear assembly	C
螺旋活塞式风机 Rotary piston type fan	B	挖泥机类 LAND DREDGER	
蜗轮式风机 Turbo-fan	A	筒式传送机 Drum-type conveyer	C
建筑机械类 CONSTRUCTION MACHINERY		筒式转动机 Drum-type rotation wheel	C
混凝土搅拌机 Concrete mixer	B	挖泥头 Dredger head	C
卷扬机 Hoist	B	机动绞车 Powered crab	B
路面建筑机械 Road building machinery	B	泵 Pump	B
钻孔机 Boring mill	B	泵转向齿轮传动装置 Pump turning gear assembly	B
化工机械类 CHEMICAL MACHINERY		行走齿轮传动装置(履带) Moving gear assembly (apron wheel)	C
搅拌机(液体) Mixer (liquid)	A	行走齿轮传动装置(铁轨) Moving gear assembly (track)	B
搅拌机(半液体) Mixer (half liquid)	B	食品工业机械类 FOODSTUFF PROCESSING MACHINERY	
离心机(重型) Centrifuge(heavy)	B	灌注及装箱机器 Placer or box filler	A
离心机(轻型) Centrifuge(light)	A	甘蔗压榨机 Cane crusher	A
冷却滚筒** Cooling rolling drum	B	甘蔗切断机 Cane cutter	B
干燥滚筒** Dry rolling drum	B	甘蔗粉碎机 Cane crusher	C
搅拌机 Mixer	B	搅拌机 Mixer	B
压缩机类 COMPRESSOR		酱状物吊筒 Paste bucket	B
活塞式压缩机 Piston type compressor	C	包装机 Packager	A
涡轮式压缩机 Turbo-compressor	B	糖甜菜切断机 Beet slicer	B
传送运输机类 TRANSMISSION FREIGHTER		糖和甜菜清洗机 Beet washing machine	B
平板传送机 Pan conveyer	B	发动机及转换器类 MOTOR AND CONVERSION EQUIPMENTS	
平衡块升降机 Balance lifter	B	频率转换器 Frequency converter	C
槽式传送机 Trough conveyer	B	发动机 Motor	C
带式传送机(大件) Ribbon conveyer (large piece)	C	焊接发动机 Welding motor	C
带式传送机(碎料) Ribbon conveyer (small piece)	B	洗衣机类 WASHING MACHINE	
筒式面粉传送机 Drum-type flour conveyer	A	滚筒 Rolling drum	B
链式传送机 Chain conveyer	B	洗衣机 Washing machine	B
环式传送机 Ring type conveyer	B	金属滚轧机类 METAL ROLLER MACHINE	
货物升降机 Lifter	B	钢坯剪断机** Steel cutter	C
卷扬机 Hoist	B	链式输送机** Chain conveyer	B
连杆式传送机 Crank-connecting conveyer	B	冷轧机** Cold mill	C
载入升降机 Lifter	B	连铸成套设备 Continuous casting equipments	B
螺旋式传送机 Worm conveyer	B	冷床** Cold bed	B
钢带式传送机 Steel-band conveyer	B	剪料机头** Cropper	C
链式槽型传送机 Chain reed-tpe conveyer	B	交叉转变输送机** Cross steering transmitt	B
绞车运输机 Crab freighter	B	除锈机** Deruster	C
起重机类 HOIST		重型和中型板轧机** Heavy and medium steel mill	C
转臂式起重传动传动齿轮装置 Bracket swing gear assembly	B	棒坯切轧机** Bar mill	C

棒坯转动机械类 BAR TRANSMISSION EQUIPMENTS		泵类 PUMPS	
棒坯推料机 Bar pusher	B	离心泵(稀液体) Centrifugal pump(thin liquid)	A
推床 Push bed	B	离心泵(半液体) Centrifugal pump(half liquid)	B
剪板机** Shears	C	活塞泵 Displacement pump	C
板材摆升降台** Lumber elevator platform	B	柱塞泵 Plunger pump	C
轧辊调整装置 ROLL ADJUSTING EQUIPMENTS		压力泵 Force pump	C
辊式矫直机 Roller leveling machine	B	塑料机械类 PLASTIC EQUIPMENTS	
轧钢机辊道(重型) Mill rolling way (heavy)	C	压光机** Glazing press	B
轧钢机辊道(轻型) Mill rolling way (light)	B	挤压机** Ejecting press	B
薄板轧机** Sheet rolling mill	C	螺旋压出机** Spiral extruding machine	B
修整剪切机** Trimming shears	B	混合机** Mixing machine	B
焊管机 Pipe welder	C	橡胶机械类 RUBBER EQUIPMENTS	
焊管机(带材和线材) Soldering machine(belt material and wire rod)	B	压光机** Glazing press	B
线材拉拔机 Wire drawbench	B	挤压机** Ejecting press	C
金属加工机床类 METAL PROCESSING MACHINE TOOLS		混合搅拌机** Mixing stir machine	B
动力轴 Power shaft	A	捏合机 Kneading machine	B
锻造机** Forging machine	C	滚压机** Roller machine	C
锻锤 Drop hammer	C	石料、瓷土料加工机械类 STONE PORCELAIN CLAY PROCESSING EQUIPMENTS	
机床及辅助装置 Machine tool and necessary	A	球磨机 Ball crusher	B
机床及主要传动装置 Machine tool and main driving equipment	B	挤压机** Ejecting press and breaker	C
金属刨床 Metal facing machine	C	破碎机 Breaker	C
板材矫直机床 Plate-leveling machine tool	C	压砖机 Brick press	C
冲床 Backing-out punch	C	锤料破碎机 Beating crusher	C
冲压机床 Press machine tool	C	转炉** Converter	C
剪床 Cutting machine	B	筒型磨机** Cylinder mill	C
薄板弯曲机床 Sheet bending machine tool	B	石油工业机械类 PETROLEUM PROCESSING MACHINERY	
石油工业机械类 PETROLEUM PROCESSING MACHINERY		纺织机械类 TEXTILE MACHINERY	
输油管油泵** Pump of oil pipe line	B	送料机 Feeding machine	B
转子钻井设备 Rotary drilling equipment	C	织布机 Loom machine	B
制纸机械类 PAPERING MACHINE		印染机 Dyeing machine	B
压光机** Glazing press	C	精制筒 Purified drum	B
多层纸板机** Multilayer paper board machine	C	威罗机 Welon machine	B
干燥滚筒** Drying cylinder	C	水处理设备类 WASTER TREATMENT EQUIPMENTS	
上光滚筒** Glazing cylinder	C	鼓风机** Air blast	B
搅浆机** Masher	C	螺杆泵 Screw pump	B
搅浆擦碎机** Mashing and breaking machine	C	木料加工机床 WOOD PROCESSING MACHINE TOOL	
吸水滚** Suction roll	C	剥皮机 Barker	C
潮纸滚压机** Wet paper roller machine	C	刨床 Facing machine	B
吸水滚压机木** Water absorbing roller machine	C	锯床 Saw bench	C
威罗机 Welon machine	C	木材加工机床 Wood processing machine tool	A

注：A-均匀冲击负责；B-中等冲击负责；C-重冲击负责；\*\*-用于24小时工作制。  
Note: A-Uniform load; B-Moderate shock load; C-Heavy shock load; \*\*-for 24 hour system.

附件八：减速机重量 Gear motor weights  
减速机重量 Gear Reducer weights

Gear reducer weights	Kg	Gear reducer weights	Kg	Gear reducer weights	Kg	Gear reducer weights	Kg	Gear reducer weights	Kg
RX57	9	R..27	4	R..87	55	F27	6.5	F57	25
RXF57	11	R..27F	4	R..87F	63	FA27	6	FA57	24
RX67	12	R..37	10	R..97	100	FF27	8	FF57	31
RXF67	16	R..37F	12	R..97F	118	FAF27	7	FAF57	30
RX77	20	R..47	14	R..107	130	F37	13	F67	31
RXF77	24	R..47F	14	R..137	235	FA37	12	FA67	27
RX87	35	R..57	20	R..147	360	FF37	15	FF67	37
RXF87	40	R..57F	24	R..167	605	FAF37	14	FAF67	35
RX97	59	R..67	25			F47	18	F77	55
RXF97	66	R..67F	29			FA47	17	FA77	50
RX107	88	R..77	30			FF47	21	FF77	66
RXF107	103	R..77F	36			FAF47	20	FAF77	58

Gear reducer weights	Kg	Gear reducer weights	Kg	Gear reducer weights	Kg	Gear reducer weights	Kg	Gear reducer weights	Kg
F87	96	F127	401	K37	12	K67	30	K97	150
FA87	90	FA127	365	KF37	15	KF67	36	KF97	171
FF87	112	FF127	447	FA37	11.5	FA67	37	FA97	130
FAF87	105	FAF127	401	KAF37	15	KAF67	34	KAF97	156
F97	157	F157	632	K47	19	K77	54	K107	260
FA97	150	FA157	610	KF47	22.5	KF77	62	KF107	271
FF97	190	FF157	740	KA47	18	KA77	46	KA107	231
FAF97	171	FAF157	670	KAF47	21	KAF77	55	KAF107	265
F107	241			K57	24	K87	90	K127	410
FA107	225			KF57	29	KF87	100	KF127	452
FF107	269			KA57	22	KA87	78	KA127	381
FAF107	245			KAF57	28	KAF87	91	KAF127	419

减速电机重量 Gear motor weights  
减速机重量 Gear Reducer weights

Gear reducer weights	Kg	Gear reducer weights	Kg	Gear reducer weights	Kg	Gear reducer weights	Kg	Motor weights	Kg
K157	635	S37	6	S67	25	S97	140	DS63S2	6.5
KF157	715	SF37	8	SF67	32	SF97	171	DS63M2	6.8
KA157	603	SA37	6	SA67	26	SA97	135	DS63L2	7.3
KAF157	660	SAF37	7.5	SAF67	31	SAF97	160	DS71M2	9.1
K167	1035	S47	10	S77	45			DS80S2	11.5
KH167	1000	SF47	14	SF77	55			DS80M2	14.3
K187	1615	SA47	11	SA77	45			DS90M2	18.4
KH187	1550	SAF47	13	SAF77	52			DS90L2	21.5
		S57	14	S87	80			DS100M2	26
		SF57	18	SF87	101			DS112M2	41.5
		SA57	14	SA87	76			DS132S2	44
		SAF57	17	SAF87	94			DS132M2	60

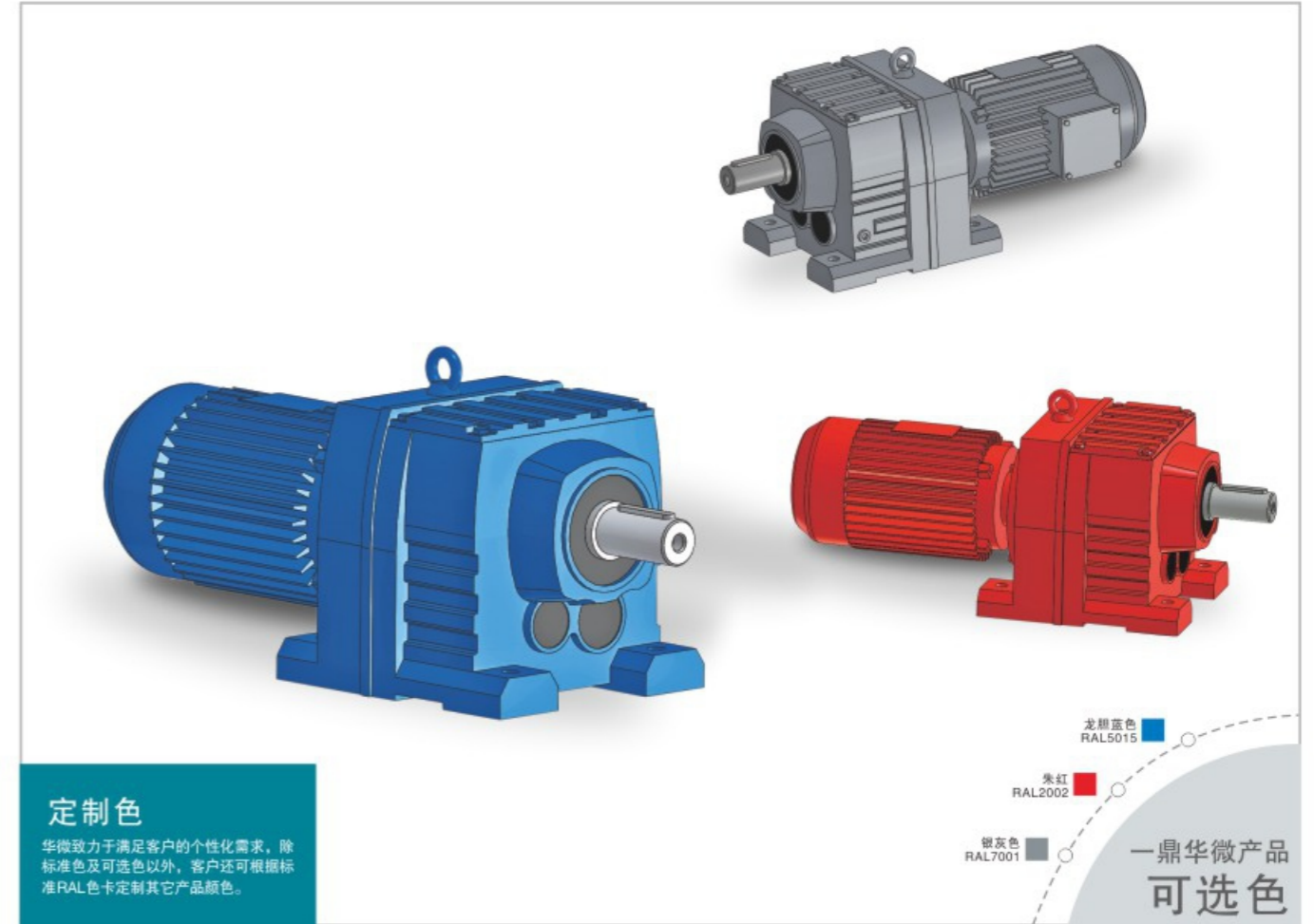
Motor weights	Kg	Motor weights	Kg	Motor weights	Kg	Motor weights	Kg	Motor weights	Kg
DS160S2	80	DS71S4	7.8	DS180S4	122	DS71M6	9.1	DS200L6	225
DS160M2	106	DS71M4	9.1	DS180M4	141	DS80S6	11.5	DS225M6	280
DS160L2	114	DS80S4	11.5	DS180L4	152	DS80M6	14.3	DS250M6	378
DS180M2	168	DS80M4	14.2	DS200L4	260	DS90L6	21.3	DS280S6	475
DS200L2	236	DS90M4	18.4	DS225S4	295	DS100M6	26	D280M6	541
DS225M2	288	DS90L4	21.5	DS225M4	315	DS100L6	41.5		
D250M2	382	DS100M4	26	DS250M4	400	DS112M6	41.5		
D280S2	494	DS112M4	41.5	DS280S4	515	DS132S6	44		
DS280M2	550	DS132S4	44	DS280M4	601	DS160S6	80		
DS63S4	6.2	DS132M4	60	DS63M6	6.6	DS160M6	92		
DS63M4	6.5	DS160S4	80	DS63L6	7.2	DS180M6	126		
DS63L4	7.5	DS160M4	92	DS71S6	7.8	DS180L6	169		

注：减速机重量表中重量值为平均各种速比重量的平均值，需要特定速比时精确值及减速机附带其它输入输出模块的重量值，请咨询本公司。

Notes: The weight of reducers in the table is the average weight for each ratio. If you need exact weight for certain ratio or input output modules, please consult our company.

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