

FECO

FECO[®]

Worm gear reducer
选型手册 / PRODUCTS BROCHURE

蜗轮蜗杆减速机



FECO CHINA

www.fecochina.cn

美玉之魂，源于精雕
产品之质，出于匠心

我们精雕细琢的用心只是为了——

- 让您选型更省心
- 让您采购更安心
- 让您使用更放心



匠心传承 制作精品
Fine Fiece Of Craftsmanship

DIRECTORY

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公司简介 Company Profile

FECO凭借先进的德国技术、专业的设计团队，以其精湛的加工技术，独特的齿轮工艺，引入先进的生产和检测设备，精心研制蜗轮蜗杆减速机。并以卓越的品质、科学的管理办法，获得多项认证：CE，ISO9001-2015，CCC认证。

长期以来，FECO秉持以“产品质量为企业生命”的原则，传承匠心，雕琢精品，创新科技，追求卓越。以过硬的产品质量、快捷优质的服务使产品畅销世界各地，在东南亚、欧美、中东地区的多个国家建立良好的市场。

在工业化快速发展的今天，FECO将一如既往为用户提供创新的集成式智能化解决方案，为全球精密传动行业服务，努力开创智能制造设计的新纪元。

FECO With the advanced German technology, professional design team, exquisite processing technology and unique gear technology, our company introduced advanced production and inspection equipment. Within outstanding quality and Scientific management. We have already obtained the CE certification, ISO9001:2015 certification, CCC certification ect.

Product quality as life, craftsmanship heritage, carve the high-quality goods, technological innovation, pursuit of excellence, speedy quality of service as our concepts. FECO products has been sold in Europe, America ,Southeast Asia, the Middle east and around the world.

In the modern industry fast development today, FECO will as always to provide customer innovative integrated intelligent solutions ,service for global high precision transmission and break new ground in Intelligent manufacturing design.



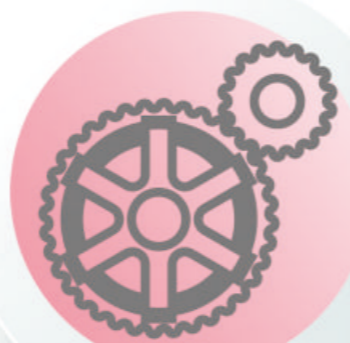
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Seiko quality Driving the world

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的物流系统管理

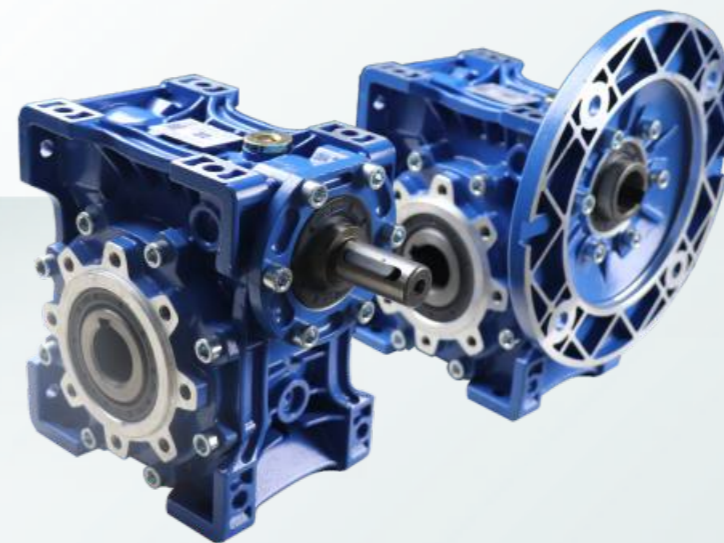


德国技术团队
设计严谨，匠心制作



传动效率高
传递扭矩大

FECO[®] 蜗轮蜗杆减速电机



模块化组合

蜗杆采用优质合金钢
蜗轮采用10-1锡青铜
高精度研磨加工

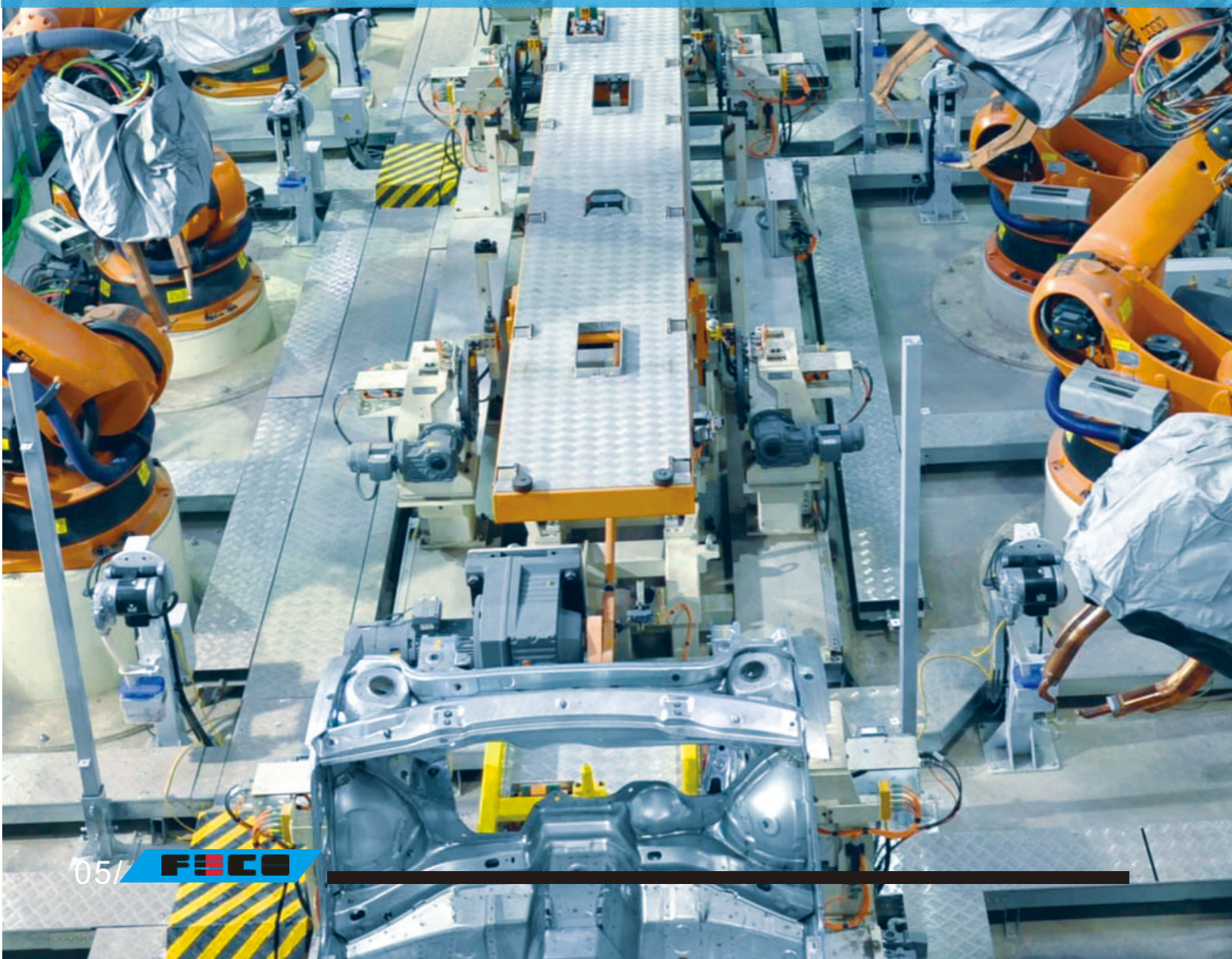




NMRV SERIES

NMRV系列

应用领域: 自动流水线



NMRV

匠心传承 制作精品
FINE PIECE OF CRAFTSMANSHIP

产品概述 / PRODUCTS OVERVIEW

产品特点

NMRV系列蜗轮蜗杆减速机具有以下一些主要特点：

1. 优质铝合金铸造，重量轻，不生锈；
2. 输出扭矩大；
3. 传动平稳，噪音小，适合在恶劣环境中长期连续工作；
4. 散热效率高；
5. 美观耐用，体积小；
6. 可适应全方位安装。

主要材料

1. 外壳：铝合金（机座：025 - 090），铸铁（机座：110 - 150）；
2. 蜗杆：20Cr，渗碳淬火，齿面硬度56 - 62HRC，精磨后保持渗碳层厚度0.3 - 0.5mm；
3. 蜗轮：耐磨锡青铜。

表面涂装

铝合金外壳：

1. 先抛丸处理，再经特种防腐处理，保持银白金属感，并耐汽油、二甲苯等有机溶剂的腐蚀；
2. 磷化处理，再喷RAL5010蓝色或银白色涂料。

铸铁外壳：先涂红色防锈漆，后喷涂RAL5010蓝色涂料。

PRODUCTS CHARACTERISTICS

NMRV series worm gear units is a new-generation of product developed by our company on the basis of perfecting WJ series products with a compromise of advanced technology both at home and abroad. Its main features are as follows:

1. Made of high-quality aluminum alloy, light weight and non-rusting.
2. Large output torque.
3. Smooth in running and low in noise, can work long time in dreadful conditions.
4. High in radiating efficiency.
5. Good-looking in appearance, durable in service life and small in volume.
6. Suitable for omnibearing installation.

MAIN MATERIALS

1. Housing: die-cast aluminum alloy(frame size 025 to 090);cast iron(frame size:110 to 150);
2. Worm: 20Cr, carbonize&quencher heat treatment make the hardness of gear's surface up to 56-62HRC,retain carburation layer's thickness between 0.3 and 0.5mm after precise grinding.
3. Worm wheel: wearable stannum bronze alloy.

SURFACE PAINTING

Aluminum alloy housing:

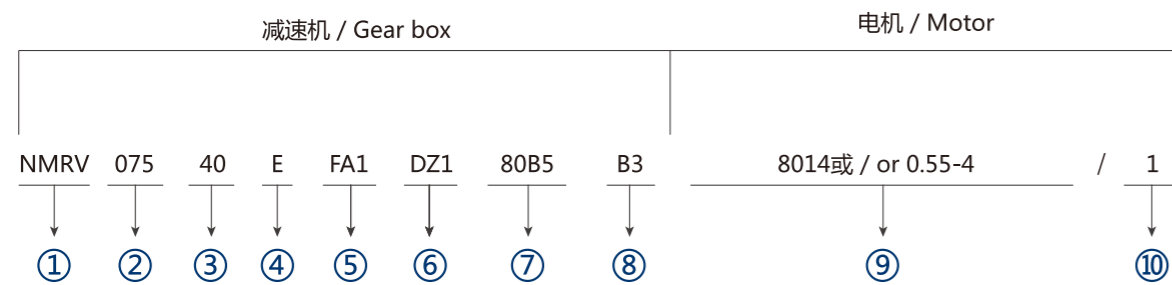
1. Shot blasting and special antiseptic treat-ment on the aluminum alloy surface.
2. After phosphating, paint with RAL5010 blue or silvery white paint.

Cast iron housing: First paint with red antirust paint, then paint white RAL5010 blue or silvery white paint.

NMRV

型号说明 / MODEL ILLUMINATE

NMRV/NRV 蜗轮蜗杆减速电机与减速机
WORM GEARED MOTORS AND WORM GEAR UNITS



| NO | 说明 | Comments |
|----|--|--|
| 1 | 型号代码： 1. RV孔输入带输入法兰 2. NRV轴输入不带输入法兰 | Model code 1. RV:Hole input with flange 2. NRV:Shaft input without flange |
| 2 | 蜗轮蜗杆减速机中心距（规格） | Central distance of worm gear units(spec) |
| 3 | 减速机速比 (i=5,7.5,10,15,20,25,30,40,50,60,80,100) | Speed ratio of reducer r(i=5,7.5;10;15;20;25;30;40;50;60;80;100) |
| 4 | 1. 无代号表示不带蜗杆同向尾出轴 2. E：带蜗杆同向尾出轴 | 1. No mark means single extension worm shaft 2. E: Double extension worm shaft |
| 5 | 1. 无代号表示不带输出法兰 2. FA,FB,FC,FD,FE(1/2):输出法兰号和位置 | 1. No mark means without output flange 2. FA,FB,FC,FD,FE(1/2):output Flange and position |
| 6 | 1. 无代号表示孔输出 2. DZ (1/2)：单向输出轴和位置 3. SZ：双向输出轴 | 1. No mark means hole output 2. DZ(1/2):Single output shaft and position 3. SZ:Double output shaft |
| 7 | 输入法兰规格型式（不带电机时） | Normalized from of input flange(without motor) |
| 8 | 安装方位代号 | Installation position code |
| 9 | 1. 无代号表示不带电机 2. 电机型号或功率，极数 | 1. No mark means without motor 2. Model motors(poles of power) |
| 10 | 电机接线盒位置，默认位置1可以不写 | Position diagram for motor terminal box default position 1 not to write out is ok |

NMRV

选型相关参数 / RELEVANT PARAMETER

功率 P

$$P_1 = P_2 / \eta \text{ (kw)}$$

$$P_{1n} \geq P_1 \cdot fs \text{ (kw)}$$

P₁ 输入功率
P₂ 输出功率
P_{1n} 输入电机额定功率

fs 使用系数
η 传动效率

在NMRV蜗轮蜗杆减速机选型表中，这个功率P_{1n}是指在输入转速为n₁并且对应的使用系数fs=1时，减速机的安全输入功率，单位kw。

传动效率η值是减速机经过足够长时间的跑合后计算得到的。跑合后在动转过程中，表面温度下降并最终稳定。需要特别强调的是样本中给定的额定转矩值M_{2n}应该考虑到传动效率η的关系。

Power P

$$P_1 = P_2 / \eta \text{ (kw)}$$

$$P_{1n} \geq P_1 \cdot fs \text{ (kw)}$$

P₁ Input power
P₂ Output power
P_{1n} Rated input motor power

fs Service factor
η Transmission efficiency

The parameter can be found in the NMRV gear-box rating charts and represents the kw that can be safely transmitted to the gearbox, based on input speed n₁ and service factor fs=1.

Values of η are calculated for gearboxes after a sufficiently in operation reduces and finally stabilizes. It may be worth high lighting that values of rated torque M_{2n} given in the catalogue take the transmission efficiency η into consideration.

转速 n

n₁ 减速机输入转速
n₂ 减速机输出转速
若是减速箱外部传动装置驱动，为了优化工作条件和提高使用寿命，建议使用1400r/min或更低转速。

ROTATION SPEED N

n₁ Gear units input speed
n₂ Gear units output speed
If driven by the external gearing, 1400r/min or lower rotation speed is suggested so as to optimize the working conditions and prolong the service life.

传动比 i

$$i = n_1 / n_2$$

TRANSMISSION RATIO I

$$i = n_1 / n_2$$

扭矩 M

$$M_2 = 9550 \cdot P_1 \cdot \eta / n_2 \text{ (Nm)}$$

$$M_{2n} \geq M_2 \cdot fs \text{ (Nm)}$$

M₂ 输出扭矩
M_{2n} 额定输出扭矩
P₁ 输入功率
η 传动效率
fs 使用系数

TORQUE M

$$M_2 = 9550 \cdot P_1 \cdot \eta / n_2 \text{ (Nm)}$$

$$M_{2n} \geq M_2 \cdot fs \text{ (Nm)}$$

M₂ Output torque
M_{2n} Rated output trque
P₁ Input power
η Transmission efficiency
fs Service factor

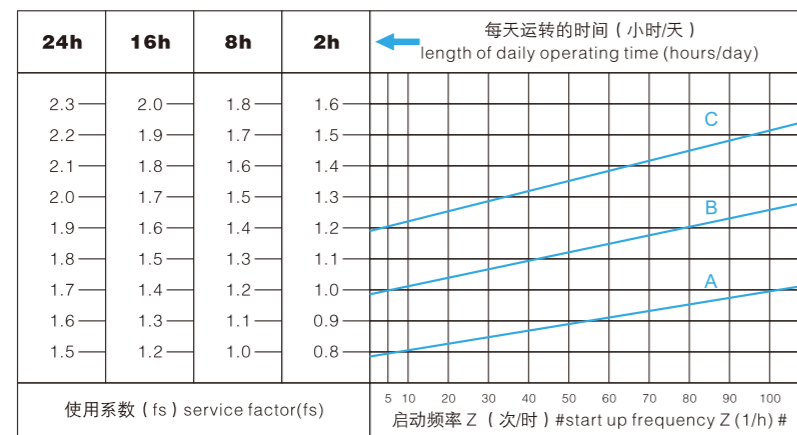
选型相关参数 / RELEVANT PARAMETER

使用系数 fs

减速机上的从动机构的受驱动效果是使用系数fs 这个系数来衡量的。该使用系数根据每天的运转时间和启动频率Z而定的。三种负载分类取决于惯性加速系数，在下图中可读取实际应用的使用系数，按此图表选取的使用系数必须小于或者等于性能参数表中提供的使用系数。

SERVICE FACTOR FS

The effect of the driven machine on the gear unit is taken into account to a sufficient level of accuracy using the service factor fs.The service factor is determined according to the daily operating time and the starting frequency Z. Three load classifications are considered depending on the mass acceleration factor.You can read off the service factor applicable to your application in following figure.The service factor selected using this diagram must be less than or equal to the service factor as given in the performance parameter table.



启动频率Z: 周期包括所有启动, 制动的次数以及变速电机高低速变化时的次数。
 Starting frequency Z: The cycles include all starting and braking procedures as well as change overs from low to high speed.

负载类型

- 负载性质:
 A 均匀冲击负载, 允许惯性加速系数Fa≤0.3
 B 中等冲击负载, 允许惯性加速系数Fa≤3
 C 重冲击负载, 允许惯性加速系数Fa≤10

LOAD CLASSIFICATIONS

- Type of load:
 A Uniform,permitted mass acceleration factor Fa≤0.3
 B Moderate shock load,permitted mass acceleration factor Fa≤3
 C Heavy shock load,permitted mass acceleration factor Fa≤10

负载类型:

轻负载的螺杆输送, 风扇, 装备线, 输送带, 小型搅拌机, 电梯, 清洗机器, 过滤器, 控制驱动。
 卷扬机, 木工机器进料器, 货物起重器, 平衡器, 绞螺纹机器, 中型搅拌机, 重型输送带, 绞盘, 滑动闸门, 刮料机, 包装机械, 混凝土搅拌机, 行车驱动装置, 铣床, 齿轮泵。
 大型搅拌机, 剪床, 压机, 离心机, 旋转支撑装置, 重型绞盘和起重器, 磨床, 石材打磨机, 翻斗机, 钻床, 冲床, 凸轴压机, 擀床, 机床转盘, 翻桶装置, 振荡装置, 破碎机。

Load Classifications:
 Screw feeders for light materials,fans,assembly lines,conveyor belts for light materials,small mixers,lifts,cleaning machines, medium mixers,conveyor belts for heavy materials,winches,sliding doors,fertilizer scrapers,packing machines,concrete mixers, crane mechanisms,milling cutters,folding machines,gear pumps.
 Mixers for heavy materials,shears,presses centrifuges,rotating supports,winches and lifts for heavy materials,grinding lathes, stone mills,bucket elevators,drilling machines,hammer mills,campresses,folding machines,turntables,tumbling barrels, vibrators,shredders

选型相关参数 / RELEVANT PARAMETER

惯性加速系数

惯性加速系数计算如下:

Fa=Jc/Jm

Fa 惯性加速系数
 Jc 所有外部传动惯量 (kgm²)
 Jm 驱动电机的传动惯量 (kgm²)
 如果惯性加速系数fa > 10, 请与我们技术部联系。

受环境温度影响, 使用系数fs 仍须按以下调整:

- 1.环境温度30~40℃: fs × (1.1~1.2)
- 2.环境温度40~50℃: fs × (1.3~1.4)
- 3.环境温度50~60℃: fs × (1.5~1.6)
- 4.环境温度 > 60℃, 请与我们技术服务人员联系。

为了保持减速机的使用寿命, 从产品样本中所选择的使用系数fs应等于或略高于计算出的使用系数fs。

径向载荷Fr

在决定影响径向载荷时, 安装在轴端上的传动件类型必须考虑在内, 不同类型的传动对应不同的传动附加系数fz,列表如下:

| 传动件 Transmission element | 传动附加系数 fz Transmission element factor fz | 注释 Comments |
|-----------------------------|---|---------------------------------------|
| 齿轮Gears | 1.00 | ≥17齿 teeth |
| | 1.15 | < 17齿 teeth |
| 链轮 Chain sprockets | 1.00 | ≥20齿 teeth |
| | 1.25 | < 20齿 teeth |
| | 1.40 | < 13齿 teeth |
| V带轮Narrow V-belt pulleys | 1.75 | 有预紧力作用 Influence of the tensile force |
| 平带轮 Flat belt pulleys | 2.50 | 有预紧力作用 Influence of the tensile force |
| 齿带轮 Toothed belt pulleys | 2.50 | 有预紧力作用 Influence of the tensile force |

作用在轴上的径向载荷按如下公式计算:

$$Fr = \frac{M \cdot 2000 \cdot fz}{d_o} \quad (N)$$

Fr 作用在轴上的载荷 (N)
 M 作用在轴上的扭矩 (Nm)
 d_o 安装在轴上传动件的平均直径 (mm)
 fz 传动附加系数

The overhung loads exerted on the motor or gear shaft is then calculated as follows.

$$Fr = \frac{M \cdot 2000 \cdot fz}{d_o} \quad (N)$$

Fr Resulting radial load (N)
 M Torque on the shaft (Nm)
 d_o Mean diameter of the mounted transmission element in (mm)
 fz Transmission element factor

MASS ACCELERATION FACTOR

The mass acceleration factor is calculated as follows :

Fa=Jc/Jm

Fa Mass acceleration factor
 Jc All external mass moments of inertia (kgm²)
 Jm Mass moment of inertia on the motor end (kgm²)
 If mass acceleration factors fa > 10, please call our Technical Service.

Service factor fs should be adjusted as followings:

- 1.ambient temperature is 30~40℃: fs × (1.1~1.2)
- 2.ambient temperature is 40~50℃: fs × (1.3~1.4)
- 3.ambient temperature is 50~60℃: fs × (1.5~1.6)
- 4.ambient temperature is > 60℃,please call our Technical Service.

To keep the service-life of gear units,the use factor fs selected from the catalogue must be equal or slightly higher than the calculated use factor fs

RADIAL LOADS FR

When determining the resulting radial loads,the type of transmission elements,mounted on the shaft end must be considered,Varous transmission elements are corresponding with following transmission element factors fz.

选型相关参数 / RELEVANT PARAMETER

当径向负荷不作用在轴中点时，按以下公式计算有效负荷：

$$F \times L \leq \frac{Fr_2 \cdot a}{(b+x)} \text{ (N)}$$

Fr₂ 依据下面表格给出中底脚安装式齿轮减速器的许可径向载荷 (X=L/2) (N)

a,b 齿轮减速器径向换算常量(mm)

X 轴户到实际作用点的距离(mm)

a,b,Fr₂ 的数值在下面表格给出：

The allowed radial load force on the shaft is calculated with the following formula:

$$F \times L \leq \frac{Fr_2 \cdot a}{(b+x)} \text{ (N)}$$

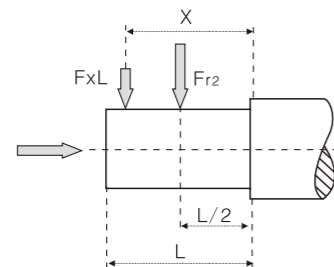
Fr₂ Permitted overhung load(x=L/2)for foot-mounted gear units according to the selection tables in (N)

A,b Gear unit constant for overhung load conversion(mm)

X Distance form the shaft shouldert to the force application point in(mm)

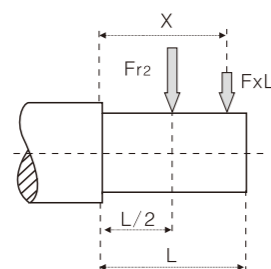
The values of a, b Fr₂ are biven in the following tables:

输出轴径向载荷 / Out put shafts radial loads



| NMRV | 025 | 030 | 040 | 050 | 063 | 075 | 090 | 110 | 130 | 150 |
|---------------------|------|------|------|------|------|------|------|-------|-------|-------|
| a | 50 | 65 | 84 | 101 | 120 | 131 | 162 | 176 | 188 | 215 |
| b | 38 | 50 | 64 | 76 | 95 | 101 | 122 | 136 | 148 | 174 |
| Fr ₂ max | 1350 | 1830 | 3490 | 4840 | 6270 | 7380 | 8180 | 12000 | 13500 | 18000 |

输入轴径向载荷 / Input shafts radial loads



| NMRV | 030 | 040 | 050 | 063 | 075 | 090 | 110 | 130 | 150 |
|---------------------|-----|------|-----|-----|-----|------|------|------|------|
| a | 86 | 106 | 129 | 159 | 192 | 227 | 266 | 314 | 350 |
| b | 76 | 94.5 | 114 | 139 | 167 | 202 | 236 | 274 | 310 |
| Fr ₂ max | 210 | 350 | 490 | 700 | 980 | 1270 | 1700 | 2100 | 2800 |

选型相关参数 / RELEVANT PARAMETER

选型表注释 / SELECTION TABLES COMMENTS

| P _{1n} (kw) | n ₂ (r/min) | i | M _{2n} (Nm) | M _{2n} (Nm) | f _s | | |
|-------------------------|---------------------------|--------------------|-------------------------|-------------------------|--------------------------------|--|--|
| P _{1n} | 输入电机额定功率 (kw) ; | n ₂ | 输出转速(r/min); | P _{1n} | Rated power driving motor (kw) | | |
| n ₂ | 输出转速(r/min); | M _{2n} | 额定输出扭矩(Nm); | n ₂ | Output speed (r/min) | | |
| M _{2n} | 额定输出扭矩(Nm); | M _{2 max} | 最大允许输出扭矩 (Nm) ; | M _{2n} | Rated output torque(Nm) | | |
| M _{2 max} | 最大允许输出扭矩 (Nm) ; | i | 减速机速比; | M _{2 max} | Permissible output torque(Nm) | | |
| i | 减速机速比; | f _s | 使用系数; | i | Gear unit ratio | | |
| f _s | 使用系数; | | 减速机型号; | f _s | Service factor | | |
| | 减速机型号; | | 电机型号; | | Gear unit type | | |
| | 电机型号; | | | | Motor type | | |

选型举例 / SELECTION EXAMPLE

减速电机

例：被驱动设备所需功率0.5KW, n₁ = 1400r/min, 均匀冲击负载，启动频率20次/小时，24小时连续运行，环境温度32℃，输出转速n₂ = 93.3r/min, 减速电机要求B3安装方位，则：

$$i = \frac{n_1}{n_2} = \frac{1400}{93.3} = 15$$

查P15页啮合参数表，估算当i=15时，η_d = 0.82
查图调整使用系数得f_s = 1.53 × 1.12 = 1.714

$$P_{1n} \geq P_2 / \eta_d \cdot f_s = 0.5 / 0.82 \times 1.714 = 1.045(\text{kw})$$

查NMRV系列性能参数表可确定减速电机型号为：

NMRV075-15-B3-1.1-4

输出扭矩M₂计算：

$$M_2 = \frac{9550 \cdot P_2}{n_2} = \frac{9550 \cdot 0.5}{93.3} = 51.18(\text{Nm})$$

$$M_{2n} = 95 \geq M_2 \cdot f_s = 51.18 \times 1.714 = 87.72(\text{Nm})$$

GEAR MOTOR

Example:The input power of driver machine is 0.5kw, n₁ = 1400r/min, uniform, start up frequency 20(1/h),continuous running for 24 hous, the ambient temperature is 32℃,n₂ = 93.3r/min,B3 mounted so:

$$i = \frac{n_1}{n_2} = \frac{1400}{93.3} = 15$$

Check mash table on P19,estimate when the i=15, η_d = 0.82
Check and adjust the service factor,will get f_s = 1.53 × 1.12 = 1.714

$$P_{1n} \geq P_2 / \eta_d \cdot f_s = 0.5 / 0.82 \times 1.714 = 1.045(\text{kw})$$

Choose type:

NMRV075-15-B3-1.1-4

$$M_2 = \frac{9550 \cdot P_2}{n_2} = \frac{9550 \cdot 0.5}{93.3} = 51.18(\text{Nm})$$

$$M_{2n} = 95 \geq M_2 \cdot f_s = 51.18 \times 1.714 = 87.72(\text{Nm})$$

减速机

例：被驱动设备所需扭矩为300Nm, 工作8小时连续运行，均匀冲击负载，启动频率5次/小时，环境温度30℃，即可选用系数f_s = 1.2 × 1.1 = 1.32，减速机输入转速n₁ = 900r/min,输出转速n₂ = 22.5 r/min.

$$M_{2n} \geq M_2 \cdot f_s = 300 \times 1.32 = 396(\text{Nm})$$

$$i = \frac{n_1}{n_2} = \frac{900}{22.5} = 40$$

查NMRV系列性能参数表可确定减速机型号为：
NMRV 090-40

GEAR UNITS

Example:Required torque 300um on driven machine, continuous running for 8 hours,uniform loda,the ambient temperature is 30 ℃, then choose the service factor f_s = 1.2 × 1.1 = 1.32,n₁ = 900r/min, n₂ = 22.5r/min.

$$M_{2n} \geq M_2 \cdot f_s = 300 \times 1.32 = 396(\text{Nm})$$

$$i = \frac{n_1}{n_2} = \frac{900}{22.5} = 40$$

Choose type:
NMRV 090-40

选型相关参数 / RELEVANT PARAMETER

效率与自锁特性 / EFFICIENCY & IRREVERSIBILITY CHARACTER

效率是减速机一个重要参数，效率 η 的值取决于下列参数1.蜗轮蜗杆的螺旋角；2.输入转速；3.蜗轮蜗杆的磨合时间；4.油品、油封和轴承的性能。在第21页上的啮合参数表列出了动态效率 ($\eta_1 = 1400$) 及静态效率参数。请注意：这些参数是指减速机磨合后性能稳定的计算值。另外，样本中规定的扭矩 M_{2n} 也是减速机磨合性能稳定的计算值。上述的实际值可能会有上下偏差。

Efficiency is an important parameter of reducer, Efficiency η depends on the following parameters: 1. helix angle of gearing; 2. driving speed; 3. running-in of gearing; 4. The performance of oil, oil seal and bearing. The mesh data table on page 21 shows dynamic efficiency ($\eta_1 = 1400$) and static efficiency values. Remember that these values are only achieved after the unit has been run in. Torque values M_{2n} indicated in the catalogue are calculated by considering the steady-state performance of the gearboxes. The actual values mentioned above may have deflection.

动态自锁

动态自锁是指当马达输入轴突然停止时，输出轴能同步停止。此条件要求动态效率 $\eta_d < 0.5$ (参见第21页表格)

DYNAMIC IRREVERSIBILITY

Dynamic irreversibility is achieved when the output shaft stops instantly when drive is no longer transmitted through the worm shaft. This condition requires a dynamic efficiency of $\eta_d < 0.5$ (see table on page 21).

静态自锁

静态自锁是指当减速器处于静止状态时，输出轴上的负载不能把蜗轮推动。此条件要求静态效率 $\eta_s < 0.5$ (参见第21页表格)

STATIC IRREVERSIBILITY

Static irreversibility is achieved when the gear reducer at a standstill, the application of a load to the output shaft can't drive the worm shaft. This condition requires a static efficiency of $\eta_s < 0.5$ (see table on page 21)

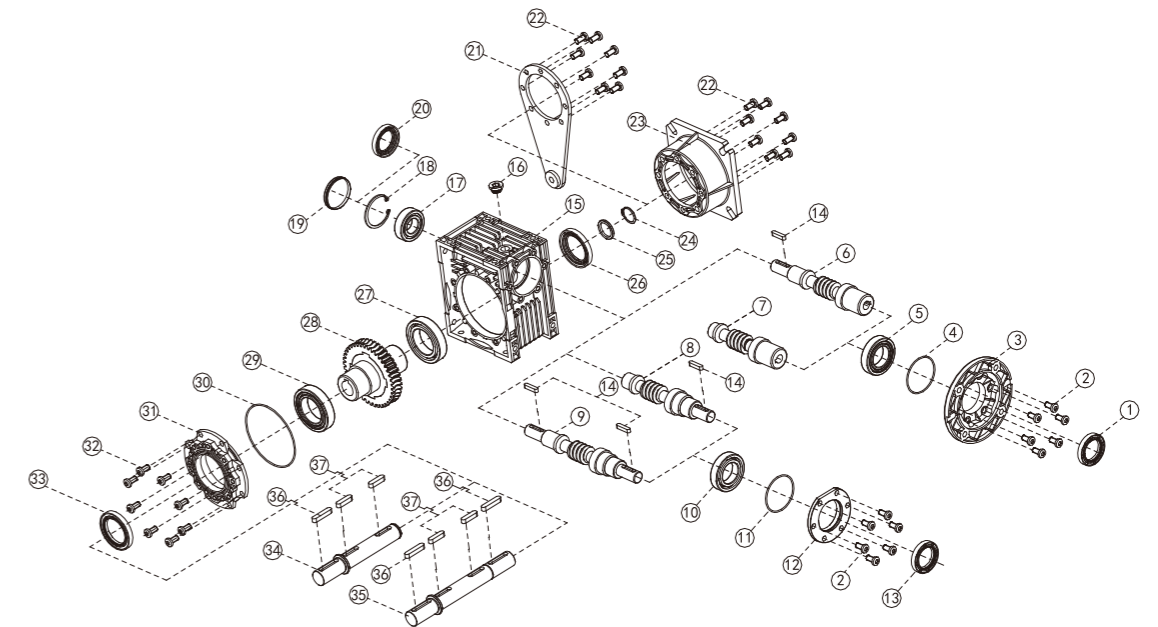
| η_d | > 0.6 | 0.5~0.6 | 0.4~0.5 | < 0.4 |
|-------------------------|-----------------------|---------------------------|------------------------------|-------------------------|
| 动态自锁效果 | 动态不自锁 | 动态自锁很低 | 动态自锁良好 | 动态自锁 |
| Dynamic irreversibility | Dynamic reversibility | Low dynamic reversibility | Good dynamic irreversibility | Dynamic irreversibility |

| η_s | > 0.55 | 0.5~0.55 | < 0.5 |
|------------------------|----------------------|--------------------------|------------------------|
| 静态自锁效果 | 静态不自锁 | 静态自锁很低 | 静态自锁 |
| Static irreversibility | Static reversibility | Low static reversibility | Static irreversibility |

上述表格中所有参数只是供大概参考，振动和冲击也会影响减速机的自锁功能。事实上要保证完全自锁是不可能的，我们建议需要时安装外部的安全制动的装置。对于一个组合减速机自锁条件时，必须考虑单减速机的自锁功能效率，因为整体自锁功能是： $\eta_{tot} = \eta_1 \times \eta_2$ 。

The table shows approximate irreversibility classes. Vibrations and shocks can affect a gear reducer's irreversibility. As it is virtually impossible to provide and guarantee total non reversing, we recommend the use of an external brake with sufficient capability to prevent vibrations in duced starting, where these circumstances are required. For the irreversibility conditions of a combined geared unit one must consider that the efficiency of the group is given by the product of the efficiencies of each single reducer: $\eta_{tot} = \eta_1 \times \eta_2$.

NMRV结构分解图 / NMRV STRUCTURE DIAGRAM



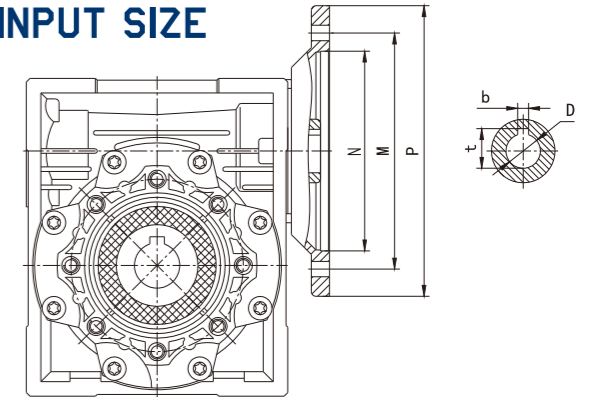
| | | | |
|--------------------------------|---------------------|---------------------------------|---------------------------------|
| 1 油封 | 11 O型橡胶密封圈 | 21 扭力臂 | 31 输出端盖 |
| 2 内六角圆柱头螺栓 | 12 轴承座 | 22 内六角圆柱头螺栓 | 32 内六角圆柱头螺栓 |
| 3 电机法兰 | 13 油封 | 23 输出法兰 | 33 油封 |
| 4 O型橡胶密封圈 | 14 平键 | 24 轴用弹性挡圈 | 34 单向输出轴 |
| 5 轴承 | 15 箱体 | 25 挡圈 | 35 双向输出轴 |
| 6 孔输入轴输入蜗杆 | 16 油塞 | 26 油封 | 36 平键 |
| 7 孔输入蜗杆 | 17 轴承 | 27 轴承 | 37 平键 |
| 8 轴输入蜗杆 | 18 孔用弹性挡圈 | 28 蜗轮 | |
| 9 双轴输入蜗杆 | 19 平面油封 | 29 轴承 | |
| 10 轴承 | 20 油封 | 30 O型橡胶密封圈 | |
| 1 Oil seal | 11 O-ring | 21 Torque arm | 31 Bearing support cover |
| 2 Hexgon socket head cap screw | 12 Bearing block | 22 Hexgon socket head cap screw | 32 Hexgon socket head cap screw |
| 3 Flange PAM | 13 Oil seal | 23 Output flange | 33 Oil seal |
| 4 O-ring | 14 Parallel key | 24 Circlip for shaft | 34 Single output shaft |
| 5 Bearing | 15 Cablint | 25 Washer | 35 Double output shaft |
| 6 Double ext. RV Worm | 16 Plug cock | 26 Oil seal | 36 Parallel key |
| 7 PAM worm | 17 Bearing | 27 Bearing | 37 Parallel key |
| 8 RV worm | 18 Circlip for hole | 28 Worm wheel | |
| 9 Double ext. RV worm | 19 Oil seal | 29 Bearing | |
| 10 Bearing | 20 Oil seal | 30 O-ring | |

减速机啮合参数 / MESH DATA

| NRV | i | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 |
|-----|-----------------------|---------|---------|---------|---------|---------|---------|--------|--------|---------|--------|--------|--------|
| 025 | Z1 | 6 | 4 | 3 | 2 | 2 | — | 1 | 1 | 1 | 1 | — | — |
| | γ | 30° 58' | 21° 48' | 16° 42' | 11° 19' | 10° 53' | — | 5° 43' | 5° 29' | 4° 34' | 3° 23' | — | — |
| | m | 1.25 | 1.25 | 1.25 | 1.25 | 1 | — | 1.25 | 1 | 0.8 | 0.65 | — | — |
| | η _d (1400) | 0.87 | 0.85 | 0.83 | 0.79 | 0.75 | — | 0.67 | 0.62 | 0.58 | 0.55 | — | — |
| | η _s | 0.72 | 0.71 | 0.68 | 0.61 | 0.56 | — | 0.46 | 0.41 | 0.36 | 0.34 | — | — |
| 030 | Z1 | 6 | 4 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | — |
| | γ | 29° 03' | 20° 19' | 15° 31' | 10° 29' | 5° 42' | 6° 10' | 5° 17' | 2° 52' | 3° 26' | 2° 52' | 1° 58' | — |
| | m | 1.5 | 1.5 | 1.5 | 1.5 | 1 | 1.75 | 1.5 | 1 | 0.9 | 0.75 | 0.55 | — |
| | η _d (1400) | 0.87 | 0.85 | 0.82 | 0.77 | 0.73 | 0.68 | 0.65 | 0.59 | 0.55 | 0.51 | 0.44 | — |
| | η _s | 0.72 | 0.67 | 0.63 | 0.55 | 0.5 | 0.43 | 0.39 | 0.35 | 0.31 | 0.27 | 0.23 | — |
| 040 | Z1 | 6 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | γ | 30° 58' | 21° 48' | 16° 42' | 11° 19' | 11° 19' | 8° 08' | 5° 43' | 5° 43' | 4° 0.5' | 2° 52' | 2° 52' | 2° 29' |
| | m | 2 | 2 | 2 | 2 | 1.6 | 1.25 | 2 | 1.6 | 1.25 | 1 | 0.8 | 0.65 |
| | η _d (1400) | 0.89 | 0.87 | 0.85 | 0.82 | 0.78 | 0.75 | 0.7 | 0.65 | 0.62 | 0.58 | 0.52 | 0.47 |
| | η _s | 0.74 | 0.71 | 0.67 | 0.6 | 0.55 | 0.51 | 0.45 | 0.4 | 0.36 | 0.32 | 0.28 | 0.24 |
| 050 | Z1 | 4 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | γ | 23° 49' | 21° 48' | 16° 42' | 11° 19' | 11° 19' | 9° 05' | 5° 43' | 5° 43' | 4° 21' | 2° 52' | 2° 52' | 2° 17' |
| | m | 3.4 | 2.5 | 2.5 | 2.5 | 2 | 1.6 | 2.5 | 2 | 1.6 | 1.25 | 1 | 0.8 |
| | η _d (1400) | 0.89 | 0.88 | 0.86 | 0.82 | 0.79 | 0.76 | 0.72 | 0.67 | 0.63 | 0.59 | 0.53 | 0.49 |
| | η _s | 0.74 | 0.7 | 0.66 | 0.59 | 0.55 | 0.51 | 0.44 | 0.39 | 0.35 | 0.32 | 0.27 | 0.23 |
| 063 | Z1 | — | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | γ | — | 24° 31' | 18° 53' | 12° 51' | 11° 19' | 8° 45' | 6° 30' | 5° 43' | 4° 24' | 3° 03' | 2° 52' | 2° 12' |
| | m | — | 3.25 | 3.25 | 3.25 | 2.5 | 2 | 3.25 | 2.5 | 2 | 1.6 | 1.25 | 1 |
| | η _d (1400) | — | 0.88 | 0.87 | 0.83 | 0.81 | 0.78 | 0.74 | 0.7 | 0.66 | 0.62 | 0.57 | 0.51 |
| | η _s | — | 0.71 | 0.67 | 0.6 | 0.55 | 0.51 | 0.45 | 0.4 | 0.36 | 0.33 | 0.28 | 0.24 |
| 075 | Z1 | — | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | γ | — | 28° 4' | 21° 48' | 14° 56' | 11° 19' | 11° 19' | 7° 36' | 5° 43' | 5° 43' | 3° 49' | 4° 21' | 2° 52' |
| | m | — | 4 | 4 | 4 | 3 | 2.5 | 4 | 3 | 2.5 | 2 | 1.6 | 1.25 |
| | η _d (1400) | — | 0.89 | 0.88 | 0.85 | 0.82 | 0.80 | 0.76 | 0.72 | 0.69 | 0.65 | 0.60 | 0.55 |
| | η _s | — | 0.71 | 0.68 | 0.61 | 0.57 | 0.53 | 0.46 | 0.42 | 0.38 | 0.35 | 0.29 | 0.26 |
| 090 | Z1 | — | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | γ | — | 28° 04' | 26° 34' | 18° 26' | 14° 02' | 11° 19' | 9° 28' | 7° 08' | 5° 43' | 4° 46' | 3° 53' | 2° 52' |
| | m | — | 4.8 | 5 | 5 | 3.75 | 3 | 5 | 3.75 | 3 | 2.5 | 1.9 | 1.5 |
| | η _d (1400) | — | 0.9 | 0.89 | 0.86 | 0.84 | 0.82 | 0.78 | 0.75 | 0.72 | 0.69 | 0.63 | 0.59 |
| | η _s | — | 0.73 | 0.7 | 0.64 | 0.6 | 0.56 | 0.49 | 0.45 | 0.41 | 0.38 | 0.32 | 0.28 |
| 110 | Z1 | — | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | γ | — | 28° 46' | 22° 22' | 15° 21' | 14° 20' | 14° 02' | 7° 49' | 7° 17' | 7° 08' | 5° 48' | 4° 54' | 3° 37' |
| | m | — | 5.9 | 5.9 | 5.9 | 4.6 | 3.75 | 5.9 | 4.6 | 3.75 | 3.15 | 2.4 | 1.9 |
| | η _d (1400) | — | 0.9 | 0.89 | 0.86 | 0.85 | 0.84 | 0.79 | 0.78 | 0.75 | 0.72 | 0.67 | 0.63 |
| | η _s | — | 0.72 | 0.69 | 0.63 | 0.62 | 0.59 | 0.48 | 0.48 | 0.44 | 0.41 | 0.36 | 0.32 |
| 130 | Z1 | — | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | γ | — | 29° 15' | 22° 47' | 15° 39' | 13° 47' | 12° 24' | 7° 58' | 7° 00' | 6° 17' | 6° 07' | 3° 56' | 3° 41' |
| | m | — | 7 | 7 | 7 | 5.4 | 4.4 | 7 | 5.4 | 4.4 | 3.75 | 2.75 | 2.25 |
| | η _d (1400) | — | 0.91 | 0.89 | 0.87 | 0.86 | 0.84 | 0.8 | 0.78 | 0.75 | 0.72 | 0.68 | 0.64 |
| | η _s | — | 0.72 | 0.69 | 0.63 | 0.61 | 0.58 | 0.49 | 0.46 | 0.43 | 0.39 | 0.34 | 0.3 |
| 150 | Z1 | — | 6 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| | γ | — | 29° 37' | 24° 41' | 15° 52' | 12° 56' | 11° 19' | 9° 56' | 6° 34' | 5° 43' | 5° 00' | 3° 45' | 2° 52' |
| | m | — | 5.4 | 6.16 | 5.4 | 6.16 | 5 | 4.2 | 6.16 | 5 | 4.2 | 3.15 | 2.5 |
| | η _d (1400) | — | 0.91 | 0.9 | 0.88 | 0.86 | 0.84 | 0.83 | 0.78 | 0.76 | 0.73 | 0.68 | 0.64 |
| | η _s | — | 0.73 | 0.71 | 0.66 | 0.6 | 0.57 | 0.54 | 0.45 | 0.42 | 0.39 | 0.33 | 0.29 |

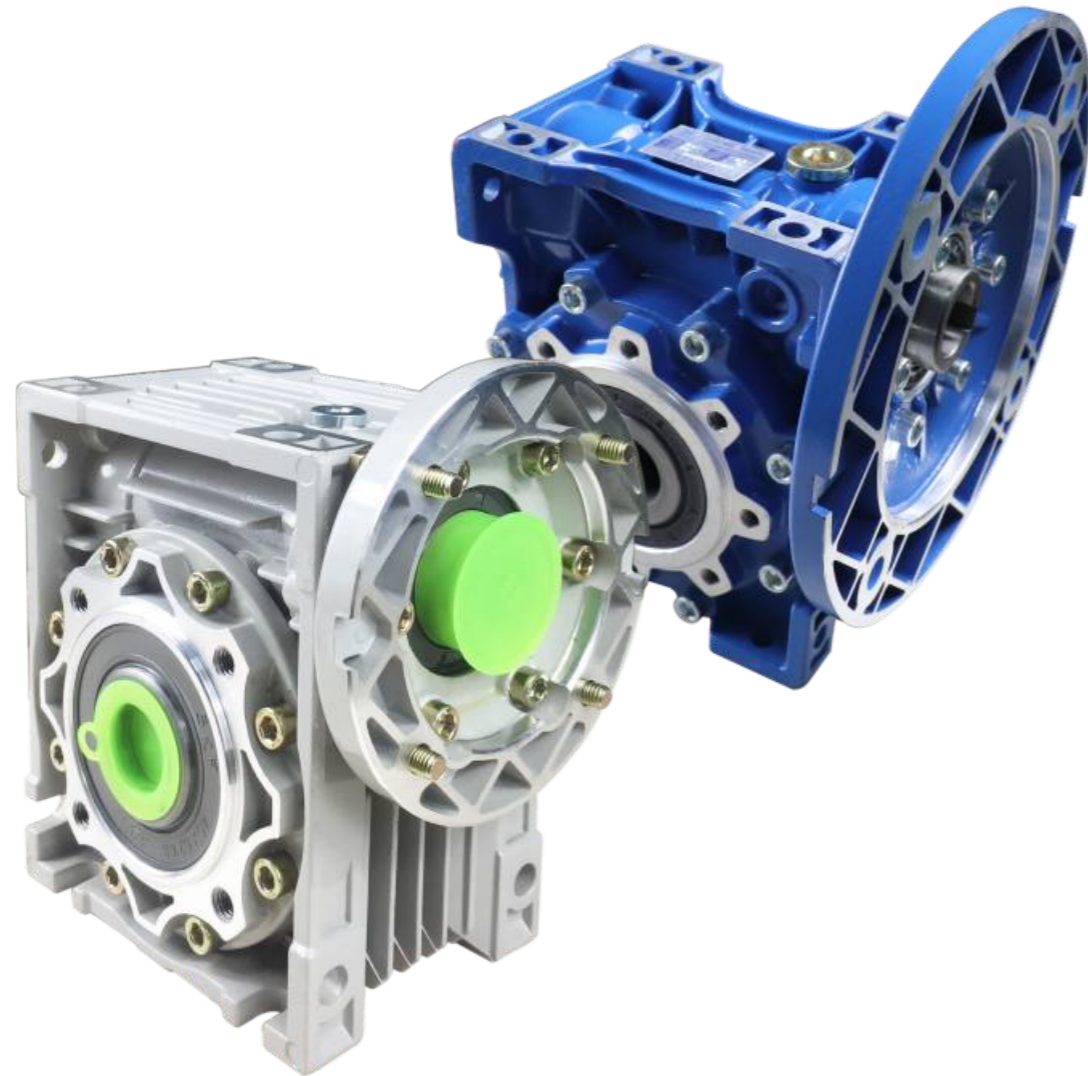
备注: i-速比, Z1-蜗杆头数; γ-导程角, m-模数, η_d动态效率, η_s静态效率。

减速机输入尺寸 / NMRV REDUCER INPUT SIZE

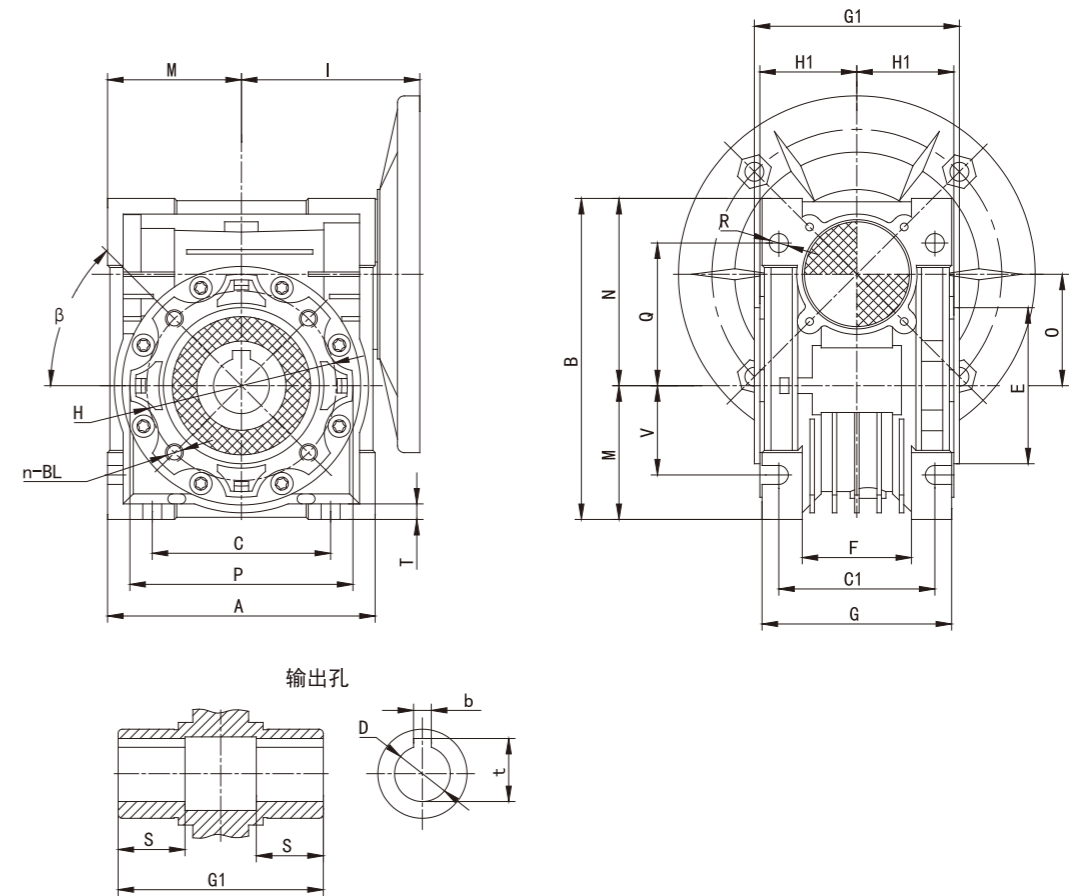


| NMRV | IEC接口 | | | | 键槽 | | 传动比 (i) | | | | | | | | | | | | | |
|------|------------|-----|-----|-----|----|------|---------|-----|----|----|----|----|----|----|----|----|----|-----|--|--|
| | PAM-IEC | N | M | P | b | t | 孔径 (D) | | | | | | | | | | | | | |
| | | | | | | | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 | | |
| 025 | 56B14 | 50 | 65 | 80 | 3 | 10.4 | 9 | 9 | 9 | 9 | 9 | / | 9 | 9 | 9 | 9 | / | / | | |
| | 56B5 | 50 | 65 | 80 | 3 | 10.4 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | / | | |
| 030 | 63B14 | 60 | 75 | 90 | 4 | 12.8 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | / | / | | |
| | 63B5 | 95 | 115 | 140 | 4 | 12.8 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | / | / | | |
| | 56B5 | 80 | 100 | 120 | 3 | 10.4 | / | / | / | / | / | / | / | / | 9 | 9 | 9 | 9 | | |
| 040 | 63B14 | 60 | 75 | 90 | 4 | 12.8 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | | |
| | 63B5 | 95 | 115 | 140 | 4 | 12.8 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | | |
| | 71B14 | 70 | 85 | 105 | 5 | 16.3 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | / | / | | |
| | 71B5 | 110 | 130 | 160 | 5 | 16.3 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | / | / | | |
| 050 | 63B5 | 95 | 115 | 140 | 4 | 12.8 | / | / | / | / | / | / | / | / | 11 | 11 | 11 | 11 | | |
| | 71B14 | 70 | 85 | 105 | 5 | 16.3 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | / | | |
| | 71B5 | 110 | 130 | 160 | 5 | 16.3 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | / | | |
| | 80B14 | 80 | 100 | 120 | 6 | 21.8 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | / | / | | |
| 063 | 80B5 | 130 | 165 | 200 | 6 | 21.8 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | | |
| | 71B14 | 70 | 85 | 105 | 5 | 16.3 | / | / | / | / | / | / | / | / | 14 | 14 | 14 | 14 | | |
| | 71B5 | 110 | 130 | 160 | 5 | 16.3 | / | / | / | / | / | / | / | / | 14 | 14 | 14 | 14 | | |
| | 80B14 | 80 | 100 | 120 | 6 | 21.8 | / | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | | |
| | 80B5 | 130 | 165 | 200 | 6 | 21.8 | / | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | | |
| 075 | 90B14 | 95 | 115 | 140 | 8 | 27.3 | / | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | / | / | | |
| | 90B5 | 130 | 165 | 200 | 8 | 27.3 | / | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | / | / | | |
| | 71B5 | 110 | 130 | 160 | 5 | 16.3 | / | / | / | / | / | / | / | / | 14 | 14 | 14 | 14 | | |
| | 80B14 | 80 | 100 | 120 | 6 | 21.8 | / | / | / | / | / | / | / | / | 19 | 19 | 19 | 19 | | |
| | 80B5 | 130 | 165 | 200 | 6 | 21.8 | / | / | / | / | / | / | / | / | 19 | 19 | 19 | 19 | | |
| 090 | 90B14 | 95 | 115 | 140 | 8 | 27.3 | / | / | / | / | / | / | / | 24 | 24 | 24 | 24 | / | | |
| | 90B5 | 130 | 165 | 200 | 8 | 27.3 | / | / | / | / | / | / | / | 24 | 24 | 24 | 24 | / | | |
| | 100/112B14 | 110 | 130 | 160 | 8 | 31.3 | / | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | / | / | | |
| | 100/112B5 | 180 | 215 | 250 | 8 | 31.3 | / | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | / | / | | |
| | 80B14 | 80 | 100 | 120 | 6 | 21.8 | / | / | / | / | / | / | / | / | 19 | 19 | 19 | 19 | | |
| 110 | 80B5 | 130 | 165 | 200 | 6 | 21.8 | / | / | / | / | / | / | / | 19 | 19 | 19 | 19 | 19 | | |
| | 90B14 | 95 | 115 | 140 | 8 | 27.3 | / | / | / | / | / | / | / | 24 | 24 | 24 | 24 | / | | |
| | 90B5 | 130 | 165 | 200 | 8 | 27.3 | / | / | / | / | / | / | / | 24 | 24 | 24 | 24 | / | | |
| | 100/112B14 | 110 | 130 | 160 | 8 | 31.3 | / | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | / | / | | |
| | 100/112B5 | 180 | 215 | 250 | 8 | 31.3 | /</ | | | | | | | | | | | | | |

RV产品介绍 / RV PRODUCT INTRODUCTION



RV尺寸 / RV SIZE

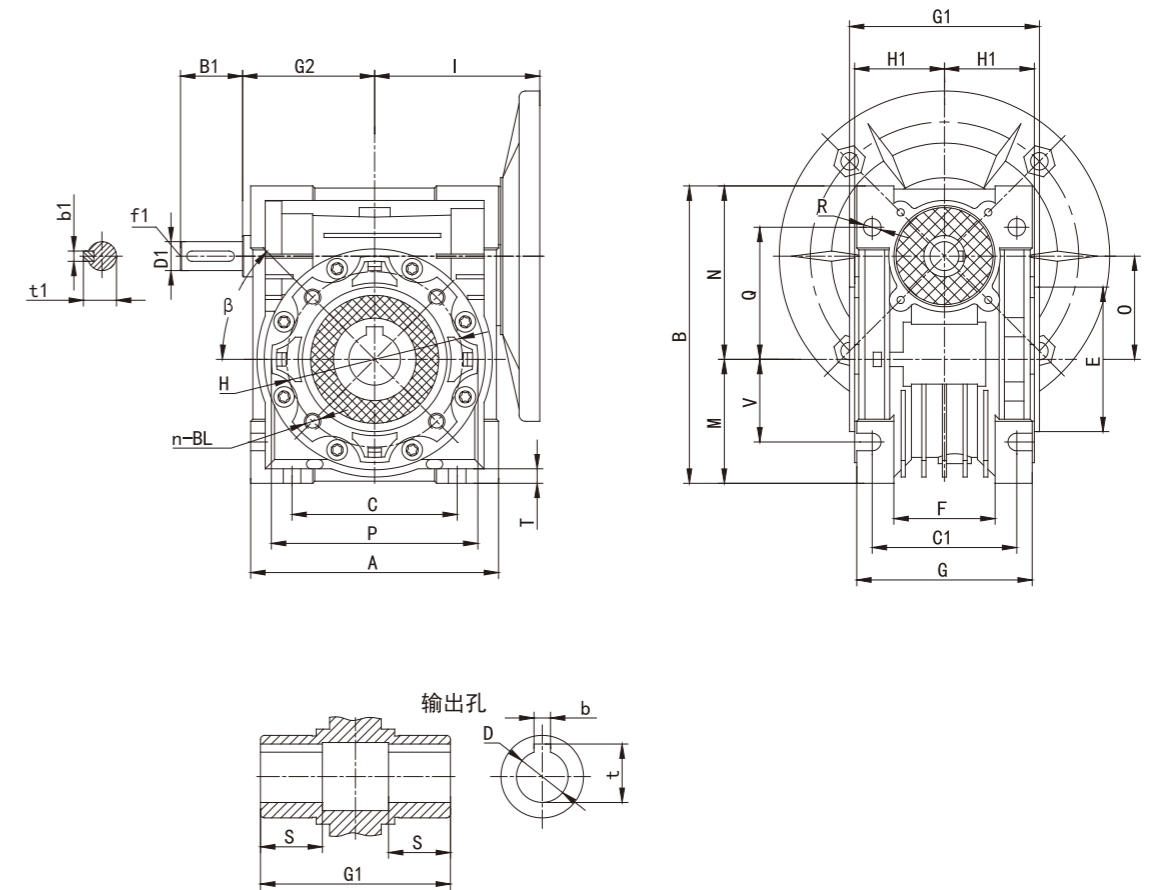


| RV | A | B | C | C1 | D (F8) | E (h8) | F | G | G1 | H | H1 | I | M | N | O | P | Q | R | S | T | BL | β | b | t | V |
|-----|-----|-------|-----|-----|---------|--------|----|-----|-----|-----|------|-------|-------|-------|-----|-----|-----|-----|------|-----|--------------|-----|--------|-------------|-----|
| 030 | 80 | 97 | 54 | 44 | 14 | 55 | 32 | 56 | 63 | 65 | 29 | 55 | 40 | 57 | 30 | 75 | 44 | 6.5 | 21 | 5.5 | M6X10 (n=4) | 0° | 5 | 16.3 | 27 |
| 040 | 100 | 121.5 | 70 | 60 | 18 (19) | 60 | 43 | 71 | 78 | 75 | 36.5 | 70 | 50 | 71.5 | 40 | 87 | 55 | 6.5 | 26 | 6.5 | M6X10 (n=4) | 45° | 6 | 20.8 (21.8) | 35 |
| 050 | 120 | 144 | 80 | 70 | 25 (24) | 70 | 49 | 85 | 92 | 85 | 43.5 | 80 | 60 | 84 | 50 | 100 | 64 | 8.5 | 30 | 7 | M8X12 (n=4) | 45° | 8 | 28.3 (27.3) | 40 |
| 063 | 144 | 174 | 100 | 85 | 25 (28) | 80 | 67 | 103 | 112 | 95 | 53 | 95 | 72 | 102 | 63 | 110 | 80 | 8.5 | 36 | 8 | M8X12 (n=8) | 45° | 8 | 28.3 (31.3) | 50 |
| 075 | 172 | 205 | 120 | 90 | 28 (35) | 95 | 72 | 112 | 120 | 115 | 57 | 112.5 | 86 | 119 | 75 | 140 | 93 | 11 | 40 | 10 | M8X14 (n=8) | 45° | 8 (10) | 31.3 (38.3) | 60 |
| 090 | 206 | 238 | 140 | 100 | 35 (38) | 110 | 74 | 130 | 140 | 130 | 67 | 129.5 | 103 | 135 | 90 | 160 | 102 | 13 | 45 | 11 | M10X16 (n=8) | 45° | 10 | 38.3 (41.3) | 70 |
| 110 | 255 | 295 | 170 | 115 | 42 | 130 | - | 144 | 155 | 165 | 74 | 160 | 127.5 | 167.5 | 110 | 200 | 125 | 14 | 50 | 14 | M10X18 (n=8) | 45° | 12 | 45.3 | 85 |
| 130 | 293 | 335 | 200 | 120 | 45 | 180 | - | 155 | 170 | 215 | 81 | 179 | 146.5 | 188.5 | 130 | 250 | 140 | 16 | 60 | 15 | M12X20 (n=8) | 45° | 14 | 48.8 | 100 |
| 150 | 340 | 400 | 240 | 145 | 50 | 180 | - | 185 | 200 | 215 | 96 | 210 | 170 | 230 | 150 | 250 | 180 | 18 | 72.5 | 18 | M12X22 (n=8) | 45° | 14 | 53.8 | 120 |

RV-E产品介绍 / RV-E PRODUCT INTRODUCTION



RV-E尺寸 / RV-E SIZE

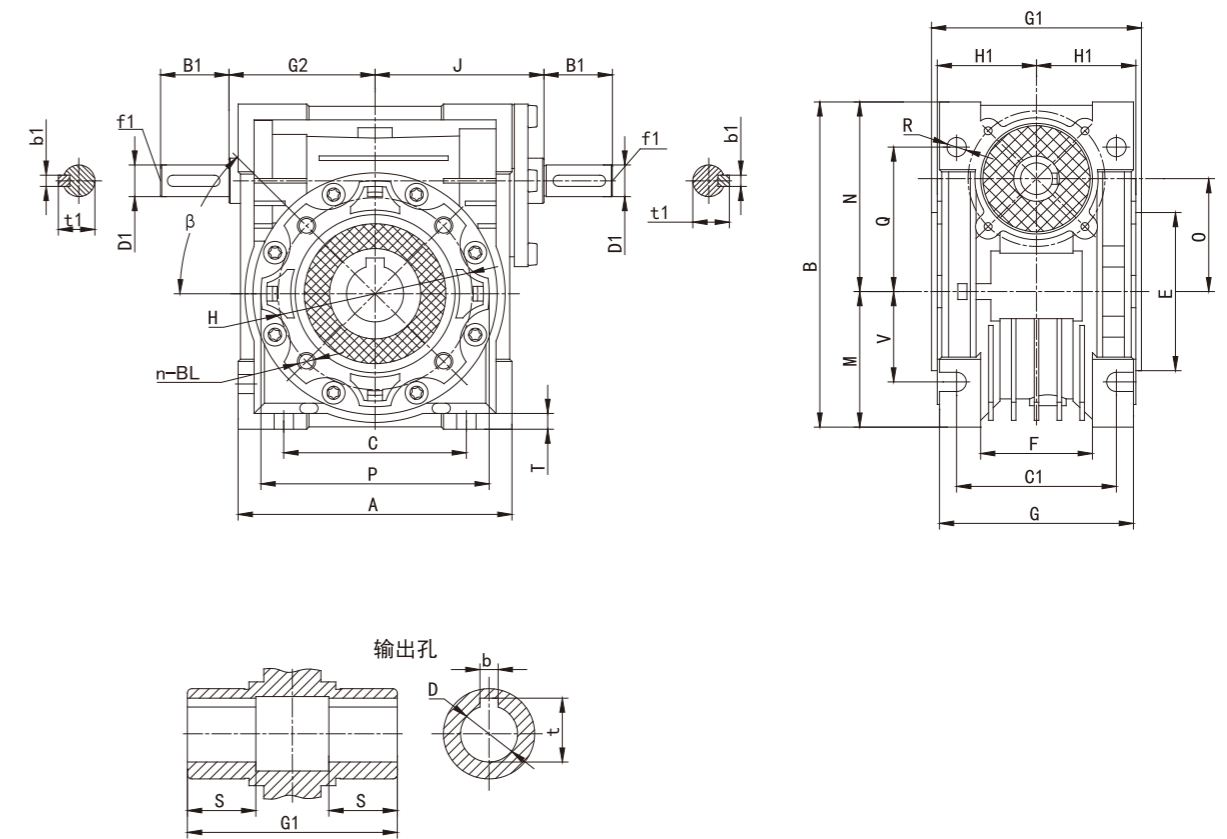


| RV-E | A | B | B1 | C | C1 | D (F8) | D1 (h6) | E (h8) | F | G | G1 | G2 | H | H1 | I | M | N | O | P | Q | R | S | T | BL | β | b | b1 | t | t1 | f1 | V |
|------|-----|-------|----|-----|-----|---------|---------|--------|----|-----|-----|-----|-----|------|-------|-------|-------|-----|-----|-----|-----|------|-----|--------------|-----|--------|----|-------------|------|-----|-----|
| 030 | 80 | 97 | 20 | 54 | 44 | 14 | 9 | 55 | 32 | 56 | 63 | 45 | 65 | 29 | 55 | 40 | 57 | 30 | 75 | 44 | 6.5 | 21 | 5.5 | M6X10 (n=4) | 0° | 5 | 3 | 16.3 | 10.2 | - | 27 |
| 040 | 100 | 121.5 | 23 | 70 | 60 | 18 (19) | 11 | 60 | 43 | 71 | 78 | 53 | 75 | 36.5 | 70 | 50 | 71.5 | 40 | 87 | 55 | 6.5 | 26 | 6.5 | M6X10 (n=4) | 45° | 6 | 4 | 20.8 (21.8) | 12.5 | - | 35 |
| 050 | 120 | 144 | 30 | 80 | 70 | 25 (24) | 14 | 70 | 49 | 85 | 92 | 64 | 85 | 43.5 | 80 | 60 | 84 | 50 | 100 | 64 | 8.5 | 30 | 7 | M8X12 (n=4) | 45° | 8 | 5 | 28.3 (27.3) | 16 | M6 | 40 |
| 063 | 144 | 174 | 40 | 100 | 85 | 25 (28) | 19 | 80 | 67 | 103 | 112 | 75 | 95 | 53 | 95 | 72 | 102 | 63 | 110 | 80 | 8.5 | 36 | 8 | M8X12 (n=8) | 45° | 8 | 6 | 28.3 (31.3) | 21.5 | M6 | 50 |
| 075 | 172 | 205 | 50 | 120 | 90 | 28 (35) | 24 | 95 | 72 | 112 | 120 | 90 | 115 | 57 | 112.5 | 86 | 119 | 75 | 140 | 93 | 11 | 40 | 10 | M8X14 (n=8) | 45° | 8 (10) | 8 | 31.3 (38.3) | 27 | M8 | 60 |
| 090 | 206 | 238 | 50 | 140 | 100 | 35 (38) | 24 | 110 | 74 | 130 | 140 | 108 | 130 | 67 | 129.5 | 103 | 135 | 90 | 160 | 102 | 13 | 45 | 11 | M10X16 (n=8) | 45° | 10 | 8 | 38.3 (41.3) | 27 | M8 | 70 |
| 110 | 255 | 295 | 60 | 170 | 115 | 42 | 28 | 130 | - | 144 | 155 | 135 | 165 | 74 | 160 | 127.5 | 167.5 | 110 | 200 | 125 | 14 | 50 | 14 | M10X18 (n=8) | 45° | 12 | 8 | 45.3 | 31 | M10 | 85 |
| 130 | 293 | 335 | 80 | 200 | 120 | 45 | 30 | 180 | - | 155 | 170 | 155 | 215 | 81 | 179 | 146.5 | 188.5 | 130 | 250 | 140 | 16 | 60 | 15 | M12X20 (n=8) | 45° | 14 | 8 | 48.8 | 33 | M10 | 100 |
| 150 | 340 | 400 | 80 | 240 | 145 | 50 | 35 | 180 | - | 185 | 200 | 175 | 215 | 96 | 210 | 170 | 230 | 150 | 250 | 180 | 18 | 72.5 | 18 | M12X22 (n=8) | 45° | 14 | 10 | 53.8 | 38 | M12 | 120 |

NRV-E产品介绍 / NRV-EPRODUCT INTRODUCTION



NRV-E尺寸 / NRV-E SIZE

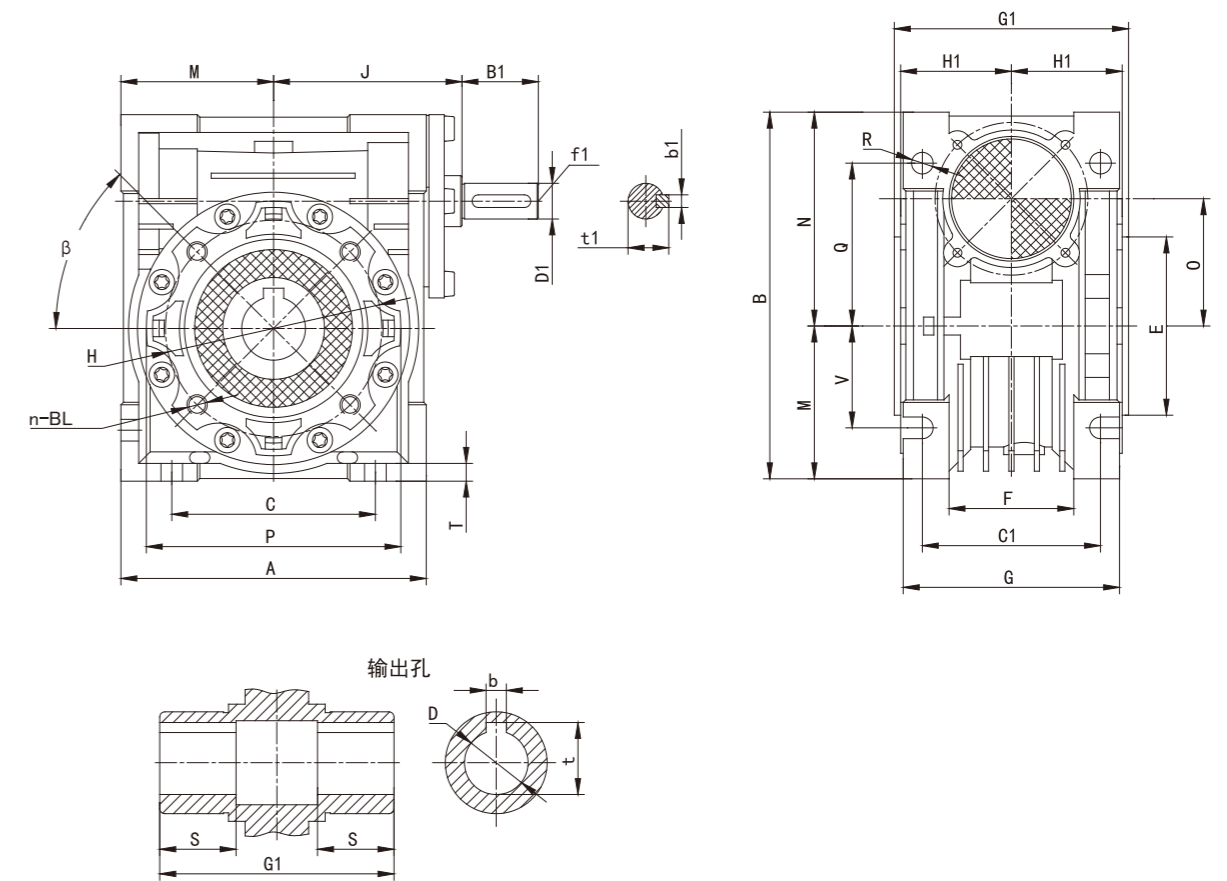


| NRV-E | A | B | B1 | C | C1 | D (F8) | D1 (h6) | E (h8) | F | G | G1 | G2 | H | H1 | J | M | N | O | P | Q | R | S | T | BL | β | b | b1 | t | t1 | f1 | V |
|-------|-----|-------|----|-----|-----|---------|---------|--------|----|-----|-----|-----|-----|------|-----|-------|-------|-----|-----|-----|-----|------|-----|--------------|-----|--------|----|-------------|------|-----|-----|
| 030 | 80 | 97 | 20 | 54 | 44 | 14 | 9 | 55 | 32 | 56 | 63 | 45 | 65 | 29 | 51 | 40 | 57 | 30 | 75 | 44 | 6.5 | 21 | 5.5 | M6X10 (n=4) | 0° | 5 | 3 | 16.3 | 10.2 | - | 27 |
| 040 | 100 | 121.5 | 23 | 70 | 60 | 18 (19) | 11 | 60 | 43 | 71 | 78 | 53 | 75 | 36.5 | 60 | 50 | 71.5 | 40 | 87 | 55 | 6.5 | 26 | 6.5 | M6X10 (n=4) | 45° | 6 | 4 | 20.8 (21.8) | 12.5 | - | 35 |
| 050 | 120 | 144 | 30 | 80 | 70 | 25 (24) | 14 | 70 | 49 | 85 | 92 | 64 | 85 | 43.5 | 74 | 60 | 84 | 50 | 100 | 64 | 8.5 | 30 | 7 | M8X12 (n=4) | 45° | 8 | 5 | 28.3 (27.3) | 16 | M6 | 40 |
| 063 | 144 | 174 | 40 | 100 | 85 | 25 (28) | 19 | 80 | 67 | 103 | 112 | 75 | 95 | 53 | 90 | 72 | 102 | 63 | 110 | 80 | 8.5 | 36 | 8 | M8X12 (n=8) | 45° | 8 | 6 | 28.3 (31.3) | 21.5 | M6 | 50 |
| 075 | 172 | 205 | 50 | 120 | 90 | 28 (35) | 24 | 95 | 72 | 112 | 120 | 90 | 115 | 57 | 105 | 86 | 119 | 75 | 140 | 93 | 11 | 40 | 10 | M8X14 (n=8) | 45° | 8 (10) | 8 | 31.3 (38.3) | 27 | M8 | 60 |
| 090 | 206 | 238 | 50 | 140 | 100 | 35 (38) | 24 | 110 | 74 | 130 | 140 | 108 | 130 | 67 | 125 | 103 | 135 | 90 | 160 | 102 | 13 | 45 | 11 | M10X16 (n=8) | 45° | 10 | 8 | 38.3 (41.3) | 27 | M8 | 70 |
| 110 | 255 | 295 | 60 | 170 | 115 | 42 | 28 | 130 | - | 144 | 155 | 135 | 165 | 74 | 142 | 127.5 | 167.5 | 110 | 200 | 125 | 14 | 50 | 14 | M10X18 (n=8) | 45° | 12 | 8 | 45.3 | 31 | M10 | 85 |
| 130 | 293 | 335 | 80 | 200 | 120 | 45 | 30 | 180 | - | 155 | 170 | 155 | 215 | 81 | 162 | 146.5 | 188.5 | 130 | 250 | 140 | 16 | 60 | 15 | M12X20 (n=8) | 45° | 14 | 8 | 48.8 | 33 | M10 | 100 |
| 150 | 340 | 400 | 80 | 240 | 145 | 50 | 35 | 180 | - | 185 | 200 | 175 | 215 | 96 | 195 | 170 | 230 | 150 | 250 | 180 | 18 | 72.5 | 18 | M12X22 (n=8) | 45° | 14 | 10 | 53.8 | 38 | M12 | 120 |

NRV产品介绍 / NRV PRODUCT INTRODUCTION

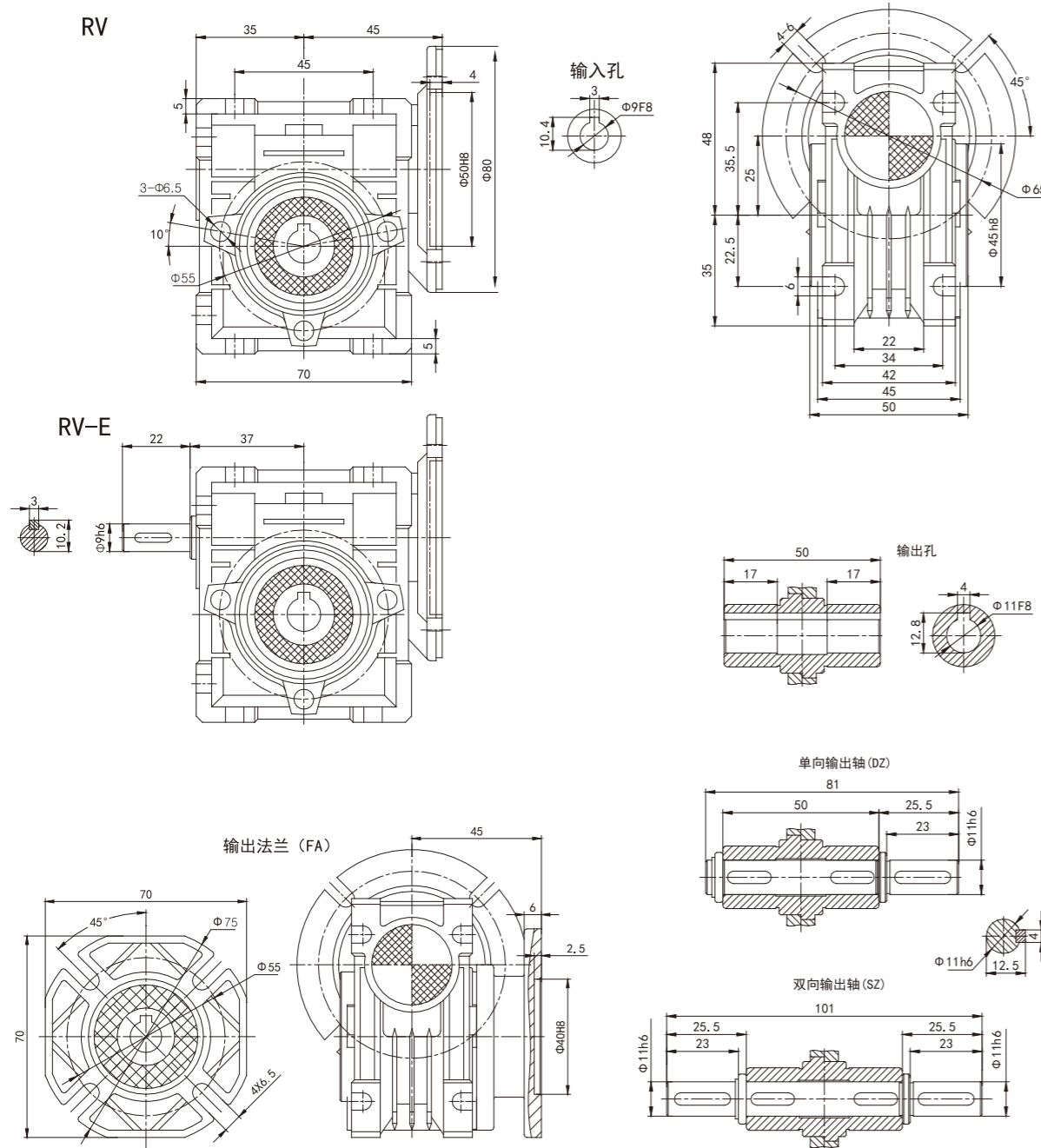


NRV尺寸 / NRV SIZE



| NRV | A | B | B1 | C | C1 | D (F8) | D1 (h6) | E (h8) | F | G | G1 | H | H1 | J | M | N | O | P | Q | R | S | T | BL | β | b | b1 | t | t1 | f1 | V |
|-----|-----|-------|----|-----|-----|---------|---------|--------|----|-----|-----|-----|------|-----|-------|-------|-----|-----|-----|-----|------|-----|--------------|---------|--------|----|-------------|------|-----|-----|
| 030 | 80 | 97 | 20 | 54 | 44 | 14 | 9 | 55 | 32 | 56 | 63 | 65 | 29 | 51 | 40 | 57 | 30 | 75 | 44 | 6.5 | 21 | 5.5 | M6X10 (n=4) | 0° | 5 | 3 | 16.3 | 10.2 | - | 27 |
| 040 | 100 | 121.5 | 23 | 70 | 60 | 18 (19) | 11 | 60 | 43 | 71 | 78 | 75 | 36.5 | 60 | 50 | 71.5 | 40 | 87 | 55 | 6.5 | 26 | 6.5 | M6X10 (n=4) | 45° | 6 | 4 | 20.8 (21.8) | 12.5 | - | 35 |
| 050 | 120 | 144 | 30 | 80 | 70 | 25 (24) | 14 | 70 | 49 | 85 | 92 | 85 | 43.5 | 74 | 60 | 84 | 50 | 100 | 64 | 8.5 | 30 | 7 | MBX12 (n=4) | 45° | 8 | 5 | 28.3 (27.3) | 16 | M6 | 40 |
| 063 | 144 | 174 | 40 | 100 | 85 | 25 (28) | 19 | 80 | 67 | 103 | 112 | 95 | 53 | 90 | 72 | 102 | 63 | 110 | 80 | 8.5 | 36 | 8 | MBX12 (n=8) | 45° | 8 | 6 | 28.3 (31.3) | 21.5 | M6 | 50 |
| 075 | 172 | 205 | 50 | 120 | 90 | 28 (35) | 24 | 95 | 72 | 112 | 120 | 115 | 57 | 105 | 86 | 119 | 75 | 140 | 93 | 11 | 40 | 10 | MBX14 (n=8) | 45° | 8 (10) | 8 | 31.3 (38.3) | 27 | M8 | 60 |
| 090 | 206 | 238 | 50 | 140 | 100 | 35 (38) | 24 | 110 | 74 | 130 | 140 | 130 | 67 | 125 | 103 | 135 | 90 | 160 | 102 | 13 | 45 | 11 | M10X16 (n=8) | 45° | 10 | 8 | 38.3 (41.3) | 27 | M8 | 70 |
| 110 | 255 | 295 | 60 | 170 | 115 | 42 | 28 | 130 | - | 144 | 155 | 165 | 74 | 142 | 127.5 | 167.5 | 110 | 200 | 125 | 14 | 50 | 14 | M10X18 (n=8) | 45° | 12 | 8 | 45.3 | 31 | M10 | 85 |
| 130 | 293 | 335 | 80 | 200 | 120 | 45 | 30 | 180 | - | 155 | 170 | 215 | 81 | 162 | 146.5 | 188.5 | 130 | 250 | 140 | 16 | 60 | 15 | M12X20 (n=8) | 45° | 14 | 8 | 48.8 | 33 | M10 | 100 |
| 150 | 340 | 400 | 80 | 240 | 145 | 50 | 35 | 180 | - | 185 | 200 | 215 | 96 | 195 | 170 | 230 | 150 | 250 | 180 | 18 | 72.5 | 18 | M12X22 (n=8) | 45° | 14 | 10 | 53.8 | 38 | M12 | 120 |

NMRV025 小机型 / NMRV025 SMALL MODEL



减速机选型表 / GEAR UNIT SELECTION TABLES

NMRV...IEC...性能参数 / PERFORMANCE PARAMETER

| P_{in} (kw) | n_2 (r/min) | i | M_{25} (Nm) | F_{t2} (N) | f_s | | | | |
|------------------|------------------|-----|------------------|-----------------|-------|------------------|------|------------------|------|
| 0.06 | 280 | 5 | 1.8 | 439 | 6.2 | NMRV025 56B14 | 5614 | | |
| | 186.7 | 7.5 | 2.6 | 503 | 4.2 | | | | |
| | 140 | 10 | 3.4 | 553 | 3.5 | | | | |
| | 93.3 | 15 | 4.9 | 633 | 2.5 | | | | |
| | 70 | 20 | 6.2 | 697 | 1.9 | | | | |
| | 46.7 | 30 | 8.3 | 798 | 1.6 | | | | |
| | 35 | 40 | 10 | 878 | 1.2 | | | | |
| | 28 | 50 | 12 | 946 | 0.9 | | | | |
| | 23.3 | 60 | 14 | 1006 | 0.7 | | | | |
| | 186.7 | 7.5 | 2.6 | 683 | 7.0 | | | NMRV030 56B5/B14 | 5614 |
| | 140 | 10 | 3.4 | 752 | 5.4 | | | | |
| | 93.3 | 15 | 4.7 | 861 | 3.9 | | | | |
| | 70 | 20 | 6 | 948 | 3.1 | | | | |
| | 56 | 25 | 7 | 1021 | 3.1 | | | | |
| 46.7 | 30 | 8 | 1085 | 2.5 | | | | | |
| 35 | 40 | 9.7 | 1194 | 1.9 | | | | | |
| 0.09 | 280 | 5 | 1.8 | 439 | 6.2 | NMRV025 56B14 | 5612 | | |
| | 186.7 | 7.5 | 2.6 | 503 | 4.2 | | | | |
| | 140 | 10 | 3.4 | 553 | 3.5 | | | | |
| | 93.3 | 15 | 4.9 | 633 | 2.5 | | | | |
| | 70 | 20 | 6.2 | 697 | 1.9 | | | | |
| | 46.7 | 30 | 8.3 | 798 | 1.6 | | | | |
| | 35 | 40 | 10 | 878 | 1.2 | | | | |
| | 280 | 5 | 2.0 | 399 | 3.9 | NMRV025 56B14 | 5624 | | |
| | 186.7 | 7.5 | 2.8 | 503 | 2.8 | | | | |
| | 140 | 10 | 3.9 | 553 | 2.4 | | | | |
| | 93.3 | 15 | 5.1 | 633 | 1.6 | | | | |
| | 70 | 20 | 7.3 | 697 | 1.3 | | | | |
| | 46.7 | 30 | 9.3 | 798 | 1.0 | | | | |
| | 35 | 40 | 16 | 878 | 0.8 | | | | |
| 0.09 | 373.3 | 7.5 | 2.0 | 542 | 6.5 | NMRV030 56B5/B14 | 5612 | | |
| | 280 | 10 | 2.6 | 597 | 5.0 | | | | |
| | 186.7 | 15 | 3.7 | 683 | 3.5 | | | | |
| | 140 | 20 | 4.7 | 752 | 2.5 | | | | |
| | 112 | 25 | 5.5 | 810 | 2.9 | | | | |
| | 93.3 | 30 | 6.4 | 861 | 2.3 | | | | |
| | 70 | 40 | 8.0 | 948 | 1.8 | | | | |
| | 56 | 50 | 9.4 | 1021 | 1.4 | | | | |
| | 46.7 | 60 | 10 | 1085 | 1.1 | | | | |
| | 35 | 80 | 13 | 1194 | 0.9 | | | | |

减速机选型表 / GEAR UNIT SELECTION TABLES

| P_{1n} (kw) | n_2 (r/min) | i | M_{2n} (Nm) | F_{r2} (N) | f_s | | | | |
|------------------|------------------|-------|------------------|-----------------|-------|------------------|------------------|------------------|------|
| 0.09 | 186.7 | 7.5 | 3.9 | 683 | 4.7 | NMRV030 56B5/B14 | 5624 | | |
| | 140 | 10 | 5.0 | 752 | 3.6 | | | | |
| | 93.3 | 15 | 7.0 | 861 | 2.6 | | | | |
| | 70 | 20 | 8.8 | 948 | 2.0 | | | | |
| | 56 | 25 | 10 | 1021 | 2.1 | | | | |
| | 46.7 | 30 | 12 | 1085 | 1.7 | | | | |
| | 35 | 40 | 14 | 1194 | 1.2 | | | | |
| | 28 | 50 | 17 | 1286 | 1.0 | | | | |
| | 23.3 | 60 | 18 | 1367 | 0.9 | | | | |
| | 28 | 50 | 19 | 2475 | 2.1 | | | | |
| | 23.3 | 60 | 21 | 2630 | 1.7 | | | | |
| | 17.5 | 80 | 25 | 2895 | 1.3 | | | | |
| 14 | 100 | 29 | 3118 | 1.0 | | | | | |
| 0.12 | 373.3 | 7.5 | 2.7 | 399 | 3.0 | NMRV025 56B14 | 5622 | | |
| | 280 | 10 | 3.5 | 439 | 2.6 | | | | |
| | 186.7 | 15 | 5.1 | 503 | 1.8 | | | | |
| | 140 | 20 | 6.5 | 553 | 1.4 | | | | |
| | 93.3 | 30 | 9.0 | 633 | 1.0 | | | | |
| | 70 | 40 | 11 | 697 | 0.8 | | | | |
| | 0.12 | 186.7 | 7.5 | 5.2 | 683 | 3.5 | NMRV030 63B5/B14 | 6314 | |
| | | 140 | 10 | 6.6 | 752 | 2.7 | | | |
| | | 93.3 | 15 | 9.3 | 861 | 1.9 | | | |
| | | 70 | 20 | 12 | 948 | 1.5 | | | |
| | | 56 | 25 | 14 | 1021 | 1.6 | | | |
| | | 46.7 | 30 | 16 | 1085 | 1.3 | | | |
| | | 35 | 40 | 19 | 1194 | 0.9 | | | |
| | | 28 | 50 | 22 | 1286 | 0.8 | | | |
| | | 46.7 | 30 | 17 | 2087 | 2.7 | | | |
| | | 35 | 40 | 21 | 2298 | 1.9 | | | |
| | | 28 | 50 | 25 | 2475 | 1.6 | | | |
| | | 23.3 | 60 | 28 | 2630 | 1.3 | | | |
| | | 17.5 | 80 | 33 | 2895 | 1.0 | | | |
| | | 14 | 100 | 38 | 3118 | 0.8 | | | |
| | | 0.18 | 373.3 | 7.5 | 4.0 | 542 | 3.2 | NMRV040 63B5/B14 | 6314 |
| | | | 280 | 10 | 5.2 | 597 | 2.5 | | |
| | | | 186.7 | 15 | 7.4 | 683 | 1.8 | | |
| | | | 140 | 20 | 9.5 | 752 | 1.3 | | |
| 112 | | | 25 | 11 | 810 | 1.4 | | | |
| 93.3 | | | 30 | 13 | 861 | 1.2 | | | |
| 0.18 | | | 70 | 40 | 16 | 948 | 0.9 | NMRV050 63B5 | 6314 |
| | | | 186.7 | 7.5 | 7.7 | 683 | 2.3 | | |
| | | | 140 | 10 | 10 | 752 | 1.8 | | |
| | | | 93.3 | 15 | 14 | 861 | 1.3 | | |
| | 70 | | 20 | 18 | 948 | 1.0 | | | |
| | 56 | | 25 | 20 | 1021 | 1.0 | | | |
| | 46.7 | 30 | 24 | 1085 | 0.8 | | | | |

减速机选型表 / GEAR UNIT SELECTION TABLES

| P_{1n} (kw) | n_2 (r/min) | i | M_{2n} (Nm) | F_{r2} (N) | f_s | | | | |
|------------------|------------------|------|------------------|-----------------|-------|------------------|------------------|------------------|------|
| 0.09 | 93.3 | 30 | 14 | 1657 | 2.5 | NMRV040 63B5/B14 | 6312 | | |
| | 70 | 40 | 17 | 1824 | 1.8 | | | | |
| | 56 | 50 | 21 | 1964 | 1.4 | | | | |
| | 70 | 20 | 19 | 1824 | 2.1 | | | | |
| | 56 | 25 | 23 | 1964 | 1.7 | | | | |
| | 46.7 | 30 | 25 | 2087 | 1.8 | | | | |
| | 35 | 40 | 32 | 2298 | 1.3 | | | | |
| | 28 | 50 | 37 | 2475 | 1.0 | | | | |
| | 23.3 | 60 | 42 | 2630 | 0.9 | | | | |
| | 45 | 20 | 28 | 2113 | 1.6 | | | | |
| | 36 | 25 | 34 | 2276 | 1.3 | | | | |
| | 30 | 30 | 38 | 2419 | 1.3 | | | | |
| 0.18 | 22.5 | 40 | 47 | 2662 | 1.0 | NMRV040 71B5/B14 | 7116 | | |
| | 46.7 | 60 | 24 | 2865 | 2.1 | | | | |
| | 35 | 80 | 30 | 3153 | 1.5 | | | | |
| | 28 | 100 | 34 | 3397 | 1.2 | | | | |
| | 35 | 40 | 33 | 3153 | 2.3 | | | | |
| | 28 | 50 | 39 | 3397 | 1.9 | | | | |
| | 0.18 | 23.3 | 60 | 43 | 3610 | 1.6 | NMRV050 63B5 | 6324 | |
| | | 17.5 | 80 | 52 | 3973 | 1.2 | | | |
| | | 14 | 100 | 59 | 4280 | 0.9 | | | |
| | | 18 | 50 | 56 | 3936 | 1.4 | | | |
| | | 15 | 60 | 63 | 4183 | 1.1 | | | |
| | | 11.3 | 80 | 75 | 4604 | 0.9 | | | |
| | | 0.25 | 15 | 60 | 66 | 5467 | 2.1 | NMRV050 71B5/B14 | 7116 |
| | | | 11.3 | 80 | 79 | 6018 | 1.6 | | |
| | | | 9 | 100 | 90 | 6270 | 1.4 | | |
| | | | 373.3 | 7.5 | 5.6 | 542 | 2.3 | | |
| | | | 280 | 10 | 7.2 | 597 | 1.8 | | |
| | | | 186.7 | 15 | 10 | 683 | 1.3 | | |
| | 0.18 | | 140 | 20 | 13 | 752 | 0.9 | NMRV030 63B5/B14 | 6322 |
| | | | 112 | 25 | 15 | 810 | 1.0 | | |
| | | | 93.3 | 30 | 18 | 861 | 0.8 | | |
| | | | 186.7 | 7.5 | 11 | 1315 | 3.6 | | |
| | | | 140 | 10 | 14 | 1447 | 2.8 | | |
| | | | 93.3 | 15 | 20 | 1657 | 2.0 | | |
| 0.25 | | 70 | 20 | 26 | 1824 | 1.5 | NMRV040 71B5/B14 | 7114 | |
| | | 56 | 25 | 32 | 1964 | 1.2 | | | |
| | | 46.7 | 30 | 35 | 2087 | 1.3 | | | |
| | | 35 | 40 | 44 | 2298 | 0.9 | | | |
| | | 120 | 7.5 | 17 | 1524 | 2.6 | | | |
| | | 90 | 10 | 22 | 1677 | 2.0 | | | |
| | | 0.25 | 60 | 15 | 31 | 1920 | 1.4 | NMRV040 71B5/B14 | 7126 |
| | | | 45 | 20 | 39 | 2113 | 1.1 | | |
| | | | 36 | 25 | 48 | 2276 | 0.9 | | |
| | | | 30 | 30 | 53 | 2419 | 0.9 | | |

减速机选型表 / GEAR UNIT SELECTION TABLES

| P_{in} (kw) | n_2 (r/min) | i | M_{2n} (Nm) | F_{r2} (N) | f_s | | | |
|------------------|------------------|-----|------------------|-----------------|------------------|------------------|--------------|------|
| 0.25 | 35 | 80 | 42 | 3153 | 1.1 | NMRV050 63B5/B14 | 6322 | |
| | 28 | 100 | 48 | 3397 | 0.8 | | | |
| | 70 | 20 | 27 | 2503 | 2.7 | NMRV050 71B5/B14 | 7114 | |
| | 56 | 25 | 32 | 2696 | 2.2 | | | |
| | 46.7 | 30 | 36 | 2865 | 2.3 | | | |
| | 35 | 40 | 46 | 3153 | 1.7 | | | |
| | 28 | 50 | 54 | 3397 | 1.4 | | | |
| | 23.3 | 60 | 60 | 3610 | 1.1 | | | |
| | 17.5 | 80 | 72 | 3973 | 0.9 | NMRV050 71B5/B14 | 7126 | |
| | 45 | 20 | 40 | 2900 | 1.9 | | | |
| | 36 | 25 | 48 | 3124 | 1.5 | | | |
| | 30 | 30 | 54 | 3320 | 1.7 | | | |
| | 22.5 | 40 | 67 | 3654 | 1.2 | | | |
| | 18 | 50 | 78 | 3936 | 1.0 | | | |
| | 15 | 60 | 88 | 4183 | 0.8 | NMRV063 71B5/B14 | 7114 | |
| | 28 | 50 | 55 | 4440 | 2.4 | | | |
| | 23.3 | 60 | 63 | 4719 | 2.0 | | | |
| | 17.5 | 80 | 76 | 5193 | 1.6 | | | |
| | 14 | 100 | 87 | 5595 | 1.4 | | | |
| | 18 | 50 | 81 | 5145 | 1.8 | | | |
| 15 | 60 | 92 | 5467 | 1.5 | NMRV063 71B5/B14 | 7126 | | |
| 11.3 | 80 | 110 | 6018 | 1.2 | | | | |
| 9 | 100 | 125 | 6270 | 1.0 | | | | |
| 17.5 | 80 | 80 | 6130 | 2.4 | | | NMRV075 71B5 | 7114 |
| 14 | 100 | 94 | 6603 | 1.9 | | | | |
| 11.3 | 80 | 117 | 7103 | 1.7 | | | NMRV075 71B5 | 7126 |
| 9 | 100 | 133 | 7380 | 1.4 | | | | |
| 0.37 | 373.3 | 7.5 | 8.3 | 1044 | 3.4 | NMRV040 71B5/B14 | 7112 | |
| | 280 | 10 | 11 | 1149 | 2.6 | | | |
| | 186.7 | 15 | 16 | 1315 | 1.9 | | | |
| | 140 | 20 | 20 | 1447 | 1.4 | | | |
| | 112 | 25 | 25 | 1559 | 1.1 | | | |
| | 186.7 | 7.5 | 16 | 1315 | 2.5 | NMRV040 71B5/B14 | 7124 | |
| | 140 | 10 | 21 | 1447 | 1.9 | | | |
| | 93.3 | 15 | 30 | 1657 | 1.3 | | | |
| | 70 | 20 | 39 | 1824 | 1.0 | | | |
| | 56 | 25 | 47 | 1964 | 0.8 | | | |
| | 46.7 | 30 | 52 | 2087 | 0.9 | | | |
| | 112 | 25 | 25 | 2140 | 2.0 | NMRV050 71B5/B14 | 7112 | |
| | 93.3 | 30 | 29 | 2274 | 2.2 | | | |
| | 70 | 40 | 37 | 2503 | 1.6 | | | |
| | 56 | 50 | 44 | 2696 | 1.2 | | | |
| | 46.7 | 60 | 50 | 2865 | 1.0 | | | |
| | 35 | 80 | 62 | 3153 | 0.7 | | | |
| | 140 | 10 | 21 | 1987 | 3.4 | NMRV050 71B5/B14 | 7124 | |
| | 93.3 | 15 | 31 | 2274 | 2.4 | | | |
| | 70 | 20 | 39 | 2503 | 1.9 | | | |

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| P_{in} (kw) | n_2 (r/min) | i | M_{2n} (Nm) | F_{r2} (N) | f_s | | | |
|------------------|------------------|-----|------------------|-----------------|------------------|------------------|------------------|------------------|
| 0.37 | 56 | 25 | 47 | 2696 | 1.5 | NMRV050 71B5/B14 | 7124 | |
| | 46.7 | 30 | 54 | 2865 | 1.6 | | | |
| | 35 | 40 | 68 | 3153 | 1.1 | | | |
| | 28 | 50 | 80 | 3397 | 0.9 | | | |
| | 23.3 | 60 | 89 | 3610 | 0.8 | | | |
| | 120 | 7.5 | 25 | 2091 | 3.4 | | | NMRV050 80B5/B14 |
| | 90 | 10 | 33 | 2302 | 2.6 | | | |
| | 60 | 15 | 47 | 2635 | 1.8 | | | |
| | 45 | 20 | 59 | 2900 | 1.3 | | | |
| | 36 | 25 | 72 | 3124 | 1.0 | | | |
| | 30 | 30 | 80 | 3320 | 1.1 | | | |
| | 35 | 40 | 70 | 4122 | 2.1 | NMRV063 71B5/B14 | 7124 | |
| | 28 | 50 | 82 | 4440 | 1.6 | | | |
| | 23.3 | 60 | 94 | 4719 | 1.4 | | | |
| | 17.5 | 80 | 113 | 5193 | 1.1 | | | |
| | 14 | 100 | 129 | 5595 | 0.9 | | | |
| | 45 | 20 | 60 | 3791 | 2.4 | | | NMRV063 80B5/B14 |
| | 36 | 25 | 73 | 4084 | 1.9 | | | |
| | 30 | 30 | 82 | 4339 | 2.1 | | | |
| | 22.5 | 40 | 102 | 4776 | 1.6 | | | |
| 18 | 50 | 120 | 5145 | 1.2 | | | | |
| 15 | 60 | 137 | 5467 | 1.0 | | | | |
| 23.3 | 60 | 97 | 5569 | 2.1 | NMRV075 71B5 | 7124 | | |
| 17.5 | 80 | 119 | 6130 | 1.6 | | | | |
| 14 | 100 | 139 | 6603 | 1.3 | | | | |
| 18 | 50 | 124 | 6073 | 1.8 | | | | |
| 15 | 60 | 141 | 6453 | 1.5 | | | | |
| 11.3 | 80 | 173 | 7103 | 1.2 | | | NMRV075 80B5/B14 | 8016 |
| 9 | 100 | 196 | 7380 | 1.0 | | | | |
| 11.3 | 80 | 185 | 7859 | 1.7 | | | | |
| 9 | 100 | 212 | 8180 | 1.3 | | | | |
| 373.3 | 7.5 | 12 | 1044 | 2.3 | NMRV040 71B5/B14 | 7122 | | |
| 280 | 10 | 16 | 1149 | 1.8 | | | | |
| 186.7 | 15 | 24 | 1315 | 1.3 | | | | |
| 140 | 20 | 30 | 1447 | 1.0 | | | | |
| 112 | 25 | 37 | 1559 | 0.8 | | | | |
| 140 | 20 | 31 | 1987 | 1.7 | NMRV050 71B5/B14 | 7122 | | |
| 112 | 25 | 38 | 2140 | 1.4 | | | | |
| 93.3 | 30 | 43 | 2274 | 1.5 | | | | |
| 70 | 40 | 55 | 2503 | 1.1 | | | | |
| 56 | 50 | 65 | 2696 | 0.8 | | | | |
| 46.7 | 60 | 74 | 2865 | 0.7 | | | | |
| 186.7 | 7.5 | 24 | 1805 | 2.9 | NMRV050 80B5/B14 | 8014 | | |
| 140 | 10 | 32 | 1987 | 2.3 | | | | |
| 93.3 | 15 | 46 | 2274 | 1.6 | | | | |
| 70 | 20 | 59 | 2503 | 1.2 | | | | |
| 56 | 25 | 70 | 2696 | 1.0 | | | | |
| 46.7 | 30 | 80 | 2865 | 1.1 | | | | |

减速机选型表 / GEAR UNIT SELECTION TABLES

| P_{in} (kw) | n_2 (r/min) | i | M_{2n} (Nm) | F_{r2} (N) | f_s | | | | |
|------------------|------------------|-----|------------------|-----------------|--------------|------------------|------|------------------|------|
| 0.55 | 120 | 7.5 | 37 | 2091 | 2.3 | NMRV050 80B5/B14 | 8026 | | |
| | 90 | 10 | 48 | 2302 | 1.7 | | | | |
| | 60 | 15 | 69 | 2635 | 1.2 | | | | |
| | 45 | 20 | 88 | 2900 | 0.9 | | | | |
| | 70 | 40 | 56 | 3272 | 1.9 | NMRV063 71B5/B14 | 7122 | | |
| | 56 | 50 | 68 | 3524 | 1.5 | | | | |
| | 46.7 | 60 | 78 | 3745 | 1.2 | | | | |
| | 35 | 80 | 96 | 4122 | 0.9 | | | | |
| | 28 | 100 | 111 | 4440 | 0.7 | NMRV063 80B5/B14 | 8014 | | |
| | 70 | 20 | 60 | 3272 | 2.2 | | | | |
| | 56 | 25 | 72 | 3524 | 1.8 | | | | |
| | 46.7 | 30 | 82 | 3745 | 1.9 | | | | |
| | 35 | 40 | 104 | 4122 | 1.4 | NMRV063 80B5/B14 | 8026 | | |
| | 28 | 50 | 122 | 4440 | 1.1 | | | | |
| | 23.3 | 60 | 140 | 4719 | 0.9 | | | | |
| | 60 | 15 | 70 | 3444 | 2.2 | | | | |
| | 45 | 20 | 90 | 3791 | 1.6 | NMRV063 80B5/B14 | 8026 | | |
| | 36 | 25 | 108 | 4084 | 1.3 | | | | |
| | 30 | 30 | 123 | 4339 | 1.4 | | | | |
| | 22.5 | 40 | 152 | 4776 | 1.1 | | | | |
| | 35 | 80 | 99 | 4865 | 1.3 | NMRV075 71B5 | 7122 | | |
| | 28 | 100 | 116 | 5241 | 1.0 | | | | |
| | 35 | 40 | 108 | 4865 | 2.0 | | | NMRV075 80B5/B14 | 8014 |
| | 28 | 50 | 128 | 5241 | 1.6 | | | | |
| | 23.3 | 60 | 144 | 5569 | 1.4 | | | | |
| | 17.5 | 80 | 177 | 6130 | 1.1 | | | | |
| | 14 | 100 | 206 | 6603 | 0.9 | NMRV075 80B5/B14 | 8026 | | |
| | 30 | 30 | 124 | 5122 | 2.1 | | | | |
| | 22.5 | 40 | 156 | 5637 | 1.5 | | | | |
| | 18 | 50 | 184 | 6073 | 1.2 | | | | |
| | 15 | 60 | 210 | 6453 | 1.0 | NMRV090 80B5/B14 | 8014 | | |
| | 17.5 | 80 | 189 | 6783 | 1.5 | | | | |
| | 14 | 100 | 221 | 7306 | 1.2 | | | | |
| | 18 | 50 | 196 | 6719 | 2.0 | | | | |
| | 15 | 60 | 224 | 7140 | 1.6 | NMRV090 80B5/B14 | 8026 | | |
| | 11.3 | 80 | 275 | 7859 | 1.1 | | | | |
| | 9 | 100 | 315 | 8180 | 0.9 | | | | |
| | 17.5 | 80 | 201 | 8571 | 2.6 | | | | |
| | 14 | 100 | 236 | 9232 | 2.0 | NMRV110 80B5 | 8014 | | |
| | 11.3 | 80 | 294 | 9931 | 1.9 | | | | |
| 9 | 100 | 344 | 10320 | 1.5 | NMRV110 80B5 | 8026 | | | |

减速机选型表 / GEAR UNIT SELECTION TABLES

| P_{in} (kw) | n_2 (r/min) | i | M_{2n} (Nm) | F_{r2} (N) | f_s | | |
|------------------|------------------|-----|------------------|-----------------|------------------|------------------|------|
| 0.75 | 373.3 | 7.5 | 17 | 1433 | 3.0 | NMRV050 80B5/B14 | 8012 |
| | 280 | 10 | 22 | 1577 | 2.4 | | |
| | 186.7 | 15 | 31 | 1805 | 1.7 | | |
| | 140 | 20 | 41 | 1987 | 1.3 | | |
| | 112 | 25 | 49 | 2140 | 1.0 | NMRV050 80B5/B14 | 8024 |
| | 93.3 | 30 | 56 | 2274 | 1.1 | | |
| | 280 | 5 | 23 | 1577 | 2.7 | | |
| | 186.7 | 7.5 | 33 | 1805 | 2.1 | | |
| | 140 | 10 | 43 | 1987 | 1.7 | NMRV050 80B5/B14 | 8024 |
| | 93.3 | 15 | 62 | 2274 | 1.2 | | |
| | 70 | 20 | 80 | 2503 | 0.9 | | |
| | 140 | 20 | 43 | 2597 | 2.3 | | |
| | 112 | 25 | 52 | 2797 | 1.8 | NMRV063 80B5/B14 | 8012 |
| | 93.3 | 30 | 60 | 2973 | 2.0 | | |
| | 70 | 40 | 77 | 3272 | 1.4 | | |
| | 56 | 50 | 92 | 3524 | 1.1 | | |
| | 46.7 | 60 | 106 | 3745 | 0.9 | NMRV063 80B5/B14 | 8024 |
| | 93.3 | 15 | 63 | 2973 | 2.2 | | |
| | 70 | 20 | 82 | 3272 | 1.6 | | |
| | 56 | 25 | 98 | 3524 | 1.3 | | |
| | 46.7 | 30 | 112 | 3745 | 1.4 | NMRV063 90B5/B14 | 90S6 |
| | 35 | 40 | 141 | 4122 | 1.0 | | |
| | 120 | 7.5 | 51 | 2734 | 2.9 | | |
| | 90 | 10 | 67 | 3009 | 2.3 | | |
| | 60 | 15 | 96 | 3444 | 1.6 | NMRV063 90B5/B14 | 90S6 |
| | 45 | 20 | 123 | 3791 | 1.2 | | |
| | 36 | 25 | 147 | 4084 | 0.9 | | |
| | 30 | 30 | 167 | 4339 | 1.0 | | |
| | 46.7 | 60 | 107 | 4421 | 1.3 | NMRV075 80B5/B14 | 8012 |
| | 35 | 80 | 135 | 4865 | 1.0 | | |
| | 28 | 100 | 159 | 5241 | 0.8 | | |
| | 56 | 25 | 101 | 4160 | 2.0 | | |
| | 46.7 | 30 | 117 | 4421 | 2.0 | NMRV075 80B5/B14 | 8024 |
| | 35 | 40 | 147 | 4865 | 1.5 | | |
| | 28 | 50 | 174 | 5241 | 1.2 | | |
| | 23.3 | 60 | 196 | 5569 | 1.0 | | |
| | 60 | 15 | 97 | 4065 | 2.4 | NMRV075 90B5/B14 | 90S6 |
| | 45 | 20 | 124 | 4474 | 1.9 | | |
| | 36 | 25 | 149 | 4820 | 1.4 | | |
| | 30 | 30 | 170 | 5122 | 1.5 | | |
| 22.5 | 40 | 213 | 5637 | 1.1 | NMRV090 80B5/B14 | 8012 | |
| 35 | 80 | 143 | 5383 | 1.6 | | | |
| 28 | 100 | 169 | 5799 | 1.2 | | | |
| 28 | 50 | 182 | 5799 | 1.9 | | | |
| 23.3 | 60 | 209 | 6163 | 1.5 | NMRV090 80B5/B14 | 8024 | |
| 17.5 | 80 | 258 | 6783 | 1.1 | | | |
| 14 | 100 | 302 | 7306 | 0.9 | | | |

减速机选型表 / GEAR UNIT SELECTION TABLES

| P_{in} (kw) | n_2 (r/min) | i | M_{2n} (Nm) | F_{r2} (N) | f_s | | | | |
|------------------|------------------|-------|------------------|-----------------|-------|---------|----------|----------|------|
| 0.75 | 30 | 30 | 179 | 5667 | 2.6 | NMRV090 | 90B5/B14 | 90S6 | |
| | 22.5 | 40 | 226 | 6238 | 1.8 | | | | |
| | 18 | 50 | 267 | 6719 | 1.5 | | | | |
| | 15 | 60 | 306 | 7140 | 1.1 | | | | |
| | 17.5 | 80 | 274 | 8571 | 1.9 | NMRV110 | 80B5 | 8024 | |
| | 14 | 100 | 322 | 9232 | 1.5 | | | | |
| | 15 | 60 | 325 | 9023 | 2.1 | NMRV110 | 90B5/B14 | 90S6 | |
| | 11.3 | 80 | 401 | 9931 | 1.4 | | | | |
| | 9 | 100 | 470 | 10320 | 1.1 | | | | |
| | 11.3 | 80 | 401 | 12989 | 2.1 | | | | |
| | 9 | 100 | 470 | 13500 | 1.7 | NMRV130 | 90B5 | 90S6 | |
| | 1.1 | 373.3 | 7.5 | 25 | 1433 | 2.1 | NMRV050 | 80B5/B14 | 8022 |
| 280 | | 10 | 33 | 1577 | 1.7 | | | | |
| 186.7 | | 15 | 48 | 1805 | 1.2 | | | | |
| 140 | | 20 | 62 | 1987 | 0.9 | | | | |
| 186.7 | | 15 | 46 | 2359 | 2.1 | NMRV063 | 80B5/B14 | 8022 | |
| 140 | | 20 | 60 | 2597 | 1.6 | | | | |
| 112 | | 25 | 72 | 2797 | 1.2 | | | | |
| 93.3 | | 30 | 82 | 2973 | 1.4 | | | | |
| 70 | | 40 | 104 | 3272 | 1.0 | NMRV063 | 90B5/B14 | 90L6 | |
| 120 | | 7.5 | 75 | 2734 | 2.0 | | | | |
| 90 | | 10 | 98 | 3009 | 1.6 | | | | |
| 60 | | 15 | 140 | 3444 | 1.1 | | | | |
| 45 | | 20 | 180 | 3791 | 0.8 | NMRV063 | 90B5/B14 | 90S4 | |
| 186.7 | | 7.5 | 50 | 2359 | 2.6 | | | | |
| 140 | | 10 | 65 | 2597 | 2.0 | | | | |
| 93.3 | | 15 | 92 | 2973 | 1.5 | | | | |
| 70 | | 20 | 120 | 3272 | 1.1 | | | | |
| 56 | | 25 | 144 | 3524 | 0.9 | | | | |
| 46.7 | | 30 | 164 | 3745 | 1.0 | | | | |
| 112 | | 25 | 77 | 3302 | 2.0 | | | | |
| 93.3 | | 30 | 89 | 3509 | 1.9 | | | | |
| 1.5 | | 70 | 40 | 114 | 3862 | 1.4 | NMRV075 | 80B5/B14 | 8022 |
| | | 56 | 50 | 137 | 4160 | 1.1 | | | |
| | | 46.7 | 60 | 158 | 4421 | 0.9 | | | |
| | 90 | 10 | 98 | 3551 | 2.3 | | | | |
| | 60 | 15 | 142 | 4065 | 1.7 | NMRV075 | 90B5/B14 | 90L6 | |
| | 45 | 20 | 182 | 4474 | 1.3 | | | | |
| | 36 | 25 | 219 | 4820 | 1.0 | | | | |
| | 30 | 30 | 249 | 5122 | 1.0 | | | | |

减速机选型表 / GEAR UNIT SELECTION TABLES

| P_{in} (kw) | n_2 (r/min) | i | M_{2n} (Nm) | F_{r2} (N) | f_s | | | |
|------------------|------------------|-----|------------------|-----------------|---------|----------|-----------|-------|
| 1.1 | 93.3 | 15 | 95 | 3509 | 2.1 | NMRV075 | 90B5/B14 | 90S4 |
| | 70 | 20 | 122 | 3862 | 1.7 | | | |
| | 56 | 25 | 148 | 4160 | 1.3 | | | |
| | 46.7 | 30 | 171 | 4421 | 1.3 | | | |
| | 35 | 40 | 216 | 4865 | 1.0 | | | |
| | 35 | 80 | 210 | 5383 | 1.1 | | | |
| | 28 | 100 | 248 | 5799 | 0.8 | NMRV090 | 80B5/B14 | 8022 |
| | 36 | 25 | 228 | 5333 | 1.6 | | | |
| | 30 | 30 | 263 | 5667 | 1.8 | NMRV090 | 90B5/B14 | 90L6 |
| | 22.5 | 40 | 331 | 6238 | 1.2 | | | |
| | 18 | 50 | 391 | 6719 | 1.0 | | | |
| | 15 | 60 | 448 | 7140 | 0.8 | | | |
| | 35 | 40 | 222 | 5383 | 1.6 | | | |
| | 28 | 50 | 266 | 5799 | 1.3 | | | |
| | 23.3 | 60 | 306 | 6163 | 1.0 | NMRV090 | 90B5/B14 | 90S4 |
| | 22.5 | 40 | 345 | 7882 | 2.3 | | | |
| | 18 | 50 | 414 | 8491 | 1.8 | NMRV110 | 90B5/B14 | 90L6 |
| | 15 | 60 | 476 | 9023 | 1.4 | | | |
| 11.3 | 80 | 588 | 9931 | 1.0 | | | | |
| 28 | 50 | 278 | 7328 | 2.4 | | | | |
| 23.3 | 60 | 324 | 7787 | 1.9 | NMRV110 | 90B5/B14 | 90S4 | |
| 17.5 | 80 | 402 | 8571 | 1.3 | | | | |
| 14 | 100 | 473 | 9232 | 1.0 | | | | |
| 11.3 | 80 | 588 | 12989 | 1.5 | | | | |
| 9 | 100 | 689 | 13500 | 1.1 | NMRV130 | 90B5 | 90L6 | |
| 17.5 | 80 | 408 | 11210 | 2.1 | | | | |
| 14 | 100 | 480 | 12076 | 1.5 | NMRV130 | 90B5 | 90S4 | |
| 1.5 | 373.3 | 7.5 | 34 | 1433 | 1.5 | NMRV050 | 80B5/B14 | 8032 |
| | 280 | 10 | 45 | 1577 | 1.2 | | | |
| | 186.7 | 15 | 65 | 1805 | 0.9 | | | |
| | 140 | 20 | 88 | 2597 | 1.5 | | | |
| | 186.7 | 7.5 | 68 | 2359 | 1.9 | NMRV063 | 90B5/B14 | 90L4 |
| | 140 | 10 | 88 | 2597 | 1.5 | | | |
| | 93.3 | 15 | 126 | 2973 | 1.1 | | | |
| | 70 | 20 | 164 | 3272 | 0.8 | | | |
| | 373.3 | 7.5 | 35 | 1873 | 2.7 | NMRV063 | 90B5/B14 | 90S2 |
| | 280 | 10 | 45 | 2061 | 2.2 | | | |
| | 186.7 | 15 | 66 | 2359 | 1.6 | | | |
| | 140 | 20 | 86 | 2597 | 1.2 | | | |
| | 112 | 25 | 105 | 2797 | 0.9 | NMRV063 | 90B5/B14 | 90S2 |
| | 93.3 | 30 | 120 | 2973 | 1.0 | | | |
| | 120 | 7.5 | 103 | 3227 | 2.1 | | | |
| | 90 | 10 | 134 | 3551 | 1.7 | | | |
| | 60 | 15 | 193 | 4065 | 1.2 | NMRV075 | 100B5/B14 | 100L6 |
| | 56 | 50 | 187 | 4160 | 1.3 | | | |
| | 46.7 | 60 | 215 | 4421 | 1.1 | | | |
| | 140 | 10 | 89 | 3065 | 2.2 | | | |
| | 93.3 | 15 | 129 | 3509 | 1.6 | NMRV075 | 90B5/B14 | 90L4 |
| | 70 | 20 | 166 | 3862 | 1.3 | | | |
| | 56 | 25 | 202 | 4160 | 1.0 | | | |

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| P_{in} (kw) | n_2 (r/min) | i | M_{2n} (Nm) | F_{r2} (N) | f_s | | |
|------------------|------------------|-----|------------------|-----------------|---------|---------------|-------------------|
| 1.5 | 46.7 | 30 | 233 | 4421 | 1.0 | NMRV075 | 90B5/B14 90L4 |
| | 280 | 10 | 45 | 2433 | 3.2 | NMRV075 | 90B5/B14 90S2 |
| | 186.7 | 15 | 66 | 2785 | 2.3 | | |
| | 140 | 20 | 86 | 3065 | 1.9 | | |
| | 112 | 25 | 105 | 3302 | 1.4 | | |
| | 93.3 | 30 | 121 | 3509 | 1.4 | | |
| | 70 | 40 | 156 | 3862 | 1.1 | | |
| | 90 | 10 | 137 | 3929 | 2.7 | NMRV090 | 100B5/B14 100L6 |
| | 60 | 15 | 198 | 4498 | 2.1 | | |
| | 45 | 20 | 258 | 4951 | 1.5 | | |
| | 36 | 25 | 310 | 5333 | 1.2 | | |
| | 30 | 30 | 358 | 5667 | 1.3 | | |
| | 70 | 20 | 170 | 4273 | 2.1 | | |
| | 56 | 25 | 207 | 4603 | 1.6 | NMRV090 | 90B5/B14 90L4 |
| | 46.7 | 30 | 239 | 4891 | 1.7 | | |
| | 35 | 40 | 303 | 5383 | 1.2 | | |
| | 28 | 50 | 363 | 5799 | 0.9 | | |
| | 23.3 | 60 | 417 | 6163 | 0.8 | | |
| | 56 | 50 | 197 | 4603 | 1.3 | | |
| | 46.7 | 60 | 227 | 4891 | 1.1 | NMRV090 | 90B5/B14 90S2 |
| | 45 | 20 | 264 | 6256 | 2.7 | | |
| | 36 | 25 | 322 | 6739 | 2.4 | | |
| | 30 | 30 | 363 | 7161 | 2.3 | | |
| | 22.5 | 40 | 471 | 7882 | 1.7 | | |
| | 18 | 50 | 565 | 8491 | 1.3 | | |
| | 15 | 60 | 649 | 9023 | 1.1 | NMRV110 | 100B5 100L6 |
| | 35 | 40 | 315 | 6803 | 2.2 | | |
| | 28 | 50 | 379 | 7328 | 1.7 | | |
| | 23.3 | 60 | 442 | 7787 | 1.4 | | |
| | 17.5 | 80 | 548 | 8571 | 0.9 | | |
| 46.7 | 60 | 236 | 6181 | 2.0 | | | |
| 35 | 80 | 299 | 6803 | 1.3 | NMRV110 | 90B5/B14 90S2 | |
| 28 | 100 | 358 | 7328 | 1.0 | | | |
| 22.5 | 40 | 471 | 10309 | 2.3 | | | |
| 18 | 50 | 565 | 11105 | 1.9 | | | |
| 15 | 60 | 659 | 11801 | 1.4 | | | |
| 11.3 | 80 | 802 | 12989 | 1.1 | | | |
| 17.5 | 80 | 557 | 11210 | 1.5 | NMRV130 | 100B5 100L6 | |
| 14 | 100 | 655 | 12076 | 1.1 | | | |
| 2.2 | 373.3 | 7.5 | 51 | 1873 | 1.8 | NMRV063 | 90B5/B14 90L2 |
| | 280 | 10 | 66 | 2061 | 1.5 | | |
| | 186.7 | 15 | 97 | 2359 | 1.1 | | |
| | 186.7 | 7.5 | 99 | 2785 | 1.9 | NMRV075 | 100B5/B14 100L1-4 |
| | 140 | 10 | 131 | 3065 | 1.5 | | |
| | 93.3 | 15 | 189 | 3509 | 1.1 | | |
| | 373.3 | 7.5 | 50 | 2210 | 2.6 | | |
| | 280 | 10 | 66 | 2433 | 2.2 | NMRV075 | 90B5/B14 90L2 |
| | 186.7 | 15 | 97 | 2785 | 1.5 | | |
| | 140 | 20 | 126 | 3065 | 1.3 | | |

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| P_{in} (kw) | n_2 (r/min) | i | M_{2n} (Nm) | F_{r2} (N) | f_s | | | |
|------------------|------------------|-----|------------------|-----------------|---------|---------------|-------------------|---------------|
| 2.2 | 112 | 25 | 154 | 3302 | 1.0 | NMRV075 | 100B5/B14 90L2 | |
| | 93.3 | 30 | 178 | 3509 | 1.0 | | | |
| | 186.7 | 7.5 | 100 | 3081 | 2.9 | NMRV090 | 100B5/B14 100L1-4 | |
| | 140 | 10 | 132 | 3391 | 2.3 | | | |
| | 93.3 | 15 | 191 | 3882 | 1.9 | | | |
| | 70 | 20 | 249 | 4273 | 1.4 | | | |
| | 56 | 25 | 304 | 4603 | 1.1 | | | |
| | 46.7 | 30 | 351 | 4891 | 1.2 | | | |
| | 120 | 7.5 | 154 | 3570 | 2.2 | NMRV090 | 112B5/B14 112M6 | |
| | 90 | 10 | 201 | 3929 | 1.8 | | | |
| | 60 | 15 | 291 | 4498 | 1.4 | | | |
| | 45 | 20 | 378 | 4951 | 1.0 | | | |
| | 140 | 20 | 129 | 3391 | 2.0 | | | |
| | 112 | 25 | 159 | 3653 | 1.6 | | | |
| | 93.3 | 30 | 185 | 3882 | 1.7 | NMRV090 | 90B5/B14 90L2 | |
| | 70 | 40 | 237 | 4273 | 1.2 | | | |
| | 56 | 50 | 289 | 4603 | 0.9 | | | |
| | 70 | 20 | 255 | 5399 | 2.5 | | | |
| | 56 | 25 | 311 | 5816 | 2.2 | | | |
| | 46.7 | 30 | 356 | 6181 | 2.0 | | | |
| | 35 | 40 | 462 | 6803 | 1.5 | NMRV110 | 100B5 100L1-4 | |
| | 28 | 50 | 555 | 7328 | 1.2 | | | |
| | 23.3 | 60 | 648 | 7787 | 1.0 | | | |
| | 90 | 10 | 203 | 4965 | 3.5 | | | |
| | 60 | 15 | 294 | 5684 | 2.6 | | | |
| | 45 | 20 | 388 | 6256 | 1.9 | | | |
| | 36 | 25 | 473 | 6739 | 1.6 | NMRV110 | 112B5 112M6 | |
| | 30 | 30 | 532 | 7161 | 1.6 | | | |
| | 112 | 25 | 161 | 4616 | 3.1 | | | |
| | 93.3 | 30 | 187 | 4905 | 3.0 | | | |
| 70 | 40 | 243 | 5399 | 2.2 | | | | |
| 56 | 50 | 296 | 5816 | 1.7 | | | | |
| 46.7 | 60 | 347 | 6181 | 1.4 | NMRV110 | 90B5/B14 90L2 | | |
| 35 | 40 | 468 | 8897 | 2.2 | | | | |
| 28 | 50 | 563 | 9584 | 1.7 | | | | |
| 23.3 | 60 | 657 | 10185 | 1.4 | | | | |
| 17.5 | 80 | 816 | 11210 | 1.0 | | | | |
| 36 | 25 | 473 | 8814 | 2.2 | | | | |
| 30 | 30 | 539 | 9366 | 2.2 | NMRV130 | 100B5 100L1-4 | | |
| 22.5 | 40 | 691 | 10309 | 1.6 | | | | |
| 18 | 50 | 829 | 11105 | 1.3 | | | | |
| 15 | 60 | 966 | 11801 | 1.0 | | | | |
| 35 | 80 | 444 | 8897 | 1.3 | | | | |
| 28 | 100 | 525 | 9584 | 1.0 | | | | |
| 28 | 50 | 570 | 13103 | 2.5 | NMRV130 | 90B5 90L2 | | |
| 23.3 | 60 | 657 | 13924 | 1.9 | | | | |
| 17.5 | 80 | 816 | 15325 | 1.4 | | | | |
| 14 | 100 | 960 | 16508 | 1.0 | | | | |
| 22.5 | 40 | 691 | 10309 | 1.6 | | | NMRV150 | 100B5 100L1-4 |
| 18 | 50 | 829 | 11105 | 1.3 | | | | |
| 15 | 60 | 966 | 11801 | 1.0 | | | | |
| 35 | 80 | 444 | 8897 | 1.3 | | | | |
| 28 | 100 | 525 | 9584 | 1.0 | | | | |
| 28 | 50 | 570 | 13103 | 2.5 | | | | |

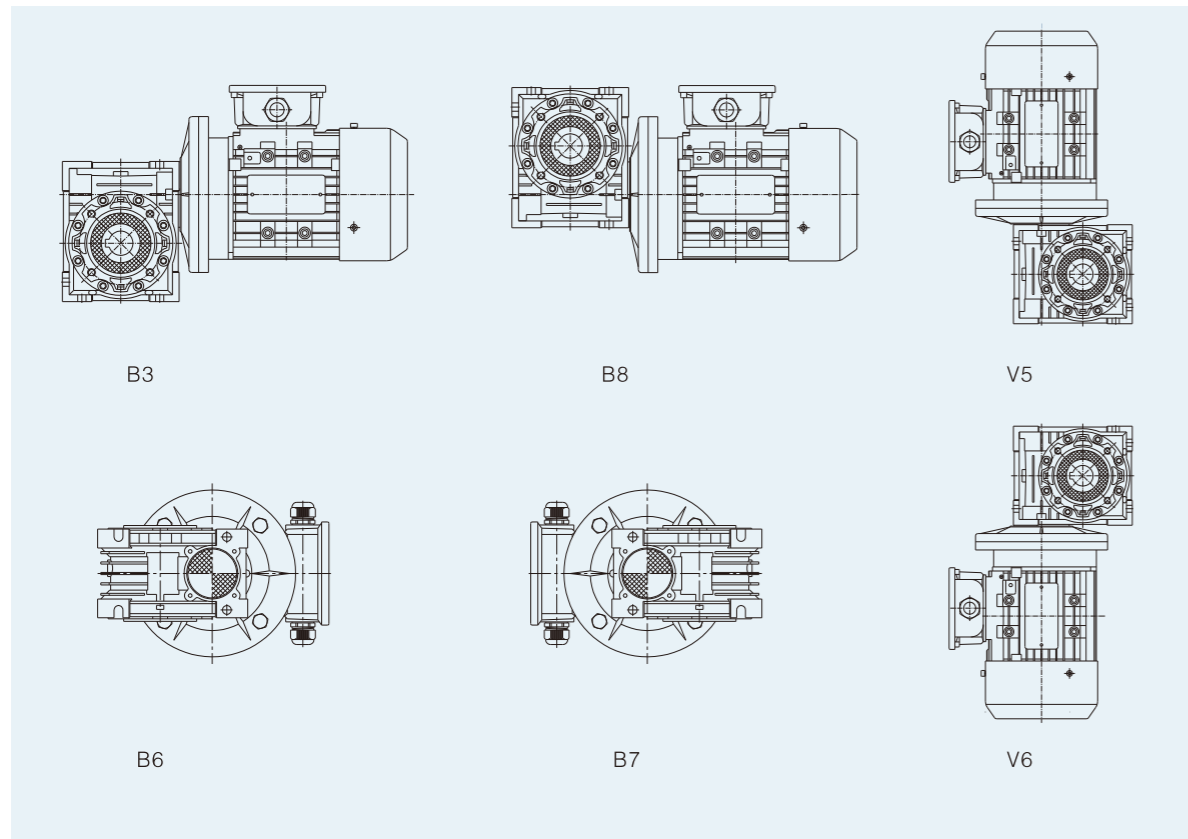
减速机选型表 / GEAR UNIT SELECTION TABLES

| P_{1n} (kw) | n_2 (r/min) | i | M_{2n} (Nm) | F_{r2} (Nm) | f_s | | |
|------------------|------------------|------|------------------|------------------|---------------|-------------------|---------|
| 3.0 | 373.3 | 7.5 | 68 | 2210 | 1.9 | NMRV075 100B5/B14 | 100L2 |
| | 280 | 10 | 90 | 2433 | 1.6 | | |
| | 186.7 | 7.5 | 135 | 2785 | 1.4 | NMRV075 100B5/B14 | 100L2-4 |
| | 140 | 10 | 178 | 3065 | 1.1 | | |
| | 93.3 | 15 | 258 | 3509 | 0.8 | | |
| | 373.3 | 7.5 | 70 | 2446 | 3.0 | | |
| | 280 | 10 | 92 | 2692 | 2.6 | NMRV090 100B5/B14 | 100L2 |
| | 186.7 | 7.5 | 137 | 3081 | 2.1 | NMRV090 100B5/B14 | 100L2-4 |
| | 140 | 10 | 180 | 3391 | 1.7 | | |
| | 93.3 | 15 | 261 | 3882 | 1.4 | | |
| | 70 | 20 | 340 | 4273 | 1.0 | | |
| | 56 | 25 | 414 | 4603 | 0.8 | | |
| | 46.7 | 30 | 479 | 4891 | 0.9 | | |
| | 93.3 | 15 | 264 | 4905 | 2.5 | | |
| | 70 | 20 | 348 | 5399 | 1.9 | | |
| | 56 | 25 | 425 | 5816 | 1.6 | | |
| | 46.7 | 30 | 485 | 6181 | 1.5 | | |
| | 35 | 40 | 630 | 6803 | 1.1 | NMRV110 100B5 | 100L2-4 |
| | 28 | 50 | 757 | 7328 | 0.9 | | |
| | 120 | 7.5 | 210 | 4511 | 3.1 | | |
| | 90 | 10 | 277 | 4965 | 2.6 | | |
| | 60 | 15 | 401 | 5684 | 1.9 | | |
| | 45 | 20 | 528 | 6256 | 1.4 | | |
| | 56 | 25 | 430 | 7607 | 2.2 | | |
| | 46.7 | 30 | 491 | 8084 | 2.1 | | |
| | 35 | 40 | 638 | 8897 | 1.6 | | |
| | 28 | 50 | 767 | 9584 | 1.3 | | |
| | 23.3 | 60 | 896 | 10185 | 1.0 | NMRV110 132B5 | 132S6 |
| | 17.5 | 80 | 1113 | 11210 | 0.8 | | |
| | 90 | 10 | 277 | 6494 | 3.5 | | |
| | 60 | 15 | 406 | 7434 | 2.6 | | |
| | 45 | 20 | 528 | 8182 | 2.0 | | |
| | 36 | 25 | 645 | 8814 | 1.6 | | |
| | 30 | 30 | 735 | 9366 | 1.6 | | |
| | 22.5 | 40 | 942 | 10309 | 1.2 | | |
| | 28 | 50 | 778 | 13103 | 1.8 | | |
| | 23.3 | 60 | 896 | 13924 | 1.4 | | |
| | 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV130 100B5 | 100L2-4 |
| | 14.0 | 100 | 1310 | 16508 | 0.8 | | |
| | 90 | 10 | 277 | 6494 | 3.5 | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | 528 | 8182 | 2.0 | | | |
| 36 | 25 | 645 | 8814 | 1.6 | | | |
| 30 | 30 | 735 | 9366 | 1.6 | | | |
| 22.5 | 40 | 942 | 10309 | 1.2 | | | |
| 28 | 50 | 778 | 13103 | 1.8 | | | |
| 23.3 | 60 | 896 | 13924 | 1.4 | | | |
| 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV130 132B5 | 132S6 | |
| 14.0 | 100 | 1310 | 16508 | 0.8 | | | |
| 90 | 10 | 277 | 6494 | 3.5 | | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | 528 | 8182 | 2.0 | | | |
| 36 | 25 | 645 | 8814 | 1.6 | | | |
| 30 | 30 | 735 | 9366 | 1.6 | | | |
| 22.5 | 40 | 942 | 10309 | 1.2 | | | |
| 28 | 50 | 778 | 13103 | 1.8 | | | |
| 23.3 | 60 | 896 | 13924 | 1.4 | | | |
| 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV150 100B5 | 100L2-4 | |
| 14.0 | 100 | 1310 | 16508 | 0.8 | | | |
| 90 | 10 | 277 | 6494 | 3.5 | | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | 528 | 8182 | 2.0 | | | |
| 36 | 25 | 645 | 8814 | 1.6 | | | |
| 30 | 30 | 735 | 9366 | 1.6 | | | |
| 22.5 | 40 | 942 | 10309 | 1.2 | | | |
| 28 | 50 | 778 | 13103 | 1.8 | | | |
| 23.3 | 60 | 896 | 13924 | 1.4 | | | |
| 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV150 132B5 | 132S6 | |
| 14.0 | 100 | 1310 | 16508 | 0.8 | | | |
| 90 | 10 | 277 | 6494 | 3.5 | | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | 528 | 8182 | 2.0 | | | |
| 36 | 25 | 645 | 8814 | 1.6 | | | |
| 30 | 30 | 735 | 9366 | 1.6 | | | |
| 22.5 | 40 | 942 | 10309 | 1.2 | | | |
| 28 | 50 | 778 | 13103 | 1.8 | | | |
| 23.3 | 60 | 896 | 13924 | 1.4 | | | |
| 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV150 100B5 | 100L2-4 | |
| 14.0 | 100 | 1310 | 16508 | 0.8 | | | |
| 90 | 10 | 277 | 6494 | 3.5 | | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | 528 | 8182 | 2.0 | | | |
| 36 | 25 | 645 | 8814 | 1.6 | | | |
| 30 | 30 | 735 | 9366 | 1.6 | | | |
| 22.5 | 40 | 942 | 10309 | 1.2 | | | |
| 28 | 50 | 778 | 13103 | 1.8 | | | |
| 23.3 | 60 | 896 | 13924 | 1.4 | | | |
| 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV150 132B5 | 132S6 | |
| 14.0 | 100 | 1310 | 16508 | 0.8 | | | |
| 90 | 10 | 277 | 6494 | 3.5 | | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | 528 | 8182 | 2.0 | | | |
| 36 | 25 | 645 | 8814 | 1.6 | | | |
| 30 | 30 | 735 | 9366 | 1.6 | | | |
| 22.5 | 40 | 942 | 10309 | 1.2 | | | |
| 28 | 50 | 778 | 13103 | 1.8 | | | |
| 23.3 | 60 | 896 | 13924 | 1.4 | | | |
| 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV150 100B5 | 100L2-4 | |
| 14.0 | 100 | 1310 | 16508 | 0.8 | | | |
| 90 | 10 | 277 | 6494 | 3.5 | | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | 528 | 8182 | 2.0 | | | |
| 36 | 25 | 645 | 8814 | 1.6 | | | |
| 30 | 30 | 735 | 9366 | 1.6 | | | |
| 22.5 | 40 | 942 | 10309 | 1.2 | | | |
| 28 | 50 | 778 | 13103 | 1.8 | | | |
| 23.3 | 60 | 896 | 13924 | 1.4 | | | |
| 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV150 132B5 | 132S6 | |
| 14.0 | 100 | 1310 | 16508 | 0.8 | | | |
| 90 | 10 | 277 | 6494 | 3.5 | | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | 528 | 8182 | 2.0 | | | |
| 36 | 25 | 645 | 8814 | 1.6 | | | |
| 30 | 30 | 735 | 9366 | 1.6 | | | |
| 22.5 | 40 | 942 | 10309 | 1.2 | | | |
| 28 | 50 | 778 | 13103 | 1.8 | | | |
| 23.3 | 60 | 896 | 13924 | 1.4 | | | |
| 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV150 100B5 | 100L2-4 | |
| 14.0 | 100 | 1310 | 16508 | 0.8 | | | |
| 90 | 10 | 277 | 6494 | 3.5 | | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | 528 | 8182 | 2.0 | | | |
| 36 | 25 | 645 | 8814 | 1.6 | | | |
| 30 | 30 | 735 | 9366 | 1.6 | | | |
| 22.5 | 40 | 942 | 10309 | 1.2 | | | |
| 28 | 50 | 778 | 13103 | 1.8 | | | |
| 23.3 | 60 | 896 | 13924 | 1.4 | | | |
| 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV150 132B5 | 132S6 | |
| 14.0 | 100 | 1310 | 16508 | 0.8 | | | |
| 90 | 10 | 277 | 6494 | 3.5 | | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | 528 | 8182 | 2.0 | | | |
| 36 | 25 | 645 | 8814 | 1.6 | | | |
| 30 | 30 | 735 | 9366 | 1.6 | | | |
| 22.5 | 40 | 942 | 10309 | 1.2 | | | |
| 28 | 50 | 778 | 13103 | 1.8 | | | |
| 23.3 | 60 | 896 | 13924 | 1.4 | | | |
| 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV150 100B5 | 100L2-4 | |
| 14.0 | 100 | 1310 | 16508 | 0.8 | | | |
| 90 | 10 | 277 | 6494 | 3.5 | | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | 528 | 8182 | 2.0 | | | |
| 36 | 25 | 645 | 8814 | 1.6 | | | |
| 30 | 30 | 735 | 9366 | 1.6 | | | |
| 22.5 | 40 | 942 | 10309 | 1.2 | | | |
| 28 | 50 | 778 | 13103 | 1.8 | | | |
| 23.3 | 60 | 896 | 13924 | 1.4 | | | |
| 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV150 132B5 | 132S6 | |
| 14.0 | 100 | 1310 | 16508 | 0.8 | | | |
| 90 | 10 | 277 | 6494 | 3.5 | | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | 528 | 8182 | 2.0 | | | |
| 36 | 25 | 645 | 8814 | 1.6 | | | |
| 30 | 30 | 735 | 9366 | 1.6 | | | |
| 22.5 | 40 | 942 | 10309 | 1.2 | | | |
| 28 | 50 | 778 | 13103 | 1.8 | | | |
| 23.3 | 60 | 896 | 13924 | 1.4 | | | |
| 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV150 100B5 | 100L2-4 | |
| 14.0 | 100 | 1310 | 16508 | 0.8 | | | |
| 90 | 10 | 277 | 6494 | 3.5 | | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | 528 | 8182 | 2.0 | | | |
| 36 | 25 | 645 | 8814 | 1.6 | | | |
| 30 | 30 | 735 | 9366 | 1.6 | | | |
| 22.5 | 40 | 942 | 10309 | 1.2 | | | |
| 28 | 50 | 778 | 13103 | 1.8 | | | |
| 23.3 | 60 | 896 | 13924 | 1.4 | | | |
| 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV150 132B5 | 132S6 | |
| 14.0 | 100 | 1310 | 16508 | 0.8 | | | |
| 90 | 10 | 277 | 6494 | 3.5 | | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | 528 | 8182 | 2.0 | | | |
| 36 | 25 | 645 | 8814 | 1.6 | | | |
| 30 | 30 | 735 | 9366 | 1.6 | | | |
| 22.5 | 40 | 942 | 10309 | 1.2 | | | |
| 28 | 50 | 778 | 13103 | 1.8 | | | |
| 23.3 | 60 | 896 | 13924 | 1.4 | | | |
| 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV150 100B5 | 100L2-4 | |
| 14.0 | 100 | 1310 | 16508 | 0.8 | | | |
| 90 | 10 | 277 | 6494 | 3.5 | | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | 528 | 8182 | 2.0 | | | |
| 36 | 25 | 645 | 8814 | 1.6 | | | |
| 30 | 30 | 735 | 9366 | 1.6 | | | |
| 22.5 | 40 | 942 | 10309 | 1.2 | | | |
| 28 | 50 | 778 | 13103 | 1.8 | | | |
| 23.3 | 60 | 896 | 13924 | 1.4 | | | |
| 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV150 132B5 | 132S6 | |
| 14.0 | 100 | 1310 | 16508 | 0.8 | | | |
| 90 | 10 | 277 | 6494 | 3.5 | | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | 528 | 8182 | 2.0 | | | |
| 36 | 25 | 645 | 8814 | 1.6 | | | |
| 30 | 30 | 735 | 9366 | 1.6 | | | |
| 22.5 | 40 | 942 | 10309 | 1.2 | | | |
| 28 | 50 | 778 | 13103 | 1.8 | | | |
| 23.3 | 60 | 896 | 13924 | 1.4 | | | |
| 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV150 100B5 | 100L2-4 | |
| 14.0 | 100 | 1310 | 16508 | 0.8 | | | |
| 90 | 10 | 277 | 6494 | 3.5 | | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | 528 | 8182 | 2.0 | | | |
| 36 | 25 | 645 | 8814 | 1.6 | | | |
| 30 | 30 | 735 | 9366 | 1.6 | | | |
| 22.5 | 40 | 942 | 10309 | 1.2 | | | |
| 28 | 50 | 778 | 13103 | 1.8 | | | |
| 23.3 | 60 | 896 | 13924 | 1.4 | | | |
| 17.5 | 80 | 1113 | 15325 | 1.0 | NMRV150 132B5 | 132S6 | |
| 14.0 | 100 | 1310 | 16508 | 0.8 | | | |
| 90 | 10 | 277 | 6494 | 3.5 | | | |
| 60 | 15 | 406 | 7434 | 2.6 | | | |
| 45 | 20 | | | | | | |

| P_{in} (kw) | n_2 (r/min) | i | M_{2n} (Nm) | F_{t2} (N) | fs | | | |
|------------------|------------------|-----|------------------|-----------------|------|---------|-------|-------|
| 7.5 | 46.7 | 30 | 1274 | 11051 | 0.9 | NMRV150 | 132B5 | 132M4 |
| | 35 | 40 | 1596 | 12163 | 1.0 | | | |
| 11 | 186.7 | 7.5 | 512 | 6962 | 2.3 | NMRV150 | 160B5 | 160M4 |
| | 140 | 10 | 675 | 7663 | 1.8 | | | |
| | 93.3 | 15 | 990 | 8771 | 1.3 | | | |
| | 70.0 | 20 | 1291 | 9654 | 1.0 | | | |
| | 56.0 | 25 | 1576 | 10400 | 0.8 | | | |
| 15 | 186.7 | 7.5 | 698 | 6962 | 1.7 | NMRV150 | 160B5 | 160L4 |
| | 140 | 10 | 921 | 7663 | 1.3 | | | |
| | 93.3 | 15 | 1351 | 8771 | 0.9 | | | |
| | 70.0 | 20 | 1760 | 9654 | 0.7 | | | |

减速机安装方位 / GEAR BOX INSTALLATION POSITION

NMRV与电机安装方位 / NMRV AND MOTOR MOUNTING POSITION



注: 如在订货时无特别说明, 将按B3安装方式供货。
Note: if there is no special instructions to B3 standards for installation.

NMRV配件系列 / NMRV ACCESSORIES SERIES

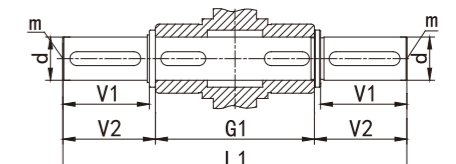
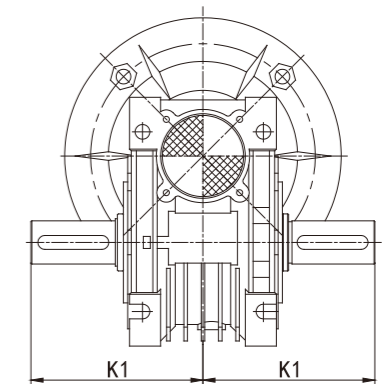
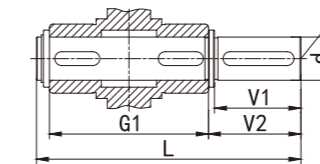
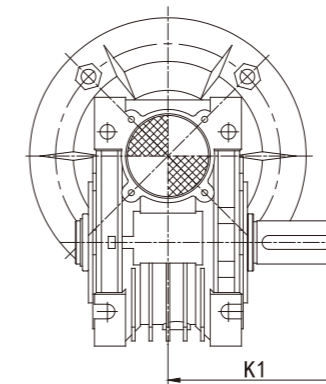
输出轴尺寸 / OUTPUT SHAFT SIZE



单向输出轴 (DZ)



双向输出轴 (SZ)



| NMRV | G1 | K1 | L | L1 | b2 | t2 | d(h6) | m | V1 | V2 |
|------|-----|-------|-----|-----|----|------|-------|-----|----|------|
| 030 | 63 | 64 | 102 | 128 | 5 | 16 | 14 | M6 | 30 | 32.5 |
| 040 | 78 | 82 | 128 | 164 | 6 | 20.5 | 18 | M6 | 40 | 43 |
| 050 | 92 | 99.5 | 153 | 199 | 8 | 28 | 25 | M10 | 50 | 53.5 |
| 063 | 112 | 109.5 | 173 | 219 | 8 | 28 | 25 | M10 | 50 | 53.5 |
| 075 | 120 | 123.5 | 192 | 247 | 8 | 31 | 28 | M10 | 60 | 63.5 |
| 090 | 140 | 154.5 | 234 | 309 | 10 | 38 | 35 | M12 | 80 | 84.5 |
| 110 | 155 | 162 | 249 | 324 | 12 | 45 | 42 | M16 | 80 | 84.5 |
| 130 | 170 | 170 | 265 | 340 | 14 | 48.5 | 45 | M16 | 80 | 85 |
| 150 | 200 | 187 | 297 | 374 | 14 | 53.5 | 50 | M16 | 82 | 87 |

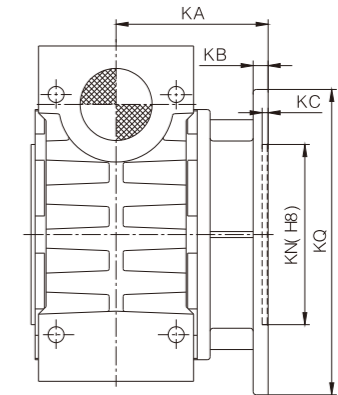
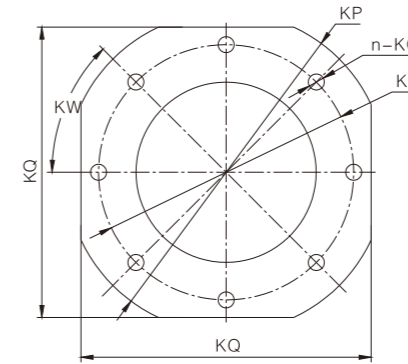
NMRV配件系列 / NMRV ACCESSORIES SERIES

输出法兰 (F) 尺寸 / OUTPUT FLANGE DIMENSIONS (F)



NMRV配件系列 / NMRV ACCESSORIES SERIES

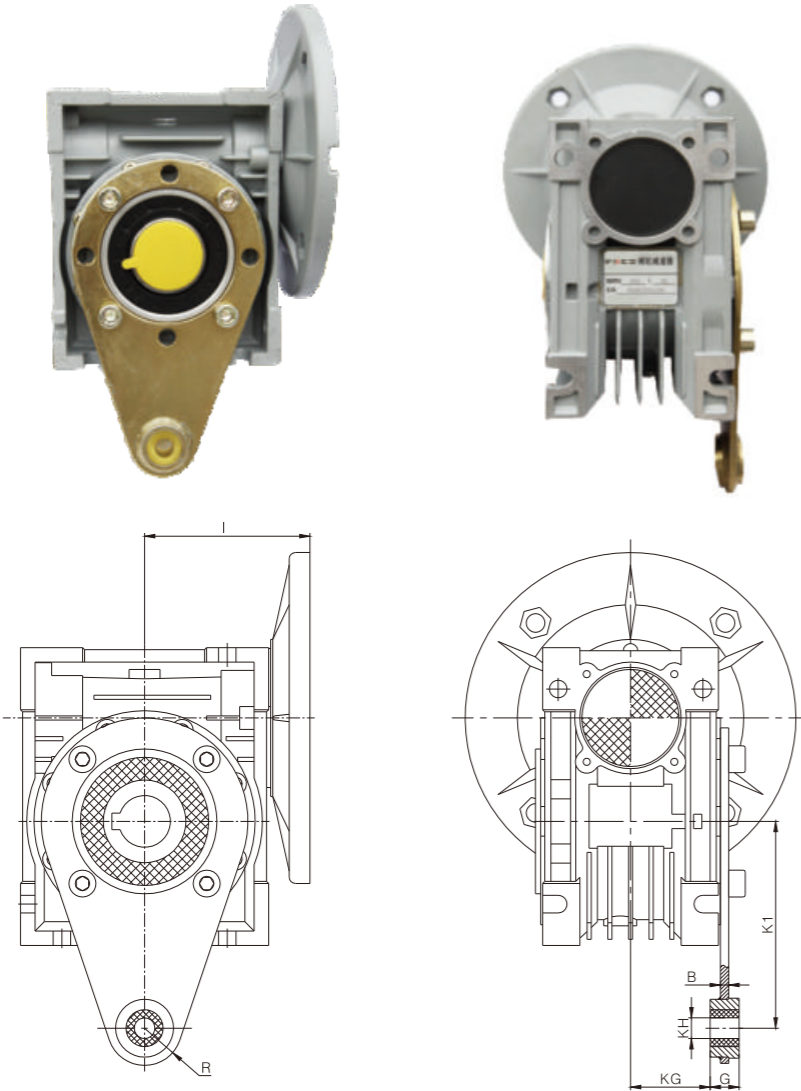
输出法兰 (F) 尺寸 / OUTPUT FLANGE DIMENSIONS (F)



| NMRV | | 030 | 040 | 050 | 063 | 075 | 090 | 110 | 130 | 150 |
|------|----|----------|----------|----------|---------|---------|---------|---------|---------|---------|
| FA | KA | 54.5 | 67 | 90 | 82 | 111 | 111 | 139 | 152 | 155 |
| | KB | 6 | 7 | 9 | 10 | 13 | 13 | 15 | 15 | 15 |
| | KC | 4 | 4 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |
| | KN | 50 | 60 | 70 | 115 | 130 | 152 | 170 | 180 | 180 |
| | KM | 68 | 75 | 85 | 150 | 165 | 175 | 230 | 255 | 255 |
| | KO | 6.5(n=4) | 9(n=4) | 11(n=4) | 11(n=4) | 14(n=4) | 14(n=4) | 14(n=8) | 16(n=8) | 16(n=8) |
| | KP | 80 | 110 | 125 | 180 | 200 | 210 | 280 | 320 | 320 |
| | KQ | 70 | 95 | 110 | 142 | 170 | 200 | 260 | 290 | 290 |
| | KW | 45° | 45° | 45° | 45° | 45° | 45° | 45° | 45° | 45° |
| FB | KA | - | 97 | 120 | 112 | - | 122 | - | - | - |
| | KB | - | 7 | 9 | 10 | - | 18 | - | - | - |
| | KC | - | 4 | 5 | 6 | - | 6 | - | - | - |
| | KN | - | 60 | 70 | 115 | - | 180 | - | - | - |
| | KM | - | 75 | 85 | 150 | - | 215 | - | - | - |
| | KO | - | 9(n=4) | 11(n=4) | 11(n=4) | - | 14(n=4) | - | - | - |
| | KP | - | 110 | 125 | 180 | - | 250 | - | - | - |
| | KQ | - | 95 | 110 | 142 | - | - | - | - | - |
| | KW | - | 45° | 45° | 45° | - | 45° | - | - | - |
| FC | KA | - | 80 | 89 | 98 | - | 110 | - | - | - |
| | KB | - | 9 | 10 | 10 | - | 17 | - | - | - |
| | KC | - | 5 | 5 | 5 | - | 6 | - | - | - |
| | KN | - | 95 | 110 | 130 | - | 130 | - | - | - |
| | KM | - | 115 | 130 | 165 | - | 165 | - | - | - |
| | KO | - | 9.5(n=4) | 9.5(n=4) | 11(n=4) | - | 11(n=4) | - | - | - |
| | KP | - | 140 | 160 | 200 | - | 200 | - | - | - |
| | KQ | - | 45° | 45° | 45° | - | 45° | - | - | - |
| | KW | - | 45° | 45° | 45° | - | 45° | - | - | - |
| FD | KA | - | 58 | 72 | 107 | - | 151 | - | - | - |
| | KB | - | 12 | 14.5 | 10 | - | 13 | - | - | - |
| | KC | - | 5 | 5 | 5 | - | 6 | - | - | - |
| | KN | - | 80 | 95 | 130 | - | 152 | - | - | - |
| | KM | - | 100 | 115 | 165 | - | 175 | - | - | - |
| | KO | - | 9(n=4) | 11(n=4) | 11(n=4) | - | 14(n=4) | - | - | - |
| | KP | - | 120 | 140 | 200 | - | 210 | - | - | - |
| | KQ | - | 45° | 45° | 45° | - | 45° | - | - | - |
| | KW | - | 45° | 45° | 45° | - | 45° | - | - | - |
| FE | KA | - | - | - | 80.5 | - | - | - | - | - |
| | KB | - | - | - | 16.5 | - | - | - | - | - |
| | KC | - | - | - | 5 | - | - | - | - | - |
| | KN | - | - | - | 110 | - | - | - | - | - |
| | KM | - | - | - | 130 | - | - | - | - | - |
| | KO | - | - | - | 11(n=4) | - | - | - | - | - |
| | KP | - | - | - | 160 | - | - | - | - | - |
| | KQ | - | - | - | 45° | - | - | - | - | - |
| | KW | - | - | - | 45° | - | - | - | - | - |

NMRV配件系列 / NMRV ACCESSORIES SERIES

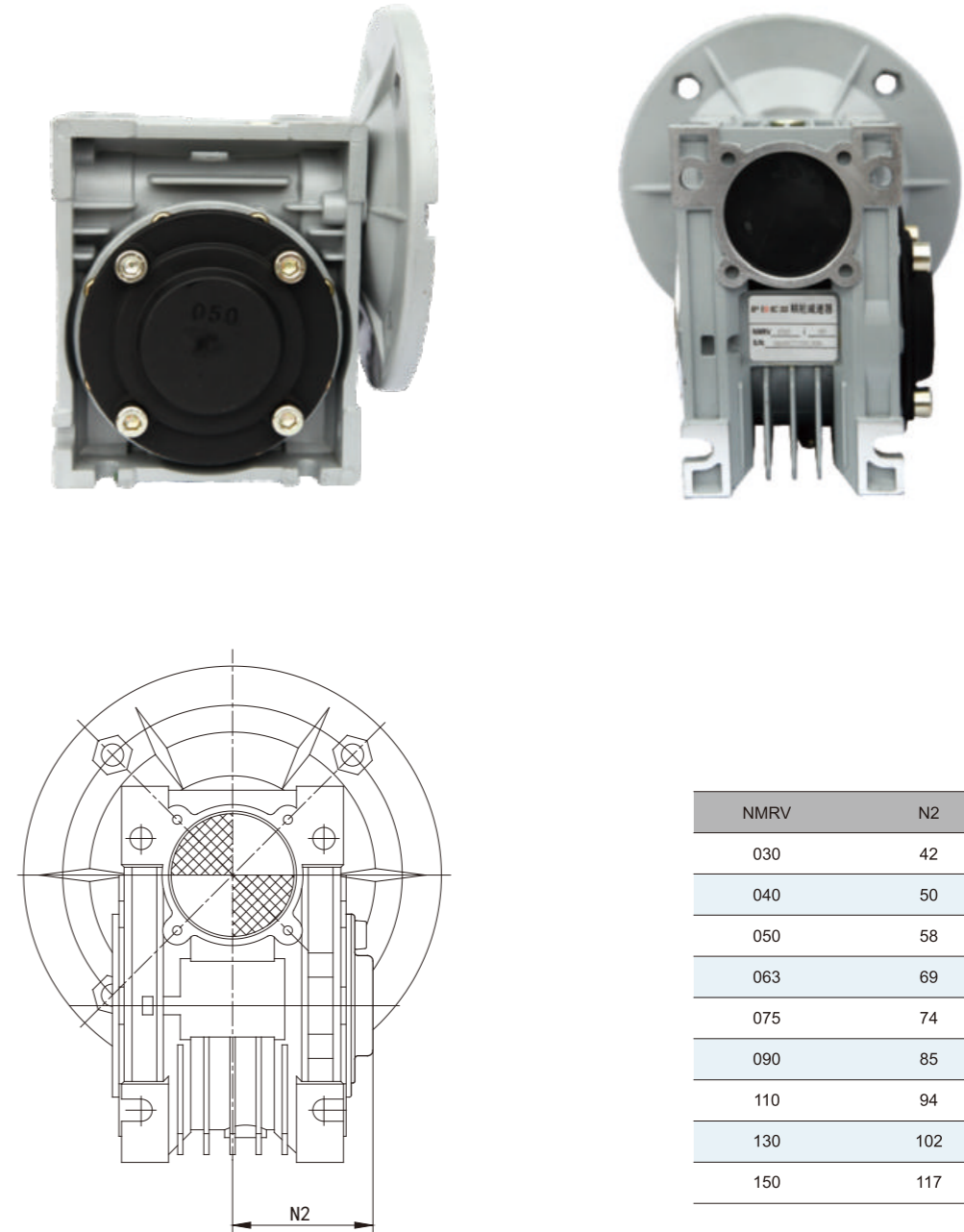
扭力臂 (A) 尺寸 / TORQUE ARM (A) SIZE



| NMRV | B | I | K1 | G | KG | KH | R |
|------|---|-------|-----|----|------|----|----|
| 025 | 4 | 45 | 70 | 14 | 17.5 | 8 | 15 |
| 030 | 4 | 55 | 85 | 14 | 24 | 8 | 15 |
| 040 | 4 | 70 | 100 | 14 | 31.5 | 10 | 18 |
| 050 | 4 | 80 | 100 | 14 | 38.5 | 10 | 18 |
| 063 | 6 | 95 | 150 | 14 | 49 | 10 | 18 |
| 075 | 6 | 112.5 | 200 | 25 | 47.5 | 20 | 30 |
| 090 | 6 | 129.5 | 200 | 25 | 57.5 | 20 | 30 |
| 110 | 6 | 160 | 250 | 30 | 62 | 25 | 35 |
| 130 | 6 | 179 | 250 | 30 | 69 | 25 | 35 |
| 150 | 8 | 210 | 250 | 30 | 84 | 25 | 35 |

NMRV配件系列 / NMRV ACCESSORIES SERIES

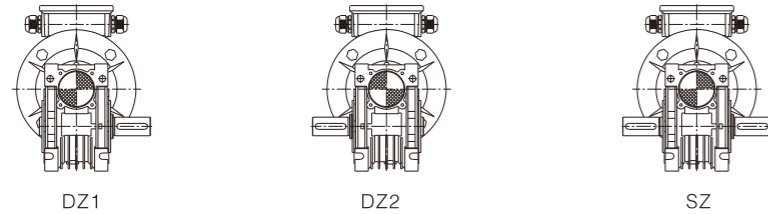
防尘盖尺寸 / DUST COVER SIZE



| NMRV | N2 |
|------|-----|
| 030 | 42 |
| 040 | 50 |
| 050 | 58 |
| 063 | 69 |
| 075 | 74 |
| 090 | 85 |
| 110 | 94 |
| 130 | 102 |
| 150 | 117 |

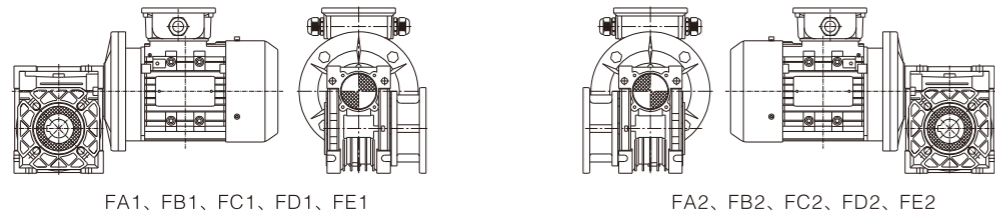
配件安装方位 / ACCESSORIES INSTALLATION POSITION

输出轴位置 / THE OUTPUT SHAFT POSITION



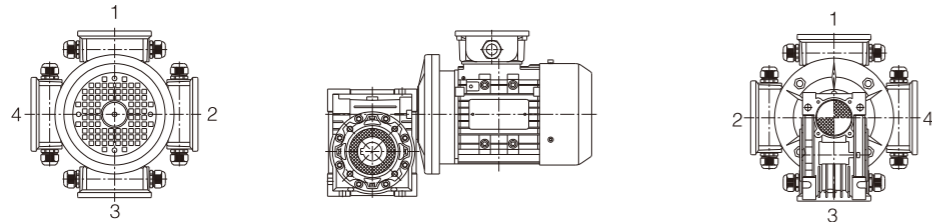
注：如没有特别说明，将按照如图DZ1和B3安装方面的组合样式供货。
Note: If there is no special instructions, will be as shown in figure DZ1 and B3 mounted with respect to the combination of styles available.

输出法兰位置 / OUTPUT FLANGE POSITION



注：如没有特别说明，将按照如图F...1和B3安装方面的组合样式供货。
Note: If there is no special instructions, will be in accordance with the figure F... 1 and B3 mounted with respect to the combination of styles available.

电机接线盒位置 / MOTOR TERMINAL BOX POSITION



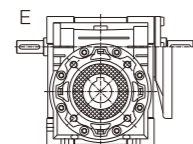
注：如对电机接线盒位置有特别要求，订购时须参考上图的要求指定接线盒方位，否则接线盒方位将按安装方位图表中的方位提供。
Note: If the motor terminal box position have special requirements, when ordering reference is made to the above requirements specified terminal box position, or junction box range according to installation position chart position is provided.

扭力臂(A)位置 / TORQUE ARM (A) POSITION



注：如没有特别说明，将按照如图A1和B3安装方面的组合样式供货。
Note: If there is no special instructions, will be as shown in figure A1 and B3 mounted with respect to the combination of styles available.

尾出轴(E) / TAIL SHAFT (E) POSITION



UDL SERIES
UDL系列
应用领域: 酒水饮料自动化生产

产品概述 / PRODUCTS OVERVIEW

UDL系列无级变速器的设计，融合了国内外的先进技术，产品具有以下特点：

1. 调整精度高：达0.5 - 1转。
2. 变速范围大，输出速比可在1：1.4至1：7之间任意变化。
3. 强度高，寿命长。
4. 调速方便。
5. 可连续工作运转，且可正反方向运转，运转平稳，性能稳定，噪音低。
6. 全密封，对环境要求低。
7. 结构紧凑，体积小。
8. 采取优质铝合金压铸成型，外形美观，重量轻，永不生锈。
9. 适应性好。UDL系列无级变速器可与各种减速机组合，实现低速无级变速。

UDL系列无级变速器可广泛应用于食品、包装、化工、制药、塑料、造纸、机床、交通以及各种需调速的自动生产线、输送线、装配流水线，是您机器上理想的伙伴。

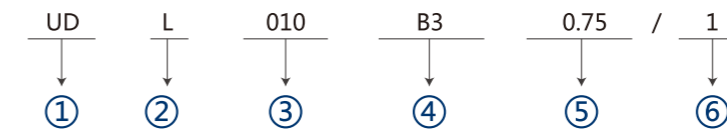
The design of UDL series stepless speed variator compromises the advanced technology both at home and abroad. The products include the following main characteristics:

1. High speed precision: 0.5-1 shaft
2. High speed-changing range: The speed ratio ranges from 1:1.4 to 1:7 freely.
3. High in strength and long in service life.
4. Convenient to regulate the speed.
5. Continuous in running, front-to-back in running direction, smooth in driving, stable in performance and low in noise.
6. Full in sealing and suitable for any environment.
7. Compact in structure and small in volume
8. Made of high-quality aluminium alloy diecast into forming, good-looking in appearance, light in weight and it never gets rusty
9. Good in adaptation: UDL series stepless speed variators can be combined with all kinds of speed reducers, as to achieve low stepless speed-changing.

UDL series stepless speed variators are widely used for foodstuffs, packing, chemicals, pharmacy, plastics, paper-making, machine-tools, transportation, and all kinds of automatic lines, pipelines and assembly lines which need speed regulation. It is a good companion for production.

型号说明 / MODEL ILLUMINATE

无级变速器 STEPLESS SPEED VARIATOR

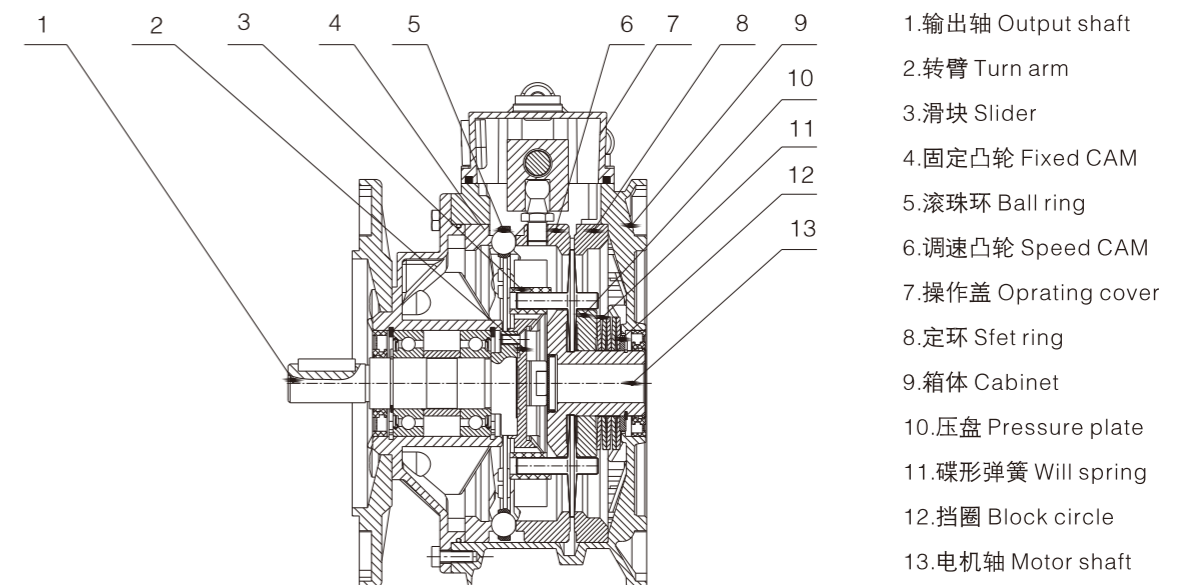


| NO | 说明 | Comments |
|----|--------------------------|--|
| 1 | 无级变速器代号 | Code of stepless speed variator |
| 2 | L: 铝合金机壳 不标注时为铸铁机壳 | L: Aluminium alloy casing No mark means cast iron casing |
| 3 | 无级变速器机座号 | Steat NO. of stepless speed variator |
| 4 | B3: 底脚安装机型 B5: 法兰安装机型 | B3: Foot-mounted model B5: Flange-mounted position |
| 5 | 电机功率 | Motor power |
| 6 | 电机接线盒位置, 默认位置1可以不写 | Position diagram for motor terminal box default position 1 not to write out is ok |

订单时请说明是否带电机，一般按不带电机供应。

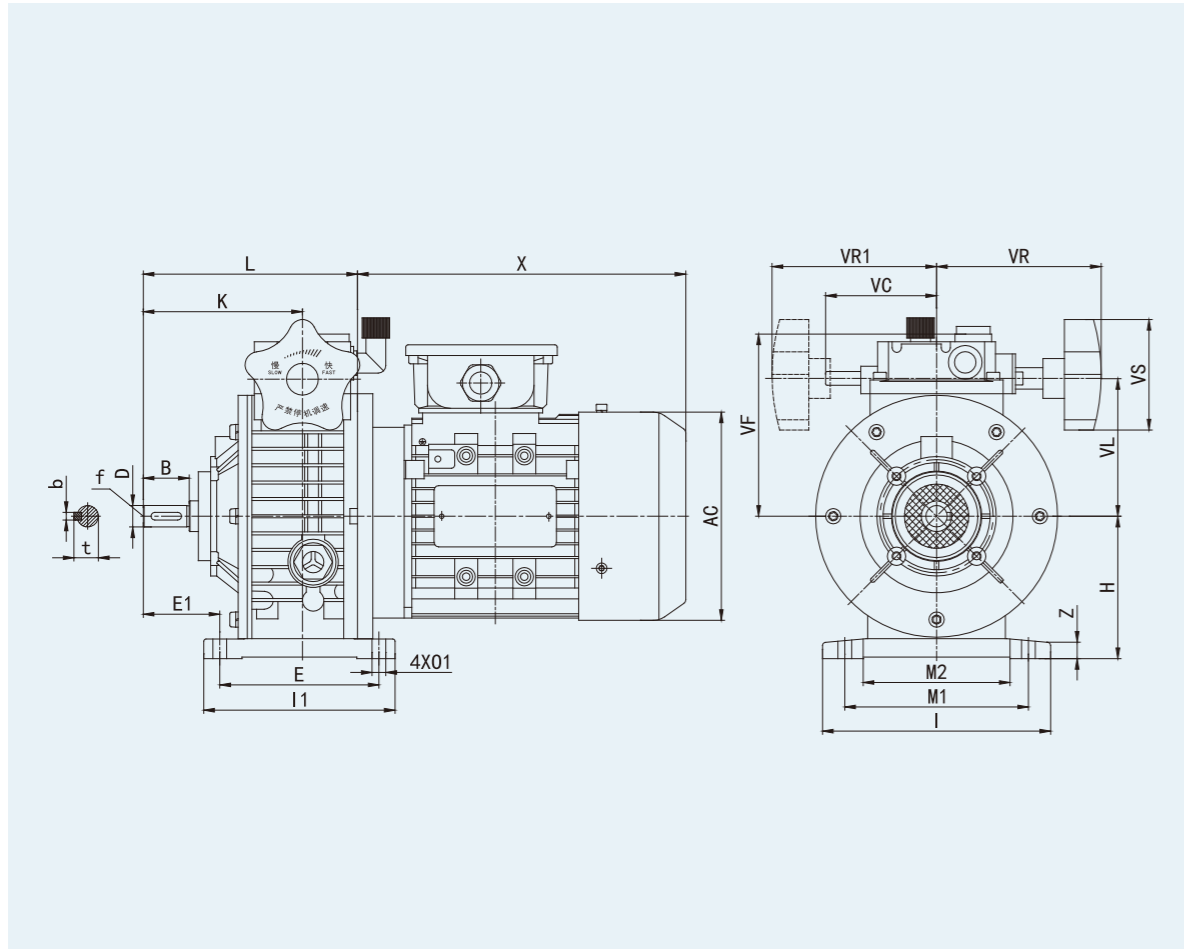
When ordering, you should show whether the reducers are equipped with motors, otherwise reducers aren't supplied with motors.

结构 STRUSTURE



1. 输出轴 Output shaft
2. 转臂 Turn arm
3. 滑块 Slider
4. 固定凸轮 Fixed CAM
5. 滚珠环 Ball ring
6. 调速凸轮 Speed CAM
7. 操作盖 Oprating cover
8. 定环 Sfet ring
9. 箱体 Cabinet
10. 压盘 Pressure plate
11. 碟形弹簧 Will spring
12. 挡圈 Block circle
13. 电机轴 Motor shaft

UDL-B3尺寸 / UDL - B3 SIZE



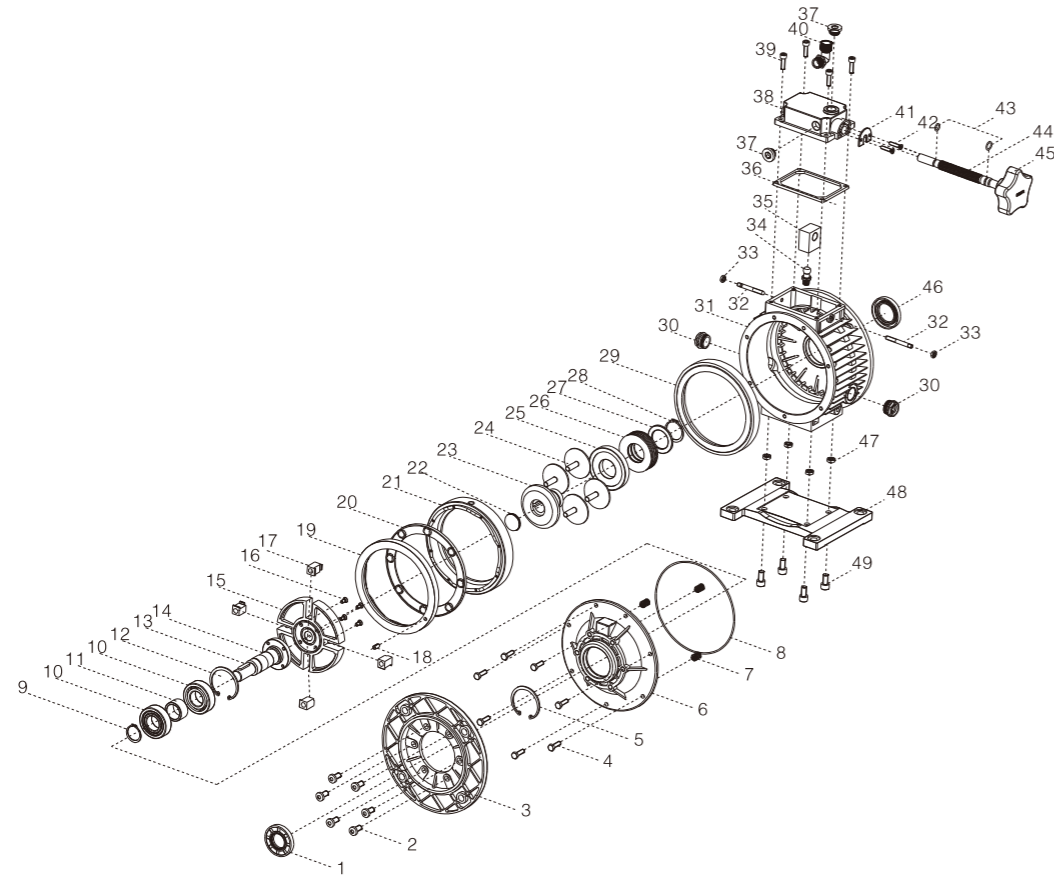
UDL-B3型机座安装形式 / UDL - B3 type frame installation form

| TYPE | B | D(j6) | E | E1 | H | I | I1 | K | L | M1 | M2 | 01 | VC | VF | VL | VR | VR1 | VS | b | t | X | AC | Z |
|---------------|----|-------|-----|-----|-----|-----|-----|-------|-------|-----|-----|----|----|-----|-----|-----|-----|-----|----|------|-----|-----|----|
| UDL002B3-0.18 | 23 | 11 | 105 | 80 | 80 | 145 | 120 | 87.5 | 135.5 | 110 | 71 | | | 111 | 78 | 110 | 110 | | 4 | 12.5 | 194 | 120 | 10 |
| UDL005B3-0.25 | | | | | | | | | | | | 9 | 71 | | | | | 85 | 5 | 16 | 215 | 136 | |
| UDL005B3-0.37 | 30 | 14 | 104 | 93 | 93 | 149 | 125 | 104 | 140 | 120 | 96 | | | 123 | 90 | 110 | 110 | | 6 | 21.5 | 247 | 155 | 15 |
| UDL010B3-0.55 | | | | | | | | | | | | 11 | 79 | 140 | 107 | 120 | 120 | | | | | | |
| UDL010B3-0.75 | 40 | 19 | 125 | 113 | 113 | 190 | | 125.5 | 179 | 160 | 135 | | | | | | | | 6 | 21.5 | 247 | 155 | 15 |
| UD020B3-1.1 | | | | | | | 150 | | | | | | | | | | | | | | | | |
| UD020B3-1.5 | 50 | 24 | 140 | 123 | 123 | 241 | | 165 | 238 | 180 | 143 | 12 | - | 144 | 122 | 150 | - | | 27 | 260 | 175 | 18 | |
| UD030B3-2.2 | | | | | | | | | | | | | | | | | | 110 | 8 | | 285 | | |
| UD030B3-3.0 | | | | | | | | | | | | | | | | | | | | 31 | 323 | 195 | 25 |
| UD030B3-4.0 | 60 | 28 | 230 | 150 | 150 | 300 | 270 | 191 | 268 | 245 | 190 | 14 | - | 188 | 150 | 160 | - | | | | 341 | 219 | |
| UD050B3-5.5 | | | | | | | | | | | | | | | | | | | | | | | |
| UD050B3-7.5 | 70 | 38 | 250 | 200 | 200 | 365 | 290 | 201 | 319 | 315 | 245 | 18 | - | | 192 | 194 | - | | 10 | 41 | 395 | 258 | 30 |
| | | | | | | | | | | | | | | | | | | | | | 433 | | |

UDL-B5产品介绍 / DL - B5 PRODUCT INTRODUCTION



UDL结构分解图 / UDL STRUCTURE DIAGRAM

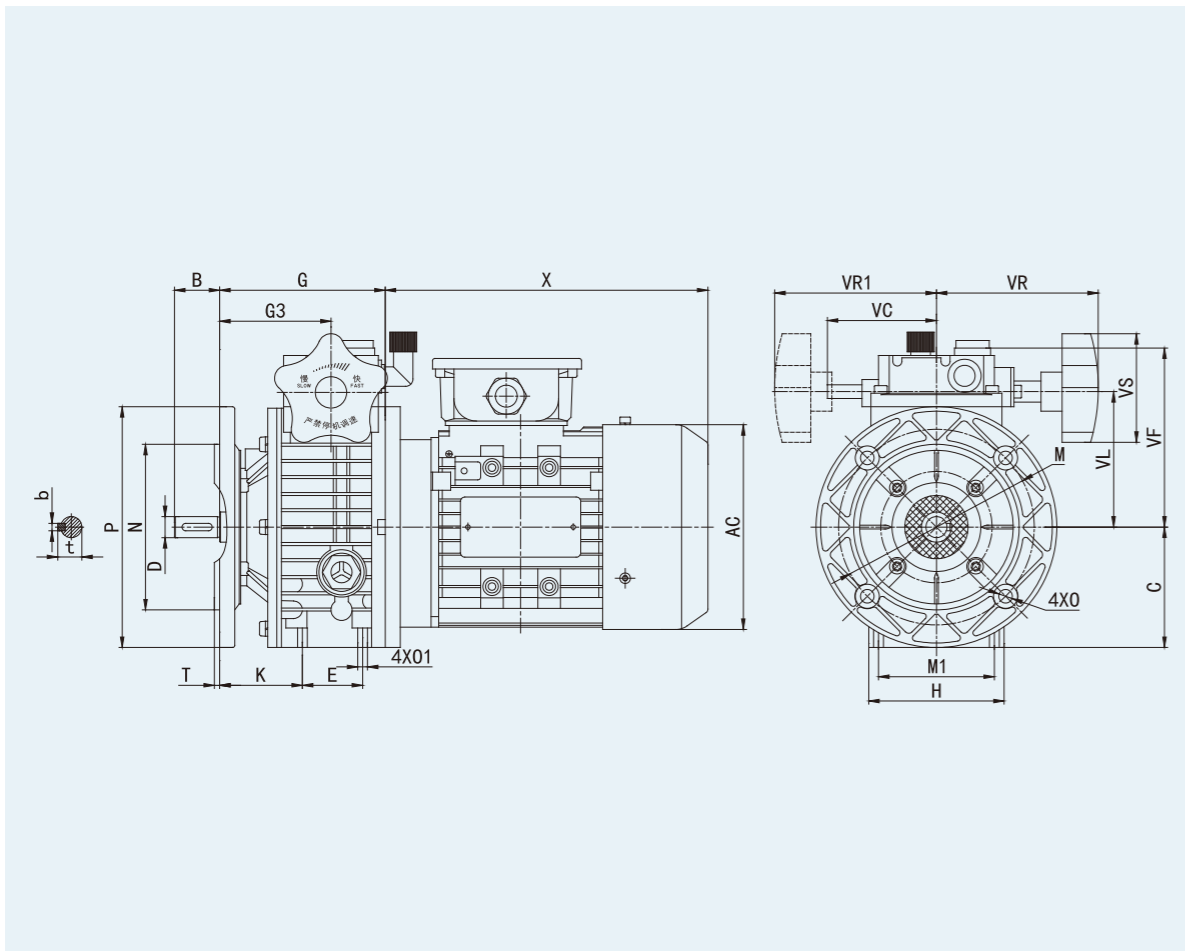


| | | | | | | | | | |
|----|--|----|------------------------------------|----|----------------------------------|----|---|----|---|
| 1 | 油封 (Oil seal) | 11 | 轴承隔套 (Bearing every set of) | 21 | 调速凸轮 (Speed CAM) | 31 | 箱体 (Cabinet) | 41 | 挡板 (Baffle) |
| 2 | 六角圆柱头螺栓 (Hexagonal cylindrical head bolts) | 12 | 孔用挡圈 (Hole block circle in) | 22 | 平面油封 (Plane oil seal) | 32 | 螺栓 (Bolt) | 42 | 螺钉 (Screws) |
| 3 | 输出法兰 (Output flanges) | 13 | 平键 (Parallel key) | 23 | 主动轮 (Active wheel) | 33 | 螺母 (Nut) | 43 | O型橡胶密封圈 (O-ring) |
| 4 | 外六角圆柱头螺栓 (Hexagonal cylindrical head bolts) | 14 | 输出轴 (Output shaft) | 24 | 行星锥盘 (Planet cone-disk) | 34 | 球头调速柄 (Ball head speed control handle) | 44 | 丝杆 (Screw) |
| 5 | 孔用挡圈 (Hole block circle in) | 15 | 转臂 (Turn arm) | 25 | 压盘 (Pressure plate) | 35 | 调速螺母 (Speed nuts) | 45 | 调速柄 (Speed control handle) |
| 6 | 输出端盖 (Output cover) | 16 | 螺钉 (Screws) | 26 | 蝶形弹簧 (Will spring) | 36 | 橡胶垫片 (Rubber gaskets) | 46 | 油封 (Oil seal) |
| 7 | 弹簧 (Spring) | 17 | 滑块 (Slider) | 27 | 挡圈 (Block circle) | 37 | 油塞 (Oil plug) | 47 | 螺母 (Nut) |
| 8 | O型橡胶密封圈 (O-ring) | 18 | 弹性圆柱销 (Elastic cylindrical pin) | 28 | 轴用挡圈 (Shaft block) | 38 | 操作盖 (Operating cover) | 48 | 底脚 (Foot bottom) |
| 9 | 轴用挡圈 (Shaft block) | 19 | 固定凸轮 (Fixed CAM) | 29 | 定环 (Set ring) | 39 | 内六角圆柱头螺栓 (Inside hexagonal cylindrical head bolts) | 49 | 内六角圆柱头螺栓 (Inside hexagonal cylindrical head bolts) |
| 10 | 轴承 (bearing) | 20 | 滚珠环 (Ball ring) | 30 | 视油镜 (Depending on oil mirror) | 40 | 弯管 (Bent pipe) | | |

UDL-B3产品介绍 / UDL-B3 PRODUCT INTRODUCTION



UDL-B5尺寸 / UDL - B5 SIZE



UDL-B5型机座安装形式 / UDL - B5 type frame installation form

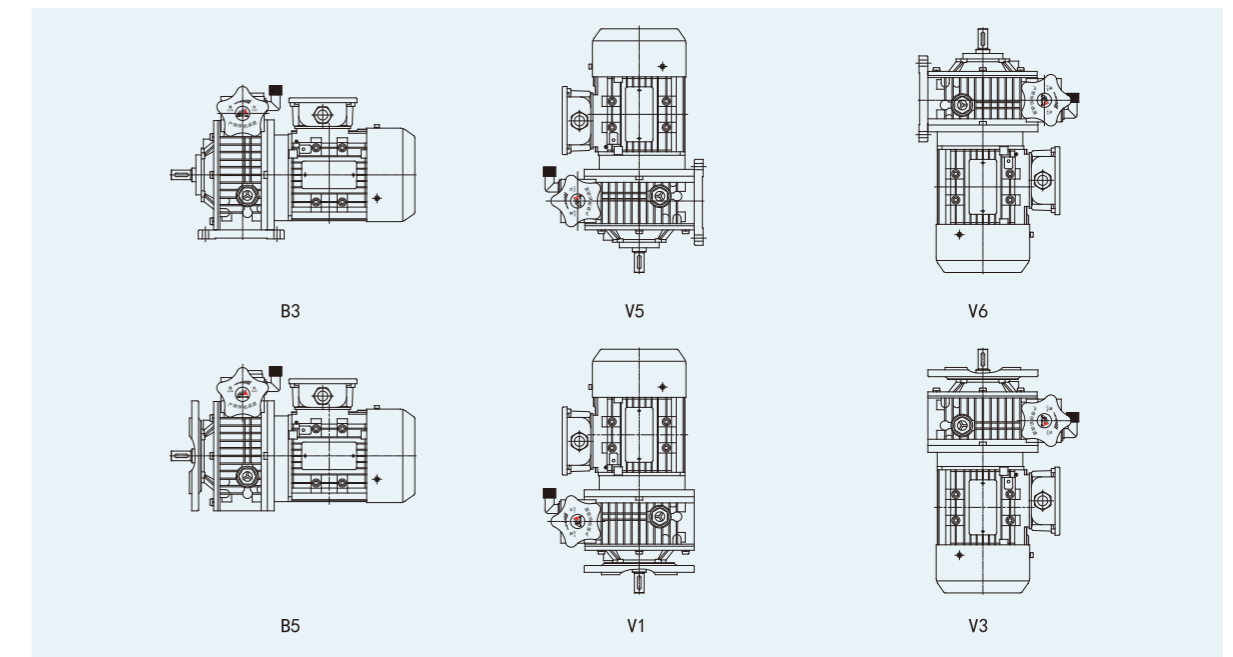
| TYPE | B | C | D(j6) | E | G | G3 | H | M | M1 | O | O1 | P | T | K | VC | VF | VL | VR | VR1 | b | t | X | AC | N |
|---------------|----|-----|-------|----|-------|------|-----|-----|----|----|----|-----|-----|----|-----|-----|-----|-----|-----|----|------|-----|-----|-----|
| UDL002B5-0.18 | 23 | 70 | 11 | 50 | 112.5 | 64.5 | 72 | 115 | 60 | 9 | M6 | 140 | 3.5 | 46 | 71 | 111 | 78 | 110 | 110 | 4 | 12.5 | 194 | 120 | 95 |
| UDL005B5-0.25 | 30 | 80 | 14 | 40 | 110 | 74 | 90 | 130 | 77 | 9 | M8 | 160 | | 53 | 71 | 123 | 90 | 110 | 110 | 5 | 16 | 215 | 136 | 110 |
| UDL005B5-0.37 | 30 | 80 | 14 | 40 | 110 | 74 | 90 | 130 | 77 | 9 | M8 | 160 | | 60 | 79 | 140 | 107 | 120 | 120 | 6 | 21.5 | 247 | 155 | 130 |
| UDL010B5-0.55 | 40 | 100 | 19 | 58 | 139 | 85.5 | 98 | 165 | 84 | 11 | M8 | 200 | 4 | - | - | 144 | 122 | 150 | - | 8 | 27 | 260 | 175 | 130 |
| UDL010B5-0.75 | 40 | 100 | 19 | 58 | 139 | 85.5 | 98 | 165 | 84 | 11 | M8 | 200 | | 31 | 323 | 195 | 230 | | | | | | | |
| UD020B5-1.1 | 50 | 109 | 24 | - | 188 | 115 | 241 | 165 | - | 11 | - | 250 | 4 | - | - | 188 | 150 | 160 | - | 8 | 31 | 341 | 219 | 230 |
| UD020B5-1.5 | 50 | 109 | 24 | - | 188 | 115 | 241 | 165 | - | 11 | - | 250 | | 31 | 341 | 219 | 230 | | | | | | | |
| UD030B5-2.2 | 60 | 130 | 28 | - | 208 | 131 | 270 | 215 | - | 15 | - | 250 | | 31 | 341 | 219 | 230 | | | | | | | |
| UD030B5-3.0 | 60 | 130 | 28 | - | 208 | 131 | 270 | 215 | - | 15 | - | 250 | 4 | - | - | 188 | 150 | 160 | - | 8 | 31 | 395 | 258 | 250 |
| UD030B5-4.0 | 60 | 130 | 28 | - | 208 | 131 | 270 | 215 | - | 15 | - | 250 | | 31 | 395 | 258 | 250 | | | | | | | |
| UD050B5-5.5 | 70 | 200 | 38 | - | 244 | 131 | - | 265 | - | 19 | - | 300 | 5 | - | - | 192 | 194 | - | 10 | 41 | 433 | 258 | 250 | |
| UD050B5-7.5 | 70 | 200 | 38 | - | 244 | 131 | - | 265 | - | 19 | - | 300 | 5 | - | - | 192 | 194 | - | 10 | 41 | 433 | 258 | 250 | |

性能参数 / PERFORMANCE PARAMRTER

UDL系列无级变速器性能参数
Performance table for udl series speed variator (n₁=1400r/min)

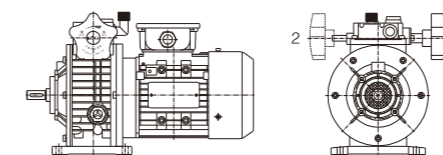
| 电机功率 Motor power | 型号Model | i | n ₂ [r/min] | M ₂ (Nm) |
|------------------|---------|---------|------------------------|---------------------|
| 0.18KW | UDL002 | 1.6~8.2 | 880~170 | 1.5~3 |
| 0.25KW | UDL005 | 1.4~7 | 1000~200 | 2.2~6 |
| 0.37KW | UDL005 | 1.4~7 | 1000~200 | 3~6 |
| 0.55KW | UDL010 | 1.4~7 | 1000~200 | 4~8 |
| 0.75KW | UDL010 | 1.4~7 | 1000~200 | 6~12 |
| 1.1KW | UD020 | 1.4~7 | 1000~200 | 9~18 |
| 1.5KW | UD020 | 1.4~7 | 1000~200 | 12~24 |
| 2.2KW | UD030S | 1.4~7 | 1000~200 | 18~36 |
| 3.0KW | UD030L | 1.4~7 | 1000~200 | 24~48 |
| 4.0KW | UD030L | 1.4~7 | 1000~200 | 32~64 |
| 5.5KW | UD050S | 1.4~7 | 1000~200 | 45~90 |
| 7.5KW | UD050L | 1.4~7 | 1000~200 | 59~118 |

UDL与NMRV安装方位 / UDL AND NMRV INSTALLATION POSITION

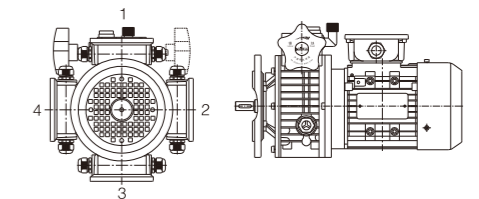


附件位置 / THE ATTACHMENT POSITION

手轮位置 THE POSITION OF THE HAND WHEEL



电机接线盒位置 MOTOR TERMINAL BOX POSITION



注:如没有特别说明,手轮将按照如图1位和B3安装方位的组合方式提供。
Note: if no special note, the handwheel will be in accordance with the figure 1 and B3 installation azimuth combination is provided.

PC

匠心传承 制作精品
FINE FIECE OF CRAFTSMANSHIP

产品概述 / PRODUCTS OVERVIEW

前置斜齿轮减速机 (PC) /PRESTAGE HELICAL GEARED UNITS(PC)

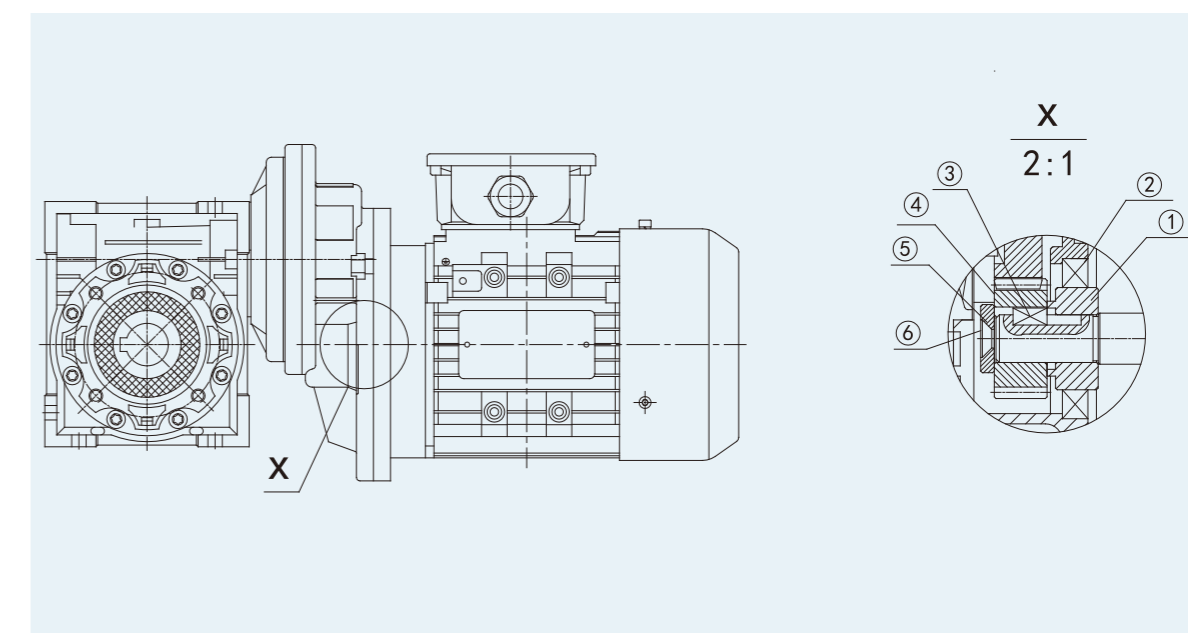
PC前置斜齿轮减速机是一种模块形式结构的产品，它可以与任何一种带有PAM输入法兰孔输入的减速机组合，各种不同的法兰和输出轴可以参照第21页。前置减速装置与马达组合以B14方式输出。该装置不能单独使用，只能与减速机配套使用。

The PC construction is modular and therefore it can be as a separate unit mounted on any type of fitted geared motor(PAM), whose the various possibilities of flange/output shafts can be found on page 21. Fitting the pre-stage helical module on the main reduction unit is easily done as for any motor of type B14. The prestage unit cannot be used by itself, but only coupled with another reducer unit.

材料 MATERIALS

铝合金外壳；齿轮：40Cr，基于渐开线精密制造。

Case in aluminium alloy. Gears:40Cr, machined accurately base on the accurate.



PC SERIES

PC系列

应用领域: 冶金矿山

产品概述 / PRODUCTS OVERVIEW

与电机连接 COUPLING TO ELECTRIC MOTOR

当PC小齿轮安装在电机轴上时，需要注意以下几点：

- a. 彻底清洁好马达驱动轴；
- b. 取出马达驱动轴上的平键；
- c. 按下图所示，把轴套1套在驱动轴上，为了更容易安装，可以把轴套加热至大约70 - 80°C；
- d. 再把新的平键3装在驱动轴键槽上；
- e. 参照c的方法，把小齿轮4套在驱动轴上；
- f. 放上垫片5拧紧螺栓6；
- g. 拿走油封上的橡皮盖，这一步骤需要小心因为PC已经加注了润滑油；
- h. 装上油封2和其余的马达部件，小心不要弄坏油封；

注意：要达到低噪音和小振动的运行效果，建议选用质量较好的马达。

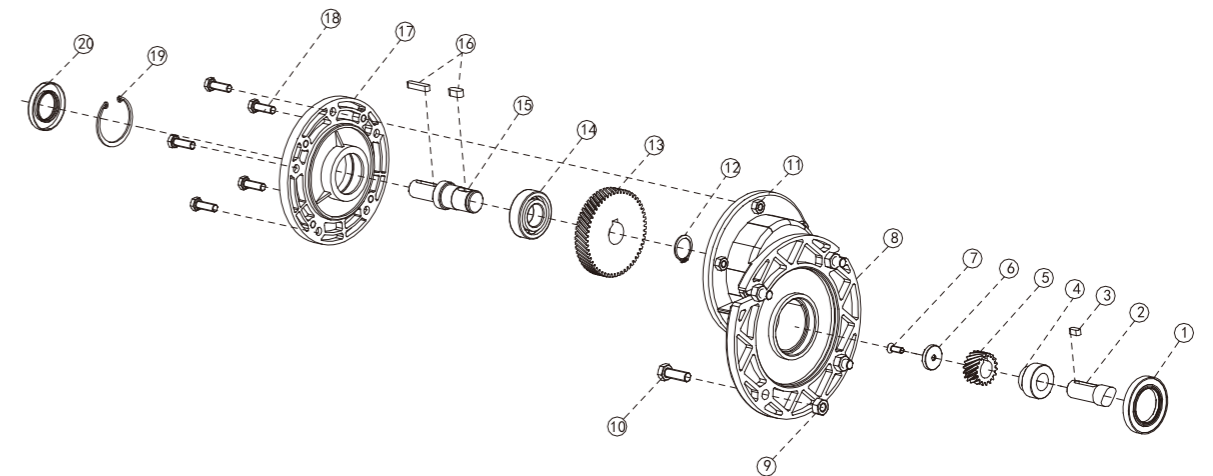
COUPLING TO ELECTRIC MOTOR

correctly fitting the pinion on the electric motor shaft requires you keep to the following instructions ;

- a. Thoroughly clean the electric motor shaft;
- b. Remove the motor key from its seat;
- c. Fit the bush 1 to the drive shaft as shown in the diagram to make this easier, you can heat the bush to approximately 70/80°C ;
- d. Fit the new key3 provided in place of the one removed beforehand;
- e. Fit the pinion 4 taking the same precautions as described in point c;
- f. Fit the washer 5 and tighten with the screw6;
- g. Remove the rubber cap mounted on the seat of the oil seal, taking care since the prestage unit is already complete with lubricant;
- h. Fit the oil seal 2 and then the motor assembly, taking care not to damage the lip of the oil seal.

N.B. For correct operation, with no vibration or noise, it is recommended to use good quality motors

PC结构分解图 / PC STRUCTURE DIAGRAM

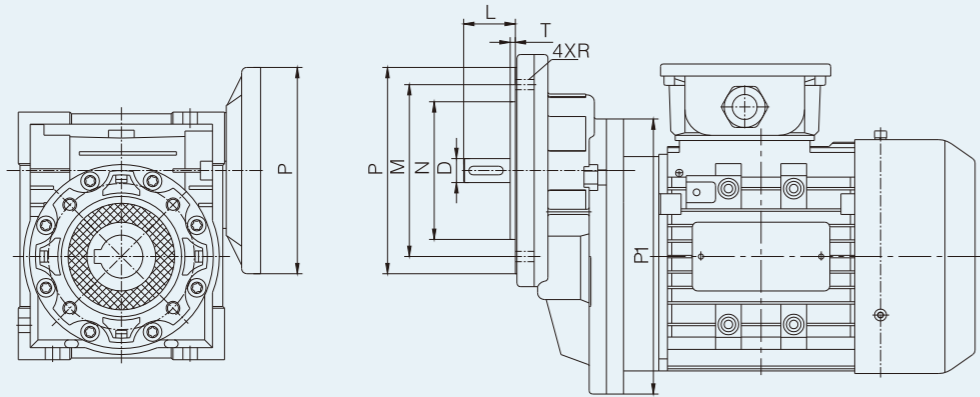


| | | | | | | | |
|---|-----------------------|----|---------------------------------|----|-------------------------------|----|------------------------------|
| 1 | 油封 (Oilseal) | 6 | 垫片 (Shim) | 11 | 六角螺母 (Hexagon nuts) | 16 | 平键 (Parallelkey) |
| 2 | 电机轴 (Shaft PAM) | 7 | 螺栓 (Bolt) | 12 | 轴用弹性挡圈 (Circlip for shaft) | 17 | 输出端盖 (Output cover) |
| 3 | 平键 (Parallelkey) | 8 | 前置齿轮箱体 (Pre-stage unit case) | 13 | 大齿轮 (Gear) | 18 | 螺栓 (Bolt) |
| 4 | 轴套 (Shaft liner) | 9 | 六角螺母 (Hexagon nuts) | 14 | 轴承 (Bearing) | 19 | 孔用弹性挡圈 (Circlip for hole) |
| 5 | 小齿轮 (Small pinion) | 10 | 螺栓 (Bolt) | 15 | 输出轴 (Low speed shaft) | 20 | 油封 (Oilseal) |

产品介绍 / PRODUCT INTRODUCTION



PC接口尺寸 / PC CONNECTION SIZE



| TYPE | D(k6) | N(j6) | M | i | P | P1 | R | T | L |
|-------|-----------|-------|-----|------|-----|-----------|----|---|----|
| PC063 | 11(14) | 70 | 85 | 2.93 | 105 | 140(63B5) | M6 | 3 | 23 |
| PC071 | 14(19) | 80 | 100 | 2.94 | 120 | 160(71B5) | M6 | | 30 |
| PC080 | 19(24/28) | 110 | 130 | 3 | 160 | 200(80B5) | M8 | | 40 |
| PC090 | 24(19/28) | 110 | 130 | 2.45 | 160 | 200(90B5) | M8 | | 50 |

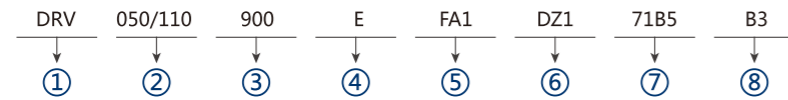


COMBINATION SERIES
组合系列

应用领域: 自动化生产领域

型号说明 / MODEL ILLUMINATE

DRV双蜗轮蜗杆减速机 / COMBINATION WORM GEAR UNITS



| NO | 说明 | Comments |
|----|--|--|
| 1 | 型号代码: DRV双联体蜗轮蜗杆减速机 | Model code: DRV duplex worm reducer |
| 2 | 蜗轮蜗杆减速机中心距(规格) | Central distance of worm gear units (spec) |
| 3 | 减速机速比 | Speed ratio of reducer |
| 4 | 1. 无代号表示不带蜗杆同向尾出轴 2. 带蜗杆同向尾出轴 | 1. No mark means single extension worm shaft 2. E: Double extension worm shaft |
| 5 | 1. 无代号表示不带输出法兰 2. FA, FB, FC, FD, FE (1/2): 输出法兰代号和位置 | 1. No mark means hole output flange 2. FA, FB, FC, FD, FE (1/2): output Flange and position |
| 6 | 1. 无代号表示孔输出 2. DZ(1/2): 单向输出轴和位置 3. SZ: 双向输出轴 | 1. No mark means hole output 2. DZ(1/2): Single output shaft and position 3. SZ: Double output shaft |
| 7 | 输入法兰规格型式 | Normalized form of input flange |
| 8 | 安装方位代号 | Installation position code |

DRV产品介绍 / DRV PRODUCT INTRODUCTION

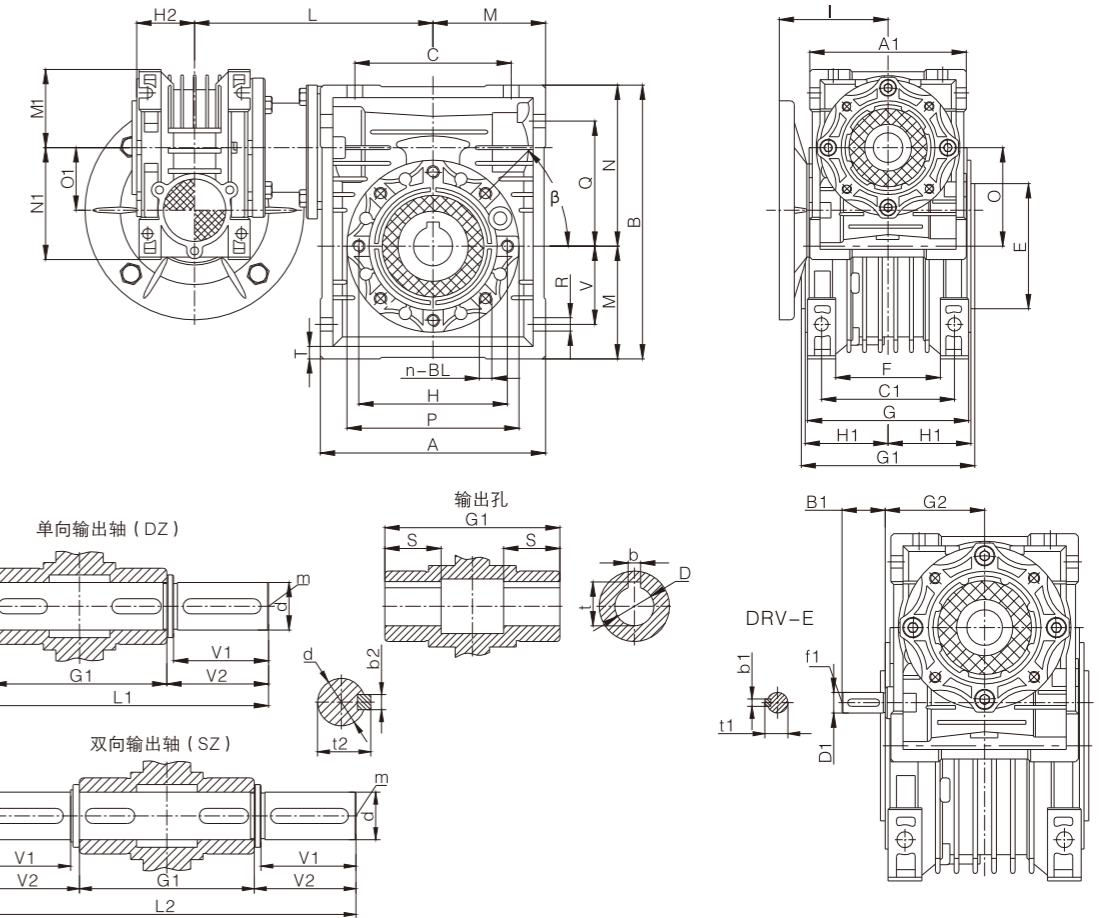


不带电机
without the motor



带电机
with motor

DRV尺寸 / DRV SIZE



| DRV | A | A1 | B | B1 | C | C1 | D(H7) | D1(j6) | E(h8) | F | G | G1 | G2 | H | H1 | H2 | L | L1 | L2 | M | M1 | N | N1 | O | O1 |
|---------|-----|-----|-------|----|-----|-----|--------|--------|-------|----|-----|-----|----|-----|------|------|-------|-----|-----|-------|----|-------|------|-----|----|
| 025-030 | 80 | 70 | 97 | - | 54 | 44 | 14 | - | 55 | 32 | 56 | 63 | - | 65 | 29 | 22.5 | 100 | 102 | 128 | 40 | 35 | 57 | 48 | 30 | 25 |
| 025-040 | 100 | 70 | 121.5 | - | 70 | 60 | 18(19) | - | 60 | 43 | 71 | 78 | - | 75 | 36.5 | 22.5 | 115 | 128 | 164 | 50 | 35 | 71.5 | 48 | 40 | 25 |
| 030-040 | 100 | 80 | 121.5 | 20 | 70 | 60 | 18(19) | 9 | 60 | 43 | 71 | 78 | 51 | 75 | 36.5 | 29 | 120 | 128 | 164 | 50 | 40 | 71.5 | 57 | 40 | 30 |
| 030-050 | 120 | 80 | 144 | 20 | 80 | 70 | 25(24) | 9 | 70 | 49 | 85 | 92 | 51 | 85 | 43.5 | 29 | 130 | 153 | 199 | 60 | 40 | 84 | 57 | 50 | 30 |
| 030-063 | 144 | 80 | 174 | 20 | 100 | 85 | 25(28) | 9 | 80 | 67 | 103 | 112 | 51 | 95 | 53.0 | 29 | 145 | 173 | 219 | 72 | 40 | 102 | 57 | 63 | 30 |
| 040-075 | 172 | 100 | 205 | 23 | 120 | 90 | 28(35) | 11 | 95 | 72 | 112 | 120 | 60 | 115 | 57.0 | 36.5 | 168.5 | 192 | 247 | 86 | 50 | 119 | 71.5 | 75 | 40 |
| 040-090 | 206 | 100 | 238 | 23 | 140 | 100 | 35(38) | 11 | 110 | 74 | 130 | 140 | 60 | 130 | 67.0 | 36.5 | 185.5 | 234 | 309 | 103 | 50 | 135 | 71.5 | 90 | 40 |
| 050-110 | 255 | 120 | 295 | 30 | 170 | 115 | 42 | 14 | 130 | - | 144 | 155 | 74 | 165 | 74.0 | 43.5 | 225 | 249 | 324 | 127.5 | 60 | 167.5 | 84 | 110 | 50 |
| 063-130 | 293 | 144 | 335 | 40 | 200 | 120 | 45 | 19 | 180 | - | 155 | 170 | 90 | 215 | 81.0 | 53 | 249.5 | 265 | 340 | 146.5 | 72 | 187.5 | 102 | 130 | 63 |
| 063-150 | 340 | 144 | 400 | 40 | 240 | 145 | 50 | 19 | 180 | - | 185 | 200 | 90 | 215 | 96 | 53 | 275 | 297 | 374 | 170 | 72 | 230 | 102 | 150 | 63 |

| DRV | P | Q | R | S | T | BL | β | b | b1 | b2 | t | t1 | t2 | d(h6) | f1 | m | V | V1 | V2 | |
|---------|-----|-----|-----|----|-----|----------------|-----|-------|----|----|------------|------|------|-------|----|-----|-----|-----|------|------|
| 025-030 | 75 | 44 | 6.5 | 21 | 5.5 | M6 × 10 (n=4) | 0° | 5 | - | 5 | 16.3 | - | 16 | 14 | - | M6 | 27 | 30 | 32.5 | |
| 025-040 | 87 | 55 | 6.5 | 26 | 6.5 | M6 × 10 (n=4) | 45° | 6 | - | 6 | 20.8(21.8) | - | 20.5 | 18 | - | M6 | 35 | 40 | 43 | |
| 030-040 | 87 | 55 | 6.5 | 26 | 6.5 | M6 × 10 (n=4) | 45° | 6(6) | 3 | 6 | 20.8(21.8) | 10.2 | 20.5 | 18 | - | M6 | 35 | 40 | 43 | |
| 030-050 | 100 | 64 | 8.5 | 30 | 7 | M8 × 12 (n=4) | 45° | 8(8) | 3 | 8 | 28.3(27.3) | 10.2 | 28 | 25 | - | M10 | 40 | 50 | 53.5 | |
| 030-063 | 110 | 80 | 8.5 | 36 | 8 | M8 × 12 (n=8) | 45° | 8(8) | 3 | 8 | 28.3(31.3) | 10.2 | 28 | 25 | - | M10 | 50 | 50 | 53.5 | |
| 040-075 | 140 | 93 | 11 | 40 | 10 | M8 × 14 (n=8) | 45° | 8(10) | 4 | 8 | 31.3(38.3) | 12.5 | 31 | 28 | - | M10 | 60 | 60 | 63.5 | |
| 040-090 | 160 | 102 | 13 | 45 | 11 | M10 × 16 (n=8) | 45° | 10 | 4 | 10 | 38.3(41.3) | 12.5 | 38 | 35 | - | M12 | 70 | 80 | 84.5 | |
| 050-110 | 200 | 125 | 14 | 50 | 14 | M10 × 18 (n=8) | 45° | 12 | 5 | 12 | 45.3 | 16.0 | 45 | 42 | - | M6 | M16 | 85 | 80 | 84.5 |
| 063-130 | 250 | 140 | 16 | 60 | 15 | M12 × 20 (n=8) | 45° | 14 | 6 | 14 | 48.3 | 21.5 | 48.5 | 45 | - | M6 | M16 | 100 | 80 | 85 |
| 063-150 | 250 | 180 | 18 | 72 | 18 | M12 × 22 (n=8) | 45° | 14 | 6 | 14 | 53.8 | 21.5 | 53.5 | 50 | - | M6 | M16 | 120 | 82 | 87 |

NMRV+NMRV/NRV+NMRV组合方式 / POSSIBLE COMBINATIONS

| | i | n ₂ | IEC motor | i ₁ | i ₂ | | i | n ₂ | IEC motor | i ₁ | i ₂ | | | | |
|-------------|-------------|----------------|-----------|----------------|----------------|-------------|------|----------------|-------------|----------------|----------------|-----|----|----|----|
| DRV 025/030 | 100 | 14 | 56 | 10 | 10 | DRV 040/075 | 300 | 4.7 | 56 | 10 | 30 | | | | |
| | 150 | 9.3 | | 10 | 15 | | 400 | 3.5 | | 10 | 40 | | | | |
| | 200 | 7 | | 10 | 20 | | 500 | 2.8 | | 10 | 50 | | | | |
| | 250 | 5.6 | | 10 | 25 | | 600 | 2.3 | | 20 | 30 | | | | |
| | 300 | 4.7 | | 10 | 30 | | 750 | 1.9 | | 25 | 30 | | | | |
| | 400 | 3.5 | | 20 | 20 | | 900 | 1.6 | | 30 | 30 | | | | |
| | 500 | 2.8 | | 20 | 25 | | 1200 | 1.2 | | 30 | 40 | | | | |
| | 600 | 2.3 | | 20 | 30 | | 1500 | 0.93 | | 50 | 30 | | | | |
| | 750 | 1.9 | | 30 | 25 | | 1800 | 0.78 | | 60 | 30 | | | | |
| | 900 | 1.6 | | 30 | 30 | | 2400 | 0.58 | | 60 | 40 | | | | |
| | 1200 | 1.2 | | 40 | 30 | | 3000 | 0.47 | | 60 | 50 | | | | |
| | 1500 | 0.93 | | 50 | 30 | | 4000 | 0.35 | | 50 | 80 | | | | |
| | 1800 | 0.78 | | 60 | 30 | | 5000 | 0.28 | | 50 | 100 | | | | |
| | 2400 | 0.58 | | 60 | 40 | | 300 | 4.7 | | 7.5 | 40 | | | | |
| | 3000 | 0.47 | | 60 | 50 | | 400 | 3.5 | | 10 | 40 | | | | |
| DRV 025/040 | 300 | 4.7 | 56 | 10 | 30 | DRV 040/090 | 500 | 2.8 | 56 | 10 | 50 | | | | |
| | 400 | 3.5 | | 10 | 40 | | 600 | 2.3 | | 15 | 40 | | | | |
| | 500 | 2.8 | | 20 | 25 | | 750 | 1.9 | | 15 | 50 | | | | |
| | 600 | 2.3 | | 20 | 30 | | 900 | 1.6 | | 15 | 60 | | | | |
| | 750 | 1.9 | | 30 | 25 | | 1200 | 1.2 | | 30 | 40 | | | | |
| | 900 | 1.6 | | 30 | 30 | | 1500 | 0.93 | | 30 | 50 | | | | |
| | 1200 | 1.2 | | 40 | 30 | | 1800 | 0.78 | | 30 | 60 | | | | |
| | 1500 | 0.93 | | 50 | 30 | | 2400 | 0.58 | | 60 | 40 | | | | |
| | 1800 | 0.78 | | 60 | 30 | | 3000 | 0.47 | | 60 | 50 | | | | |
| | 2400 | 0.58 | | 60 | 40 | | 4000 | 0.35 | | 50 | 80 | | | | |
| | 3000 | 0.47 | | 60 | 50 | | 5000 | 0.28 | | 50 | 100 | | | | |
| | 4000 | 0.35 | | 50 | 80 | | 300 | 4.7 | | 10 | 30 | | | | |
| | 5000 | 0.28 | | 50 | 100 | | 400 | 3.5 | | 10 | 40 | | | | |
| | DRV 030/040 | 300 | | 4.7 | 56 | | 10 | 30 | | DRV 050/110 | 500 | 2.8 | 63 | 10 | 50 |
| | | 400 | | 3.5 | | | 10 | 40 | | | 600 | 2.3 | | 15 | 40 |
| 500 | | 2.8 | 20 | 25 | | 750 | 1.9 | 25 | 30 | | | | | | |
| 600 | | 2.3 | 20 | 30 | | 900 | 1.6 | 30 | 30 | | | | | | |
| 750 | | 1.9 | 25 | 30 | | 1200 | 1.2 | 30 | 40 | | | | | | |
| 900 | | 1.6 | 30 | 30 | | 1500 | 0.93 | 50 | 30 | | | | | | |
| 1200 | | 1.2 | 30 | 40 | | 1800 | 0.78 | 60 | 30 | | | | | | |
| 1500 | | 0.93 | 50 | 30 | | 2400 | 0.58 | 60 | 40 | | | | | | |
| 1800 | | 0.78 | 60 | 30 | | 3000 | 0.47 | 60 | 50 | | | | | | |
| 2400 | | 0.58 | 60 | 40 | | 4000 | 0.35 | 50 | 80 | | | | | | |
| 3200 | | 0.44 | 80 | 40 | | 5000 | 0.28 | 50 | 100 | | | | | | |
| 4000 | | 0.35 | 50 | 80 | | 300 | 4.7 | 10 | 30 | | | | | | |
| 5000 | | 0.28 | 50 | 100 | | 400 | 3.5 | 10 | 40 | | | | | | |
| DRV 030/050 | | 300 | 4.7 | 56 | | 10 | 30 | DRV 063/130 | 500 | | 2.8 | 71 | | 10 | 50 |
| | | 400 | 3.5 | | | 10 | 40 | | 600 | | 2.3 | | | 15 | 40 |
| | 500 | 2.8 | 10 | | 50 | 750 | 1.9 | | 25 | 30 | | | | | |
| | 600 | 2.3 | 20 | | 30 | 900 | 1.6 | | 30 | 30 | | | | | |
| | 750 | 1.9 | 25 | | 30 | 1200 | 1.2 | | 30 | 40 | | | | | |
| | 900 | 1.6 | 30 | | 30 | 1500 | 0.93 | | 50 | 30 | | | | | |
| | 1200 | 1.2 | 30 | | 40 | 1800 | 0.78 | | 60 | 30 | | | | | |
| | 1500 | 0.93 | 50 | | 30 | 2400 | 0.58 | | 60 | 40 | | | | | |
| | 1800 | 0.78 | 60 | | 30 | 3000 | 0.47 | | 60 | 50 | | | | | |
| | 2400 | 0.58 | 60 | | 40 | 4000 | 0.35 | | 50 | 80 | | | | | |
| | 3000 | 0.47 | 60 | | 50 | 5000 | 0.28 | | 50 | 100 | | | | | |
| | 4000 | 0.35 | 50 | | 80 | 150 | 9.3 | | 10 | 15 | | | | | |
| | 4800 | 0.29 | 60 | | 80 | 200 | 7.1 | | 10 | 20 | | | | | |
| | DRV 030/063 | 300 | 4.7 | | 56 | 7.5 | 40 | | DRV 063/150 | 250 | 5.6 | | 71 | 10 | 25 |
| | | 400 | 3.5 | | | 10 | 40 | | | 300 | 4.7 | | | 10 | 30 |
| 500 | | 2.8 | 10 | 50 | | 400 | 3.5 | 10 | | 40 | | | | | |
| 600 | | 2.3 | 15 | 40 | | 500 | 2.8 | 10 | | 50 | | | | | |
| 750 | | 1.9 | 15 | 50 | | 600 | 2.3 | 15 | | 40 | | | | | |
| 900 | | 1.6 | 15 | 60 | | 750 | 1.9 | 25 | | 30 | | | | | |
| 1200 | | 1.2 | 30 | 40 | | 900 | 1.6 | 30 | | 30 | | | | | |
| 1500 | | 0.93 | 30 | 50 | | 1200 | 1.2 | 30 | | 40 | | | | | |
| 1800 | | 0.78 | 30 | 60 | | 1800 | 0.78 | 60 | | 30 | | | | | |
| 2400 | | 0.58 | 60 | 40 | | 2400 | 0.58 | 60 | | 40 | | | | | |
| 3000 | | 0.47 | 60 | 50 | | 3000 | 0.47 | 60 | | 50 | | | | | |
| 4000 | | 0.35 | 50 | 80 | | 4000 | 0.35 | 50 | | 80 | | | | | |
| 5000 | | 0.28 | 50 | 100 | | 5000 | 0.28 | 50 | | 100 | | | | | |

注：用户有特殊要求时，可根据实际需要选择025、030、040、050、063、075、090、110、130、150作为组合单元另行组合。
Note: users have special requirement, can according to the actual need to select 025, 030, 040, 050, 063, 075, 090, 110, 130, 150 as a combined unit further combination.

减速机选型表 / GEAR UNIT SELECTION TABLES

DRV性能参数 PERFORMANCE PARAMETERS

| P _{in} (kw) | n ₂ (r/min) | i | M ₂₀ (Nm) | F ₁₂ (N) | f _s | | |
|----------------------|------------------------|------|----------------------|---------------------|----------------|------------|------|
| 0.09 | 28.0 | 100 | 18 | 1286 | 1.6 | DRV025/030 | 5612 |
| | 18.7 | 150 | 25 | 1472 | 1.1 | | |
| | 14.0 | 200 | 31 | 1620 | 0.9 | | |
| | 14.0 | 100 | 37 | 1620 | 0.8 | | |
| | 9.3 | 150 | 50 | 1830 | 0.6 | | |
| | 7.0 | 200 | 61 | 1830 | 0.5 | | |
| | 5.6 | 250 | 68 | 1830 | 0.5 | | |
| | 4.7 | 300 | 77 | 1830 | 0.4 | | |
| | 3.5 | 400 | 106 | 1830 | 0.3 | | |
| | 2.8 | 500 | 117 | 1830 | 0.3 | | |
| | 2.3 | 600 | 135 | 1830 | 0.2 | | |
| | 1.9 | 750 | 149 | 1830 | 0.2 | | |
| | 1.6 | 900 | 167 | 1830 | 0.2 | | |
| | 1.2 | 1200 | 201 | 1830 | 0.1 | | |
| | 0.9 | 1500 | 231 | 1830 | 0.1 | | |
| | 0.8 | 1800 | 264 | 1830 | 0.1 | | |
| | 0.6 | 2400 | 311 | 1830 | 0.1 | | |
| | 0.5 | 3000 | 347 | 1830 | 0.1 | | |
| | 9.3 | 300 | 43 | 3490 | 1.6 | | |
| | 7.0 | 400 | 52 | 3490 | 1.2 | | |
| | 5.6 | 500 | 71 | 3490 | 0.8 | | |
| | 4.7 | 300 | 82 | 3490 | 0.8 | | |
| | 3.5 | 400 | 103 | 4840 | 1.2 | | |
| | 2.8 | 500 | 120 | 4840 | 1.0 | | |
| 2.3 | 600 | 146 | 4840 | 0.9 | | | |
| 1.9 | 750 | 158 | 4840 | 0.8 | | | |
| 1.6 | 900 | 177 | 4840 | 0.7 | | | |
| 1.6 | 900 | 188 | 6270 | 1.0 | | | |
| 1.2 | 1200 | 222 | 6270 | 0.9 | | | |
| 0.9 | 1500 | 259 | 6270 | 0.7 | | | |
| 0.9 | 1500 | 305 | 7380 | 1.1 | | | |
| 0.8 | 1800 | 331 | 7380 | 1.0 | | | |
| 0.6 | 2400 | 400 | 7380 | 0.7 | | | |
| 0.5 | 3000 | 494 | 8180 | 0.9 | | | |
| 0.4 | 4000 | 589 | 8180 | 0.8 | | | |
| 0.12 | 4.7 | 300 | 112 | 4840 | 1.2 | | |
| | 3.5 | 400 | 138 | 4840 | 0.9 | | |
| | 2.8 | 500 | 160 | 4840 | 0.7 | | |
| | 2.8 | 500 | 168 | 6270 | 1.3 | | |
| | 2.3 | 600 | 199 | 6270 | 1.1 | | |
| | 1.9 | 750 | 217 | 6270 | 0.9 | | |
| | 1.6 | 900 | 279 | 7380 | 1.2 | | |
| | 1.2 | 1200 | 344 | 7380 | 0.9 | | |
| | 0.8 | 1800 | 470 | 8180 | 0.9 | | |
| | 0.6 | 2400 | 593 | 8180 | 0.9 | | |
| | 0.5 | 3000 | 731 | 10320 | 1.2 | | |
| | 0.4 | 4000 | 884 | 10320 | 1.0 | | |
| | 0.3 | 5000 | 1023 | 10320 | 0.8 | | |
| | 4.7 | 300 | 112 | 4840 | 1.2 | | |
| | 3.5 | 400 | 138 | 4840 | 0.9 | | |
| 2.8 | 500 | 160 | 4840 | 0.7 | | | |
| 2.8 | 500 | 168 | 6270 | 1.3 | | | |
| 2.3 | 600 | 199 | 6270 | 1.1 | | | |
| 1.9 | 750 | 217 | 6270 | 0.9 | | | |
| 1.6 | 900 | 279 | 7380 | 1.2 | | | |
| 1.2 | 1200 | 344 | 7380 | 0.9 | | | |
| 0.8 | 1800 | 470 | 8180 | 0.9 | | | |
| 0.6 | 2400 | 593 | 8180 | 0.9 | | | |
| 0.5 | 3000 | 731 | 10320 | 1.2 | | | |
| 0.4 | 4000 | 884 | 10320 | 1.0 | | | |
| 0.3 | 5000 | 1023 | 10320 | 0.8 | | | |



系列

减速机选型表 / GEAR UNIT SELECTION TABLES

DRV性能参数 PERFORMANCE PARAMETERS

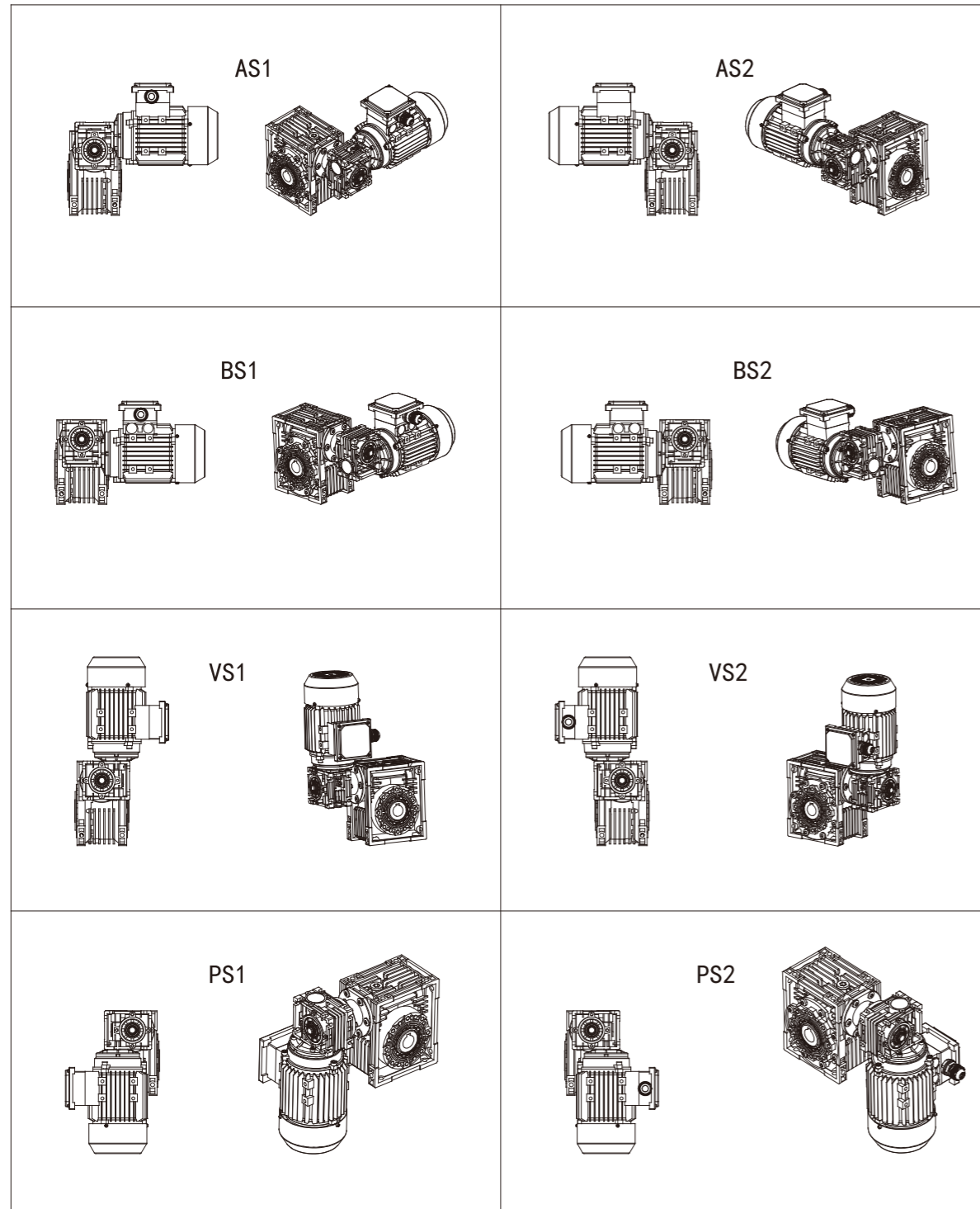
| P_{in} (kw) | n_2 (r/min) | i | M_{2n} (Nm) | F_{t2} (N) | f_s | | |
|------------------|------------------|------|------------------|-----------------|------------|------------|------|
| 0.18 | 3.5 | 400 | 216 | 6270 | 1.0 | DRV030/063 | 6324 |
| | 2.8 | 500 | 252 | 6270 | 0.8 | | |
| | 2.3 | 600 | 336 | 7380 | 1.1 | DRV040/075 | 6324 |
| | 1.9 | 750 | 371 | 7380 | 0.9 | | |
| | 1.6 | 900 | 419 | 7380 | 0.8 | | |
| | 1.2 | 1200 | 544 | 8180 | 1.0 | DRV040/090 | 6324 |
| | 0.9 | 1500 | 647 | 8180 | 0.8 | | |
| | 0.8 | 1800 | 727 | 10320 | 1.5 | DRV050/110 | 6324 |
| 0.6 | 2400 | 948 | 10320 | 1.1 | | | |
| 0.25 | 7.0 | 400 | 150 | 6270 | 1.4 | DRV030/063 | 6322 |
| | 5.6 | 500 | 175 | 6270 | 1.2 | | |
| | 3.5 | 400 | 321 | 7380 | 1.1 | DRV040/075 | 7114 |
| | 2.8 | 500 | 375 | 7380 | 0.8 | | |
| | 2.3 | 600 | 488 | 8180 | 1.2 | | |
| | 1.9 | 750 | 553 | 8180 | 0.9 | DRV040/090 | 7114 |
| | 1.6 | 900 | 612 | 8180 | 0.8 | | |
| | 1.2 | 1200 | 776 | 10320 | 1.3 | DRV050/110 | 7114 |
| | 0.9 | 1500 | 924 | 10320 | 1.2 | | |
| | 0.8 | 1800 | 1010 | 10320 | 1.1 | | |
| | 0.6 | 2400 | 1358 | 13500 | 1.0 | | |
| | 0.5 | 3000 | 1626 | 13500 | 0.8 | DRV063/130 | 7114 |
| | 0.4 | 4000 | 1910 | 13500 | 0.6 | | |
| | 0.3 | 5000 | 2132 | 13500 | 0.5 | DRV063/150 | 7114 |
| | 0.8 | 1800 | 1199 | 18000 | 1.8 | | |
| | 0.6 | 2400 | 1446 | 18000 | 1.8 | | |
| 0.5 | 3000 | 1713 | 18000 | 1.4 | | | |
| 0.4 | 4000 | 2026 | 18000 | 0.9 | | | |
| 0.3 | 5000 | 2251 | 18000 | 0.7 | | | |
| 0.37 | 9.3 | 300 | 182 | 6270 | 1.3 | DRV030/063 | 7112 |
| | 7.0 | 400 | 222 | 6270 | 1.0 | | |
| | 4.7 | 300 | 383 | 7380 | 1.0 | DRV040/075 | 7124 |
| | 3.5 | 400 | 474 | 7380 | 0.7 | | |
| | 4.7 | 300 | 406 | 8180 | 1.5 | | |
| | 3.5 | 400 | 505 | 8180 | 1.2 | DRV040/090 | 7124 |
| | 2.8 | 500 | 593 | 8180 | 0.9 | | |
| | 2.3 | 600 | 722 | 8180 | 0.8 | | |
| | 1.9 | 750 | 837 | 10320 | 1.3 | | |
| | 1.6 | 900 | 928 | 10320 | 1.2 | DRV050/110 | 7124 |
| | 1.2 | 1200 | 1148 | 10320 | 0.8 | | |
| | 0.9 | 1500 | 1444 | 13500 | 1.1 | DRV063/130 | 7124 |
| | 0.8 | 1800 | 1586 | 13500 | 0.9 | | |
| | 0.8 | 1800 | 1775 | 18000 | 1.2 | | |
| 0.6 | 2400 | 2141 | 18000 | 1.2 | DRV063/150 | 7124 | |
| 0.5 | 3000 | 2535 | 18000 | 0.9 | | | |
| 0.3 | 5000 | 2251 | 18000 | 0.7 | | | |
| 0.55 | 9.3 | 300 | 305 | 8180 | 2.0 | DRV040/090 | 7122 |
| | 7.0 | 400 | 375 | 8180 | 1.5 | | |
| | 5.6 | 500 | 441 | 8180 | 1.2 | | |
| | 4.7 | 300 | 615 | 10320 | 2.0 | DRV050/110 | 8014 |
| | 3.5 | 400 | 810 | 10320 | 1.4 | | |
| | 2.8 | 500 | 938 | 10320 | 1.1 | | |
| | 2.3 | 600 | 1096 | 10320 | 1.0 | | |
| | 1.9 | 750 | 1244 | 10320 | 0.9 | | |

减速机选型表 / GEAR UNIT SELECTION TABLES

DRV性能参数 PERFORMANCE PARAMETERS

| P_{in} (kw) | n_2 (r/min) | i | M_{2n} (Nm) | F_{t2} (N) | f_s | | | |
|------------------|------------------|------|------------------|-----------------|------------|------------|------|------|
| 0.55 | 2.8 | 500 | 957 | 13500 | 1.6 | DRV063/130 | 8014 | |
| | 1.9 | 750 | 1382 | 13500 | 1.2 | | | |
| | 1.2 | 1200 | 2057 | 13500 | 0.8 | | | |
| | 0.8 | 1800 | 2638 | 18000 | 0.8 | DRV063/150 | 8014 | |
| | 0.6 | 2400 | 3182 | 18000 | 0.6 | | | |
| 0.75 | 9.3 | 300 | 424 | 10320 | 2.8 | DRV050/110 | 8012 | |
| | 7.0 | 400 | 553 | 10320 | 2.1 | | | |
| | 5.6 | 500 | 640 | 10320 | 1.6 | | | |
| | 4.7 | 300 | 838 | 10320 | 1.5 | DRV050/110 | 8024 | |
| | 3.5 | 400 | 1105 | 10320 | 1.1 | | | |
| | 2.8 | 500 | 1305 | 13500 | 1.1 | DRV063/130 | 8024 | |
| | 2.3 | 600 | 1557 | 13500 | 1.0 | | | |
| | 1.9 | 750 | 1772 | 13500 | 0.9 | | | |
| | 1.6 | 900 | 2014 | 13500 | 0.8 | | | |
| | 2.8 | 500 | 1291 | 18000 | 1.8 | | | |
| | 2.3 | 600 | 1529 | 18000 | 1.7 | | | |
| | 1.9 | 750 | 1783 | 18000 | 1.3 | DRV063/150 | 8024 | |
| | 1.6 | 900 | 2215 | 18000 | 0.9 | | | |
| | 1.2 | 1200 | 2680 | 18000 | 1 | DRV050/110 | 8022 | |
| 9.3 | 300 | 621 | 10320 | 1.9 | | | | |
| 7.0 | 400 | 810 | 10320 | 1.4 | | | | |
| 5.6 | 500 | 938 | 10320 | 1.1 | | | | |
| 4.7 | 300 | 1274 | 13500 | 1.3 | DRV063/130 | | | 90S4 |
| 3.5 | 400 | 1621 | 13500 | 1.0 | | | | |
| 2.8 | 500 | 1913 | 13500 | 0.8 | | | | |
| 9.3 | 150 | 753 | 18000 | 3.1 | DRV063/150 | | | 90S4 |
| 7 | 200 | 966 | 18000 | 2.4 | | | | |
| 5.6 | 250 | 1175 | 18000 | 1.7 | | | | |
| 4.7 | 300 | 1364 | 18000 | 1.7 | | | | |
| 3.5 | 400 | 1619 | 18000 | 1.6 | | | | |
| 2.8 | 500 | 1893 | 18000 | 1.2 | | | | |
| 2.3 | 600 | 2242 | 18000 | 1.2 | | | | |
| 1.9 | 750 | 2616 | 18000 | 0.9 | | | | |
| 9.3 | 300 | 878 | 13500 | 1.9 | DRV063/130 | 90S2 | | |
| 7.0 | 400 | 1105 | 13500 | 1.4 | | | | |
| 5.6 | 500 | 1305 | 13500 | 1.1 | | | | |
| 4.7 | 300 | 1737 | 13500 | 1.0 | DRV063/130 | 90L4 | | |
| 3.5 | 400 | 2210 | 13500 | 0.7 | | | | |
| 9.3 | 150 | 1026 | 18000 | 2.3 | DRV063/150 | 90L4 | | |
| 7 | 200 | 1317 | 18000 | 1.8 | | | | |
| 5.6 | 250 | 1602 | 18000 | 1.3 | | | | |
| 4.7 | 300 | 1860 | 18000 | 1.3 | | | | |
| 3.5 | 400 | 2208 | 18000 | 1.2 | | | | |
| 2.8 | 500 | 2582 | 18000 | 0.9 | | | | |
| 2.3 | 600 | 3057 | 18000 | 0.9 | | | | |

DRV组合带电机安装方位
DRV COMBINED WITH MOTOR MOUNTING POSITION



第一级和第二级减速机按上图方式组合，如在订货时没有特别说明，将按照AS2组合方式供货；
第二级减速机实际安装方式参照51页的安装方位图。

Note: the first stage and the second stage reducer according to the above combinations, such as when the ordering is not specified, will be in accordance with the AS2 combination supply; second stage reducer practical mode of installation 51 installation azimuth diagram.

型号说明 / MODEL ILLUMINATE

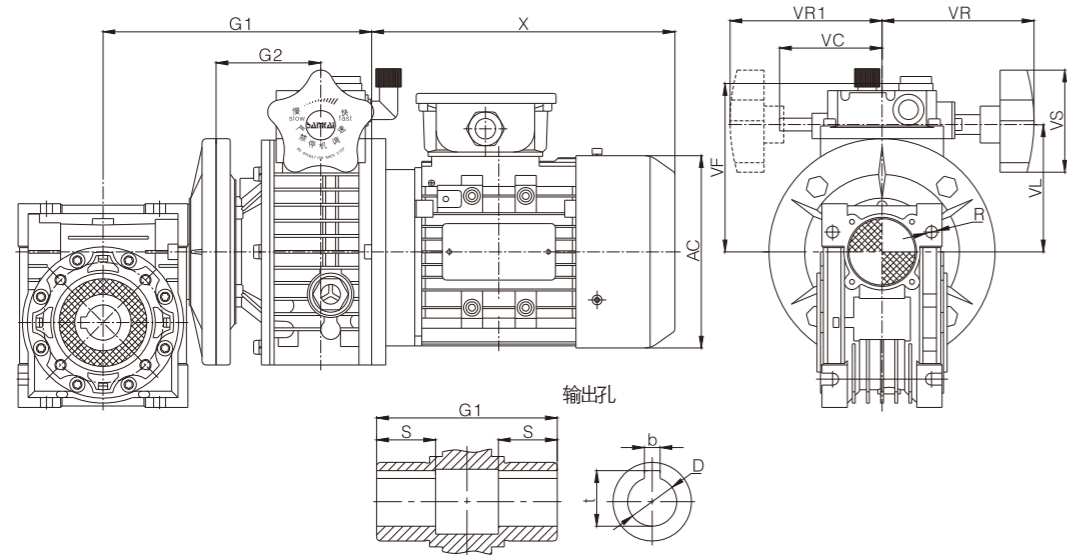
UDL-NMRV无级变速器与蜗轮蜗杆减速机组合 / COMBINATION OF STEPLESS SPEED VARIATOR AND WORM GEAR UNITS

| | UD | L | 010 | - | NMRV | 063 | - | 40 | E | FA1 | DZ1 | B3 |
|----|--|---|---|---|------|-----|---|----|---|-----|-----|----|
| | ① | ② | ③ | | ④ | ⑤ | | ⑥ | ⑦ | ⑧ | ⑨ | ⑩ |
| NO | 说明 | | Comments | | | | | | | | | |
| 1 | 无级变速器代号 | | Code of stepless speed variator | | | | | | | | | |
| 2 | 铝合金机壳，不标注时为铸铁机壳 | | Aluminium alloy housing, and no mark means cast iron casing | | | | | | | | | |
| 3 | 无级变速器机座号 | | Continuously variable transmission model | | | | | | | | | |
| 4 | 蜗轮蜗杆减速机代码 | | Code of worm gear units | | | | | | | | | |
| 5 | 蜗轮蜗杆减速机中心距（规格） | | Central distance of worm gear units(spec) | | | | | | | | | |
| 6 | 蜗轮蜗杆减速机速比 | | Speed ratio of worm gear units | | | | | | | | | |
| 7 | 1.无代号表示不带输出法兰 2.E：带蜗杆同向输出轴 | | 1.No mark means single extension worm shaft 2.E:Double extension worm shaft | | | | | | | | | |
| 8 | 1.无代号表示不带输出法兰 2.FA、FB、FC、FD、FE（1/2）：输出法兰代号和位置 | | 1.No mark means without output flange 2.FA、FB、FC、FD、FE（1/2）：Output flange and position | | | | | | | | | |
| 9 | 1.无代号表示孔输出 2.DZ（1/2）：单向输出轴和位置 3.SZ：双向输出轴 | | 1.No mark means hole output 2.DZ(1/2):Single output shaft and position 3.SZ:Double output shaft | | | | | | | | | |
| 10 | 安装方位代号 | | Installation position code | | | | | | | | | |

UDL+NMRV产品介绍 / UDL+NMRV DURING INTRODUCTION



UDL+NMRV尺寸 / UDL+NMRV SIZE



| 型号 (model) | D(H8) | b | t | G1 | G2 | S | VF | VL | VR | VR1 |
|----------------|--------|-------|------------|-------|-------|----|-----|-----|-----|-----|
| UDL002-NMRV030 | 14 | 5 | 16.3 | 167.5 | 119.5 | 21 | 111 | 78 | 110 | 110 |
| UDL002-NMRV040 | 18(19) | 6 | 20.8(21.8) | 182.5 | 134.5 | 26 | 111 | 78 | 110 | 110 |
| UDL005-NMRV040 | | | | 180 | 144 | | 123 | 90 | 110 | 110 |
| UDL002-NMRV050 | 25(24) | 8 | 28.3(27.3) | 192.5 | 144.5 | 30 | 111 | 78 | 110 | 110 |
| UDL005-NMRV050 | | | | 190 | 154 | | 123 | 90 | 110 | 110 |
| UDL005-NMRV063 | 25(28) | 8 | 28.3(31.3) | 205 | 169 | 36 | 123 | 90 | 110 | 110 |
| UDL010-NMRV063 | | | | 234 | 180.5 | | 140 | 107 | 120 | 120 |
| UDL005-NMRV075 | 28(35) | 8(10) | 31.3(38.3) | 222.5 | 186.5 | 40 | 123 | 90 | 110 | 110 |
| UDL010-NMRV075 | | | | 251.5 | 198 | | 140 | 107 | 120 | 120 |
| UD020-NMRV075 | 35(38) | 10 | 38.3(41.3) | 300.5 | 227.5 | 45 | 144 | 122 | 150 | - |
| UDL010-NMRV090 | | | | 268.5 | 215 | | 140 | 107 | 120 | 120 |
| UD020-NMRV090 | 42 | 12 | 45.3 | 317.5 | 244.5 | 50 | 144 | 122 | 150 | - |
| UDL010-NMRV110 | | | | 299 | 245.5 | | 140 | 107 | 120 | 120 |
| UD020-NMRV110 | 45 | 14 | 48.8 | 348 | 275 | 60 | 144 | 122 | 150 | - |
| UD030-NMRV110 | | | | 368 | 291 | | 188 | 150 | 160 | - |
| UD020-NMRV130 | 45 | 14 | 48.8 | 368 | 295 | 60 | 144 | 122 | 150 | - |
| UD030-NMRV130 | | | | 388 | 311 | | 188 | 150 | 160 | - |

注：1. NMRV的其它尺寸请参考24页
2. UDL的其它尺寸请参考57, 59页
3. X、AC尺寸请参考94页

减速机选型表 / GEAR UNIT SELECTION TABLES

UDL..NMRV..(n₁=1400r/min) 性能参数 PERFORMANCE PARAMETER

| P _{1n} (kw) | n ₂ (r/min) | i | M _{2n} (Nm) | UDL002-NMRV040 | 6324 | | |
|-------------------------|---------------------------|-----------|-------------------------|----------------|------|----------------|------|
| 0.18 | 117~22.5 | 12~61.5 | 9~18 | UDL002-NMRV040 | 6324 | | |
| | 88~17 | 16~82 | 12~23 | | | | |
| | 58.7~11.3 | 24~123 | 17~32 | | | | |
| | 44~8.5 | 32~164 | 22~40 | | | | |
| | 35.2~6.8 | 40~205 | 27~47 | | | | |
| | 29.3~5.7 | 48~246 | 30~51 | | | | |
| | 22~4.3 | 64~328 | 37~62 | | | | |
| | 17.6~3.4 | 80~410 | 43~60 | | | | |
| | 22~4.3 | 64~328 | 38~63 | | | | |
| | 17.6~3.4 | 80~410 | 44~73 | | | | |
| 0.37 | 14.7~2.8 | 96~492 | 50~80 | UDL002-NMRV050 | 6324 | | |
| | 11~2.1 | 128~656 | 59~82 | | | | |
| | 8.8~1.7 | 160~820 | 66~79 | | | | |
| | 133~26.7 | 10.5~52.5 | 19~36 | | | UDL005-NMRV050 | 7124 |
| | 100~20 | 14~70 | 25~47 | | | | |
| | 66.7~13.3 | 21~105 | 36~65 | | | | |
| | 50~10 | 28~140 | 46~82 | | | | |
| | 40~8 | 35~175 | 55~97 | | | | |
| | 33.3~6.7 | 42~210 | 61~107 | | | | |
| | 25~5 | 56~280 | 76~124 | | | | |
| 20~4 | 70~350 | 89~120 | | | | | |
| 25~5 | 56~280 | 79~134 | | | | | |
| 20~4 | 70~350 | 92~155 | | | | | |
| 0.55 | 16.7~3.3 | 84~420 | 104~173 | UDL005-NMRV063 | 7124 | | |
| | 12.5~2.5 | 112~560 | 125~173 | | | | |
| | 10~2 | 140~700 | 139~150 | | | | |
| | 133~26.7 | 10.5~52.5 | 26~49 | | | UDL010-NMRV063 | 8014 |
| | 100~20 | 14~70 | 34~63 | | | | |
| | 66.7~13.3 | 21~105 | 48~88 | | | | |
| | 50~10 | 28~140 | 62~112 | | | | |
| | 40~8 | 35~175 | 75~133 | | | | |
| | 33.3~6.7 | 42~210 | 81~146 | | | | |
| | 25~5 | 56~280 | 105~179 | | | | |
| 20~4 | 70~350 | 123~207 | | | | | |
| 20~4 | 70~350 | 129~216 | | | | | |
| 16.7~3.3 | 84~420 | 146~242 | | | | | |
| 0.75 | 12.5~2.5 | 112~560 | 176~250 | UDL010-NMRV075 | 8014 | | |
| | 12.5~2.5 | 112~560 | 189~309 | | | | |
| | 10~2 | 140~700 | 218~350 | | | | |
| | 133~26.7 | 10.5~52.5 | 39~73 | | | UDL010-NMRV090 | 8014 |
| | 100~20 | 14~70 | 51~94 | | | | |
| | 66.7~13.3 | 21~105 | 72~132 | | | | |
| | 50~10 | 28~140 | 92~168 | | | | |
| | 40~8 | 35~175 | 112~199 | | | | |
| | 33.3~6.7 | 42~210 | 126~219 | | | | |
| | 25~5 | 56~280 | 156~232 | | | | |
| 20~4 | 70~350 | 185~310 | | | | | |
| 20~4 | 70~350 | 192~320 | | | | | |
| 16.7~3.3 | 84~420 | 219~300 | | | | | |
| 0.75 | 16.7~3.3 | 84~420 | 219~300 | UDL010-NMRV063 | 8024 | | |
| | 100~20 | 14~70 | 51~94 | | | | |
| | 66.7~13.3 | 21~105 | 72~132 | | | | |
| | 50~10 | 28~140 | 92~168 | | | | |
| | 40~8 | 35~175 | 112~199 | | | | |
| | 33.3~6.7 | 42~210 | 126~219 | | | | |
| | 25~5 | 56~280 | 156~232 | | | | |
| | 20~4 | 70~350 | 185~310 | | | | |
| | 20~4 | 70~350 | 192~320 | | | | |
| | 16.7~3.3 | 84~420 | 219~300 | | | | |
| 0.75 | 16.7~3.3 | 84~420 | 219~300 | UDL010-NMRV075 | 8024 | | |

减速机选型表 / GEAR UNIT SELECTION TABLES

UDL..NMRV..(n₁=1400r/min) 性能参数 PERFORMANCE PARAMETER

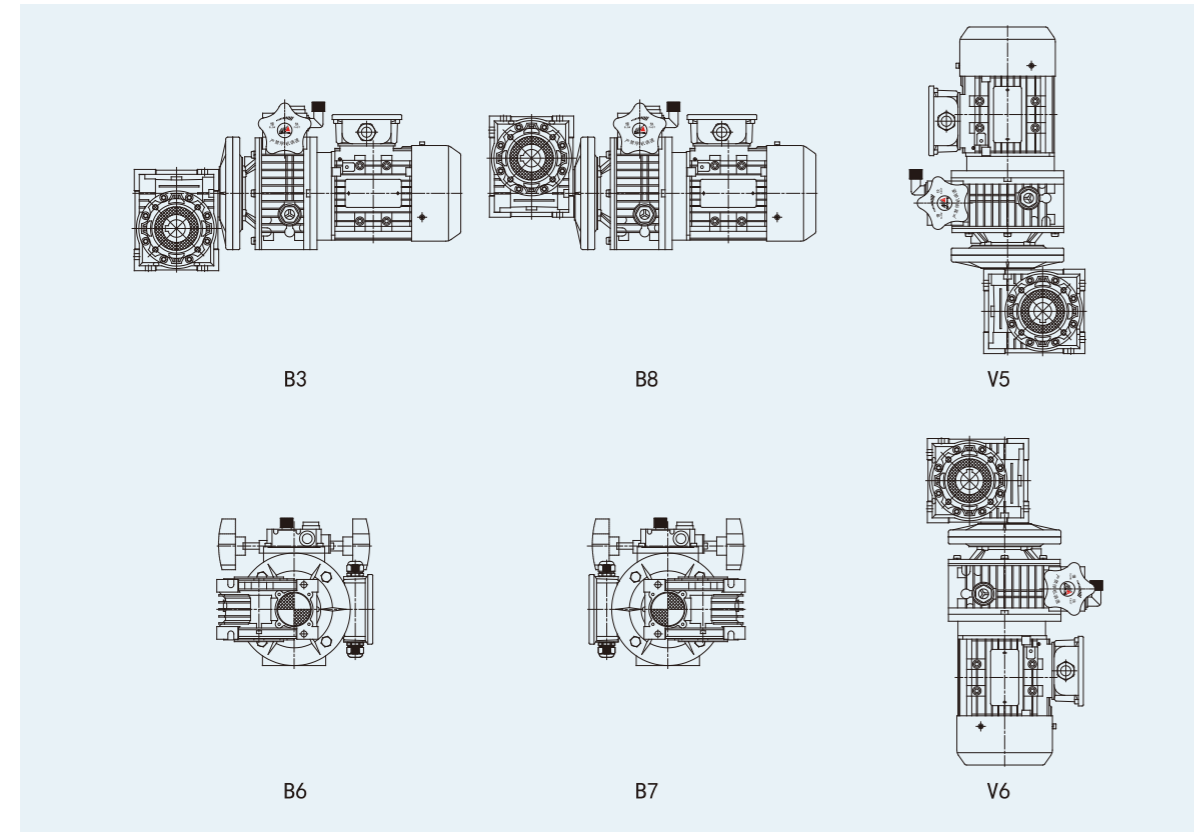
| P _{in} (kw) | n ₂ (r/min) | i | M _{2n} (Nm) | | |
|-------------------------|---------------------------|-----------|-------------------------|----------------|------|
| 0.75 | 16.7~3.3 | 84~420 | 230~389 | UDL010-NMRV090 | 8024 |
| | 12.5~2.5 | 112~560 | 265~428 | | |
| | 10~2 | 140~700 | 303~410 | | |
| | 12.5~2.5 | 112~560 | 302~503 | UDL010-NMRV110 | 8024 |
| | 10~2 | 140~700 | 348~575 | | |
| 1.1 | 133~26.7 | 10.5~52.5 | 59~111 | UD020-NMRV075 | 90S4 |
| | 100~20 | 14~70 | 77~144 | | |
| | 66.7~13.3 | 21~105 | 110~203 | | |
| | 50~10 | 28~140 | 142~258 | | |
| | 40~8 | 35~175 | 172~308 | | |
| | 33.3~6.7 | 42~210 | 195~340 | | |
| | 25~5 | 56~280 | 245~360 | | |
| | 100~20 | 14~70 | 78~146 | | |
| | 66.7~13.3 | 21~105 | 113~208 | | |
| | 50~10 | 28~140 | 146~266 | | |
| | 40~8 | 35~175 | 177~320 | UD020-NMRV090 | 90S4 |
| | 33.3~6.7 | 42~210 | 202~356 | | |
| | 25~5 | 56~280 | 256~442 | | |
| | 20~4 | 70~350 | 304~517 | | |
| | 20~4 | 70~350 | 320~550 | | |
| | 16.7~3.3 | 84~420 | 368~625 | | |
| | 12.5~2.5 | 112~560 | 455~754 | | |
| | 10~2 | 140~700 | 522~710 | | |
| | 16.7~3.3 | 84~420 | 373~623 | | |
| | 12.5~2.5 | 112~560 | 460~749 | | |
| 10~2 | 140~700 | 531~868 | | | |
| 133~26.7 | 10.5~52.5 | 78~148 | | | |
| 100~20 | 14~70 | 102~192 | | | |
| 66.7~13.3 | 21~105 | 147~270 | | | |
| 50~10 | 28~140 | 190~344 | | | |
| 40~8 | 35~175 | 229~330 | | | |
| 33.3~6.7 | 42~210 | 260~390 | | | |
| 25~5 | 56~280 | 327~360 | | | |
| 133~26.7 | 10.5~52.5 | 77~150 | UD020-NMRV075 | 90L4 | |
| 100~20 | 14~70 | 104~195 | | | |
| 66.7~13.3 | 21~105 | 150~277 | | | |
| 50~10 | 28~140 | 194~355 | | | |
| 40~8 | 35~175 | 236~427 | | | |
| 33.3~6.7 | 42~210 | 270~474 | | | |
| 25~5 | 56~280 | 341~589 | | | |
| 20~4 | 70~350 | 406~560 | | | |
| 20~4 | 70~350 | 426~733 | | | |
| 16.7~3.3 | 84~420 | 490~833 | | | |
| 16.7~3.3 | 84~420 | 498~831 | UD020-NMRV090 | 90L4 | |
| 12.5~2.5 | 112~560 | 614~999 | | | |
| 10~2 | 140~700 | 696~1100 | | | |
| 133~26.7 | 10.5~52.5 | 120~226 | | | |
| 100~20 | 14~70 | 157~294 | | | |
| 66.7~13.3 | 21~105 | 228~418 | | | |

减速机选型表 / GEAR UNIT SELECTION TABLES

UDL..NMRV..(n₁=1400r/min) 性能参数 PERFORMANCE PARAMETER

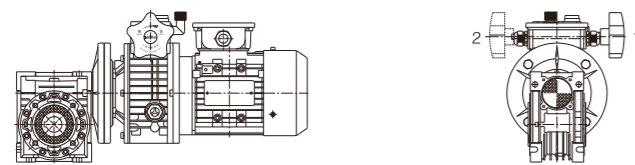
| P _{in} (kw) | n ₂ (r/min) | i | M _{2n} (Nm) | | | |
|-------------------------|---------------------------|----------|-------------------------|---------------|---------------|---------|
| 2.2 | 50~10 | 28~140 | 298~549 | UD030-NMRV110 | 100L1-4 | |
| | 40~8 | 35~175 | 364~664 | | | |
| | 33.3~6.7 | 42~210 | 413~717 | | | |
| | 25~5 | 56~280 | 533~931 | | | |
| | 25~5 | 56~280 | 542~932 | UD030-NMRV130 | 100L1-4 | |
| | 20~4 | 70~350 | 648~1097 | | | |
| | 16.7~3.3 | 84~420 | 746~1246 | | | |
| | 12.5~2.5 | 112~560 | 921~1499 | | | |
| 10~2 | 140~700 | 1040~169 | UD030-NMRV110 | 100L2-4 | | |
| 133~26.7 | 10.5~52.5 | 160~302 | | | | |
| 100~20 | 14~70 | 210~392 | | | | |
| 66.7~13.3 | 21~105 | 304~558 | | | | |
| 50~10 | 28~140 | 398~732 | | | | |
| 40~8 | 35~175 | 485~885 | | | | |
| 33.3~6.7 | 42~210 | 547~956 | | | | |
| 25~5 | 56~280 | 711~1030 | | | | |
| 133~26.7 | 10.5~52.5 | 160~301 | | | | |
| 100~20 | 14~70 | 211~395 | | | UD030-NMRV130 | 100L2-4 |
| 66.7~13.3 | 21~105 | 307~563 | | | | |
| 50~10 | 28~140 | 402~733 | | | | |
| 40~8 | 35~175 | 490~885 | | | | |
| 33.3~6.7 | 42~210 | 562~973 | | | | |
| 25~5 | 56~280 | 720~1242 | | | | |
| 20~4 | 70~350 | 864~1463 | | | | |
| 133~26.7 | 10.5~52.5 | 213~402 | UD050-NMRV110 | 112M4 | | |
| 100~20 | 14~70 | 279~523 | | | | |
| 66.7~13.3 | 21~105 | 405~744 | | | | |
| 50~10 | 28~140 | 530~975 | | | | |
| 40~8 | 35~175 | 647~1020 | | | | |
| 133~26.7 | 10.5~52.5 | 214~401 | | | UD050-NMRV130 | 112M4 |
| 100~20 | 14~70 | 281~527 | | | | |
| 66.7~13.3 | 21~105 | 410~751 | | | | |
| 50~10 | 28~140 | 536~978 | | | | |
| 40~8 | 35~175 | 653~1180 | | | | |
| 33.3~6.7 | 42~210 | 749~1298 | | | | |
| 25~5 | 56~280 | 960~1650 | | | | |

UDL与NMRV安装方位
UDL AND NMRV INSTALLATION POSITION



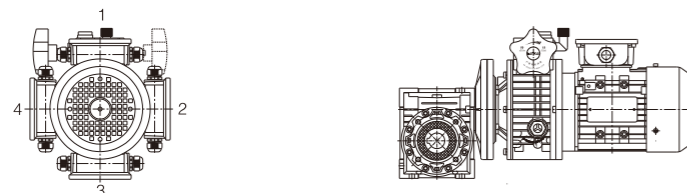
附件位置 / THE ATTACHMENT POSITION

NMRV...UDL...手轮位置 THE POSITION OF THE HAND WHEEL



注:如没有特别说明,手轮将按照如图1位和B3安装方位的组合方式提供。
Note: if no special note, the handwheel will be in accordance with the figure 1 and B3 installation azimuth combination is provided.

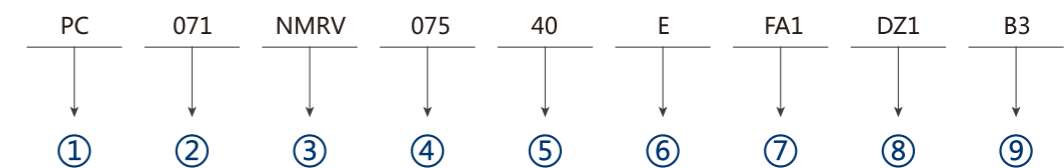
NMRV...UDL...电机接线盒位置 MOTOR TERMINAL BOX POSITION



注:如对电机接线盒位置有特别要求,订购时须参考上图的要求指定接线盒方位,否则接线盒方位将按安装方位图表中的方位提供。
Note: if the motor terminal box position have special requirements, when ordering reference is made to the above requirements specified terminal box position, or junction box range according to installation position chart position is provided.

型号说明 / MODEL ILLUMINATE

PC-NMRV前置齿轮蜗轮蜗杆减速机/WORM GEARS WITH PRE-STAGE HELICAL UNITS



| NO | 说明 | Comments |
|----|---|--|
| 1 | 前置斜齿轮减速代号 | Helical Pre-stage unit |
| 2 | 电机座号 | Motor frame size |
| 3 | 型号代码: 1. RV孔输入带输入法兰 2. NRV轴输入不带输入法兰 | Model code 1. NMRV:Hole input with flange 2. NRV:Shaft input without flange |
| 4 | 减速机中心距(规格) | Central distance of worm gear units(spec) |
| 5 | 减速机速比 (i=5,7.5,10,15,20,25,30,40,50,60,80,100) | Speed ratio of reducer r(i=5,7.5;10;15;20;25;30;40;50;60;80;100) |
| 6 | 1. 无代号表示不带蜗杆同向尾出轴 2. E:带蜗杆同向尾出轴 | 1. No mark means single extension worm shaft 2. E: Double extension worm shaft |
| 7 | 1. 无代号表示不带输出法兰 2. FA,FB,FC,FD,FE(1/2):输出法兰号和位置 | 1. No mark means without output flange 2. FA,FB,FC,FD,FE(1/2):output Flange and position |
| 8 | 1. 无代号表示孔输出 2. DZ(1/2):单向输出轴和位置 3. SZ:双向输出轴 | 1. No mark means hole output 2. DZ(1/2):Single output shaft and position 3. SZ:Double output shaft |
| 9 | 安装方位代号 | Installation position code |

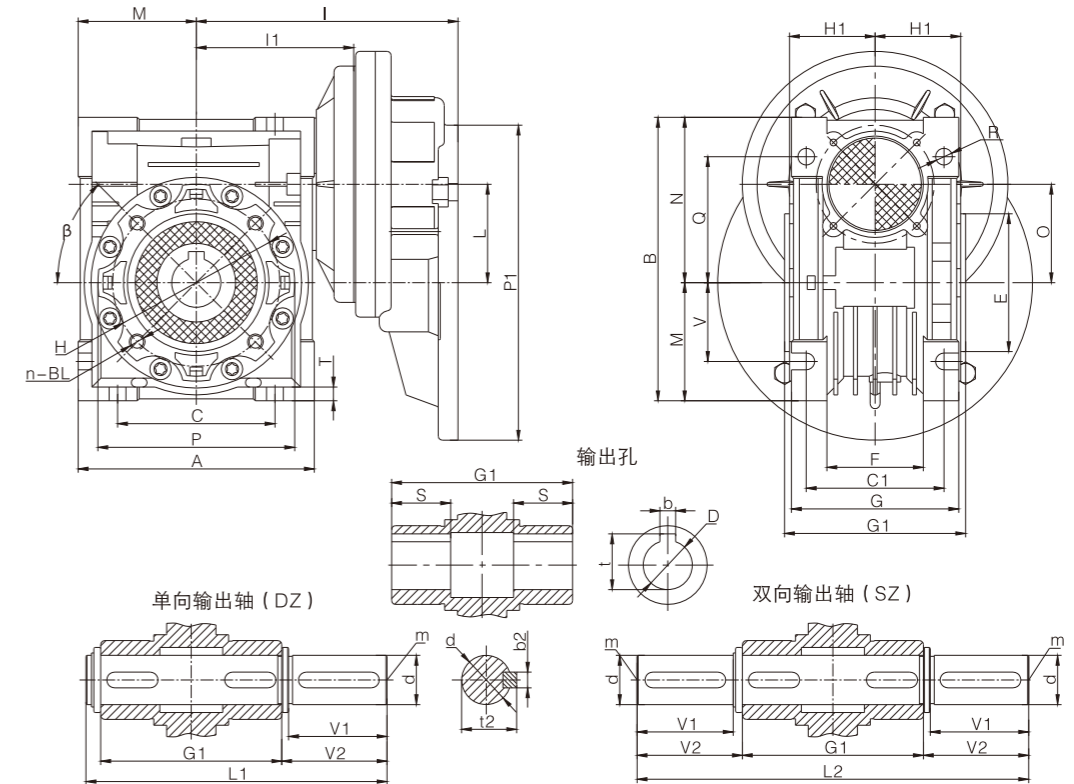
订单时请说明是否带电机,一般按不带电机供应。

When ordering, you should show whether the reducers are equipped with motors, otherwise reducers aren't supplied with motors.

PC+NMRV产品介绍 / DURING INTRODUCTION PC+NMRV



PC+NMRV尺寸 / SIZE OF PC+NMRV



| PC-NMRV | A | B | C | C1 | D(H7) | E(h8) | F | G | G1 | H | H1 | I | I1 | L | L1 | L2 | M | N | O | P | P1 | Q | R |
|--------------|-----|-------|-----|-----|--------|-------|----|-----|-----|-----|------|-------|-------|----|-----|-----|-------|-------|-----|-----|-----|-----|-----|
| 063-040 | 100 | 121.5 | 70 | 60 | 18(19) | 60 | 43 | 71 | 78 | 75 | 36.5 | 115 | 70 | 40 | 128 | 164 | 50 | 71.5 | 40 | 87 | 140 | 55 | 6.5 |
| 063-050 | 120 | 144 | 80 | 70 | 25(24) | 70 | 49 | 85 | 92 | 85 | 43.5 | 125 | 80 | 40 | 153 | 199 | 60 | 84.0 | 50 | 100 | 140 | 64 | 8.5 |
| 063-063 | 144 | 174 | 100 | 85 | 25(28) | 80 | 67 | 103 | 112 | 95 | 53.0 | 140 | 95 | 40 | 173 | 219 | 72 | 102 | 63 | 110 | 140 | 80 | 8.5 |
| 071-050 | 120 | 144 | 80 | 70 | 25(24) | 70 | 49 | 85 | 92 | 85 | 43.5 | 133 | 80 | 48 | 153 | 199 | 60 | 84.0 | 50 | 100 | 160 | 64 | 8.5 |
| 071-063 | 144 | 174 | 100 | 85 | 25(28) | 80 | 67 | 103 | 112 | 95 | 53.0 | 148 | 95 | 48 | 173 | 219 | 72 | 102 | 63 | 110 | 160 | 80 | 8.5 |
| 071-075 | 172 | 205 | 120 | 90 | 28(35) | 95 | 72 | 112 | 120 | 115 | 57.0 | 165.5 | 112.5 | 48 | 192 | 247 | 86 | 119 | 75 | 140 | 160 | 93 | 11 |
| 071-090 | 206 | 238 | 140 | 100 | 35(38) | 110 | 74 | 130 | 140 | 130 | 67.0 | 182.5 | 129.5 | 48 | 234 | 309 | 103 | 135 | 90 | 160 | 160 | 102 | 13 |
| 080-075 | 172 | 205 | 120 | 90 | 28(35) | 95 | 72 | 112 | 120 | 115 | 57.0 | 182 | 112.5 | 62 | 192 | 247 | 86 | 119 | 75 | 140 | 200 | 93 | 11 |
| 080-090 | 206 | 238 | 140 | 100 | 35(38) | 110 | 74 | 130 | 140 | 130 | 67.0 | 199 | 129.5 | 62 | 234 | 309 | 103 | 135 | 90 | 160 | 200 | 102 | 13 |
| 080(090)-110 | 255 | 295 | 170 | 115 | 42 | 130 | / | 144 | 155 | 165 | 74.0 | 229.5 | 160 | 62 | 249 | 324 | 127.5 | 167.5 | 110 | 200 | 200 | 125 | 14 |
| 080(090)-130 | 293 | 335 | 200 | 120 | 45 | 180 | / | 155 | 170 | 215 | 81.0 | 248.5 | 179 | 62 | 265 | 340 | 146.5 | 187.5 | 130 | 250 | 200 | 140 | 16 |

| PC-NMRV | S | T | BL | β | b | b2 | t | t2 | d(h6) | m | V | V1 | V2 |
|--------------|----|-----|-------------|-----|--------|----|------------|------|-------|-----|-----|----|------|
| 063-040 | 26 | 6.5 | M6X8(n=4) | 45° | 6(6) | 6 | 20.8(21.8) | 20.5 | 18 | M6 | 35 | 40 | 43.0 |
| 063-050 | 30 | 7 | M8X10(n=4) | 45° | 8(8) | 8 | 28.3(27.3) | 28.0 | 25 | M10 | 40 | 50 | 53.5 |
| 063-063 | 36 | 8 | M8X14(n=8) | 45° | 8(8) | 8 | 28.3(31.3) | 28.0 | 25 | M10 | 50 | 50 | 53.5 |
| 071-050 | 30 | 7 | M8X10(n=4) | 45° | 8(8) | 8 | 28.3(27.3) | 28.0 | 25 | M10 | 40 | 50 | 53.5 |
| 071-063 | 36 | 8 | M8X14(n=8) | 45° | 8(8) | 8 | 28.3(31.3) | 28.0 | 25 | M10 | 50 | 50 | 53.5 |
| 071-075 | 40 | 10 | M8X14(n=8) | 45° | 8(10) | 8 | 31.3(38.3) | 31.0 | 28 | M10 | 60 | 60 | 63.5 |
| 071-090 | 45 | 11 | M10X18(n=8) | 45° | 10(10) | 10 | 38.3(41.3) | 38.0 | 35 | M12 | 70 | 80 | 84.5 |
| 080-075 | 40 | 10 | M8X14(n=8) | 45° | 8(10) | 8 | 31.3(38.3) | 31.0 | 28 | M10 | 60 | 60 | 63.5 |
| 080-090 | 45 | 11 | M10X18(n=8) | 45° | 10(10) | 10 | 38.3(41.3) | 38.0 | 35 | M12 | 70 | 80 | 84.5 |
| 080(090)-110 | 50 | 14 | M10X18(n=8) | 45° | 12 | 12 | 45.3 | 48.5 | 42 | M16 | 85 | 80 | 84.5 |
| 080(090)-130 | 60 | 15 | M12X21(n=8) | 45° | 14 | 14 | 48.8 | 53.5 | 45 | M16 | 100 | 80 | 85.0 |

PC-NMRV组合 / PC-NMRV COMBINATIONS

| | i | PC 063 | | PC 071 | | PC 080 | | | PC 090 | | |
|---------|-----|------------------|------------------|------------------|------------------|---------------|---------------|---------------|------------------|------------------|------------------|
| | | 105/11 i=2.93 | 105/14 i=2.93 | 120/14 i=2.94 | 120/19 i=2.94 | 160/19 i=3 | 160/24 i=3 | 160/28 i=3 | 160/19 i=2.45 | 160/14 i=2.45 | 160/28 i=2.45 |
| NMRV040 | 25 | | | | | | | | | | |
| | 30 | | | | | | | | | | |
| | 40 | | | | | | | | | | |
| | 50 | | | | | | | | | | |
| | 60 | | | | | | | | | | |
| | 80 | | | | | | | | | | |
| | 100 | | | | | | | | | | |
| NMRV050 | 25 | | | | | | | | | | |
| | 30 | | | | | | | | | | |
| | 40 | | | | | | | | | | |
| | 50 | | | | | | | | | | |
| | 60 | | | | | | | | | | |
| NMRV063 | 25 | | | | | | | | | | |
| | 30 | | | | | | | | | | |
| | 40 | | | | | | | | | | |
| | 50 | | | | | | | | | | |
| | 60 | | | | | | | | | | |
| NMRV075 | 25 | | | | | | | | | | |
| | 30 | | | | | | | | | | |
| | 40 | | | | | | | | | | |
| | 50 | | | | | | | | | | |
| | 60 | | | | | | | | | | |
| NMRV090 | 25 | | | | | | | | | | |
| | 30 | | | | | | | | | | |
| | 40 | | | | | | | | | | |
| | 50 | | | | | | | | | | |
| | 60 | | | | | | | | | | |
| NMRV110 | 25 | | | | | | | | | | |
| | 30 | | | | | | | | | | |
| | 40 | | | | | | | | | | |
| | 50 | | | | | | | | | | |
| | 60 | | | | | | | | | | |
| NMRV130 | 25 | | | | | | | | | | |
| | 30 | | | | | | | | | | |
| | 40 | | | | | | | | | | |
| | 50 | | | | | | | | | | |
| | 60 | | | | | | | | | | |

减速机选型表 / GEAR UNIT SELECTION TABLES

PC...NMRV...(n₁=1400r/min) 性能参数 PERFORMANCE PARAMETER

| P _{in} (kw) | n ₂ (r/min) | i | M _{2n} (Nm) | F ₂ (N) | f _s | | |
|-------------------------|---------------------------|-----|-------------------------|-----------------------|----------------|---------------|------|
| 0.12 | 18.7 | 75 | 42 | 2833 | 1.2 | PC063-NMRV040 | 6314 |
| | 15.6 | 90 | 46 | 3011 | 1.2 | | |
| | 11.7 | 120 | 57 | 3314 | 0.9 | | |
| | 9.3 | 150 | 66 | 3490 | 0.7 | | |
| | 7.8 | 180 | 74 | 3490 | 0.6 | | |
| | 9.3 | 150 | 68 | 4840 | 1.3 | PC063-NMRV050 | 6314 |
| | 7.8 | 180 | 75 | 4840 | 1.1 | | |
| | 5.8 | 240 | 88 | 4840 | 0.8 | | |
| | 4.7 | 300 | 98 | 4840 | 0.7 | | |
| | 5.8 | 240 | 92 | 6270 | 1.5 | | |
| 4.7 | 300 | 103 | 6270 | 1.2 | PC063-NMRV063 | 6314 | |
| 0.18 | 18.7 | 75 | 64 | 2833 | 0.8 | PC063-NMRV040 | 6324 |
| | 15.6 | 90 | 70 | 3011 | 0.8 | | |
| | 11.7 | 120 | 85 | 3314 | 0.6 | | |
| | 18.7 | 75 | 64 | 3889 | 1.4 | PC063-NMRV050 | 6324 |
| | 15.6 | 90 | 71 | 4132 | 1.5 | | |
| | 11.7 | 120 | 87 | 4548 | 1.1 | | |
| | 9.3 | 150 | 101 | 4840 | 0.9 | | |
| | 7.8 | 180 | 113 | 4840 | 0.7 | | |
| | 5.8 | 240 | 133 | 4840 | 0.6 | | |
| | 9.3 | 150 | 103 | 6270 | 1.7 | | |
| | 7.8 | 180 | 117 | 6270 | 1.4 | PC063-NMRV063 | 6324 |
| | 5.8 | 240 | 139 | 6270 | 1.0 | | |
| | 4.7 | 300 | 155 | 6270 | 0.8 | | |
| | 12.0 | 75 | 95 | 4506 | 1.2 | PC071-NMRV050 | 7116 |
| | 10.0 | 90 | 105 | 4788 | 1.4 | | |
| | 7.5 | 120 | 126 | 4840 | 1.0 | | |
| | 12.0 | 75 | 97 | 5889 | 2.2 | | |
| | 10.0 | 90 | 107 | 6259 | 2.4 | | |
| | 7.5 | 120 | 131 | 6270 | 1.8 | PC071-NMRV063 | 7116 |
| | 6.0 | 150 | 152 | 6270 | 1.4 | | |
| 5.0 | 180 | 168 | 6270 | 1.2 | | | |
| 3.8 | 240 | 197 | 6270 | 0.9 | | | |
| 3.0 | 300 | 218 | 6270 | 0.7 | | | |
| 5.0 | 180 | 179 | 7380 | 1.7 | PC071-NMRV075 | 7116 | |
| 3.8 | 240 | 211 | 7380 | 1.2 | | | |
| 3.0 | 300 | 235 | 7380 | 1.0 | | | |
| 0.25 | 18.7 | 75 | 88 | 3889 | 1.0 | PC071-NMRV050 | 7114 |
| | 15.6 | 90 | 98 | 4132 | 1.1 | | |
| | 11.7 | 120 | 121 | 4548 | 0.8 | | |
| | 18.7 | 75 | 91 | 5083 | 1.8 | PC071-NMRV063 | 7114 |
| | 15.6 | 90 | 100 | 5401 | 2.0 | | |
| | 11.7 | 120 | 125 | 5945 | 1.5 | | |
| | 9.3 | 150 | 143 | 6270 | 1.2 | | |
| | 7.8 | 180 | 163 | 6270 | 1.0 | | |
| | 5.8 | 240 | 192 | 6270 | 0.7 | PC071-NMRV063 | 7114 |
| | 4.7 | 300 | 215 | 6270 | 0.6 | | |
| 12.0 | 75 | 135 | 5889 | 1.6 | | | |
| 10 | 90 | 148 | 6259 | 1.8 | PC071-NMRV063 | 7126 | |

减速机选型表 / GEAR UNIT SELECTION TABLES

 PC...NMRV...(n₁=1400r/min) 性能参数 PERFORMANCE PARAMETER

| P _{in} (kw) | n ₂ (r/min) | i | M _{2n} (Nm) | F _{r2} (N) | fs | | |
|-------------------------|---------------------------|-----|-------------------------|------------------------|---------------|---------------|------|
| 0.25 | 7.5 | 120 | 181 | 6270 | 1.3 | PC071-NMRV063 | 7126 |
| | 6.0 | 150 | 211 | 6270 | 1.0 | | |
| | 9.3 | 150 | 151 | 7380 | 1.7 | PC071-NMRV075 | 7114 |
| | 7.8 | 180 | 172 | 7380 | 1.4 | | |
| | 5.8 | 240 | 201 | 7380 | 1.1 | | |
| | 4.7 | 300 | 230 | 7380 | 0.9 | | |
| | 12.0 | 75 | 139 | 6952 | 2.4 | PC071-NMRV075 | 7126 |
| | 10.0 | 90 | 155 | 7380 | 2.5 | | |
| | 7.5 | 120 | 191 | 7380 | 1.9 | | |
| | 6.0 | 150 | 219 | 7380 | 1.5 | | |
| | 5.0 | 180 | 248 | 7380 | 1.2 | PC071-NMRV090 | 7126 |
| | 5.0 | 180 | 263 | 8180 | 1.9 | | |
| | 3.8 | 240 | 318 | 8180 | 1.4 | | |
| | 3.0 | 300 | 358 | 8180 | 1.1 | | |
| | 18.7 | 75 | 134 | 5083 | 1.2 | PC071-NMRV063 | 7124 |
| | 15.6 | 90 | 148 | 5401 | 1.4 | | |
| 11.7 | 120 | 185 | 5945 | 1.0 | | | |
| 9.3 | 150 | 212 | 6270 | 0.8 | | | |
| 0.37 | 18.7 | 75 | 138 | 6000 | 1.8 | PC071-NMRV075 | 7124 |
| | 15.6 | 90 | 154 | 6375 | 1.9 | | |
| | 11.7 | 120 | 191 | 7017 | 1.5 | | |
| | 9.3 | 150 | 223 | 7380 | 1.1 | | |
| | 7.8 | 180 | 254 | 7380 | 0.9 | PC080-NMRV075 | 8016 |
| | 12.0 | 75 | 206 | 6952 | 1.6 | | |
| | 10.0 | 90 | 230 | 7380 | 1.7 | | |
| | 7.5 | 120 | 283 | 7380 | 1.3 | | |
| | 6.0 | 150 | 324 | 7380 | 1.0 | PC071-NMRV090 | 7124 |
| | 7.8 | 180 | 268 | 8180 | 1.5 | | |
| | 5.8 | 240 | 321 | 8180 | 1.1 | | |
| | 4.7 | 300 | 371 | 8180 | 0.9 | | |
| | 6.0 | 150 | 347 | 8180 | 1.6 | PC080-NMRV090 | 8016 |
| | 5.0 | 180 | 389 | 8180 | 1.3 | | |
| 3.8 | 240 | 471 | 8180 | 1.0 | | | |
| 3.0 | 300 | 509 | 10320 | 1.6 | | | |
| 3.0 | 300 | 577 | 10320 | 1.3 | PC080-NMRV110 | 8016 | |
| 18.7 | 75 | 205 | 6000 | 1.2 | | | |
| 15.6 | 90 | 230 | 6375 | 1.3 | | | |
| 11.7 | 120 | 284 | 7017 | 1.0 | | | |
| 0.55 | 9.3 | 150 | 332 | 7380 | 0.8 | PC080-NMRV075 | 8014 |
| | 12.0 | 75 | 306 | 6952 | 1.1 | | |
| | 10.0 | 90 | 341 | 7380 | 1.1 | | |
| | 15.6 | 90 | 240 | 7054 | 2.3 | | |
| | 11.7 | 120 | 297 | 7764 | 1.6 | PC080-NMRV090 | 8014 |
| | 9.3 | 150 | 355 | 8180 | 1.3 | | |
| | 7.8 | 180 | 398 | 8180 | 1.0 | | |
| | 10.0 | 90 | 357 | 8174 | 2.0 | | |
| | 7.5 | 120 | 441 | 8180 | 1.4 | PC080-NMRV090 | 8026 |
| | 6.0 | 150 | 516 | 8180 | 1.1 | | |
| | 5.0 | 180 | 578 | 8180 | 0.9 | | |


减速机选型表 / GEAR UNIT SELECTION TABLES

 PC...NMRV...(n₁=1400r/min) 性能参数 PERFORMANCE PARAMETER

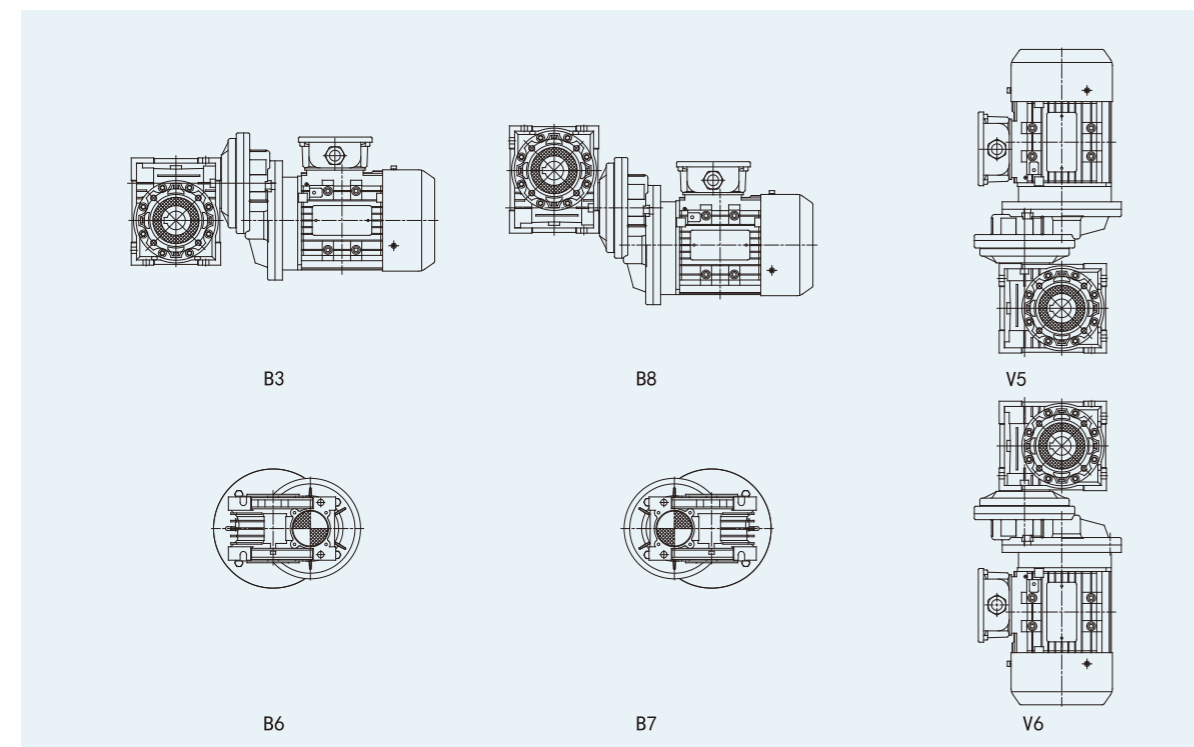
| P _{in} (kw) | n ₂ (r/min) | i | M _{2n} (Nm) | F _{r2} (N) | fs | | |
|-------------------------|---------------------------|-------|-------------------------|------------------------|---------------|---------------|---------------|
| 0.55 | 7.8 | 180 | 425 | 10320 | 1.8 | PC080-NMRV110 | 8014 |
| | 5.8 | 240 | 513 | 10320 | 1.3 | | |
| | 4.7 | 300 | 597 | 10320 | 1.0 | | |
| | 7.5 | 120 | 462 | 10320 | 2.6 | PC080-NMRV110 | 8026 |
| | 6.0 | 150 | 552 | 10320 | 2.0 | | |
| | 5.0 | 180 | 620 | 10320 | 1.6 | | |
| | 3.8 | 240 | 756 | 10320 | 1.1 | | |
| | 3.8 | 240 | 756 | 13500 | 1.6 | PC080-NMRV130 | 8026 |
| | 3.0 | 300 | 858 | 13500 | 1.3 | | |
| | 0.75 | 18.7 | 75 | 280 | 6000 | 0.9 | PC080-NMRV075 |
| 15.6 | | 90 | 313 | 6375 | 1.0 | | |
| 15.6 | | 90 | 327 | 7054 | 1.7 | | |
| 11.7 | | 120 | 405 | 7764 | 1.2 | PC080-NMRV090 | 8024 |
| 9.3 | | 150 | 483 | 8180 | 0.9 | | |
| 7.8 | | 180 | 543 | 8180 | 0.7 | | |
| 11.7 | | 120 | 430 | 9811 | 2.2 | | |
| 9.3 | | 150 | 506 | 10320 | 1.7 | PC080-NMRV110 | 8024 |
| 7.8 | | 180 | 580 | 10320 | 1.3 | | |
| 5.8 | | 240 | 700 | 10320 | 0.9 | | |
| 12.4 | | 73 | 393 | 9614 | 3.2 | | |
| 9.3 | | 96.8 | 508 | 10320 | 2.3 | PC090-NMRV110 | 90S6 |
| 7.4 | | 121 | 607 | 10320 | 1.8 | | |
| 6.2 | | 145.2 | 682 | 10320 | 1.5 | | |
| 4.6 | | 193.6 | 832 | 10320 | 1.0 | | |
| 5.8 | | 240 | 712 | 13500 | 1.4 | PC080-NMRV130 | 8024 |
| 4.7 | | 300 | 813 | 13500 | 1.1 | | |
| 12.4 | | 73 | 399 | 12575 | 4.4 | PC090-NMRV130 | 90S6 |
| 9.3 | 96.8 | 508 | 13500 | 3.2 | | | |
| 7.4 | 121 | 607 | 13500 | 2.6 | | | |
| 6.2 | 145.2 | 682 | 13500 | 2.1 | | | |
| 4.6 | 193.6 | 832 | 13500 | 1.5 | PC090-NMRV130 | 90S6 | |
| 3.7 | 242 | 944 | 13500 | 1.2 | | | |
| 12.4 | 73 | 576 | 9614 | 2.2 | | | |
| 9.3 | 96.8 | 746 | 10320 | 1.6 | | | |
| 1.1 | 7.4 | 121 | 890 | 10320 | 1.2 | PC090-NMRV110 | 90L6 |
| | 6.2 | 145.2 | 1000 | 10320 | 1.0 | | |
| | 19.3 | 73 | 392 | 8298 | 2.5 | | |
| | 14.5 | 96.8 | 508 | 9133 | 1.8 | | |
| | 11.6 | 121 | 599 | 9838 | 1.5 | PC090-NMRV110 | 90S4 |
| | 9.6 | 145.2 | 686 | 10320 | 1.1 | | |
| | 7.2 | 193.6 | 828 | 10320 | 0.8 | | |
| | 12.4 | 73 | 585 | 12575 | 3.0 | | |
| | 9.3 | 96.8 | 746 | 13500 | 2.2 | PC090-NMRV130 | 90L6 |
| | 7.4 | 121 | 890 | 13500 | 1.7 | | |
| | 6.2 | 145.2 | 1000 | 13500 | 1.4 | | |
| | 4.6 | 193.6 | 1220 | 13500 | 1.0 | | |
| | 19.3 | 73 | 398 | 10853 | 3.5 | PC090-NMRV130 | 90S4 |
| | 14.5 | 96.8 | 508 | 11945 | 2.6 | | |
| | 11.6 | 121 | 608 | 12868 | 2.0 | | |

减速机选型表 / GEAR UNIT SELECTION TABLES

PC...NMRV...(n1=1400r/min) 性能参数 PERFORMANCE PARAMETER

| P_{in} (kw) | n_2 (r/min) | i | M_{2n} (Nm) | F_{r2} (N) | f_s |  |  |
|------------------|------------------|-------|------------------|-----------------|-------|---|---|
| 1.1 | 9.6 | 145.2 | 686 | 13500 | 1.6 | PC090-NMRV130 | 90S4 |
| | 7.2 | 193.6 | 843 | 13500 | 1.2 | | |
| | 5.8 | 242 | 962 | 13500 | 0.9 | | |
| 1.5 | 19.3 | 73 | 535 | 8298 | 1.9 | PC090-NMRV110 | 90L4 |
| | 14.5 | 96.8 | 693 | 9133 | 1.3 | | |
| | 11.6 | 121 | 817 | 9838 | 1.1 | | |
| | 9.6 | 145.2 | 936 | 10320 | 0.8 | | |
| | 19.3 | 73 | 542 | 10853 | 2.6 | PC090-NMRV130 | 90L4 |
| | 14.5 | 96.8 | 693 | 11945 | 1.9 | | |
| | 11.6 | 121 | 830 | 12868 | 1.5 | | |
| | 9.6 | 145.2 | 936 | 13500 | 1.1 | | |
| 2.2 | 7.2 | 194 | 1149 | 13500 | 0.8 | PC090-NMRV110 | 90L2 |
| | 38.6 | 73 | 398 | 6586 | 2.1 | | |
| | 28.9 | 96.8 | 516 | 7249 | 1.5 | | |
| | 23.1 | 121 | 617 | 7809 | 1.2 | PC090-NMRV130 | 90L2 |
| | 38.6 | 73 | 409 | 8614 | 2.9 | | |
| | 28.9 | 96.8 | 545 | 9481 | 2.0 | | |
| | 23.1 | 121 | 654 | 10213 | 1.6 | | |
| 19.3 | 145.2 | 752 | 10853 | 1.3 | | | |

PC与NMRV安装方位 / PC AND NMRV INSTALLATION POSITION



注：如没有特别说明，以B3为标准安装方式
Note: if there is no special instructions to B3 standards for installation.

DIRECTIONS FOR USE

使用说明

使用限制 / INSTALLATION

NMRV系列安装使用与保养 / NMRV INSTALLATION USAGE & MAINTENANCE

UDL系列安装使用与保养 / UDL INSTALLATION USAGE & MAINTENANCE

润滑油 / LUBRICATION

订货须知 / NOTICE FOR ORDERING

标准电机外形参考尺寸 / STANDARD MOTOR EXTERNAL REFERENCE DIMENSION

这本样本给出的参数基本上是按B3安装方位来编的，即第一级没有完全浸入油中。对于其他安装方位和输入转速，请参考下面表格中相应参数。当遇到下列应用情况时，如有必要请与我们技术服务人员联系。

- ① 在原有上提高转速时。
- ② 应用在惯性特别大的设备上时。
- ③ 应用在如升降机（需要自锁考虑）时。
- ④ 当减速机出现故障有可能会对操作者造成危害时。
- ⑤ 当减速机出现过度疲劳状态时。
- ⑥ 工作环境温度低于 - 5°C或高于40°C时。
- ⑦ 在化学腐蚀环境中使用时。
- ⑧ 在盐性环境中使用时。
- ⑨ 在辐射性高的环境中使用时。
- ⑩ 在环境气压不在正常大气压力下使用时。
- ⑪ 安装方位在这样本中没有提到时。

避免将减速机部分或整台浸入水里或其他液体中。

减速机承受的最大负载扭矩不能超过两倍于性能参数表中规定的正常扭矩（当使用参数 $f_s = 1$ 时）：这里最大负载扭矩是指能承受瞬间短暂适度的过载，它出现在过载启动、刹车、振动或其他动态操作环境中。

CRITICAL APPLICATIONS

The performance given in the catalogue corresponds to mounting position B3 or similar, it means the first stage is not entirely immersed in oil. For other mounting positions and particular input speeds, refer to the tables that highlight different critical situations for each size of reduction unit. When faced with the following application, please contact our technical service if necessary.

- ① As a speed increasing.
- ② Applications with especially high inertia.
- ③ Use as a lifting winch. (Think about irreversibility)
- ④ Use in services that could be hazardous for people if the reduction unit fails.
- ⑤ Applications with high dynamic strain on the case of the reduction unit.
- ⑥ In places with a temperatures T under -5°C or over 40°C.
- ⑦ Use in chemically aggressive environments.
- ⑧ Use in a salty environments.
- ⑨ Use in radioactive environments.
- ⑩ Use in environments pressures other than atmospheric pressure.
- ⑪ Mounting positions not envisaged in the catalogue.

Avoid applications where even partial immersion of the reduction unit is required.

The maximum torque that the gear reducer can support must not exceed two times the nominal torque ($f_s = 1$) stated in the performance tables. Intended for momentary overloads due to starting at full load, braking, shocks or other causes, particularly those that are dynamic.

安装减速机时要注意以下一些事项：

- ① 减速机与机械设备装配之前，要检查减速机输出轴的旋转方向是否正确。
- ② 减速机与原动机、设备装配之前，应检查各轴径、孔径、键和键槽的偏差尺寸，避免装配过紧、过松影响减速机性能。
- ③ 减速机必须牢固地安装在机械设备上，避免有松动或振动。
- ④ 尽可能地避免减速机暴露在烈日阳光下和恶劣环境中。
- ⑤ 如果减速机存放时间长达4 - 6个月，应检查油封是否浸润在润滑油中，可能油封唇口会粘在轴上，甚至失去了弹性，由于适当的弹性是油封必须的工作条件，所以推荐更换油封。
- ⑥ 所有橡胶件和透气孔不能沾有油漆。
- ⑦ 与减速机的空心轴配合连接时，应在轴上配合部分涂上润滑油，以免卡死或氧化。
- ⑧ 使用时必须检查油位（如油位镜孔或打开油塞，小型号是没有的）
- ⑨ 使用新减速机时，不能满负载启动，应该逐步增大负载。
- ⑩ 使用各类电机直联型减速器时，若电机重量偏大，应设支撑装置。
- ⑪ 确保电机风扇附近有良好的通风环境，以免影响散热效果。
- ⑫ 减速机的标准工作环境温度是 - 5°C至40°C，如果不在这范围时，请与我们技术服务人员联系。

To install the reduction unit is necessary to note the following recommendations:

- ① Check the correct direction of the reduction unit output shaft before fitting the unit to the machine.
- ② Before mount with the prime mover and device, please check the reducer's every axial diameter, aperture, key and key slot, to be sure their dimension are not deviation, and avoid assembling too tight or too loose, unless it will influence the reducer's performance.
- ③ The mounting on the machine must be stable to avoid any vibration.
- ④ Whenever possible, protect the reduction unit against solar radiation and bad weather.
- ⑤ In the case of particularly lengthy periods of storage(4-6 months), if the oil seal is not immersed in the lubricant inside the unit, it is recommended to change it since the rubber could stick to the shaft or may even have lost the elasticity it needs to function properly.
- ⑥ Painting must definitely not go over rubber parts and the holes on the breather plugs, if any.
- ⑦ When connect with hollow or solid shaft, please grease the joint to avoid lock or oxidation.
- ⑧ Check the correct level of the lubricant through the indicator, if there is one.
- ⑨ Starting must take place gradually, without immediately applying the maximum load.
- ⑩ Supporting unit is required when using various of reducer matched with motor directly and the good passage of the air from the fan side.
- ⑪ Ensure good ventilation environment near the motor fan, lest affect the cooling effect..
- ⑫ In the case of ambient temperatures < -5°C or > +40°C call the Technical Service.

- ① 轴伸形式全部为圆柱形，按《圆柱形轴伸》GB1569-1990选定，键联接按《普通平键》GB1095 - 2003选定。
- ② 联轴器与电动机连接时应使轴线保持同心，安装误差不应大于所用联轴器的允许误差值。
- ③ 输出轴装联轴器或带轮时，用轴端螺孔压入，或加热装备，严禁捶打！
- ④ 机械无级变速器不宜用于可能超负荷或堵转适用场合。
- ⑤ 调速应在运转进行，严禁停车转动调速手轮！
- ⑥ 操作盒下的两端调速限位螺钉已调整好，请勿再动！
- ⑦ 本机不宜工作在高于40°C的环境中，温升不得高于45°C。关于本机的温升请看下面的介绍：
变速器采用四级电机时，此时部件在跑合（空车运转）开始，温度高于正常工作环境温度约为40 - 50°C。跑合60 - 80小时后，温升逐渐下降，此后温度高于环境温度20°C，并保持稳定的温升，跑合时高的温升影响正常工作条件，但对部件的使用寿命并无有害影响。
- ⑧ 变速器采用润滑油油浴润滑。润滑油牌号为Ub-3x，使用前请检查油位。
- ⑨ 出厂前润滑油已加入，首次使用1000小时后应更换润滑油，以后每隔5000小时换一次油。
- ⑩ 变速器内润滑油应保持的油标的三分之二高度，用户应经常检查油位高度，严禁在润滑不良的情况下使用。操作盒上的透气螺母出厂时为防止搬运中漏油已旋紧，运转时需松开，严禁未松开使用！

- ① The shapes of shaft extension are all cylindrical. It is subject to GB1569-1990 Cylindrical shaft extension. The key joint refers to GB1095-2003 Ordinary flat key.
- ② The shaft lines should be kept concentric when the coupling is connected with a motor. The installation error should be no more than the tolerance value of coupling.
- ③ When the output shaft is installed with the coupling or belt wheel, they should be pressed into the screw hole on shaft end. Or assembled by heating. No hammering on it!
- ④ The mechanical stepless variator is not used in such an occasion wheel overload or running-blockage happen to occur.
- ⑤ Speed-regulation should be effected in running. Do not turn the hand wheel of speed-regulation when the machine stops!
- ⑥ The limit screws of speed-regulation on two ends under the operating box are well adjusted, Please don't touch them!
- ⑦ This set is not suited to work in the environment over 40°C, especially no more than 45°C when the temperature rises. In regard to its temperature rise. In regard to its temperature rise please read the explanation as follows:

If a 4-pole motor is used for the speed variator, the temperature under running-in(empty running) is 40-50°C higher than that of normal working environment. After running-in up to 60-80hours, the temperature rise will go down gradually. From that time on, it is 20°C higher than of environment, and the temperature will keep on rising stably. The high temperature rise in running will affect normal permissible working condition, but it won't bring any bad effects to the service life of parts.

- ⑧ The liquid lubricating oil is used for the speed variator. Its trade mark is Ub-3x. Please check up the oil level before use.
- ⑨ The machine is filled with lubricating oil before leaving factory. When it starts to work up to 2000 hours for the first time, its lubricating oil should be replaced, changing the lubricating oil every 5000 hours later.
- ⑩ The lubricating oil level inside the speed variator should be kept at the height of two-third in the oil scale. Users should usually check the height of oil level. It is strictly prohibited to operate it when short of lubricating oil. The air screw nut on the operating box is screwed up for preventing from oil leakage in moving before leaving factory. It should be loosened when it starts to run. It is strictly forbidden to use it before loosening!

工作环境温度不在表中范围内，请与我们技术服务人员联系。

当工作环境温度低于 - 30°C或高于60°C时，要使用特殊材质的油封。
当工作环境温度低于0°C时，必须考虑下列情况：

- ① 选用的电机必须在低温下能正常工作。
- ② 如果减速机箱体的材质是铸铁，在温度 - 15°C以下时，箱体可能会变得很脆，要注意尽量避免撞击。
- ③ 在开始使用阶段时，由于润滑油的粘度很高，可能会产生一些问题，所以刚开始启动时最好让它空载运转几分钟。减速机运转大约1000小时后，应更换润滑油，换油频率按减速机实际运行情况和环境温度条件而定。

- NMRV025、030、040、050、063、075、090规格的减速机在出厂时已加注了润滑油，可以按照样本中安装方位所提到的方位安装。V5或V6安装时，请与我们技术服务人员联系。
- 减速机NMRV110、130和150规格在出厂时已加注了矿物润滑油（SHELL Omala OIL 460）。
- 无级变速器在出厂时也加注了矿物润滑油（广研Ub-3x）。
- 减速机NMRV110、130和150规格的安装方位在下单时要说明，否则润滑油理按B3方位提供。
- NMRV系列的减速机，在特定的工作环境，需配排气阀（可选配件）。
- PC已加注了耐用的合成油润滑油（SHELL TEVELA OIL 320），因此能够安装任何方位。

In cases of ambient temperature not envisaged in the table, call our Technical Service.

In the case of temperature -30°C or over 60°C. It is necessary to use oil seals with special material. For operating ranges with temperatures under 0°C. It is necessary to consider the following.

- ① The motors need to be suitable for operation at the envisaged ambient temperature.
- ② In the case of reduction units with a cast-iron case, pay attention to impact loads since cast iron may have problems of fragility at temperatures under-15°C.
- ③ During the early stages of service, problems of lubrication may arise due to the high level of viscosity taken on by the oil and so it is wise to have a few minutes of rotation under no load.

The oil needs to be changed after approximately 10.000 hours. This period depends on the type of service and the environment where the reduction unit works.

- The reduction units size NMRV025、030、040、050、063、075、090 are supplied complete with lubricant, and can therefore be mounted in any position envisaged in the catalogue. V5/V6 for which you should call our Technical Service to assess the conditions of use.
- The reduction units size 110 and 130 are supplied complete with lubricant, mineral oil,(SHELL TEVELA OIL 320)
- The variator speed are supplied complete with lubricant, mineral oil(GUANGYAN Ub-3x)
- For sizes 110 and 130 it is necessary to specify the position, otherwise the reduction units are supplied with the quantity of oil relating to pos. B3.
- NMRV series worm gearbox should mount breather plug (optional parts) under special working condition.
- PC is supplied complete with lift-long lubricant, synthetic oil (SHELL TEVELA OIL 320), and can therefore be mounted in all the positions.

润滑油选用表 / LUBRICANTS OIL CHOSEN TABLE

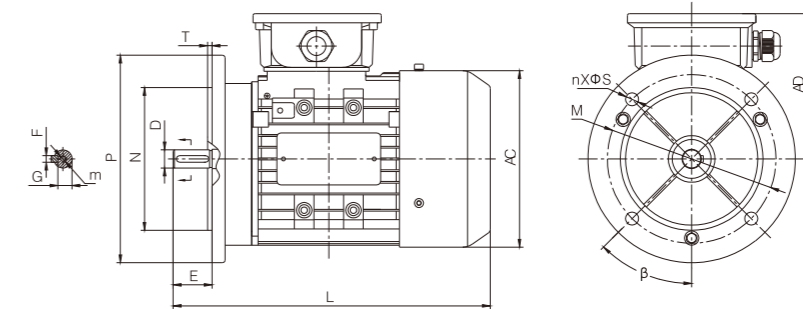
| | | ISO | SHELL | AGIP | ESSO | MOBIL | CASTROL | BP | 广研 | |
|--------------------------|-----------|-------|-----------------|---------------|---------------|---------------|----------------|------------------|--------|----------------------|
| NMRV025~090 PC063~090 | -25 0 +50 | VG320 | Tivela OIL S320 | Telium VSF320 | S220 | Glygoyle 30 | Alphasyn Pg320 | Energol SG-XP320 | | 合成油 Synthetic oil |
| NMRV110~150 | -5 40 | VG460 | Omala OIL460 | Blasia 460 | Spartan Ep460 | Mobilgear 634 | Alpha MAX 460 | Energol GR-XP460 | CKE460 | 矿物油 Mineral oil |
| | -15 +25 | VG220 | Omala OIL220 | Blasia 220 | Spartan Ep220 | Mobilgear 630 | Alpha MAX 220 | Energol GR-XP220 | | |
| UDL | -25 40 | Vg32 | A.T.F.DXRON | A.T.F.DXRON | A.T.F.DXRON | A.T.F.220 | TQ.DXRONII | Autran DX | Ub-3x | 矿物油 Mineral oil |

| 型号 | 安装方位 | B3 | | B8 | | B6、B7 | | V5 | | V6 | | |
|----------|------|---------|------|-------|-----|-------|--|----|--|----|--|--|
| | | NMRV025 | | 0.02 | | | | | | | | |
| NMRV030 | | 0.04 | | | | | | | | | | |
| NMRV040 | | 0.075 | | | | | | | | | | |
| NMRV050 | | 0.15 | | | | | | | | | | |
| NMRV063 | | 0.30 | | | | | | | | | | |
| NMRV075 | | 0.6 | | | | | | | | | | |
| NMRV090 | | 1 | | | | | | | | | | |
| NMRV110 | | 2.5 | 2 | 2 | 2.5 | 2 | | | | | | |
| NMRV130 | | 3.5 | 3 | 3 | 3.5 | 3 | | | | | | |
| NMRV150 | | 7 | 5.1 | 5.4 | 7 | 5 | | | | | | |
| PC063 | | 0.05 | | | | | | | | | | |
| PC071 | | 0.07 | | | | | | | | | | |
| PC080 | | 0.15 | | | | | | | | | | |
| PC090 | | 0.16 | | | | | | | | | | |
| 型号 | 安装方位 | B3、B5 | | V3、V6 | | V1、V5 | | | | | | |
| | | UDL002 | 0.13 | 0.4 | | | | | | | | |
| UDL005 | | 0.23 | 0.45 | | | | | | | | | |
| UDL010 | | 0.33 | 0.43 | 1 | | | | | | | | |
| UD020 | | 0.8 | 1 | | | | | | | | | |
| UD030S/L | | 1.2 | 1.2 | | | | | | | | | |

表格规定的加注量为参考值，准确值的变化与传动比和安装方式有关。
The fill quantity in the table is referenced, the exact value relating to the ratio and mounting positions.

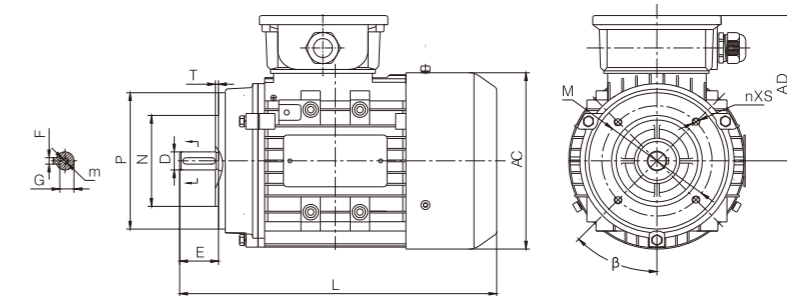
订货须知 / NOTICE FOR ORDERING

- ① 订货时请根据使用需要的转速范围，输出转矩，结构形式，对照性能参数、尺寸表、安装和操作方位图，合理选择机型，写明型号标记（下单时是否带电机请说明，一般按不带电机供应）。订货时选择的安装方位应与安装方法一致，不然容易造成漏油，影响使用寿命，若安装方位特殊请另加说明。
- ② 订货时请尽量选择本目录内的标准产品，如有特殊要求或配用特殊电机请附加说明。
- ① Please refer to the sheet of performance parameter, NMRV series dimensions, Mounting and operation positions diagram, make reasonable choice of model, and write down model mark to your required revolution scope, output torque and structural from on ordering (when ordering, you should show whether the reducers are equipped with motors, otherwise reducers aren't with motors)
- ② Please make the best choice of standard products in this catalogue, and give an additional explanation for your special requirement and motors.



B5型机座安装型式(B5 MOUNTING POSITION)

| 机座号 Frame size | 电机极数 Motor power Motor poles (kW) | | | 外型尺寸 Forfilomtry | | | | 安装尺寸 Mounted size | | | | | 轴伸尺寸 Shaft extension | | | | |
|-------------------|--------------------------------------|--------------|--------------|---------------------|-----|------------|-----|----------------------|-----|-----|---------|-----|-------------------------|----|------|--------|-------|
| | 2P | 4P | 6P | AC | AD | L | P | N | T | M | S | β | E | F | D | G | m |
| 56 | 0.09 0.12 | 0.06 0.09 | | 113 | 96 | 199 | 120 | 80 | | 100 | 7(n=4) | 45° | 20 | 3 | 9 | 7.2 | M4X12 |
| 63 | 0.18 0.25 | 0.12 0.18 | 0.09 0.12 | 120 | 102 | 217 | 140 | 95 | 3.0 | 115 | 10(n=4) | | 23 | 4 | 11 | 8.5 | M4X12 |
| 71 | 0.37 0.55 | 0.25 0.37 | 0.18 0.25 | 136 | 109 | 245 | 160 | 110 | | 130 | | | 30 | 5 | 14 | 11 | M5X12 |
| 80 | 0.75 1.10 | 0.55 0.75 | 0.37 0.55 | 155 | 124 | 287 | | | 3.5 | 165 | 12(n=4) | 40 | 6 | 19 | 15.5 | M6X16 | |
| 90S | 1.5 | 1.1 | 0.75 | | | 310 | 200 | 130 | | | | 50 | | 24 | 20 | M8X19 | |
| 90L | 2.2 | 1.5 | 1.1 | 175 | 137 | 335 | | | | | | 60 | 8 | 28 | 24 | M10X22 | |
| 100L | 3 | 2.2 | 1.5 | 195 | 151 | 383 | 250 | 180 | 4.0 | 215 | 15(n=4) | 80 | 10 | 38 | 33 | M12X28 | |
| 112M | 4 | 4.0 | 2.2 | 219 | 169 | 401 | | | | 265 | | 110 | 12 | 42 | 37 | M16X36 | |
| 132S | 5.5 7.5 | 5.5 | 3.0 | 258 | 188 | 475 513 | 300 | 230 | | | | | | | | | |
| 132M | | 7.5 | 4.0 5.5 | | | | | | | | | | | | | | |
| 160M | 11 15 | 11 | 7.5 | 315 | 242 | 609 | 350 | 250 | 5.0 | 300 | 19(n=4) | | | | | | |
| 160L | 18.5 | 15 | 11 | | | 653 | | | | | | | | | | | |



B14型机座安装型式(B14 MOUNTING POSITION)

| 机座号 Frame size | 电机极数 Motor power Motor poles (kW) | | | 外型尺寸 Forfilomtry | | | | 安装尺寸 Mounted size | | | | | 轴伸尺寸 Shaft extension | | | | |
|-------------------|--------------------------------------|--------------|--------------|---------------------|-----|------------|-----|----------------------|-----|-----|----------|-----|-------------------------|----|------|--------|-------|
| | 2P | 4P | 6P | AC | AD | L | P | N | T | M | S | β | E | F | D | G | m |
| 56 | 0.09 0.12 | 0.06 0.09 | | 113 | 96 | 199 | 80 | 50 | | 65 | M5(n=4) | 45° | 20 | 3 | 9 | 7.2 | M4X12 |
| 63 | 0.18 0.25 | 0.12 0.18 | 0.09 0.12 | 120 | 102 | 217 | 90 | 60 | 2.5 | 75 | | | 23 | 4 | 11 | 8.5 | M4X12 |
| 71 | 0.37 0.55 | 0.25 0.37 | 0.18 0.25 | 136 | 109 | 245 | 105 | 70 | | 85 | M6(n=4) | | 30 | 5 | 14 | 11 | M5X12 |
| 80 | 0.75 1.10 | 0.55 0.75 | 0.37 0.55 | 155 | 124 | 287 | 120 | 80 | 3.0 | 100 | | 40 | 6 | 19 | 15.5 | M6X16 | |
| 90S | 1.5 | 1.1 | 0.75 | | | 310 | 140 | 95 | | | | 50 | | 24 | 20 | M8X19 | |
| 90L | 2.2 | 1.5 | 1.1 | 175 | 137 | 335 | | | | 115 | M8(n=4) | 60 | 8 | 28 | 24 | M10X22 | |
| 100L | 3 | 2.2 | 1.5 | 195 | 151 | 383 | 160 | 110 | 3.5 | 130 | | 80 | 10 | 38 | 33 | M12X28 | |
| 112M | 4 | 4.0 | 2.2 | 219 | 169 | 401 | | | | 165 | M10(n=4) | 110 | 12 | 42 | 37 | M16X36 | |
| 132S | 5.5 7.5 | 5.5 | 3.0 | 258 | 188 | 475 513 | 200 | 130 | | | | | | | | | |
| 132M | | 7.5 | 4.0 5.5 | | | | | | | | | | | | | | |
| 160M | 11 15 | 11 | 7.5 | 315 | 242 | 609 | 250 | 180 | 4.0 | 215 | M12(n=4) | | | | | | |
| 160L | 18.5 | 15 | 11 | | | 653 | | | | | | | | | | | |