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Contact

YIDING GEAR SPEED REDUCER

蜗轮蜗杆系列工厂 / Worm Gear Reducer Series Factory

杭州一鼎传动机械有限公司
Hangzhou Yiding Transmission Machinery Co.,Ltd.
地址: 浙江省杭州市萧山区靖江街道协议村
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四大系列工厂 / Gear Reducer Series Factory

杭州一鼎华微传动设备有限公司
Hangzhou Yiding Huawei Transmission Equipment Co., Ltd.
地址: 浙江省杭州市钱塘区河庄街道建设村工业区
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精密行星系列工厂 / Precision Planetary Reducer Series Factory

杭州贝塔传动科技有限公司
Hangzhou Betar Transmission Technology Co., Ltd.
地址: 浙江省杭州市萧山区靖江街道协议村
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杭州一鼎传动机械有限公司

YNMRV / WP系列蜗轮蜗杆减速机　SWL / HK系列蜗轮丝杆升降机

GEARBOX

浙江制造
ZHEJIANG MADE

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YNMRV / WP系列蜗轮蜗杆减速机
YNMRV / WP SERIES WORM GEARBOX

SWL / HK系列蜗轮丝杆升降机
SWL / HK SERIES WORM GEAR SCREW JACK

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推 动 世 界 前 进

COMPANY PROFILE
公司简介

2010 年公司成立
The company was established in 2010

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35000 平方米占地面积
35,000 square meters of floor space

产品远销 **40** 多个国家
Products are sold in more than 40 countries

杭州一鼎传动机械有限公司致力于数字化赋能的工业减速机领域。以杭州为基地，公司现拥有两大现代化数字智能工厂，年产减速机达百万台。产品广泛用于新能源，机器人，自动化，仓储，物流，医疗，化工等多领域。公司主要生产WP系列蜗轮蜗杆减速机，YNMRV精密蜗轮蜗杆减速机，四大系列齿轮减速电机YR系列、YF系列、YS系列、YK系列 ，高精密行星减速机，以及为客户提供定制化解决方案。推动大数据分析与科学生产规划，确保产品性能和生产效率。我们的研发实力和创新能力获得了众多国内外认证与专利的认定。

一鼎传动不断追求技术创新与精益求精，致力于为合作伙伴提供更为创新和精密的动力输送解决方案。我们一直奔着“中国制造”走向“中国智造”的愿景迈进，立志成为减速机行业的领跑者，携手全球客户共创美好未来。

Hangzhou Yiding Transmission Machinery Co., Ltd. is dedicated to the digitally empowered industrial gearbox field. Based in Hangzhou, the Company has two modern digital intelligent plants with an annual output of millions of gearboxes. The products are widely used in new energy, robots, automation, warehousing, logistics, medical treatment, chemical and other fields. The Company mainly produces WP series worm gearboxes, YNMRV precision worm gearboxes, and four series of gearbox motors(YR series, YF series, YS series, YK series), and high-precision planetary gearboxes, and provides customized solutions for customers. The Company promotes big data analysis and scientific production planning to ensure product performance and efficiency. Our R&D strength and innovation capacity have been recognized by domestic and foreign certifications and patents.

In constant pursuit of technical innovation and excellence, the Company is committed to providing more innovative and precision solutions for power transmission for our partners. We are moving toward our vision of developing from “Made in China” to “Intelligent Manufacturing in China”, striving to become the leader of the gearbox industry and create a better future with global customers.

CORPORATE HISTORY
发展历程

2010 年

一鼎——WP系列蜗轮蜗杆减速机，研发投产

In 2010,Yiding-WP series worm gear speed reducer, R&D and production

2013 年

一鼎——YNMRV系列蜗轮蜗杆减速机，研发投产

In 2013,Yiding-YNMRV series worm gear speed reducer，R&D and production

2018 年

一鼎华微——R/F/K/S系列齿轮减速电机，研发投产

In 2018,Yiding Huawei--R/F/K/S series gear motor, R&D and production

2019 年

一鼎贝塔——精密行星齿轮箱，研发投产

In 2019,Yiding Betar - Precision planetary gearbox, R&D and production

QUALITY ASSURANCE
品质保证

我们秉承持续创新、追求卓越的精神，坚持以科技引领企业发展，全员永葆创精雕细琢的激情与活力，注重团队的学习提升，努力创造卓越绩效，不断促进企业的跨越式发展。

我们弘扬和谐共进、致力共赢的精神，重视以安全和谐为根本，注重内部沟通协作与外部的广泛合作，实现企业发展的成果共享，共同创造企业可持续的发展环境。

国家高新技术企业
National high-tech enterprise

杭州市高新技术企业
Hangzhou high-tech enterprise

杭州市企业高新技术研究开发中心
Hangzhou Enterprise High-tech Research and Development Center

浙江制造认证企业
Made in zhejiang certified enterprise

ISO14001环境管理体系认证
ISO14001 environmental management system certification

ISO19001质量管理体系认证
ISO19001 quality management system certification

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YD FORCE Concept
一鼎核心价值观

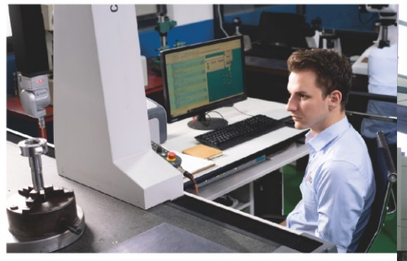
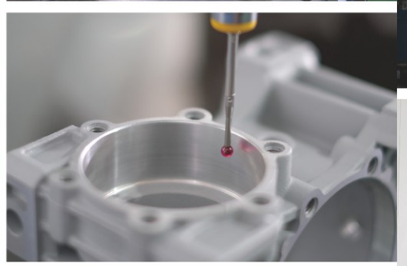
改变 · 创新 · 责任 · 共赢
Change, Innovation, Responsibility, Win-win.

YD FORCE Mission
一鼎使命

让中国制造成为中国智造
From “made in china” to “created in china”

YD FORCE Vision
一鼎愿景

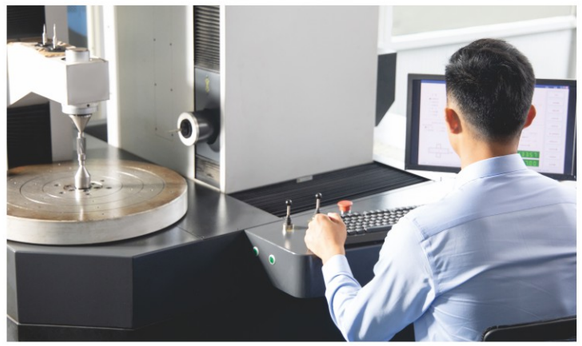
成为中国机械行业领跑者
To be the leader of machinery industry in China









PRODUCTION & TESTING EQUIPMENT

生产及检测设备

我们拥有行业领先的自动化制造设备，为零部件精度的不断提升给予持续的支持。

We has advanced automatic producing equipments which gives the continuous support to improving the precision of spare parts.

我们拥有先进而完善的检验设备，为零件及整机作精密的检测。

We have advanced and perfect inspecting equipment to inspect the spare parts and whole machine precisely.

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YNMRV系列蜗轮蜗杆减速机


YNMRV


YNMRV..方法兰


YNMRV..VS


YNRV


YNRV..VS

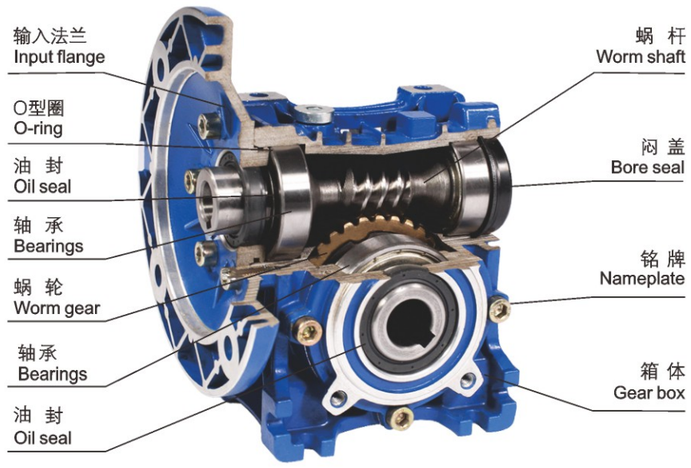

YNMRV..AS


YNMRV+YNMRV


YNMRV..TA


PC+YNMRV

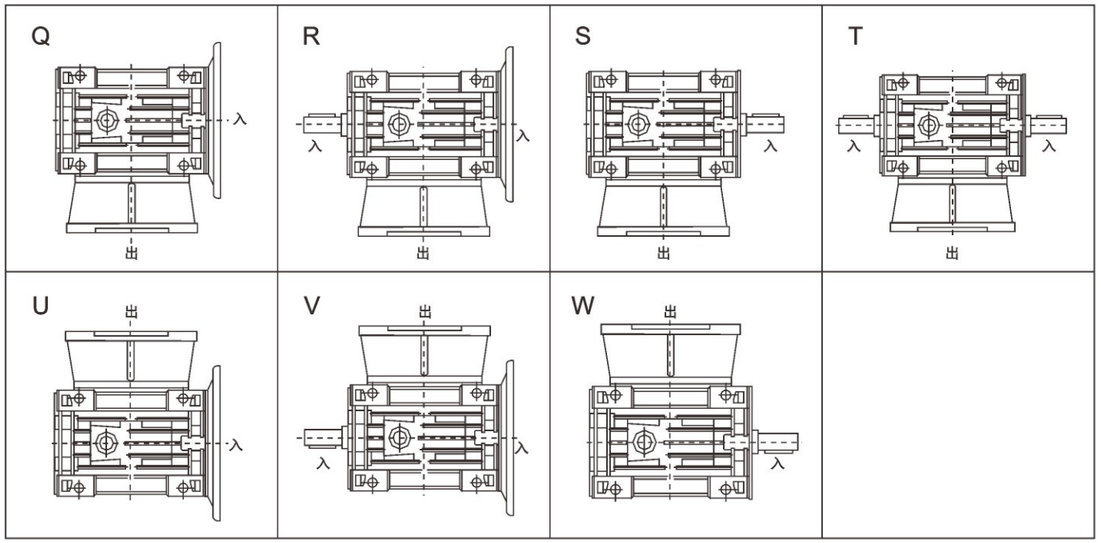
产品结构图 Products Structure View



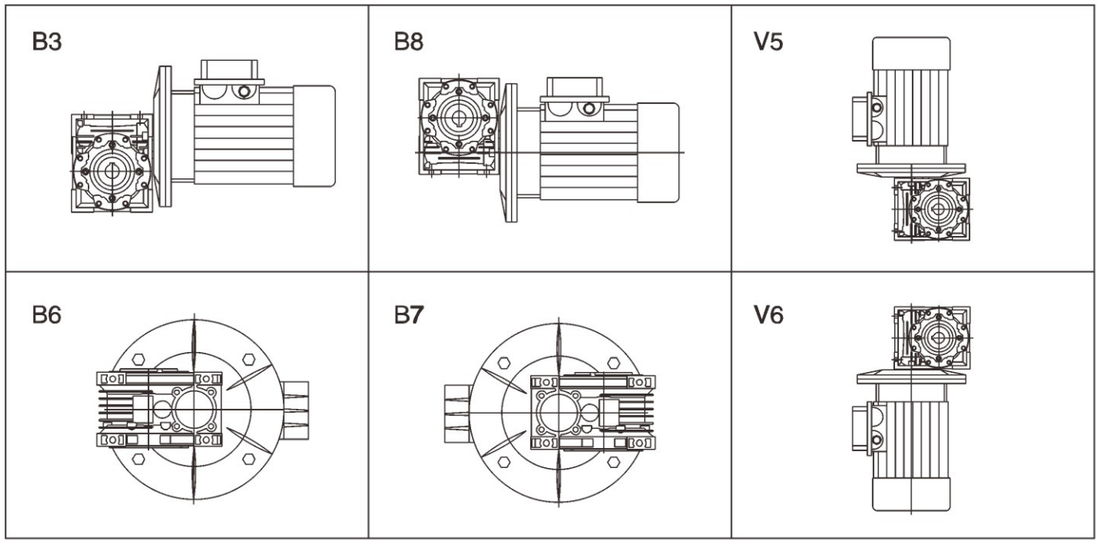
型号说明 Model notes

YNMRV-063-30-VS-F1 (FA)-AS-80B5-0.55kW-B3			
YNMRV	蜗轮减速机 Worm gearbox		
YNRV	蜗轮减速机(配接输入轴) Worm gearbox（Mounting input shaft)		
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	F1 (FA)	输出法兰位置及型号 Output flange
AS	单向输出轴 Single output shaft	AB	双向输出轴 Double output shaft
PAM	电机联接 Fitted for motor coupling	80B5	电机机座号和安装结构形式 Motor mounting facility
0.55kW	电机功率 Electric motor power	B3	安装方位 Mounting position

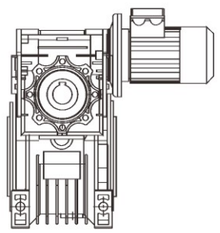
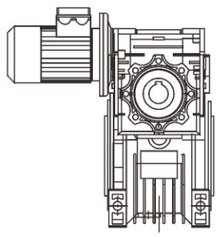
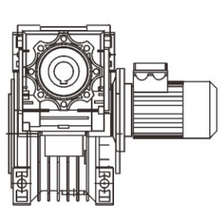
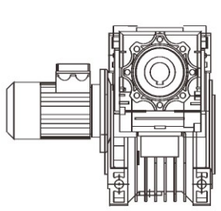
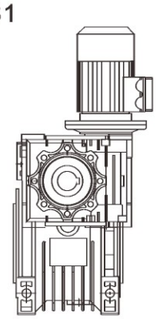
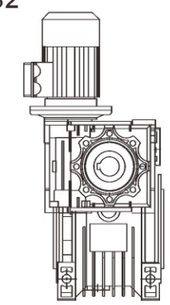
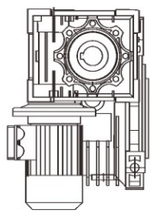
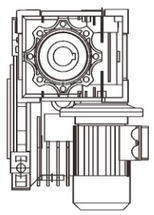
入力轴和输出法兰指向图 Directions of input shaft & output flange



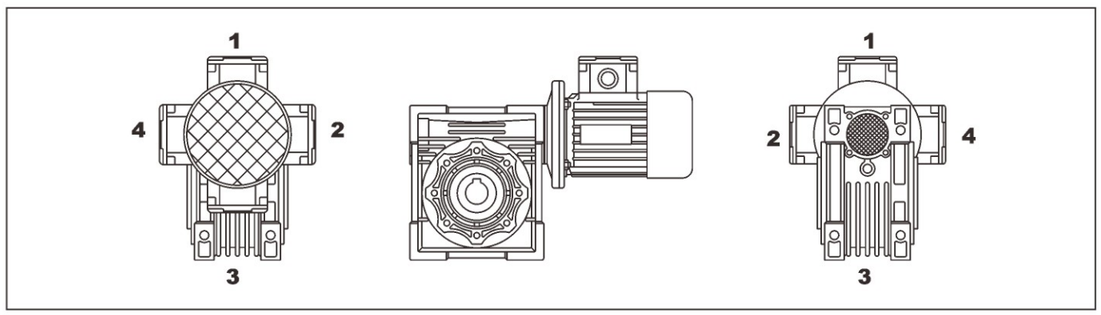
单级安装型式 Single Step Mounting Positions



双级安装型式 Double step mounting positions

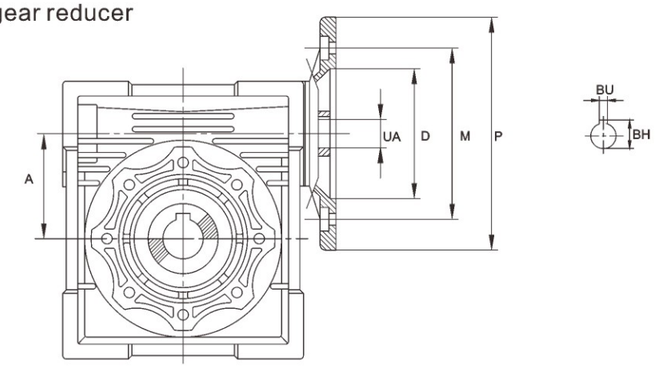
AS1 	AS2 	BS1 	BS2 
VS1 	VS2 	PS1 	PS2 

接线盒安装方式 Position of terminal box



安装尺寸 Mounting dimensions

单级蜗杆减速机
Single step worm gear reducer

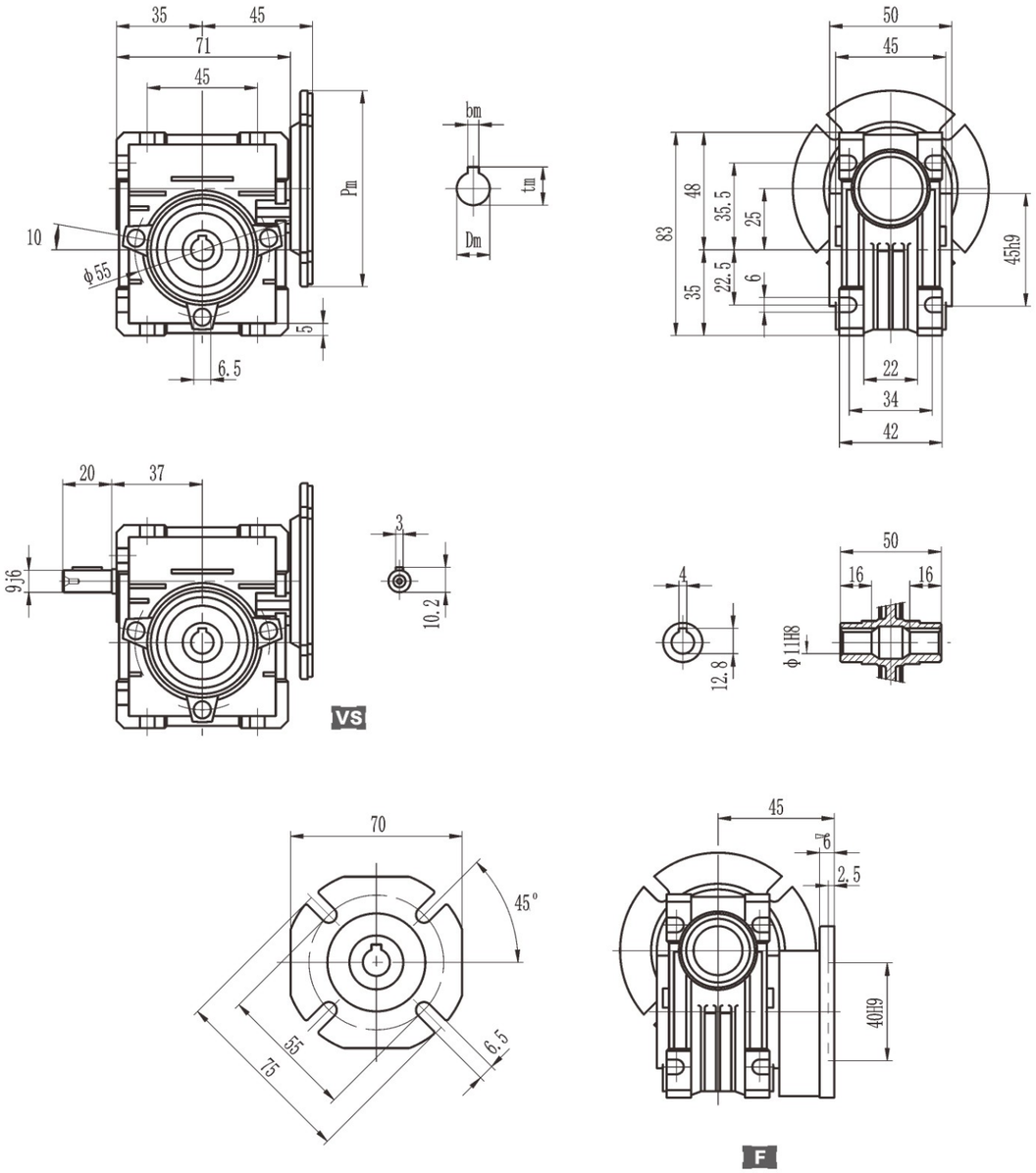


电机输入法兰 Motor input flange

中心距 Center Distance A	电机法兰 Motor Flange 法兰规格	D	M	P	BU	BH	输入轴孔直径UA The Hole Diameter of Shaft 传动比 i Transmission Ratio 7.5	10	15	20	25	30	40	50	60	80	100
25	56B14	50	65	80	3	10.4	9	9	9	9	9	9	9	9	9	9	-
30	63B5	95	115	140	4	12.8	11	11	11	11	11	11	11	11	11	11	-
	63B14	60	75	90													
	56B5	80	100	120	3	10.4	9	9	9	9	9	9	9	9	9	9	-
	56B14	50	65	80													
40	71B5	110	130	160	5	16.3	14	14	14	14	14	14	14	14	14	14	14
	71B14	70	85	105													
	63B5	95	115	140	4	12.8	11	11	11	11	11	11	11	11	11	11	-
	63B14	60	75	90													
	56B5	80	100	120	3	10.4	9	9	9	9	9	9	9	9	9	9	9
50	80B5	130	165	200	6	21.8	19	19	19	19	19	19	19	19	19	19	19
	80B14	80	100	120													
	71B5	110	130	160	5	16.3	14	14	14	14	14	14	14	14	14	14	-
	71B14	70	85	105													
	63B5	95	115	140	4	12.8	11	11	11	11	11	11	11	11	11	11	11
63	90B5	130	165	200	8	27.3	24	24	24	24	24	24	24	24	24	24	24
	90B14	95	115	140													
	80B5	130	165	200	6	21.8	19	19	19	19	19	19	19	19	19	19	19
	80B14	80	100	120													
	71B5	110	130	160	5	16.3	14	14	14	14	14	14	14	14	14	14	14
	71B14	70	85	105													
75	100/112B5	180	215	250	8	31.3	28	28	28	28	28	28	28	28	28	28	28
	100/112B14	110	130	160													
	90B5	130	165	200	8	27.3	24	24	24	24	24	24	24	24	24	24	24
	90B14	95	115	140													
	80B5	130	165	200	6	21.8	19	19	19	19	19	19	19	19	19	19	19
	80B14	80	100	120													
90	100/112B5	180	215	250	8	31.3	28	28	28	28	28	28	28	28	28	28	28
	100/112B14	110	130	160													
	90B5	130	165	200	8	27.3	24	24	24	24	24	24	24	24	24	24	24
	90B14	95	115	140													
	80B5	130	165	200	6	21.8	19	19	19	19	19	19	19	19	19	19	19
	80B14	80	100	120													
110	132B5	230	265	300	10	41.1	38	38	38	38	38	38	38	38	38	38	38
	100/112B5	180	215	250	8	31.3	28	28	28	28	28	28	28	28	28	28	28
	90B5	130	165	200	8	27.3	24	24	24	24	24	24	24	24	24	24	24
130	132B5	230	265	300	10	41.1	38	38	38	38	38	38	38	38	38	38	38
	100/112B5	180	215	250	8	31.3	28	28	28	28	28	28	28	28	28	28	28
150	160B5	250	300	350	12	45.3	42	42	42	42	42	42	42	42	42	42	42
	132B5	230	265	300	10	41.3	38	38	38	38	38	38	38	38	38	38	38
	100/112B5	180	215	250	8	31.3	28	28	28	28	28	28	28	28	28	28	28

减速机外型尺寸 Dimensions

YNMRV 025 »



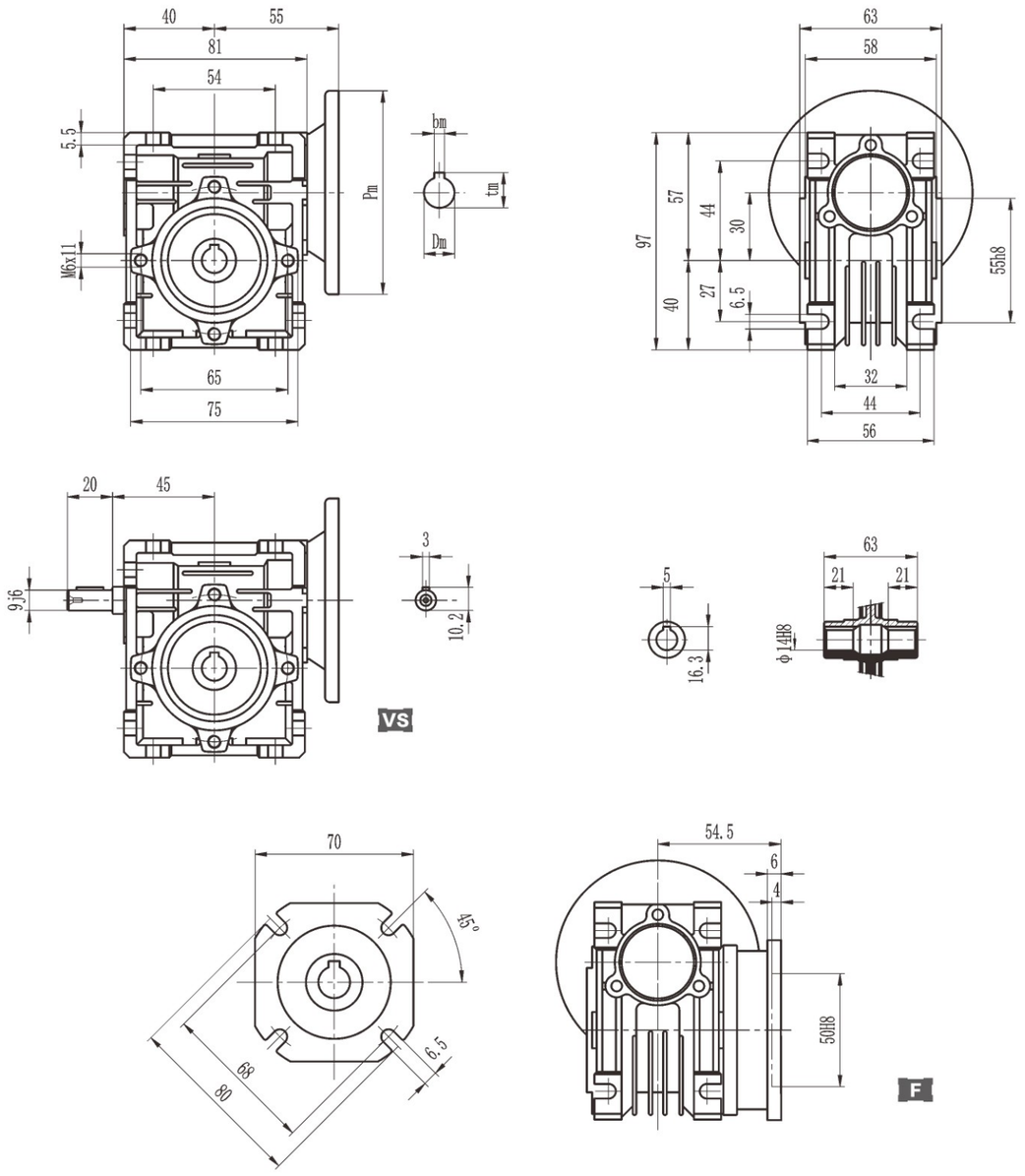
*不带电机重量 Weight without motor：0.7kg

*输入尺寸 input size (Pm,Dm,bm,tm)

YDFORCE MOVING THE WORLD FORWARD
YNMRV SERIES WORM GEARBOX
YNMRV系列蜗轮蜗杆减速机

减速机外型尺寸 Dimensions

YNMRV 030 »

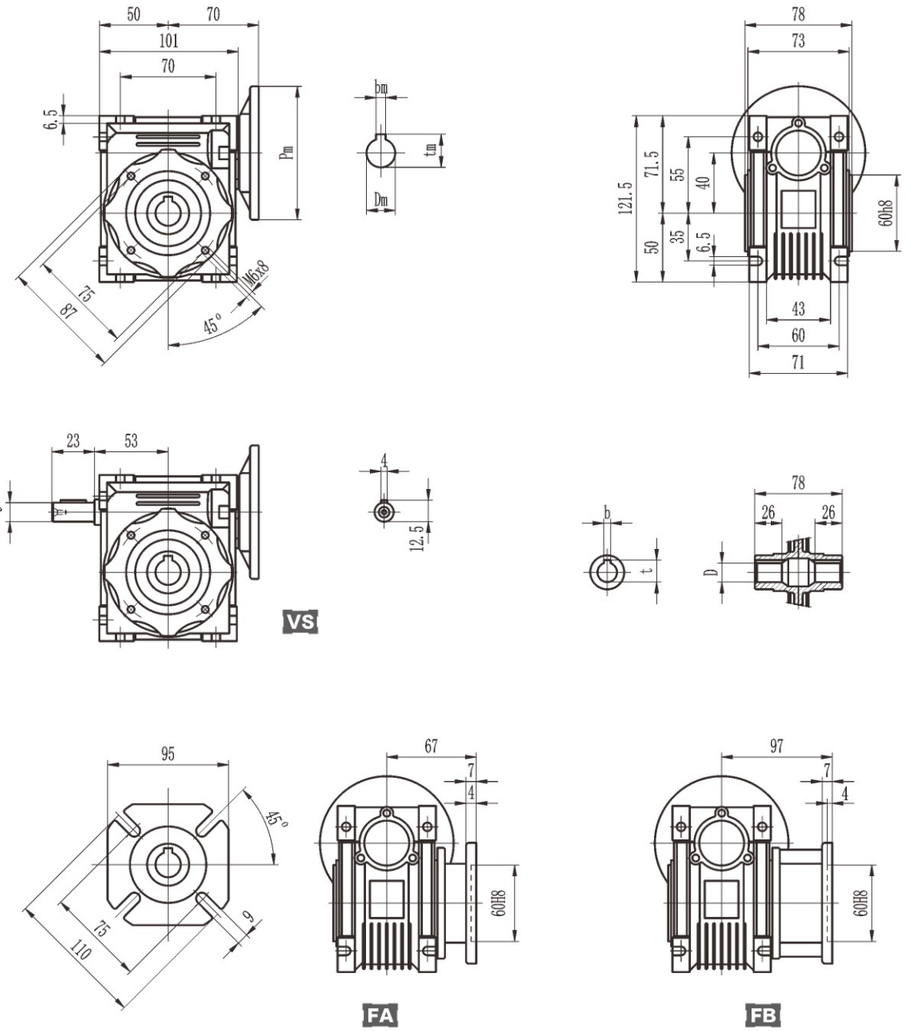


*不带电机重量 Weight without motor：1.2kg

*输入尺寸 input size (Pm,Dm,bm,tm)

减速机外型尺寸 Dimensions

YNMRV 040 »



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

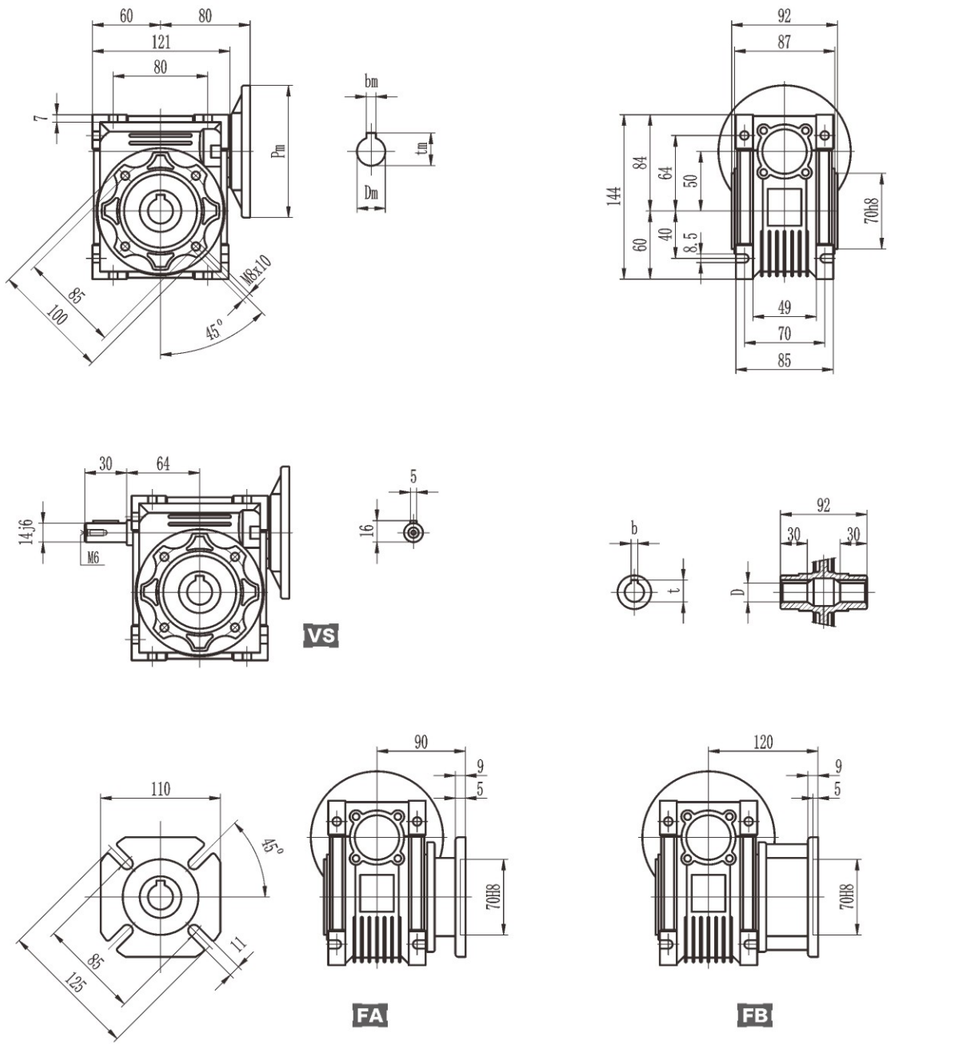
(..)根据用户要求定制 Only on request

*不带电机重量 Weight without motor：2.3kg

*输入尺寸 input size (Pm,Dm,bm,tm)

减速机外型尺寸 Dimensions

YNMRV 050»



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

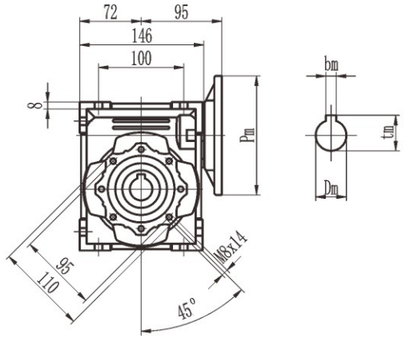
(..)根据用户要求定制 Only on request

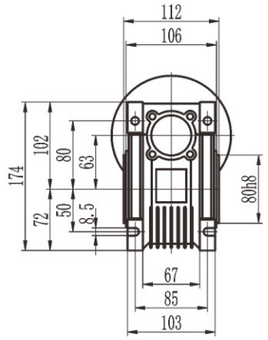
*不带电机重量 Weight without motor：3.5kg

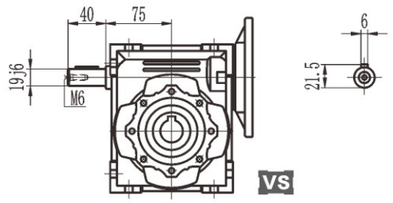
*输入尺寸 input size (Pm,Dm,bm,tm)

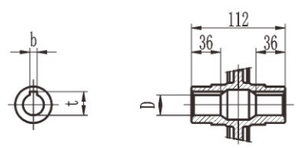
减速机外型尺寸 Dimensions

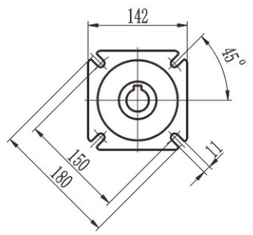
YNMRV 063 »

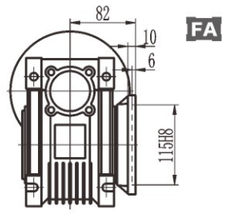


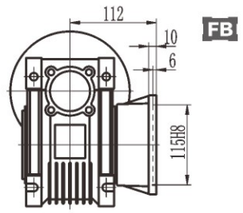










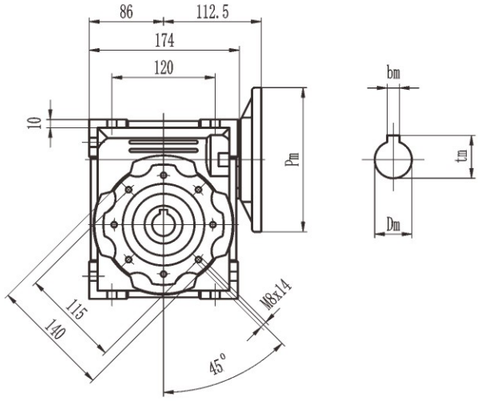


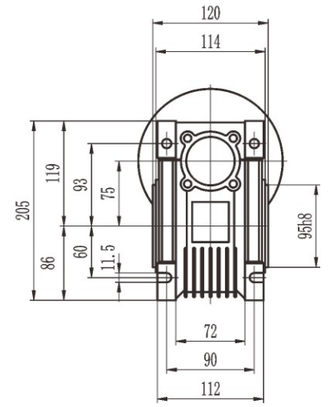
(..)根据用户要求定制 Only on request
*不带电机重量 Weight without motor：6.2kg
*输入尺寸 input size (Pm,Dm,bm,tm)

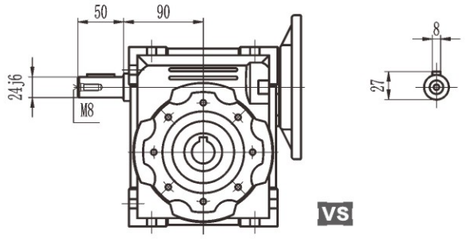
输出/Output		
D H8	b	t
25 (28)	8 (8)	28.3 (31.3)

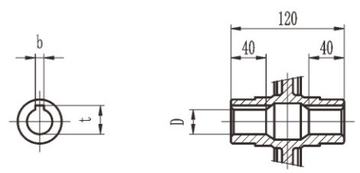
减速机外型尺寸 Dimensions

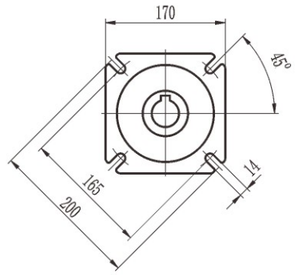
YNMRV 075»

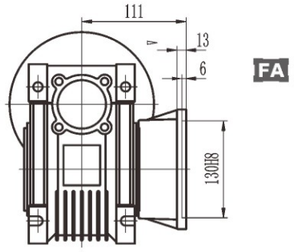










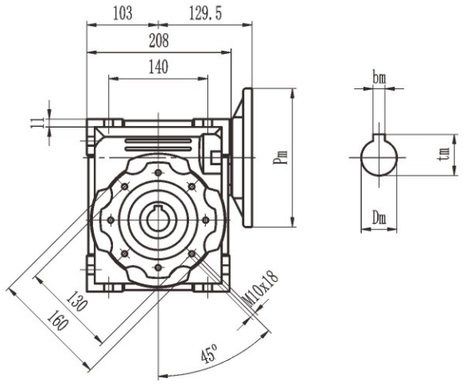


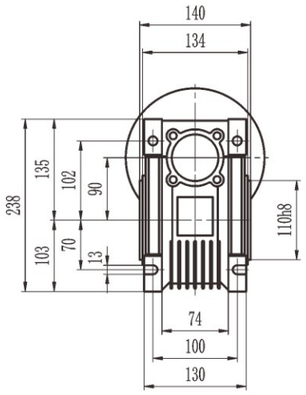
(..)根据用户要求定制 Only on request
*不带电机重量 Weight without motor：9kg
*输入尺寸 input size (Pm,Dm,bm,tm)

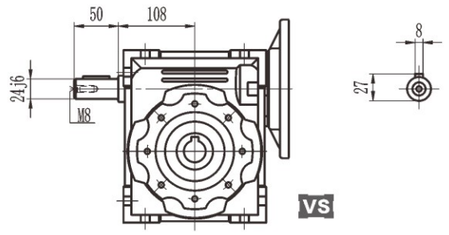
输出/Output		
D H8	b	t
28 (35)	8 (10)	31.3 (38.3)

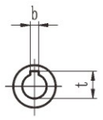
减速机外型尺寸 Dimensions

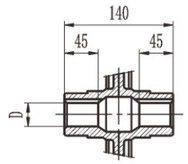
YNMRV 090 »

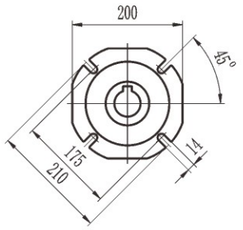


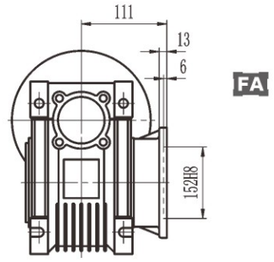












输出/Output		
D H8	b	t
35 (38)	10 (10)	38.3 (41.3)

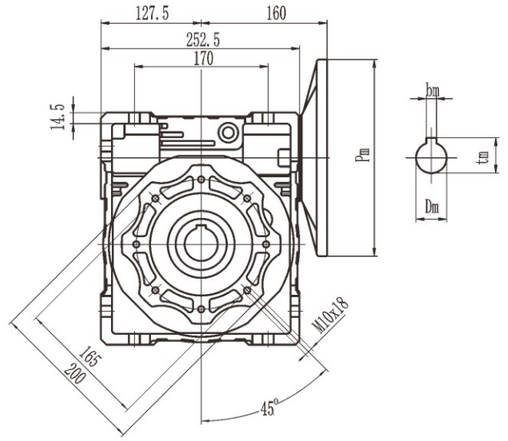
(..)根据用户要求定制 Only on request

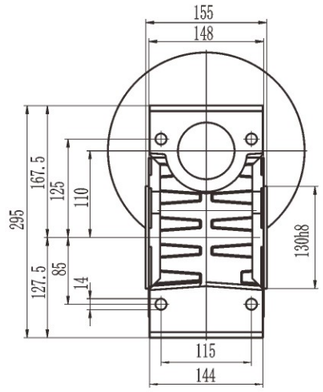
*不带电机重量 Weight without motor：13kg

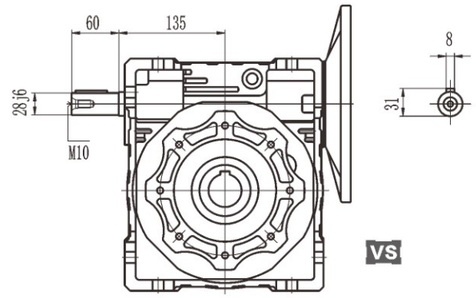
*输入尺寸 input size (Pm,Dm,bm,tm)

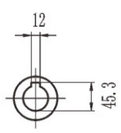
减速机外型尺寸 Dimensions

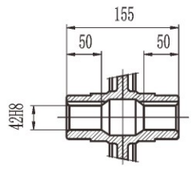
YNMRV 110»

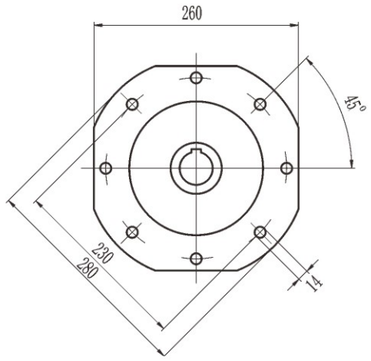


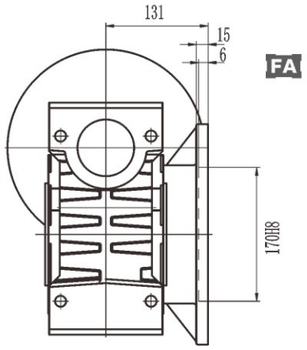










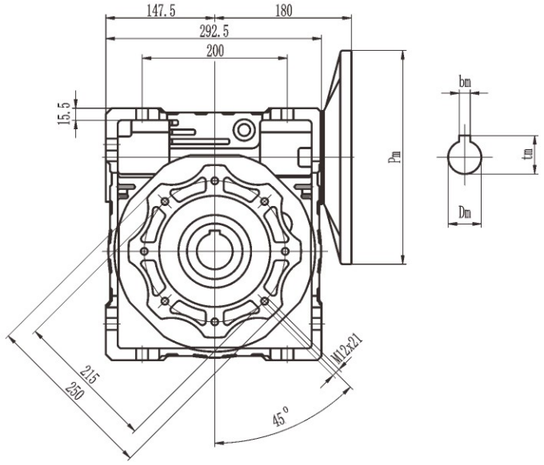


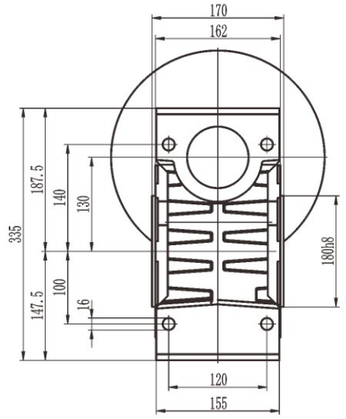
*不带电机重量 Weight without motor：35kg

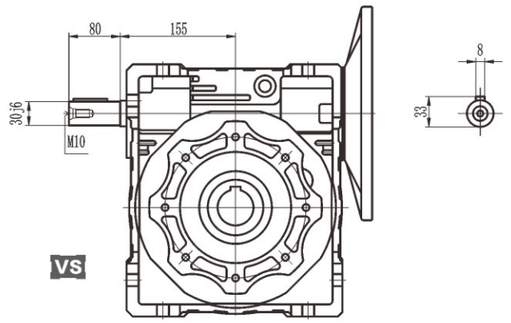
*输入尺寸 input size (Pm,Dm,bm,tm)

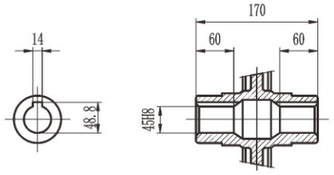
减速机外型尺寸 Dimensions

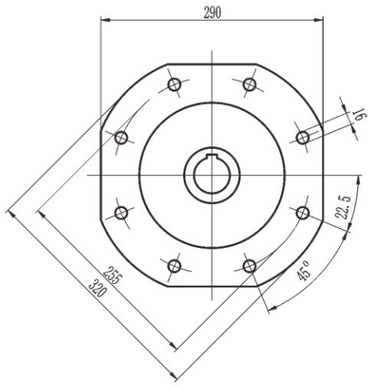
YNMRV 130 »

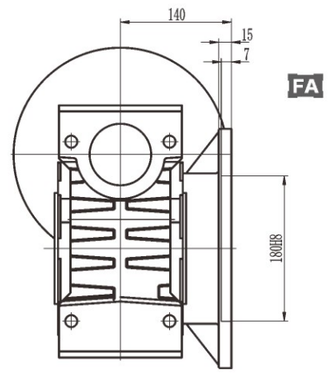












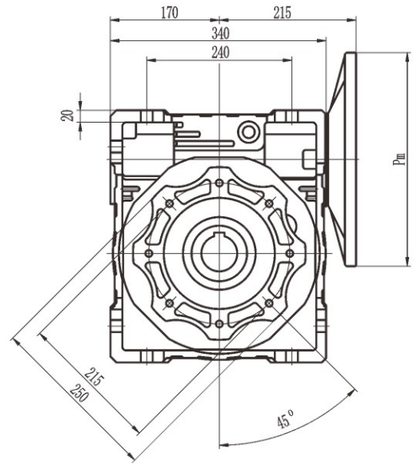
*不带电机重量 Weight without motor：48kg

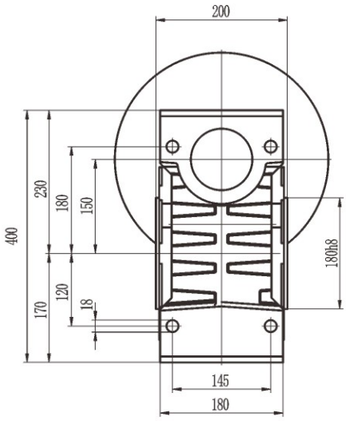
*输入尺寸 input size (Pm,Dm,bm,tm)

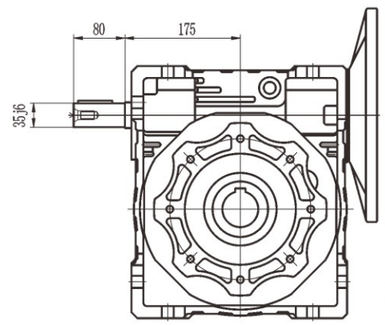
YDFORCE MOVING THE WORLD FORWARD
YNMRV SERIES WORM GEARBOX
YNMRV系列蜗轮蜗杆减速机

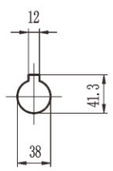
减速机外型尺寸 Dimensions

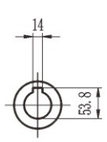
YNMRV 150»

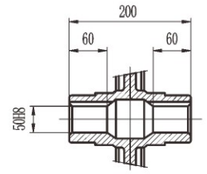








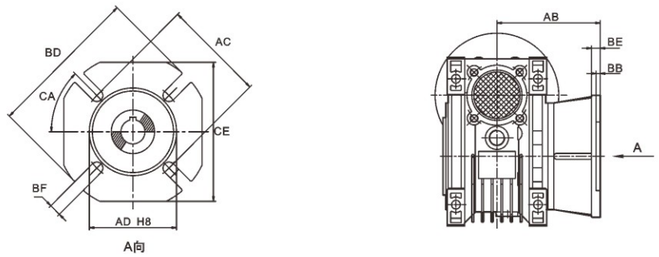




*不带电机重量 Weight without motor：87.8kg

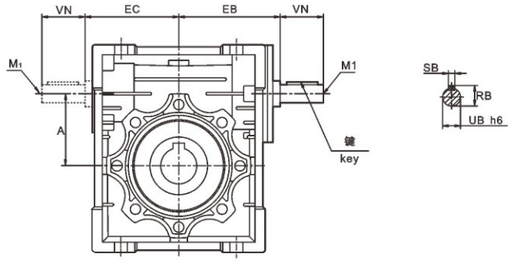
*输入尺寸 input size (Pm,Dm,bm,tm)

输出法兰安装尺寸 Output flange mounting dimensions



	25	30	40	50	63	75	90	110	130	150
AB	45	54.5	67	90	82	102	111	131	140	155
AC	55	68	80	85	150	165	175	230	255	255
AD	40	50	60	70	115	130	152	170	180	180
BB	3	4	4	5	6	6	6	6	6	7
BD	75	80	110	125	180	200	210	280	320	320
BE	6	6	7	9	10	13	13	15	15	15
BF	6.5(n.4)	6.5(n.4)	9(n.4)	11(n.4)	11(n.4)	14(n.4)	14(n.4)	ϕ14(n.8)	ϕ16(n.8)	ϕ16(n.8)
CA	45°	45°	45°	45°	45°	45°	45°	45°	22.5°	22.5°
CE	70	70	95	110	142	170	200	260	290	290

YNMRV(VS)安装尺寸 YNMRV(VS) Mounting Dimensions



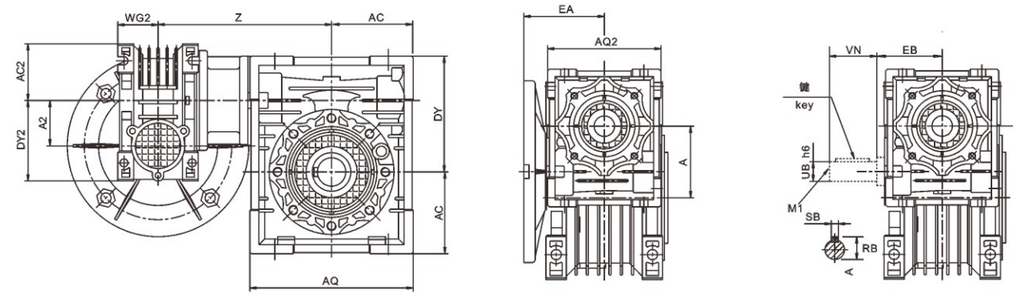
	30	40	50	63	75	90	110	130	150
A	30	40	50	63	75	90	110	130	150
EB	50	61	74	90	105	125	142	162	195
EC	45	53	64	75	90	108	135	155	175
M1	-	-	M6	M6	M8	M8	M10	M10	M12
RB	10.2	12.5	16	21.5	27	27	31	33	38
SB	3	4	5	6	8	8	8	8	10
UB	9	11	14	19	24	24	28	30	35
VN	20	23	30	40	50	50	60	80	80
输入轴平键									
规格	3×3	4×4	5×5	6×6	8×7	8×7	8×7	8×7	10×8
长度	15	20	25	35	45	45	55	70	70

YNMRV(D)安装尺寸

YNMRV(D) Mounting dimensions

双级蜗杆减速机

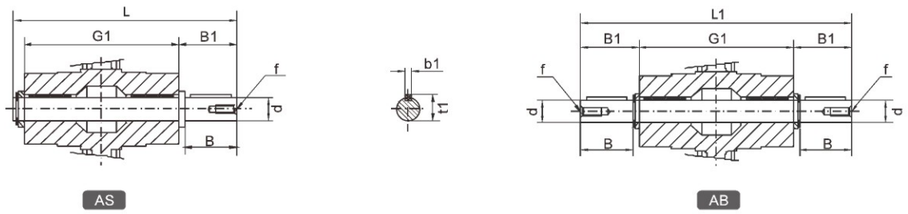
Double step worm gear reducer



	25/30	25/40	30/40	30/50	30/63	40/75	40/90	50/110	63/130	63/150
A	30	40	40	50	63	75	90	110	130	150
A2	25	25	30	30	30	40	40	50	63	63
AC	40	50	50	60	72	86	103	127.5	147.5	170
AC2	35	35	40	40	40	50	50	60	72	72
AQ	80	100	100	120	144	172	206	252.5	292.5	340
AQ2	70	70	80	80	80	100	100	120	144	144
DY	57	71	71	84	102	119	135	167.5	187.5	230
DY2	48	48	57	57	57	71	71	84	102	102
EA	45	63	63	63	63	71	71	80	95	95
EB	-	-	50	50	50	61	61	74	90	90
M1	-	-	-	-	-	-	-	M6	M6	M6
RB	-	-	10.2	10.2	10.2	12.5	12.5	16	21.5	21.5
SB	-	-	3	3	3	4	4	5	6	6
UB	-	-	9	9	9	11	11	14	19	19
VN	-	-	20	20	20	23	23	30	40	40
WG2	22.5	22.5	29	29	29	36.5	36.5	43.5	53	53
Z	100	115	122	132	145	167.5	184.5	226	245	275
输入轴平键										
规格	-	-	3×3	3×3	3×3	4×4	4×4	5×5	6×6	6×6
长度	-	-	15	15	15	20	20	25	35	35

附件 Accessories

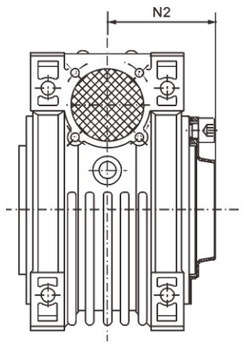
单向/双向输出轴尺寸 Size of double extension worm shaft



	d	B	B1	G1	L	L1	f	b1	t1
025	11 g6 (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
150	50 h6	82	87	200	297	374	M16	14	53.5

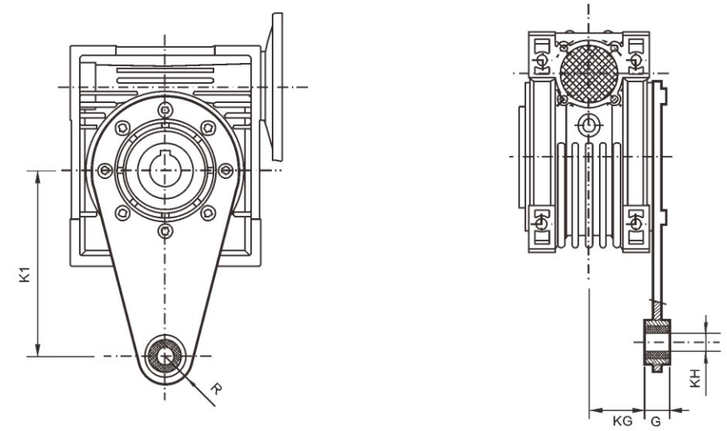
◎非标产品，下单时须注明要求 Only on reques.t

防护罩 Protective cover



	N2
030	42
040	50
050	58
063	69
075	74
090	86
110	94
130	102
150	117

扭力臂尺寸 Size of torque arm



	K1	R	KG	G	KH
025	70	15	17.5	14	8
030	85	15	24	14	8
040	100	18	31.5	14	10
050	100	18	38.5	14	10
063	150	18	49	14	10
075	200	30	47.5	25	20
090	200	30	57.5	25	20
110	250	35	62	30	25
130	250	35	69	30	25
150	250	35	84	30	25

选型方法
Method for model chose

为正确选择YNMRV蜗杆减速机，敬请用户首先了解以下几点：

- 负荷条件
- 使用转速范围或速比（与双级组合可获得超低输出转速）
- 工作运转情况及环境（温度、湿度、腐蚀等）
- 安装空间

Please understand the following at first in order to select the model of YNMRV Worm gear speed reducer properly:

- Load condition.
- Speed scope or ratio in application.
- Working condition and environment.
- Installation space.

确定工作情况系数K1及工作情况修正系数K2

- 根据表1，决定机械负荷种类A、B、C。
- 根据运转时间（小时/天）和启动频率（次数/小时）从图1中求得工作情况系数K1。
- 根据表2，查取工作情况修正系数K2。

Define working condition Coefficient K1 and revise coefficient K2.

- Ensure machinery load types A, B, C according to table 1
- Get the working condition coefficient K1 from diagram 1 according to turning time (hour/day) and start frequency (times/hour)
- Inspect working condition and select coefficient K2 from table 2.

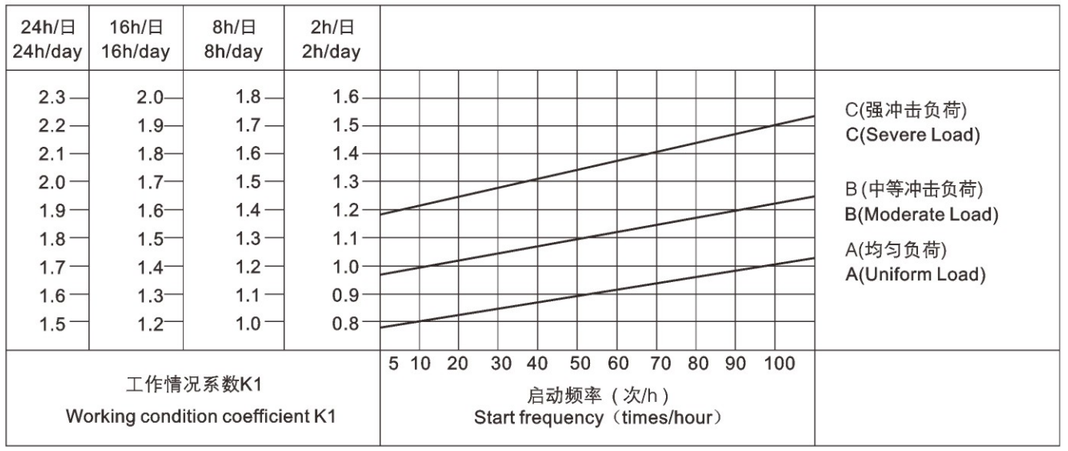
机械负荷种类选定（ 表1 ）
Table 1 Machinery Load classification selection

使用情况 Using situation	示例 Example	负荷种类 Load type
无冲击均匀负荷 Uniform load	传送带（均速输送） Convey band(uniform conveying)	A（均匀负荷） A(Uniform load)
中等冲击负荷 Moderate Load	传送带（变速输送） Speed changed conveying	B（中等冲击负荷） B(Moderate load)
强烈冲击负荷 Severe Load	压缩机、粉碎机等 Compressor、pulverizer, etc.	C（强冲击负荷） C(Severe load)

工作情况修正系数K2选定（表2）
Table 2 Working condition coefficient K2

环境温度 Ambient temperature	工作情况修正系数K2 Working condition coefficient K2
-10℃~ 30℃	1
30℃~ 40℃	1.1 ~ 1.2

工作情况系数K1选定（图1）
Diagram 1 working Condition coefficient K1



选定减速机

- 用户须先确定工作机输入机械负荷T(转矩)，以T乘以工作情况系数K1，再乘以工作情况修正系数K2，即获得减速机应有的输出转矩值，以此为据，并结合速比值或输出转速值，选定所需减速机规格。
- 用户也可以根据已知的输入功率，结合速比值或输出转速 值，计算输出转矩，选定减速机。
- 本公司减速机均为右旋螺牙，根据右手定则，确定输入轴、输出轴回转方向。

Reducer selected

- At first it is better to make sure the value input machinery load T(torque) and then you can get the output torque through T multiply with work situation coefficient K1 and work situation revise coefficent K2 .The required model can be gained by the above and connecting ratio or output speed.
- You can also select the reducer as followings:calculate output torque according to known input power and then select the reducer in accordance with output torque and rotate speed.
- Our standard reducers all have right-hand helical tooth,deciding the rotating direction of input shaft and output shaft according to the rigtht-hand criterion.

选型示例

例1 通用传送带（均匀负荷）

转矩：19N.m， 运转时间：8小时/天
转速：约55r/min， 启动频率：10次/小时，
减速机：1/25， 环境温度：室内25℃， 电机直联

① 根据表1，决定负荷种类
负荷种类：无冲击均匀负荷，选A；
② 根据图1，在A线上取频率10次/小时的交点；查出运转时间8小时/天的系数K1=1；
③ 根据表2，查得系数K2=1；
④ 则转矩值为19×K1×K2=19×1×1=19N.m，可选择最接近19 N.m的减速机。

选定结果：YNMRV030-1/25

输入功率0.18kW，输出转速56转/分，输出转矩21N.m

校核:实际输出转矩=输出转矩x使用系数(fs)=21×1.0=21N.m ＞19N.m，满足使用要求。

例2 输送带(中等冲击负荷)

转矩：65N.m，　　运转时间：16小时/天，

转速：约21r/min，　　启动频率：100次/小时

减速机：1/60，　　环境温度：室内35℃　　电机直联

① 根据表1，决定负荷种类

负荷种类：轻度冲击负荷，选B；

② 根据图1，在B线上取频率100次/小时的交点；查出运转时间16小时/天的系数K1=1.65；

③ 根据表2，查得系数K2=1.15；

④ 则转矩值为65×K1×K2=65×1.65×1.15=123N.m，可选择最接近123 N.m的减速机。

选定结果：YNMRV063-1/60

输入功率0.55kW，输出转速23.3转/分，输出转矩140N.m

校核：实际输出转矩=输出转矩x使用系数(fs)=140x0.9=126N.m ＞123N.m，满足使用要求。

Examples for model chosen

EX1 Common convey band (uniform load)

Torque:19N•m　　Turning time:8hours/day

Speed:About 55r/min　　Start frequency:10times/hour

Ratio:1/25　　Environment temperature:indoor 25℃　　Connect with motor directly

- Load classification:Uniform load,choose A.Select load classification according to table1.
- As per cross point of 10 times/hour frequency on line A in diagram 1,get coefficient K1 value is 1 that turning time is 8 hours/day.
- Get the coefficient K2 according to table 2.
- So the torque value is 19N • m.

Choose model: YNMRV030-1/25

Input power is 0.18KW,output speed is 56r/min,output torque is 21N•m

Check computation

You can get the actual output torque through the nominal output torque 21N•m multiply with the coefficient fs 1,so the actual output torque is 21 N•m＞19N•m.The selected model is suitable for use.

Ex2 Covey band(moderate load)

Torque:65N•m　　Turning time:16 hours/day

Speed:About 21r/min　　Start frequency:100 times/hour

Ratio:1/60　　Environment temperature:indoor 35℃　　Connect with motor directly

- As per load classification table 1 :moderate load,choose B.
- As per cross point of 100 times/hours frequency on line B in diagram 1,get coefficient K1 valer is 1.68 that turni -ng time is 16 hours/day.
- Get the coefficient K2 1.15 according to table 2.
- So the torque value is 65N • m.You can select the model that torque value most close to 123 N • m.

Choose model: YNMRV063-1/60

Input power is 0.55 KW,output speed is 23.3r/min,output torque is 140N•m

Check computation

You can get the actual output torque through the nominal output torque 140N•m mutiply with the coefficient fs 0.9,so the actual output is 126N•m＞123N•m.The selected model is suitable for use.

YDFORCE MOVING THE WORLD FORWARD YNMRV SERIES WORM GEARBOX YNMRV系列蜗轮蜗杆减速机

选型参数

Parameter selections

单级减速机(法兰输入，输入转速1400r/min)/(配4极电机)

Single step reducer (flange input, input speed is 1400r/min)/(matched with 4 poles motor)

机型代号 Model code	输出转速 Output speed r/min	输出转矩 Output torque N・m	传动比 Transmission ratio i	输出轴径向力 Output radial force kN	使用系数 fs
	0.06kW				
YNMRV025	186.7	2.6	7.5	0.5	4.2
	140	3.4	10	0.55	3.5
	93.3	4.9	15	0.63	2.5
	70	6.1	20	0.69	2.0
	46.7	8.2	30	0.79	1.6
	35	10	40	0.87	1.3
	28	12	50	0.94	0.9
	23.3	14	60	1	0.7
YNMRV030	186.7	2.6	7.5	0.68	6.9
	140	3.4	10	0.75	5.4
	93.3	4.7	15	0.86	3.8
	70	6	20	0.94	3.0
	56	7	25	1.02	3.0
	46.7	8	30	1.08	2.5
	35	9.7	40	1.19	1.9
	28	11	50	1.28	1.5
	23.3	13	60	1.36	1.3
	17.5	14	80	1.5	0.9
	0.09kW				
YNMRV025	186.7	3.9	7.5	0.5	2.8
	140	5.1	10	0.55	2.4
	93.3	7.3	15	0.63	1.6
	70	9.2	20	0.69	1.3
	46.7	12	30	0.79	1.1
	35	15	40	0.87	0.9
YNMRV030	186.7	3.9	7.5	0.68	4.6
	140	5	10	0.75	3.6
	93.3	7.1	15	0.86	2.5
	70	9	20	0.94	2.0
	56	10	25	1.02	2.0
	46.7	12	30	1.08	1.7
	35	14	40	1.19	1.2
	28	17	50	1.28	1.0
	23.3	19	60	1.36	0.9
YNMRV040	28	19	50	2.47	2.0
	23.3	21	60	2.63	1.7
	17.5	26	80	2.89	1.3
	14	29	100	3.11	1.0
	0.12kW				
YNMRV030	186.7	5.2	7.5	0.68	3.4

机型代号 Model code	输出转速 Output speed r/min	输出转矩 Output torque N・m	传动比 Transmission ratio i	输出轴径向力 Output radial force kN	使用系数 fs
	0.12kW				
YNMRV030	140	6.7	10	0.75	2.7
	93.3	9.5	15	0.86	1.9
	70	12	20	0.94	1.5
	56	14	25	1.02	1.5
	46.7	16	30	1.08	1.3
	35	19	40	1.19	0.9
	28	23	50	1.28	0.8
YNMRV040	46.7	17.2	30	2.08	2.6
	35	21	40	2.29	1.9
	28	25	50	2.47	1.5
	23.3	28	60	2.63	1.3
	17.5	34	80	2.89	1.0
	14	38	100	3.11	0.8
YNMRV050	23.3	29	60	3.61	2.3
	17.5	35	80	3.97	1.9
	14	40	100	4.28	1.4
	0.18kW				
YNMRV030	186.7	7.8	7.5	0.68	2.3
	140	10	10	0.75	1.8
	93.3	14	15	0.86	1.3
	70	18	20	0.94	1.0
	56	21	25	1.02	1.0
	46.7	24	30	1.08	0.8
YNMRV040	70	19	20	1.82	2.0
	56	23	25	1.96	1.7
	46.7	26	30	2.08	1.7
	35	32	40	2.29	1.3
	28	38	50	2.47	1.0
	23.3	43	60	2.63	0.8
YNMRV050	35	32	40	3.15	2.3
	28	39	50	3.39	1.9
	23.3	43	60	3.61	1.6
	17.5	52	80	3.97	1.2
	14	60	100	4.28	0.9
	0.25kW				
YNMRV040	186.7	11	7.5	1.31	3.6
	140	14	10	1.44	2.8
	93.3	21	15	1.65	1.9
	70	27	20	1.82	1.5

机型代号 Model code	输出转速 Output speed r/min	输出转矩 Output torque N·m	传动比 Transmission ratio i	输出轴径向力 Output radial force kN	使用系数 fs
	0.25kW				
YNMRV040	56	32	25	1.96	1.2
	46.7	36	30	2.08	1.3
	35	44	40	2.29	0.9
	28	37	50	2.47	0.8
YNMRV050	70	26	20	2.5	2.7
	56	32	25	2.69	2.2
	46.7	37	30	2.86	2.3
	35	46	40	3.15	1.7
	28	54	50	3.39	1.4
	23.3	60	60	3.61	1.1
	17.5	72	80	3.97	0.9
YNMRV063	28	56	50	4.44	2.4
	23.3	63	60	4.71	2.0
	17.5	78	80	5.19	1.6
	14	87	100	5.59	1.4
	0.37kW				
YNMRV040	186.7	16	7.5	1.31	2.4
	140	21	10	1.44	1.9
	93.3	31	15	1.65	1.3
	70	39	20	1.82	1.0
	56	47	25	1.96	0.8
	46.7	53	30	2.08	0.8
YNMRV050	140	21	10	1.98	3.3
	93.3	31	15	2.27	2.4
	70	40	20	2.5	1.8
	56	48	25	2.69	1.5
	46.7	55	30	2.86	1.5
	35	68	40	3.15	1.1
	28	80	50	3.39	0.9
	23.3	89	60	3.61	0.8
YNMRV063	35	70	40	4.12	2.1
	28	83	50	4.44	1.6
	23.3	94	60	4.71	1.4
	17.5	115	80	5.19	1.1
	14	129	100	5.59	0.9
	0.55kW				
YNMRV050	186.7	25	7.5	1.8	2.9
	140	32	10	1.98	2.2
	93.3	46	15	2.27	1.6
	70	59	20	2.5	1.2
	56	71	25	2.69	1.0
	46.7	81	30	2.86	1.0
	35	80	40	3.15	0.9

机型代号 Model code	输出转速 Output speed r/min	输出转矩 Output torque N·m	传动比 Transmission ratio i	输出轴径向力 Output radial force kN	使用系数 fs
	0.55kW				
YNMRV063	70	60	20	3.27	2.2
	56	73	25	3.52	1.8
	46.7	83	30	3.74	1.9
	35	105	40	4.12	1.4
	28	124	50	4.44	1.1
	23.3	140	60	4.71	0.9
YNMRV075	35	108	40	4.86	2.0
	28	129	50	5.24	1.6
	23.3	146	60	5.56	1.4
	17.5	180	80	6.13	1.1
	14	206	100	6.6	0.9
YNMRV090	17.5	189	80	6.78	1.5
	14	221	100	7.3	1.2
	0.75kW				
YNMRV050	186.7	34	7.5	1.8	2.1
	140	44	10	1.98	1.6
	93.3	63	15	2.27	1.2
	70	81	20	2.5	0.9
YNMRV063	93.3	63	15	2.97	2.2
	70	83	20	3.27	1.6
	56	100	25	3.52	1.3
	46.7	114	30	3.74	1.4
	35	143	40	4.12	1.0
YNMRV075	56	102	25	4.16	2.0
	46.7	117	30	4.42	2.0
	35	147	40	4.86	1.5
	28	177	50	5.24	1.2
	23.3	200	60	5.56	1.0
YNMRV090	28	184	50	5.79	1.8
	23.3	212	60	6.16	1.5
	17.5	258	80	6.78	1.1
	14	302	100	7.3	0.9
	1.1kW				
YNMRV063	186.7	49	7.5	2.35	2.6
	140	65	10	2.59	2.0
	93.3	93	15	2.97	1.5

机型代号 Model code	输出转速 Output speed r/min	输出转矩 Output torque N·m	传动比 Transmission ratio i	输出轴径向力 Output radial force kN	使用系数 fs
	1.1kW				
YNMRV063	70	122	20	3.27	1.1
	56	146	25	3.52	0.9
	46.7	167	30	3.74	1.0
	35	165	40	3.59	0.9
YNMRV075	93.3	95	15	3.5	2.1
	70	123	20	3.86	1.7
	56	150	25	4.16	1.3
	46.7	171	30	4.42	1.3
	35	216	40	4.86	1.0
	28	264	50	4.6	0.9
	23.3	223	60	4.89	0.8
YNMRV090	35	225	40	5.38	1.6
	28	270	50	5.79	1.3
	23.3	311	60	6.16	1.0
	17.5	328	80	6.17	0.9
YNMRV110	28	281	50	7.32	2.3
	23.3	324	60	7.78	1.9
	17.5	402	80	8.57	1.3
	14	473	100	9.23	1.0
	1.5kW				
YNMRV063	186.7	67	7.5	2.35	1.9
	140	89	10	2.59	1.5
	93.3	127	15	2.97	1.1
	70	166	20	3.27	0.8
YNMRV075	140	90	10	3.06	2.2
	93.3	130	15	3.5	1.5
	70	168	20	3.86	1.3
	56	205	25	4.16	1.0
	46.7	233	30	4.42	1.0
YNMRV090	70	171	20	4.27	2.1
	56	210	25	4.6	1.6
	46.7	239	30	4.89	1.7
	35	307	40	5.38	1.2
	28	368	50	5.79	0.9
	23.3	424	60	6.16	0.8
YNMRV110	35	319	40	6.8	2.2
	28	384	50	7.32	1.7
	23.3	442	60	7.78	1.4
	17.5	548	80	8.57	0.9
	2.2kW				
YNMRV075	186.7	100	7.5	2.78	1.8
	140	132	10	3.06	1.5
	93.3	191	15	3.5	1.0
	70	240	20	3.38	0.9
	46.7	269	30	3.89	0.8
YNMRV090	186.7	101	7.5	3.08	2.9

机型代号 Model code	输出转速 Output speed r/min	输出转矩 Output torque N·m	传动比 Transmission ratio i	输出轴径向力 Output radial force kN	使用系数 fs
	2.2kW				
YNMRV090	140	134	10	3.39	2.3
	93.3	194	15	3.88	1.9
	70	252	20	4.27	1.4
	56	308	25	4.6	1.1
	46.7	351	30	4.89	1.2
	35	433	40	4.9	1.0
	28	393	50	5.28	0.9
YNMRV110	70	255	20	5.39	2.5
	56	315	25	5.81	2.2
	46.7	356	30	6.18	2.0
	35	468	40	6.8	1.5
	28	563	50	7.32	1.2
	23.3	648	60	7.78	1.0
YNMRV130	35	468	40	8.89	2.2
	28	563	50	9.58	1.7
	23.3	648	60	10.18	1.4
	17.5	816	80	11.21	1.0
	14	869	100	10.62	0.8
YNMRV150	28	570	50	13.1	2.5
	23.3	657	60	13.92	1.9
	17.5	816	80	15.32	1.4
	14	960	100	16.5	1.0
	3kW				
YNMRV075	186.7	136	7.5	2.78	1.4
	140	180	10	3.06	1.1
	93.3	261	15	3.5	0.8
YNMRV090	186.7	138	7.5	3.08	2.1
	140	182	10	3.39	1.7
	93.3	264	15	3.88	1.4
	70	344	20	4.27	1.0
	56	420	25	4.6	0.8
	46.7	479	30	4.89	0.9
YNMRV110	93.3	264	15	4.9	2.5
	70	348	20	5.39	1.9
	56	430	25	5.81	1.6
	46.7	485	30	6.18	1.5
	35	638	40	6.8	1.1
	28	767	50	7.32	0.9
YNMRV130	56	429	25	7.6	2.2
	46.7	491	30	8.08	2.1
	35	638	40	8.89	1.6
	28	767	50	9.58	1.3
	23.3	884	60	10.18	1.0
	17.5	1113	80	11.21	0.8

机型代号 Model code	输出转速 Output speed r/min	输出转矩 Output torque N·m	传动比 Transmission ratio i	输出轴径向力 Output radial force kN	使用系数 fs
	3kW				
YNMRV150	28	777	50	13.1	1.8
	23.3	896	60	13.92	1.4
	17.5	1113	80	15.32	1.0
	14	1310	100	16.5	0.8
	4kW				
YNMRV075	186.7	182	7.5	2.44	1.0
	140	240	10	3.06	0.8
YNMRV090	186.7	184	7.5	3.08	1.6
	140	243	10	3.39	1.3
	93.3	352	15	3.88	1.0
	70	458	20	4.27	0.8
YNMRV110	140	242	10	4.28	2.5
	93.3	352	15	4.9	1.9
	70	464	20	5.39	1.4
	56	573	25	5.81	1.2
	46.7	647	30	6.18	1.1
YNMRV130	56	573	25	7.6	1.6
	46.7	655	30	8.08	1.6
	35	851	40	8.89	1.2
	28	1023	50	9.58	1.0
	23.3	1179	60	10.18	0.8
YNMRV150	28	1036	50	13.1	1.4
	23.3	1195	60	13.92	1.1
	17.5	1484	80	15.32	0.8
	5.5kW				
YNMRV110	186.7	253	7.5	3.89	2.2
	140	334	10	4.28	1.8
	93.3	484	15	4.9	1.4
	70	638	20	5.39	1.0
	56	711	25	5.15	0.9
YNMRV130	140	333	10	5.6	2.5
	93.3	490	15	6.41	1.9
	70	645	20	7.06	1.4
	56	788	25	7.6	1.2
	46.7	900	30	8.08	1.2
	35	1171	40	8.89	0.9
	28	1103	50	8.51	0.8
YNMRV150	70	645	20	9.65	2.0
	56	788	25	10.4	1.5
	46.7	934	30	11.05	1.3
	35	1171	40	12.16	1.3

机型代号 Model code	输出转速 Output speed r/min	输出转矩 Output torque N·m	传动比 Transmission ratio i	输出轴径向力 Output radial force kN	使用系数 fs
	5.5kW				
YNMRV150	28	1426	50	13.1	1.0
	23.3	1643	60	13.92	0.8
	7.5kW				
YNMRV110	186.7	345	7.5	3.89	1.6
	140	455	10	4.28	1.3
	93.3	660	15	4.9	1.0
YNMRV130	186.7	349	7.5	5.09	2.1
	140	455	10	5.6	1.8
	93.3	668	15	6.41	1.4
	70	880	20	7.06	1.0
	56	1074	25	7.6	0.9
	46.7	1228	30	8.08	0.8
	35	1596	40	8.89	0.7
YNMRV150	70	880	20	9.65	1.5
	56	1074	25	10.4	1.1
	46.7	1274	30	11.05	0.9
	35	1596	40	12.16	1.0
	11kW				
YNMRV150	186.7	512	7.5	6.96	2.3
	140	675	10	7.66	1.8
	93.3	990	15	8.77	1.3
	70	1291	20	9.65	1.0
	56	1576	25	10.4	0.8
	15kW				
YNMRV150	186.7	698	7.5	6.96	1.7
	140	921	10	7.66	1.3
	93.3	1351	15	8.77	0.9
	70	1760	20	9.65	0.7

YDFORCE MOVING THE WORLD FORWARD
YNMRV SERIES WORM GEARBOX YNMRV系列蜗轮蜗杆减速机

双级减速机(法兰输入，输入转速1400r/min)/(配4极电机)

Double step reducer(flange input，input speed is 1400r/min)/(matched with 4 poles motor)

组合机型规格 Combination model Size	输出转速 Output speed r/min	输出转矩 Output torque N·m	总传动比 General transmission ratio i	高速级传动比 High speed transmission ratio i_1	低速级传动比 Low speed transmission ratio i_2	输出轴径向力 Output radial force kN	使用系数 fs
	0.06kW						
25/30	14	25	100	10	10	1.62	1.3
	9.3	32	150	10	15	1.83	0.9
	7.0	41	200	10	20	1.83	0.7
	5.6	44	250	10	25	1.83	0.8
25/40	4.7	59	300	10	30	3.49	1.2
	3.5	71	400	10	40	3.49	0.9
	2.8	82	500	20	25	3.49	0.7
	2.3	101	600	20	30	3.49	0.6
	1.9	116	750	25	30	3.49	0.5
	1.6	143	900	30	30	3.49	0.5
	1.2	171	1200	30	40	3.49	0.4
	0.9	197	1500	50	30	3.49	0.3
	0.78	217	1800	60	30	3.49	0.3
	0.6	268	2400	60	40	3.49	0.2
	0.5	324	3000	60	50	3.49	0.2
	0.4	294	4000	50	80	3.49	0.1
	0.3	356	5000	50	100	3.49	0.1
30/40	4.7	57	300	10	30	3.49	1.3
	3.5	70	400	10	40	3.49	0.9
	2.8	96	500	20	25	3.49	0.6
	2.3	104	600	20	30	3.49	0.7
	1.9	121	750	25	30	3.49	0.6
	1.6	139	900	30	30	3.49	0.5
	1.2	166	1200	30	40	3.49	0.4
	0.9	196	1500	50	30	3.49	0.4
	0.78	218	1800	60	30	3.49	0.3
	0.58	261	2400	60	40	3.49	0.2
	0.4	300	3200	80	40	3.49	0.2
	0.4	279	4000	50	80	3.49	0.1
	0.28	338	5000	50	100	3.49	0.1
30/50	1.6	141	900	30	30	4.84	1.0
	1.2	169	1200	30	40	4.84	0.7
	0.93	199	1500	50	30	4.84	0.7
	0.78	222	1800	60	30	4.84	0.7
	0.6	266	2400	60	40	4.84	0.5
	0.5	307	3000	60	50	4.84	0.4
	0.35	288	4000	50	80	4.84	0.3
	0.29	311	4800	60	80	4.84	0.3
30/63	0.9	203	1500	30	50	6.27	1.1
	0.78	225	1800	30	60	6.27	0.9
	0.58	276	2400	60	40	6.27	0.8

组合机型规格 Combination model Size	输出转速 Output speed r/min	输出转矩 Output torque N·m	总传动比 General transmission ratio i	高速级传动比 High speed transmission ratio i_1	低速级传动比 Low speed transmission ratio i_2	输出轴径向力 Output radial force kN	使用系数 fs
	0.06kW						
30/63	0.47	319	3000	60	50	6.27	0.7
	0.35	306	4000	50	80	6.27	0.6
	0.28	360	5000	50	100	6.27	0.4
40/75	0.6	330	2400	60	40	7.38	1.1
	0.47	377	3000	60	50	7.38	0.8
	0.35	355	4000	50	80	7.38	0.7
	0.28	419	5000	50	100	7.38	0.5
40/90	0.5	405	3000	60	50	8.18	1.4
	0.35	365	4000	50	80	8.18	1.3
	0.28	431	5000	50	100	8.18	1.0
	0.06kW						
25/30	14	37	100	10	10	1.62	0.8
	9.3	49	150	10	15	1.83	0.6
	7.0	62	200	10	20	1.83	0.5
	5.6	66	250	10	25	1.83	0.5
	4.7	75	300	10	30	1.83	0.4
	3.5	107	400	10	40	1.83	0.3
	2.8	115	500	20	25	1.83	0.2
	2.3	135	600	20	30	1.83	0.2
	1.9	151	750	25	30	1.83	0.2
	1.6	178	900	30	30	1.83	0.2
	1.2	212	1200	30	40	1.83	0.1
	0.9	247	1500	50	30	1.83	0.1
	0.78	304	1800	60	30	1.83	0.1
	0.58	340	2400	60	40	1.83	0.1
	0.47	405	3000	60	50	1.83	0.1
30/40	4.7	88	300	10	30	3.49	0.8
30/50	3.5	107	400	10	40	4.84	1.2
	2.8	123	500	10	50	4.84	1.0
	2.3	159	600	20	30	4.84	0.9
	1.9	185	750	25	30	4.84	0.8
	1.6	212	900	30	30	4.84	0.7
30/63	1.6	200	900	15	60	6.27	1.0
	1.2	263	1200	30	40	6.27	0.9
	0.93	305	1500	30	50	6.27	0.7
40/75	0.9	359	1500	50	30	7.38	1.1
	0.78	404	1800	60	30	7.38	1
	0.58	496	2400	60	40	7.38	0.7
40/90	0.5	608	3000	60	50	8.18	0.9
	0.35	548	4000	50	80	8.18	0.8

组合机型规格 Combination model Size	输出转速 Output speed r/min	输出转矩 Output torque N·m	总传动比 General transmission ratio i	高速级传动比 High speed transmission ratio i_1	低速级传动比 Low speed transmission ratio i_2	输出轴径向力 Output radial force kN	使用系数 fs
	0.12kW						
30/50	4.7	118	300	10	30	4.84	1.2
	3.5	142	400	10	40	4.84	0.9
	2.8	164	500	10	50	4.84	0.7
30/63	2.8	171	500	10	50	6.27	1.3
	2.3	208	600	15	40	6.27	1.1
	1.9	241	750	15	50	6.27	0.9
40/75	1.6	324	900	30	30	7.38	1.2
	1.2	399	1200	30	40	7.38	0.9
40/90	0.78	546	1800	30	60	8.18	0.9
	0.58	695	2400	60	40	8.18	0.9
50/110	0.5	883	3000	60	50	10.32	1.2
	0.35	784	4000	50	80	10.32	1.0
	0.28	928	5000	50	100	10.32	0.8
	0.18kW						
30/63	3.5	221	400	10	40	6.27	1.0
	2.8	257	500	10	50	6.27	0.8
40/75	2.3	362	600	20	30	7.38	1.1
	1.9	435	750	25	30	7.38	0.9
	1.6	487	900	30	30	7.38	0.8
40/90	1.2	629	1200	30	40	8.18	1.0
	0.93	735	1500	30	50	8.18	0.8
50/110	0.78	860	1800	60	30	10.32	1.5
	0.58	1113	2400	60	40	10.32	1.1
	0.25kW						
40/75	3.5	336	400	10	40	7.38	1.1
	2.8	384	500	10	50	7.38	0.8
40/90	2.3	511	600	15	40	8.18	1.2
	1.9	598	750	15	50	8.18	0.9
	1.6	667	900	15	60	8.18	0.8
50/110	1.2	943	1200	30	40	10.32	1.3
	0.93	1064	1500	50	30	10.32	1.2
	0.78	1195	1800	60	30	10.32	1.1
63/130	0.6	1624	2400	60	40	13.5	1.0
	0.47	1935	3000	60	50	13.5	0.8
	0.35	2046	4000	50	80	13.5	0.6
	0.28	2430	5000	50	100	13.5	0.5

组合机型规格 Combination model Size	输出转速 Output speed r/min	输出转矩 Output torque N·m	总传动比 General transmission ratio i	高速级传动比 High speed transmission ratio i_1	低速级传动比 Low speed transmission ratio i_2	输出轴径向力 Output radial force kN	使用系数 fs
	0.25kW						
63/150	0.78	1199	1800	60	30	18	1.8
	0.6	1446	2400	60	40	18	1.8
	0.5	1713	3000	60	50	18	1.4
	0.4	2026	4000	50	80	18	0.9
	0.3	2251	5000	50	100	18	0.7
	0.37kW						
40/75	4.7	405	300	10	30	7.38	1.0
	3.5	498	400	10	40	7.38	0.7
40/90	4.7	401	300	7.5	40	8.18	1.5
	3.5	523	400	10	40	8.18	1.2
	2.8	611	500	10	50	8.18	0.9
	2.3	757	600	15	40	8.18	0.8
50/110	1.9	949	750	25	30	10.32	1.3
	1.6	1079	900	30	30	10.32	1.2
	1.2	1396	1200	30	40	10.32	0.8
63/130	0.9	1674	1500	50	30	13.5	1.1
	0.78	1887	1800	60	30	13.5	0.9
63/150	0.78	1774	1800	60	30	18	1.2
	0.6	2141	2400	60	40	18	1.2
	0.5	2535	3000	60	50	18	0.9
	0.55kW						
50/110	4.7	638	300	10	30	10.32	2.0
	3.5	826	400	10	40	10.32	1.4
	2.8	984	500	10	50	10.32	1.1
	2.3	1181	600	15	40	10.32	1.0
	1.9	1411	750	25	30	10.32	0.9
63/130	2.8	995	500	10	50	13.5	1.6
	1.9	1471	750	25	30	13.5	1.2
	1.2	2132	1200	30	40	13.5	0.8
63/150	0.78	2637	1800	60	30	18	0.8
	0.6	3182	2400	60	40	18	0.8
	0.75kW						
50/110	4.7	871	300	10	30	10.32	1.5
	3.5	1126	400	10	40	10.32	1.1

YDFORCE MOVING THE WORLD FORWARD
YNMRV SERIES WORM GEARBOX YNMRV系列蜗轮蜗杆减速机

组合机型规格 Combination model Size	输出转速 Output speed r/min	输出转矩 Output torque N·m	总传动比 General transmission ratio i	高速级传动比 High speed transmission ratio i_1	低速级传动比 Low speed transmission ratio i_2	输出轴径向力 Output radial force kN	使用系数 fs
	0.75kW						
63/130	2.8	1357	500	10	50	13.5	1.1
	2.3	1631	600	15	40	13.5	1.0
	1.9	2005	750	25	30	13.5	0.9
	1.6	2283	900	30	30	13.5	0.8
63/150	2.8	1290	500	10	50	18	1.8
	2.3	1529	600	15	40	18	1.7
	1.9	1783	750	25	30	18	1.3
	1.6	2215	900	30	30	18	0.9
	1.2	2680	1200	30	40	18	1.0
	1.1kW						
63/130	4.7	1312	300	10	30	13.5	1.3
	3.5	1671	400	10	40	13.5	1.0
	2.8	1991	500	10	50	13.5	0.8
63/150	9.3	752	150	10	15	18	3.1
	7.0	966	200	10	20	18	2.4
	5.6	1175	250	10	25	18	1.7
	4.7	1364	300	10	30	18	1.7
	3.5	1619	400	10	40	18	1.6
	2.8	1893	500	10	50	18	1.2
	2.3	2242	600	15	40	18	1.2
	1.9	2616	750	25	30	18	0.9
	1.5kW						
63/130	4.7	1789	300	10	30	13.5	1.0
	3.5	2279	400	10	40	13.5	0.7
63/150	9.3	1026	150	10	15	18	2.3
	7.0	1317	200	10	20	18	1.8
	5.6	1602	250	10	25	18	1.3
	4.7	1860	300	10	30	18	1.3
	3.5	2208	400	10	40	18	1.2
	2.8	2582	500	10	50	18	0.9
	2.3	3057	600	15	40	18	0.9

单级减速机(轴伸输入，输入转速1400r/min)

Single step reducer (shaft extend input，input speed is 1400r/min)

机型代号 Model code	输入轴功率 Input Power kW	输出转速 Output speed r/min	输出转矩 Output torque N·m	传动比 Transmission ratio i	输出轴径向力 Output radial force kN	输入轴径向力 Input radial force kN
YNMRV030	0.4	186.7	18	7.5	0.68	0.15
	0.3	140	18	10	0.75	0.16
	0.2	93.3	18	15	0.86	0.16
	0.2	70	18	20	0.94	0.19
	0.2	56	21	25	1.02	0.21
	0.2	46.7	20	30	1.08	0.21
	0.1	35	18	40	1.19	0.21
	0.1	28	17	50	1.28	0.21
	0.1	23.3	16	60	1.36	0.21
	0.1	17.5	13	80	1.5	0.21
YNMRV040	0.9	186.7	40	7.5	1.31	0.29
	0.7	140	40	10	1.44	0.33
	0.5	93.3	40	15	1.65	0.33
	0.4	70	39	20	1.82	0.35
	0.3	56	38	25	1.96	0.35
	0.3	46.7	45	30	2.08	0.35
	0.2	35	41	40	2.29	0.35
	0.2	28	39	50	2.47	0.35
	0.2	23.3	36	60	2.63	0.35
	0.1	17.5	33	80	2.89	0.35
	0.1	14	29	100	3.11	0.35
YNMRV050	1.6	186.7	71	7.5	1.8	0.4
	1.2	140	72	10	1.98	0.49
	0.9	93.3	74	15	2.27	0.49
	0.7	70	73	20	2.5	0.49
	0.5	56	70	25	2.69	0.49
	0.6	46.7	84	30	2.86	0.49
	0.4	35	76	40	3.15	0.49
	0.3	28	73	50	3.39	0.49
	0.3	23.3	68	60	3.61	0.49
	0.2	17.5	65	80	3.97	0.49
	0.2	14	55	100	4.28	0.49
YNMRV063	2.8	186.7	128	7.5	2.35	0.5
	2.2	140	130	10	2.59	0.57
	1.6	93.3	140	15	2.97	0.61
	1.2	70	135	20	3.27	0.66
	1.0	56	130	25	3.52	0.70
	1.1	46.7	160	30	3.74	0.70
	0.8	35	145	40	4.12	0.70
	0.6	28	135	50	4.44	0.70
	0.5	23.3	130	60	4.71	0.70

机型代号 Model code	输入轴功率 Input Power kW	输出转速 Output speed r/min	输出转矩 Output torque N·m	传动比 Transmission ratio i	输出轴径向力 Output radial force kN	输入轴径向力 Input radial force kN
YNMRV063	0.4	17.5	122	80	5.19	0.70
	0.3	14	118	100	5.59	0.70
YNMRV075	4.1	186.7	185	7.5	2.78	0.70
	3.2	140	195	10	3.06	0.83
	2.3	93.3	200	15	3.50	0.85
	1.9	70	210	20	3.86	0.98
	1.5	56	200	25	4.16	0.98
	1.5	46.7	230	30	4.42	0.98
	1.1	35	220	40	4.86	0.98
	0.9	28	210	50	5.24	0.98
	0.8	23.3	200	60	5.56	0.98
	0.6	17.5	190	80	6.13	0.98
	0.5	14	180	100	6.60	0.98
YNMRV090	6.3	186.7	290	7.5	3.08	0.90
	5.1	140	310	10	3.39	1.08
	4.1	93.3	360	15	3.88	1.25
	3.1	70	355	20	4.27	1.27
	2.4	56	340	25	4.60	1.27
	2.6	46.7	410	30	4.89	1.27
	1.8	35	360	40	5.38	1.27
	1.4	28	340	50	5.79	1.27
	1.1	23.3	320	60	6.16	1.27
	0.8	17.5	285	80	6.78	1.27
	0.7	14	270	100	7.30	1.27
YNMRV110	12	186.7	552	7.5	3.89	1.20
	9.8	140	598	10	4.28	1.46
	7.5	93.3	656	15	4.90	1.60
	5.6	70	644	20	5.39	1.70
	4.7	56	679	25	5.81	1.70
	4.5	46.7	725	30	6.18	1.70
	3.3	35	702	40	6.80	1.70
	2.6	28	660	50	7.32	1.70
	2.1	23.3	616	60	7.78	1.70
	1.4	17.5	515	80	8.57	1.70
	1.1	14	483	100	9.23	1.70
YNMRV130	16.1	186.7	750	7.5	5.09	1.50
	13.5	140	820	10	5.60	1.84
	10.3	93.3	920	15	6.41	2.07
	7.8	70	910	20	7.06	2.10
	6.5	56	930	25	7.60	2.10

YDFORCE MOVING THE WORLD FORWARD
YNMRV SERIES WORM GEARBOX
YNMRV系列蜗轮蜗杆减速机

机型代号 Model code	输入轴功率 Input Power kW	输出转速 Output speed r/min	输出转矩 Output torque N·m	传动比 Transmission ratio i	输出轴径向力 Output radial force kN	输入轴径向力 Input radial force kN
YNMRV130	6.4	46.7	1040	30	8.08	2.10
	4.9	35	1050	40	8.89	2.10
	3.8	28	980	50	9.58	2.10
	3.1	23.3	900	60	10.18	2.10
	2.3	17.5	840	80	11.21	2.10
	1.7	14	740	100	12.07	2.10
YNMRV150	25.8	186.7	1200	7.5	6.96	1.95
	20.2	140	1240	10	7.66	2.26
	13.9	93.3	1250	15	8.77	2.28
	11.1	70	1300	20	9.65	2.67
	8.4	56	1200	25	10.40	2.80
	7.1	46.7	1200	30	11.05	2.80
	7.3	35	1550	40	12.16	2.80
	5.4	28	1400	50	13.10	2.80
	4.2	23.3	1260	60	13.92	2.80
	3.1	17.5	1150	80	15.32	2.80
	2.3	14	1000	100	16.50	2.80

双级减速机(轴伸输入，输入转速1400r/min)

Double step reducer(shaft extend input, input speed is 1400r/min)

机型代号 Model code	输入轴功率 Input Power kW	输出转速 Output speed r/min	输出转矩 Output torque N·m	传动比 Transmission ratio i	输出轴径向力 Output radial force kN	输入轴径向力 Input radial force kN
30/40	0.1	4.7	73	300	3.49	0.21
	0.1	3.5	65	400	3.49	0.21
	0.08	2.8	61	500	3.49	0.21
	0.06	2.3	73	600	3.49	0.21
	0.04	1.9	73	750	3.49	0.21
	0.03	0.6	73	900	3.49	0.21
	0.02	1.2	65	1200	3.49	0.21
	0.02	0.9	73	1500	3.49	0.21
	0.02	0.78	73	1800	3.49	0.21
	0.01	0.58	65	2400	3.49	0.21
	0.01	0.4	65	3200	3.49	0.21
	0.01	0.35	33	4000	3.49	0.21
	0.01	0.28	29	5000	3.49	0.21
30/50	0.15	4.7	145	300	4.84	0.21
	0.1	3.5	124	400	4.84	0.21
	0.1	2.8	120	500	4.84	0.21
	0.1	2.3	145	600	4.84	0.21
	0.1	1.9	145	750	4.84	0.21
	0.1	1.6	145	900	4.84	0.21
	0.08	1.2	124	1200	4.84	0.21
	0.06	0.93	145	1500	4.84	0.21
	0.04	0.78	145	1800	4.84	0.21
	0.03	0.6	124	2400	4.84	0.21
	0.02	0.5	120	3000	4.84	0.21
	0.02	0.35	82	4000	4.84	0.21
	0.02	0.29	82	4800	4.84	0.21
30/63	0.24	4.7	230	300	6.27	0.21
	0.2	3.5	230	400	6.27	0.21
	0.2	2.8	216	500	6.27	0.21
	0.13	2.3	230	600	6.27	0.21
	0.11	1.9	216	750	6.27	0.21
	0.1	1.6	198	900	6.27	0.21
	0.1	1.2	230	1200	6.27	0.21
	0.1	0.93	216	1500	6.27	0.21
	0.1	0.78	198	1800	6.27	0.21
	0.1	0.58	230	2400	6.27	0.21
	0.08	0.47	216	3000	6.27	0.21
	0.06	0.35	172	4000	6.27	0.21
	0.04	0.28	150	5000	6.27	0.21
40/75	0.4	4.7	390	300	7.38	0.35
	0.3	3.5	360	400	7.38	0.35
	0.21	2.8	320	500	7.38	0.35

机型代号 Model code	输入轴功率 Input Power kW	输出转速 Output speed r/min	输出转矩 Output torque N·m	传动比 Transmission ratio i	输出轴径向力 Output radial force kN	输入轴径向力 Input radial force kN
40/75	0.2	2.3	390	600	7.38	0.35
	0.2	1.9	390	750	7.38	0.35
	0.14	1.6	390	900	7.38	0.35
	0.11	1.2	360	1200	7.38	0.35
	0.1	0.93	390	1500	7.38	0.35
	0.1	0.78	390	1800	7.38	0.35
	0.1	0.58	360	2400	7.38	0.35
	0.1	0.47	320	3000	7.38	0.35
	0.08	0.35	250	4000	7.38	0.35
	0.06	0.28	230	5000	7.38	0.35
40/90	0.6	4.7	610	300	8.18	0.35
	0.43	3.5	610	400	8.18	0.35
	0.34	2.8	560	500	8.18	0.35
	0.3	2.3	610	600	8.18	0.35
	0.23	1.9	560	750	8.18	0.35
	0.2	1.6	505	900	8.18	0.35
	0.2	1.2	610	1200	8.18	0.35
	0.14	0.93	560	1500	8.18	0.35
	0.11	0.78	505	1800	8.18	0.35
	0.11	0.58	610	2400	8.18	0.35
	0.1	0.47	560	3000	8.18	0.35
	0.1	0.35	460	4000	8.18	0.35
	0.1	0.28	410	5000	8.18	0.35
50/110	1.1	4.7	1265	300	10.32	0.49
	0.8	3.5	1185	400	10.32	0.49
	0.61	2.8	1100	500	10.32	0.49
	0.6	2.3	1185	600	10.32	0.49
	0.5	1.9	1265	750	10.32	0.49
	0.43	1.6	1265	900	10.32	0.49
	0.31	1.2	1186	1200	10.32	0.49
	0.3	0.93	1265	1500	10.32	0.49
	0.3	0.78	1265	1800	10.32	0.49
	0.2	0.58	1185	2400	10.32	0.49
	0.15	0.47	1100	3000	10.32	0.49
	0.13	0.35	819	4000	10.32	0.49
	0.1	0.28	746	5000	10.32	0.49
63/130	1.5	4.7	1760	300	13.5	0.7
	1.1	3.5	1650	400	13.5	0.7
	0.9	2.8	1550	500	13.5	0.7
	0.8	2.3	1650	600	13.5	0.7
	0.7	1.9	1760	750	13.5	0.7

YDFORCE MOVING THE WORLD FORWARD
YNMRV SERIES WORM GEARBOX
YNMRV系列蜗轮蜗杆减速机

机型代号 Model code	输入轴功率 Input Power kW	输出转速 Output speed r/min	输出转矩 Output torque N·m	传动比 Transmission ratio i	输出轴径向力 Output radial force kN	输入轴径向力 Input radial force kN
63/130	0.6	1.6	1760	900	13.5	0.7
	0.4	1.2	1650	1200	13.5	0.7
	0.4	0.93	1760	1500	13.5	0.7
	0.3	0.78	1760	1800	13.5	0.7
	0.3	0.58	1650	2400	13.5	0.7
	0.2	0.47	1550	3000	13.5	0.7
	0.1	0.35	1220	4000	13.5	0.7
	0.1	0.28	1100	5000	13.5	0.7
63/150	3.4	9.3	2340	150	18	0.7
	2.7	7.0	2340	200	18	0.7
	1.9	5.6	2050	250	18	0.7
	1.9	4.7	2340	300	18	0.7
	1.8	3.5	2670	400	18	0.7
	1.4	2.8	2330	500	18	0.7
	1.3	2.3	2670	600	18	0.7
	1.0	1.9	2330	750	18	0.7
	0.7	1.6	2100	900	18	0.7
	0.7	1.2	2670	1200	18	0.7
	0.4	0.78	2100	1800	18	0.7
	0.5	0.6	2670	2400	18	0.7
	0.3	0.5	2330	3000	18	0.7
	0.2	0.4	1880	4000	18	0.7
	0.2	0.3	1650	5000	18	0.7

使用说明

1.单级蜗杆减速机

1.1 减速机型号25-90采用优质铝合金压铸箱体，外形轻巧美观,结构紧凑,体积小，重量轻，节省安装空间，不易锈蚀。

1.2 减速机型号110-150采用灰铸铁铝模铸造，外型美观坚固，可多方位安装使用。

1.3 散热性能好，安全可靠，效率高。

1.4 承载能力高，传动平稳，振动小，噪音低。

1.5 具有动力输入及转矩输出的多种联接结构，满足多种联接需要;箱体外形设计及底脚孔设置布局适应多种安装方式，通用性强。

2.双级蜗杆减速机

2.1 由单级蜗杆减速机组合而成，具有单级蜗杆减速机的一切优点，和获得大的传动比。

2.2 常用双级组合机型为: 25/30、25/40、30/40、30/50、30/63、40/75、40/90、50/110、63/130、63/150，用户若有殊要求时,可根据实际需要选择25、30、40、50、63、75、90、110、130、150作为组合单元另行组合。

3.安装注意事项

3.1 减速机须安装在平整坚固的底座上，底脚螺栓必须紧固、防震。

3.2 原动机--减速机--工作机的各联接轴伸，去装后必须互相准确对准轴线。

3.3 减速机输入端及输出端轴伸外径尺寸公差按h6制作，与之相匹配的联轴器、皮带轮、链轮等传动件内孔需按合适公差尺寸配置，避免装配过紧损坏轴承，装配过松影响正常的动力传递。

3.4 链轮、齿轮等传动件装上轴伸时，应尽量靠近轴承，以减少轴伸弯曲应力。

3.5 减速机装配电机时，应在蜗杆头部内孔孔壁及键槽处涂抹黄油，避免装配过紧，防止轴孔日久生锈。

3.6 使用各类电机直联型减速机时，若电机重量偏大，应设支撑装置。

4.使用注意事项

4.1 使用前应注意检查减速机型式结构、中心距规格、传动比、输入轴连接方式、输出轴结构、输入轴输出轴轴指向和回转方向等是否符合使用要求,蜗杆输入转速不宜超过1500r/min。

4.2 开机时应逐步施加载荷,不能满载起动。

4.3 型号25-90减速机设有加油孔和放油孔，出厂时减速机内已加好ISO Vg320 润滑油，用户无需再加油,机器连续运转的500小时后, 应该更换润滑油。以后换油周期为6000小时。

4.4 型号110-150减速机设有加油孔、放油孔和油标，减速机内已加好IS0 VG460矿物润滑油，用户在使用前须拉掉通气器上橡胶环。首次运行400小时后换注新油，以后每隔约4000小时换油一次。

4.5 减速机允许最高油温为85℃，超过时应停机检查。

4.6 若减速机在使用前已放置时间超过4-6个月，而油封又未浸入润滑油中，推荐更换油封。

4.7 若减速机使用环境温度超出或低于表中规定使用环境温度5℃以上，请与我公司人员联系。

YDFORCE MOVING THE WORLD FORWARD YNMRV SERIES WORM GEARBOX YNMRV系列蜗轮蜗杆减速机

Operating Instructions

1. Single step worm gear reducer

1.1 The red ucer which is 25-90 made of Aluminu m alloy die-casting box，good looking in appearance，compact in structure rust proofing on Surface and small volume to save mounting space.

1.2 The reducer model 110-150 is made of cast iron which casted with Aluminum mould. It's good looking and solid, and can be used through the setting of multi-azimuth.

1.3 Good radiating characteristic leads safe and high efficiency for using.

1.4 The strong capacity of loading and overload ensure stable transmission, make less vibration and noise.

1.5 Varies of connecting structure for power input and torque output meet different requirements; the design of box outline and the set of foot hole is apt to with many kinds of mounting.

2.Double step worm gear reducer

2.1 It is combined by two single step reducers and has all the virtues of them. And you can get bigger ratio with it.

2.2 The models of 25/30、25/40、30/40、30/50、30/63、40/75、40/90、50/110、63/130、63/150， are in common use. You can choose 25、 30、 40、 50、 63、 75、 90、 110、 130、 150 as combination units to combine according to the fact of your special needs.

3. Notes of installation

3.1 The base-plate must be plane and stoutness，and the base-bolts must be screwed down and shockproof.

3.2 The connecting shafts of prime mover，reducer and operation device must be coaxial after installation.

3.3 The diameter tolerance zone of input and output shaft is j6 and h6, the holes of fittings(such as couplings，beltpulley，sprocket wheel and so on)must properly mate the shaft，which prevents bearing from breakage because of over-tight mate or avoid effecting normal power transmission because of over-loose mate.

3.4 Drivers such as sprocket wheel and gear must be fitted close to bearing in order to reduce bending stress of hanging shaft.

3.5 While assembling motor to the reducer， it is necessary to add butters to the worm shaft input hole and keyway, so as to avoid tightly assembling and rusting when it is used for a long time.

3.6 Supporting unit is required when reducers directly match with motors whose weight is bigger than normal types motor is a little bigger than normal.

4. Operating notes

4.1 Before using， please check carefully whether the reducer mode，distance size, ratio, input connecting method，output shaft structure，input and output shaft direction and revolving direction are right according to requirement. It is better for the input speed of worm shaft not more than 1500r/m in.

4.2 The load should be added step by step when using the machine. Never running it with full load.

4.3 The reducer which model is among 25-90 has the oil add hole only. It has been full of synthetic lubrication oil ISO VG 320. User doesn't need to think about oil adding.

4.4 Ther reducer model of 110-150 has oil add hole，oil out hole and oil gauge. Mineral lubrication oil ISO VG 460 has been filled in enough, before using，user must pull out the rubber ring of vent plug. After the first 400 hours running， clean the inter box and change new oil in it. Then change the oil once per 4000 hours.

4.5 The permitted temperature of the oil in reducer is 95℃. If up to this value， it must be stopped and checked.

4.6 We propose to change oil seal when the reducer has been stored over four to six months and the oil seal has n't been immersed in lubrication oil before using.

4.7 When the ambient temperature is 5℃ upper or lower than the normal level stated in the table，please contact with us.

油品润滑
Oil lubrication

润滑油选用表 Lubrication oil chosen table

减速机规格 Reducer size	25-90	110-150	
润滑油类型 Type of lubrication oil	合成润滑油Complex lubrication oil	矿物润滑油Mineral lubrication oil	
环境温度℃ Ambient temperature	-25 ~ +50	-5 ~ +40	-15 ~ +25
ISO VG	ISO VG 320	ISO VG 460	ISO VG 220
AGIP	TELIUM VSF320	BLASIA 460	BLASIA 220
SHELL	TIVELA OIL Sc320	OMALA OIL 460	OMALA OIL 220
ESSO	S220	SPARTAN EP460	SPARTAN EP220
MOBIL	GLYGOYLE 320	MOBIL GEAR 634	MOBIL GEAR 630
CASTROL	ALPHASYN PG320	ALPHA MAX 460	ALPHA MAX 220
BP	ENERGOL SG-XP320	ENERGOL GR-XP460	ENERGOL GR-XP220

润滑油注油量(L) Adding capacity of lubrication oil

规格 Type / 安装型式 Installation	025	030	040	050	063	075	090	110	130	150
B3	0.02	0.04	0.08	0.15	0.3	0.55	1	3	4.5	7
B6 B7								2.5	3.5	5.4
B8								2.2	3.3	5.1
V5								3	4.5	7
V6								2.2	3.3	5.1

故障分析
Malfunctions Analysis

故障情况 Fault Description	故障原因 Reasons	解决办法 Solutions
过热 Overheating	原动力、减速机、工作机连接不当 Improper connection among prime morer, reducer and the operation device	调整至适当位置，使三者相联轴线同轴 Adjust to proper position
	超负荷运转 Overloading	适当调整负荷 Adjust to proper load
	油封过度磨擦 Over Friction of oil seals	在油封唇口处滴润滑油 Drop lubricant at oil seal
	☆润滑油过少或过多 ☆Lubricant oil over much or shortage	按注油方式或调整油量 Adjust to proper oil quantity as lubricant capacity table
	☆润滑油杂质多或润滑性差 ☆Much impurity in oil or inlerior oil	按润滑油选用表更换合适新油 Refill proper oil
振动 Vibration	原动力、减速机、工作机固定不良 Prime mover, reducer and the operation device mount badly	查出不良固定部件，正确固紧 Find out the bad place, tighten it
	蜗轮副齿部磨耗或损伤 Tooth surface of worm gear sets worm-out or damaged	更换蜗轮副(需要时本公司配合) Replace worm gear sets(we will cooperate with you when necessary)
	轴承磨损 Bearing worn-out	更换轴承 Replace Bearing
	螺栓松脱 Bolt loose	固紧螺栓 Tighten Screw
杂音 Noise	原动机与减速机连接不当 Improper connection among prime mover, reducer and the operation device	原动机重新调整连接 Adjust to proer position
	辅承损伤或间隙过大 Bearing damaged or too large clearance	更换轴承 Replace Bearing
	蜗轮副齿合不良 Worm gear sets mesh badly	修整齿面或更换蜗轮副(请与本公司联系) Mend tooth surface or replace worm gear sets (please contact to us)
	☆润滑油不足 ☆Lubricant oil shortage	按注油方式或补加润滑油 Fill in adequate oil as lubricant capacity table
漏油 Oilleakage	油封唇口磨损 Oil seal lip worm-out	更换油封 Replace oil seal
	油封档轴颈磨损 Shalt of oil seal area worn-out	更换输入轴或带轮轴蜗轮 Replace input or output shall with worm gear
	放油螺塞未旋紧 Oil screw plug loose	螺纹处加密封胶，旋紧螺塞 Tighten oil screw plug
	油标破损 Oil gauge damaged	更换油标 Replace oil gauge
蜗轮副齿面磨损过快 Tooth surface of worm gear sets abrade extra-quickly	超负荷运转 Overload	调整至适当负荷 Adjust to proper loading
	☆润滑油不符合要求 ☆Lubricant oil not according with requirement	更换合适的润滑油 Replace proper lubricant oil
	☆润滑油不足 ☆Lubricant oil shortage	按油标指示点加足润滑油 Fill adequate oil as indication
	未按规定适时换油，润滑油劣化 Not replacing lubricant oilin time according to requiremen, oil deteriorates	按规定要求适时更换润滑油 Replacing oil in time according to require ment
	运转温度过高 Overheating while running	1.按“过热”故障处理 2.采取合适措施，降低周边环境温度 1.Deal with it as"Overheating" 2.Adopting proper measures to make environment temperature fall

注: 1.☆为换油后出现的故障原因。
2.如果发生其他故障无法解决时，请随时与我们联系，以便提供咨询服务。
Annotate:1.☆Accored after the lu bricant changed.
2.If other faults not listed above occur,Please contact with us at any moment，Our company will supply thorough consultation and service.