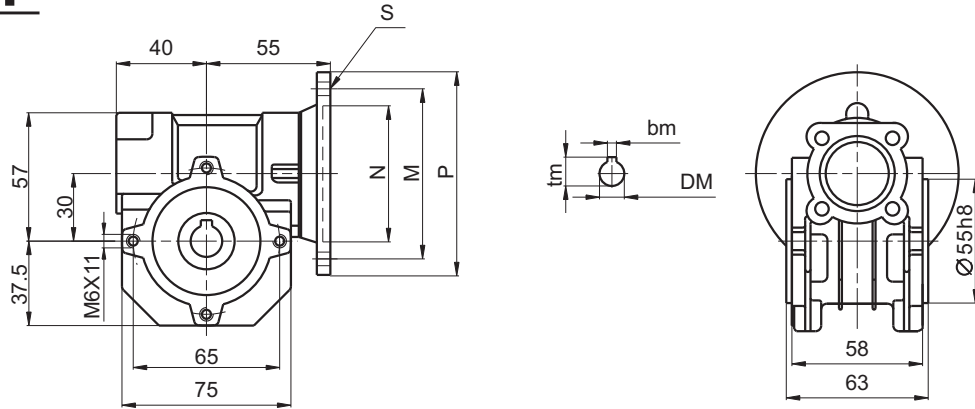


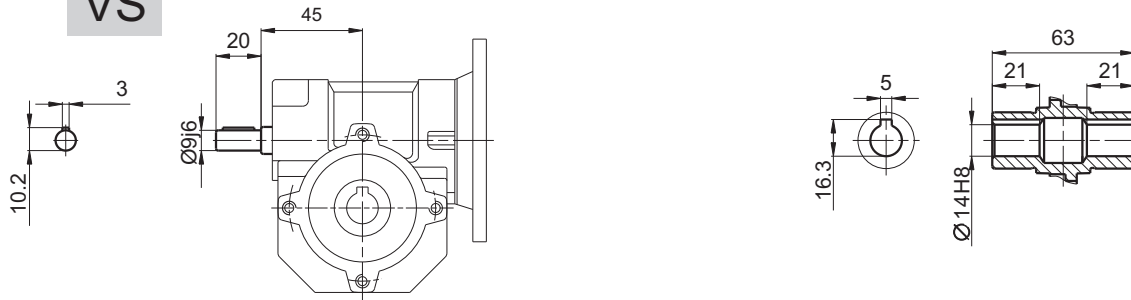
Dimensions
尺寸

030

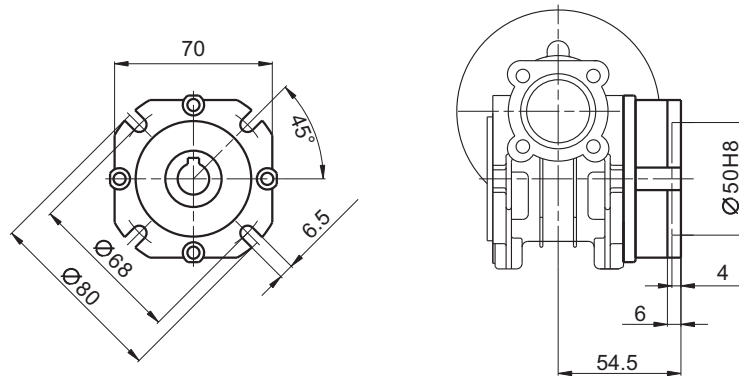
HMVF



VS



FA



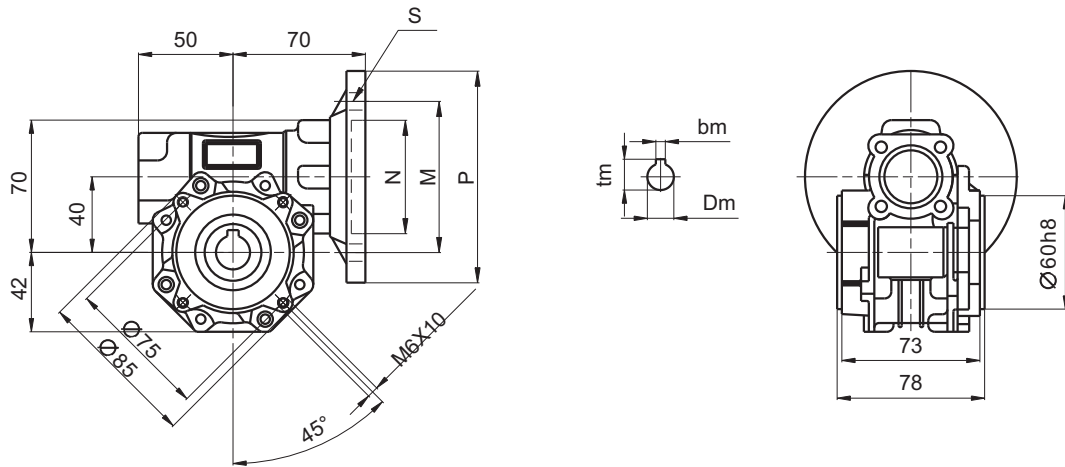
PAM-IEC 适用电机	N (H8)	M	P	bm	tm	S	Dm (H7)											
							5	7.5	10	15	20	25	30	40	50	60	80	100
63B5	Ø95	Ø115	Ø140	4	12.8	Ø9	11	11	11	11	11	11	11	11	-	-	-	23
63B14	Ø60	Ø75	Ø90	4	12.8	Ø6	9	9	9	9	9	9	9	9	9	-	-	20
56B5	Ø80	Ø100	Ø120	3	10.4	Ø7	9	9	9	9	9	9	9	9	9	9	-	20
56B14	Ø50	Ø65	Ø80	3	10.4	Ø6	9	9	9	9	9	9	9	9	9	9	-	20

Weight: 1.2kg
重量: 1.2kg

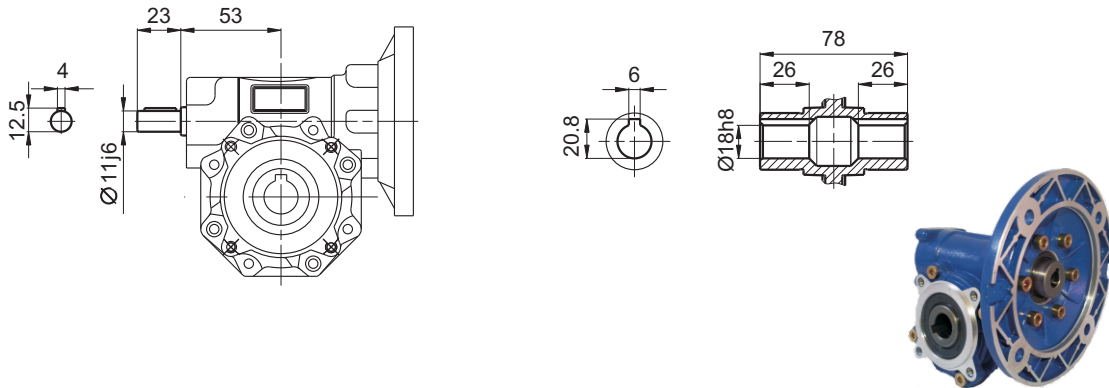
Dimensions 尺寸

040

HMVF



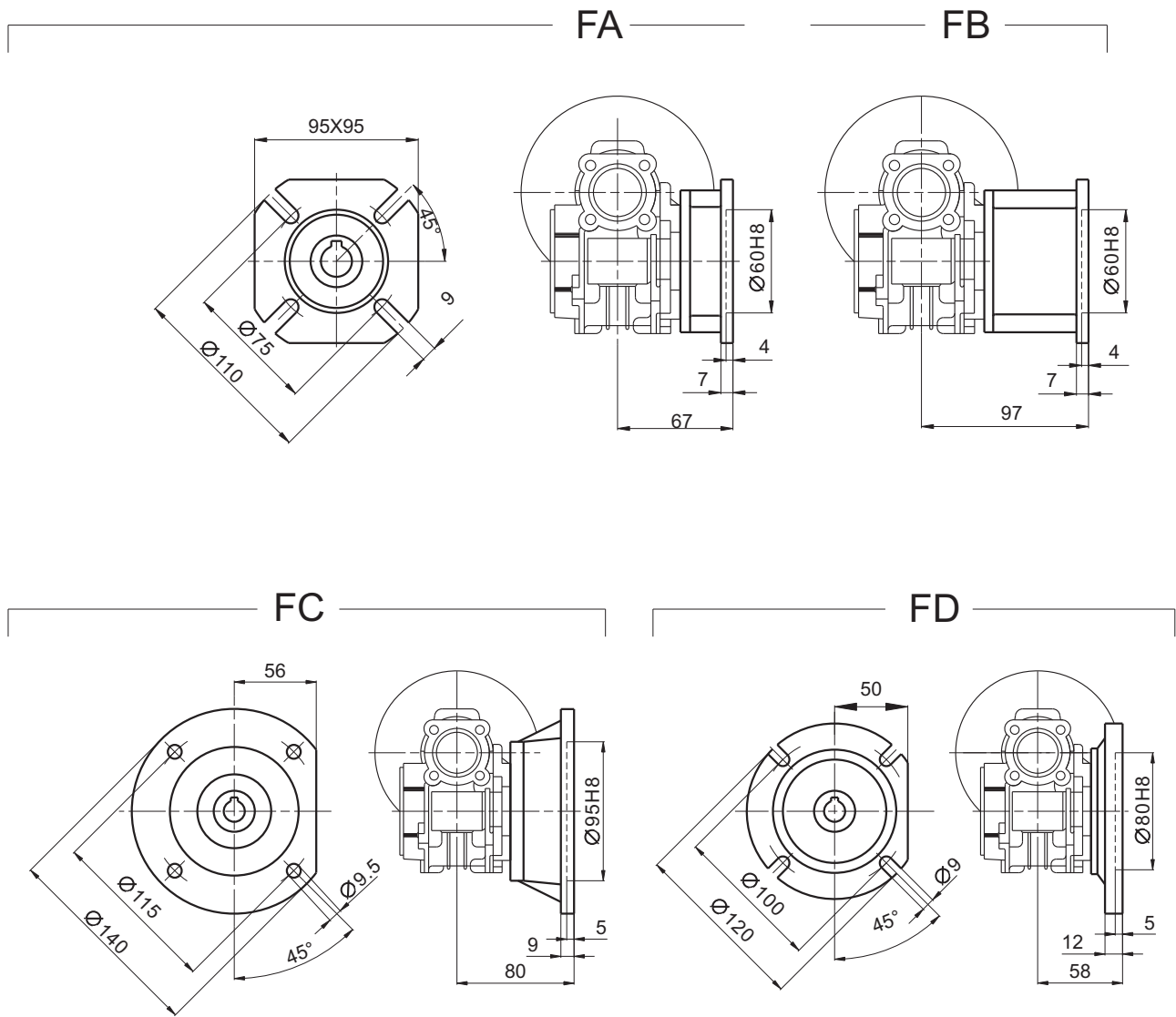
VS



PAM-IEC 适用电机	N (H8)	M	P	bm	tm	S	Dm (H7)													
							5	7.5	10	15	20	25	30	40	50	60	80	100	Depth 深	
71B5	$\varnothing 110$	$\varnothing 130$	$\varnothing 160$	5	16.3	$\varnothing 11$														
71B14	$\varnothing 70$	$\varnothing 85$	$\varnothing 105$	5	16.3	$\varnothing 7$	14	14	14	14	14	14	14	-	-	-	-	-	-	30
63B5	$\varnothing 95$	$\varnothing 115$	$\varnothing 140$	4	12.8	$\varnothing 9$														
63B14	$\varnothing 60$	$\varnothing 75$	$\varnothing 90$	4	12.8	$\varnothing 6$	11	11	11	11	11	11	11	11	11	11	11	11	11	23
56B5	$\varnothing 80$	$\varnothing 100$	$\varnothing 120$	3	10.4	$\varnothing 7$	-	-	-	-	-	-	-	-	-	9	9	9	9	23

Weight : 2.3kg
重量 : 2.3kg

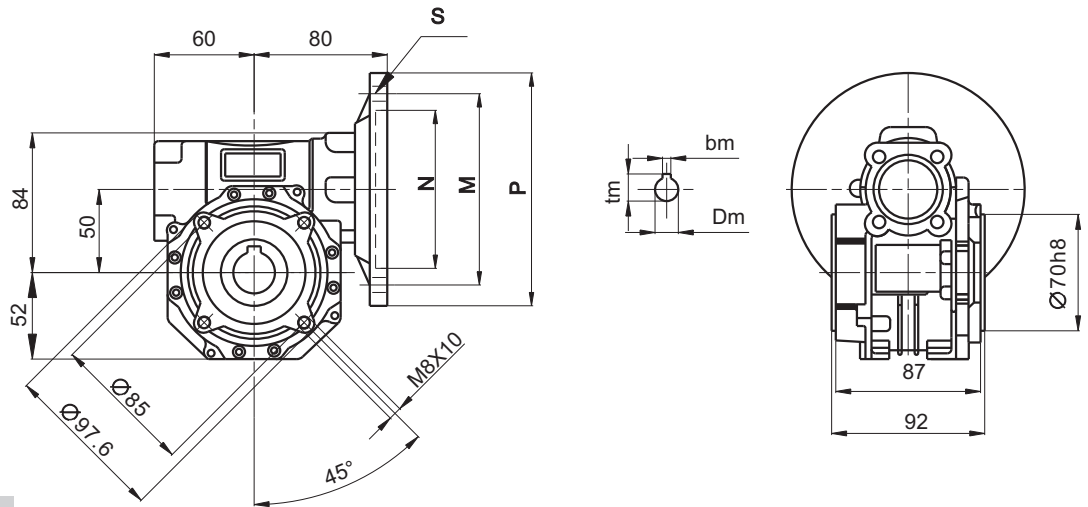
Output flange 输出法兰



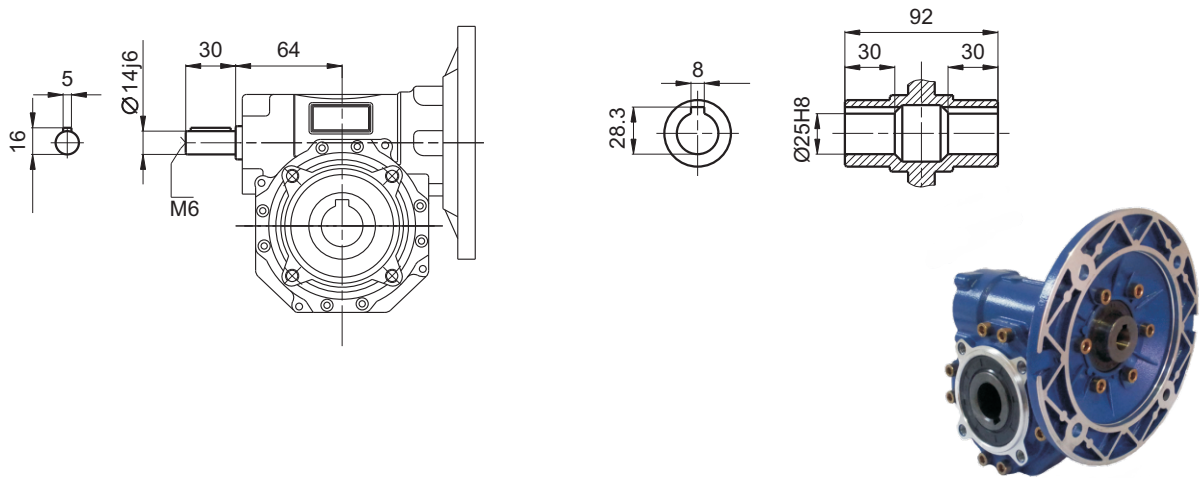
Dimensions 尺寸

050

HMVF



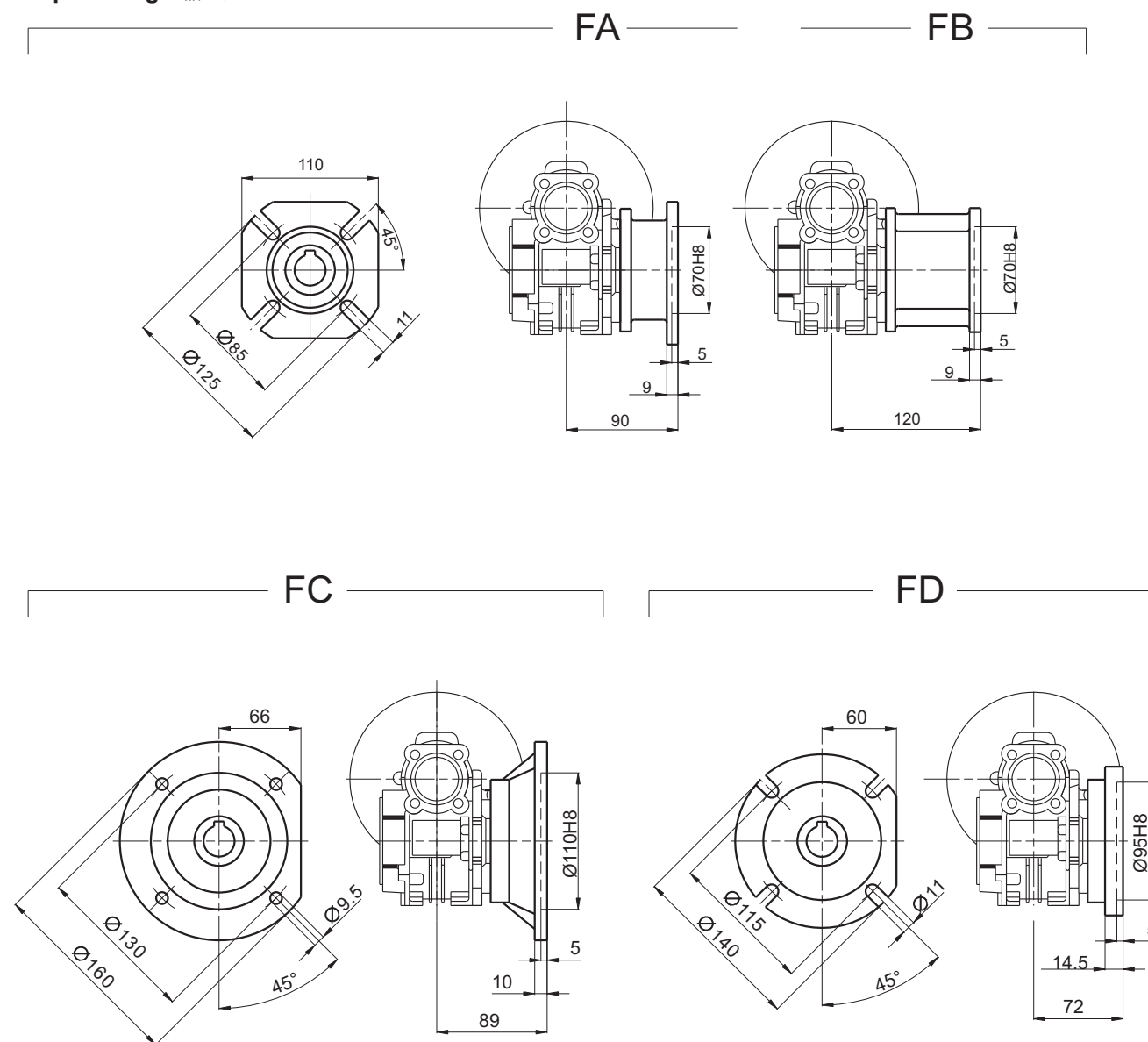
VS

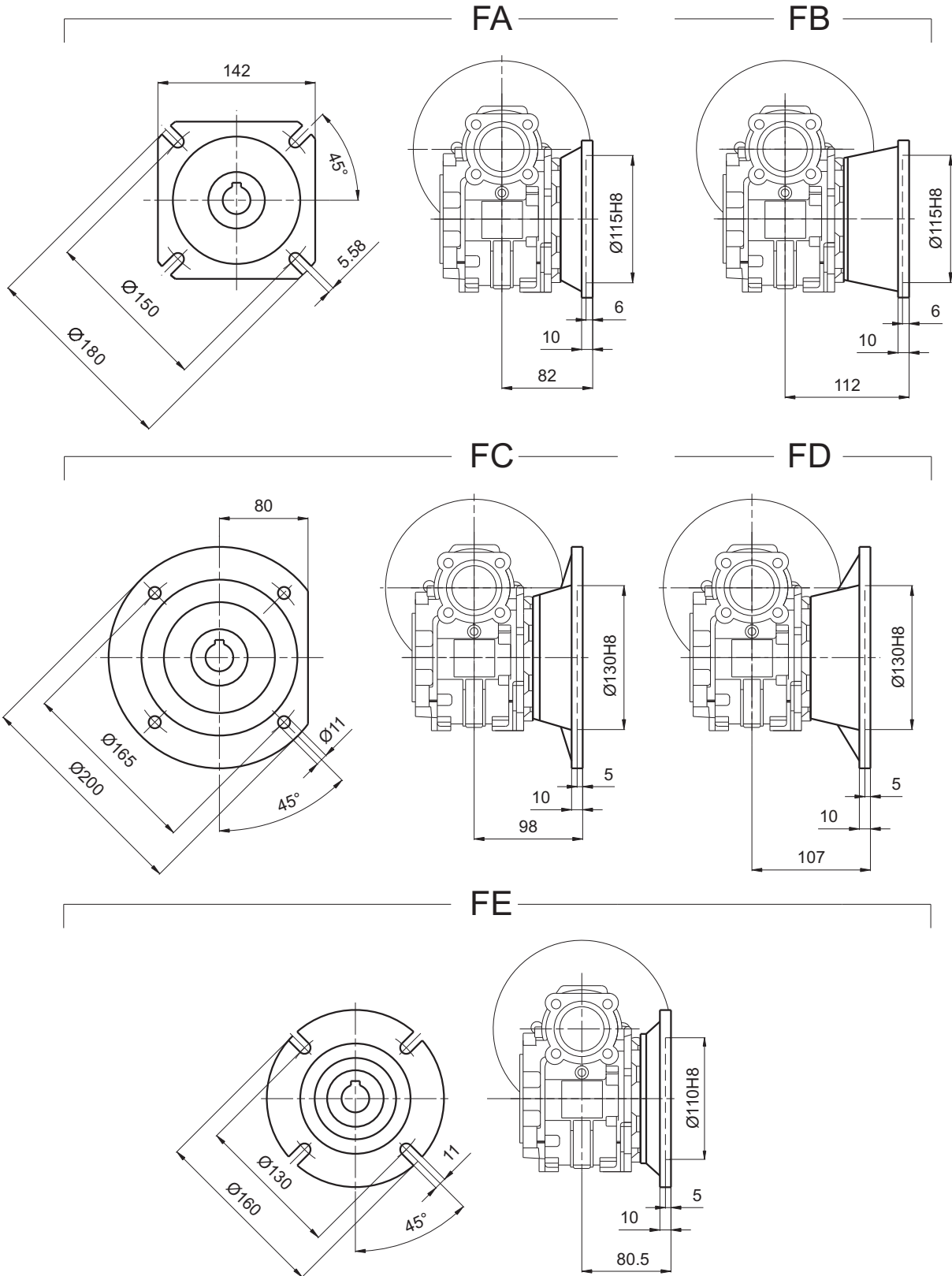


PAM-IEC 适用电机	N (H8)	M	P	bm	tm	S	Dm (H7)													
							5	7.5	10	15	20	25	30	40	50	60	80	100	Depth 深	
80B5	Ø130	Ø165	Ø200	6	21.8	Ø11														
80B14	Ø80	Ø100	Ø120	6	21.8	Ø7	19	19	19	19	19	19	19	-	-	-	-	-	-	40
71B5	Ø110	Ø130	Ø160	5	16.3	Ø11														
71B14	Ø70	Ø85	Ø105	5	16.3	Ø7	14	14	14	14	14	14	14	14	14	14	14	14	-	30
63B5	Ø95	Ø115	Ø140	4	12.8	Ø9	-	-	-	-	-	-	-	11	11	11	11	11	11	23

Weight : 3.5kg
重量 : 3.5kg

Output flange 输出法兰

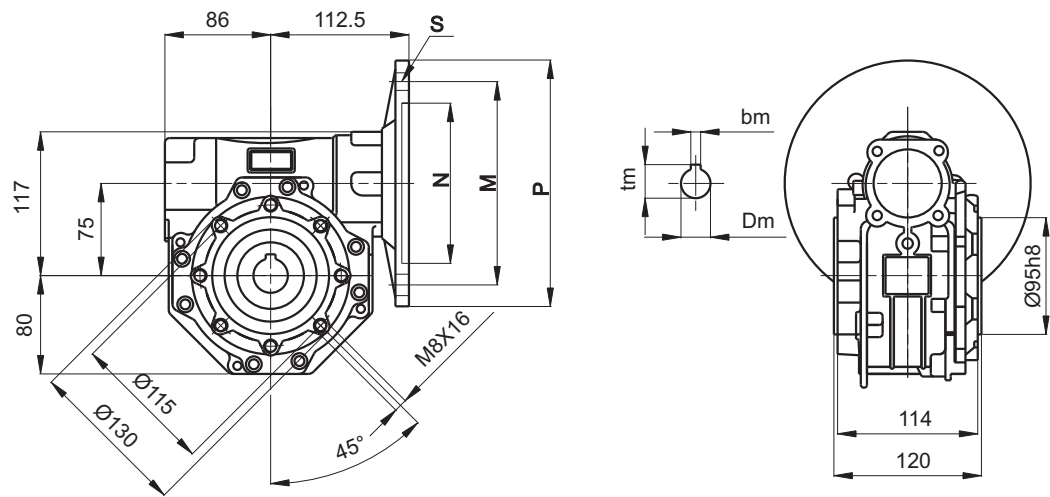




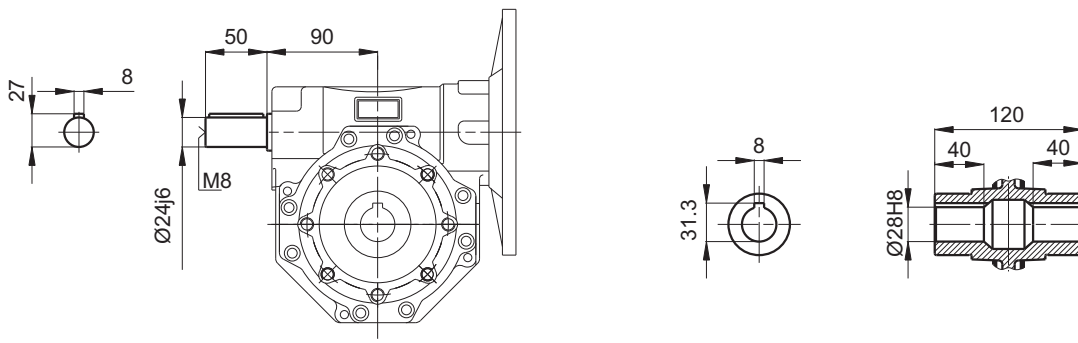
Dimensions 尺寸

075

HMVF



VS

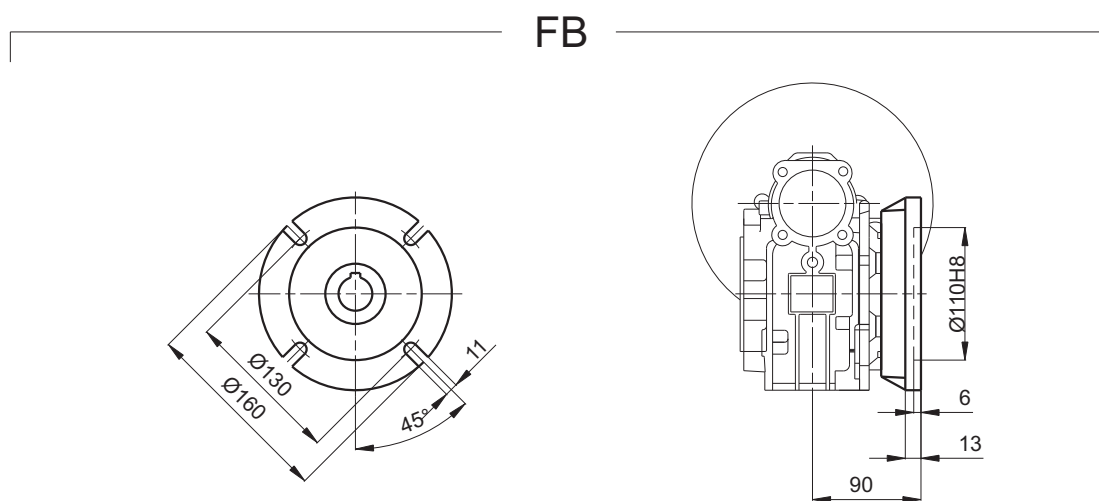
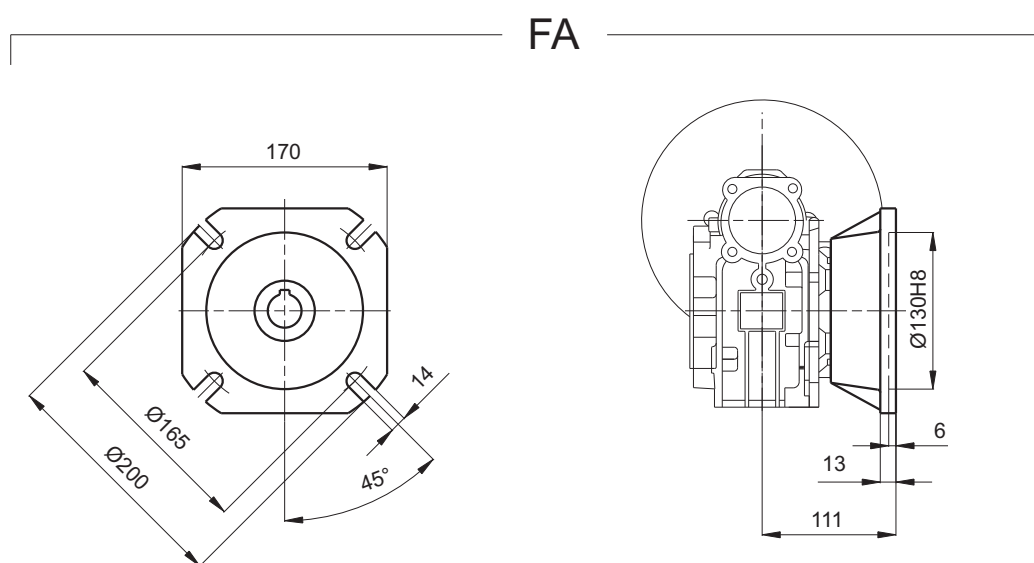


PAM-IEC 适用电机	N (H8)	M	P	bm	tm	S	Dm (H7)											
							5	7.5	10	15	20	25	30	40	50	60	80	100
100/112B5	$\varnothing 180$	$\varnothing 215$	$\varnothing 250$	8	31.3	$\varnothing 15$	-	28	28	28	-	-	-	-	-	-	-	60
100/112B14	$\varnothing 110$	$\varnothing 130$	$\varnothing 160$	8	31.3	$\varnothing 9$	-	24	24	24	24	24	24	-	-	-	-	50
90B5	$\varnothing 130$	$\varnothing 165$	$\varnothing 200$	8	27.3	$\varnothing 11$	-	-	-	-	19	19	19	19	19	19	19	40
90B14	$\varnothing 95$	$\varnothing 115$	$\varnothing 140$	8	27.3	$\varnothing 9$	-	-	-	-	-	-	-	-	-	-	-	40
80B5	$\varnothing 130$	$\varnothing 165$	$\varnothing 200$	6	21.8	$\varnothing 11$	-	-	-	-	-	-	-	14	14	14	14	30
80B14	$\varnothing 80$	$\varnothing 100$	$\varnothing 120$	6	21.8	$\varnothing 7$	-	-	-	-	-	-	-	-	-	-	-	30
71B5	$\varnothing 110$	$\varnothing 130$	$\varnothing 160$	5	16.3	$\varnothing 11$	-	-	-	-	-	-	-	-	-	-	-	30

Weight : 9kg

重量 : 9kg

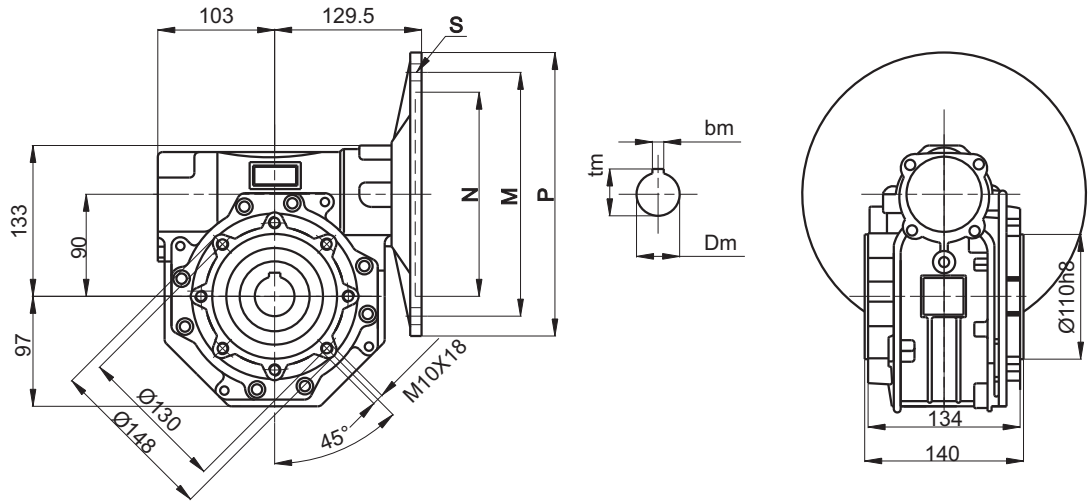
Output flange 输出法兰



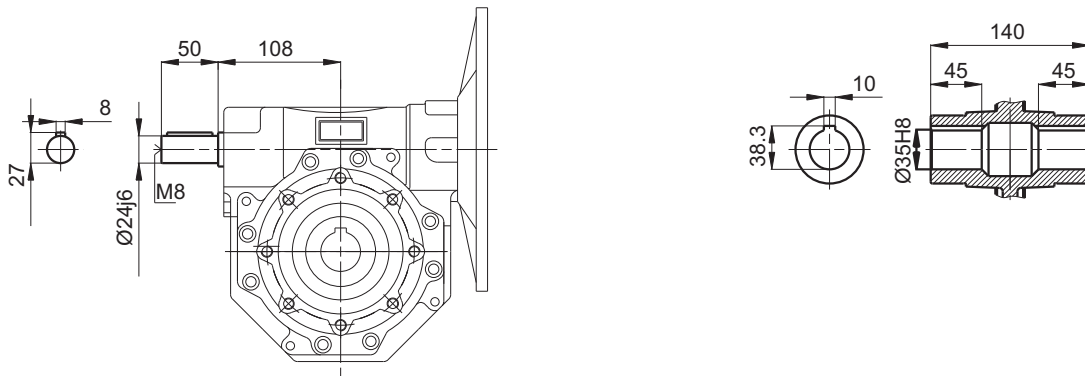
Dimensions
尺寸

HMVF 090

090

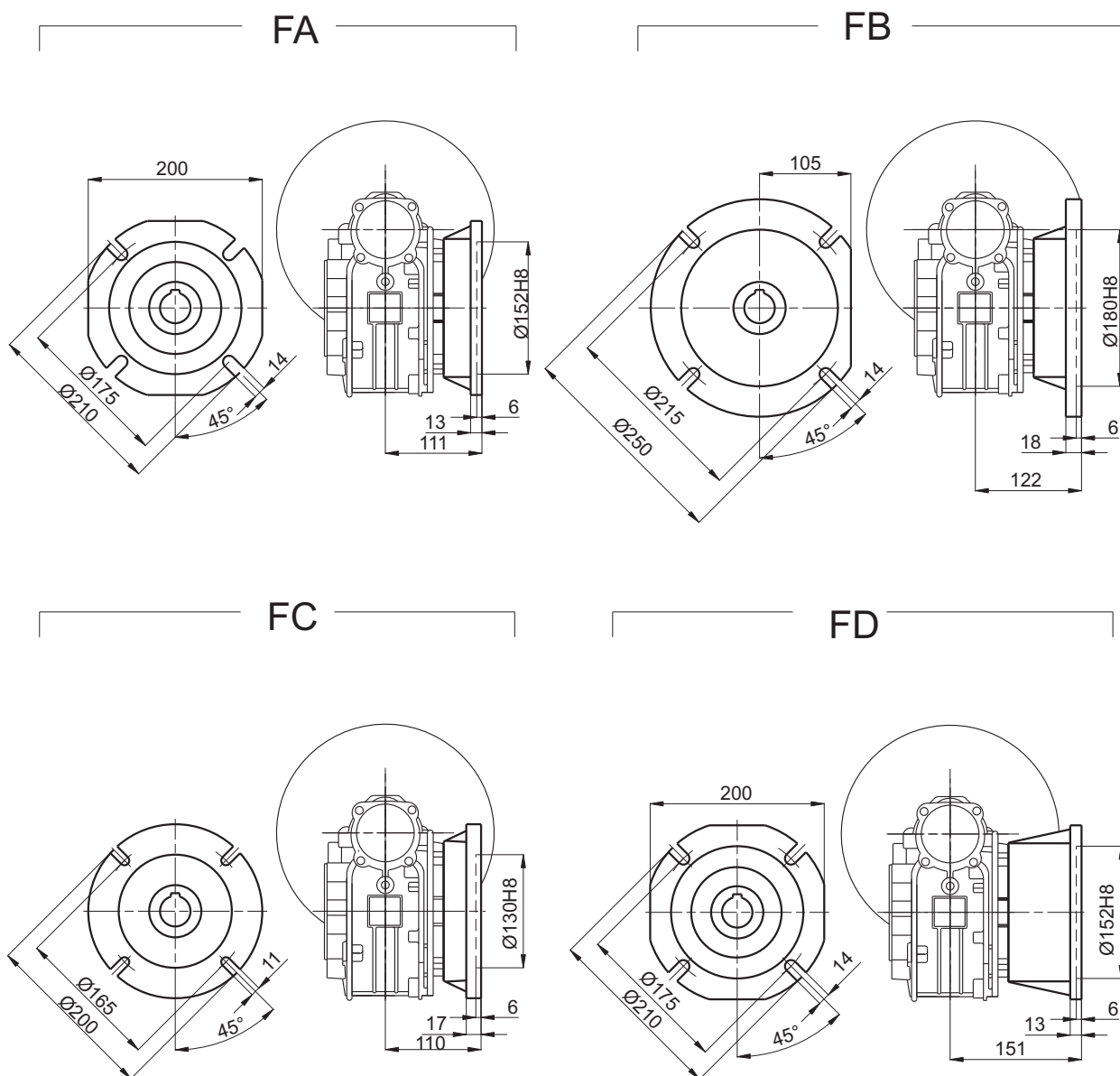


VS



PAM-IEC 适用电机	N (H8)	M	P	bm	tm	S	Dm (H7)												
							5	7.5	10	15	20	25	30	40	50	60	80	100	Depth 深
100/112B5	$\varnothing 180$	$\varnothing 215$	$\varnothing 250$	8	31.3	$\varnothing 15$	-	28	28	28	28	28	28	-	-	-	-	-	60
100/112B14	$\varnothing 110$	$\varnothing 130$	$\varnothing 160$	8	31.3	$\varnothing 9$	-	24	24	24	24	24	24	24	24	-	-	-	50
90B5	$\varnothing 130$	$\varnothing 165$	$\varnothing 200$	8	27.3	$\varnothing 11$	-	-	-	-	-	-	-	19	19	19	19	19	40
90B14	$\varnothing 95$	$\varnothing 115$	$\varnothing 140$	8	27.3	$\varnothing 9$	-	-	-	-	-	-	-	19	19	19	19	19	40
80B5	$\varnothing 130$	$\varnothing 165$	$\varnothing 200$	6	21.8	$\varnothing 11$	-	-	-	-	-	-	-	19	19	19	19	19	40
80B14	$\varnothing 80$	$\varnothing 100$	$\varnothing 120$	6	21.8	$\varnothing 7$	-	-	-	-	-	-	-	19	19	19	19	19	40

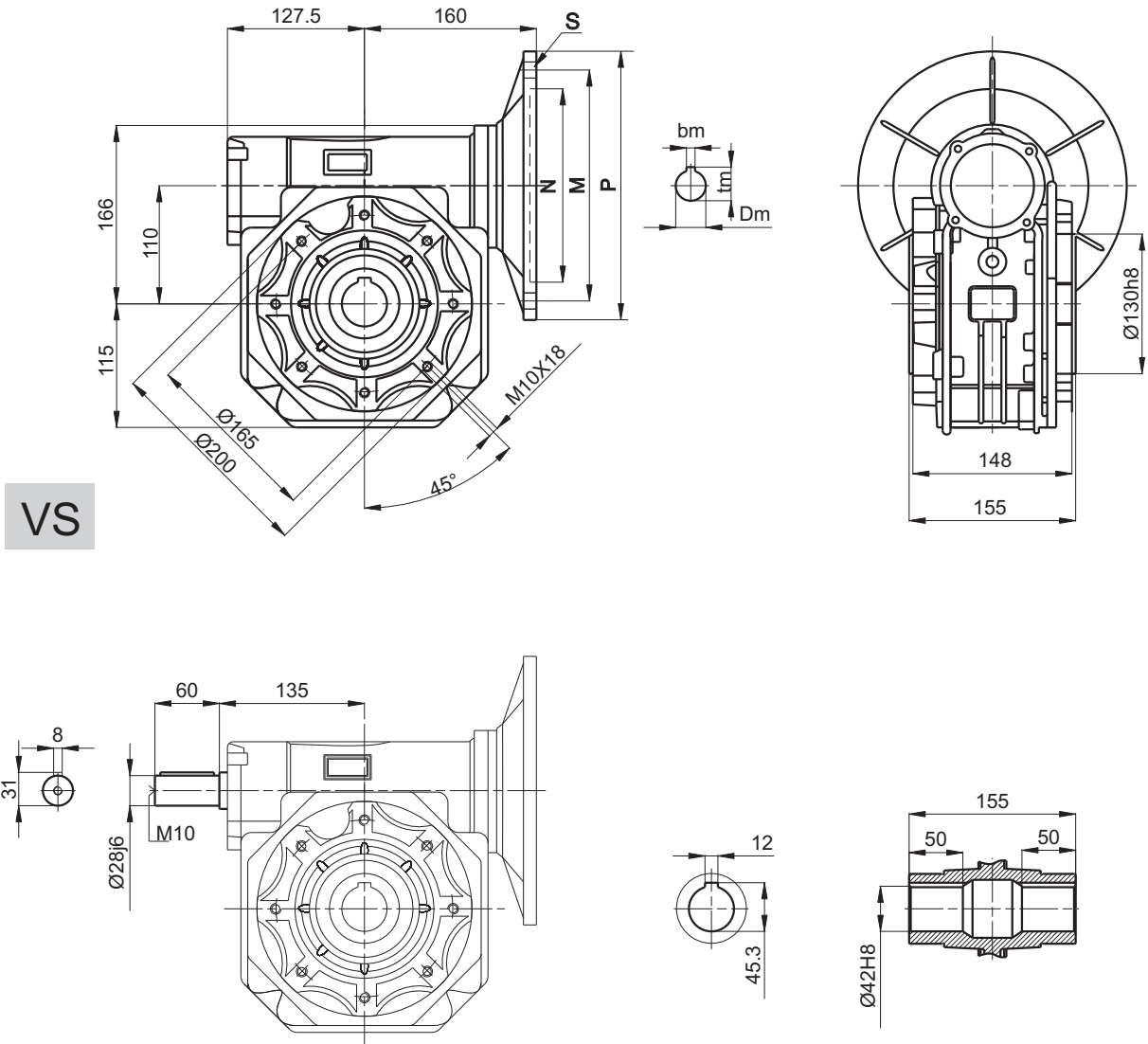
Weight : 13kg
重量 : 13kg



Dimensions 尺寸

105

HMVF 105



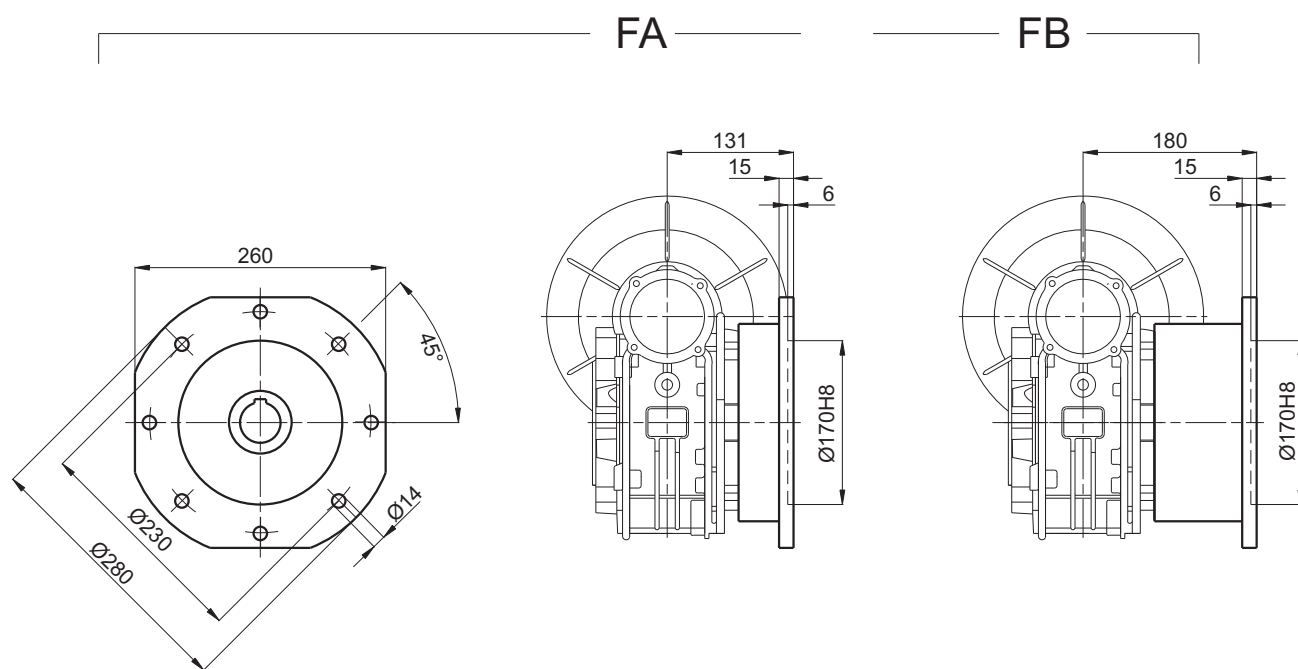
VS

PAM-IEC 适用电机	N (H8)	M	P	bm	tm	S	Dm (H7)													
							5	7.5	10	15	20	25	30	40	50	60	80	100	Depth 深	
132B5	$\varnothing 230$	$\varnothing 265$	$\varnothing 300$	10	41.3	$\varnothing 15$	-	38*	38*	38*	38*	-	-	-	-	-	-	-	80	
100/112B5	$\varnothing 180$	$\varnothing 215$	$\varnothing 250$	8	31.3	$\varnothing 15$	-	28	28	28	28	28	28	28	28	28	-	-	60	
90B5	$\varnothing 130$	$\varnothing 165$	$\varnothing 200$	8	27.3	$\varnothing 11$	-	-	-	-	-	24	24	24	24	24	24	24	50	
80B5	$\varnothing 130$	$\varnothing 165$	$\varnothing 200$	6	21.8	$\varnothing 11$	-	-	-	-	-	-	-	-	-	-	-	19	19	40

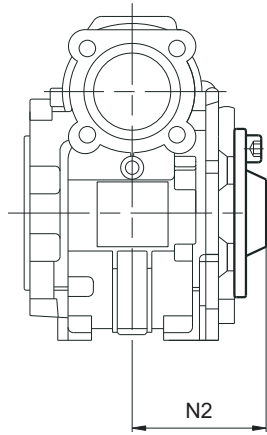
Weight : 21kg
重量 : 21kg

Note:(*)Low profile key supplied by Haitec.
注释：薄键由欧特士提供。

Output flange 输出法兰

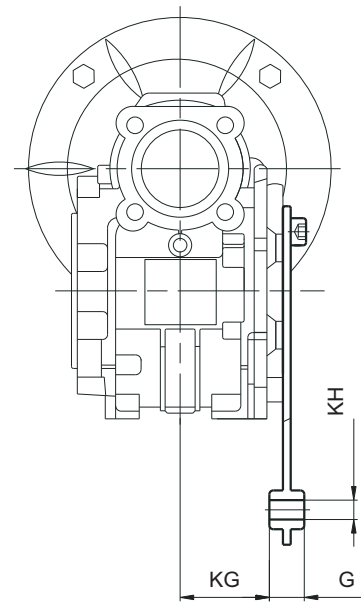
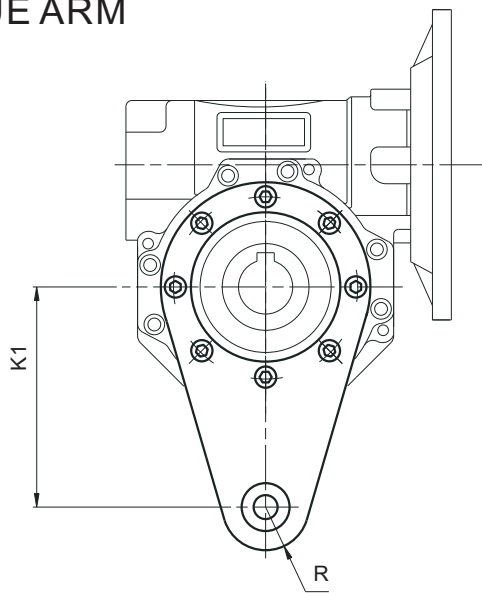


HMVF COVER 防护盖



	N2
030	42
040	50
050	58
063	69
075	74
090	86
105	94

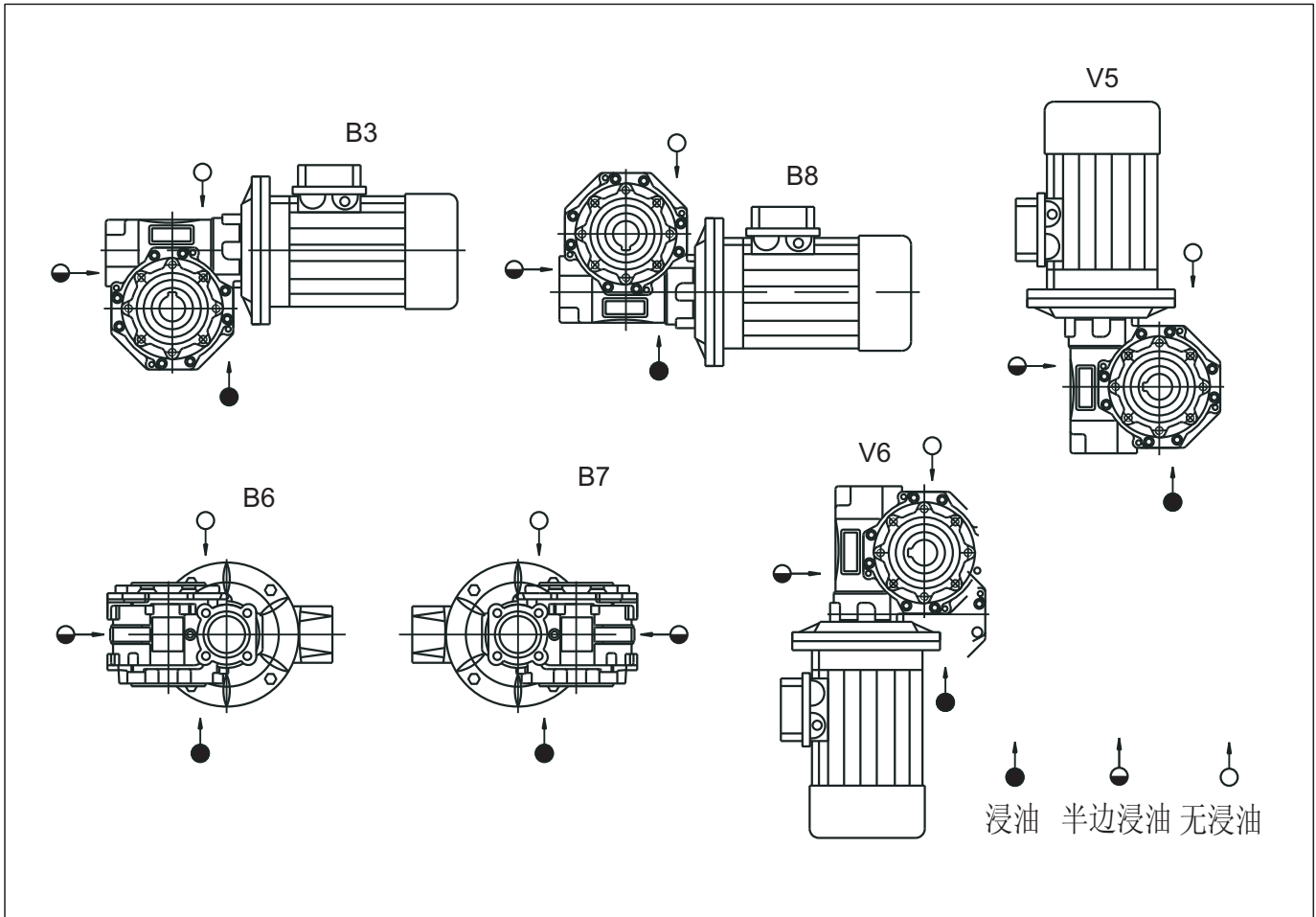
TORQUE ARM
转矩臂



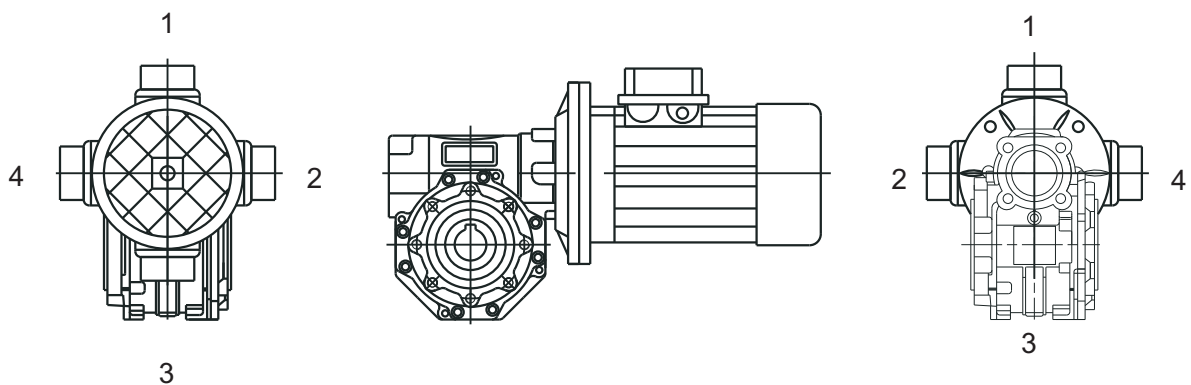
	K1	G	KG	KH	R
025	70	14	17.5	8	15
030	85	14	24	8	15
040	100	14	31.5	10	18
050	100	14	38.5	10	18
063	150	14	49	10	18
075	200	25	47.5	20	30
090	200	25	57.5	20	30
105	250	30	62	25	35



HMVF Mounting positions with motor
HMVF与电机的安装型式



POS.of terminal box
接线盒位置



User's Manual

Thank you very much to choose our company's products. Before using, please carefully read the following instructions, and ensure the right operations about it.

Types:

1. Worm gear reducer can be classified as flange input and shaft input by input way, and be classified as hollow shaft output, single shaft output, double shaft output and so on by output way.
 2. Size series: 25、30、40、50、63、75、90、105、110、130、150.
- Reduction ratio series (Single) : 5、7.5、10、15、20、25、30、40、50、60、80、100.

Installation:

1. Suggest the rotate speed of worm less than 1500r/min.
2. The mounting on the machine must be stable and avoid any vibration.
3. Check the correct input efficiency, speed of rotation and output torque according to unit nameplate, and the same direction of rotation of the reduction unit output shaft before fitting the unit to the machine.
4. For a shaft mounting, for reduction unit with a hollow output shaft, make sure that the constraint is axially free and with such play as to ensure free movement for the reduction unit.
5. The various parts (pulleys, gear wheels, couplings, shafts, etc.) must be mounted on the solid or hollow shafts using special threaded holes or other systems that anyhow ensure correct operation units. Lubrication the surfaces in contact to avoid seizure or oxidation.
6. After mounting, rotating shaft by hand must be agility and no lock.
7. Starting must take place gradually, without immediately applying the maximum load, and ensure stable, no noise, no loosen, no leaking oil and so on in rotation.

Lubrication:

1. Environment temperature of unit is $-10^{\circ}\text{C}\sim 60^{\circ}\text{C}$. In the case of temperatures under 0°C , it is necessary to heat up lubrication over 0°C or use low freezing oil before operation.
2. During the early stages of service, problem of lubrication may arise due to the high level of viscosity taken on by the oil and so it is wise to have a few minutes of rotation under no load.
3. In the case of particularly lengthy period of storage (4~6 months), if the oil seal is not immersed in the lubricant inside the unit, it is recommended to change it since the rubber could stick to the shaft or may even have lost the elasticity it needs to function properly.
4. Check the correct level of the lubricant through the indicator, if there is one.
5. The oil needs to be changed after approximately 10000 hours. This period depends on the type of service and the environment where this reduction unit works.
6. For units supplied without oil plugs, lubrication is permanent and so they need no servicing.

Maintain:

1. Avoid to hit the shell of the reduction unit by gravitational hammer to protect it.
2. Check the correct state of installation basis, oil seals, input / output shaft and so on in the same period. Otherwise, it is necessary to stop reduction unit and get rid of matter, then go on work.
3. Whenever possible, protect the reduction unit against solar radiation and bad weather.
4. Ensure the motor cools correctly by assuring good passage of air from the fan side.

Recommendation of lubricant brand:

	HMRV110~150		HMRV025~105
	Mineral oil		Synthetic oil
T [°] C ISO VG	(-5) ~(+40) ISO VG460	(-15) ~(+25) ISO VG220	(-25) ~(+50) ISO VG320
AGIP	BLASIA 460	BLASIA 220	TELIUM VSF320
SHELL	OMALA OIL460	OMALA OIL220	TIVELA OIL SC320
ESSO	SPARTAN EP460	SPARTAN EP220	S220
MOBIL	MOBIL GEAR634	MOBIL GEAR630	GLYGOYLE 320
CASTROL	ALPHA MAX460	ALPHA MAX220	ALPHASYN PG320
BP	ENERGOL GR-XP460	ENERGOL GR-XP220	ENERGOL SG-XP320

The quantity of oil: (liter)

HMRV	025	030	040	050	063	075	090	105	110	130	150
B3									3	4.5	7
B8									2.2	3.3	5.1
B6-B7	0.02	0.04	0.08	0.15	0.3	0.55	1	1.6	2.5	3.5	5.4
V5									3	4.5	7
V6									2.2	3.3	5.1

使用说明书

十分感谢您选用了本公司产品。在使用之前，请详细参阅以下说明，以确保正确使用。

型式说明:

- 1、蜗轮蜗杆减速器按输入方式可分为孔式输入和轴式输入，按输出方式可分为孔输出、单向轴输出、双向轴输出等轴型。
- 2、按中心距分有：25、30、40、50、63、75、90、105、110、130、150系列。
单级传动比系列：5、7.5、10、15、20、25、30、40、50、60、80、100。

一、安装

- 1、蜗杆转速建议小于1500 r/min。
- 2、安装应避免任何振动，保持平稳。
- 3、安装之前，应复核其输入功率、转速及输出轴扭矩与铭牌相符，并检查减速器输出轴的旋转方向，并与工作机一致。
- 4、对于减速器输出轴的安装，应保证轴向自由无约束并能相对于减速器轴向自由移动。
- 5、各种与减速器输出端相联接的零部件（滑轮、齿轮、联轴器、轴等）可采用螺纹孔或其它方式联接，以确保元件正确运行。润滑面应避免接触和防止氧化。
- 6、安装后用手转动轴，必须保证灵活、无卡滞现象。
- 7、起动应逐渐加载，避免过大的冲击载荷，并保证转动平稳、无异响、不松动、无漏油等。

二、润滑

- 1、减速器的环境温度为-10℃~60℃，在环境温度低于0℃时，起动前润滑油必须加热到0℃以上或采用低凝固点的润滑油。
- 2、减速器刚开始运转时，可能会出现润滑油粘度高而产生的问题，建议进行几分钟的空载跑合。
- 3、存放了一段时间（4~6月）的减速器，如果油封和箱体之间没有润滑剂，应该建议更换油封，因为这会由于油封橡胶老化粘于轴或失去弹性而导致性能下降。
- 4、如果有油量指示器，应定期检查油量使其在正确的范围内。
- 5、经过累计10000小时工作后应更换润滑油。在有效工作时间内，应使减速器处于正常的工作环境和对其进行正确保养。
- 6、对于没有油塞的减速器，是长久润滑设计，免维修。

三、维护

- 1、不得重力捶击减速器外壳，以免损坏。
- 2、定期检查安装基础、密封件、传动轴等是否正常。若产生不正常现象，应立即停机检查，排除故障，方可继续使用。
- 3、应尽量避免减速器受阳光直射和处于恶劣气候条件下。
- 4、应提供良好的通风条件确保减速器正常散热。

推荐润滑油:

	HMRV110~150		HMRV025~105
	矿物油		合成油
T℃ ISO VG	(-5) ~(+40) ISO VG460	(-15) ~(+25) ISO VG220	(-25) ~(+50) ISO VG320
AGIP	BLASIA 460	BLASIA 220	TELIUM VSF320
SHELL	OMALA OIL460	OMALA OIL220	TIVELA OIL SC320
ESSO	SPARTAN EP460	SPARTAN EP220	S220
MOBIL	MOBIL GEAR634	MOBIL GEAR630	GLYGOYLE 320
CASTROL	ALPHA MAX460	ALPHA MAX220	ALPHASYN PG320
BP	ENERGOL GR-XP460	ENERGOL GR-XP220	ENERGOL SG-XP320

油量:(单位 升)

HMRV	025	030	040	050	063	075	090	105	110	130	150
B3									3	4.5	7
B8									2.2	3.3	5.1
B6-B7	0.02	0.04	0.08	0.15	0.3	0.55	1	1.6	2.5	3.5	5.4
V5									3	4.5	7
V6									2.2	3.3	5.1