



万兴减速机
WANXING GEAR REDUCER



NMRV 蜗轮蜗杆减速机系列
NMRV WORM GEAR SPEED REDUCER



<http://www.wx-jsj.com>

品质为天，诚信为本
Quality first and credit first

Introduction

杭州万兴减速机有限公司是中国齿轮专业协会、中国减变速机协会的会员单位，是一家集传动机械研究，制造和经营于一体的专业性公司。公司自创办以来，始终坚持以“品质为天，诚信为本”，以质量信誉求生存，以科技产品求发展，在同行中率先通过ISO9001:2000国际质量管理体系认证。

公司产品以“万兴”为注册商标，主要产品有三大系列摆线针轮减速机，SWL系列蜗轮丝杆升降机，WB系列微型摆线针轮减速机，舞台专用吊杆减速机，WP、FC系列蜗轮减速机，NMRV系列铝壳蜗轮减速机，UD系列行星锥盘无级变速机，化工反应釜机架，联轴器。

“万兴”牌产品被广泛应用于：环保工程，印染化工，仓储物流，啤酒饮料、起重输送、冶金矿山、烟草轻工、立体车库、橡胶橡塑、道路机械、舞台设备、搪瓷、陶瓷等领域。产品销售网络覆盖国内二十多个省、市，产品质量赢得广大用户的广泛信赖。

Hangzhou Wanxing Reducer Co., Ltd is CGMA, CRVA members of the unit, Is specialized in R&D, manufacture and sales of transmissions. By taking the aim of "quality first and credit first", we always strive for survival on the basis of quality and credit and strive for development on the basis of technology since our company was built as well as is the first to pass ISO9001:2000 International Quality System Certificate.

Registering "WANXING" as trade mark, our products mainly include cycloidal lantern reducer, SWL Worm Gear Lifter, WB series micro cycloidal lantern reducer, special stage boom reducer, WP、FC series worm reducer, NMRV series aluminum shell worm reducer, UD series planet cone-disk step less speed Varistor, kettle frame and coupling.

"WANXING" brand products have been widely used in sectors of environmental engineering, printing & chemical industry, logistics, beer, lifting & transport, metallurgy, mining, tobacco, solid garage, rubber & plastic, road machinery, stage equipments, enamel and ceramic, etc. Our sales network spreads over 20 provinces and cities throughout China and our products have been received by vast customers.

WANXING
REDUCER

蜗轮减速机概述 Product summary

NMRV系列蜗轮减速机是在原有WP系列产品基础上，融合国际先进的技术，研制开发的新一代产品，采用先进的方箱结构，优质的铝合金高压压铸成形，具有体积小、重量轻、高强度、散热快、美观耐用。

减速机输出扭矩大、传动平稳噪音小，采用全封闭结构、密封性好、免维护、可适应全方位安装。

NMRV series worm gear reducer is in original reference series product basis, combining the international advanced technology, research and development of a new generation of products, adopts advanced square box structure, high quality aluminum alloy with high-pressure whole-coasting, small volume, light weight, high strength, heat faster, attractive and durable.

Reducer output torque, smooth transmission noise is small, adopt totally closed structure, good sealing, free of maintenance, can adapt to comprehensive installation.

使用与安全保障 Use and safety guarantee

1. 使用前请确定蜗轮减速机与机械安全配套强度，在蜗轮减速机性能参数安全范围内。
2. 蜗轮减速机出厂时已加注WA460润滑油，在开始运行400小时，应更换润滑油，以后换油周期约为4000小时。
3. 蜗轮减速机箱体内存留足够的润滑油，并定时检查油量。
4. 安装时避免锋利器具碰伤输出轴油封造成减速机漏油。
5. 与机械连接前请确认旋转方向，若旋转方向不正常有可能受伤或破坏装置。
6. 在旋转部位请设置安全罩等，防止受伤。
7. 搬动时若发生脱落或倾倒，很危险，请充分注意。

1. Before use, please determine worm gear reducer and mechanical safety supporting intensity, the worm gear reducer performance parameters safety range.

2. Worm gear reducer factory has WA460 lubricating oil, filling in starting operation 400 hours, should be replaced, lubricating oil cycle after about 40 hours.

3. Worm gear deceleration cabinet body should retain enough oil, and regularly check the amount of oil.

4 when installation, avoid sharp instruments bruising output shaft seal cause reducer leakage.

5. And mechanical connection rotation direction, before please confirm if the rotation direction is not normal possible injury or damage device.

6. In rotating parts please set safety is overspread etc, to prevent injury.

7. Move when if produce deciduous or dump, dangerous, please full attention.



ING
ER SERIES

蜗轮减速机的特点 Characteristics

1、不占空间

蜗轮减速机与马达组装时、出力轴方向安装空间大，中空型减速机轴心与马达可成直角状态，占用空间小有利于机器小型化。

Occupied no space

The space requirement for the installation of output shaft is considerably large while assembling motor or reduce. The installation of hollow type reducer may form right Angle with motor, thus facilitate miniaturize of the machine.

2、具有自锁功能

应用场合需微保持力，可直接使用，省却安装制动装置。

Self locking

For the place require for minor holding force, save the cost of baking device, such as in slope conveyor.

3、快速停止

一般齿轮减速机，停止时间约需要5-10秒，但使用NRV系列产品只需要2-5秒就可达到静止状态。

Fast stop

The ordinary gear reducer available in market requires 5-10seconds stop time. but NRV series product need only 2-5 seconds to reach state of still.

4、搭配性高

中空轴选装方便，单方向出力型或双出力轴型，轴心换装方便。

High accommodation

You may select from hollow shaft. uni-direction output shaft or dal output shaft, easy to modify, only one minute to complete the dissemble and assemble of shaft.

5、安全性高

使用不同于传统的传动方式，免链轮、皮带轮，传动结构密封不外露，可直接驱动。减少对作业人员的伤害。

High safety

Use transmission different from conventional method, no sprocket pulley is needed, no exposed transmission structure, reduce the possibility of operator.

6、防护性佳

防水、防尘，减速机防护等级IP55构造，对于粉尘及水气有良好的隔离功能。

Good protection

Water, dust proof, the protection class Ip55 possesses, good isolation to dust and moisture.

7、可多面安装，无角度限制

全系列产品，每个平面，都有固定孔，你可以选择安装时所需的方向、角度安装。

Allow multiple sides installation, no restriction in angle

There are holes for mounting on all plains of the series of product for your selection of direction and angle required.

8、散热佳

机壳采用铝合金重力压铸一体成型，散热快，蜗杆、蜗轮寿命延长，而使用性能佳。（使用中外壳发热属正常状况）。

Good cooling effect

One formation aluminum alloy for casing, quigley heat dissipation extended life for worn lever, worn gear, good durability(wormca-sing during running is normal)

9、维修方便

因为不同于传统的装置方式，你勿需再拆装、链轮、链条，只需拆装减速机的固定座既可轻松完成换装。

Easy maintenance

Different from conventional mounting method, you den't need the dissemble the sprocket, pulley but only dissemble and assemble the mounting base of the reducer to compete the modification easily.

10、无厂牌限制

可配套的普通马达系列、或I (RK) 15W-200W马达，可轻易装配无需另外加工。

No restriction on brand

Match with 15W-200W paese or domestic product available in market without further processing.

11、宽广的减速比

由于采用分离型装配，可轻易的变换减速比，从30-20000。

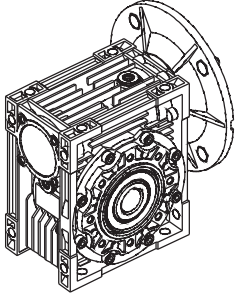
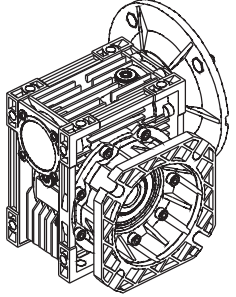
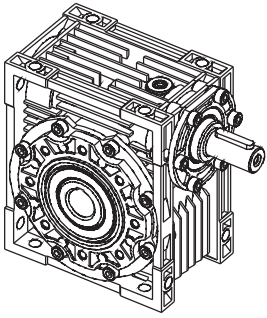
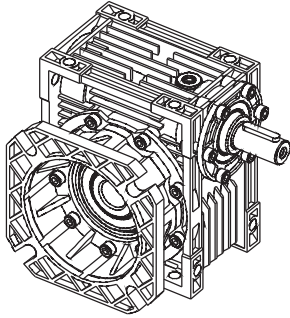
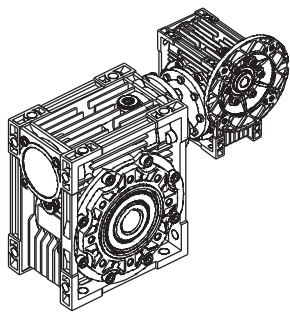
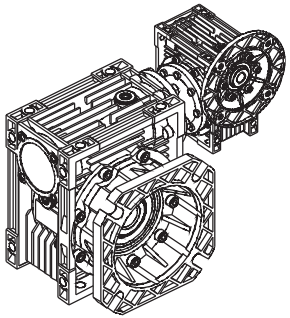
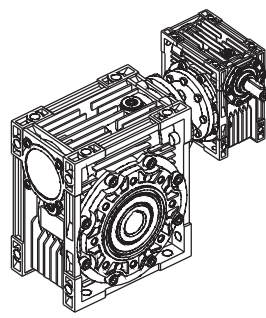
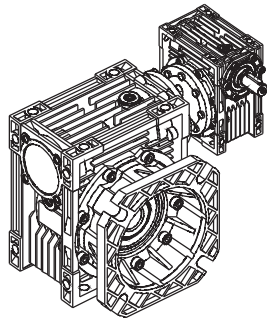
Wide reduction ratio

Easily change the reduction ration from 30-20000 due to detached assemble.

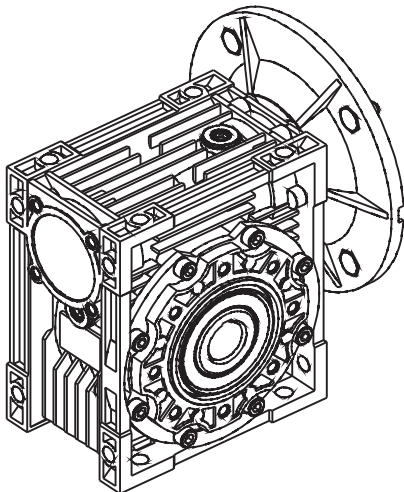
12、相配马达可以附刹车器，与蜗轮减速箱一体成形美观实用。

May complete with brake, clutch in one formation aesthetic and practice.

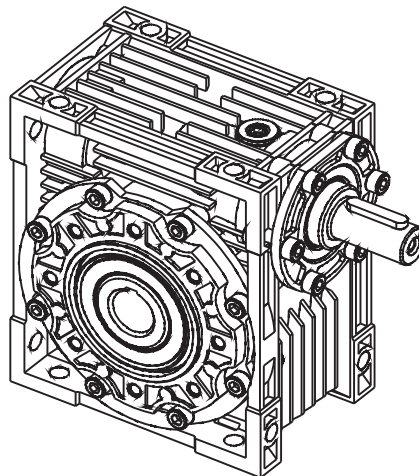
蜗轮减速机型号 Versions

	NMRV 025-130	NMRV 025-130 F	
	NRV 025-130	NRV 025-130 F	
	NMRV-NMRV 025-130	NMRV-NMRV 025-130 F	
	NRV-NMRV 025-130	NRV-NMRV 025-130 F	

NMRV/NRV



NMRV

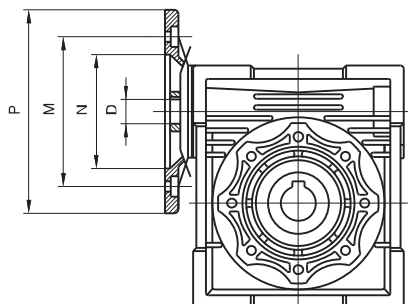


NRV

NMRV型号标记 NMRV Model & marker

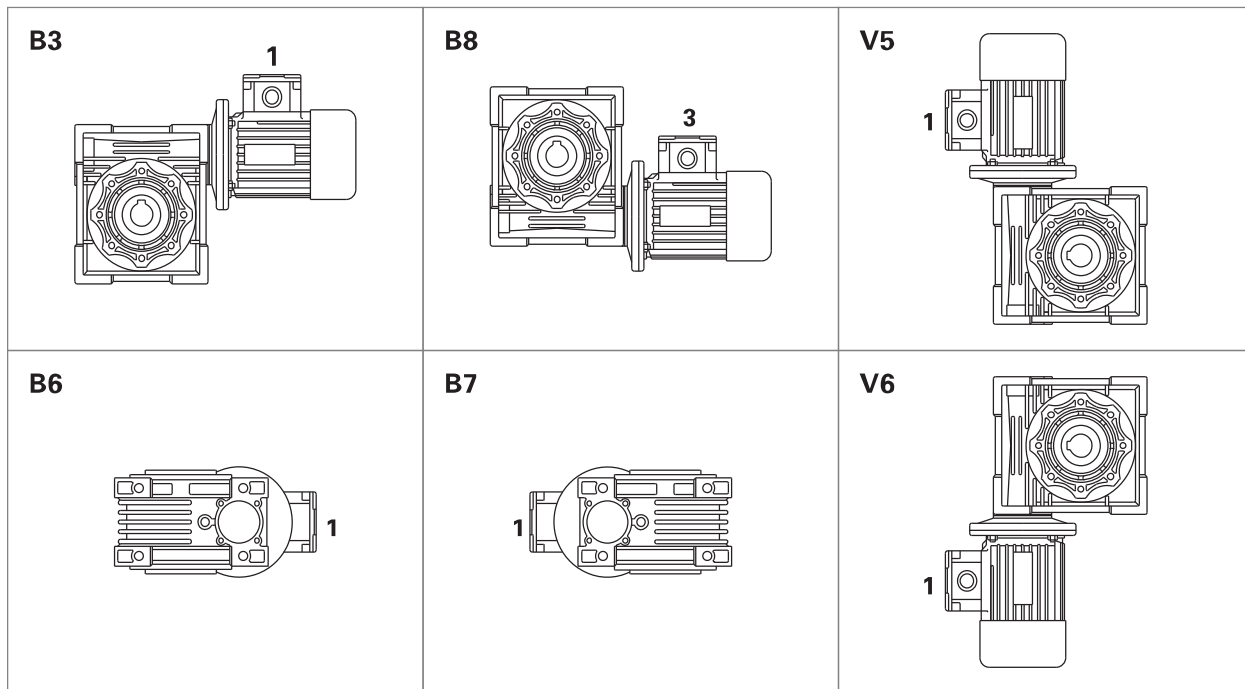
NMRV-063-30-VS-F1(FA)-AS-80B5-0.75kW-B3	
NMRV	蜗轮减速机 Worm geared motor
NRV	蜗轮减速机 (配接输入轴) Worm reduction unit
063	蜗轮减速机中心距 Center distance
30	减速比 Reduction ratio
VS	双向输入轴 Double input shaft
AS	单向输出轴 Single output shaft
PAM	电机联接 Fitted for motor coupling
0.75kW	电机功率 Electric motor power
F1(FA)	输出法兰位置及型号 Output flange
AB	双向输出轴 Double output shaft
80B5	电机机座号和安装结构形式 Motor mounting facility
B3	安装方位 Mounting position

马达直联尺寸 Predisposition

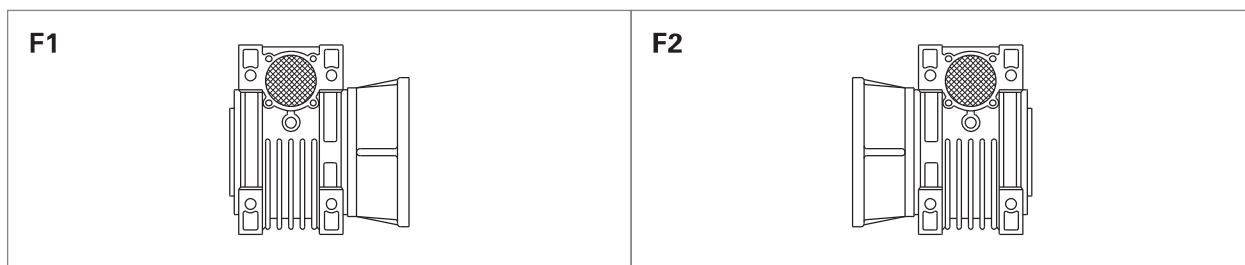


NMRV	PAM IEC	N	M	P	D											
					5	7.5	10	15	20	25	30	40	50	60	80	100
025	56B14	50	65	80	9	9	9	9	9	—	9	9	9	9	—	—
030	63B5	95	115	140	11	11	11	11	11	11	11	11	11	—	—	—
	63B14	60	75	90	—	—	—	—	—	—	—	—	—	—	—	—
	56B5	80	100	120	9	9	9	9	9	9	9	9	9	9	9	—
	56B14	50	65	80	—	—	—	—	—	—	—	—	—	—	—	—
040	71B5	110	130	160	14	14	14	14	14	14	14	14	—	—	—	—
	71B14	70	85	105	—	—	—	—	—	—	—	—	—	—	—	—
	63B5	95	115	140	11	11	11	11	11	11	11	11	11	11	11	11
	63B14	60	75	90	—	—	—	—	—	—	—	—	—	—	—	—
	56B5	80	100	120	—	—	—	—	—	—	—	—	9	9	9	9
050	80B5	130	165	200	19	19	19	19	19	19	19	—	—	—	—	—
	80B14	80	100	120	—	—	—	—	—	—	—	—	—	—	—	—
	71B5	110	130	160	14	14	14	14	14	14	14	14	14	14	14	—
	71B14	70	85	105	—	—	—	—	—	—	—	—	—	—	—	—
	63B5	95	115	140	—	—	—	—	—	—	—	11	11	11	11	11
063	90B5	130	165	200	24	24	24	24	24	24	24	—	—	—	—	—
	90B14	95	115	140	—	—	—	—	—	—	—	—	—	—	—	—
	80B5	130	165	200	19	19	19	19	19	19	19	19	19	19	—	—
	80B14	80	100	120	—	—	—	—	—	—	—	—	—	—	—	—
	71B5	110	130	160	—	—	—	—	—	—	—	14	14	14	14	14
	71B14	70	85	105	—	—	—	—	—	—	—	—	—	—	—	—
075	100/112B5	180	215	250	28	28	28	—	—	—	—	—	—	—	—	—
	100/112B14	110	130	160	—	—	—	—	—	—	—	—	—	—	—	—
	90B5	130	165	200	24	24	24	24	24	24	24	24	—	—	—	—
	90B14	95	115	140	—	—	—	—	—	—	—	—	—	—	—	—
	80B5	130	165	200	—	—	—	—	19	19	19	19	19	19	19	19
	80B14	80	100	120	—	—	—	—	—	—	—	—	—	—	—	—
	71B5	110	130	160	—	—	—	—	—	—	—	—	14	14	14	14
090	100/112B5	180	215	250	28	28	28	28	28	28	28	—	—	—	—	—
	100/112B14	110	130	160	—	—	—	—	—	—	—	—	—	—	—	—
	90B5	130	165	200	24	24	24	24	24	24	24	24	24	24	—	—
	90B14	95	115	140	—	—	—	—	—	—	—	—	—	—	—	—
	80B5	130	165	200	—	—	—	—	—	—	—	19	19	19	19	19
	80B14	80	100	120	—	—	—	—	—	—	—	—	—	—	—	—
110	132B5	230	265	300	—	38	38	38	38	—	—	—	—	—	—	—
	100/112B5	180	215	250	—	28	28	28	28	28	28	28	28	28	—	—
	90B5	130	165	200	—	—	—	—	—	24	24	24	24	24	24	24
	80B5	130	165	200	—	—	—	—	—	—	—	—	—	—	19	19
130	132B5	230	265	300	—	38	38	38	38	38	38	38	—	—	—	—
	100/112B5	180	215	250	—	—	—	—	—	28	28	28	28	28	28	28
	90B5	130	165	200	—	—	—	—	—	—	—	—	—	—	24	24

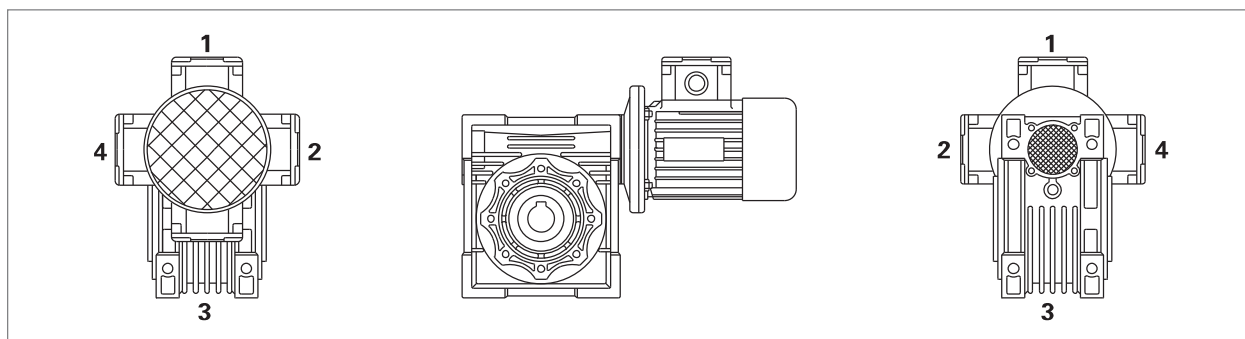
安装方位 Mounting Positions



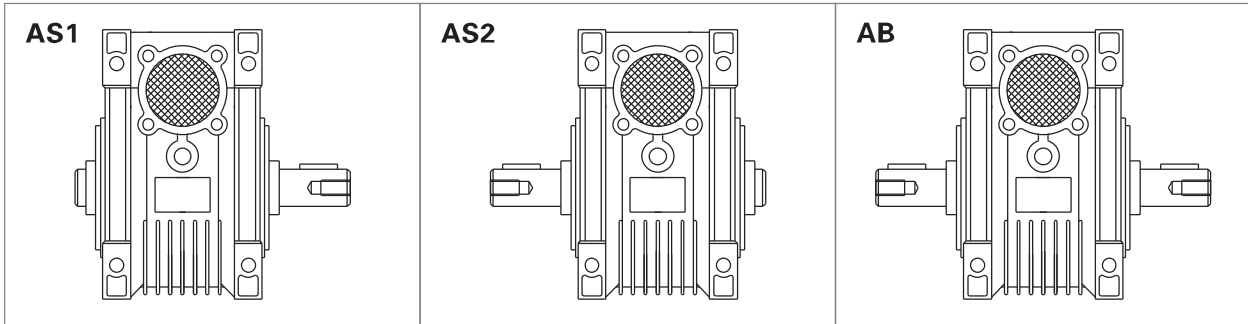
法兰位置 Flange F-FL



接线盒安装方式 Position of terminal box

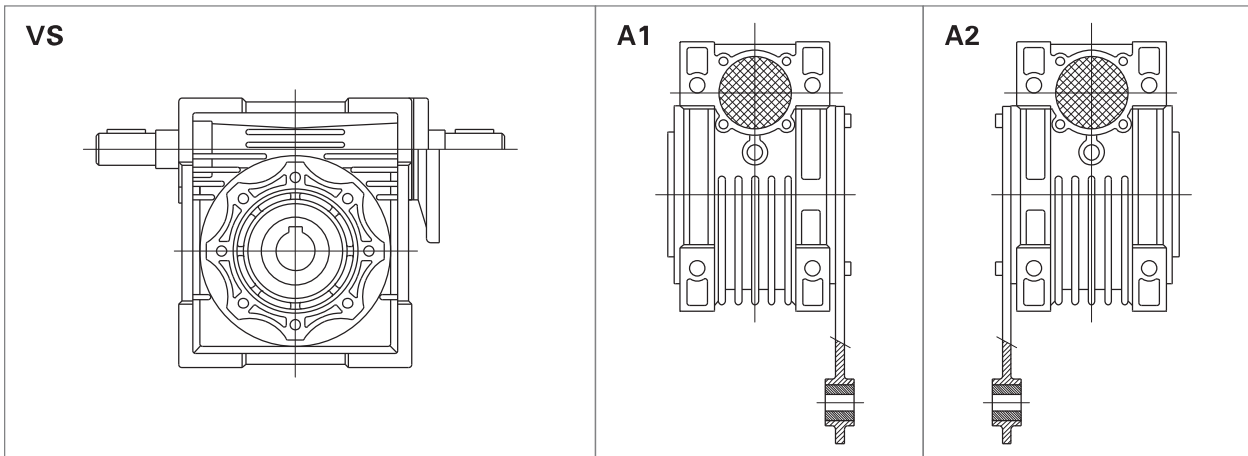


输出轴配置 Position of output shaft



双向输入轴 Double extension worm shaft

扭力臂配置 Position of torque arm



润滑油的选用 Choice of lubeicant

油量公升数 Q.ty of oil in litres									
NMRV	025	030	040	050	063	075	090	110	130
B3	0.02	0.04	0.08	0.15	0.3	0.55	1	3	4.5
B8								2.2	3.3
B6-B7								2.5	3.5
V5								3	4.5

		合成油 Synthetic	矿物油 Mineral
ISO	VG32	VG320	VG320
国内使用 Used in interior	广研润滑	WA460	
国外使用 Used in foreign Countries	IP	TELIUM VSF	MELLANA OIL 220
	SHELL	TIVELA OIL SC320	OMALA OIL 220
	AGIP	BLASIA S320	BLASIA 220
	MOBIL	GLYGOYLE 30	MOBILGEAR 220
	CASTROL	ALPHASYN PG 320	ALPHA MAX 220

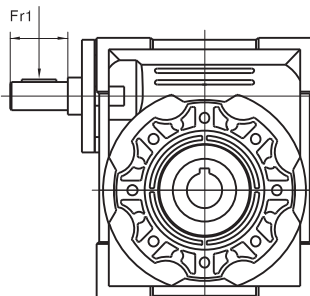
参数符号对应表 Parameter & symbol contrast table

P = 功率 Power (Kw)
M = 扭力 Torque (Nm)
n = 速度 Speed (rpm)
i = 减速比 Ratio
F = 负荷 Load (N)
m = 重量 Weight (kg)

η = 效率 Efficiency
 γ = 前置角 Helix angle
f.s. = 工作系数 Service factor
1 = 输入轴 Input shaft
2 = 输出轴 Output shaft
r = 径向 Radial

a = 轴向 Axial
s = 静态 Statical
d = 动态 Dynamic
max = 最大值
min = 最小值

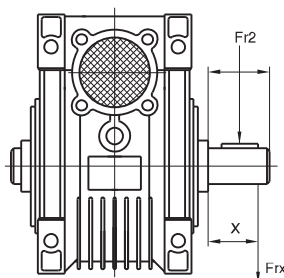
输入轴许用径向载荷 Applied mid-way along the input shaft



(N)

n1	NRV030	NRV040	NRV050	NRV063	NRV075	NRV090	NRV110	NRV130
1400	150	250	350	500	700	900	1200	1500
900	175	290	400	580	810	1040	1390	1740
500	210	350	490	700	980	1270	1700	2100

输出轴许用径向载荷 Applied mid-way along the output shaft



$$Fr_x = Fr \frac{a}{b+x}$$

(N)

n2	NRV025	NRV030	NRV040	NRV050	NRV063	NRV075	NRV090	NRV110	NRV130
400	390	530	1020	1400	1830	2160	2390	3020	3950
250	460	620	1200	1650	2150	2520	2800	3530	4610
150	550	740	1420	1960	2540	2990	3310	4180	5470
100	630	850	1620	2250	2910	3430	3800	4790	6260
60	740	1000	1920	2660	3450	4060	4500	5680	7420
40	850	1150	2200	3050	3950	4650	5150	6500	8500
25	990	1350	2570	3570	4620	5440	6020	7600	9940
10	1350	1830	3490	4840	6270	7380	8180	10320	13500

a	50	65	84	101	120	131	162	191	203
b	38	50	64	76	95	101	122	151	163

- 表中的数值为作用于出力轴中点的许可加载力。
- 当减速机为双出轴时，折算到轴端的径向合力不能超过表中规定的数值。
- 当径向力和轴向力同时施加时，最大许可的轴向推力为径向力的1/5。
- Above table is the allowed loading force on the midpoint of output shaft.
- When the reducer is with double output shafts, the resultant radial power at the edge of shaft should not exceed the values specified as in above table.
- The max allowed axial thrust is 1/5 of radial force while the radial force and axial force effected together.

性能参数表 Performance

P1(Kw)	n2(1/min)	M2(Nm)	F.S.	i	减速机型号Type	Fr2(N)
0.06	280	1.8	6.2	5	NMRV025	439
	186.7	2.6	4.2	7.5		503
	140	3.4	3.5	10		553
	93.3	4.9	2.5	15		633
	70	6.1	2.0	20		697
	46.7	8.2	1.6	30		798
	35	10	1.3	40		878
	28	12	0.9	50		946
	23.3	14	0.7	60		1006
	280	1.8	10.1	5	NMRV030	597
	186.7	2.6	6.9	7.5		683
	140	3.4	5.4	10		752
	93.3	4.7	3.8	15		861
	70	6	3.0	20		948
	56	7	3.0	25		1021
	46.7	8	2.5	30		1085
	35	9.7	1.9	40		1194
	28	11	1.5	50		1286
	23.3	13	1.3	60		1367
0.09	17.5	14	0.9	80	NMRV025	1504
	280	2.7	4.1	5		439
	186.7	3.9	2.8	7.5		503
	140	5.1	2.4	10		533
	93.3	7.3	1.6	15		633
	70	9.2	1.3	20		697
	46.7	12	1.1	30		798
	35	15	0.9	40		878
	280	2.7	6.7	5	NMRV030	597
	186.7	3.9	4.6	7.5		683
	140	5	3.6	10		752
	93.3	7.1	2.5	15		861
	70	9	2.0	20		948
	56	10	2.0	25		1021
	46.7	12	1.7	30		1085
	35	14	1.2	40		1194
	28	17	1.0	50		1286
	23.3	19	0.9	60		1367
0.12	28	19	2.0	50	NMRV040	2475
	23.3	21	1.7	60		2630
	17.5	26	1.3	80		2895
	14	29	1.0	100		3118
	280	3.6	5.1	5	NMRV030	597
	186.7	5.2	3.4	7.5		683
	140	6.7	2.7	10		752
	93.3	9.5	1.9	15		861
	70	12	1.5	20		948
	56	14	1.5	25		1021
	46.7	16	1.3	30		1085
	35	19	0.9	40		1194
	28	23	0.8	50		1286
	46.7	17.2	2.6	30	NMRV040	2087
	35	21	1.9	40		2298
	28	25	1.5	50		2475

性能参数表 Performance

P1(Kw)	n2(1/min)	M2(Nm)	F.S.	i	减速机型号Type	Fr2(N)
0.12	23	28	1.3	60	NMRV040	2630
	17.5	34	1.0	80		2895
	14	38	0.8	100		3118
	23.3	29	2.3	60	NMRV050	3610
	17.5	35	1.9	80		3973
	14	40	1.4	100		4280
0.18	280	5.3	3.4	5	NMRV030	597
	186.7	7.8	2.3	7.5		683
	140	10	1.8	10		752
	93.3	14	1.3	15		861
	70	18	1.0	20		948
	56	21	1.0	25		1021
	46.7	24	0.8	30		1085
	70	19.2	2.0	20	NMRV040	1824
	56	23	1.7	25		1964
	46.7	26	1.7	30		2087
	35	32	1.3	40		2298
	28	38	1.0	50		2475
	23.3	43	0.8	60		2630
	35	32.9	2.3	40	NMRV050	3153
	28	39	1.9	50		3397
	23.3	43	1.6	60		3610
	17.5	52	1.2	80		3973
	14	60	0.9	100		4280
0.22	280	6.5	2.8	5	NMRV030	597
	186.7	10	1.9	7.5		683
	140	12	1.5	10		752
	93.3	17	1.0	15		861
	70	22	0.8	20		948
	93.3	18.5	2.2	15	NMRV040	1657
	70	23	1.7	20		1824
	56	28	1.4	25		1964
	46.7	32	1.4	30		2087
	35	39	1.1	40		2298
	28	47	0.8	50		2475
	28	47.3	1.5	50	NMRV050	3397
	23.3	53	1.3	60		3610
	17.5	64	1.0	80		3973
0.25	280	7.6	4.5	5	NMRV040	1149
	186.7	11	3.6	7.5		1315
	140	14	2.8	10		1447
	93.3	21	1.9	15		1657
	70	27	1.5	20		1824
	56	32	1.2	25		1964
	46.7	36	1.3	30		2087
	35	44	0.9	40		2298
	70	26.9	2.7	20	NMRV050	2503
	56	32	2.2	25		2696
	46.7	37	2.3	30		2865
	35	46	1.7	40		3153
	28	54	1.4	50		3397
	23.3	60	1.1	60		3610
	17.5	72	0.9	80		3973

性能参数表 Performance

P1(Kw)	n2(1/min)	M2(Nm)	F.S.	i	减速机型号Type	Fr2(N)
0.25	28	56.3	2.4	50	NMRV063	4440
	23.3	63	2.0	60		4719
	17.5	78	1.6	80		5193
	14	87	1.4	100		5595
	17.5	81.9	2.3	80	NMRV075	6130
	14	94	1.9	100		6603
0.37	280	11.2	3.0	5	NMRV040	1149
	186.7	16	2.4	7.5		1315
	140	21	1.9	10		1447
	93.3	31	1.3	15		1657
	70	39	1.0	20		1824
	56	47	0.8	25		1964
	46.7	53	0.8	30		2087
	140	21.7	3.3	10	NMRV050	1987
	93.3	31	2.4	15		2274
	70	40	1.8	20		2503
	56	48	1.5	25		2696
	46.7	55	1.5	30		2865
	35	68	1.1	40		3153
	28	80	0.9	50		3397
	23.3	89	0.8	60		3610
	35	70.7	2.1	40	NMRV063	4122
	28	83	1.6	50		4440
	23.3	94	1.4	60		4719
	17.5	115	1.1	80		5193
	14	129	0.9	100		5595
	23.3	98.4	2.0	60	NMRV075	5569
	17.5	121	1.6	80		6130
	14	139	1.3	100		6603
0.55	280	16.7	2.0	5	NMRV040	1149
	186.7	24	1.6	7.5		1315
	140	32	1.3	10		1447
	93.3	46	0.9	15		1657
	280	16.7	3.7	5	NMRV050	1577
	186.7	25	2.9	7.5		1805
	140	32	2.2	10		1987
	93.3	46	1.6	15		2274
	70	59	1.2	20		2503
	56	71	1.0	25		2696
	46.7	81	1.0	30		2865
	70	60.8	2.2	20	NMRV063	3272
	56	73	1.8	25		3524
	46.7	83	1.9	30		3745
	35	105	1.4	40		4122
	28	124	1.1	50		4440
	23.3	140	0.9	60		4719
	35	108.1	2.0	40	NMRV075	4865
	28	129	1.6	50		5241
	23.3	146	1.4	60		5569
	17.5	180	1.1	80		6130
	14	206	0.9	100		6603
	17.5	189.1	1.5	80	NMRV090	6783
	14	221	1.2	100		7306

性能参数表 Performance

P1(Kw)	n2(1/min)	M2(Nm)	F.S.	i	减速机型号Type	Fr2(N)
0.55	17.5	201.1	2.6	80	NMRV110	8571
	14	236	2.0	100		9232
0.75	280	22.8	2.7	5	NMRV050	1577
	186.7	34	2.1	7.5		1805
	140	44	1.6	10		1987
	93.3	63	1.2	15		2274
	70	81	0.9	20		2503
	93.3	63.7	2.2	15	NMRV063	2973
	70	83	1.6	20		3272
	56	100	1.3	25		3524
	46.7	114	1.4	30		3745
	35	143	1.0	40		4122
	56	102.3	2.0	25	NMRV075	4160
	46.7	117	2.0	30		4421
	35	147	1.5	40		4865
	28	177	1.2	50		5241
	23.3	200	1.0	60		5569
	28	184.2	1.8	50	NMRV090	5799
	23.3	212	1.5	60		6163
	17.5	258	1.1	80		6783
	14	302	0.9	100		7306
	17.5	274.2	1.9	80	NMRV110	8571
	14	322	1.5	100		9232
1.1	186.7	49.5	2.6	7.5	NMRV063	2359
	140	65	2.0	10		2597
	93.3	93	1.5	15		2973
	70	122	1.1	20		3272
	56	146	0.9	25		3524
	46.7	167	1.0	30		3745
	93.3	95.7	2.1	15	NMRV075	3509
	70	123	1.7	20		3862
	56	150	1.3	25		4160
	46.7	171	1.3	30		4421
	35	216	1.0	40		4865
	35	225.1	1.6	40	NMRV090	5383
	28	270	1.3	50		5799
	23.3	311	1.0	60		6163
	28	281.4	2.3	50	NMRV110	7328
	23.3	324	1.9	60		7787
	17.5	402	1.3	80		8571
	14	473	1.0	100		9232
	17.5	408.2	2.1	80	NMRV130	11210
	14	480	1.5	100		12076
1.5	186.7	67.5	1.9	7.5	NMRV063	2359
	140	89	1.5	10		2597
	93.3	127	1.1	15		2973
	70	166	0.8	20		3272
	140	90	2.2	10	NMRV075	3065
	93.3	130	1.5	15		3509
	70	168	1.3	20		3862
	56	205	1.0	25		4160
	46.7	233	1.0	30		4421

性能参数表 Performance

P1(Kw)	n2(1/min)	M2(Nm)	F.S.	i	减速机型号Type	Fr2(N)
1.5	70	171.9	2.1	20	NMRV090	4273
	56	210	1.6	25		4603
	46.7	239	1.6	30		4890
	35	307	1.2	40		5383
	28	368	0.9	50		5799
	23.3	424	0.8	60		6163
	35	319.2	2.2	40	NMRV110	6803
	28	384	1.7	50		7328
	23.3	442	1.4	60		7787
	17.5	548	0.9	80		8571
	17.5	556.6	1.5	80	NMRV130	11210
	14	655	1.1	100		12076
2.2	186.7	100.2	1.8	7.5	NMRV075	2785
	140	132	1.5	10		3065
	93.3	191	1.0	15		3509
	186.7	101.3	2.9	7.5	NMRV090	3081
	140	134	2.3	10		3391
	93.3	194	1.9	15		3882
	70	252	1.4	20		4273
	56	308	1.1	25		4603
	46.7	315	1.2	30		4891
	70	255.1	2.5	20	NMRV110	5399
	56	315	2.2	25		5816
	46.7	356	2.0	30		6181
	35	468	1.5	40		6803
	28	563	1.2	50		7328
	23.3	648	1.0	60		7787
	35	468.2	2.2	40	NMRV130	8897
	28	563	1.7	50		9584
	23.3	684	1.4	60		10185
	17.5	816	1.0	80		11210
	186.7	136.6	1.4	7.5	NMRV075	2785
	140	180	1.1	10		3065
	93.3	261	0.8	15		3509
3	186.7	138.1	2.1	7.5	NMRV090	3081
	140	182	1.7	10		3391
	93.3	264	1.4	15		3882
	70	344	1.0	20		4273
	56	420	0.8	25		4603
	46.7	479	0.9	30		4891
	93.3	264	2.5	15	NMRV110	4905
	70	348	1.9	20		5399
	56	430	1.6	25		5816
	46.7	485	1.5	30		6181
	35	638	1.1	40		6803
	28	767	0.9	50		7328
	56	429.8	2.2	25	NMRV130	7607
	46.7	491	2.1	30		8084
	35	638	1.6	40		8897
	28	767	1.3	50		9584
	23.3	884	1.0	60		10185
	17.5	1113	0.8	80		11210

性能参数表 Performance

P1(Kw)	n2(1/min)	M2(Nm)	F.S.	i	减速机型号Type	Fr2(N)
4	186.7	184.2	1.6	7.5	NMRV090	3081
	140	243	1.3	10		3391
	93.3	352	1.0	15		3882
	70	458	0.8	20		4273
	140	242.8	2.5	10	NMRV110	4285
	93.3	352	1.9	15		4905
	70	464	1.4	20		5399
	56	573	1.2	25		5816
	46.7	647	1.1	30	NMRV130	6181
	56	573	1.6	25		7607
	46.7	655	1.6	30		8084
	35	851	1.2	40		8897
	28	1023	1.0	50		9584
	23.3	1179	0.8	60		10185
4.8	186.7	211	1.3	7.5	NMRV090	3081
	140	291	1.1	10		3391
	93.3	422	0.9	15		3882
	186.7	221	2.5	7.5	NMRV110	3893
	140	291	2.1	10		4285
	93.3	422	1.6	15		4905
	70	557	1.2	20		5399
	56	688	1.0	25	NMRV130	5816
	46.7	687.6	1.4	25		7607
	46.7	786	1.3	30		8084
	35	1022	1.0	40		8897
	28	1228	0.8	50		9584
5.5	186.7	253.2	2.2	7.5	NMRV110	3893
	140	334	1.8	10		4285
	93.3	484	1.4	15		4905
	70	638	1.0	20		5399
	140	333.9	2.5	10	NMRV130	5605
	93.3	490	1.9	15		6416
	70	645	1.4	20		7062
	56	788	1.2	25		7607
	46.7	900	1.2	30		8084
	35	1171	0.9	40		8897
7.5	186.7	345.3	1.6	7.5	NMRV110	3893
	140	455	1.3	10		4285
	93.3	660	1.0	15		4905
	186.7	349.2	2.1	7.5	NMRV130	5092
	140	455	1.8	10		5605
	93.3	668	1.4	15		6416
	70	880	1.0	20		7062
	56	1074	0.9	25		7607
	46.7	1228	0.8	30		8084
	35	1596	0.7	40		8897
9.2	186.7	423.6	1.3	7.5	NMRV110	3893
	186.7	428.3	1.8	7.5	NMRV130	5092
	140	559	1.5	10		5605
	93.3	819	1.1	15		6416
	70	1079	0.8	20		7062
	56	1318	0.7	25		7607

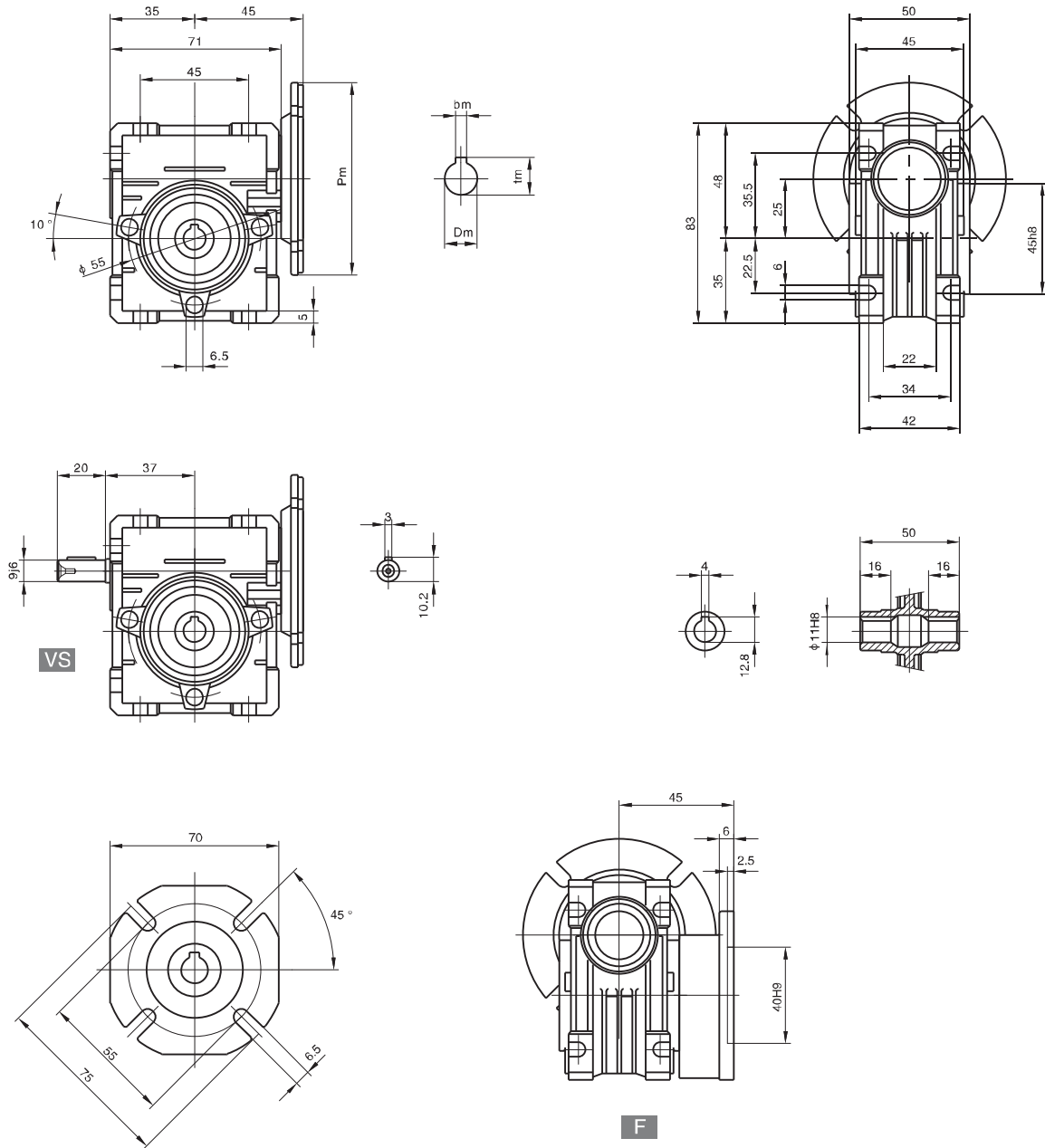
NRV性能参数表 Performance
(n1=1400)

M2(Nm)	i	P1(Kw)	n2(1/min)	减速机型号Type	Fr2(N)	Fr1(N)
18	5	0.6	280	NRV030	597	150
18	7.5	0.4	186.7		683	150
18	10	0.3	140		752	169
18	15	0.2	93.3		861	169
18	20	0.2	70		984	190
21	25	0.2	56		1021	210
20	30	0.2	46.7		1085	210
18	40	0.1	35		1194	210
17	50	0.1	28		1286	210
16	60	0.1	23.3		1367	210
13	80	0.1	17.5		1504	210
34	5	1.1	280	NRV040	1149	250
40	7.5	0.9	186.7		1315	294
40	10	0.7	140		1447	331
40	15	0.5	93.3		1657	331
39	20	0.4	70		1824	350
38	25	0.3	56		1964	350
45	30	0.3	46.7		2087	350
41	40	0.2	35		2298	350
39	50	0.2	28		2475	350
36	60	0.2	23.3		2630	350
33	80	0.1	17.5		2895	350
29	100	0.1	14		3118	350
62	5	2.0	280	NRV050	1577	350
71	7.5	1.6	186.7		1805	401
72	10	1.2	140		1987	490
74	15	0.9	93.3		2274	490
73	20	0.7	70		2503	490
70	25	0.5	56		2696	490
84	30	0.6	46.7		2865	490
76	40	0.4	35		3153	490
73	50	0.3	28		3397	490
68	60	0.3	23.3		3610	490
65	80	0.2	17.5		3973	490
55	100	0.2	14		4280	490
128	7.5	2.8	186.7	NRV063	2359	500
130	10	2.2	140		2597	571
140	15	1.6	93.3		2973	615
135	20	1.2	70		3272	667
130	25	1.0	56		3524	700
160	30	1.1	46.7		3745	700
145	40	0.8	35		4122	700
135	50	0.6	28		4440	700
130	60	0.5	23.3		4719	700
122	80	0.4	17.5		5193	700
118	100	0.3	14		5595	700

NRV性能参数表 Performance
(n1=1400)

M2(Nm)	i	P1(Kw)	n2(1/min)	减速机型号Type	Fr2(N)	Fr1(N)
185	7.5	4.1	186.7	NRV075	2785	700
195	10	3.2	140		3065	830
200	15	2.3	93.3		3509	851
210	20	1.9	70		3862	980
200	25	1.5	56		4160	980
230	30	1.5	46.7		4421	980
220	40	1.1	35		4865	980
210	50	0.9	28		5241	980
200	60	0.8	23.3		5569	980
190	80	0.6	17.5		6130	980
180	100	0.5	14		6603	980
290	7.5	6.3	186.7	NRV090	3081	900
310	10	5.1	140		3391	1082
360	15	4.1	93.3		3882	1257
355	20	3.1	70		4273	1270
340	25	2.4	56		4603	1270
410	30	2.6	46.7		4891	1270
360	40	1.8	35		5383	1270
340	50	1.4	28		5799	1270
320	60	1.1	23.3		6163	1270
285	80	0.8	17.5		6783	1270
370	100	0.7	14		7306	1270
552	7.5	12	186.7	NRV110	3893	1200
598	10	9.8	140		4285	1463
656	15	7.5	93.3		4905	1604
644	20	5.6	70		5399	1700
679	25	4.7	56		5816	1700
725	30	4.5	46.7		6181	1700
702	40	3.3	35		6803	1700
660	50	2.6	28		7328	1700
616	60	2.1	23.3		7787	1700
515	80	1.4	17.5		8571	1700
483	100	1.1	14		9232	1700
750	7.5	16.1	186.7	NRV130	5092	1500
820	10	13.5	140		5605	1845
920	15	10.3	93.3		6416	2070
910	20	7.8	70		7062	2100
930	25	6.5	56		7607	2100
1040	30	6.4	46.7		8084	2100
1050	40	4.9	35		8897	2100
980	50	3.8	28		9584	2100
900	60	3.1	23.3		10185	2100
840	80	2.3	17.5		11210	2100
740	100	1.7	14		12076	2100

减速机外型尺寸 Dimensions **NMRV025**

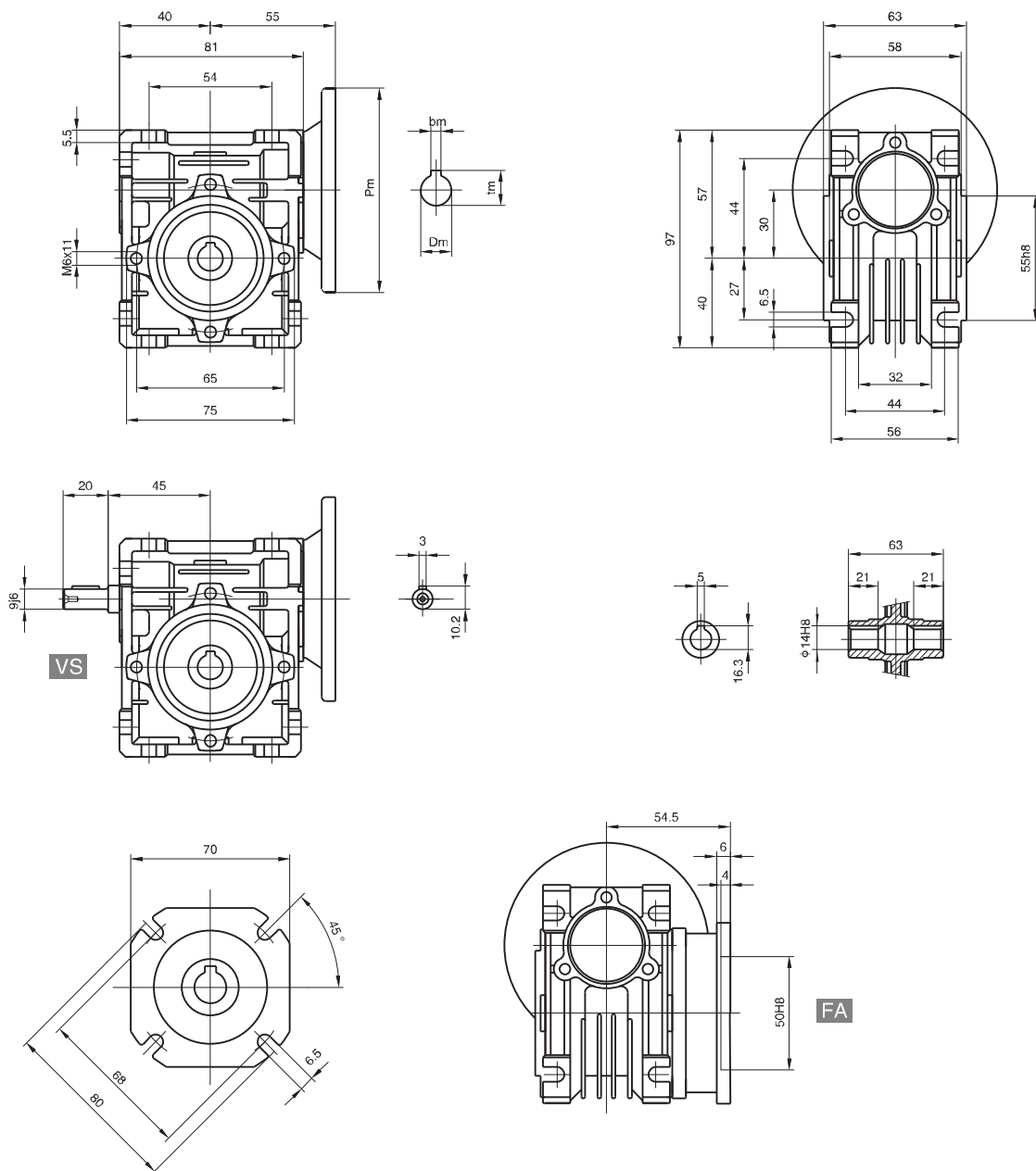


*不带马达重量为: 0.7kg
*Weight without motor: 0.7kg

输入法兰可配I(R)K系列马达 I (R) K series motors
法兰尺寸 Flange size: 70×70、80×80、90×90

马达型号 Motor model	功率 Power (W)			
3I(R)K	10	15	20	30
4I(R)K	25	30	40	
5I(R)K	40	60	90	120

减速机外型尺寸 Dimensions NMRV030

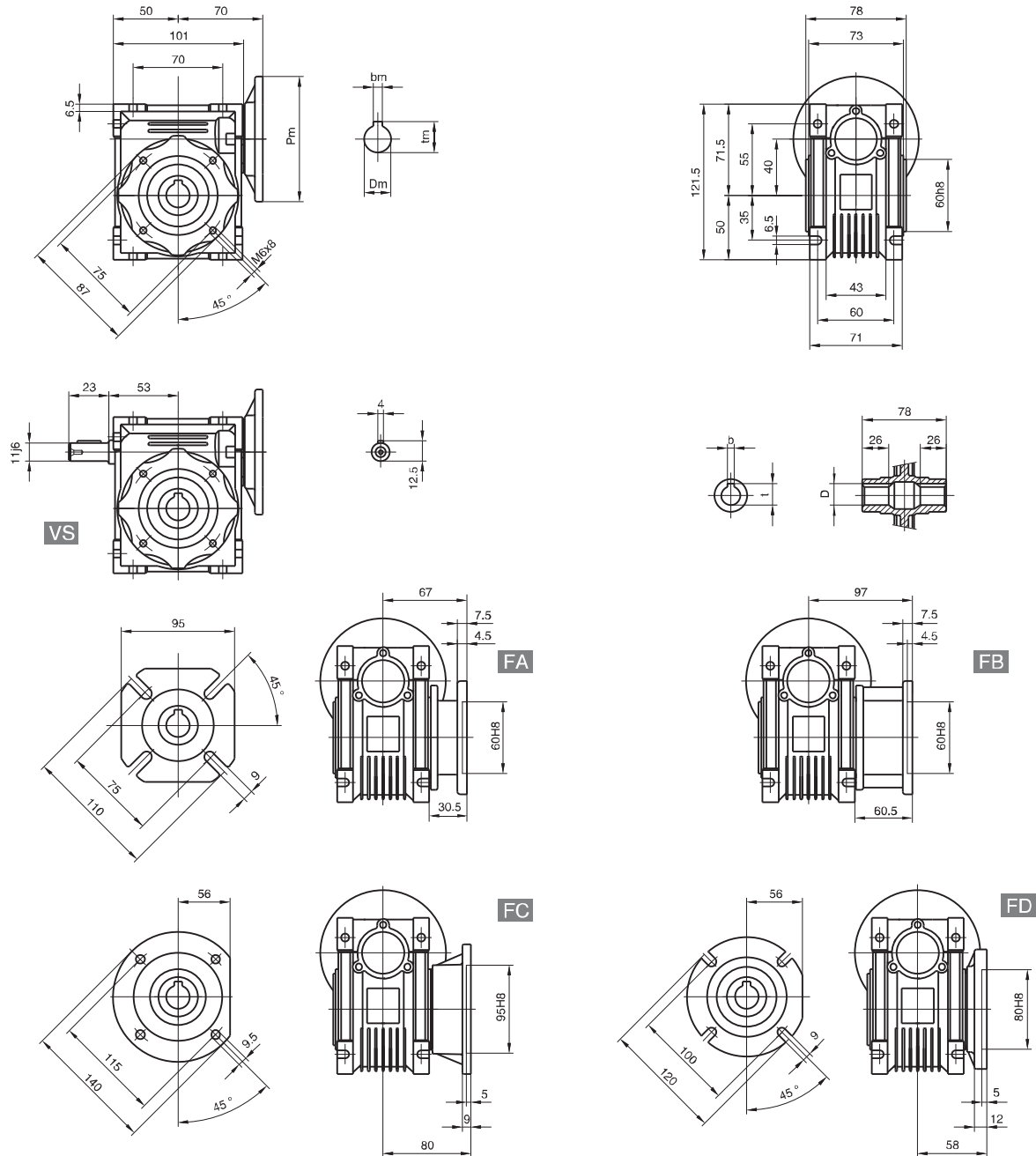


*不带马达重量为: 1.2kg
*Weight without motor: 1.2kg

输入法兰可配I(R)K系列马达 I (R) K series motors
法兰尺寸 Flange size: 80 × 80、90 × 90、104 × 104

马达型号 Motor mode	功率 Power (W)				
4I(R)K	25	30	40		
5I(R)K	40	60	90	120	
6I(R)K	70	120	140	180	200

减速机外型尺寸 Dimensions NMRV040



输出/Output		
D H8	b	t
18 (19)	6 (6)	20.8 (21.8)

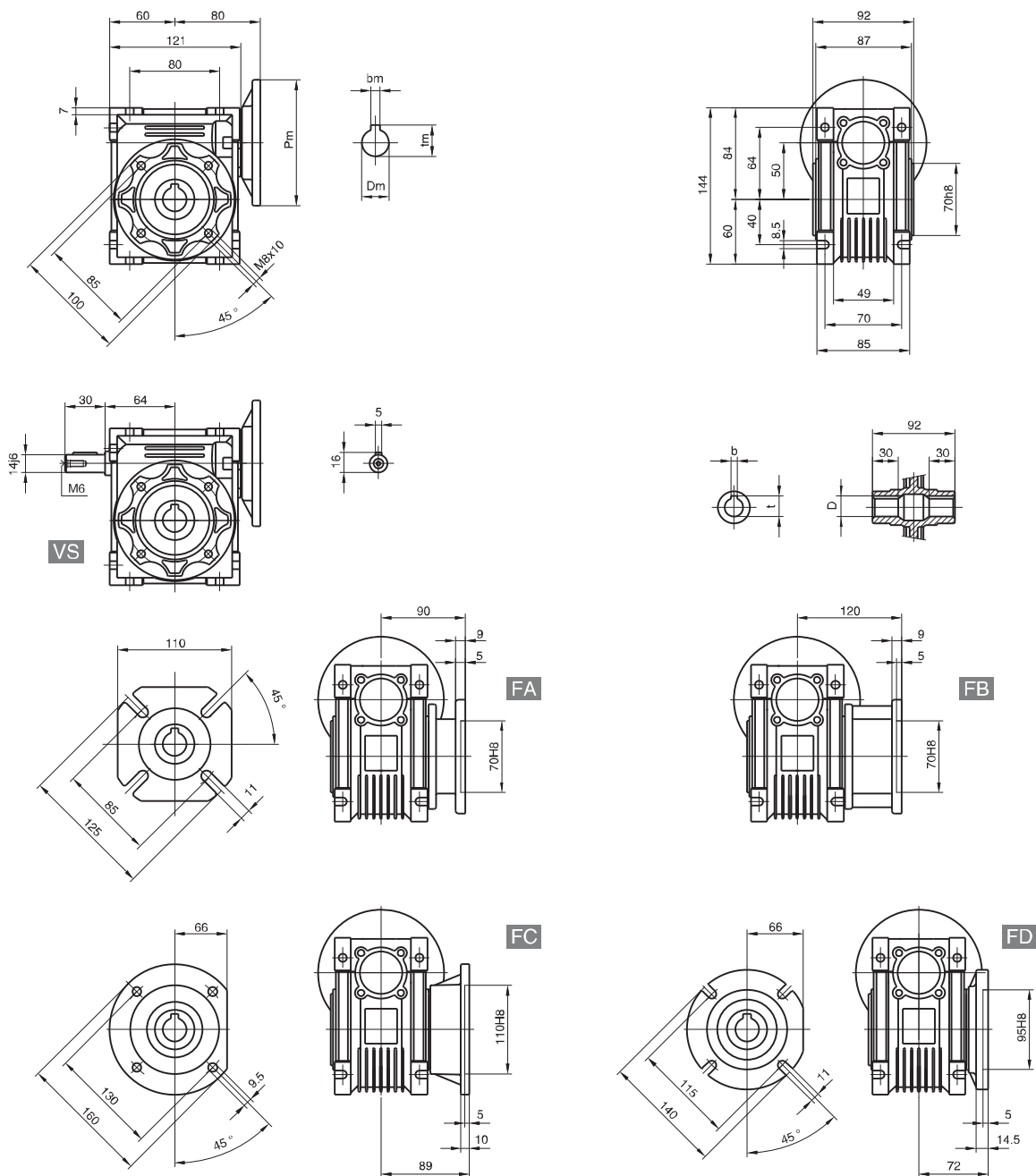
(..)根据用户要求定制 Only on request

*不带马达重量为: 2.3kg Weight without motor: 2.3kg

输入法兰可配I(R)K系列马达 I (R) K series motors
法兰尺寸 Flange size: 90×90、104×104

马达型号 Motor model	功率 Power (W)			
5I(R)K	40	60	90	120
6I(R)K	70	120	140	180
			200	

减速机外型尺寸 Dimensions NMRV050



输出/Output		
D H8	b	t
25 (24)	8 (8)	28.3 (27.3)

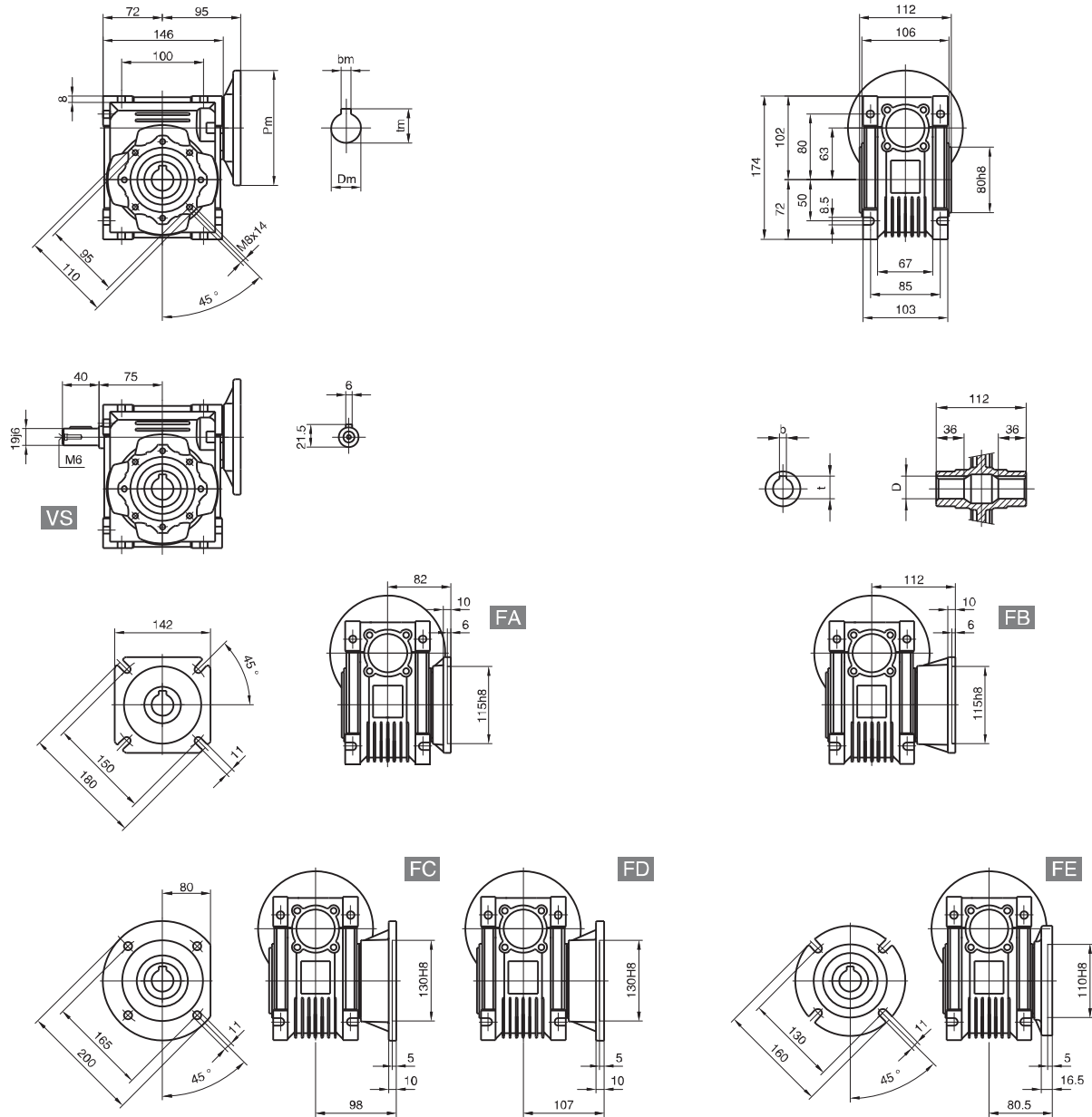
(..)根据用户要求定制 Only on request

*不带马达重量为: 3.5kg Weight without motor: 3.5kg

输入法兰可配I(R)K系列马达 I (R) K series motors
法兰尺寸 Flange size: 104 × 104

马达型号 Motor model	功率 Power (W)				
6I(R)K	70	120	140	180	200

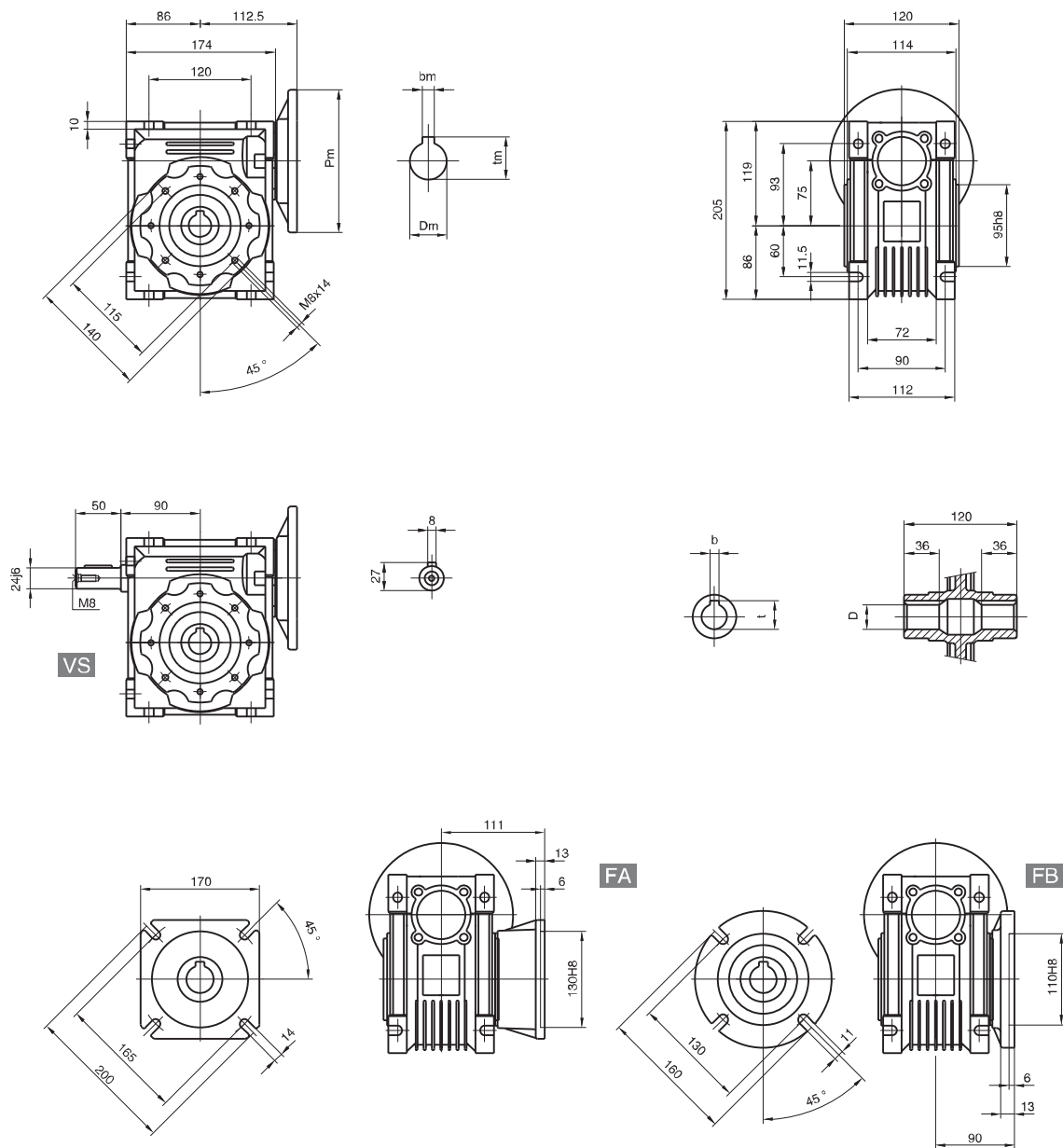
减速机外型尺寸 Dimensions NMRV063



输出/Output		
D H8	b	t
25 (28)	8 (8)	28.3 (31.3)

(...)根据用户要求定制 Only on request
*不带马达重量为: 6.2kg Weight without motor: 6.2kg

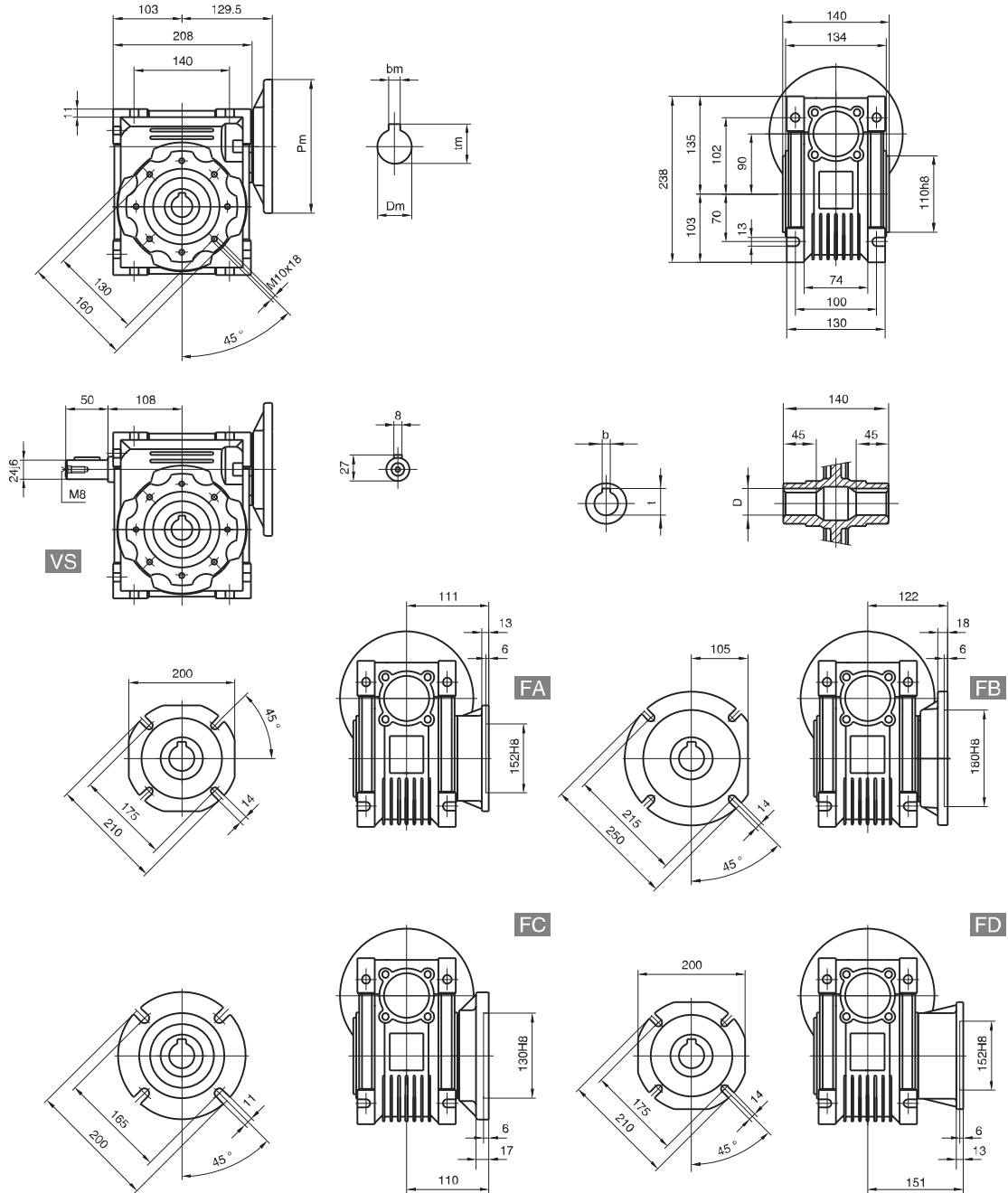
减速机外型尺寸 Dimensions NMRV075



输出/Output		
D H8	b	t
28 (35)	8 (10)	31.3 (38.3)

(..)根据用户要求定制 Only on request
*不带马达重量为: 9kg Weight without motor: 9kg

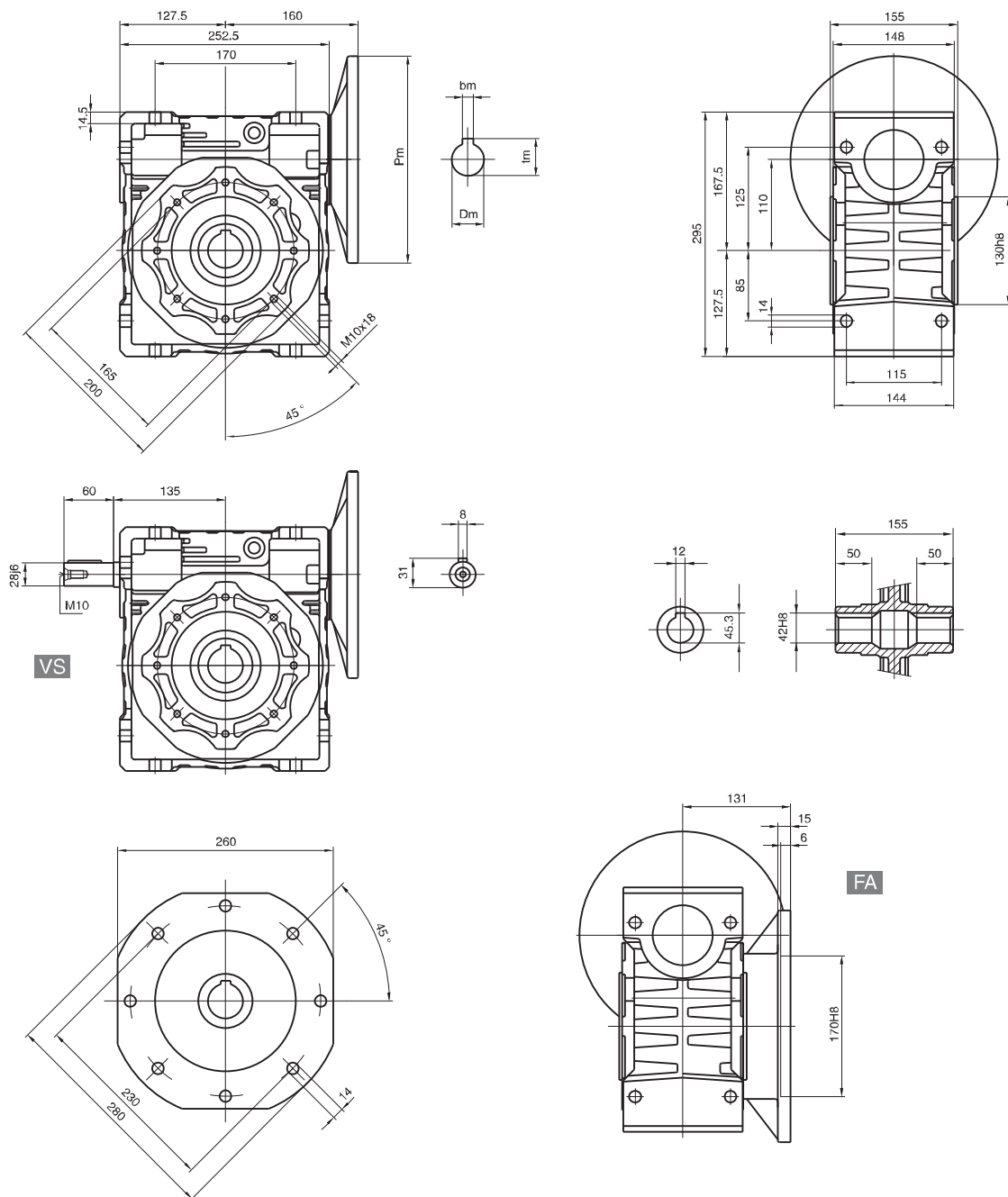
减速机外型尺寸 Dimensions **NMRV090**



输出/Output		
D H8	b	t
35	10	38.3
(38)	(10)	(41.3)

(..)根据用户要求定制 Only on request
*不带马达重量为: 13kg Weight without motor: 13kg

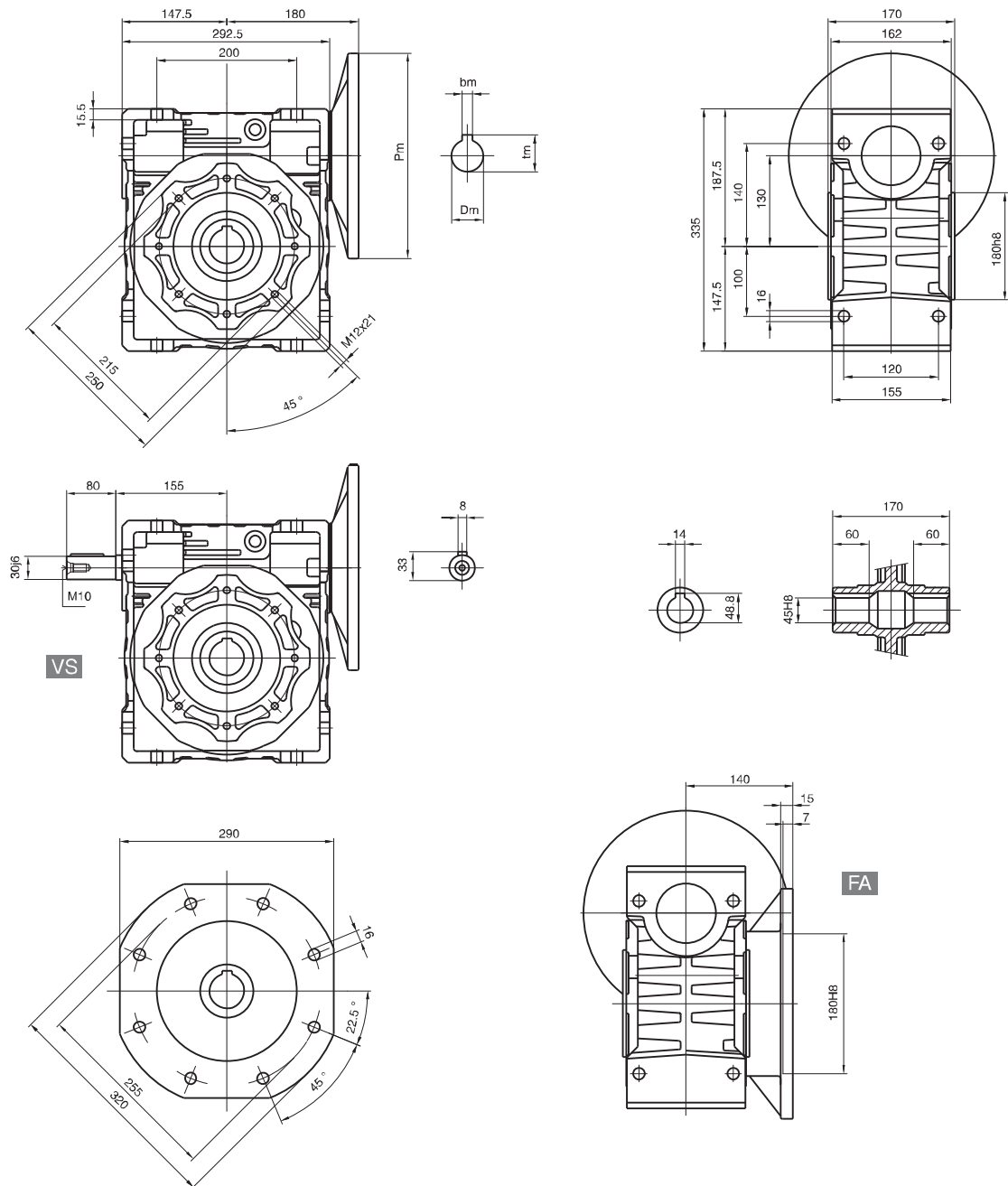
减速机外型尺寸 Dimensions NMRV110



(...)根据用户要求定制 Only on request

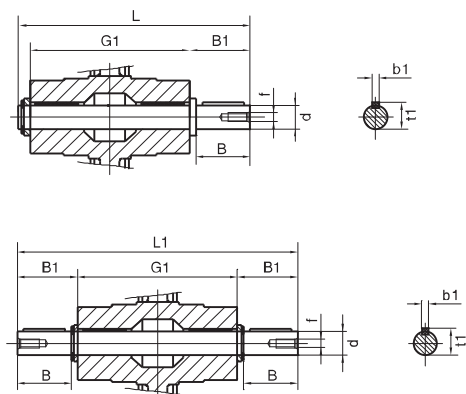
*不带马达重量为: 35kg Weight without motor: 35kg

减速机外型尺寸 Dimensions NMRV130



(..)根据用户要求定制 Only on request
*不带马达重量为: 48kg Weight without motor: 48kg

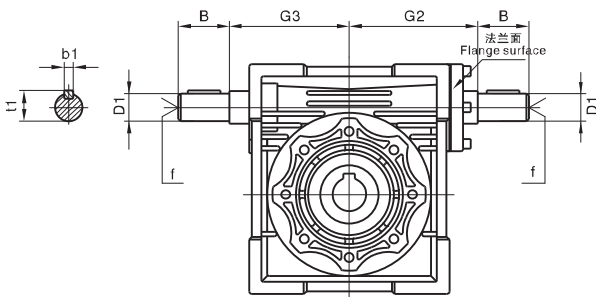
单向/双向输出轴尺寸 Sizes of double extension worm shaft



	d	B	B1	G1	L	L1	f	b1	t1
025	11g6 (9)	23 (25)	25.5 (30)	50	81 (85.5)	101	—	4 (3)	12.5 (10.2)
030	14 g6	30	32.5	63	102	128	M6	5	16
040	18 h6	40	43	78	128	164	M6	6	20.5
050	25 h6	50	53.5	92	153	199	M10	8	28
063	25 h6	50	53.5	112	173	219	M10	8	28
075	28 h6	60	63.5	120	192	247	M10	8	31
090	35 h6	80	84.5	140	234	309	M12	10	38
110	42 h6	80	84.5	155	249	324	M16	12	45
130	45 h6	80	85	170	265	340	M16	14	48.5

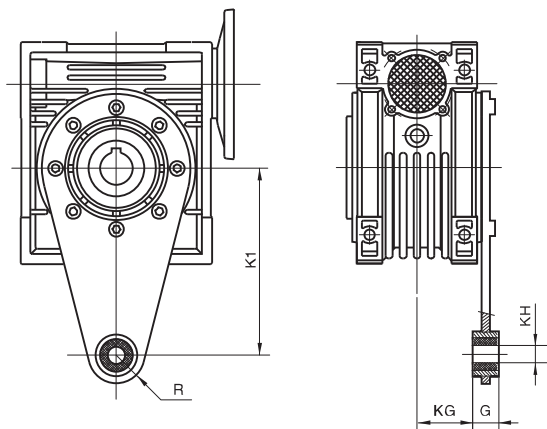
注：输出轴可按用户要求定制 Only on request

同向输出轴尺寸 Sizes of double extension worm shaft



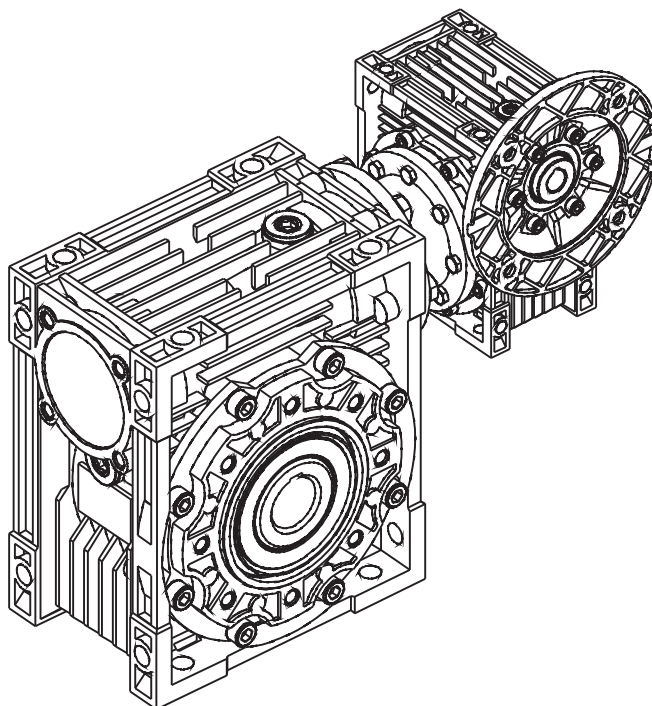
	G2, G3	D1(j6)	B	f	b1	t1
030	45	9	20	—	3	10.2
040	53	11	23	—	4	12.5
050	64	14	30	M6	5	16
063	75	19	40	M6	6	21.5
075	90	24	50	M8	8	27
090	108	24	50	M8	8	27
110	135	28	60	M10	8	31
130	155	30	80	M10	8	33

扭力臂尺寸 Sizes of torque arm



	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
110	250	30	62	25	35
130	250	30	69	25	35

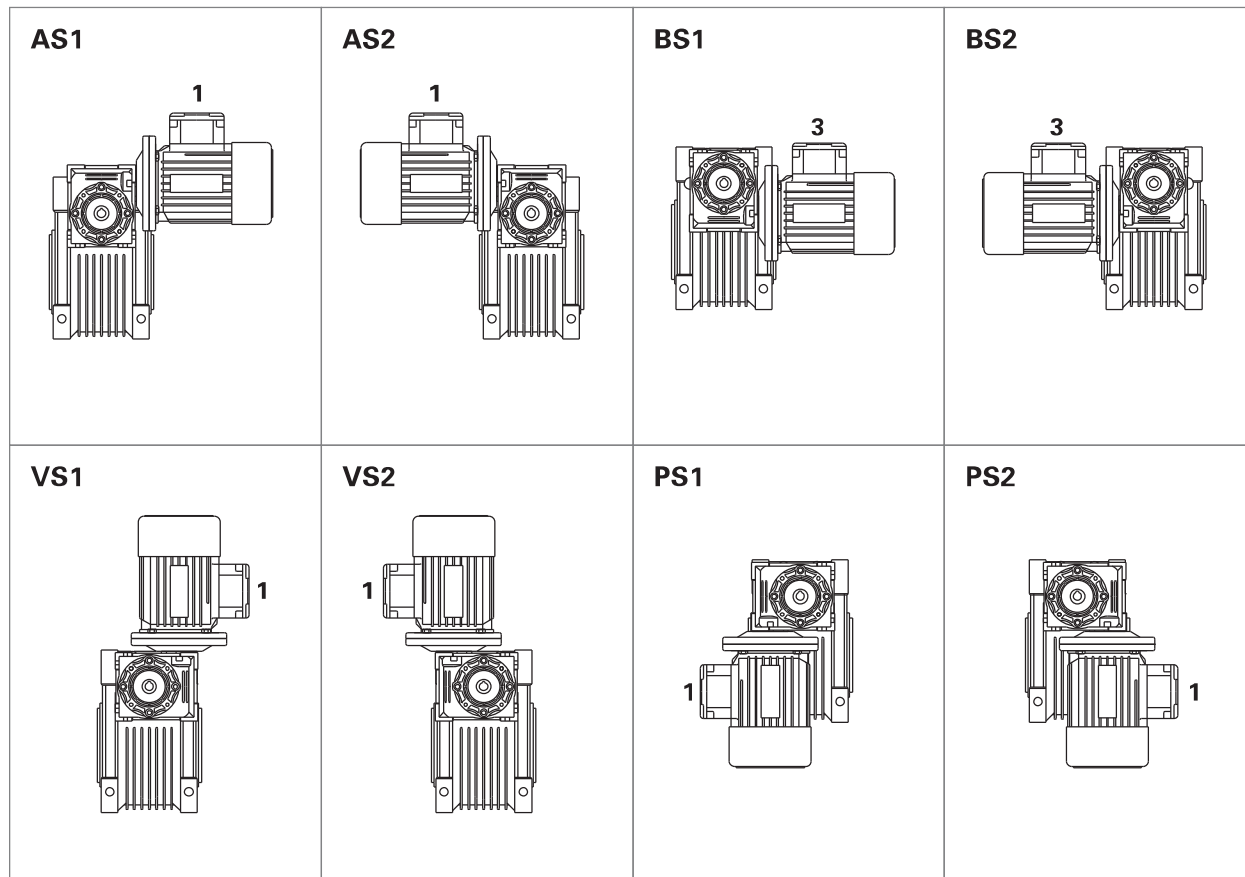
NMRV-NMRV



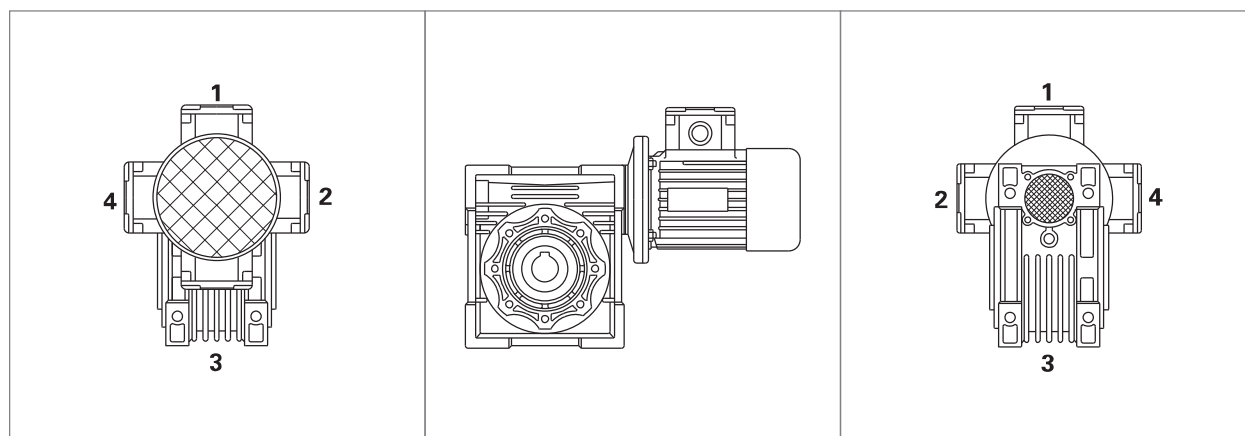
NMRV-NMRV型号标记 NMRV-NMRV Model & marker

NMRV-040/090-500-VS-F1(FA)-AS-80B5-0.75kW-AS1			
NMRV+NMRV	双蜗轮减速机 Combined worm geared motor	PAM	马达联接 Fitted for motor coupling
NRV+NMRV	配输入轴双蜗轮减速机 Combined worm reduction unit	0.75kW	马达功率 Electric motor power
040/090	蜗轮减速机中心距 Center distance	F1(FA)	输出法兰位置及型号 Output flange
500	减速比 Reduction ratio	AB	双向输出轴 Double output shaft
VS	双向输入轴 Double input shaft	80B5	电机机座号和安装结构形式 Motor mounting facility
AS	单向输出轴 Single output shaft	AS1	安装方位 Mounting position

NMRV-NMRV安装方位 Mounting positions



接线盒安装方式 Position of terminal box





NMRV-NMRV参数表 Parameter table

型号 Type	i	n2	P1 kW1	M2 (Nm)	i1	i2
NRV 030/040	300	4.7	0.08	73	10	30
	400	3.5	0.06	65	10	40
	500	2.8	0.04	61	20	25
	600	2.3	0.04	73	20	30
	750	1.9	0.04	73	25	30
	900	0.6	0.03	73	30	30
	1200	1.2	0.02	65	30	40
	1500	0.9	0.02	73	50	30
	1800	0.8	0.02	73	60	30
	2400	0.58	0.01	65	60	40
	3200	0.4	0.01	65	80	40
	4000	0.4	0.01	33	50	80
NRV 030/050	5000	0.28	0.01	29	50	100
	300	4.7	0.15	145	10	30
	400	3.5	0.1	124	10	40
	500	2.8	0.09	120	10	50
	600	2.3	0.08	145	20	30
	750	1.9	0.07	145	25	30
	900	1.6	0.06	145	30	30
	1200	1.2	0.04	124	30	40
	1500	0.93	0.04	145	50	30
	1800	0.78	0.04	145	60	30
	2400	0.6	0.03	124	60	40
	3000	0.5	0.02	120	60	50
NRV 030/063	4000	0.35	0.02	82	50	80
	4800	0.29	0.02	82	60	80
	300	4.7	0.24	230	7.5	40
	400	3.5	0.19	230	10	40
	500	2.8	0.15	216	10	50
	600	2.3	0.13	230	15	40
	750	1.9	0.11	216	15	50
	900	1.6	0.09	198	15	60
	1200	1.2	0.08	230	30	40
	1500	0.93	0.06	216	30	50
	1800	0.78	0.05	198	30	60
	2400	0.58	0.05	230	60	40
NRV 040/075	3000	0.47	0.04	216	60	50
	4000	0.35	0.03	172	50	80
	5000	0.28	0.02	150	50	100
	300	4.7	0.36	390	10	30
	400	3.5	0.27	360	10	40
	500	2.8	0.21	320	10	50
	600	2.3	0.19	390	20	30
	750	1.9	0.16	390	25	30
	900	1.6	0.14	390	30	30
	1200	1.2	0.11	360	30	40
	1500	0.93	0.1	390	50	30
	1800	0.78	0.09	390	60	30
NRV 040/090	2400	0.58	0.07	360	60	40
	3000	0.47	0.05	320	60	50
	4000	0.35	0.04	250	50	80
	5000	0.28	0.03	230	50	100

型号 Type	i	n2	P1 kW1	M2 (Nm)	i1	i2
NRV 040/090	300	4.7	0.56	610	7.5	40
	400	3.5	0.43	610	10	40
	500	2.8	0.34	560	10	50
	600	2.3	0.3	610	15	40
	750	1.9	0.23	560	15	50
	900	1.6	0.19	505	15	60
	1200	1.2	0.17	610	30	40
	1500	0.93	0.14	560	30	50
	1800	0.78	0.11	505	30	60
	2400	0.58	0.11	610	60	40
	3000	0.47	0.08	560	60	50
	4000	0.35	0.08	460	50	80
NRV 050/110	5000	0.28	0.06	410	50	100
	300	4.7	0.95	1100	10	30
	400	3.5	0.69	1030	10	40
	500	2.8	0.56	1000	10	50
	600	2.3	0.48	1030	15	40
	750	1.9	0.43	1100	25	30
	900	1.6	0.38	1100	30	30
	1200	1.2	0.27	1030	30	40
	1500	0.93	0.28	1100	50	30
	1800	0.78	0.23	1100	60	30
	2400	0.58	0.17	1030	60	40
	3000	0.47	0.14	1000	60	50
NRV 063/130	4000	0.35	0.12	780	50	80
	5000	0.28	0.09	710	50	100
	300	4.7	1.48	1760	10	30
	400	3.5	1.09	1650	10	40
	500	2.8	0.86	1550	10	50
	600	2.3	0.76	1650	15	40
	750	1.9	0.66	1760	25	30
	900	1.6	0.58	1760	30	20
	1200	1.2	0.43	1650	30	40
	1500	0.93	0.39	1760	50	30
	1800	0.78	0.35	1760	60	20
	2400	0.58	0.25	1650	60	40
NRV 063/130	3000	0.47	0.2	1550	60	50
	4000	0.35	0.15	1220	50	80
	5000	0.28	0.11	1100	50	100

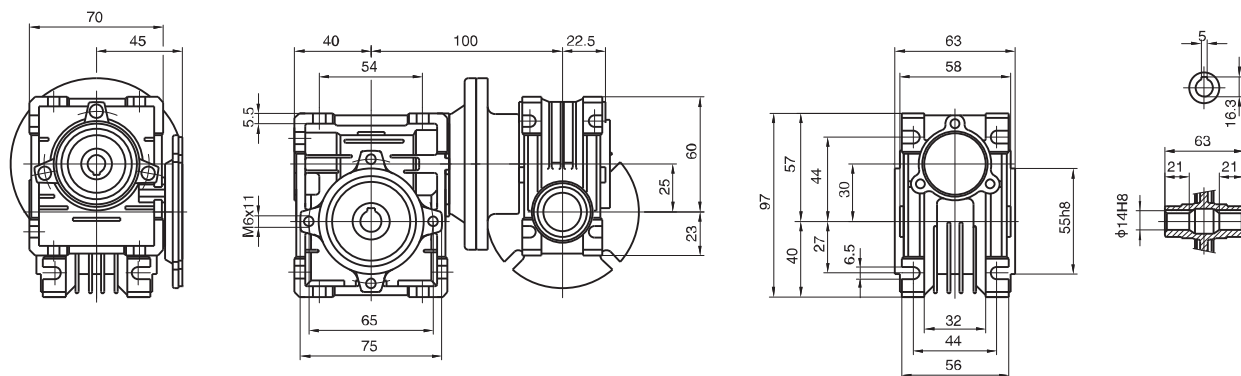
NMRV-NMRV参数表 Performance table

型号 Type	i	n2	P1 kW1	M2 (Nm)
NMRV030/040	300	4.7	0.09	88
	400	3.5	0.06	70
	500	2.8	0.06	96
	600	2.3	0.06	104
	750	1.9	0.06	121
	900	1.6	0.06	139
	1200	1.2	0.06	166
	1500	0.9	0.06	196
	1800	0.8	0.06	218
	2400	0.58	0.06	261
	3000	0.4	0.06	300
	5000	0.28	0.06	338
NMRV030/050	300	4.7	0.12	119
	400	3.5	0.12	142
	500	2.8	0.12	164
	600	2.3	0.09	159
	750	1.9	0.09	185
	900	1.6	0.09	212
	1200	1.2	0.06	169
	1500	0.93	0.06	199
	1800	0.78	0.06	222
	2400	0.6	0.06	266
	3000	0.5	0.06	307
	4000	0.35	0.06	288
NMRV030/063	4800	0.29	0.06	311
	300	4.7	0.22	210
	400	3.5	0.22	271
	500	2.8	0.18	257
	600	2.3	0.12	208
	750	1.9	0.12	241
	900	1.6	0.09	200
	1200	1.2	0.09	263
	1500	0.93	0.09	305
	1800	0.78	0.06	225
	2400	0.58	0.06	276
	3000	0.47	0.06	319
NMRV040/075	4000	0.35	0.06	306
	5000	0.28	0.06	360
	300	4.7	0.37	405
	400	3.5	0.37	498
	500	2.8	0.25	384
	600	2.3	0.18	362
	750	1.9	0.18	435
	900	1.6	0.18	487

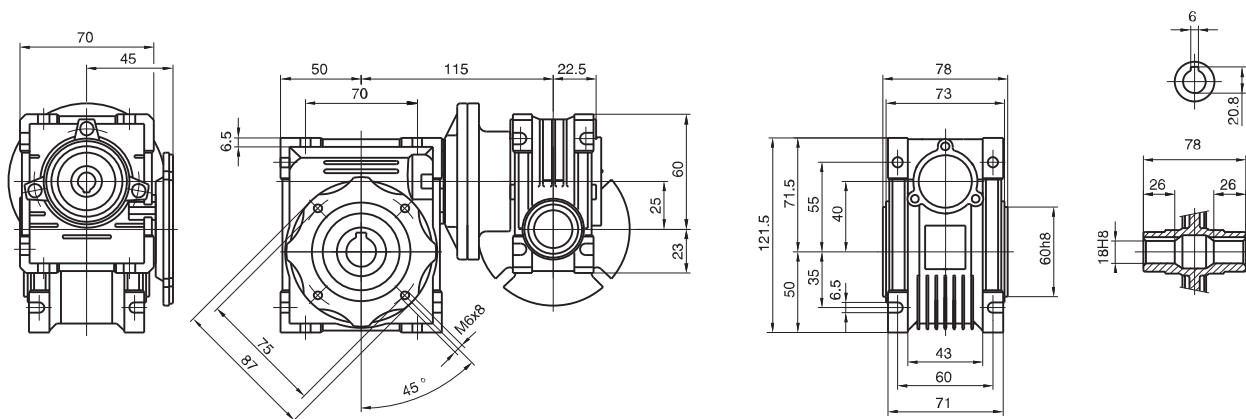
型号 Type	i	n2	P1 kW1	M2 (Nm)
NMRV040/075	1200	1.2	0.12	399
	1500	0.93	0.09	360
	1800	0.93	0.09	404
	2400	0.78	0.09	496
	3000	0.58	0.06	377
	4000	0.47	0.06	355
	5000	0.35	0.06	419
NMRV040/090	300	2.8	0.37	402
	400	4.7	0.37	523
	500	3.5	0.37	611
	600	2.8	0.37	757
	750	2.3	0.25	598
	900	1.9	0.25	667
	1200	1.6	0.18	629
	1500	1.2	0.18	735
	1800	0.93	0.12	547
	2400	0.78	0.12	695
	3000	0.58	0.09	609
	4000	0.47	0.09	548
NMRV050/110	5000	0.35	0.09	431
	300	4.7	0.92	1069
	400	3.5	0.92	1382
	400	3.5	0.55	826
	500	2.8	0.55	984
	600	2.3	0.55	1181
	750	1.9	0.55	1411
	900	1.6	0.37	1079
	1200	1.2	0.37	1396
	1500	0.93	0.25	1064
	1800	0.78	0.25	1195
	2400	0.58	0.18	1113
NMRV063/130	3000	0.47	0.12	884
	4000	0.35	0.12	784
	5000	0.28	0.12	928
	300	4.7	1.5	1789
	400	3.5	1.5	2279
	500	2.8	1.1	1991
	600	2.3	0.75	1631
	750	1.9	0.75	2005
	900	1.6	0.75	2283
	1200	1.2	0.55	2132
	1500	0.93	0.37	1674
	1800	0.78	0.37	1887
	2400	0.58	0.25	1624
	3000	0.47	0.25	1935
	4000	0.35	0.25	2046
	5000	0.28	0.25	2430

NMRV-NMRV外型尺寸 Dimensions

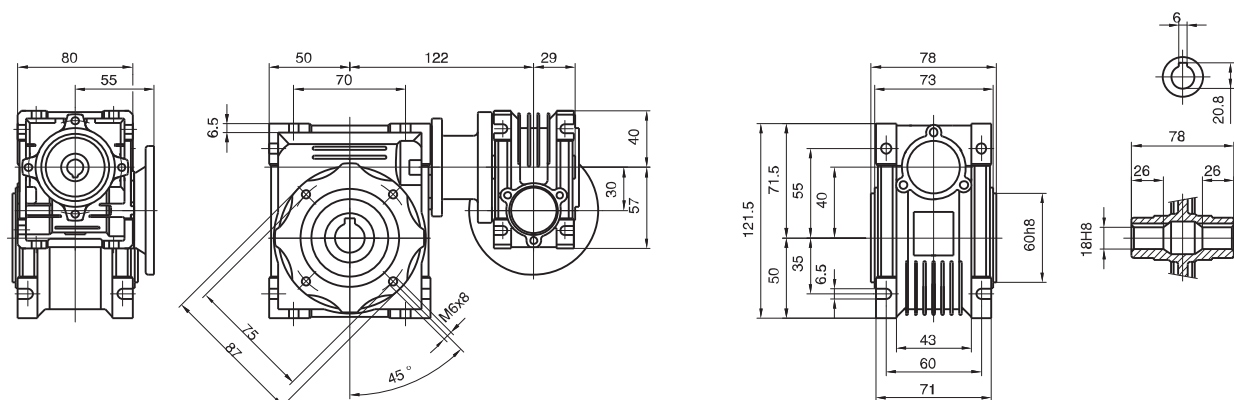
NMRV025-NMRV030



NMRV025-NMRV040

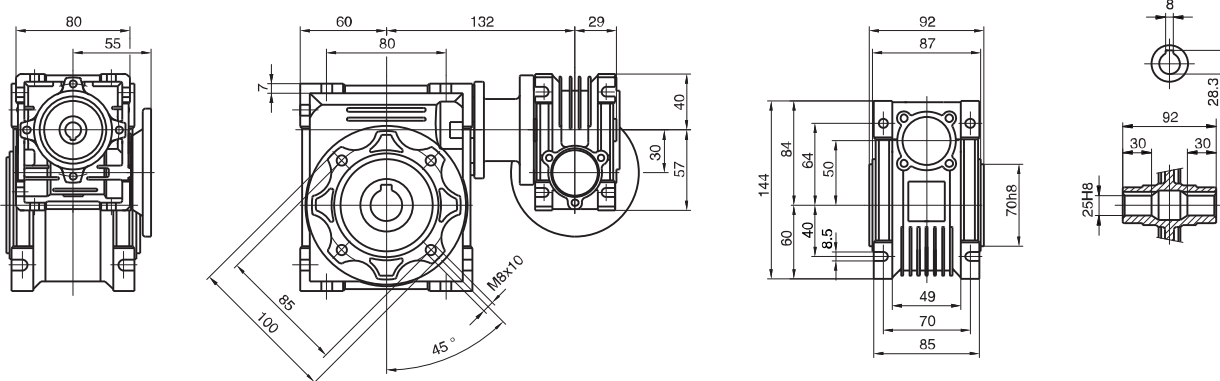


NMRV030-NMRV040

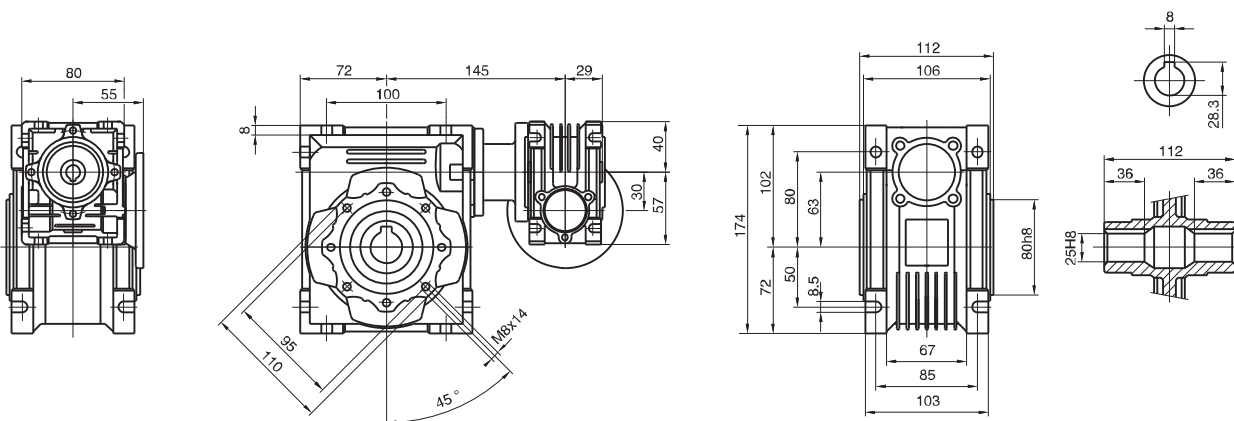


NMRV-NMRV外型尺寸 Dimensions

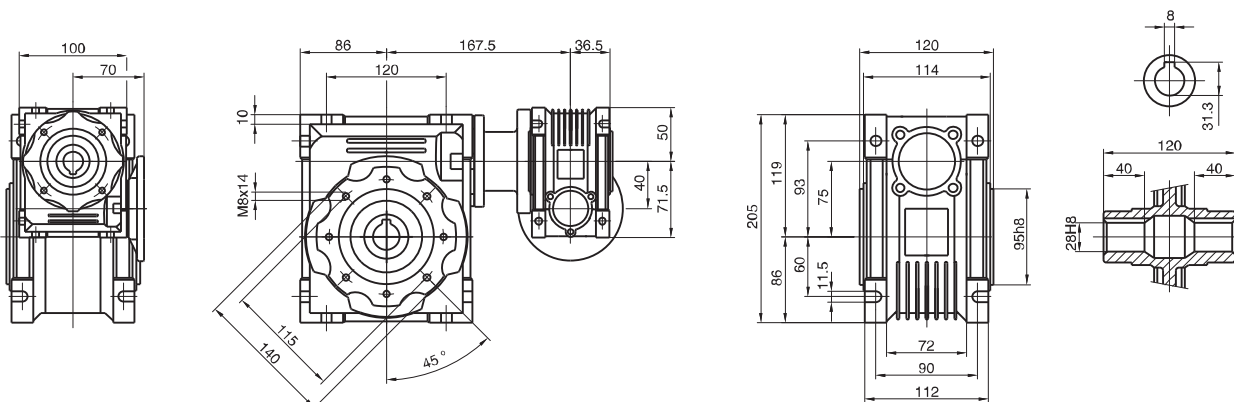
NMRV030-NMRV050



NMRV030-NMRV063

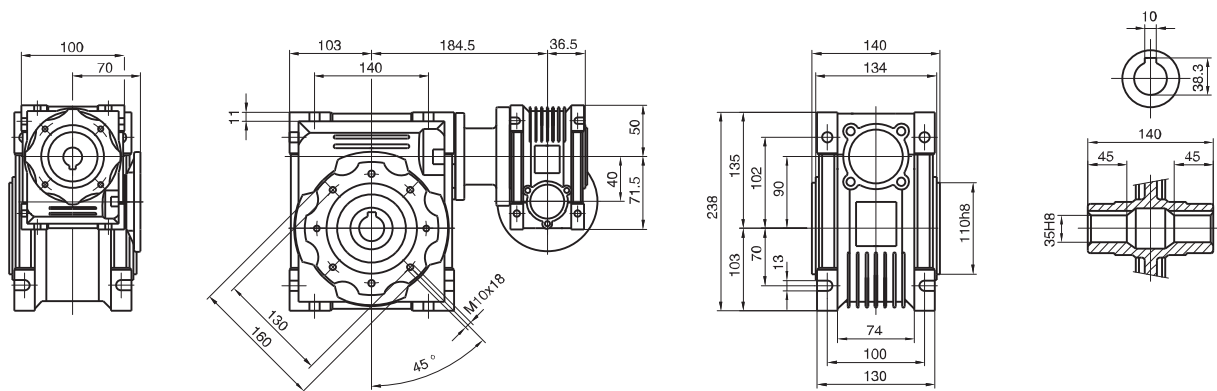


NMRV040-NMRV075

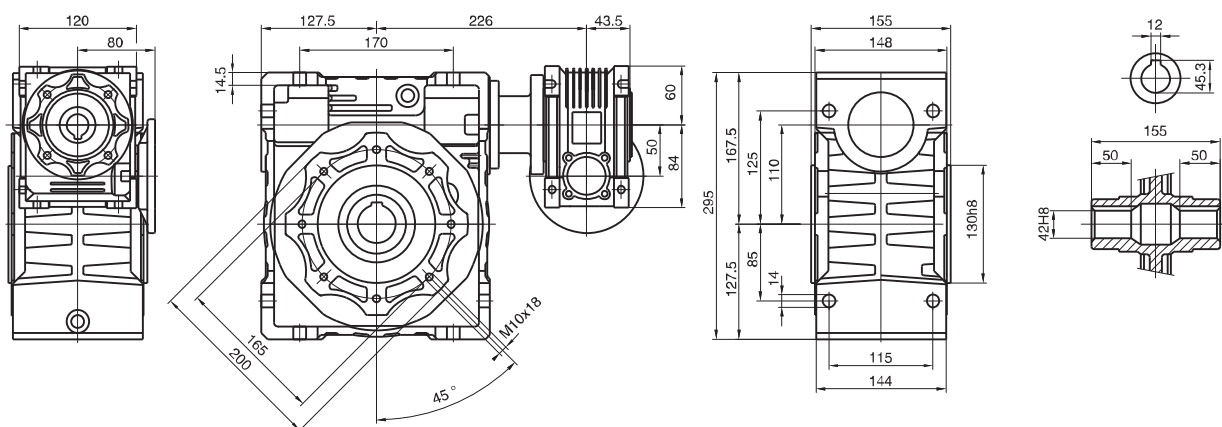


NMRV-NMRV外型尺寸 Dimensions

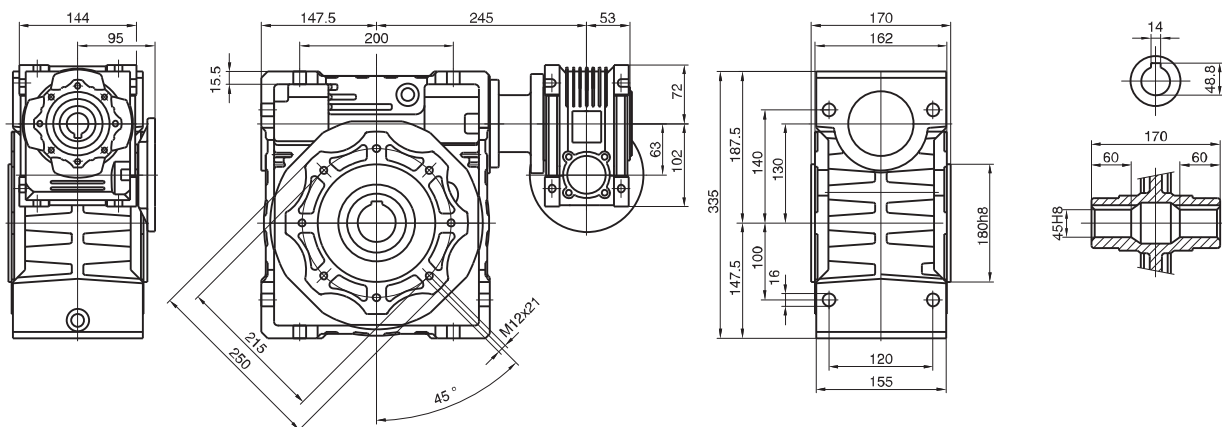
NMRV040-NMRV090



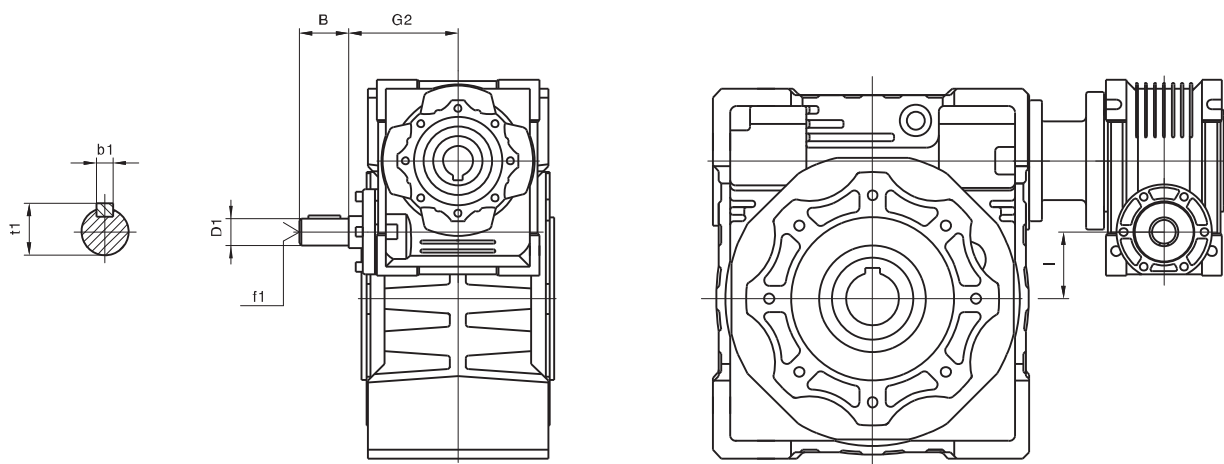
NMRV050-NMRV110



NMRV063-NMRV130



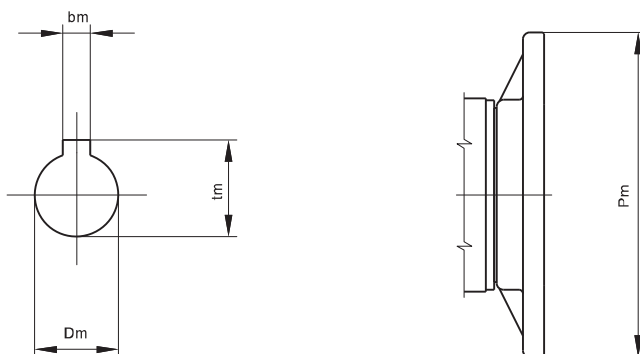
NRV-NMRV外型尺寸 Dimensions



NRV-NMRV	030-040	030-050	030-063	040-075	040-090	050-110	063-130
B	20	20	20	23	23	30	40
D1	9 j6	9 j6	9 j6	11 j6	11 j6	14 j6	19 j6
G2	51	51	51	60	60	74	90
I	10	20	33	35	50	60	67
b1	3	3	3	4	4	5	6
f1	—	—	—	—	—	M6	M6
t1	10.2	10.2	10.2	12.5	12.5	16	21.5

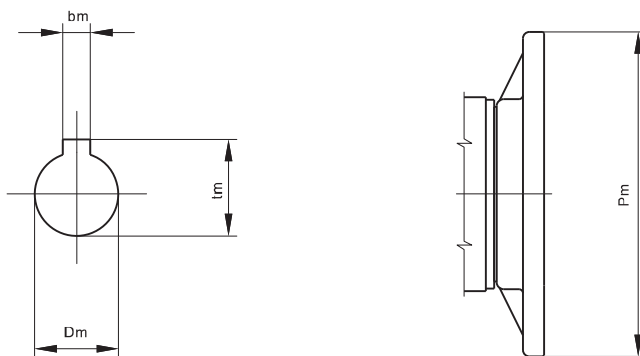


PAM B5外型尺寸 Dimensions



B5	IEC										
	056	063	071	080	090	100	112	132	160	180	200
Pm	120	140	160	200	200	250	250	300	350	350	400
Dm	9	11	14	19	24	28	28	38	42	48	55
bm	3	4	5	6	8	8	8	10	12	14	16
tm	10.4	12.8	16.3	21.8	27.3	31.3	31.3	41.3	45.3	51.8	59.3

PAM B14外型尺寸 Dimensions



B14	IEC							
	056	063	071	080	090	110	112	132
Pm	80	90	105	120	140	160	160	200
Dm	9	11	14	19	24	28	28	38
bm	3	4	5	6	8	8	8	10
tm	10.4	12.8	16.3	21.8	27.3	31.3	31.3	41.3

一般故障及排除方法 Solution and reason for the general faults of reducer

故障类型 Fault description	故障原因 Reasons	排除方法 Solutions
机温过高 Overheating	负荷超载 润滑油不够 润滑油不良 机壳散热不良 Overloading Insufficient oil Inferior oil Bad rejection of heat of the enclosure	调整负荷或选大机型 加够润滑油 加入合适的润滑油 清除机壳表面灰尘及油渍 Adjust loading or select large unit Fill in adequate oil Fill in proper oil Clean the surface of the enclosure
杂音 Noise	蜗杆、蜗轮啮合不良 蜗轮过度磨损 轴承损坏或间隙太大 润滑油不够 异物进入机内 Poor fit between gear and shaft Worm wheel over-damaged Bearing damaged or clearance too large Insufficient oil Invaded by foreign objects	修整或更换蜗杆、蜗轮 更换蜗轮 更换轴承 加够润滑油 去除异物或换油 Finish the surfaces of worm-gear Replace worm Replace bearing Fill in adequate oil Remove foreign objects and replace oil
蜗轮过度磨损 Worm wheel over-damaged	负荷超载 润滑油不够 润滑油不良 Overloading Insufficient oil Inferior oil	调整负荷或选大机型 加够润滑油 更换合适的润滑油 Adjust loading or select large unit Fill in adequate oil Replace proper oil
漏油 Oil leakage	油封损伤 密封垫损伤 油量过多 油塞松动 油镜损坏 Oil seal damaged Gasket damaged Excess oil Oil filler Loosed Oil-level plug damaged	更换油封 更换密封垫 调整油量 拧紧油塞 更换油镜 Replace oil seal Replace gasket Adjust quantity of oil Tighten oil filler Replace oil-level plug

蜗轮减速机的工作系数 Service factor

减速机的工作系数(f.s.)主要取决于减速机的运作条件,其决定因素为

1. 减速机的负荷形式: A-B-C
2. 工作时间: 小时 / 天(Δ)
3. 开机频率: 次 / 小时(*)

减速机的三种符合形式:

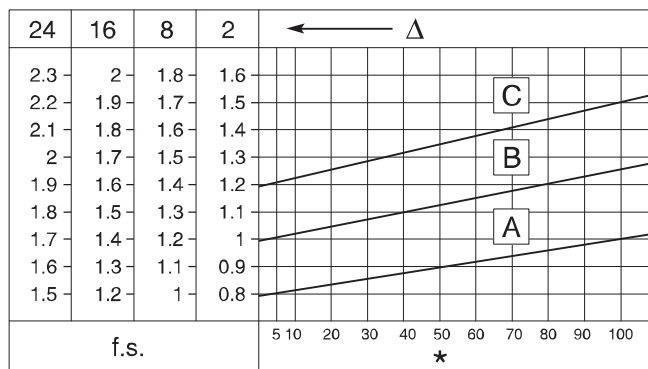
1. A: 均等负荷 $fa \leq 0.3$
2. B: 中等负荷 $fa \leq 3$
3. C: 重量负荷 $fa \leq 10$

$Fa = J_e / J_m$

$J_e(kg\cdot m^2)$: 在马达轴上发生衰降的惯性矩

$J_m(kg\cdot m^2)$: 马达惯性矩

注意: $fa > 10$ 时请与技术服务部联系



The service factor(f.s.)depends on the operating conditions the gearbox is subjected to. Following parameters need to be take to select the right service factor.

- type of load of the operating machine A- B-C
- length of daily operating time: hours/day(Δ)
- start-up frequency: starts/hour (*)

TYPE OF LOAD: A-uniform, $fa \leq 0.3$

B-moderate shocks, $fa \leq 3$

C-heavy shocks, $fa \leq 10$

$fa = J_e \cdot J_m$

-- $J_e(kg\cdot m^2)$ moment of the external inertia reduced at the drive shaft

-- $J_m(kg\cdot m^2)$ moment of inertia of motor

安装注意事项 Installation notes

--蜗杆的输入转速不大于1500r/min, 转速过高易引起蜗轮磨损及机壳温升过高, 影响减速机使用寿命。

--减速机要平稳安装, 避免震动。

--与机器装配前, 请检查减速机的输出轴的旋转方向是否正确。

--在减速机放置时间长达4-6个月情况下, 应检查密封圈是否因不浸润在润滑油中而与轴发生粘连或失去弹性, 必要时更换密封圈。

--安装空心轴时, 应采用专用力矩扳手。如果无该条件时, 用户可自行选用专用工具, 但应确保轴向不受力, 减速机可自由移动。

--减速机应避免受日光直射和雨淋。

--确保通风条件良好。

--工作环境温度低于-5° 或高与40° 时, 请咨询技术服务部。

--皮带盘, 齿轮, 联轴器, 轴等通过特殊螺纹孔装于实心轴或空心轴, 该螺纹孔可防止运作时损伤轴承和机件表面, 应对机件表面作适当润滑, 以防锈蚀和卡塞。

--橡胶件和透气孔不可上油漆。

--安装完毕后, 取出油孔上的封口栓塞, 换上透气栓塞。(透气栓应向上)

--检查油位高度。

--如果减速机不连接马达时, 请参考以下注意事项以确保正确连接: 安装于B5, B14

--检查轴与电机法兰之公差是否符合基本标准。

--清洗轴、中心孔和法兰表面的污迹及油漆。

--安装时避免减速机受力。

--检查马达键槽的位置和偏差。

--用润滑油涂抹轴的表面, 以防生锈或卡塞。

--开机时尽量应分级启动, 避免满负荷启动, 能延长减速机的使用寿命。



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