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杭州兴达机械有限公司



杭州兴达机械有限公司成立于1984年，总部设立于杭州，是一家集研发、生产、销售为一体，专业提供减速机，齿轮马达等动力传动解决方案的综合性企业。公司自行生产的E-WP, E-RV, E-VF, E-UDL型涡轮蜗杆减速机, E-R, E-S, E-K, E-F型齿轮减速机, E-GM齿轮马达及为客户需求定制的专用非标减速机等在同行中处于领导地位。

兴达机械把握生产过程中的每个细节，全部通过ISO9001:2008质量管理体系认证，SGS认证，拥有3项发明专利，11项实用新型专利，是浙江省科技型企业，国家高新技术企业。公司拥有高级工程师20余人，高级技工300人，大专及以上学历占30%以上。

公司占地面积50亩，拥有现代化车间面积40,000平方米，拥有世界领先的CNC加工中心，磨齿机等生产设备和多项检测设备合计300多台。年产量20万台减速机。

公司的销售网络遍布122个国家及地区，228个城市，广泛的服务于钢铁行业，冶金行业，石油机械，食品机械，包装机械，陶瓷机械，纺织机械，印刷机械，木工机械，玻璃机械，化工机械，起重设备，船舶工业，清洁行业，高压开关及健身器材等各种领域。

兴达机械秉承“诚信经营，质量第一，开拓创新，与时俱进”的宗旨，以精湛的技术，优质的产品，完善的服务，朝管理规模化，市场国际化，产品优质化的方向发展。我们的目标是制造最高性价比的减速机，把兴达自主品牌意德EED打造成高端动力传动解决方案的全球供应商。

Hangzhou Xingda Machinery co.,ltd established on 1984, headquartered in HANGZHOU, CHINA, is a comprehensive enterprise that specializes in the research, production and sales of speed reducers. Our products E-WP, E-RV, E-VF, E-UDL series of worm gear speed reducers, E-R, E-S, E-K, E-F series of helical gear speed reducers, E-GM series of geared motores and the special customized of reducers are leading in the power gearbox manufacturing industries.

Xingda focus on the detail in the manufacturing process, passed the ISO9001:2008 certificate, SGS certificate, assures the high quality of our products. Our company has 3 Inventive patents, 11 new practical patents, and awarded the Science and technology enterprises in Zhejiang Province, the national high-tech enterprises. We have more than 20 Senior Engineers, more than 200 Technical workers. The Tertiary and higher education accounted for more than 30%.

Xingda covers an area of 50 acres, with modern workshop area of 40,000 square meters. It has a total of more than 300 sets of the world's leading CNC machining centers, grinding machine centers and other production equipment and testing equipment. The annual output is 200,000 units.

We have the distribution of regional service centers, sales and service department across the 122 countries and zone, 228 cities, services to the steel industries, metallurgical industries, petroleum machinery, food machinery, packaging machinery, ceramic machinery, textile machinery, printing machinery, woodworking machinery, glass machinery, chemical machinery, lifting equipment, shipbuilding industry, cleaning industry, high-voltage switch and fitness equipment ect.

Xingda adheres to the "Honesty, Quality, Innovation, Advancing". By superb technology, quality products, perfect service, we are developing standardized management, the international market, and the super quality products. Our goal is to create the most high Efficient &Economic speed reducers, making EED a global supplier of advancing power transmission solutions Expert.

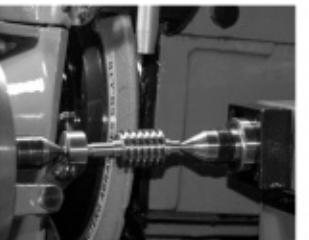


Xingda Machinery



工欲善其事，必先利其器

A workman must first sharpen his tools
if he is to do his work well.



Machining equipment

加工设备

国内一流自动化加工设备为零件加工精度的稳定性提供最稳固的基础。

The first-rate automatic equipments have provided solid foundation for machining accuracy.

CONTENTS 目录

E-V系列 P01-20

一、E-RV 系列减速机 E-RV Series Worm Gear Units

| | |
|---------------------|----|
| 产品概述 Summary | 02 |
| 结构图 Structural View | 03 |
| 型号说明 Model Mark | 04 |

二、选型指南 Type Selection Manual

| | |
|--------------------------------|----|
| 性能参数 Performance Parameter | 08 |
| 外形尺寸图表 Outline Dimension Sheet | 10 |
| 附件 Accessories | 13 |

三、E-RV/E-V-E-RV 双级减速机 Combination Worm Gear Units

| | |
|---|----|
| 产品概述 Summary | 14 |
| 外形尺寸图表 Outline Dimension Sheet | 15 |
| 安装方位图 Installation Positions Diagram | 19 |
| 组合传动速比分配表 Assignment Table Of Combination Ratio | 20 |

E-UDL系列 P21-26

四、E-UDL 无级变速器 E-UDL Stepless Speed Variator

| | |
|-------------------------------|----|
| 产品概述 Summary | 21 |
| 结构图 Structural View | 22 |
| 型号说明 Model Mark | 22 |
| 性能参数 Performance Parameter | 23 |
| 使用与保养 Operation & Maintenance | 26 |

参数 P27-54

| | |
|---|----|
| E-RV,E-RV-E-RV 性能参数 Performance Parameter | 27 |
| E-V 性能参数 Performance Parameter | 42 |
| E-V-E-RV 性能参数 Performance Parameter | 50 |
| E-UDL-E-RV 性能参数 Performance Parameter | 53 |

E-VF系列 P55-115

五、E-VF 蜗轮减速器 E-VF Worm Gear Units

| | |
|--------------------------------|----|
| 型号说明 Model Mark | 55 |
| 性能参数 Performance Parameter | 57 |
| 外形尺寸图表 Outline Dimension Sheet | 86 |

附录 P116-119

| | |
|--|-----|
| 减速器的安装 Installation | 116 |
| 润滑 Lubricants | 117 |
| 故障原因与排除 The Cause For Breakdown And Settlement | 119 |

E-SWL系列 P120-140

六、E-SWL 系列蜗轮螺杆升降机 E-SWL Series Worm Gear Screw Jack

| | |
|-------------------------------------|-----|
| 产品概述 Summary | 120 |
| 外形及安装尺寸 Outline And Installing Size | 122 |

EDSS系列 P141-154

七、EDSS 蜗轮丝杆升降机 EDSS Worm Gear Linear Actuator

EDTM系列 P155-162

八、EDTM 螺旋伞齿轮转向器 EDTM Spiral Bevel Gear Steering Device

一、E-RV 系列减速机 E-RV SERIES WORM GEAR UNITS

产品图片 Product picture



E-RV025~150



E-V030~150



E-RV-E-RV...



E-V-E-RV...



E-UDL.B3



E-UDL-E-RV...



E-RV025~150



E-V030~150

产品概述 Summary

结构特点 STRUCTURE FEATURES

- 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。

- 1、Made of high-quality aluminumalloy, light in weight and non-rusting.
- 2、Large in 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.

主要材料 MAIN MATERIALS

- 1、外壳：铝合金（机座：025-090），铸铁（机座：110-150）；
- 2、蜗杆：20CrMnTi，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。

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

表面涂装 SURFACE PAINTING

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、磷化处理后，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RAL5010A蓝色或银白色涂料。

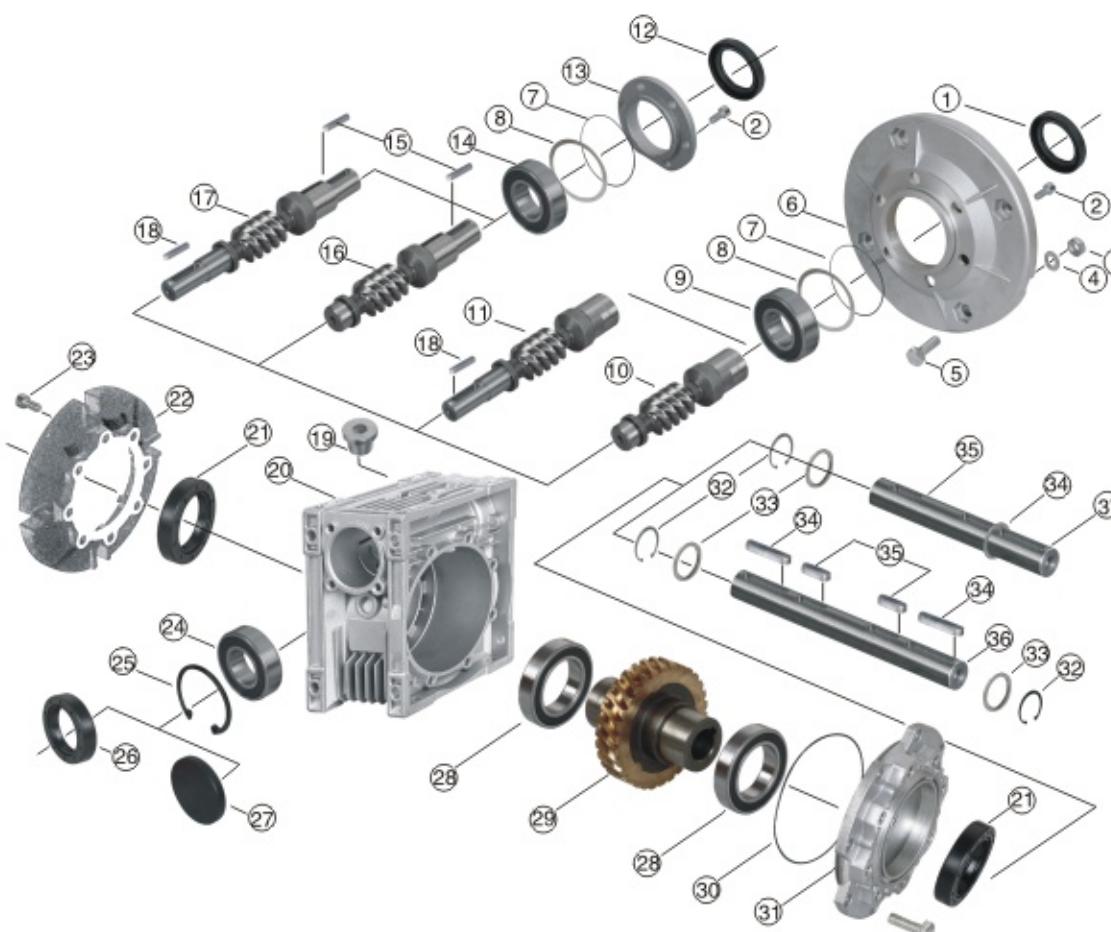
Aluminum alloy housing:

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

Cast iron housing:

First paint with red antirustpaint, then paint with RAL5010 blue or silvery white paint.

零件爆炸视图及名称 Exploded view & name of parts



| | | | |
|-------------|-----------------------------------|----------|---------------------|
| 1、油封 | Oil seal | 19、油塞 | Oil plug |
| 2、内六角螺钉 | Inner hex screw | 20、箱体 | Casing |
| 3、螺母 | Nut | 21、油封 | Oil seal |
| 4、弹性垫圈 | Spring washer | 22、输出法兰 | Output flange |
| 5、六角头螺栓 | Hex screw | 23、内六角螺钉 | Inner hex screw |
| 6、输入法兰 | Input flange | 24、轴承 | Bearing |
| 7、O形圈 | O-Ring | 25、孔用挡圈 | Hole-circlip |
| 8、调整垫片 | Adjust spacer | 26、油封 | Oil seal |
| 9、轴承 | Bearing | 27、盖子 | Cover |
| 10、孔输入蜗杆 | Hole input worm | 28、轴承 | Bearing |
| 11、孔输入轴输出蜗杆 | Hole input and shaft output worm | 29、蜗轮 | Worm wheel |
| 12、油封 | Oil seal | 30、O形圈 | O-Ring |
| 13、输入端盖 | Input cover | 31、输出端盖 | Output cover |
| 14、轴承 | Bearing | 32、轴用挡圈 | Shaft-circlip |
| 15、平键 | Key | 33、垫片 | Spacer |
| 16、轴输入蜗杆 | Shaft input worm | 34、平键 | Key |
| 17、轴输入轴输出蜗杆 | Shaft input and shaft output worm | 35、平键 | Key |
| 18、平键 | Key | 36、双向输出轴 | Double output shaft |
| | | 37、单向输出轴 | Single output shaft |

型号说明 Model Mark

E-RV 063-40-E-FA1-AS1 71B5 B3-7124或/或0.37-4/1

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

| NO | 说 明 | Comments |
|----|--|---|
| 1 | 型号代码 1).E-RV:孔输入带输入法兰 2).E-V:轴输入不带输入法兰 | Model code 1).E-RV:Hole input with flange 2).E-V:Shaft input without flange |
| 2 | 蜗轮蜗杆减速器中心距 (规格) | Central distance of worm gear units(spec) |
| 3 | 减速器速比 (I=7.5;10;15;20;25;30;40;50;60;80;100) | Speed ratio of reducer (I=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输出轴 2).E: 带蜗杆同向输出轴 | 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 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).AS (1/2) : 单向输出轴和位置 3).AB: 双向输出轴 | 1).No mark means hole output 2).AS (1/2) : Single output shaft and position 3).AB: Double output shaft |
| 7 | 输入法兰规格型式 (不带电机时) | Normalized form 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 position1 can be no mention |

蜗杆 蜗轮旋转方向
Direction of Rotation

E-RV



E-V

二、选型指南 TYPE SELECTION MANUAL

2. 1 选型方法 Model selections

2.1.1 符号及计量单位 Symbols and units of measure

● P: 功率 Power (KW)

P_i: 输入功率 Input power

P_o: 输出功率 Output power

P_{in}: 选用电机功率 Select motor power

η_d: 动态效率 Dynamic efficiency

η_d是蜗轮箱经过足够长的时间跑合后，表面温度下降并最终稳定后计算得到P₂和P₁之间的关系

The dynamic efficiency is the relationship of power delivered at output shaft P₂ to power applied at input shaft P₁. Value of η_d are calculated for gearboxes after a sufficiently long running-in period. After the running-in period the surface temperature in operation reduces and finally stabilises.

$$\eta_d = \frac{P_2}{P_i} \times 100\%$$

P_{in} ≥ P_i × f_s;

η_s: 静态效率 Static efficient

η_s是蜗轮箱启动阶段的效率，在间歇工作制的选型中，是非常重要的考虑因素。

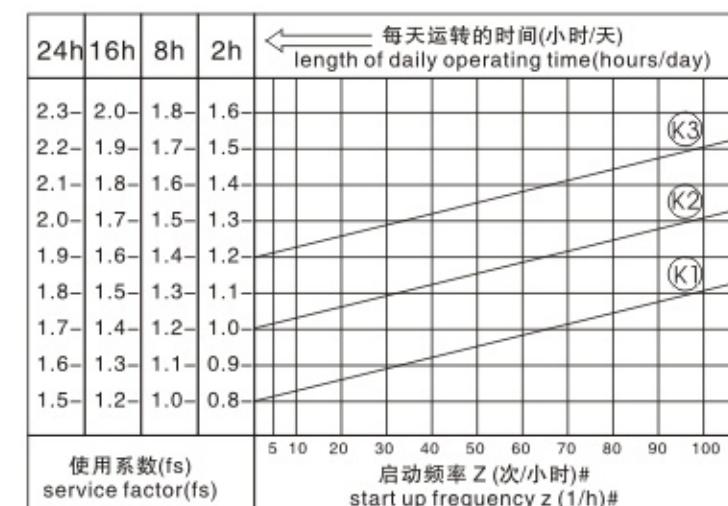
Efficiency applicable at start-up of the gearbox. It is critical when selecting worm gearbox operating under intermittent duty.

f_s: 使用系数 Service factor

使用系数用来表示减速机的负载特性，它考虑到与减速机应用场合有关的每天的运转条件，负载的变化，过载等因素。在下面的图标中，在选型合适的“每天运行时间”列后，即可由每小时的启动次数与曲线K1,K2或K3相交点获得使用系数。K 曲线是通过惯性加速K 与负载特性（大致可分为：均匀负载，中等负载和重负载）相联系的，且与被驱动装置的转动惯量和电机的转动惯量壁纸有关。

This factor is the numeric value describing reducer service duty. It takes into consideration, with unavoidable approximation, daily operating condition, load variations and overloads connected with reducer application. In the graph below, after selecting proper "daily working hours" column, the service factor is given by intersecting the number of starts per hour and one of the K1,K2 or K3 curves. K-curves are linked with the service nature(approximately: uniform, medium and heavy) through the acceleration factor of masses K, connected to the ratio between driven masses and motor inertia values.

Fs取决于负荷 K-CURVES



受环境温度影响，使用系数做以下调整：

A. 环境温度30–40°C: f_s × (1.1–1.2)

B. 环境温度40–50°C: f_s × (1.3–1.4)

C. 环境温度50–60°C: f_s × (1.5–1.6)

Service factor should be adjusted as followings:

A, ambient temperature is 30–40°C, f_s × (1.1–1.2)

B, ambient temperature is 40–50°C, f_s × (1.3–1.4)

C, ambient temperature is 50–60°C, f_s × (1.5–1.6)

● n₁: 减速机输入转速(r/min) Gear unit input speed(r/min)

n₂: 减速机输出转速(r/min) Gear unit output speed(r/min)

I: 速比 Ratio

$$I = \frac{n_1}{n_2}$$

● Fr1: 输入轴径向载荷 Input shaft radial loads

● Fr2: 输出轴径向载荷 Output shaft radial loads

● M₂: 输出扭矩(Nm) Output Torque (Nm)

M_{2n}: 选用输出扭矩 Selected output torque

$$M_2 = \frac{9550 \cdot P_2 \cdot \eta_d}{n_2}$$

M_{2n} ≥ M₂ × f_s

2.1.2 选型考虑因素：Understanding the following when select the gearbox

- 负荷条件 Load condition
- 使用转速范围或速比（与双极组合，E-UDL 组合等）Speed scope or ratio in application
- 工作运转情况及环境（温度，湿度，腐蚀）Working condition and environment
- 安装空间 Installation space

2.1.3 选型举例 Examples for model chosen

● 被驱动的设备扭矩是150 N.m, 输入转速是1400 r/min, 输出转速是 70 r/min, 中等负荷, 每天运行8小时, 每小时启动20次, 环境温度30°C。电机要求B3安装方位

(1) 确定速比 $i = n_1/n_2 = 1400/70 = 20$

(2) 确定工作系数, 中等负荷, 选用K2曲线, 取20次频率的交点, 查得8小时/天的 $f_s = 1.25$

(3) 温度36°C, 温度系数是1.1, 则 $f_s = 1.25 \times 1.1 = 1.38$

(4) 确定选用扭矩 $M_{z_n} \geq M_2 \cdot f_s = 150 \times 1.43 = 214.5 \text{ Nm}$

(5) 查性能参数表, 符合3个条件, 速比是20, M_{z_n} 等于或者大于214.5Nm, f_s 要等于或者大于1.38, 查得最接近的是 E-RV 90-20-B3-2.2-4

Required torque 150 Nm on driven machine, $n_1=1400\text{r/min}$, $n_2=70\text{r/min}$, medium load, running for 8 hours per day, start 20 times per hour, the ambient temperature is 30°C, B3 mounted.

(1) $i = n_1/n_2 = 1400/70 = 20$

(2) Get the $f_s = 1.25$ from turning time and start frequency on Curve K2,

(3) Get the $f_s = 1.25 \times 1.1 = 1.38$ from the working condition

(4) Choose the $M_{z_n} \geq M_2 \cdot f_s = 150 \times 1.43 = 214.5 \text{ Nm}$

(5) To get the $i=20$, $M_{z_n} \geq 214.5 \text{ Nm}$, $f_s \geq 1.38$ from the performance parameter, choose

E-RV 90-20-B3-2.2-4

● 被驱动的设备输入功率是1.5 KW 输入转速是900 r/min, 输出转速是 60 r/min, 重冲击负荷, 每天运行16小时, 每小时启动100次, 环境温度20 °C。

(1) 确定速比 $i = n_1/n_2 = 900/60 = 15$

(2) 确定工作系数, 重负荷, 选用K3 曲线, 找到16小时和100次的交叉点, 查得 $f_s = 1.9$

(3) 温度20 °C, 温度系数是1.0, 则修正 $f_s = 1.9 \times 1 = 1.9$

(4) 确定选用电机 $P_{z_n} \geq P_1 \cdot f_s = 1.5 \times 1.9 = 2.85 \text{ kw}$

(5) 查性能参数表, 符合3个条件, $i=15$, f_s 要等于或者大于1.9, P_{1n} 要等于或者大于2.85kw, 查得最接近的是

E-RV 110-15-132S6

The input power of the driver machine is 1.5kw, $n_1=900\text{r/min}$, $n_2=60\text{r/min}$, heavy load, running 16 hours per day, starts 100 times for hour, ambient temperature is 20 °C

(1) $i = n_1/n_2 = 900/60 = 15$

(2) Get the $f_s = 1.9$ from turning time and start frequency on Curve K3,

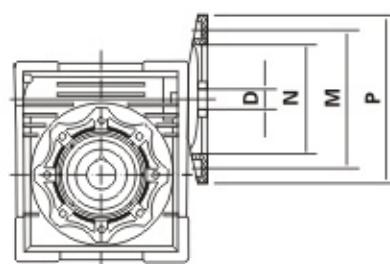
(3) Get the $f_s = 1.9 \times 1.0 = 1.9$ from the working condition

(4) Choose the $P_{z_n} \geq P_1 \cdot f_s = 1.5 \times 1.9 = 2.85 \text{ KW}$

(5) To get the $i=15$, $P_{z_n} \geq 2.85 \text{ KW}$, $f_s \geq 1.9$ from the performance parameter, choose E-RV 110-15-132S6.

啮合参数 Mesh parameter

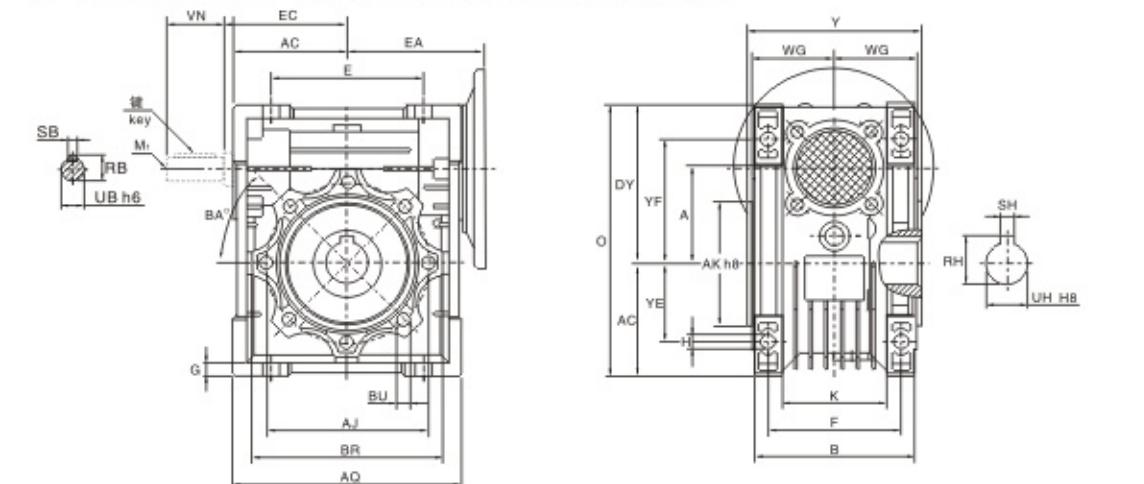
| | i | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 |
|---------|----------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| E-RV025 | Z_1 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | | |
| | M_n | 1.3 | 1.3 | 1.3 | 0.995 | 0.8 | 1.3 | 0.995 | 0.8 | 0.67 | | |
| | Y | 25°18' | 19°31' | 13°18' | 11°02' | 9°05' | 6°44' | 5°34' | 4°34' | 3°55' | | |
| | $\eta_z(1400)$ | 0.85 | 0.83 | 0.79 | 0.75 | 0.71 | 0.67 | 0.62 | 0.58 | 0.55 | | |
| | η_s | 0.71 | 0.68 | 0.61 | 0.56 | 0.5 | 0.46 | 0.41 | 0.36 | 0.34 | | |
| E-RV030 | Z_1 | 4 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | | |
| | M_n | 18°55' | 14°25' | 9°44' | 7°50' | 5°33' | 4°54' | 3°55' | 3°17' | 2°43' | 2°07' | |
| | Y | 1.44 | 1.44 | 1.44 | 1.1 | 1.7 | 1.44 | 1.1 | 0.89 | 0.74 | 0.56 | |
| | $\eta_z(1400)$ | 0.85 | 0.82 | 0.77 | 0.73 | 0.68 | 0.65 | 0.59 | 0.55 | 0.51 | 0.44 | |
| | η_s | 0.67 | 0.63 | 0.55 | 0.5 | 0.43 | 0.39 | 0.35 | 0.31 | 0.27 | 0.23 | |
| E-RV040 | Z_1 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | | |
| | M_n | 2.05 | 2.05 | 2.05 | 1.56 | 1.27 | 2.05 | 1.56 | 1.27 | 1.06 | 0.8 | 0.65 |
| | Y | 23°54' | 18°23' | 12°30' | 10°03' | 8°45' | 6°19' | 5°04' | 4°24' | 3°42' | 2°52' | 2°29' |
| | $\eta_z(1400)$ | 0.87 | 0.85 | 0.82 | 0.78 | 0.75 | 0.7 | 0.65 | 0.62 | 0.58 | 0.52 | 0.47 |
| | η_s | 0.71 | 0.67 | 0.6 | 0.55 | 0.51 | 0.45 | 0.4 | 0.36 | 0.32 | 0.28 | 0.24 |
| E-RV050 | Z_1 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | | |
| | M_n | 2.56 | 2.56 | 2.56 | 1.95 | 1.58 | 2.56 | 1.95 | 1.58 | 1.32 | 1 | 0.8 |
| | Y | 23°49' | 18°19' | 12°27' | 10°03' | 8°33' | 6°18' | 5°04' | 4°18' | 3°38' | 2°52' | 2°17' |
| | $\eta_z(1400)$ | 0.88 | 0.86 | 0.82 | 0.79 | 0.76 | 0.72 | 0.67 | 0.63 | 0.59 | 0.53 | 0.49 |
| | η_s | 0.7 | 0.66 | 0.59 | 0.55 | 0.51 | 0.44 | 0.39 | 0.35 | 0.32 | 0.27 | 0.23 |
| E-RV063 | Z_1 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | | |
| | M_n | 3.25 | 3.25 | 3.25 | 2.48 | 2 | 3.25 | 2.48 | 2 | 1.68 | 1.27 | 1.02 |
| | Y | 24°31' | 18°53' | 12°51' | 10°29' | 8°45' | 6°30' | 5°17' | 4°24' | 3°49' | 2°59' | 2°26' |
| | $\eta_z(1400)$ | 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 |
| E-RV075 | Z_1 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | | |
| | M_n | 3.95 | 3.95 | 3.95 | 3 | 2.42 | 3.95 | 3 | 2.42 | 2.03 | 1.54 | 1.24 |
| | Y | 26°38' | 20°37' | 14°05' | 11°19' | 9°29' | 7°09' | 5°43' | 4°46' | 4°01' | 3°17' | 2°44' |
| | $\eta_z(1400)$ | 0.89 | 0.88 | 0.85 | 0.82 | 0.8 | 0.76 | 0.72 | 0.69 | 0.65 | 0.6 | 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 |
| E-RV090 | Z_1 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | | |
| | M_n | 4.84 | 4.84 | 4.84 | 3.69 | 2.98 | 4.84 | 3.69 | 2.98 | 2.5 | 1.89 | 1.52 |
| | Y | 29°05' | 22°39' | 15°33' | 12°50' | 10°53' | 7°55' | 6°30' | 5°29' | 4°46' | 3°45' | 3°06' |
| | $\eta_z(1400)$ | 0.9 | 0.89 | 0.86 | 0.84 | 0.82 | 0.78 | 0.75 | 0.72 | 0.68 | 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 |
| E-RV110 | Z_1 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | | |
| | M_n | 5,875 | 5,875 | 5,875 | 4.62 | 3.73 | 5,875 | 4.62 | 3.73 | 3.13 | 2.37 | 1.91 |
| | Y | 28°15' | 21°57' | 15°02' | 14°42' | 12°33' | 7°39' | 7°29' | 6°21' | 5°33' | 4°27' | 3°46' |
| | $\eta_z(1400)$ | 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 |
| E-RV130 | Z_1 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | </ | |



*如果要特殊平键,请与技术部联系。
*If you want special key, please call our Technical Service

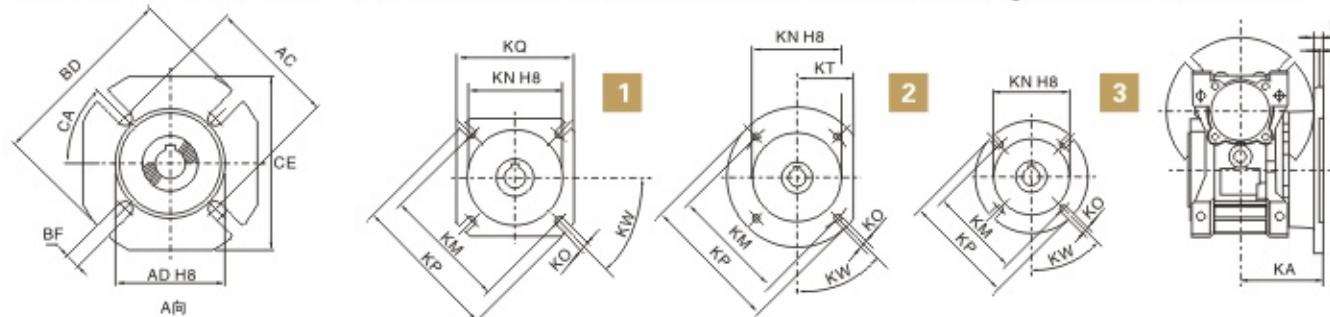
| | 电机法兰 Motor flange | | | | 输入轴直径 D The hole diameter of input shaft | | | | | | | | | | |
|---------|-------------------|-----|-----|-----|--|-----|-----|-----|-----|-----|----|----|----|----|-----|
| | PAM IEC | P | M | N | 传动比 i Transmission ratio | | | | | | | | | | |
| | | | | | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 |
| E-RV025 | 56B14 | 80 | 65 | 50 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| E-RV030 | 63B5 | 140 | 115 | 95 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | | | |
| | 63B14 | 90 | 75 | 60 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | 56B5 | 120 | 100 | 80 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | 56B14 | 80 | 65 | 50 | | | | | | | | | | | |
| E-RV040 | 71B5 | 160 | 130 | 110 | 14 | 14 | 14 | 14 | 14 | 14 | | | | | |
| | 71B14 | 105 | 85 | 70 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | | |
| | 63B5 | 140 | 115 | 95 | | | | | | | | | | | |
| | 63B14 | 90 | 75 | 60 | | | | | | | | | | | |
| E-RV050 | 56B5 | 120 | 100 | 80 | | | | | | | | | | | |
| | 80B5 | 200 | 165 | 130 | 19 | 19 | 19 | 19 | 19 | | | | | | |
| | 80B14 | 120 | 100 | 80 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | | | |
| | 71B5 | 160 | 130 | 110 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | | | |
| E-RV063 | 71B14 | 105 | 85 | 70 | | | | | | | | | | | |
| | 63B5 | 140 | 115 | 95 | | | | | | | | | | | |
| | 90B5 | 200 | 165 | 130 | 24 | 24 | 24 | 24 | 24 | 24 | | | | | |
| | 90B14 | 140 | 115 | 95 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | | | |
| E-RV075 | 80B5 | 200 | 165 | 130 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | | | |
| | 80B14 | 120 | 100 | 80 | | | | | | | | | | | |
| | 71B5 | 160 | 130 | 110 | | | | | | | | | | | |
| | 71B14 | 105 | 85 | 70 | | | | | | | | | | | |
| E-RV090 | 100/112B5 | 250 | 215 | 180 | 28 | 28 | 28 | 28 | 28 | 28 | | | | | |
| | 110/112B14 | 160 | 130 | 110 | 24 | 24 | 24 | 24 | 24 | 24 | | | | | |
| | 90B5 | 200 | 165 | 130 | | | | | | | | | | | |
| | 90B14 | 140 | 115 | 95 | | | | | | | | | | | |
| E-RV110 | 80B5 | 200 | 165 | 130 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | | | |
| | 80B14 | 120 | 100 | 80 | | | | | | | | | | | |
| | 71B5 | 160 | 130 | 110 | | | | | | | | | | | |
| | 71B14 | 105 | 85 | 70 | | | | | | | | | | | |
| E-RV130 | 100/112B5 | 250 | 215 | 180 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | | | |
| | 90B5 | 200 | 165 | 130 | | | | | | | | | | | |
| | 132B5 | 300 | 265 | 230 | 38* | 38* | 38* | 38* | 38* | 38* | | | | | |
| | 110/112B5 | 250 | 215 | 180 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | | | |
| E-RV150 | 90B5 | 200 | 165 | 130 | | | | | | | | | | | |
| | 132B5 | 300 | 265 | 230 | 38* | 38* | 38* | 38* | 38* | 38* | | | | | |
| | 100/112B5 | 250 | 215 | 180 | | | | | | | | | | | |
| | 90B5 | 200 | 165 | 130 | | | | | | | | | | | |
| E-RV150 | 160B5 | 350 | 320 | 250 | 42 | 42 | 42 | 42 | | | | | | | |
| | 132B5 | 300 | 265 | 230 | | | | | | | | | | | |
| | 100/112B5 | 250 | 215 | 180 | | | | | | | | | | | |

E-RV安装尺寸(E-RV MOUNTING DIMENSIONS)

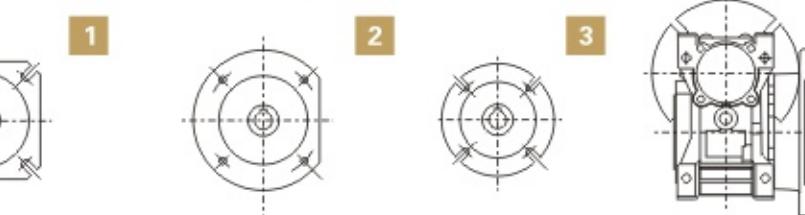


| | | | | | | | | | |
|----|------|------------|------------|------------|------------|------------|-------------|-------------|-------------|
| 25 | 30 | 40 | 50 | 63 | 75 | 90 | 110 | 130 | 150 |
| A | 25 | 30 | 40 | 50 | 63 | 75 | 90 | 110 | 130 |
| AC | 35 | 40 | 50 | 60 | 72 | 86 | 103 | 127.5 | 147.5 |
| AJ | 55 | 65 | 75 | 85 | 95 | 115 | 130 | 165 | 215 |
| AK | 45 | 55 | 60 | 70 | 80 | 95 | 110 | 130 | 180 |
| AQ | 70 | 80 | 100 | 120 | 144 | 172 | 206 | 252 | 340 |
| B | 42 | 56 | 71 | 85 | 103 | 112 | 130 | 144 | 185 |
| BA | 见上图 | 0° | 45° | 45° | 45° | 45° | 45° | 45° | 45° |
| BR | 65 | 75 | 87 | 100 | 110 | 140 | 160 | 200 | 250 |
| BU | 见上图 | M6x11(n.4) | M6x10(n.4) | M8x10(n.4) | M8x14(n.8) | M8x14(n.8) | M10x18(n.8) | M10x18(n.8) | M12x21(n.8) |
| DY | 48 | 57 | 71.5 | 84 | 102 | 119 | 135 | 167.5 | 187.5 |
| E | 45 | 54 | 70 | 80 | 100 | 120 | 140 | 170 | 240 |
| EA | 45 | 55 | 71 | 80 | 95 | 112.5 | 130 | 160 | 180 |
| EC | - | 45 | 53 | 64 | 75 | 90 | 108 | 135 | 155 |
| F | 34 | 44 | 60 | 70 | 85 | 90 | 100 | 115 | 120 |
| G | 5 | 5.5 | 6.5 | 7 | 8 | 10 | 11 | 15 | 18 |
| H | 6 | 6.5 | 7 | 8.5 | 8.5 | 11 | 13 | 14 | 18 |
| K | 22 | 32 | 43 | 49 | 67 | 72 | 74 | - | - |
| M1 | - | - | - | M6 | M6 | M8 | M8 | M10 | M12 |
| O | 83 | 97 | 121.5 | 144 | 174 | 205 | 238 | 295 | 335 |
| RB | - | 10.2 | 12.5 | 16 | 21.5 | 27 | 27 | 31 | 38 |
| RH | 12.8 | 16.3 | 20.8 | 28.3 | 28.3 | 31.3 | 38.3 | 45.3 | 53.8 |
| SB | - | 3 | 4 | 5 | 6 | 8 | 8 | 8 | 10 |
| SH | 4 | 5 | 6 | 8 | 8 | 10 | 12 | 14 | 14 |
| UB | - | 9 | 11 | 14 | 19 | 24 | 24 | 28 | 35 |
| UH | 11 | 14 | 1 | | | | | | |

E-RV/E-RV-P030-150F – Dimensioni / Dimensions / Encombrements / Abmessungen / Dimensiones / 尺寸

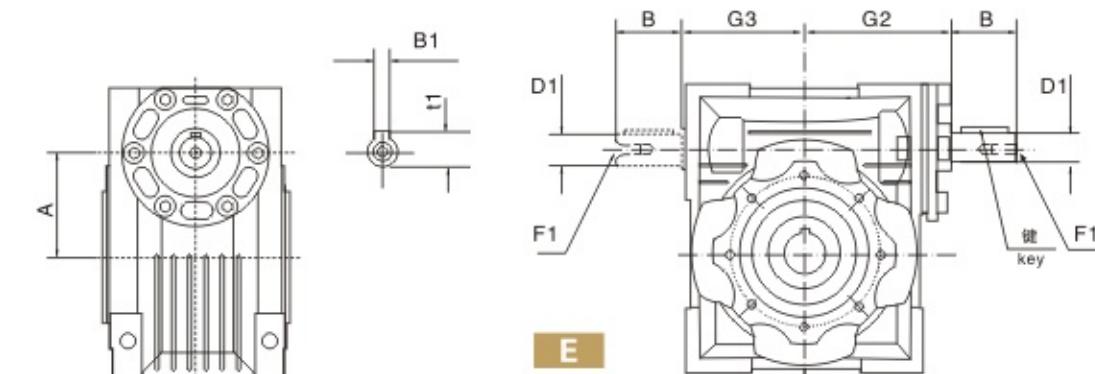


| | 030 | 040 | 050 | 063 | 075 | 090 | 110 | 130 | 150 |
|----|-----------------|-----------|-----------|----------|----------|----------|----------|----------|-----|
| FA | KA 54.5 | 67 | 90 | 82 | 111 | 111 | 131 | 140 | 155 |
| | KB 6 | 7 | 9 | 10 | 13 | 13 | 15 | 15 | 15 |
| | KC 4 | 4 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |
| | KN 50 | 60 | 70 | 115 | 130 | 152 | 170 | 180 | 180 |
| | KM 68 | 80min | 90min | 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) | 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° | 22.5° | 22.5° | |
| FB | KA – | 97 | 120 | 112 | 90 | 122 | 180 | – | – |
| | KB – | 7 | 9 | 10 | 13 | 18 | 15 | – | – |
| | KC – | 4 | 5 | 6 | 6 | 6 | – | – | – |
| | KN – | 60 | 70 | 115 | 110 | 180 | 170 | – | – |
| | KM – | 80min | 90min | 150 | 130 | 215 | 230 | – | – |
| | KO – | 9(n° 4) | 11(n° 4) | 11(n° 4) | 14(n° 4) | 14(n° 8) | – | – | – |
| | KP – | 110 | 125 | 180 | 160 | 250 | 280 | – | – |
| | KQ – | 95 | 110 | 142 | – | – | 260 | – | – |
| | KT – | – | – | – | – | 105 | – | – | – |
| FC | KW – | 45° | 45° | 45° | 45° | 45° | 45° | – | – |
| | 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 | – | – | – |
| | KT – | 56 | 66 | 80 | – | – | – | – | – |
| FD | KW – | 45° | 45° | 45° | – | 45° | – | – | – |
| | 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 – | – | – | – | – | 200 | – | – | – |
| FE | KT – | 50 | 60 | – | – | – | – | – | – |
| | KW – | 45° | 45° | 45° | – | 45° | – | – | – |
| | KA – | – | – | – | – | – | – | – | – |
| | KB – | – | – | – | – | – | – | – | – |
| | KC – | – | – | – | – | – | – | – | – |
| | KN – | – | – | 110 | – | – | – | – | – |
| FE | KM – | – | – | 130 | – | – | – | – | – |
| | KO – | – | – | 11(n° 4) | – | – | – | – | – |
| | KP – | – | – | 160 | – | – | – | – | – |
| | KW – | – | – | 45° | – | – | – | – | – |



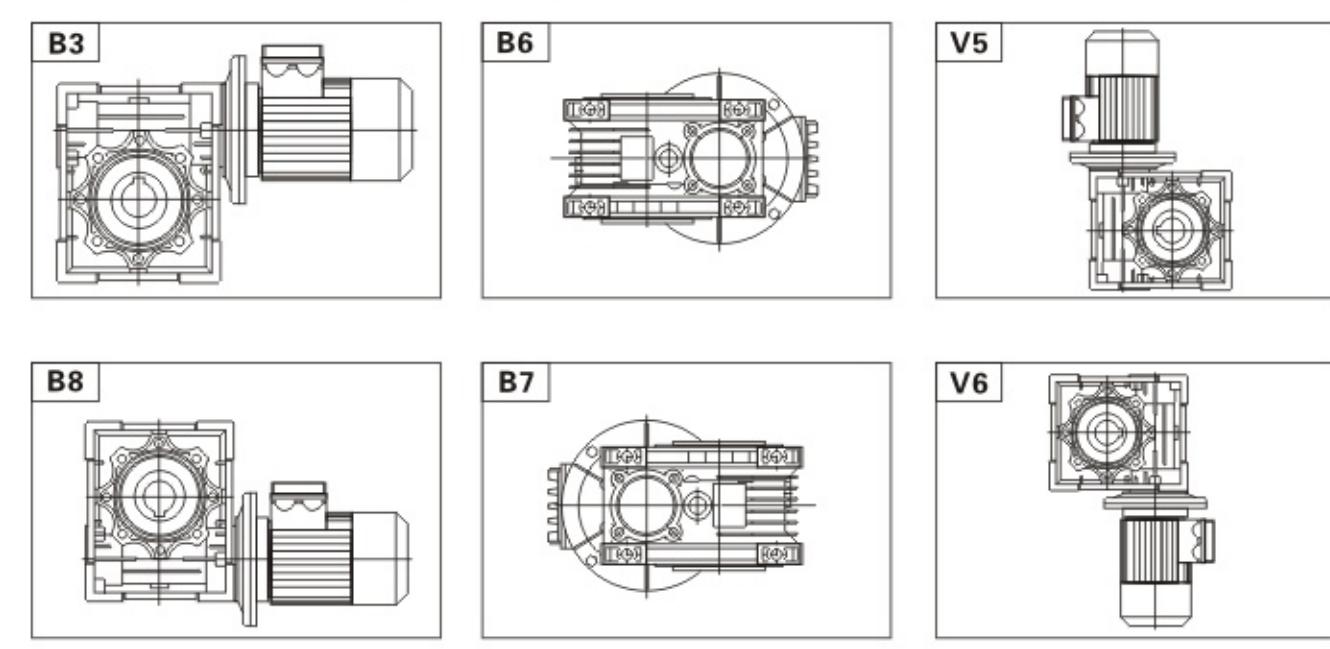
| | 030 | 040 | 050 | 063 | 075 | 090 | 110 | 130 | 150 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| FA | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| FB | – | 1 | 1 | 1 | 3 | 2 | 1 | – | – |
| FC | – | 2 | 2 | 2 | – | 3 | – | – | – |
| FD | – | 2 | 2 | 2 | – | 1 | – | – | – |
| FE | – | – | – | 3 | – | – | – | – | – |

E-V安装尺寸(E-V Mounting dimensions)



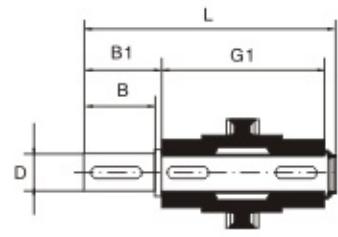
| E-V | 030 | 040 | 050 | 063 | 075 | 090 | 110 | 130 | 150 |
|-------|------|------|-----|------|-----|-----|-----|-----|------|
| B | 20 | 23 | 30 | 40 | 50 | 60 | 80 | 80 | 80 |
| D1j6 | 9 | 11 | 14 | 19 | 24 | 24 | 28 | 30 | 35 |
| G2 | 50 | 61 | 74 | 90 | 105 | 125 | 142 | 162 | 195 |
| G3 | 45 | 53 | 64 | 75 | 90 | 108 | 135 | 155 | 175 |
| A | 30 | 40 | 50 | 63 | 75 | 90 | 110 | 130 | 150 |
| B1 | 3 | 4 | 5 | 6 | 8 | 8 | 8 | 8 | 10 |
| F1 | – | – | M6 | M6 | M8 | M8 | M10 | M10 | M12 |
| TI | 10.2 | 12.5 | 16 | 21.5 | 27 | 27 | 31 | 33 | 38 |
| 输入轴平键 | | | | | | | | | |
| 规格 | 3x3 | 4x4 | 5x5 | 6x6 | 8x7 | 8x7 | 8x7 | 8x7 | 10x8 |
| 长度 | 15 | 20 | 25 | 35 | 45 | 45 | 55 | 70 | 70 |

单级安装型式 single Step Mounting Positions

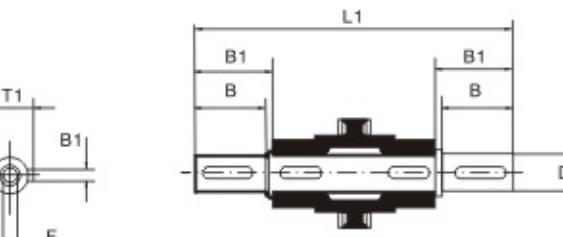


附件 ACCESSORIES

输出轴 OUTPUT SHAFT



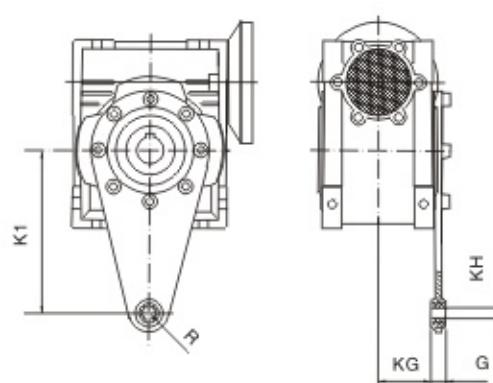
单向输出轴 Single Output Shaft



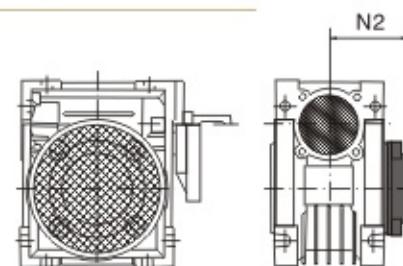
双向输出轴 Double Output Shaft

| | Dh6 | B | B1 | G1 | L | L1 | F | B1 | T1 |
|---------|------|-----|------|-----|-------|-----|-----|----|-------|
| E-RV025 | 11g6 | 23 | 25.5 | 50 | 81 | 101 | - | 4 | 12.5 |
| | 9* | 25* | 30 | 50 | 85.5* | 101 | - | 3* | 10.2* |
| E-RV030 | 14 | 30 | 32.5 | 63 | 102 | 128 | M6 | 5 | 16 |
| E-RV040 | 18 | 40 | 43 | 78 | 128 | 164 | M6 | 6 | 20.5 |
| E-RV050 | 25 | 50 | 53.5 | 92 | 153 | 199 | M10 | 8 | 28 |
| E-RV063 | 25 | 50 | 53.5 | 112 | 173 | 219 | M10 | 8 | 28 |
| E-RV075 | 28 | 60 | 63.5 | 120 | 192 | 247 | M10 | 8 | 31 |
| E-RV090 | 35 | 80 | 84.5 | 140 | 234 | 309 | M12 | 10 | 38 |
| E-RV110 | 42 | 80 | 84.5 | 155 | 249 | 324 | M16 | 12 | 45 |
| E-RV130 | 45 | 80 | 85 | 170 | 265 | 340 | M16 | 14 | 48.5 |
| E-RV150 | 50 | 82 | 87 | 200 | 297 | 374 | M16 | 14 | 53.5 |

扭力臂 TORQUE ARM



防尘盖 COVER



| | K1 | G | KG | KH | R |
|---------|-----|----|------|----|----|
| E-RV025 | 70 | 14 | 17.5 | 8 | 15 |
| E-RV030 | 85 | 14 | 24 | 8 | 15 |
| E-RV040 | 100 | 14 | 31.5 | 10 | 18 |
| E-RV050 | 100 | 14 | 38.5 | 10 | 18 |
| E-RV063 | 150 | 14 | 49 | 10 | 18 |
| E-RV075 | 200 | 25 | 47.5 | 20 | 30 |
| E-RV090 | 200 | 25 | 57.5 | 20 | 30 |
| E-RV110 | 250 | 30 | 62 | 25 | 35 |
| E-RV130 | 250 | 30 | 69 | 25 | 35 |
| E-RV150 | 250 | 30 | 84 | 25 | 35 |

| | N2 | | N2 |
|---------|----|---------|-----|
| E-RV030 | 42 | E-RV090 | 86 |
| E-RV040 | 50 | E-RV110 | 94 |
| E-RV050 | 58 | E-RV130 | 102 |
| E-RV063 | 69 | E-RV150 | 117 |
| E-RV075 | 74 | | |

三、E-RV/E-V—E-RV 双级减速机 COMBINATION WORM GEAR UNITS

产品概述 Summary

介绍:

由单机蜗轮减速机组合而成，具有单机E-RV的一切优点，和获得大的传动比。

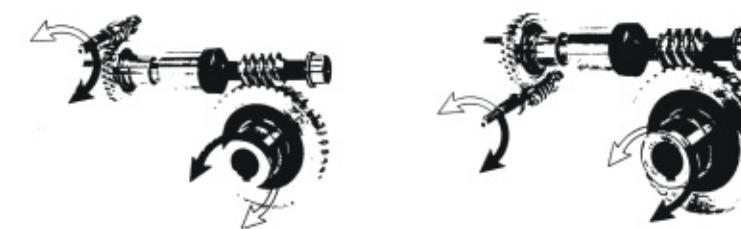
It is combined by two single step reducers and has all the virtues of them, with larger ratio.



型号标记 Model & mark

| | | | | | | |
|---|-------------|---|----|----|------|-------|
| E-RV | 050/110-900 | E | F1 | SZ | 71B5 | B3.56 |
| 安装方位代号 Installation position code | | | | | | |
| 输入法兰规格型号 Normalized form of input flange (without motor) | | | | | | |
| "SZ"带双向输出轴,标注"DZ"为单向输出轴,不标注时为孔输出 | | | | | | |
| SZ: Double output shaft; DZ: Single output shaft; No mark means hole output | | | | | | |
| 带输出法兰,不标注时为不带输出法兰 | | | | | | |
| Flange output, no mark means without output flange | | | | | | |
| 带子蜗杆同向输出轴,不标注时不带蜗杆同向输出轴 | | | | | | |
| Double extension worm shaft, no mark means single extension worm shaft | | | | | | |
| 蜗轮减速器速比 Speed ratio of worm-gear speed reducer | | | | | | |
| 蜗轮减速器中心距 Center distance of two worm gear units | | | | | | |
| 蜗轮减速器代号 Code of worm-gear speed reducer | | | | | | |
| E-RV 为带输入法兰孔输入,E-V为不带输入法兰轴输入 | | | | | | |
| E-RV: Hole input with flange, E-V: Shaft input without flange | | | | | | |

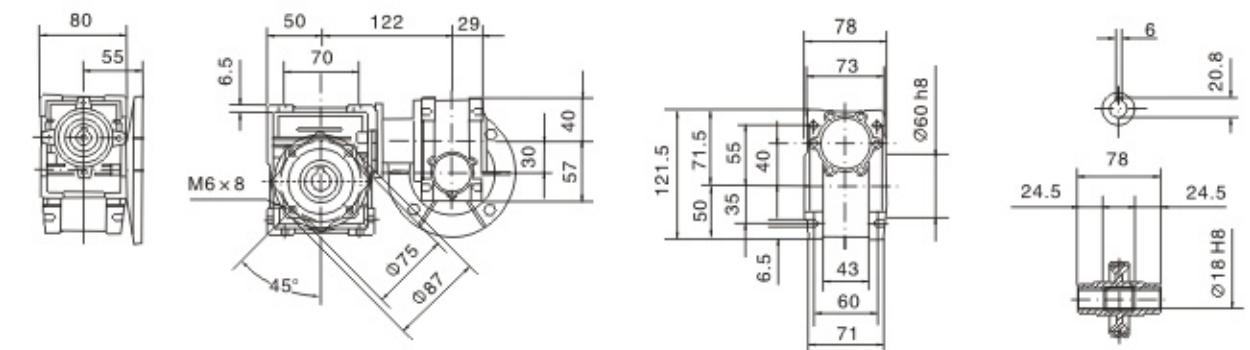
蜗杆 蜗轮旋转方向 Direction of Rotation



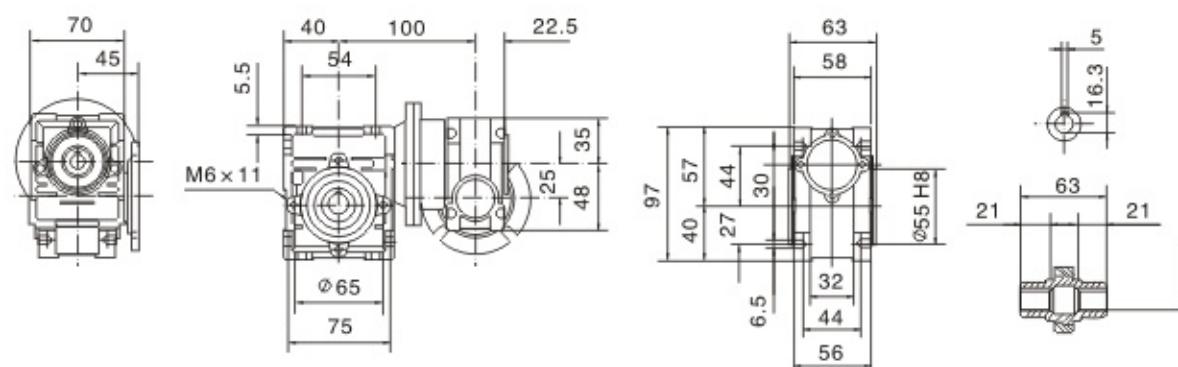
外形尺寸图表 Outline Dimension Sheet

- ◆ 有关输出法兰尺寸,请查阅11页
- ◆ 有关输出空心轴尺寸,请查阅10页
- ◆ 有关单、双向输出轴尺寸, 请查阅13页
- ◇ For the dimensions of the output flanges , please refer to page11
- ◇ For the dimensions of the hollow shafts , please refer to page10
- ◇ For the dimensions of the double extention warm shafts pleases refer to page13

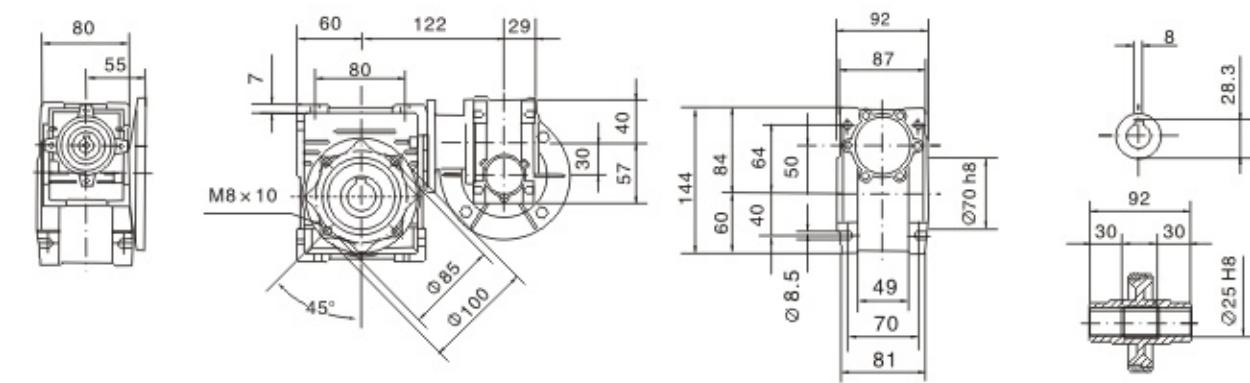
E-RV030/040



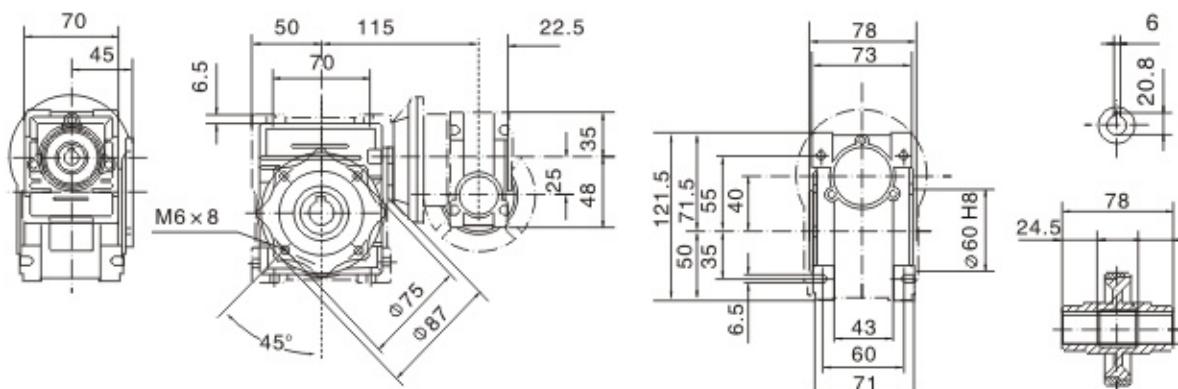
E-RV025/030



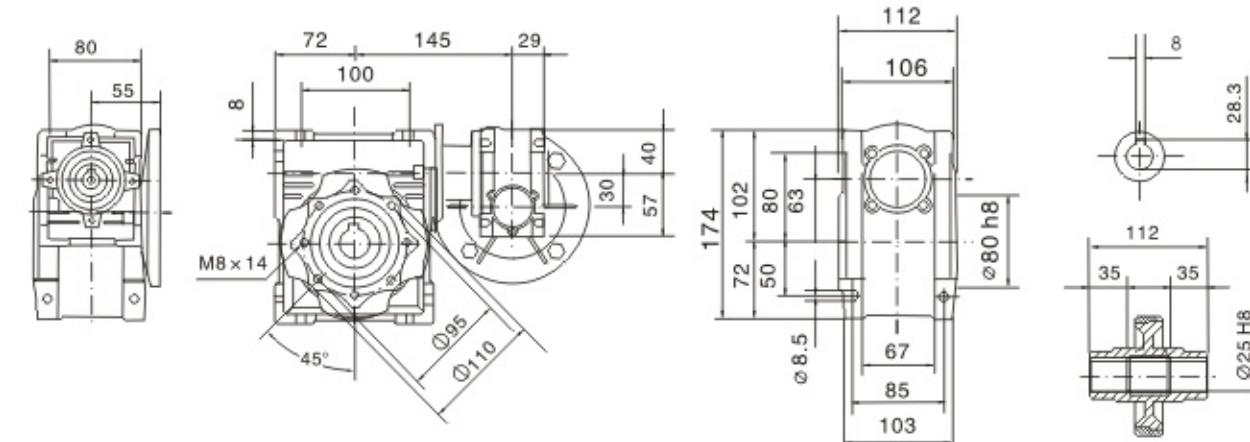
E-RV030/050



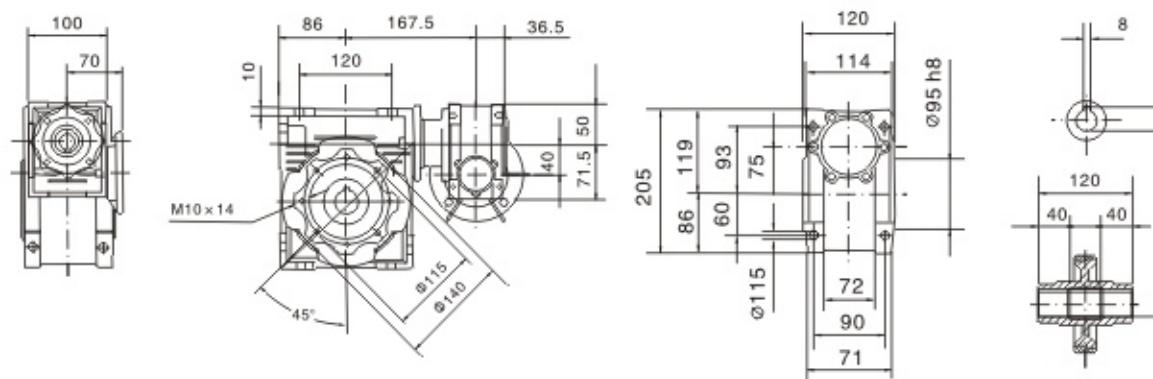
E-RV025/040



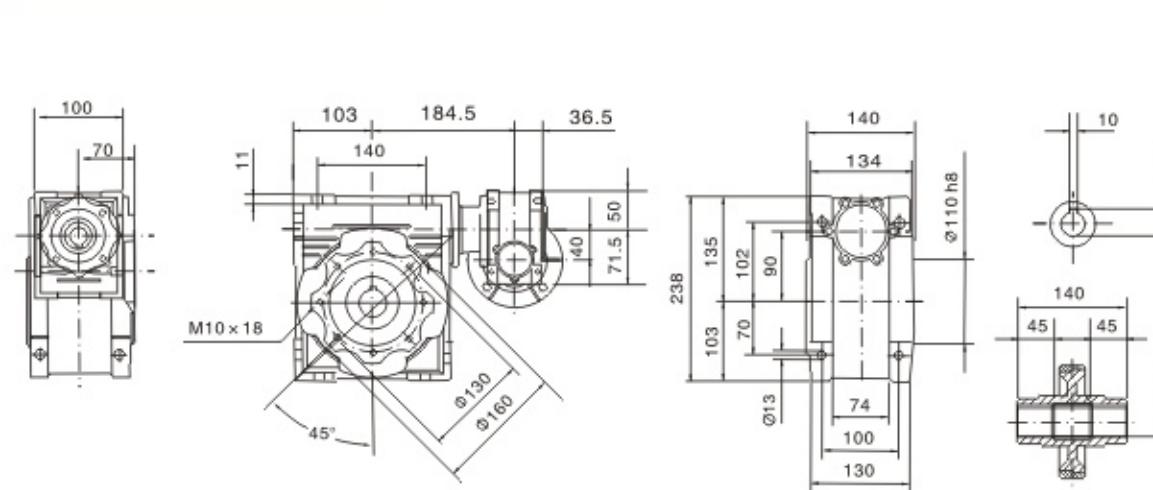
E-RV030/063



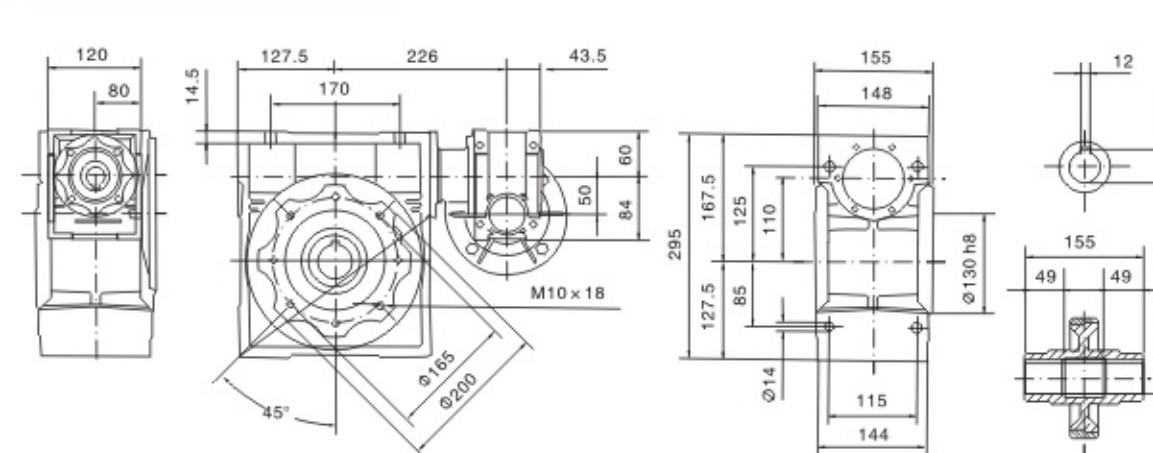
E-RV040/075



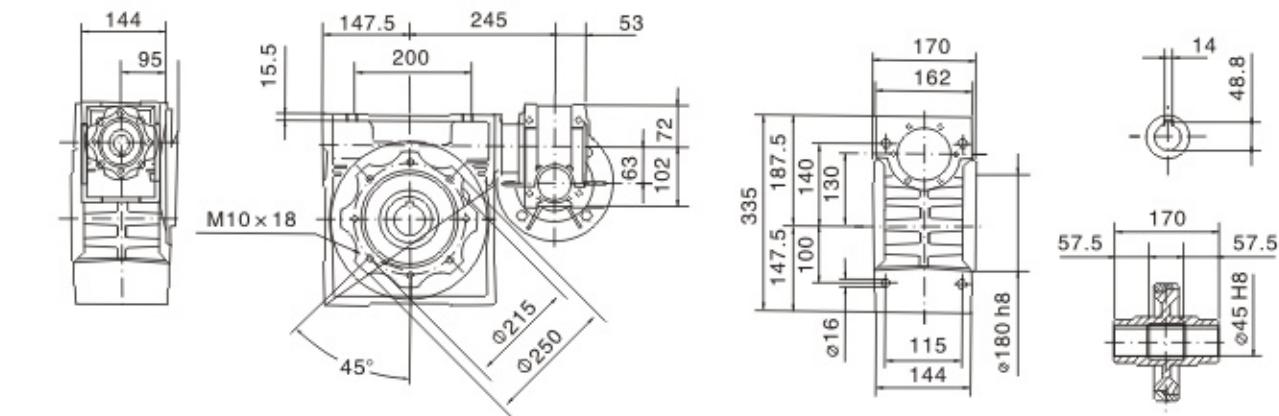
E-RV040/090



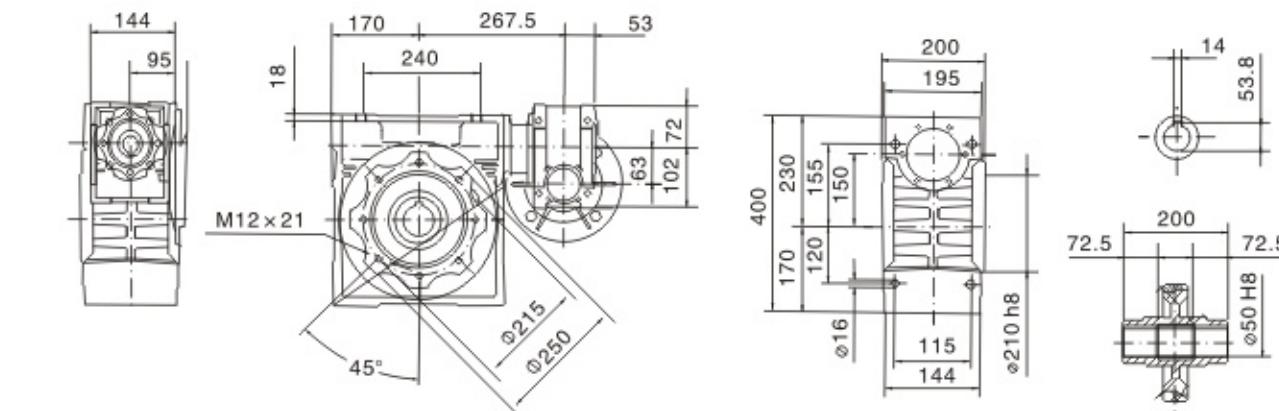
E-RV050/110



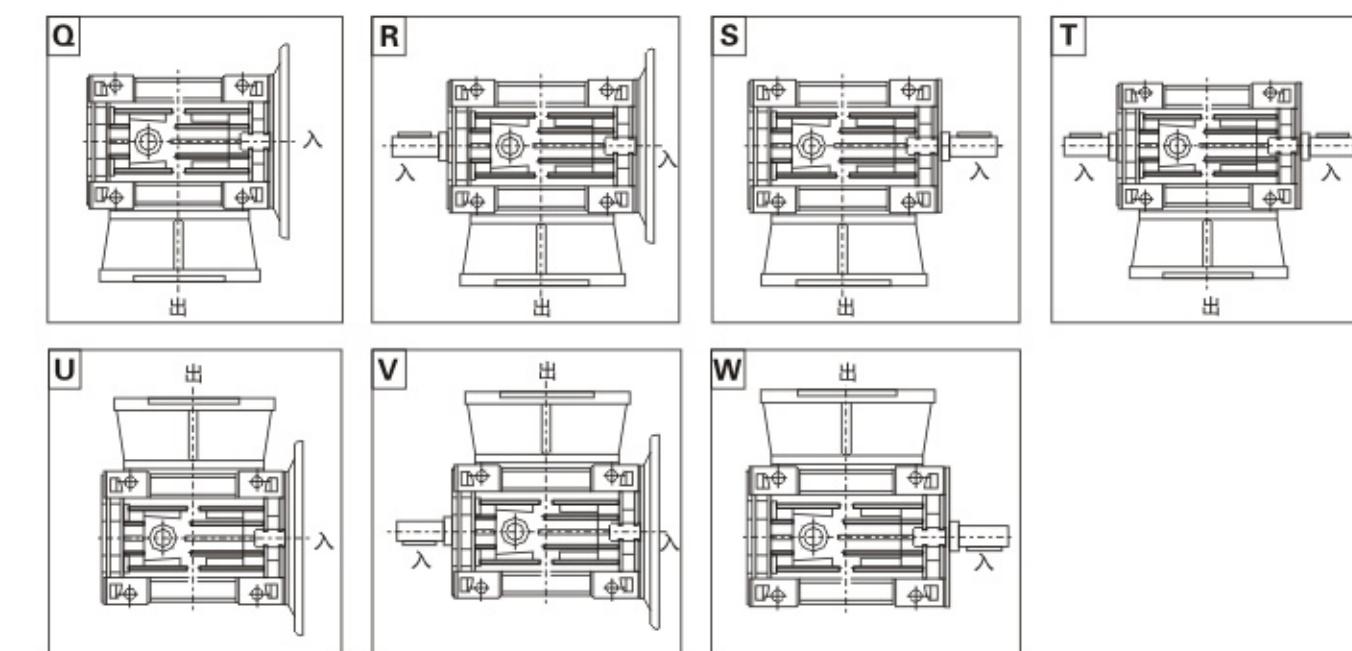
E-RV063/130

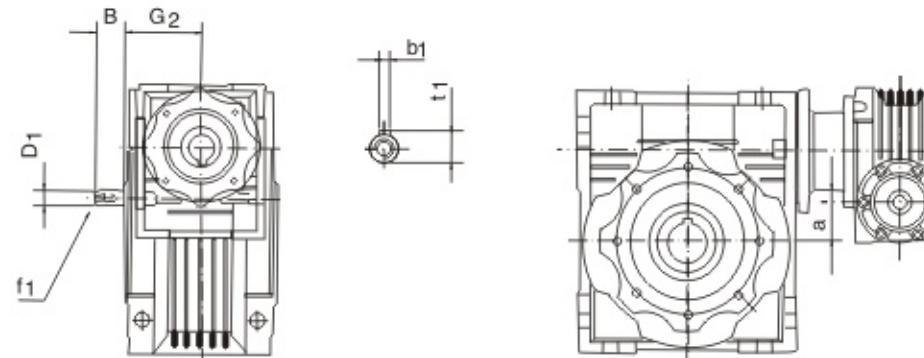


E-RV063/150

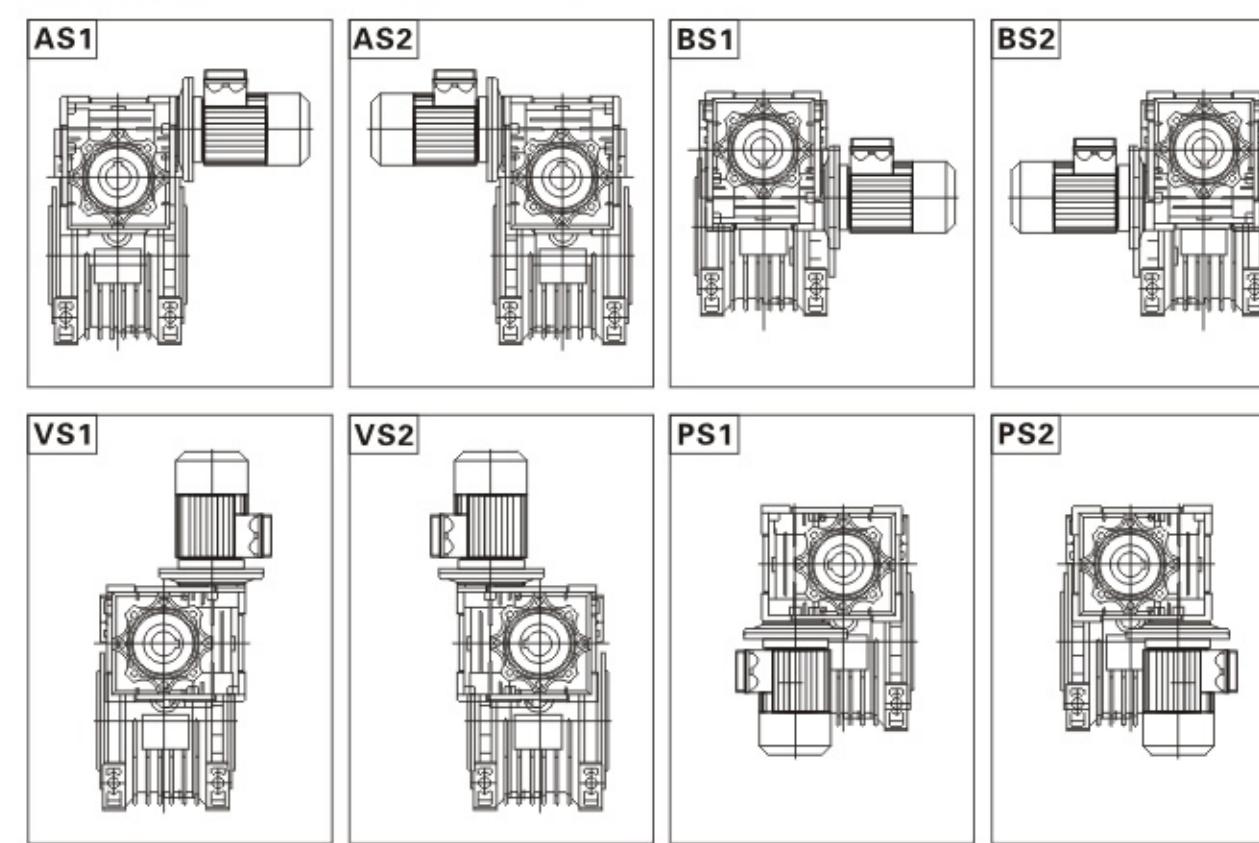


输入轴和输出法兰指向图 Directions of input shaft & output flange



安装方位图 Installation Positions Diagram**E-V-E-RV 双蜗轮减速器 COMBINATION WORM GEAR UNITS OF E-V-E-RV**

| E-V-E-RV | 030/040 | 030/050 | 030/063 | 040/073 | 040/093 | 050/110 | 063/130 |
|----------|---------|---------|---------|---------|---------|---------|---------|
| B | 20 | 20 | 20 | 23 | 23 | 30 | 40 |
| D1j6 | 9 | 9 | 9 | 11 | 11 | 14 | 19 |
| G2 | 51 | 51 | 51 | 60 | 60 | 74 | 90 |
| A | 10 | 20 | 33 | 35 | 50 | 60 | 67 |
| B1 | 3 | 3 | 3 | 4 | 4 | 5 | 6 |
| F1 | - | - | - | - | - | M6 | M6 |
| T1 | 10.2 | 10.2 | 10.2 | 12.5 | 12.5 | 16 | 21.5 |

双级安装型式 Double Step Mounting Positions

| i | n2 | n1=1400r/min | | | E-RV025/030 | | | E-RV025/040 | | | E-RV030/040 | | | E-RV030/050 | | | E-RV030/063 | | |
|------|------|--------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|--|--|
| | | P1 (kw) | i025 | i030 | P1 (kw) | i025 | i040 | P1 (kw) | i030 | i040 | P1 (kw) | i030 | i050 | P1 (kw) | i030 | i060 | | | |
| 100 | 14 | 0.09 | 10 | 10 | — | — | — | — | — | — | — | — | — | — | — | — | | | |
| 150 | 9.3 | 0.06 | 10 | 15 | — | — | — | — | — | — | — | — | — | — | — | — | | | |
| 200 | 7 | 0.06 | 10 | 20 | — | — | — | — | — | — | — | — | — | — | — | — | | | |
| 250 | 5.6 | 0.06 | 10 | 25 | — | — | — | — | — | — | — | — | — | — | — | — | | | |
| 300 | 4.7 | 0.06 | 10 | 30 | 0.06 | 10 | 30 | 0.09 | 10 | 30 | 0.18 | 10 | 30 | 0.22 | 10 | 30 | | | |
| 400 | 3.5 | 0.06 | 20 | 20 | 0.06 | 10 | 40 | 0.06 | 10 | 40 | 0.12 | 10 | 40 | 0.18 | 10 | 40 | | | |
| 500 | 2.8 | 0.06 | 20 | 25 | 0.06 | 20 | 25 | 0.06 | 20 | 25 | 0.09 | 10 | 50 | 0.18 | 10 | 50 | | | |
| 600 | 2.3 | 0.06 | 20 | 30 | 0.06 | 20 | 30 | 0.06 | 20 | 30 | 0.09 | 20 | 30 | 0.12 | 20 | 30 | | | |
| 750 | 1.9 | 0.06 | 30 | 25 | 0.06 | 25 | 30 | 0.06 | 25 | 30 | 0.09 | 25 | 30 | 0.12 | 25 | 30 | | | |
| 900 | 1.6 | 0.06 | 30 | 30 | 0.06 | 30 | 30 | 0.06 | 30 | 30 | 0.06 | 30 | 30 | 0.09 | 30 | 30 | | | |
| 1200 | 1.2 | 0.06 | 40 | 30 | 0.06 | 40 | 30 | 0.06 | 40 | 30 | 0.06 | 40 | 30 | 0.09 | 40 | 30 | | | |
| 1500 | 0.93 | 0.06 | 50 | 30 | 0.06 | 50 | 30 | 0.06 | 50 | 30 | 0.06 | 50 | 30 | 0.06 | 50 | 30 | | | |
| 1800 | 0.78 | 0.06 | 60 | 30 | 0.06 | 60 | 30 | 0.06 | 60 | 30 | 0.06 | 60 | 30 | 0.06 | 60 | 30 | | | |
| 2400 | 0.58 | 0.06 | 60 | 40 | 0.06 | 60 | 40 | 0.06 | 60 | 40 | 0.06 | 60 | 40 | 0.06 | 60 | 40 | | | |
| 3000 | 0.47 | 0.06 | 60 | 50 | 0.06 | 60 | 50 | 0.06 | — | — | 0.06 | 60 | 50 | 0.06 | 60 | 50 | | | |
| 3200 | 0.44 | — | — | — | — | — | — | — | 80 | 40 | — | — | — | — | — | — | | | |
| 4000 | 0.35 | — | — | — | 0.06 | 50 | 80 | 0.06 | 80 | 50 | 0.06 | 80 | 50 | 0.06 | 80 | 50 | | | |
| 4800 | 0.29 | — | — | — | — | — | — | — | — | — | 0.06 | 80 | 60 | — | — | — | | | |
| 5000 | 0.28 | — | — | — | 0.06 | 50 | 100 | 0.06 | 50 | 100 | — | — | — | 0.06 | 100 | 50 | | | |

| i | n2 | N1=1400r/min | | | E-RV040/075 | | | E-RV040/090 | | | E-RV050/110 | | | E-RV063/130 | | |
|------|------|--------------|------|------|-------------|------|------|-------------|------|-------|-------------|------|------|-------------|--|--|
| | | P1 (kw) | i040 | i075 | P1 (kw) | i040 | i090 | P1 (kw) | i050 | i0110 | P1 (kw) | i063 | i030 | | | |
| 300 | 4.7 | 0.37 | 10 | 30 | 0.37 | 10 | 30 | 0.75 | 10 | 30 | 1.5 | 10 | 30 | | | |
| 400 | 3.5 | 0.25 | 10 | 40 | 0.37 | 10 | 40 | 0.75 | 10 | 40 | 1 | 10 | 40 | | | |
| 500 | 2.8 | 0.25 | 10 | 50 | 0.37 | 10 | 50 | 0.55 | 20 | 25 | 1 | 10 | 50 | | | |
| 600 | 2.3 | 0.18 | 20 | 30 | 0.37 | 20 | 30 | 0.55 | 20 | 30 | 0.75 | 15 | 40 | | | |
| 750 | 1.9 | 0.18 | 25 | 30 | 0.25 | 25 | 30 | 0.55 | 25 | 30 | 0.75 | 25 | 30 | | | |
| 900 | 1.6 | 0.12 | 30 | 30 | 0.25 | 30 | 30 | 0.37 | 30 | 30 | 0.75 | 30 | 30 | | | |
| 1200 | 1.2 | 0.12 | 40 | 30 | 0.18 | 40 | 30 | 0.25 | 40 | 30 | 0.55 | 40 | 30 | | | |
| 1500 | 0.93 | 0.09 | 50 | 30 | 0.18 | 50 | 30 | 0.25 | 50 | 30 | 0.37 | 50 | 30 | | | |
| 1800 | 0.78 | 0.09 | 60 | 30 | 0.12 | 60 | 30 | 0.25 | 60 | 30 | 0.37 | 60 | 30 | | | |
| 2400 | 0.58 | 0.06 | 60 | 40 | 0.12 | 60 | 40 | 0.18 | 60 | 40 | 0.25 | 60 | 40 | | | |
| 3000 | 0.47 | 0.06 | 60 | 50 | 0.09 | 60 | 50 | 0.12 | 60 | 50 | 0.25 | 60 | 50 | | | |
| 4000 | 0.35 | 0.06 | 80 | 50 | 0.06 | 80 | 50 | 0.12 | 80 | 50 | 0.25 | 80 | 50 | | | |
| 5000 | 0.28 | 0.06 | 100 | 50 | 0.06 | 100 | 50 | 0.12 | 100 | 50 | 0.25 | 100 | 50 | | | |

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作为组合单位另行组合
You can choose 025、030、040、050、063、075、090、110、130、150 as combination unit to combine according to the fact your special needs.

四、E-UDL 无级变速器

E-UDL STEPLESS SPEED VARIATOR

产品概述 Summary



E-UDL...B3



E-UDL...B5

无线变速器简介 BRIEF INTRODUCTION TO STEPLESS SPEED VARIATOR

E-UDL系列无级变速器的设计，融合了国内外的先进技术，产品有以下主要特点：

- 1、调速精度高：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、机构紧凑，体积小。
- 8、采用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。E-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。

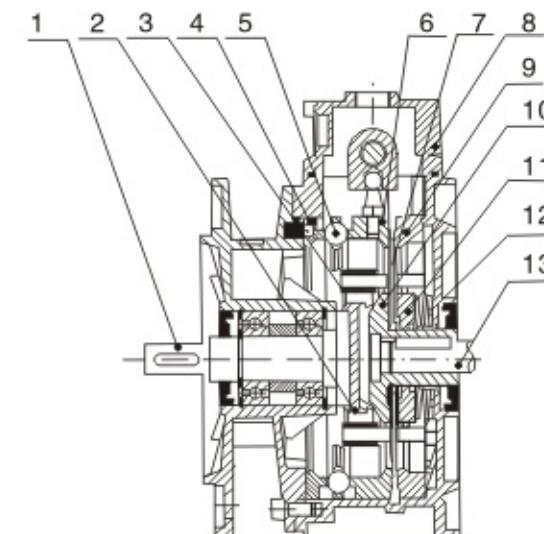
E-UDL系列无级变速器可广泛用于食品、包装、化工、制药、塑料、造纸、机床、交通以及各种需调速的自动生产线，输送装配流水线，是您机器上理想的伙伴。

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

- 1、High speed-regulating precision : up to 0.5-1 rotation.
- 2、Large 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 in high-quality aluminium alloy diecast into forming , good-looking in appearance , light in weight and it never gets rusty.
- 9、Good in adaptation: E-UDL series stepless speed variators can be combined with all kinds of speed reducers, as to achieve low stepless speed-changing.

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

结构 STRUCTURE



| | |
|---------|--------------------------------|
| 1、输出轴 | 1、Output shaft |
| 2、行星架 | 2、Planet carrier |
| 3、滑块 | 3、Friction bearing–planet disk |
| 4、调整轨 | 4、Cam ring |
| 5、钢珠环 | 5、Ball ring |
| 6、滑动轨 | 6、Adjustable annulus ring |
| 7、行星轮 | 7、Planet disk |
| 8、操作盒 | 8、Control cover |
| 9、固定轨 | 9、Fixed annulus ring |
| 10、太阳轮 | 10、Fixed sun race |
| 11、太阳轮片 | 11、Adjustable sun race |
| 12、蝶形弹簧 | 12、Belleville spring |
| 13、电机轴 | 13、Motor shaft |

E-UDL 型号标记 E-UDL MODEL MARK

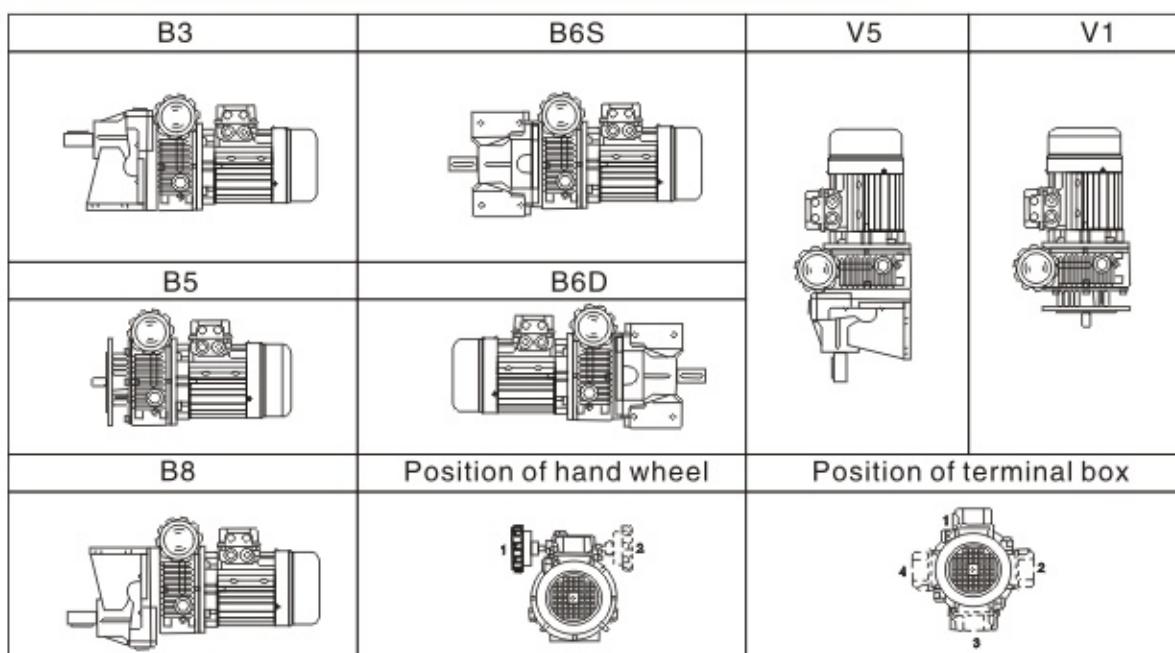
E-UD-L-0.75 B5 B5
 (1) (2) (3) (4) (5)

| NO | 说 明 | Comments |
|----|------------------------------|--|
| 1 | 无级变速器代号 | Code of step less speed variator |
| 2 | 1) L铝合金机壳 2) 不标注时为铸铁机壳 | 1)L:Aluminium alloy casing 2)No mark means iron casting |
| 3 | 电机功率 | Motor power |
| 4 | 1) B3脚底安装机型 2) B5法兰安装机型 | 1)B3:Foot-mounted model 2)B5:Flange-mounted model |
| 5 | 安装方位代号 | Code of installation position |

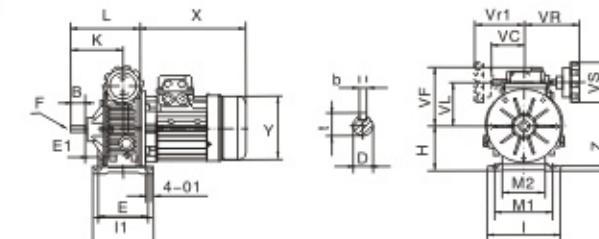
E-UDL 系列无级变速器性能参数**PERFORMANCE TABLE FOR E-UDL SERIES SPEED VARIATOR**

N1=1400 r/min

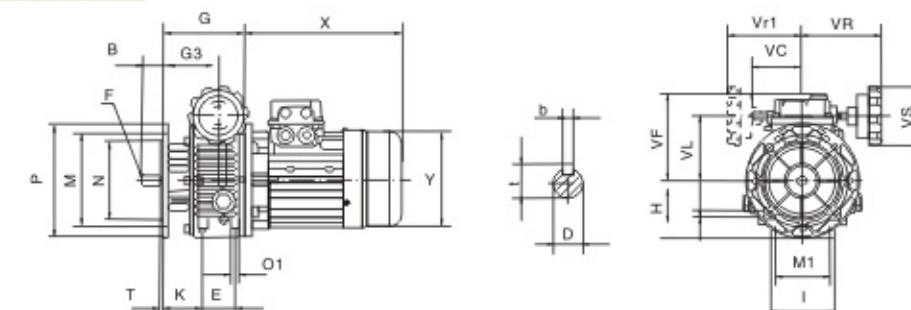
| B | 型号 Model | I | N ₂ [r/min] | M ₂ [Nm] |
|--------|-----------|---------|------------------------|---------------------|
| 0.18KW | E-UDL0.18 | 1.6~8.2 | 880~170 | 1.5~3 |
| 0.37KW | E-UDL0.37 | 1.4~7 | 1000~200 | 3~6 |
| 0.55KW | E-UDL0.55 | 1.4~7 | 1000~200 | 4~8 |
| 0.75KW | E-UDL0.75 | 1.4~7 | 1000~200 | 6~12 |
| 1.1KW | E-UDL1.1 | 1.4~7 | 1000~200 | 9~18 |
| 1.5KW | E-UDL1.5 | 1.4~7 | 1000~200 | 12~24 |
| 2.2KW | E-UDL2.2 | 1.4~7 | 1000~200 | 18~36 |
| 3.0KW | E-UDL3.0 | 1.4~7 | 1000~200 | 24~48 |
| 4.0KW | E-UDL4.0 | 1.4~7 | 1000~200 | 32~64 |
| 5.5KW | E-UDL5.5 | 1.4~7 | 1000~200 | 45~90 |
| 7.5KW | E-UDL7.5 | 1.4~7 | 1000~200 | 59~118 |

安装方位图 INSTALLATION POSITION DIAGRAM

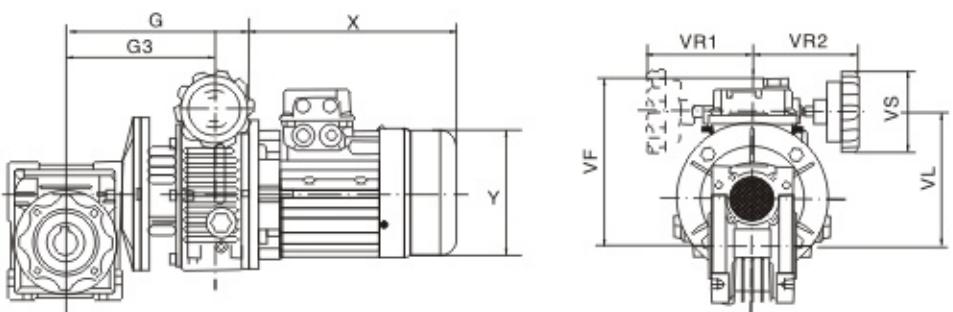
- 如果对接线盒位置有特殊要求,请在下单时如上图所示来指定接线盒安装方位,否则接线盒的位置按标准1形式提供.
- 如没有特殊要求,一般按出厂的标准位置B3或B5形式提供.
- 如需要特殊的位置,请与我们技术服务人员联系.
- For special requirements,orders must specify the position of the terminal box with reference to the diagram. Unless otherwise specified the terminal box , the position of that will be mounted as shown in the diagram for the mounting position.
- Unless specified otherwise , the standard positions are B3 or B5.
- For positions not envisaged , it is necessary to call our Technical Service.

B3型 (MODEL)

| | B | D _p | E | E1 | H | I | I1 | K | L | M1 | M2 | O1 | VC | VF | VL | VR | VR1 | VS | B | F | T | X | Y | Z |
|-------------|----|----------------|-----|----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|----|-----|------|-----|-----|----|
| E-UDL0.18B3 | 23 | 11 | 105 | 18 | 80 | 145 | 120 | 88 | 136 | 110 | 71 | 9 | 71 | 111 | 78 | 110 | 110 | 85 | 4 | - | 12.5 | 200 | 120 | 10 |
| E-UDL0.37B3 | 30 | 14 | 104 | 20 | 93 | 149 | 125 | 104 | 140 | 120 | 96 | 9 | 71 | 123 | 90 | 110 | 110 | 85 | 5 | M6 | 16 | 227 | 141 | 10 |
| E-UDL0.75B3 | 40 | 19 | 125 | 26 | 113 | 190 | 150 | 126 | 179 | 160 | 135 | 11 | 79 | 140 | 107 | 120 | 120 | 110 | 6 | M6 | 21.5 | 268 | 160 | 15 |
| E-UDL1.1B3 | 40 | 24 | 105 | 35 | 100 | 207 | 130 | 136 | 187 | 160 | 115 | 13 | - | 124 | 102 | 150 | - | 110 | 8 | M8 | 27 | 265 | 195 | 15 |
| E-UDL1.5B3 | 50 | 30 | 115 | 54 | 123 | 241 | 150 | 165 | 238 | 190 | 143 | 13 | - | 144 | 122 | 150 | - | 110 | 8 | M8 | 27 | 290 | 195 | 18 |
| E-UDL2.2B3 | 60 | 30 | 230 | 25 | 150 | 300 | 270 | 191 | 268 | 245 | 190 | 14 | - | 188 | 150 | 150 | - | 110 | 8 | M8 | 33 | 320 | 215 | 25 |
| E-UDL3.0B3 | 60 | 30 | 230 | 25 | 150 | 300 | 270 | 191 | 268 | 245 | 190 | 14 | - | 188 | 150 | 150 | - | 110 | 8 | M8 | 33 | 320 | 215 | 25 |
| E-UDL4.0B3 | 60 | 30 | 230 | 25 | 150 | 300 | 270 | 191 | 268 | 245 | 190 | 14 | - | 188 | 150 | 150 | - | 110 | 8 | M8 | 33 | 340 | 240 | 25 |
| E-UDL5.5B3 | 70 | 35 | 250 | 33 | 200 | 365 | 290 | 201 | 319 | 315 | 245 | 18 | - | - | 192 | 192 | - | 110 | 10 | M10 | 38 | 395 | 275 | 30 |
| E-UDL7.5B3 | 70 | 35 | 250 | 33 | 200 | 365 | 290 | 201 | 319 | 315 | 245 | 18 | - | - | 192 | 192 | - | 110 | 10 | M10 | 38 | 435 | 275 | 30 |

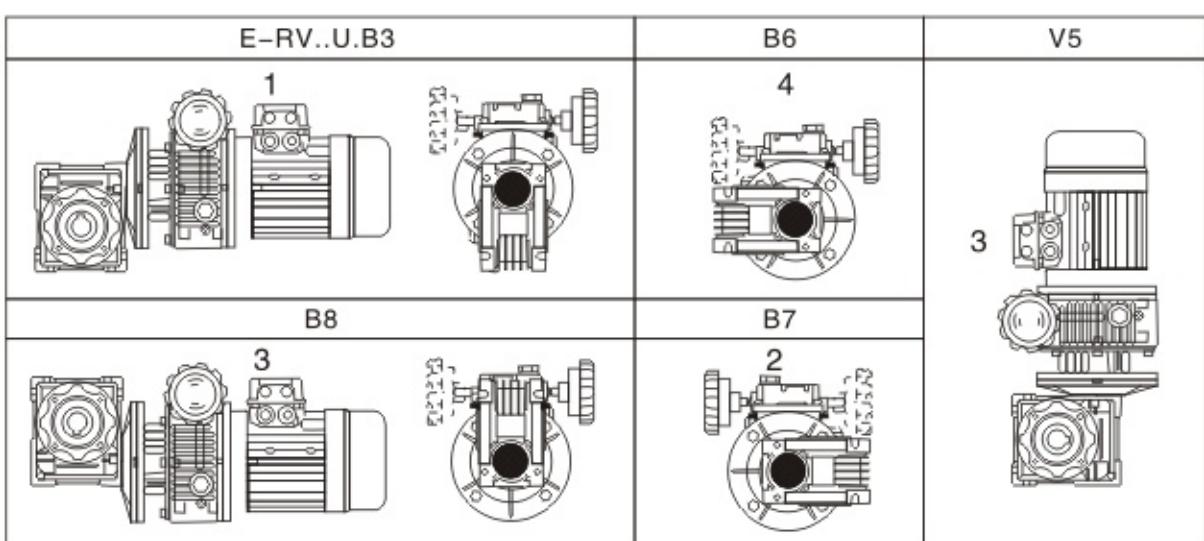
B5型 (MODEL)

| | B | D _p | E | G | G3 | H | I | M | M1 | N | D | D1 | P | T | K | VC | VF | VL | VR | VR1 | VS | B | F | T | X | Y |
|-------------|----|----------------|----|-----|------|-----|-----|-----|----|-----|----|----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|
| E-UDL0.18B3 | 23 | 11 | 50 | 113 | 64.5 | 70 | 72 | 115 | 60 | 95 | 9 | M6 | 140 | 3.5 | 46 | 71 | 111 | 78 | 110 | 110 | 85 | 4 | - | 13 | 200 | 120 |
| E-UDL0.37B3 | 30 | 14 | 40 | 110 | 74 | 80 | 90 | 130 | 77 | 110 | 9 | M8 | 160 | 3.5 | 53 | 71 | 123 | 90 | 100 | 110 | 85 | 5 | M6 | 16 | 227 | 141 |
| E-UDL0.75B3 | 40 | 19 | 58 | 139 | 85.5 | 100 | 98 | 165 | 84 | 130 | 11 | M8 | 200 | 3.5 | 60 | 79 | 140 | 107 | 120 | 120 | 110 | 6 | M6 | 22 | 268 | 160 |
| E-UDL1.1B3 | 40 | 24 | - | 147 | 95 | 98 | 207 | 165 | - | 130 | 11 | - | 200 | 3.5 | - | - | 124 | 102 | 150 | - | 110 | 8 | M8 | 27 | 265 | 195 |
| E-UDL1.5B3 | 50 | 24 | - | 188 | 115 | 126 | 241 | 165 | - | 130 | 11 | - | 200 | 3.5 | - | - | 144 | 122 | 150 | - | 110 | 8 | M8 | 27 | 290 | 195 |
| E-UDL2.2B3 | 60 | 30 | - | 208 | 131 | 150 | 270 | 165 | - | 230 | 15 | - | 300 | 4 | - | - | 188 | 150 | 160 | - | 100 | 8 | M8 | 33 | 320 | 215 |
| E-UDL3.0B3 | 60 | 30 | - | 208 | 131 | 150 | 270 | 265 | - | 230 | 15 | - | 300 | 4 | - | - | 188 | 150 | 160 | - | 100 | 8 | M8 | 33 | 320 | 215 |
| E-UDL4.0B3 | 60 | 30 | - | 208 | 131 | 150 | 270 | 265 | - | 230 | 15 | - | 300 | 4 | - | - | 188 | 150 | 160 | - | 110 | 8 | M8 | 33 | 320 | 240 |
| E-UDL5.5B3 | 70 | 35 | - | 244 | 131 | 200 | - | 300 | - | 250 | 19 | - | 350 | 5 | - | - | 192 | 194 | - | 110 | 10 | M10 | 38 | 395 | 275 | |
| E-UDL7.5B3 | 70 | 35 | - | 244 | 131 | 200 | - | 300 | - | 250 | 19 | - | 350 | 5 | - | - | 192 | 194 | - | 110 | 10 | M10 | 38 | 435 | 275 | |



| Model | G | G3 | VF | VL | VS | VR | VR1 | 机座号4P Base No.4P n1=1400r/min | X | Y |
|--------------------|-------|-------|-----|-----|-----|-----|-----|-------------------------------------|-----|-----|
| E-UDL0.18-E-RV040 | 183 | 135 | 151 | 118 | 85 | 110 | 110 | 63 | 200 | 120 |
| E-UDL0.18-E-RV050 | 193 | 145 | 161 | 128 | 85 | 110 | 110 | 71 | 227 | 141 |
| E-UDL0.37-E-RV050 | 190 | 154 | 173 | 140 | 85 | 110 | 110 | 80 | 268 | 160 |
| E-UDL0.37-E-RV063 | 205 | 169 | 186 | 153 | 85 | 110 | 110 | 71 | 227 | 141 |
| E-UDL0.55-E-RV063 | 234 | 181 | 203 | 170 | 110 | 120 | 120 | 80 | 268 | 160 |
| E-UDL0.75-E-RV063 | 234 | 181 | 203 | 170 | 110 | 120 | 120 | 80 | 268 | 160 |
| E-UDL0.37-E-RV0.75 | 223 | 187 | 198 | 165 | 85 | 110 | 110 | 80 | 268 | 160 |
| E-UDL0.55-E-RV075 | 252 | 198 | 215 | 182 | 110 | 120 | 120 | 80 | 268 | 160 |
| E-UDL0.75-E-RV075 | 252 | 198 | 215 | 182 | 110 | 120 | 120 | 90S | 265 | 195 |
| E-UD1.1-E-RV075 | 259.5 | 207.5 | 199 | 177 | 110 | 150 | - | 90L | 290 | 195 |
| E-UD1.5-E-RV075 | 300.5 | 227.5 | 219 | 197 | 110 | 150 | - | 90L | 290 | 195 |
| E-UDL0.55-E-RV090 | 269 | 215 | 230 | 197 | 110 | 120 | 120 | 80 | 268 | 160 |
| E-UDL0.75-E-RV090 | 269 | 215 | 230 | 197 | 110 | 120 | 120 | 90S | 265 | 195 |
| E-UD1.1-E-RV090 | 276.5 | 224.5 | 214 | 192 | 110 | 150 | - | 90L | 290 | 195 |
| E-UD1.5-E-RV090 | 317.5 | 244.5 | 234 | 212 | 110 | 150 | - | 90L | 290 | 195 |
| E-UD1.1-E-RV110 | 307 | 255 | 234 | 212 | 110 | 120 | - | 90S | 265 | 195 |
| E-UD1.5-E-RV110 | 348 | 275 | 254 | 232 | 110 | 150 | - | 90L | 290 | 195 |
| E-UD2.2-E-RV110 | 368 | 291 | 298 | 260 | 110 | 160 | - | 100L | 320 | 215 |
| E-UD3.0-E-RV110 | 368 | 291 | 298 | 260 | 110 | 160 | - | 112M | 340 | 240 |
| E-UD4.0-E-RV110 | 368 | 291 | 298 | 260 | 110 | 160 | - | 90L | 290 | 195 |
| E-UD1.5-E-RV130 | 368 | 295 | 274 | 252 | 110 | 150 | - | 100L | 320 | 215 |
| E-UD2.2-E-RV130 | 388 | 311 | 318 | 280 | 110 | 160 | - | 112M | 340 | 240 |
| E-UD3.0-E-RV130 | 388 | 311 | 318 | 280 | 110 | 160 | - | 90L | 290 | 195 |
| E-UD4.0-E-RV130 | 388 | 311 | 318 | 280 | 110 | 160 | - | 112M | 340 | 240 |

E-UDL…-E-RV…安装方位图 E-UDL - E-RV MOUNTED POSITION



使用与保养 Operation & Maintenance

1、轴伸形式全部圆柱形、按《圆柱形轴伸》GB1569-1990选定，键联接按《普通平键》GB1095-2003选定。

2、联轴器与电动机联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，或加热装配，严禁锤击！

4、机械无级变速器不宜用于可能超负荷或堵转使用场合。

5、调速应在运转中进行，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℃的环境中，温升不得高于45℃。关于本机的温升，请看下面介绍：

变速器采用四极电机时，此时部件在跑合（空车运转）开始时，温度高于正常工作的环境温度约40℃-50℃。跑合60-80小时后，温升逐渐下降，此后温度高于环境20℃，并保持稳定的温升。跑合时高的温升影响正常允许的工作条件，但对部件的使用寿命并无有害影响。

8、变速器采用润湿油油浴润滑。润滑油牌号为UBb-3x，使用前请检查油位。

9、出厂前润滑油已加入，首次使用2000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在油标的三分之二高度，用户应经常检查油位高度，严禁润滑不良的情况下使用，操作盒上透气螺母出厂时为防止搬运中漏油已旋紧，运转时须松开，严禁未松开使用。

1、The shapes of shaft extension are all cylindrical. It is subject to GB 1569-1990 Cylindrical shaft extension. The key joint refers to GE1095-2003 Ordinary flat key.

2、The shaft lines should be kept concentric when the coupling is connected with a motor. The instalation error should be no more than the tolerance value of the 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 mechinal stepless speed variator is not used in such an occasion where 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 temperature , especially no more than 45 temperature when the temperature rises . In regard to its temperature rise , please read the explanation as follows.

If a 4-pole motor is used for the speed variatcr , the temperature under running-in(empty running)is 40-50temperature higher than that of normal working environment . After running-in up to 60-80 hours , the temperature rise will go down gradually .

From that time on , it is 20 temperature higher than of environment ; and the temperatuer will keep on rising stably . The high temperature rise in running will affect normal permissive 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 tow-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 loosed when it starts to run . It is strictly forbidden to use it before loosing!

E-RV,E-RV-E-RV 性能参数 PERFORMANCE PARAMETER

参数

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | Fr2 [N] | fs | | |
|--------------------------|---------------|-------------|------|------------|-----|-------------|------|
| 0.06 (5614) | 186.7 | 2.6 | 7.5 | 503 | 4.2 | E-RV025 | 5614 |
| | 140 | 3.4 | 10 | 553 | 3.5 | | |
| | 93.3 | 4.9 | 15 | 633 | 2.5 | | |
| | 70 | 6.2 | 20 | 697 | 2 | | |
| | 56 | 7.5 | 25 | 751 | 1.8 | | |
| | 46.7 | 8.3 | 30 | 798 | 1.6 | | |
| | 35 | 10 | 40 | 878 | 1.3 | | |
| | 28 | 12 | 50 | 946 | 0.9 | | |
| | 23.3 | 14 | 60 | 1006 | 0.7 | | |
| | 186.7 | 2.6 | 7.5 | 683 | 6.9 | E-RV030 | 5614 |
| | 140 | 3.4 | 10 | 752 | 5.4 | | |
| | 93.3 | 4.7 | 15 | 861 | 3.8 | | |
| | 70 | 6 | 20 | 948 | 3 | | |
| | 56 | 7 | 25 | 1021 | 3 | | |
| 0.09 (5612) (5624) | 46.7 | 8 | 30 | 1085 | 2.5 | | |
| | 35 | 9.7 | 40 | 1194 | 1.9 | | |
| | 28 | 11.3 | 50 | 1286 | 1.5 | | |
| | 23.3 | 12.5 | 60 | 1367 | 1.3 | | |
| | 17.5 | 12.5 | 80 | 1504 | 0.9 | | |
| | 14 | 25 | 100 | 1620 | 1.3 | E-RV025/030 | 5614 |
| | 9.3 | 33 | 150 | 1830 | 0.9 | | |
| | 7 | 41 | 200 | 1830 | 0.7 | | |
| | 5.6 | 45 | 250 | 1830 | 0.8 | | |
| | 4.7 | 56 | 300 | 3490 | 1.2 | E-RV025/040 | 5614 |
| | 3.5 | 69 | 400 | 3490 | 0.9 | | |
| | 2.8 | 94 | 500 | 3490 | 0.7 | | |
| | 2.3 | 100 | 600 | 3490 | 0.6 | | |
| 0.28 (5614) | 1.9 | 115 | 750 | 3490 | 0.5 | | |
| | 1.6 | 125 | 900 | 3490 | 0.5 | | |
| | 1.2 | 153 | 1200 | 3490 | 0.4 | | |
| | 0.93 | 185 | 1500 | 3490 | 0.3 | | |
| | 0.78 | 198 | 1800 | 3490 | 0.3 | | |
| | 0.58 | 247 | 2400 | 3490 | 0.2 | | |
| | 0.47 | 280 | 3000 | 3490 | 0.2 | | |
| | 0.35 | 295 | 4000 | 3490 | 0.1 | | |
| | 0.28 | 348 | 5000 | 3490 | 0.1 | | |
| | 4.7 | 55 | 300 | 3490 | 1.3 | E-RV030/040 | 5614 |
| | 3.5 | 67 | 400 | 3490 | 0.9 | | |
| | 2.8 | 88 | 500 | 3490 | 0.6 | | |
| | 2.3 | 95 | 600 | 3490 | 0.7 | | |
| 0.28 (5614) | 1.9 | 103 | 750 | 3490 | 0.6 | | |
| | 1.6 | 118 | 900 | 3490 | 0.5 | | |
| | 1.2 | 143 | 1200 | 3490 | 0.4 | | |
| | 0.93 | 166 | 1500 | 3490 | 0.4 | | |
| | 0.78 | 184 | 1800 | 3490 | 0.3 | | |
| | 0.58 | 217 | 2400 | 3490 | 0.2 | | |
| | 0.44 | 247 | 3200 | 3490 | 0.2 | | |
| | 0.35 | 278 | 4000 | 3490 | 0.1 | | |
| | 0.28 | 327 | 5000 | 3490 | 0.1 | | |
| | 1.6 | 118 | 900 | 4840 | 1 | E-RV030/050 | 5614 |
| | 1.2 | 143 | 1200 | 4840 | 0.7 | | |
| | 0.93 | 166 | 1500 | 4840 | 0.7 | | |
| | 0.78 | 184 | 1800 | 4840 | 0.7 | | |
| | 0.58 | 227 | 2400 | 4840 | 0.5 | | |
| 0.29 (5614) | 0.47 | 256 | 3000 | 4840 | 0.4 | | |
| | 0.35 | 278 | 4000 | 4840 | 0.3 | | |
| | 0.29 | 316 | 4800 | 4840 | 0.3 | | |

| |
|---------|
| N1=1400 |
| N1=2800 |
| N1=900 |

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | Fr2 [N] | fs | | |
|--------------------------|---------------|-------------|------|------------|-----|-------------|------|
| 0.06 (5614) | 0.93 | 173 | 1500 | 6270 | 1.1 | E-RV030/063 | 5614 |
| | 0.78 | 191 | 1800 | 6270 | 0.9 | | |
| | 0.58 | 227 | 2400 | 6270 | 0.8 | | |
| | 0.47 | 256 | 3000 | 6270 | 0.7 | | |
| | 0.35 | 295 | 4000 | 6270 | 0.6 | | |
| | 0.28 | 327 | 5000 | 6270 | 0.4 | | |
| | 0.58 | 267 | 2400 | 7380 | 1.1 | E-RV040/075 | 5614 |
| | 0.47 | 305 | 3000 | 7380 | 0.8 | | |
| | 0.35 | 360 | 4000 | 7380 | 0.7 | | |
| | 0.28 | 409 | 5000 | 7380 | 0.5 | | |
| | 0.47 | 329 | 3000 | 8180 | 1.4 | E-RV040/090 | 5614 |
| | 0.35 | 393 | 4000 | 8180 | 1.3 | | |
| | 0.28 | 430 | 5000 | 8180 | 1 | | |
| | 373.3 | 2.0 | 7.5 | 399 | 3.9 | E-RV025 | 5612 |
| 0.09 (5612) (5624) | 280 | 2.6 | 10 | 439 | 3.4 | | |
| | 186.7 | 3.8 | 15 | 503 | 2.4 | | |
| | 140 | 4.9 | 20 | 553 | 1.9 | | |
| | 112 | 5.9 | 25 | 590 | 1.5 | | |
| | 93.3 | 6.7 | 30 | 633 | 1.3 | | |
| | 70 | 8.5 | 40 | 697 | 1.1 | | |
| | 56 | 10.0 | 50 | 751 | 0.9 | | |
| | 186.7 | 3.9 | 7.5 | 503 | 2.8 | E-RV025 | 5624 |
| | 140 | 5.1 | 10 | 553 | 2.4 | | |
| | 93.3 | 7.3 | 15 | 633 | 1.6 | | |
| | 70 | 9.3 | 20 | 697 | 1.3 | | |
| | 56 | 11 | 25 | 751 | 1.2 | | |
| | 46.7 | 13 | 30 | 798 | 1.1 | | |
| | 35 | 16 | 40 | 878 | 0.9 | | |
| 0.28 (5614) | 373.3 | 2.0 | 7.5 | 542 | 6.5 | E-RV030 | 5612 |
| | 280 | 2.6 | 10 | 597 | 5 | | |
| | 186.7 | 3.7 | 15 | 683 | 3.5 | | |
| | 140 | 4.7 | 20 | 752 | 2.5 | | |
| | 112 | 5.5 | 25 | 810 | 2.8 | | |
| | 93.3 | 6.4 | 30 | 861 | 2.3 | | |
| | 70 | 8.0 | 40 | 948 | 1.7 | | |
| | 56 | 9.4 | 50 | 1021 | 1.4 | | |
| | 46.7 | 10 | 60 | 1085 | 1.1 | | |
| | 35 | 13 | 80 | 1194 | 0.9 | | |
| | 186.7 | 3.9 | 7.5 | 683 | 4.6 | E-RV030 | 5624 |
| | 140 | 5.0 | 10 | 752 | 3.6 | | |
| | 93.3 | 7.0 | 15 | 861 | 2.5 | | |
| | 70 | 8.8 | 20 | 948 | 2 | | |
| 0.28 (5614) | 56 | 10 | 25 | 1021 | 1.9 | | |
| | 46.7 | 12 | 30 | 1085 | 1.7 | | |
| | 35 | 14 | 40 | 1194 | 1.2 | | |
| | 28 | 17 | 50 | 1286 | | | |

参数

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | Fr2 [N] | fs | | |
|------------------------------------|---------------|-------------|------|------------|-----|-------------|------|
| 0.09 (5612) (5624) | 2.3 | 135 | 600 | 1830 | 0.2 | E-RV025/030 | 5624 |
| | 1.9 | 149 | 750 | 1830 | 0.2 | | |
| | 1.6 | 167 | 900 | 1830 | 0.2 | | |
| | 1.2 | 201 | 1200 | 1830 | 0.1 | | |
| | 0.93 | 231 | 1500 | 1830 | 0.1 | | |
| | 0.78 | 264 | 1800 | 1830 | 0.1 | | |
| | 0.58 | 311 | 2400 | 1830 | 0.1 | | |
| | 0.47 | 347 | 3000 | 1830 | 0.1 | | |
| | 28 | 19 | 50 | 2475 | 2 | E-RV040 | 5624 |
| | 23.3 | 21 | 60 | 2630 | 1.7 | | |
| | 17.5 | 25 | 80 | 2895 | 1.3 | | |
| | 14 | 29 | 100 | 3118 | 1 | | |
| | 9.3 | 43 | 300 | 3490 | 1.6 | E-RV025/040 | 5612 |
| | 7 | 52 | 400 | 3490 | 1.2 | | |
| | 5.6 | 71 | 500 | 3490 | 0.8 | | |
| 0.12 (5622) (5614) | 4.7 | 82 | 300 | 3490 | 0.8 | E-RV030/040 | 5624 |
| | 3.5 | 103 | 400 | 4840 | 1.2 | E-RV030/050 | 5624 |
| | 2.8 | 120 | 500 | 4840 | 1 | | |
| | 2.3 | 146 | 600 | 4840 | 0.9 | | |
| | 1.9 | 158 | 750 | 4840 | 0.8 | | |
| | 1.6 | 177 | 900 | 4840 | 0.7 | | |
| | 1.6 | 188 | 900 | 6270 | 1 | E-RV030/063 | 5624 |
| | 1.2 | 222 | 1200 | 6270 | 0.9 | | |
| | 0.93 | 259 | 1500 | 6270 | 0.7 | | |
| | 0.93 | 305 | 1500 | 7380 | 1.1 | E-RV040/075 | 5624 |
| | 0.78 | 331 | 1800 | 7380 | 1 | | |
| | 0.58 | 400 | 2400 | 7380 | 0.7 | | |
| | 0.47 | 494 | 3000 | 8180 | 0.9 | E-RV040/090 | 5624 |
| | 0.35 | 589 | 4000 | 8180 | 0.8 | | |
| 0.18 (6312) (6324) (7116) | 373.3 | 2.7 | 7.5 | 399 | 3 | E-RV025 | 5622 |
| | 280 | 3.5 | 10 | 439 | 2.6 | | |
| | 186.7 | 5.1 | 15 | 503 | 1.8 | | |
| | 140 | 6.5 | 20 | 553 | 1.4 | | |
| | 112 | 7.9 | 25 | 590 | 1.1 | | |
| | 93.3 | 9.0 | 30 | 633 | 1 | | |
| | 70 | 11 | 40 | 697 | 0.8 | | |
| | 186.7 | 5.2 | 7.5 | 683 | 3.4 | E-RV030 | 6314 |
| | 140 | 6.6 | 10 | 752 | 2.7 | | |
| | 93.3 | 9.3 | 15 | 861 | 1.9 | | |
| | 70 | 12 | 20 | 948 | 1.5 | | |
| | 56 | 14 | 25 | 1021 | 1.5 | | |
| | 46.7 | 16 | 30 | 1085 | 1.3 | | |
| | 35 | 19 | 40 | 1194 | 0.9 | | |
| | 28 | 22 | 50 | 1286 | 0.8 | | |
| 0.12 (5622) (6314) | 46.7 | 17 | 30 | 2087 | 2.6 | E-RV040 | 6314 |
| | 35 | 21 | 40 | 2298 | 1.9 | | |
| | 28 | 25 | 50 | 2475 | 1.5 | | |
| | 23.3 | 28 | 60 | 2630 | 1.3 | | |
| | 17.5 | 33 | 80 | 2895 | 1 | | |
| | 14 | 38 | 100 | 3118 | 0.8 | | |
| | 23.3 | 29 | 60 | 3610 | 2.3 | E-RV050 | 6314 |
| | 17.5 | 35 | 80 | 3973 | 1.9 | | |
| | 14 | 39 | 100 | 4280 | 1.4 | | |
| | 4.7 | 112 | 300 | 4840 | 1.2 | E-RV030/050 | 6314 |
| | 3.5 | 138 | 400 | 4840 | 0.9 | | |
| | 2.8 | 160 | 500 | 4840 | 0.7 | | |
| | 2.8 | 168 | 500 | 6270 | 1.3 | E-RV030/063 | 6314 |

N1=1400
N1=2800
N1=900

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | Fr2 [N] | fs | | |
|------------------------------------|---------------|-------------|------|------------|-----|-------------|------|
| 0.12 (5622) (5614) | 2.3 | 199 | 600 | 6270 | 1.1 | E-RV030/063 | 6314 |
| | 1.9 | 217 | 750 | 6270 | 0.9 | | |
| | 1.6 | 279 | 900 | 7380 | 1.2 | E-RV040/075 | 6314 |
| | 1.2 | 344 | 1200 | 7380 | 0.9 | | |
| | 0.78 | 470 | 1800 | 8180 | 0.9 | E-RV040/090 | 6314 |
| | 0.58 | 593 | 2400 | 8180 | 0.9 | | |
| | 0.47 | 731 | 3000 | 10320 | 1.2 | E-RV050/110 | 6314 |
| | 0.35 | 884 | 4000 | 10320 | 1 | | |
| | 0.28 | 1023 | 5000 | 10320 | 0.8 | | |
| | 373.3 | 4 | 7.5 | 542 | 3.2 | E-RV030 | 6312 |
| | 280 | 5.2 | 10 | 597 | 2.5 | | |
| | 186.7 | 7.4 | 15 | 683 | 1.7 | | |
| | 140 | 9.5 | 20 | 752 | 1.3 | | |
| | 112 | 11 | 25 | 810 | 1.4 | | |
| 0.18 (6312) (6324) (7116) | 93.3 | 13 | 30 | 861 | 1.1 | | |
| | 70 | 16 | 40 | 948 | 0.9 | | |
| | 186.7 | 7.7 | 7.5 | 683 | 2.3 | E-RV030 | 6324 |
| | 140 | 10 | 10 | 752 | 1.8 | | |
| | 93.3 | 14 | 15 | 861 | 1.3 | | |
| | 70 | 18 | 20 | 948 | 1 | | |
| | 56 | 20 | 25 | 1021 | 0.9 | | |
| | 46.7 | 24 | 30 | 1085 | 0.8 | | |
| | 93.3 | 14 | 30 | 1657 | 2.4 | E-RV040 | 6312 |
| | 70 | 17 | 40 | 1824 | 1.8 | | |
| | 56 | 21 | 50 | 1964 | 1.4 | | |
| | 70 | 19 | 20 | 1824 | 2 | E-RV040 | 6324 |
| | 56 | 23 | 25 | 1964 | 1.7 | | |
| | 46.7 | 25 | 30 | 2087 | 1.7 | | |
| | 35 | 32 | 40 | 2298 | 1.3 | | |
| 0.28 (6312) (6324) (7116) | 28 | 37 | 50 | 2475 | 1 | | |
| | 23.3 | 42 | 60 | 2630 | 0.8 | | |
| | 45 | 28 | 20 | 2113 | 1.5 | E-RV040 | 7116 |
| | 36 | 34 | 25 | 2276 | 1.3 | | |
| | 30 | 38 | 30 | 2419 | 1.3 | | |
| | 22.5 | 47 | 40 | 2662 | 1 | | |
| | 46.7 | 24 | 60 | 2865 | 2.1 | E-RV050 | 6312 |
| | 35 | 30 | 80 | 3153 | 1.5 | | |
| | 28 | 34 | 100 | 3397 | 1.2 | | |
| | 35 | 33 | 40 | 3153 | 2.3 | E-RV050 | 6324 |
| | 28 | 39 | 50 | 3397 | 1.9 | | |
| | 23.3 | 44 | 60 | 3610 | 1.6 | | |
| | 17.5 | 52 | 80 | 3973 | 1.2 | | |
| | 14 | 59 | 100 | 4280 | 0.9 | | |
| 0.35 (6312) (6324) (7116) | 18 | 56 | 50 | 3936 | 1.4 | E-RV050 | 7116 |
| | 15 | 63 | 60 | 4183 | 1. | | |



参数

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | Fr2 [N] | fs | | |
|------------------------------------|---------------|-------------|------|------------|-----|-------------|------|
| 0.25 (6322) (7114) (7126) | 373.3 | 5.6 | 7.5 | 542 | 2.3 | E-RV030 | 6322 |
| | 280 | 7.2 | 10 | 597 | 1.8 | | |
| | 186.7 | 10 | 15 | 683 | 1.3 | | |
| | 140 | 13 | 20 | 752 | 0.9 | | |
| | 112 | 15 | 25 | 810 | 1 | | |
| | 93.3 | 18 | 30 | 861 | 0.8 | | |
| | 186.7 | 11 | 7.5 | 1315 | 3.6 | E-RV040 | 7114 |
| | 140 | 14 | 10 | 1447 | 2.8 | | |
| | 93.3 | 20 | 15 | 1657 | 1.9 | | |
| | 70 | 26 | 20 | 1824 | 1.5 | | |
| | 56 | 32 | 25 | 1964 | 1.2 | | |
| | 46.7 | 35 | 30 | 2087 | 1.3 | | |
| | 35 | 44 | 40 | 2298 | 0.9 | | |
| | 120 | 17 | 7.5 | 1524 | 2.6 | E-RV040 | 7126 |
| | 90 | 22 | 10 | 1677 | 2 | | |
| | 60 | 31 | 15 | 1920 | 1.4 | | |
| | 45 | 39 | 20 | 2113 | 1.1 | | |
| | 36 | 48 | 25 | 2276 | 0.9 | | |
| | 30 | 53 | 30 | 2419 | 0.9 | | |
| | 35 | 42 | 80 | 3153 | 1.1 | E-RV050 | 6322 |
| | 28 | 48 | 100 | 3397 | 0.8 | | |
| | 70 | 27 | 20 | 2503 | 2.7 | E-RV050 | 7114 |
| | 56 | 32 | 25 | 2696 | 2.2 | | |
| | 46.7 | 36 | 30 | 2865 | 2.3 | | |
| | 35 | 46 | 40 | 3153 | 1.7 | | |
| | 28 | 54 | 50 | 3397 | 1.4 | | |
| | 23.3 | 60 | 60 | 3610 | 1.1 | | |
| | 17.5 | 72 | 80 | 3973 | 0.9 | | |
| | 45 | 40 | 20 | 2900 | 1.9 | E-RV050 | 7126 |
| | 36 | 48 | 25 | 3124 | 1.5 | | |
| | 30 | 54 | 30 | 3320 | 1.7 | | |
| | 22.5 | 67 | 40 | 3654 | 1.2 | | |
| | 18 | 78 | 50 | 3936 | 1 | | |
| | 15 | 88 | 60 | 4183 | 0.8 | | |
| | 28 | 55 | 50 | 4440 | 2.4 | E-RV063 | 7114 |
| | 23.3 | 64 | 60 | 4719 | 2 | | |
| | 17.5 | 76 | 80 | 5193 | 1.6 | | |
| | 14 | 87 | 100 | 5595 | 1.4 | | |
| | 18 | 81 | 50 | 5145 | 1.8 | E-RV063 | 7126 |
| | 15 | 92 | 60 | 5467 | 1.5 | | |
| | 11.3 | 110 | 80 | 6018 | 1.2 | | |
| | 9 | 125 | 100 | 6270 | 1 | | |
| | 7 | 150 | 400 | 6270 | 1.4 | E-RV030/063 | 6322 |
| | 5.6 | 175 | 500 | 6270 | 1.2 | | |
| | 17.5 | 80 | 80 | 6130 | 2.3 | E-RV075 | 7114 |
| | 14 | 94 | 100 | 6603 | 1.9 | | |
| | 11.3 | 116 | 80 | 7103 | 1.7 | E-RV075 | 7126 |
| | 9 | 133 | 100 | 7380 | 1.4 | | |
| | 3.5 | 321 | 400 | 7380 | 1.1 | E-RV040/075 | 7114 |
| | 2.8 | 375 | 500 | 7380 | 0.8 | | |
| | 2.3 | 488 | 600 | 8180 | 1.2 | E-RV040/090 | 7114 |
| | 1.9 | 553 | 750 | 8180 | 0.9 | | |
| | 1.6 | 612 | 900 | 8180 | 0.8 | | |
| | 1.2 | 776 | 1200 | 10320 | 1.3 | E-RV050/110 | 7114 |
| | 0.93 | 924 | 1500 | 10320 | 1.2 | | |
| | 0.78 | 1010 | 1800 | 10320 | 1.1 | | |
| | 0.58 | 1358 | 2400 | 13500 | 1 | E-RV063/130 | 7114 |
| | 0.47 | 1626 | 3000 | 13500 | 0.8 | | |

N1=1400

N1=2800

N1=900

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | Fr2 [N] | fs | | |
|------------------------------------|---------------|-------------|------|------------|-----|-------------|------|
| 0.37 (7112) (7124) (8026) | 0.35 | 1910 | 4000 | 13500 | 0.6 | E-RV063/130 | 7114 |
| | 0.28 | 2132 | 5000 | 13500 | 0.5 | | |
| | 0.8 | 1199 | 1800 | 18000 | 1.8 | E-RV063/150 | 7114 |
| | 0.6 | 1446 | 2400 | 18000 | 1.8 | | |
| | 0.5 | 1713 | 3000 | 18000 | 1.4 | | |
| | 0.4 | 2026 | 4000 | 18000 | 0.9 | | |
| | 0.3 | 2251 | 5000 | 18000 | 0.7 | | |
| | 373.3 | 8.3 | 7.5 | 1044 | 3.3 | E-RV040 | 7112 |
| | 280 | 11 | 10 | 1149 | 2.6 | | |
| | 186.7 | 16 | 15 | 1315 | 1.9 | | |
| | 140 | 20 | 20 | 1447 | 1.4 | | |
| | 112 | 25 | 25 | 1559 | 1.1 | | |
| | 186.7 | 16 | 7.5 | 1315 | 24 | E-RV040 | 7124 |
| | 140 | 21 | 10 | 1447 | 1.9 | | |
| | 93.3 | 30 | 15 | 1657 | 1.3 | | |
| | 70 | 39 | 20 | 1824 | 1 | | |
| | 56 | 47 | 25 | 1964 | 0.8 | | |
| | 46.7 | 52 | 30 | 2087 | 0.8 | | |
| | 112 | 25 | 25 | 2140 | 2 | E-RV050 | 7112 |
| | 93.3 | 29 | 30 | 2274 | 2.2 | | |
| | 70 | 37 | 40 | 2503 | 1.6 | | |
| | 56 | 44 | 50 | 2696 | 1.2 | | |
| | 46.7 | 50 | 60 | 2865 | 1 | | |
| | 35 | 62 | 80 | 3153 | 0.7 | | |
| | 140 | 21 | 10 | 1987 | 3.3 | E-RV050 | 7124 |
| | 93.3 | 31 | 15 | 2274 | 2.4 | | |
| | 70 | 39 | 20 | 2503 | 1.8 | | |
| | 56 | 47 | 25 | 2696 | 1.5 | | |
| | 46.7 | 54 | 30 | 2865 | 1.5 | | |
| | 35 | 68 | 40 | 3153 | 1.1 | | |
| | 28 | 80 | 50 | 3397 | 0.9 | | |
| | 23.3 | 89 | 60 | 3610 | 0.8 | | |
| | 120 | 25 | 7.5 | 2091 | 3.3 | E-RV050 | 8016 |
| | 90 | 33 | 10 | 2302 | 2.5 | | |
| | 60 | 47 | 15 | 2635 | 1.8 | | |
| | 45 | 59 | 20 | 2900 | 1.3 | | |
| | 36 | 72 | 25 | 3124 | 1 | | |
| | 30 | 80 | 30 | 3320 | 1.1 | | |
| | 35 | 70 | 40 | 4122 | 2.1 | E-RV063 | 7124 |
| | 28 | 82 | 50 | 4440 | 1.6 | | |
| | 23.3 | 94 | 60 | 4719 | 1.4 | | |
| | 17.5 | 113 | 80 | 5193 | 1.1 | | |
| | 14 | 129 | 100 | 5595 | 0.9 | | |
| | 45 | 60 | 20 | 3791 | 2.4 | E-RV063 | 8016 |
| | 36 | 73 | 25 | 4084 | 1.9 | | |
| | 30 | 82 | 30 | 4339 | 2.1 | | |
| | | | | | | | |

参数

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | Fr2 [N] | fs | | |
|------------------------------------|---------------|-------------|------|------------|-----|-------------|------|
| 0.37 (7112) (7124) (8016) | 4.7 | 383 | 300 | 7380 | 1 | E-RV040/075 | 7124 |
| | 3.5 | 474 | 400 | 7380 | 0.7 | | |
| | 11.3 | 184 | 80 | 7859 | 1.7 | E-RV090 | 8016 |
| | 9 | 212 | 100 | 8180 | 1.3 | | |
| | 4.7 | 406 | 300 | 8180 | 1.5 | E-RV040/090 | 7124 |
| | 3.5 | 505 | 400 | 8180 | 1.2 | E-RV040/090 | 7124 |
| | 2.8 | 593 | 500 | 8180 | 0.9 | | |
| | 2.3 | 722 | 600 | 8180 | 0.8 | | |
| | 1.9 | 837 | 750 | 10320 | 1.3 | E-RV050/110 | 7124 |
| | 1.6 | 928 | 900 | 10320 | 1.2 | | |
| | 1.2 | 1148 | 1200 | 10320 | 0.8 | | |
| | 0.93 | 1444 | 1500 | 13500 | 1.1 | E-RV063/130 | 7124 |
| | 0.78 | 1586 | 1800 | 13500 | 0.9 | | |
| | 0.8 | 1774 | 1800 | 18000 | 1.2 | E-RV063/150 | 7124 |
| | 0.6 | 2141 | 2400 | 18000 | 1.2 | | |
| | 0.5 | 2535 | 3000 | 18000 | 0.9 | | |
| 0.55 (7122) (8014) (8026) | 373.3 | 12 | 7.5 | 1044 | 2.2 | E-RV040 | 7122 |
| | 280 | 16 | 10 | 1149 | 1.8 | | |
| | 186.7 | 24 | 15 | 1315 | 1.3 | | |
| | 140 | 30 | 20 | 1447 | 0.9 | | |
| | 112 | 37 | 25 | 1559 | 0.8 | | |
| | 140 | 31 | 20 | 1987 | 1.7 | E-RV050 | 7122 |
| | 112 | 38 | 25 | 2140 | 1.4 | | |
| | 93.3 | 43 | 30 | 2274 | 1.5 | | |
| | 70 | 55 | 40 | 2503 | 1.1 | | |
| | 56 | 65 | 50 | 2696 | 0.8 | | |
| | 46.7 | 74 | 60 | 2865 | 0.7 | | |
| | 186.7 | 24 | 7.5 | 1805 | 2.9 | E-RV050 | 8014 |
| | 140 | 32 | 10 | 1987 | 2.2 | | |
| | 93.3 | 46 | 15 | 2274 | 1.6 | | |
| 0.75 (8012) (8024) (90S6) | 70 | 59 | 20 | 2503 | 1.2 | | |
| | 56 | 70 | 25 | 2696 | 1 | | |
| | 46.7 | 80 | 30 | 2865 | 1 | | |
| | 120 | 37 | 7.5 | 2091 | 2.2 | E-RV050 | 8026 |
| | 90 | 48 | 10 | 2302 | 1.7 | | |
| | 60 | 69 | 15 | 2635 | 1.2 | | |
| | 45 | 88 | 20 | 2900 | 0.9 | | |
| | 70 | 56 | 40 | 3272 | 1.9 | E-RV063 | 7122 |
| | 56 | 68 | 50 | 3524 | 1.5 | | |
| | 46.7 | 78 | 60 | 3745 | 1.2 | | |
| | 35 | 96 | 80 | 4122 | 0.9 | | |
| | 28 | 111 | 100 | 4440 | 0.7 | | |
| | 70 | 60 | 20 | 3272 | 2.2 | E-RV063 | 8014 |
| | 56 | 72 | 25 | 3524 | 1.8 | | |
| 0.95 (8012) (8024) (90S6) | 46.7 | 82 | 30 | 3745 | 1.9 | | |
| | 35 | 104 | 40 | 4122 | 1.4 | | |
| | 28 | 122 | 50 | 4440 | 1.1 | | |
| | 23.3 | 140 | 60 | 4719 | 0.9 | | |
| | 60 | 70 | 15 | 3444 | 2.2 | E-RV063 | 8026 |
| | 45 | 90 | 20 | 3791 | 1.6 | | |
| | 36 | 108 | 25 | 4084 | 1.3 | | |
| | 30 | 123 | 30 | 4339 | 1.4 | | |
| | 22.5 | 152 | 40 | 4776 | 1.1 | | |
| | 35 | 99 | 80 | 4865 | 1.3 | E-RV075 | 7122 |
| | 28 | 116 | 100 | 5241 | 1 | | |
| | 35 | 108 | 40 | 4865 | 2 | E-RV075 | 8014 |
| | 28 | 128 | 50 | 5241 | 1.6 | | |

| |
|---------|
| N1=1400 |
| N1=2800 |
| N1=900 |

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | Fr2 [N] | fs | | |
|------------------------------------|---------------|-------------|------|------------|-----|-------------|------|
| 0.55 (7112) (8014) (8026) | 23.3 | 144 | 60 | 5569 | 1.4 | E-RV075 | 8014 |
| | 17.5 | 177 | 80 | 6130 | 1.1 | | |
| | 14 | 206 | 100 | 6603 | 0.9 | | |
| | 30 | 124 | 30 | 5122 | 2 | E-RV075 | 8026 |
| | 22.5 | 156 | 40 | 5637 | 1.5 | | |
| | 18 | 184 | 50 | 6073 | 1.2 | | |
| | 15 | 210 | 60 | 6453 | 1 | | |
| | 17.5 | 189 | 80 | 6783 | 1.5 | E-RV090 | 8014 |
| | 14 | 221 | 100 | 7306 | 1.2 | | |
| | 18 | 196 | 50 | 6719 | 2 | E-RV090 | 8026 |
| | 15 | 224 | 60 | 7140 | 1.6 | | |
| | 11.3 | 274 | 80 | 7859 | 1.1 | | |
| | 9 | 315 | 100 | 8180 | 0.9 | | |
| | 9.3 | 305 | 300 | 8180 | 2 | E-RV040/090 | 7122 |
| 0.75 (8012) (8024) (90S6) | 7 | 375 | 400 | 8180 | 1.5 | | |
| | 5.6 | 441 | 500 | 8180 | 1.2 | | |
| | 17.5 | 201 | 80 | 8571 | 2.6 | E-RV110 | 8014 |
| | 14 | 236 | 100 | 9232 | 2 | | |
| | 11.3 | 293 | 80 | 9931 | 1.9 | E-RV110 | 8026 |
| | 9 | 344 | 100 | 10320 | 1.5 | | |
| | 4.7 | 615 | 300 | 10320 | 2 | E-RV050/110 | 8014 |
| | 3.5 | 810 | 400 | 10320 | 1.4 | | |
| | 2.8 | 938 | 500 | 10320 | 1.1 | | |
| | 2.3 | 1096 | 600 | 10320 | 1 | | |
| | 1.9 | 1244 | 750 | 10320 | 0.9 | | |
| | 2.8 | 957 | 500 | 13500 | 1.6 | E-RV063/130 | 8014 |
| | 1.9 | 1382 | 750 | 13500 | 1.2 | | |
| | 1.2 | 2057 | 1200 | 13500 | 0.8 | | |
| 0.95 (8012) (8024) (90S6) | 0.8 | 2637 | 1800 | 1800 | 0.8 | E-RV063/150 | 8014 |
| | 0.6 | 3182 | 2400 | 2400 | 0.8 | | |
| | 373.3 | 17 | 7.5 | 1433 | 3 | E-RV050 | 8012 |
| | 280 | 22 | 10 | 1577 | 2.4 | | |
| | 186.7 | 31 | 15 | 1805 | 1.7 | | |
| | 140 | 41 | 20 | 1987 | 1.3 | | |
| | 112 | 49 | 25 | 2140 | 1 | | |
| | 93.3 | 56 | 30 | 2274 | 1.1 | | |
| | 186.7 | 33 | 7.5 | 1805 | 2.1 | E-RV050 | 8024 |
| | 140 | 43 | 10 | 1987 | 1.6 | | |
| | 93.3 | 62 | 15 | 2274 | 1.2 | | |
| | 70 | 80 | 20 | 2503 | 0.9 | | |
| | 140 | 43 | 20 | 2597 | 2.3 | E-RV063 | 8012 |
| | 112 | 52 | 25 | 2797 | 1.8 | | |
| 0.95 (8012) (8024) (90S6) | 93.3 | 60 | 30 | 2973 | 2 | | |
| | | | | | | | |

参数

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | Fr2 [N] | fs | | |
|------------------------------------|---------------|-------------|------|------------|-----|-------------|------|
| 0.75 (8012) (8024) (90S6) | 46.7 | 107 | 60 | 4421 | 1.3 | E-RV075 | 8012 |
| | 28 | 159 | 100 | 5241 | 0.8 | | |
| | 56 | 101 | 25 | 4160 | 2 | E-RV075 | 8024 |
| | 46.7 | 117 | 30 | 4421 | 2 | | |
| | 35 | 147 | 40 | 4865 | 1.5 | | |
| | 28 | 174 | 50 | 5241 | 1.2 | | |
| | 23.3 | 197 | 60 | 5569 | 1 | | |
| | 60 | 97 | 15 | 4065 | 2.4 | E-RV075 | 90S6 |
| | 45 | 124 | 20 | 4474 | 1.9 | | |
| | 36 | 149 | 25 | 4820 | 1.4 | | |
| | 30 | 170 | 30 | 5122 | 1.5 | | |
| | 22.5 | 213 | 40 | 5637 | 1.1 | | |
| | 35 | 143 | 80 | 5383 | 1.6 | E-RV090 | 8012 |
| | 28 | 169 | 100 | 5799 | 1.2 | | |
| | 28 | 182 | 50 | 5799 | 1.8 | E-RV090 | 8024 |
| | 23.3 | 209 | 60 | 6163 | 1.5 | | |
| | 17.5 | 258 | 80 | 6783 | 1.1 | | |
| | 14 | 302 | 100 | 7306 | 0.9 | | |
| | 30 | 179 | 30 | 5667 | 2.6 | E-RV090 | 90S6 |
| | 22.5 | 226 | 40 | 6238 | 1.8 | | |
| | 18 | 267 | 50 | 6719 | 1.4 | | |
| | 15 | 306 | 50 | 7140 | 1.4 | | |
| | 7 | 512 | 400 | 8180 | 1.1 | E-RV040/090 | 8012 |
| | 5.6 | 601 | 500 | 8180 | 0.9 | | |
| | 17.5 | 274 | 80 | 8571 | 1.9 | E-RV110 | 8024 |
| | 14 | 322 | 100 | 9232 | 1.5 | | |
| | 15 | 325 | 60 | 9023 | 2.1 | E-RV110 | 90S6 |
| | 11.3 | 399 | 80 | 9931 | 1.4 | | |
| | 9 | 470 | 100 | 10320 | 1.1 | | |
| | 9.3 | 424 | 300 | 10320 | 2.8 | E-RV050/110 | 8012 |
| | 7 | 553 | 400 | 10320 | 2.1 | | |
| | 5.6 | 640 | 500 | 10320 | 1.6 | | |
| | 4.7 | 838 | 300 | 10320 | 1.5 | E-RV050/110 | 8024 |
| | 3.5 | 1105 | 400 | 10320 | 1.1 | | |
| | 11.3 | 399 | 80 | 12989 | 2.1 | E-RV130 | 90S6 |
| | 9 | 470 | 100 | 13500 | 1.7 | | |
| | 2.8 | 1305 | 500 | 13500 | 1.1 | E-RV063/130 | 8024 |
| | 2.3 | 1557 | 600 | 13500 | 1 | | |
| | 1.9 | 1772 | 750 | 13500 | 0.9 | | |
| | 1.6 | 2014 | 900 | 13500 | 0.8 | | |
| | 2.8 | 1290 | 500 | 18000 | 1.8 | E-RV063/150 | 90L6 |
| | 2.3 | 1529 | 600 | 18000 | 1.7 | | |
| | 1.9 | 1783 | 750 | 18000 | 1.3 | | |
| | 1.6 | 2215 | 900 | 18000 | 0.9 | | |
| | 1.2 | 2680 | 1200 | 18000 | 1 | | |
| 1.1 (8022) (90L6) (90S4) | 373.3 | 25 | 7.5 | 1433 | 2.1 | E-RV050 | 8022 |
| | 280 | 33 | 10 | 1577 | 1.6 | | |
| | 186.7 | 48 | 15 | 1805 | 1.2 | | |
| | 140 | 62 | 20 | 1987 | 0.9 | | |
| | 186.7 | 46 | 15 | 2359 | 2.1 | E-RV063 | 8022 |
| | 140 | 60 | 20 | 2597 | 1.6 | | |
| | 112 | 72 | 25 | 2797 | 1.2 | | |
| 1.1 (8022) (90L6) (90S4) | 93.3 | 82 | 30 | 2973 | 1.1 | | |
| | 70 | 104 | 40 | 3272 | 1 | | |
| | 120 | 75 | 7.5 | 2734 | 2 | E-RV063 | 90L6 |
| | 90 | 98 | 10 | 3009 | 1.5 | | |
| | 60 | 140 | 15 | 3444 | 1.1 | | |
| | 45 | 180 | 20 | 3791 | 0.8 | | |

N1=1400
N1=2800
N1=900

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | Fr2 [N] | fs | | |
|-----------------------------------|---------------|-------------|-----|------------|-----|-------------|------|
| 1.1 (8022) (90L6) (90S4) | 186.7 | 50 | 7.5 | 2359 | 2.6 | E-RV063 | 90S4 |
| | 140 | 65 | 10 | 2597 | 2 | | |
| | 93.3 | 92 | 15 | 2973 | 1.5 | | |
| | 70 | 120 | 20 | 3272 | 1.1 | | |
| | 56 | 144 | 25 | 3524 | 0.9 | | |
| | 46.7 | 164 | 30 | 3745 | 1 | | |
| | 112 | 77 | 25 | 3302 | 1.9 | E-RV075 | 8022 |
| | 93.3 | 89 | 30 | 3509 | 1.9 | | |
| | 70 | 114 | 40 | 3862 | 1.4 | | |
| | 56 | 137 | 50 | 4160 | 1.1 | | |
| | 46.7 | 157 | 60 | 4421 | 0.9 | | |
| | 90 | 98 | 10 | 3551 | 2.3 | E-RV075 | 90L6 |
| | 60 | 142 | 15 | 4065 | 1.6 | | |
| | 45 | 182 | 20 | 4474 | 1.3 | | |
| | 36 | 219 | 25 | 4820 | 1 | | |
| | 30 | 249 | 30 | 5122 | 1 | | |
| | 93.3 | 95 | 15 | 3509 | 2.1 | E-RV075 | 90S4 |
| | 70 | 122 | 20 | 3862 | 1.7 | | |
| | 56 | 148 | 25 | 4160 | 1.3 | | |
| | 46.7 | 171 | 30 | 4421 | 1.3 | | |
| | 35 | 216 | 40 | 4865 | 1 | | |
| | 35 | 210 | 80 | 5383 | 1.1 | E-RV090 | 8022 |
| | 28 | 248 | 100 | 5799 | 0.8 | | |
| | 36 | 228 | 25 | 5333 | 1.6 | E-RV090 | 90L6 |
| | 30 | 263 | 30 | 5667 | 1.8 | | |
| | 22.5 | 331 | 40 | 6238 | 1.2 | | |
| | 18 | 391 | 50 | 6719 | 1 | | |
| | 15 | 448 | 60 | 7140 | 0.8 | | |
| | 35 | 222 | 40 | 5383 | 1.6 | E-RV090 | 90S4 |
| | 28 | 266 | 50 | 5799 | 1.3 | | |
| | 23.3 | 307 | 60 | 6163 | 1 | | |
| | 22.5 | 345 | 40 | 7882 | 2.3 | E-RV110 | 90L6 |
| | 18 | 414 | 50 | 8491 | 1.8 | | |
| | 15 | 476 | 60 | 9023 | 1.4 | | |
| | 11.3 | 586 | 80 | 9931 | 1 | | |
| | 28 | 278 | 50 | 7328 | 2.3 | E-RV110 | 90S4 |
| | 23.3 | 325 | 60 | 7787 | 1.9 | | |
| | 17.5 | 402 | 80 | 8571 | 1.3 | | |
| | 14 | 473 | 100 | 9232 | 1 | | |
| | 9.3 | 621 | 300 | 10320 | 1.9 | E-RV050/110 | 8022 |
| | 7 | 810 | 400 | 10320 | 1.4 | | |
| | 5.6 | 938 | 500 | 10320 | 1.1 | | |
| | 11.3 | 586 | 80 | 12989 | 1.4 | E-RV130 | 90L6 |
| | 9 | 689 | 100 | 13500 | 1.1 | | |
| | 17.5 | 408 | 80 | 11210 | 2.1 | E-RV130 | 90S4 |
| | 14 | 480 | | | | | |

参数

| |
|---------|
| N1=1400 |
| N1=2800 |
| N1=900 |

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | Fr2 [N] | fs | | |
|------------------------------------|---------------|-------------|-----|------------|-----|-------------|-------|
| 1.5 (90S2) (90L4) (100L6) | 373.3 | 34 | 7.5 | 1433 | 1.5 | E-RV050 | 90S2 |
| | 280 | 45 | 10 | 1577 | 1.2 | | |
| | 186.7 | 65 | 15 | 1805 | 0.9 | | |
| | 186.7 | 68 | 7.5 | 2359 | 1.9 | E-RV063 | 90L4 |
| | 140 | 88 | 10 | 2597 | 1.5 | | |
| | 93.3 | 126 | 15 | 2973 | 1.1 | | |
| | 70 | 164 | 20 | 3272 | 0.8 | | |
| | 373.3 | 35 | 7.5 | 1873 | 2.7 | E-RV063 | 90S2 |
| | 280 | 45 | 10 | 2061 | 2.1 | | |
| | 186.7 | 66 | 15 | 2359 | 1.6 | | |
| | 140 | 86 | 20 | 2597 | 1.2 | | |
| | 112 | 105 | 25 | 2797 | 0.9 | | |
| | 93.3 | 120 | 30 | 2973 | 1 | | |
| | 120 | 103 | 7.5 | 3227 | 2 | E-RV075 | 100L6 |
| | 90 | 134 | 10 | 3551 | 1.7 | | |
| | 60 | 193 | 15 | 4065 | 1.2 | | |
| | 140 | 89 | 10 | 3065 | 2.2 | E-RV075 | 90L4 |
| | 93.3 | 129 | 15 | 3509 | 1.5 | | |
| | 70 | 166 | 20 | 3862 | 1.3 | | |
| | 56 | 202 | 25 | 4160 | 1 | | |
| | 46.7 | 233 | 30 | 4421 | 1 | | |
| | 280 | 45 | 10 | 2433 | 3.1 | E-RV075 | 90S2 |
| | 186.7 | 66 | 15 | 2785 | 2.2 | | |
| | 140 | 86 | 20 | 3065 | 1.8 | | |
| | 112 | 105 | 25 | 3302 | 1.4 | | |
| | 93.3 | 121 | 30 | 3509 | 1.4 | | |
| | 70 | 156 | 40 | 3862 | 1 | | |
| | 56 | 187 | 50 | 4160 | 0.8 | | |
| | 46.7 | 215 | 60 | 4421 | 0.7 | | |
| | 90 | 137 | 10 | 3929 | 2.7 | E-RV090 | 100L6 |
| | 60 | 198 | 15 | 4498 | 2.1 | | |
| | 45 | 258 | 20 | 4951 | 1.5 | | |
| | 36 | 310 | 25 | 5333 | 1.2 | | |
| | 30 | 358 | 30 | 5667 | 1.3 | | |
| | 70 | 170 | 20 | 4273 | 2.1 | E-RV090 | 90L4 |
| | 56 | 207 | 25 | 4603 | 1.6 | | |
| | 46.7 | 239 | 30 | 4891 | 1.7 | | |
| | 35 | 303 | 40 | 5383 | 1.2 | | |
| | 28 | 363 | 50 | 5799 | 0.9 | | |
| | 23.3 | 418 | 60 | 6163 | 0.8 | | |
| | 56 | 197 | 50 | 4603 | 1.4 | E-RV090 | 90S4 |
| | 46.7 | 227 | 60 | 4891 | 1.1 | | |
| | 45 | 264 | 20 | 6256 | 2.7 | E-RV110 | 100L6 |
| | 36 | 322 | 25 | 6739 | 2.4 | | |
| | 30 | 363 | 30 | 7161 | 2.3 | | |
| | 22.5 | 471 | 40 | 7882 | 1.7 | | |
| | 18 | 565 | 50 | 8491 | 1.3 | | |
| | 15 | 649 | 60 | 9023 | 1.1 | | |
| | 35 | 315 | 40 | 6803 | 2.2 | E-RV110 | 90L4 |
| | 28 | 379 | 50 | 7328 | 1.7 | | |
| | 23.3 | 443 | 60 | 7787 | 1.4 | | |
| | 17.5 | 548 | 80 | 8571 | 0.9 | | |
| | 46.7 | 236 | 60 | 6181 | 2 | E-RV110 | 90S2 |
| | 35 | 299 | 80 | 6803 | 1.3 | | |
| | 28 | 358 | 100 | 7328 | 1 | | |
| | 9.3 | 847 | 300 | 10320 | 1.4 | E-RV050/110 | 90S2 |
| | 7 | 1105 | 400 | 10320 | 1 | | |
| | 5.6 | 1279 | 500 | 10320 | 0.8 | | |

参数

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | Fr2 [N] | fs | | |
|------------------------------------|---------------|-------------|-----|------------|-----|-------------|------------|
| 1.5 (90S2) (90L4) (100L6) | 22.5 | 471 | 40 | 10309 | 2.3 | E-RV130 | 100L6 |
| | 18 | 565 | 50 | 11105 | 1.8 | | |
| | 15 | 659 | 60 | 11801 | 1.4 | | |
| | 11.3 | 799 | 80 | 12989 | 1.1 | | |
| | 17.5 | 557 | 80 | 11210 | 1.5 | E-RV130 | 90L4 |
| | 14 | 655 | 100 | 12076 | 1.1 | | |
| | 9.3 | 878 | 300 | 13500 | 1.9 | E-RV063/130 | 90S2 |
| | 7 | 1105 | 400 | 13500 | 1.4 | | |
| | 5.6 | 1305 | 500 | 13500 | 1.1 | | |
| | 4.7 | 1737 | 300 | 13500 | 1 | E-RV063/130 | 90L4 |
| | 3.5 | 2210 | 400 | 13500 | 0.7 | | |
| | 9.3 | 1026 | 150 | 18000 | 2.3 | E-RV063/150 | 90L4 |
| | 7 | 1317 | 200 | 18000 | 1.8 | | |
| | 5.6 | 1602 | 250 | 18000 | 1.3 | | |
| | 4.7 | 1860 | 300 | 18000 | 1.3 | | |
| | 3.5 | 2208 | 400 | 18000 | 1.2 | | |
| | 2.8 | 2582 | 500 | 18000 | 0.9 | | |
| | 2.3 | 3057 | 600 | 18000 | 0.9 | | |
| | 373.3 | 51 | 7.5 | 1873 | 1.8 | E-RV063 | 90L2 |
| | 280 | 66 | 10 | 2061 | 1.5 | | |
| | 186.7 | 97 | 15 | 2359 | 1.1 | | |
| | 186.7 | 99 | 7.5 | 2785 | 1.8 | E-RV075 | 100LA4 |
| | 140 | 131 | 10 | 3065 | 1.5 | | |
| | 93.3 | 189 | 15 | 3509 | 1 | | |
| | 373.3 | 50 | 7.5 | 2210 | 2.5 | E-RV075 | 90L2 |
| | 280 | 66 | 10 | 2433 | 2.1 | | |
| | 186.7 | 97 | 15 | 2785 | 1.5 | | |
| | 140 | 126 | 20 | 3065 | 1.3 | | |
| | 112 | 154 | 25 | 3302 | 1 | | |
| | 93.3 | 178 | 30 | 3509 | 0.9 | | |
| | 186.7 | 100 | 7.5 | 3081 | 2.9 | E-RV090 | 100LA4 |
| | 140 | 132 | 10 | 3391 | 2.3 | | |
| | 93.3 | 191 | 15 | 3882 | 1.9 | | |
| | 70 | 249 | 20 | 4273 | 1.4 | | |
| | 56 | 304 | 25 | 4603 | 1.1 | | |
| | 46.7 | 351 | 30 | 4891 | 1.2 | | |
| | 120 | 154 | 7.5 | 3570 | 2.2 | E-RV090 | 112M6 |
| | 90 | 201 | 10 | 3929 | 1.8 | | |
| | 60 | 291 | 15 | 4498 | 1.4 | | |
| | 45 | 378 | 20 | 4951 | 1 | | |
| | 140 | 129 | 20 | 3391 | 2 | E-RV090 | 90L2 |
| | 112 | 159 | 25 | 3653 | 1.6 | | |
| | 93.3 | 185 | 30 | 3882 | 1.7 | | |
| | 70 | 237 | 40 | 4273 | 1.2 | | |
| | 56 | 289 | 50 | 4603 | 0.9 | | |
| | 70 | 255 | 20 | 5399 | 2.5 | E-RV110 | 100LA4</td |

参数

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | Fr2 [N] | fs | | |
|---------------------------------------|---------------|-------------|-----|------------|-----|---------|--------|
| 2.2 (90L2) (100LA4) (112M6) | 70 | 243 | 40 | 5399 | 2.1 | E-RV110 | 90L2 |
| | 56 | 296 | 50 | 5816 | 1.7 | | |
| | 46.7 | 346 | 60 | 6181 | 1.4 | | |
| | 35 | 468 | 40 | 8897 | 2.2 | E-RV130 | 100LA4 |
| | 28 | 563 | 50 | 9584 | 1.7 | | |
| | 23.3 | 658 | 60 | 10185 | 1.4 | | |
| | 17.5 | 816 | 80 | 11210 | 1 | | |
| | 36 | 473 | 25 | 8814 | 2.2 | E-RV130 | 112M6 |
| | 30 | 539 | 30 | 9366 | 2.1 | | |
| | 22.5 | 691 | 40 | 10309 | 1.6 | | |
| | 18 | 829 | 50 | 11105 | 1.2 | | |
| | 15 | 966 | 60 | 11801 | 1 | | |
| | 35 | 444 | 80 | 8897 | 1.3 | E-RV130 | 90L2 |
| | 28 | 525 | 100 | 9584 | 1 | | |
| | 28 | 570 | 50 | 13100 | 2.5 | E-RV150 | 100LA4 |
| | 23.3 | 657 | 60 | 13920 | 1.9 | | |
| | 17.5 | 816 | 80 | 15320 | 1.4 | | |
| | 14 | 960 | 100 | 16500 | 1 | | |
| 3.0 (100L2) (100LB4) (132S6) | 373.3 | 68 | 7.5 | 2210 | 1.9 | E-RV075 | 100L2 |
| | 280 | 90 | 10 | 2433 | 1.6 | | |
| | 186.7 | 135 | 7.5 | 2785 | 1.4 | E-RV075 | 100LB4 |
| | 140 | 178 | 10 | 3065 | 1.1 | | |
| | 93.3 | 258 | 15 | 3509 | 0.8 | | |
| | 373.3 | 70 | 7.5 | 2446 | 3 | E-RV090 | 100L2 |
| | 280 | 92 | 10 | 2692 | 2.6 | | |
| | 186.7 | 137 | 7.5 | 3081 | 2.1 | E-RV090 | 100LB4 |
| | 140 | 180 | 10 | 3391 | 1.7 | | |
| | 93.3 | 261 | 15 | 3882 | 1.4 | | |
| | 70 | 340 | 20 | 4273 | 1 | | |
| | 56 | 414 | 25 | 4603 | 0.8 | | |
| | 46.7 | 479 | 30 | 4891 | 0.9 | | |
| | 93.3 | 264 | 15 | 4905 | 2.5 | E-RV110 | 100LB4 |
| | 70 | 348 | 20 | 5399 | 1.9 | | |
| 5.5 (132S4) | 56 | 425 | 25 | 5816 | 1.6 | | |
| | 46.7 | 485 | 30 | 6181 | 1.5 | | |
| | 35 | 630 | 40 | 6803 | 1.1 | | |
| | 28 | 757 | 50 | 7328 | 0.9 | | |
| | 120 | 210 | 7.5 | 4511 | 3.1 | E-RV110 | 132S6 |
| | 90 | 277 | 10 | 4965 | 2.5 | | |
| | 60 | 401 | 15 | 5684 | 1.9 | | |
| | 45 | 528 | 20 | 6256 | 1.4 | | |
| | 56 | 430 | 25 | 7607 | 2.2 | E-RV130 | 100LB4 |
| | 46.7 | 491 | 30 | 8084 | 2.1 | | |
| | 35 | 638 | 40 | 8897 | 1.6 | | |
| | 28 | 767 | 50 | 9584 | 1.3 | | |
| | 23.3 | 898 | 60 | 10185 | 1 | | |
| | 17.5 | 1113 | 80 | 11210 | 0.8 | | |
| | 90 | 277 | 10 | 6494 | 3.4 | E-RV130 | 132S6 |
| | 60 | 406 | 15 | 7434 | 2.6 | | |
| | 45 | 528 | 20 | 8182 | 1.9 | | |
| | 36 | 645 | 25 | 8814 | 1.6 | | |
| | 30 | 735 | 30 | 9366 | 1.6 | | |
| | 22.5 | 942 | 40 | 10309 | 1.2 | | |

N1=1400

N1=2800

N1=900

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | Fr2 [N] | fs | | |
|---------------------------------------|---------------|-------------|-----|------------|---------|---------|--------|
| 3.0 (100L2) (100LB4) (132S6) | 28 | 777 | 50 | 13100 | 1.8 | E-RV150 | 100LB4 |
| | 23.3 | 896 | 60 | 13920 | 1.4 | | |
| | 17.5 | 1113 | 80 | 15320 | 1 | | |
| | 14 | 1310 | 100 | 16500 | 0.8 | | |
| 4.0 (112M2) (112M4) (132MA6) | 373.3 | 91 | 7.5 | 2210 | 1.4 | E-RV075 | 112M2 |
| | 280 | 120 | 10 | 2433 | 1.2 | | |
| | 186.7 | 180 | 7.5 | 2785 | 1 | E-RV075 | 112M4 |
| | 140 | 237 | 10 | 3065 | 0.8 | | |
| | 373.3 | 93 | 7.5 | 2446 | 2.2 | E-RV090 | 112M2 |
| | 280 | 123 | 10 | 2692 | 1.9 | | |
| | 186.7 | 182 | 7.5 | 3081 | 1.6 | E-RV090 | 112M4 |
| | 140 | 240 | 10 | 3391 | 1.3 | | |
| | 93.3 | 348 | 15 | 3882 | 1 | | |
| | 70 | 453 | 20 | 4273 | 0.8 | | |
| | 140 | 240 | 10 | 4285 | 2.5 | E-RV110 | 112M4 |
| | 93.3 | 352 | 15 | 4905 | 1.9 | | |
| | 70 | 464 | 20 | 5399 | 1.4 | | |
| | 56 | 566 | 25 | 5816 | 1.2 | | |
| 5.5 (132S4) | 46.7 | 646 | 30 | 6181 | 1.1 | | |
| | 120 | 280 | 7.5 | 4511 | 2.3 | E-RV110 | 132MA6 |
| | 90 | 369 | 10 | 4965 | 1.9 | | |
| | 60 | 535 | 15 | 5684 | 1.4 | | |
| | 56 | 573 | 25 | 7607 | 1.6 | E-RV130 | 112M4 |
| | 46.7 | 654 | 30 | 8084 | 1.6 | | |
| | 35 | 851 | 40 | 8897 | 1.2 | | |
| | 28 | 1023 | 50 | 9584 | 1 | | |
| | 23.3 | 1197 | 60 | 10185 | 0.8 | | |
| | 120 | 283 | 7.5 | 5901 | 3.1 | E-RV130 | 132MA6 |
| | 90 | 369 | 10 | 6494 | 2.6 | | |
| | 60 | 541 | 15 | 7434 | 2 | | |
| | 45 | 705 | 20 | 8182 | 1.5 | | |
| | 36 | 860 | 25 | 8814 | 1.2 | | |
| 5.5 (132S4) | 28 | 1036 | 50 | 13100 | 1.4 | E-RV150 | 112M4 |
| | 23.3 | 1195 | 60 | 13920 | 1.1 | | |
| | 17.5 | 1484 | 80 | 15320 | 0.8 | | |
| | 186.7 | 250 | 7.5 | 3893 | 2.2 | E-RV110 | 132S4 |
| | 140 | 330 | 10 | 4285 | 1.8 | | |
| | 93.3 | 484 | 15 | 4905 | 1.4 | | |
| | 70 | 638 | 20 | 5399 | 1 | | |
| | 140 | 334 | 10 | 5605 | 2.5 | E-RV130 | 132S4 |
| | 93.3 | 490 | 15 | 6416 | 1.9 | | |
| | 70 | 638 | 20 | 7062 | 1.4 | | |
| | 56 | 788 | 25 | 7607 | 1.2 | | |
| | 46.7 | 900 | 30 | 8084 | 1.2 | | |
| | 35 | 1171 | 40 | 8897 | 0.9 | | |
| | 70 | 645 | 20 | 9650 | 2 | E-RV150 | 132S4 |
| | 56 | 788 | 25 | 10400 | 1.5 | | |
| | 46.7 | 934 | 30 | 11050 | 1.3 | | |
| | 35 | 1171 | 40 | 12160 | 1.3</td | | |

参数

参数

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | Fr2 [N] | fs | | |
|----------------|---------------|-------------|------|------------|---------|---------|-------|
| 7.5 (132M4) | 186.7 | 341 | 7.5 | 3893 | 1.6 | E-RV110 | 132M4 |
| | 140 | 450 | 10 | 4285 | 1.3 | | |
| | 93.3 | 660 | 15 | 4905 | 1 | | |
| | 186.7 | 345 | 7.5 | 5092 | 2.1 | E-RV130 | 132M4 |
| | 140 | 455 | 10 | 5605 | 1.8 | | |
| | 93.3 | 668 | 15 | 6416 | 1.4 | | |
| | 70 | 870 | 20 | 7062 | 1 | | |
| | 56 | 1074 | 25 | 7607 | 0.9 | | |
| | 46.7 | 1227 | 30 | 8084 | 0.8 | | |
| | 35 | 1596 | 40 | 8897 | 0.7 | | |
| | 70 | 880 | 20 | 9650 | 1.5 | E-RV150 | 132S4 |
| | 56 | 1074 | 25 | 10400 | 1.1 | | |
| | 46.7 | 1274 | 30 | 11050 | 0.9 | | |
| | 35 | 4596 | 40 | 12160 | 1 | | |
| 186.7 | 512 | 7.5 | 6960 | 2.3 | E-RV150 | 132M4 | |
| | 140 | 675 | 10 | 7660 | 1.8 | | |
| | 93.3 | 990 | 15 | 8770 | 1.3 | | |
| | 70 | 1291 | 20 | 9650 | 1 | | |
| | 56 | 1576 | 25 | 10400 | 0.8 | | |
| 186.7 | 698 | 7.5 | 6960 | 1.7 | E-RV150 | 132M4 | |
| | 140 | 921 | 10 | 7660 | 1.3 | | |
| | 93.3 | 1351 | 15 | 8770 | 0.9 | | |
| | 70 | 1760 | 20 | 9650 | 0.7 | | |

N1=1400
N1=2800
N1=900

E-V 性能参数 PERFORMANCE PARAMETER

| M2n [Kw] | i | P1n [Kw] | n2 [1/min] | Fr2 [N] | Fr1 [N] | |
|-------------|-----|-------------|---------------|------------|------------|--------|
| 13 | 7.5 | 0.58 | 373.3 | 542 | 125 | E-V030 |
| | 13 | 10 | 0.45 | 280 | 597 | 140 |
| | 13 | 15 | 0.31 | 186.7 | 683 | 140 |
| | 12 | 20 | 0.23 | 140 | 752 | 146 |
| | 15 | 25 | 0.25 | 112 | 810 | 210 |
| | 15 | 30 | 0.21 | 93.3 | 861 | 210 |
| | 14 | 40 | 0.16 | 70 | 948 | 127 |
| | 12 | 50 | 0.12 | 56 | 1021 | 128 |
| | 12 | 60 | 0.1 | 46.7 | 1085 | 126 |
| | 11 | 80 | 0.08 | 35 | 1194 | 130 |
| | 27 | 7.5 | 1.2 | 373.3 | 1044 | 233 |
| | 30 | 10 | 1.0 | 280 | 1149 | 272 |
| | 31 | 15 | 0.72 | 186.7 | 1315 | 291 |
| | 29 | 20 | 0.52 | 140 | 1447 | 204 |
| 28 | 25 | 0.42 | 112 | 1559 | 236 | |
| | 34 | 30 | 0.44 | 93.3 | 1657 | 350 |
| | 31 | 40 | 0.32 | 70 | 1824 | 350 |
| | 30 | 50 | 0.26 | 56 | 1964 | 350 |
| | 27 | 60 | 0.21 | 46.7 | 2087 | 350 |
| | 25 | 80 | 0.16 | 35 | 2298 | 350 |
| | 22 | 100 | 0.12 | 28 | 2475 | 350 |
| | 52 | 7.5 | 2.3 | 373.3 | 1433 | 324 |
| | 53 | 10 | 1.8 | 280 | 1577 | 378 |
| | 57 | 15 | 1.3 | 186.7 | 1805 | 399 |
| | 53 | 20 | 0.95 | 140 | 1987 | 417 |
| | 51 | 25 | 0.75 | 112 | 2140 | 482 |
| | 65 | 30 | 0.82 | 93.3 | 2274 | 490 |
| | 59 | 40 | 0.59 | 70 | 2503 | 490 |
| | 53 | 50 | 0.45 | 56 | 2696 | 490 |
| | 50 | 60 | 0.37 | 46.7 | 2865 | 490 |
| | 45 | 80 | 0.27 | 35 | 3153 | 490 |
| | 40 | 100 | 0.21 | 28 | 3397 | 490 |
| 92 | 7.5 | 4.0 | 373.3 | 1873 | 395 | E-V063 |
| | 96 | 10 | 3.2 | 280 | 2061 | 463 |
| | 101 | 15 | 2.3 | 186.7 | 2359 | 492 |
| | 97 | 20 | 1.7 | 140 | 2597 | 538 |
| | 91 | 25 | 1.3 | 112 | 2797 | 593 |
| | 120 | 30 | 1.5 | 93.3 | 2973 | 700 |
| | 113 | 40 | 1.1 | 70 | 3272 | 700 |
| | 102 | 50 | 0.83 | 56 | 3524 | 700 |
| | 96 | 60 | 0.68 | 46.7 | 3745 | 700 |
| | 86 | 80 | 0.49 | 35 | 4122 | 700 |
| | 74 | 100 | 0.37 | 28 | 4440 | 700 |

N1=1400
N1=2800
N1=900

| M2n [Kw] | i | P1n [Kw] | n2 [1/min] | Fr2 [N] | Fr1 [N] | |
|-------------|-----|-------------|---------------|------------|------------|--------|
| 128 | 7.5 | 5.6 | 373.3 | 2210 | 560 | E-V075 |
| 141 | 10 | 4.7 | 280 | 2433 | 703 | |
| 150 | 15 | 3.4 | 186.7 | 2785 | 727 | |
| 160 | 20 | 2.8 | 140 | 3065 | 872 | |
| 147 | 25 | 2.1 | 112 | 3302 | 980 | |
| 170 | 30 | 2.1 | 93.3 | 3509 | 980 | |
| 166 | 40 | 1.6 | 70 | 3862 | 980 | |
| 149 | 50 | 1.2 | 56 | 4160 | 980 | |
| 143 | 60 | 1.0 | 46.7 | 4421 | 980 | |
| 130 | 80 | 0.72 | 35 | 4865 | 980 | |
| 123 | 100 | 0.58 | 28 | 5241 | 980 | |
| 207 | 7.5 | 8.9 | 373.3 | 2446 | 715 | E-V090 |
| 236 | 10 | 7.7 | 280 | 2692 | 900 | |
| 270 | 15 | 6.0 | 186.7 | 3081 | 1034 | |
| 258 | 20 | 4.4 | 140 | 3391 | 1120 | |
| 246 | 25 | 3.4 | 112 | 3653 | 1270 | |
| 311 | 30 | 3.7 | 93.3 | 3882 | 1270 | |
| 280 | 40 | 2.6 | 70 | 4273 | 1270 | |
| 263 | 50 | 2.0 | 56 | 4603 | 1270 | |
| 242 | 60 | 1.6 | 46.7 | 4891 | 1270 | |
| 229 | 80 | 1.2 | 35 | 5383 | 1270 | |
| 203 | 100 | 0.9 | 28 | 5799 | 1270 | |
| 386 | 7.5 | 16.6 | 373.3 | 3090 | 950 | E-V110 |
| 433 | 10 | 14.1 | 280 | 3401 | 1194 | |
| 482 | 15 | 10.7 | 186.7 | 3893 | 1337 | |
| 475 | 20 | 8.0 | 140 | 4285 | 1485 | |
| 499 | 25 | 6.8 | 112 | 4616 | 1700 | |
| 552 | 30 | 6.4 | 93.3 | 4905 | 1700 | |
| 519 | 40 | 4.7 | 70 | 5399 | 1700 | |
| 498 | 50 | 3.7 | 56 | 5816 | 1700 | |
| 472 | 60 | 3.0 | 46.7 | 6181 | 1700 | |
| 398 | 80 | 2.0 | 35 | 6803 | 1700 | |
| 382 | 100 | 1.6 | 28 | 7328 | 1700 | |
| 514 | 7.5 | 22.1 | 373.3 | 4042 | 1190 | E-V130 |
| 574 | 10 | 18.7 | 280 | 4449 | 1493 | |
| 669 | 15 | 14.7 | 186.7 | 5092 | 1725 | |
| 660 | 20 | 11 | 140 | 5605 | 1912 | |
| 660 | 25 | 9.0 | 112 | 6038 | 2100 | |
| 774 | 30 | 9.0 | 93.3 | 6416 | 2100 | |
| 727 | 40 | 6.5 | 70 | 7062 | 2100 | |
| 696 | 50 | 5.1 | 56 | 7607 | 2100 | |
| 638 | 60 | 4.0 | 46.7 | 8084 | 2100 | |
| 606 | 80 | 3.0 | 35 | 8897 | 2100 | |
| 525 | 100 | 2.2 | 28 | 9584 | 2100 | |

N1=1400

N1=2800

N1=900

| M2n [Kw] | i | P1n [Kw] | n2 [1/min] | Fr2 [N] | Fr1 [N] | |
|-------------|-----|-------------|---------------|------------|------------|--------|
| 18 | 7.5 | 0.41 | 186.7 | 683 | 150 | E-V030 |
| 18 | 10 | 0.32 | 140 | 752 | 169 | |
| 18 | 15 | 0.23 | 93.3 | 861 | 169 | |
| 18 | 20 | 0.18 | 70 | 948 | 190 | |
| 20 | 25 | 0.18 | 56 | 1021 | 210 | |
| 20 | 30 | 0.15 | 46.7 | 1085 | 210 | |
| 18 | 40 | 0.11 | 35 | 1194 | 210 | |
| 17 | 50 | 0.09 | 28 | 1286 | 210 | |
| 16 | 60 | 0.08 | 23.3 | 1367 | 210 | |
| 12 | 80 | 0.05 | 17.5 | 1504 | 210 | |
| 40 | 7.5 | 0.9 | 186.7 | 1315 | 294 | E-V040 |
| 40 | 10 | 0.69 | 140 | 1447 | 331 | |
| 39 | 15 | 0.48 | 93.3 | 1657 | 331 | |
| 39 | 20 | 0.37 | 70 | 1824 | 350 | |
| 38 | 25 | 0.3 | 56 | 1964 | 350 | |
| 44 | 30 | 0.31 | 46.7 | 2087 | 350 | |
| 41 | 40 | 0.23 | 35 | 2298 | 350 | |
| 37 | 50 | 0.18 | 28 | 2475 | 350 | |
| 35 | 60 | 0.15 | 23.3 | 2630 | 350 | |
| 33 | 80 | 0.12 | 17.5 | 2895 | 350 | |
| 29 | 100 | 0.09 | 14 | 3118 | 350 | |
| 71 | 7.5 | 1.6 | 186.7 | 1805 | 401 | E-V050 |
| 70 | 10 | 1.2 | 140 | 1987 | 490 | |
| 73 | 15 | 0.88 | 93.3 | 2274 | 490 | |
| 72 | 20 | 0.68 | 70 | 2503 | 490 | |
| 69 | 25 | 0.54 | 56 | 2696 | 490 | |
| 83 | 30 | 0.57 | 46.7 | 2865 | 490 | |
| 77 | 40 | 0.42 | 35 | 3153 | 490 | |
| 73 | 50 | 0.34 | 28 | 3397 | 490 | |
| 68 | 60 | 0.28 | 23.3 | 3610 | 490 | |
| 64 | 80 | 0.22 | 17.5 | 3973 | 490 | |
| 52 | 100 | 0.16 | 14 | 4280 | 490 | |
| 126 | 7.5 | 2.8 | 186.7 | 2359 | 500 | E-V063 |
| 129 | 10 | 2.2 | 140 | 2597 | 571 | |
| 134 | 15 | 1.6 | 93.3 | 2973 | 615 | |
| 131 | 20 | 1.2 | 70 | 3272 | 667 | |
| 131 | 25 | 1.0 | 56 | 3524 | 700 | |
| 164 | 30 | 1.1 | 46.7 | 3745 | 700 | |
| 143 | 40 | 0.76 | 35 | 4122 | 700 | |
| 133 | 50 | 0.6 | 28 | 4440 | 700 | |
| 130 | 60 | 0.51 | 23.3 | 4719 | 700 | |
| 119 | 80 | 0.39 | 17.5 | 5193 | 700 | |
| 118 | 100 | 0.34 | 14 | 5592 | 700 | |

N1=1400

N1=2800

N1=900

参数

| M2n [Kw] | I | P1n [Kw] | n2 [1/min] | Fr2 [N] | Fr1 [N] | |
|-------------|-----|-------------|---------------|------------|------------|--------|
| 185 | 7.5 | 4.1 | 186.7 | 2785 | 700 | E-V075 |
| 190 | 10 | 3.2 | 140 | 3065 | 830 | |
| 198 | 15 | 2.3 | 93.3 | 3509 | 851 | |
| 210 | 20 | 1.9 | 70 | 3862 | 980 | |
| 202 | 25 | 1.5 | 56 | 4160 | 980 | |
| 233 | 30 | 1.5 | 46.7 | 4421 | 980 | |
| 216 | 40 | 1.1 | 35 | 4865 | 980 | |
| 206 | 50 | 0.89 | 28 | 5241 | 980 | |
| 197 | 60 | 0.75 | 23.3 | 5569 | 980 | |
| 187 | 80 | 0.58 | 17.5 | 6130 | 980 | |
| 180 | 100 | 0.48 | 14 | 6603 | 980 | |
| 287 | 7.5 | 6.3 | 186.7 | 3081 | 900 | E-V090 |
| 306 | 10 | 5.1 | 140 | 3391 | 1082 | |
| 357 | 15 | 4.1 | 93.3 | 3882 | 1257 | |
| 351 | 20 | 3.1 | 70 | 4273 | 1270 | |
| 332 | 25 | 2.4 | 56 | 4603 | 1270 | |
| 415 | 30 | 2.6 | 46.7 | 4891 | 1270 | |
| 363 | 40 | 1.8 | 35 | 5383 | 1270 | |
| 339 | 50 | 1.4 | 28 | 5799 | 1270 | |
| 307 | 60 | 1.1 | 23.3 | 6163 | 1270 | |
| 285 | 80 | 0.83 | 17.5 | 6783 | 1270 | |
| 270 | 100 | 0.67 | 14 | 7306 | 1270 | |
| 546 | 7.5 | 12 | 186.7 | 3893 | 1200 | E-V110 |
| 588 | 10 | 9.8 | 140 | 4285 | 1463 | |
| 660 | 15 | 7.5 | 93.3 | 4905 | 1604 | |
| 649 | 20 | 5.6 | 70 | 5399 | 1700 | |
| 665 | 25 | 4.7 | 56 | 5816 | 1700 | |
| 727 | 30 | 4.5 | 46.7 | 6181 | 1700 | |
| 693 | 40 | 3.3 | 35 | 6803 | 1700 | |
| 656 | 50 | 2.6 | 28 | 7328 | 1700 | |
| 620 | 60 | 2.1 | 23.3 | 7787 | 1700 | |
| 512 | 80 | 1.4 | 17.5 | 8571 | 1700 | |
| 473 | 100 | 1.1 | 14 | 9232 | 1700 | |
| 741 | 7.5 | 16.1 | 186.7 | 5092 | 1500 | E-V130 |
| 820 | 10 | 13.5 | 140 | 5605 | 1845 | |
| 917 | 15 | 10.3 | 93.3 | 6416 | 2070 | |
| 905 | 20 | 7.8 | 70 | 7062 | 2100 | |
| 931 | 25 | 6.5 | 56 | 7607 | 2100 | |
| 1047 | 30 | 6.4 | 46.7 | 8084 | 2100 | |
| 1043 | 40 | 4.9 | 35 | 8897 | 2100 | |
| 972 | 50 | 3.8 | 28 | 9584 | 2100 | |
| 928 | 60 | 3.1 | 23.3 | 10185 | 2100 | |
| 853 | 80 | 2.3 | 17.5 | 11210 | 2100 | |
| 742 | 100 | 1.7 | 14 | 12076 | 2100 | |

N1=1400

N1=2800

N1=900

| M2n [Kw] | I | P1n [Kw] | n2 [1/min] | Fr2 [N] | Fr1 [N] | |
|-------------|-----|-------------|---------------|------------|------------|--------|
| 20 | 7.5 | 0.3 | 120 | 792 | 175 | E-V030 |
| 20 | 10 | 0.24 | 90 | 871 | 197 | |
| 20 | 15 | 0.17 | 60 | 997 | 197 | |
| 19 | 20 | 0.13 | 45 | 1098 | 210 | |
| 23 | 25 | 0.14 | 36 | 1183 | 210 | |
| 21 | 30 | 0.11 | 30 | 1257 | 210 | |
| 21 | 40 | 0.09 | 22.5 | 1383 | 210 | |
| 19 | 50 | 0.07 | 18 | 1490 | 210 | |
| 18 | 60 | 0.06 | 15 | 1583 | 210 | |
| 14 | 80 | 0.04 | 11.3 | 1743 | 210 | |
| 43 | 7.5 | 0.65 | 120 | 1524 | 319 | E-V040 |
| 44 | 10 | 0.5 | 90 | 1677 | 350 | |
| 45 | 15 | 0.36 | 60 | 1920 | 350 | |
| 44 | 20 | 0.28 | 45 | 2113 | 350 | |
| 44 | 25 | 0.23 | 36 | 2276 | 350 | |
| 48 | 30 | 0.23 | 30 | 2419 | 350 | |
| 44 | 40 | 0.17 | 22.5 | 2662 | 350 | |
| 43 | 50 | 0.14 | 18 | 2868 | 350 | |
| 38 | 60 | 0.11 | 15 | 3047 | 350 | |
| 37 | 80 | 0.09 | 11.3 | 3354 | 350 | |
| 33 | 100 | 0.07 | 9 | 3490 | 350 | |
| 81 | 7.5 | 1.2 | 120 | 2091 | 448 | E-V050 |
| 83 | 10 | 0.94 | 90 | 2302 | 490 | |
| 84 | 15 | 0.67 | 60 | 2635 | 490 | |
| 76 | 20 | 0.48 | 45 | 2900 | 490 | |
| 76 | 25 | 0.39 | 36 | 3124 | 490 | |
| 91 | 30 | 0.42 | 30 | 3320 | 490 | |
| 83 | 40 | 0.31 | 22.5 | 3654 | 490 | |
| 78 | 50 | 0.25 | 18 | 3936 | 490 | |
| 74 | 60 | 0.21 | 15 | 4183 | 490 | |
| 66 | 80 | 0.16 | 11.3 | 4604 | 490 | |
| 56 | 100 | 0.12 | 9 | 4840 | 490 | |
| 151 | 7.5 | 2.2 | 120 | 2734 | 580 | E-V063 |
| 152 | 10 | 1.7 | 90 | 3009 | .661 | |
| 153 | 15 | 1.2 | 60 | 3444 | 670 | |
| 149 | 20 | 0.91 | 45 | 3791 | 700 | |
| 135 | 25 | 0.69 | 36 | 4084 | 700 | |
| 176 | 30 | 0.79 | 30 | 4339 | 700 | |
| 160 | 40 | 0058 | 22.5 | 4776 | 700 | |
| 146 | 50 | 0.45 | 18 | 5145 | 700 | |
| 137 | 60 | 0.37 | 15 | 5467 | 700 | |
| 127 | 80 | 0.29 | 11.3 | 6018 | 700 | |
| 125 | 100 | 0.25 | 9 | 6270 | 700 | |

N1=1400

N1=2800

N1=900

| M2n [Kw] | I | P1n [Kw] | n2 [1/min] | Fr2 [N] | Fr1 [N] | |
|-------------|-----|-------------|---------------|------------|------------|--------|
| 212 | 7.5 | 3.1 | 120 | 3227 | 810 | E-V075 |
| 223 | 10 | 2.5 | 90 | 3551 | 975 | |
| 232 | 15 | 1.8 | 60 | 4065 | 980 | |
| 232 | 20 | 1.4 | 45 | 4474 | 980 | |
| 219 | 25 | 1.1 | 36 | 4820 | 980 | |
| 249 | 30 | 1.1 | 30 | 5122 | 980 | |
| 236 | 40 | 0.83 | 22.5 | 5637 | 980 | |
| 217 | 50 | 0.64 | 18 | 6073 | 980 | |
| 206 | 60 | 0.54 | 15 | 6453 | 980 | |
| 200 | 80 | 0.43 | 11.3 | 7103 | 980 | |
| 191 | 100 | 0.36 | 9 | 7380 | 980 | |
| 336 | 7.5 | 4.8 | 120 | 3570 | 1040 | E-V090 |
| 365 | 10 | 4.0 | 90 | 3929 | 1270 | |
| 410 | 15 | 3.0 | 60 | 4498 | 1270 | |
| 395 | 20 | 2.3 | 45 | 4951 | 1270 | |
| 372 | 25 | 1.8 | 36 | 5333 | 1270 | |
| 454 | 30 | 1.9 | 30 | 5667 | 1270 | |
| 422 | 40 | 1.4 | 22.5 | 6238 | 1270 | |
| 391 | 50 | 1.1 | 18 | 6719 | 1270 | |
| 350 | 60 | 0.86 | 15 | 7140 | 1270 | |
| 314 | 80 | 0.63 | 11.3 | 7859 | 1270 | |
| 281 | 100 | 0.49 | 9 | 8180 | 1270 | |
| 644 | 7.5 | 9.2 | 120 | 4511 | 1390 | E-V110 |
| 702 | 10 | 7.6 | 90 | 4965 | 1700 | |
| 749 | 15 | 5.6 | 60 | 5684 | 1700 | |
| 722 | 20 | 4.1 | 45 | 6256 | 1700 | |
| 752 | 25 | 3.5 | 36 | 6739 | 1700 | |
| 847 | 30 | 3.5 | 30 | 7161 | 1700 | |
| 785 | 40 | 2.5 | 22.5 | 7882 | 1700 | |
| 753 | 50 | 2.0 | 18 | 8491 | 1700 | |
| 693 | 60 | 1.6 | 15 | 9023 | 1700 | |
| 586 | 80 | 1.1 | 11.3 | 9931 | 1700 | |
| 526 | 100 | 0.84 | 9 | 10320 | 1700 | |
| 871 | 7.5 | 12.3 | 120 | 5901 | 1740 | E-V130 |
| 951 | 10 | 10.3 | 90 | 6494 | 2100 | |
| 1055 | 15 | 7.8 | 60 | 7434 | 2100 | |
| 1022 | 20 | 5.8 | 45 | 8182 | 2100 | |
| 1031 | 25 | 4.8 | 36 | 8814 | 2100 | |
| 1152 | 30 | 4.7 | 30 | 9366 | 2100 | |
| 1099 | 40 | 3.5 | 22.5 | 10309 | 2100 | |
| 1017 | 50 | 2.7 | 18 | 11105 | 2100 | |
| 923 | 60 | 2.1 | 15 | 11801 | 2100 | |
| 852 | 80 | 1.6 | 11.3 | 12989 | 2100 | |
| 751 | 100 | 1.2 | 9 | 13500 | 2100 | |

N1=1400
N1=2800
N1=900

| M2n [Kw] | I | P1n [Kw] | n2 [1/min] | Fr2 [N] | Fr1 [N] | |
|-------------|-----|-------------|---------------|------------|------------|--------|
| 24 | 7.5 | 0.21 | 66.7 | 963 | 210 | E-V030 |
| 24 | 10 | 0.16 | 50 | 1060 | 210 | |
| 24 | 15 | 0.12 | 33.3 | 1213 | 210 | |
| 23 | 20 | 0.09 | 25 | 1336 | 210 | |
| 29 | 25 | 0.1 | 20 | 1439 | 210 | |
| 26 | 30 | 0.08 | 16.7 | 1529 | 210 | |
| 24 | 40 | 0.06 | 12.5 | 1683 | 210 | |
| 22 | 50 | 0.05 | 10 | 1813 | 210 | |
| 20 | 60 | 0.04 | 8.3 | 1830 | 210 | |
| 17 | 80 | 0.03 | 6.3 | 1830 | 210 | |
| 53 | 7.5 | 0.45 | 66.7 | 1853 | 350 | E-V040 |
| 53 | 10 | 0.35 | 50 | 2040 | 350 | |
| 56 | 15 | 0.26 | 33.3 | 2335 | 350 | |
| 52 | 20 | 0.19 | 25 | 2570 | 350 | |
| 49 | 25 | 0.15 | 20 | 2769 | 350 | |
| 58 | 30 | 0.16 | 16.7 | 2942 | 350 | |
| 53 | 40 | 0.12 | 12.5 | 3238 | 350 | |
| 52 | 50 | 0.1 | 10 | 3488 | 350 | |
| 46 | 60 | 0.08 | 8.3 | 3490 | 350 | |
| 40 | 80 | 0.06 | 6.3 | 3490 | 350 | |
| 38 | 100 | 0.05 | 5 | 3490 | 350 | |
| 102 | 7.5 | 0.86 | 66.7 | 2544 | 490 | E-V050 |
| 104 | 10 | 0.67 | 50 | 2800 | 490 | |
| 102 | 15 | 0.47 | 33.3 | 3205 | 490 | |
| 92 | 20 | 0.33 | 25 | 3528 | 490 | |
| 94 | 25 | 0.28 | 20 | 3800 | 490 | |
| 106 | 30 | 0.29 | 16.7 | 4038 | 490 | |
| 99 | 40 | 0.22 | 12.5 | 4445 | 490 | |
| 89 | 50 | 0.17 | 10 | 4788 | 490 | |
| 82 | 60 | 0.14 | 8.3 | 4840 | 490 | |
| 75 | 80 | 0.11 | 6.3 | 4840 | 490 | |
| 69 | 100 | 0.09 | 5 | 4840 | 490 | |
| 180 | 7.5 | 1.5 | 66.7 | 3325 | 700 | E-V063 |
| 188 | 10 | 1.2 | 50 | 3660 | 700 | |
| 188 | 15 | 0.85 | 33.3 | 4190 | 700 | |
| 178 | 20 | 0.63 | 25 | 4611 | 700 | |
| 163 | 25 | 0.48 | 20 | 4967 | 700 | |
| 204 | 30 | 0.54 | 16.7 | 4967 | 700 | |
| 186 | 40 | 0.4 | 12.5 | 5279 | 700 | |
| 174 | 50 | 0.32 | 10 | 5810 | 700 | |
| 162 | 60 | 0.26 | 8.3 | 6259 | 700 | |
| 138 | 80 | 0.19 | 6.3 | 6270 | 700 | |
| 131 | 100 | 0.16 | 5 | 6270 | 700 | |

N1=500
N1=1400
N1=2800
N1=900

参数

| M2n [Kw] | i | P1n [Kw] | n2 [1/min] | Fr2 [N] | Fr1 [N] |  |
|-------------|-----|-------------|---------------|------------|------------|---|
| 253 | 7.5 | 2.1 | 66.7 | 3925 | 980 | E-V075 |
| 266 | 10 | 1.7 | 50 | 4320 | 980 | |
| 268 | 15 | 1.2 | 33.3 | 4945 | 980 | |
| 281 | 20 | 0.98 | 25 | 5443 | 980 | |
| 251 | 25 | 0.73 | 20 | 5863 | 980 | |
| 299 | 30 | 0.77 | 16.7 | 6231 | 980 | |
| 279 | 40 | 0.58 | 12.5 | 6858 | 980 | |
| 248 | 50 | 0.44 | 1 | 7380 | 980 | |
| 234 | 60 | 0.37 | 8.3 | 7380 | 980 | |
| 220 | 80 | 0.29 | 6.3 | 7380 | 980 | |
| 206 | 100 | 0.24 | 5 | 7380 | 980 | |
| 406 | 7.5 | 3.3 | 66.7 | 4343 | 1270 | E-V090 |
| 433 | 10 | 2.7 | 50 | 4780 | 1270 | |
| 488 | 15 | 2.1 | 33.3 | 5472 | 1270 | |
| 477 | 20 | 1.6 | 25 | 6022 | 1270 | |
| 430 | 25 | 1.2 | 20 | 6487 | 1270 | |
| 568 | 30 | 1.4 | 16.7 | 6894 | 1270 | |
| 486 | 40 | 0.95 | 12.5 | 7588 | 1270 | |
| 451 | 50 | 0.75 | 10 | 8174 | 1270 | |
| 407 | 60 | 0.59 | 8.3 | 8180 | 1270 | |
| 368 | 80 | 0.45 | 6.3 | 8180 | 1270 | |
| 328 | 100 | 0.35 | 5 | 8180 | 1270 | |
| 788 | 7.5 | 6.4 | 66.7 | 5488 | 1700 | E-V110 |
| 844 | 10 | 5.2 | 50 | 6040 | 1700 | |
| 906 | 15 | 3.9 | 33.3 | 6914 | 1700 | |
| 856 | 20 | 2.8 | 25 | 7610 | 1700 | |
| 894 | 25 | 2.4 | 20 | 8198 | 1700 | |
| 988 | 30 | 2.4 | 16.7 | 8711 | 1700 | |
| 909 | 40 | 1.7 | 12.5 | 9588 | 1700 | |
| 882 | 50 | 1.4 | 10 | 10320 | 1700 | |
| 810 | 60 | 1.1 | 8.3 | 10320 | 1700 | |
| 668 | 80 | 0.76 | 6.3 | 10320 | 1700 | |
| 609 | 100 | 0.59 | 5 | 10320 | 1700 | |
| 1071 | 7.5 | 8.6 | 66.7 | 7178 | 2100 | E-V130 |
| 1153 | 10 | 7.1 | 50 | 7900 | 2100 | |
| 1293 | 15 | 5.5 | 33.3 | 9043 | 2100 | |
| 1222 | 20 | 4.0 | 25 | 9953 | 2100 | |
| 1192 | 25 | 3.2 | 20 | 10722 | 2100 | |
| 1378 | 30 | 3.3 | 16.7 | 11394 | 2100 | |
| 1284 | 40 | 2.4 | 12.5 | 12540 | 2100 | |
| 1216 | 50 | 1.9 | 10 | 13500 | 2100 | |
| 1105 | 60 | 1.5 | 8.3 | 13500 | 2100 | |
| 967 | 80 | 1.1 | 6.3 | 13500 | 2100 | |
| 877 | 100 | 0.85 | 5 | 13500 | 2100 | |

N1=500

N1=1400

N1=2800

N1=900

E-V-E-RV 性能参数 PERFORMANCE PARAMETER

| M2n [Kw] | i | P1n [Kw] | n2 [1/min] | Fr2 [N] | Fr1 [N] |  |
|-------------|------|-------------|---------------|------------|------------|---|
| 73 | 300 | 0.08 | 4.7 | 3490 | 210 | E-V030/040 |
| 67 | 400 | 0.06 | 3.5 | 3490 | 210 | |
| 59 | 500 | 0.04 | 2.8 | 3490 | 210 | |
| 63 | 600 | 0.04 | 2.3 | 3490 | 210 | |
| 68 | 750 | 0.04 | 1.9 | 3490 | 210 | |
| 59 | 900 | 0.03 | 1.6 | 3490 | 210 | |
| 48 | 1200 | 0.02 | 1.2 | 3490 | 210 | |
| 57 | 1500 | 0.02 | 0.9 | 3490 | 210 | |
| 60 | 1800 | 0.02 | 0.8 | 3490 | 210 | |
| 36 | 2400 | 0.01 | 0.58 | 3490 | 210 | |
| 45 | 3200 | 0.01 | 0.4 | 3490 | 210 | |
| 33 | 4000 | 0.01 | 0.4 | 3490 | 210 | |
| 29 | 5000 | 0.01 | 0.28 | 3490 | 210 | |
| 140 | 300 | 0.15 | 4.4 | 4840 | 210 | E-V030/050 |
| 115 | 400 | 0.1 | 3.5 | 4840 | 210 | |
| 120 | 500 | 0.09 | 2.8 | 4840 | 210 | |
| 130 | 600 | 0.08 | 2.3 | 4840 | 210 | |
| 123 | 750 | 0.07 | 1.9 | 4840 | 210 | |
| 118 | 900 | 0.06 | 1.6 | 4840 | 210 | |
| 96 | 1200 | 0.04 | 1.2 | 4840 | 210 | |
| 111 | 1500 | 0.04 | 0.93 | 4840 | 210 | |
| 122 | 1800 | 0.04 | 0.78 | 4840 | 210 | |
| 110 | 2400 | 0.06 | 0.6 | 4840 | 210 | |
| 80 | 3000 | 0.02 | 0.5 | 4840 | 210 | |
| 82 | 4000 | 0.02 | 0.35 | 4840 | 210 | |
| 82 | 4800 | 0.02 | 0.29 | 4840 | 210 | |
| 234 | 300 | 0.24 | 4.7 | 6270 | 210 | E-V030/063 |
| 228 | 400 | 0.19 | 3.5 | 6270 | 210 | |
| 210 | 500 | 0.15 | 2.8 | 6270 | 210 | |
| 216 | 600 | 0.13 | 2.3 | 6270 | 210 | |
| 199 | 750 | 0.11 | 1.9 | 6270 | 210 | |
| 188 | 900 | 0.09 | 1.6 | 6270 | 210 | |
| 197 | 1200 | 0.08 | 1.2 | 6270 | 210 | |
| 173 | 1500 | 0.06 | 0.93 | 6270 | 210 | |
| 159 | 1800 | 0.05 | 0.78 | 6270 | 210 | |
| 189 | 2400 | 0.05 | 0.58 | 6270 | 210 | |
| 171 | 3000 | 0.04 | 0.47 | 6270 | 210 | |
| 147 | 4000 | 0.03 | 0.35 | 6270 | 210 | |
| 109 | 5000 | 0.02 | 0.28 | 6270 | 210 | |
| 373 | 300 | 0.36 | 4.7 | 7380 | 350 | E-V040/075 |
| 346 | 400 | 0.27 | 3.5 | 7380 | 350 | |
| 315 | 500 | 0.21 | 2.8 | 7380 | 350 | |
| 355 | 600 | 0.19 | 2.3 | 7380 | 350 | |
| 330 | 750 | 0.16 | 1.9 | 7380 | 350 | |
| 326 | 900 | 0.14 | 1.6 | 7380 | 350 | |

N1=1400

N1=2800

N1=900



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| M2n [Kw] | i | P1n [Kw] | n2 [1/min] | Fr2 [N] | Fr1 [N] | |
|-------------|------|-------------|---------------|------------|------------|------------|
| 315 | 1200 | 0.11 | 1.2 | 7380 | 350 | E-V040/075 |
| 339 | 1500 | 0.1 | 0.93 | 7380 | 350 | |
| 331 | 1800 | 0.09 | 0.78 | 7380 | 350 | |
| 311 | 2400 | 0.07 | 0.58 | 7380 | 350 | |
| 254 | 3000 | 0.05 | 0.47 | 7380 | 350 | |
| 240 | 4000 | 0.04 | 0.35 | 7380 | 350 | |
| 205 | 5000 | 0.03 | 0.28 | 7380 | 350 | |
| 614 | 300 | 0.56 | 4.7 | 8180 | 350 | E-V040/090 |
| 587 | 400 | 0.43 | 3.5 | 8180 | 350 | |
| 545 | 500 | 0.34 | 2.8 | 8180 | 350 | |
| 585 | 600 | 0.3 | 2.3 | 8180 | 350 | |
| 509 | 750 | 0.23 | 1.9 | 8180 | 350 | |
| 465 | 900 | 0.19 | 1.6 | 8180 | 350 | |
| 514 | 1200 | 0.17 | 1.2 | 8180 | 350 | |
| 503 | 1500 | 0.14 | 0.93 | 8180 | 350 | |
| 431 | 1800 | 0.11 | 0.78 | 8180 | 350 | |
| 543 | 2400 | 0.11 | 0.58 | 8180 | 350 | |
| 439 | 3000 | 0.08 | 0.47 | 8180 | 350 | |
| 460 | 4000 | 0.08 | 0.35 | 8180 | 350 | |
| 410 | 5000 | 0.06 | 0.28 | 8180 | 350 | |
| 1229 | 300 | 1.1 | 4.7 | 10320 | 490 | E-V050/110 |
| 1164 | 400 | 0.79 | 3.5 | 10320 | 490 | |
| 1248 | 500 | 0.61 | 2.8 | 10320 | 490 | |
| 1096 | 600 | 0.55 | 2.3 | 10320 | 490 | |
| 1108 | 750 | 0.49 | 1.9 | 10320 | 490 | |
| 1078 | 900 | 0.43 | 1.6 | 10320 | 490 | |
| 962 | 1200 | 0.31 | 1.2 | 10320 | 490 | |
| 1109 | 1500 | 0.3 | 0.93 | 10320 | 490 | |
| 1051 | 1800 | 0.26 | 0.78 | 10320 | 490 | |
| 1001 | 2400 | 0.19 | 0.58 | 10320 | 490 | |
| 914 | 3000 | 0.15 | 0.47 | 10320 | 490 | |
| 819 | 4000 | 0.13 | 0.35 | 10320 | 490 | |
| 746 | 5000 | 0.1 | 0.28 | 10320 | 490 | |
| 1737 | 300 | 1.5 | 4.7 | 13500 | 700 | E-V063/130 |
| 1621 | 400 | 1.1 | 3.5 | 13500 | 700 | |
| 1496 | 500 | 0.86 | 2.8 | 13500 | 700 | |
| 1578 | 600 | 0.76 | 2.3 | 13500 | 700 | |
| 1559 | 750 | 0.66 | 1.9 | 13500 | 700 | |
| 1558 | 900 | 0.58 | 1.6 | 13500 | 700 | |
| 1403 | 1200 | 0.43 | 1.2 | 13500 | 700 | |
| 1522 | 1500 | 0.39 | 0.93 | 13500 | 700 | |
| 1500 | 1800 | 0.35 | 0.78 | 13500 | 700 | |
| 1358 | 2400 | 0.25 | 0.58 | 13500 | 700 | |
| 1300 | 3000 | 0.2 | 0.47 | 13500 | 700 | |
| 1146 | 4000 | 0.15 | 0.35 | 13500 | 700 | |
| 938 | 5000 | 0.11 | 0.28 | 13500 | 700 | |

N1=1400
N1=2800
N1=900

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i |  |  |
|-------------|---------------|-------------|-----------|---|---|
| 0.18 | 117-22.5 | 9-18 | 12-61.5 | E-UDL0.18-E-RV040 | 6324 |
| | 88-17 | 12-23 | 16-82 | | |
| | 58.7-11.3 | 17-32 | 24-123 | | |
| | 44-8.5 | 22-40 | 32-164 | | |
| | 35.2-6.8 | 27-47 | 40-205 | | |
| | 29.3-5.7 | 30-51 | 48-246 | | |
| | 22-4.3 | 37-62 | 64-328 | | |
| | 17.6-3.4 | 43-60 | 80-410 | | |
| | 22-4.3 | 38-63 | 64-328 | E-UDL0.18-E-RV050 | 6324 |
| | 17.6-3.4 | 44-73 | 80-410 | | |
| 0.37 | 66.7-13.3 | 36-65 | 21-105 | E-UDL0.37-E-RV050 | 7124 |
| | 50-10 | 46-82 | 28-140 | | |
| | 40-8 | 55-97 | 35-175 | | |
| | 33.3-6.7 | 61-107 | 42-210 | | |
| | 25-5 | 76-124 | 56-280 | | |
| | 20-4 | 89-120 | 70-350 | | |
| | 25-5 | 79-134 | 56-280 | E-UDL0.37-E-RV063 | 7124 |
| | 20-4 | 92-155 | 70-350 | | |
| | 16.7-3.3 | 104-173 | 84-420 | | |
| | 12.5-2.5 | 125-173 | 112-560 | | |
| 0.55 | 10-2 | 139-150 | 140-700 | | |
| | 133-26.7 | 26-49 | 10.5-52.5 | E-UDL0.55-E-RV063 | 8014 |
| | 100-20 | 34-63 | 14-70 | | |
| | 66.7-13.3 | 48-88 | 21-105 | | |
| | 50-10 | 62-112 | 28-140 | | |
| | 40-8 | 75-133 | 35-175 | | |
| | 33.3-6.7 | 81-146 | 42-210 | | |
| | 25-5 | 105-179 | 56-280 | | |
| | 20-4 | 123-207 | 70-350 | | |
| | 20-4 | 129-216 | 70-350 | E-UDL0.55-E-RV075 | 8014 |
| 0.75 | 16.7-3.3 | 146-242 | 84-420 | | |
| | 12.5-2.5 | 176-250 | 112-560 | | |
| | 12.5-2.5 | 189-309 | 112-560 | E-UDL0.55-E-RV090 | 8014 |
| | 10-2 | 218-350 | 140-700 | | |
| | 133-26.7 | 39-73 | 10.5-52.5 | E-UDL0.75-E-RV063 | 8024 |
| | 100-20 | 51-94 | 14-70 | | |
| | 66.7-13.3 | 72-132 | 21-105 | | |
| | 50-10 | 92-168 | 28-140 | | |
| | 40-8 | 112-199 | 35-175 | | |
| | 33.3-6.7 | 126-219 | 42-210 | | |
| 1.10 | 25-5 | 156-232 | 56-280 | | |
| | 20-4 | 185-310 | 70-350 | | |
| | 20-4 | 192-320 | 70-350 | E-UDL0.75-E-RV075 | 8024 |
| | 16.7-3.3 | 219-300 | 84-420 | | |
| | 16.7-3.3 | 230-389 | 84-420 | E-UDL0.75-E-RV090 | 8024 |
| | 12.5-2.5 | 265-428 | 112-560 | | |
| | 10-2 | 303-410 | 140-700 | | |
| | 12.5-2.5 | 302-503 | 112-560 | E-UDL0.75-E-RV110 | 8024 |
| | 10-2 | 348-575 | 140-700 | | |

| | |
|--|---------|
| | N1=1400 |
| | N1=2800 |
| | N1=900 |

UDL-NMRV 性能参数 PERFORMANCE PARAMETER

参数

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | | |
|-------------|---------------|-------------|-----------|-----------------|------|
| 1.1 | 133-26.7 | 59-111 | 10.5-52.5 | E-UD1.1-E-RV075 | 90S4 |
| | 100-20 | 77-144 | 14-70 | | |
| | 66.7-13.3 | 110-203 | 21-105 | | |
| | 50-10 | 142-258 | 28-140 | | |
| | 40-8 | 172-308 | 35-175 | | |
| | 33.3-6.7 | 195-340 | 42-210 | | |
| | 25-5 | 245-360 | 56-280 | | |
| | 100-20 | 78-146 | 14-70 | E-UD1.1-E-RV090 | 90S4 |
| | 66.7-13.3 | 113-208 | 21-105 | | |
| | 50-10 | 146-266 | 28-140 | | |
| 1.5 | 40-8 | 177-320 | 35-175 | | |
| | 33.3-6.7 | 202-356 | 42-210 | | |
| | 25-5 | 256-442 | 56-280 | | |
| | 20-4 | 304-517 | 70-350 | | |
| | 20-4 | 320-550 | 70-350 | E-UD1.1-E-RV110 | 90S4 |
| | 16.7-3.3 | 368-625 | 84-420 | | |
| | 12.5-2.5 | 455-754 | 112-560 | | |
| | 10-2 | 522-710 | 140-700 | | |
| | 16.7-3.3 | 373-623 | 84-420 | E-UD1.1-E-RV130 | 90S4 |
| | 12.5-2.5 | 460-749 | 112-560 | | |
| | 10-2 | 531-868 | 140-700 | | |
| 3.0 | 133-26.7 | 78-148 | 10.5-52.5 | E-UD1.5-E-RV075 | 90L4 |
| | 100-20 | 102-192 | 14-70 | | |
| | 66.7-13.3 | 147-270 | 21-105 | | |
| | 50-10 | 190-344 | 28-140 | | |
| | 40-8 | 229-330 | 35-175 | | |
| | 33.3-6.7 | 260-390 | 42-210 | | |
| | 25-5 | 327-360 | 56-280 | | |
| | 133-26.7 | 77-150 | 10.5-52.5 | E-UD1.5-E-RV090 | 90L4 |
| | 100-20 | 104-195 | 14-70 | | |
| | 66.7-13.3 | 150-277 | 21-105 | | |
| 4.0 | 50-10 | 194-355 | 28-140 | | |
| | 40-8 | 236-427 | 35-175 | | |
| | 33.3-6.7 | 270-474 | 42-210 | | |
| | 25-5 | 341-589 | 56-280 | | |
| | 20-4 | 406-560 | 70-350 | | |
| | 20-4 | 426-733 | 70-350 | E-UD1.5-E-RV110 | 90L4 |
| | 16.7-3.3 | 490-833 | 84-420 | | |
| | 16.7-3.3 | 498-831 | 84-420 | E-UD1.5-E-RV130 | 90L4 |
| | 12.5-2.5 | 614-999 | 112-560 | | |
| | 10-2 | 696-1100 | 140-700 | | |

| | |
|--|---------|
| | N1=1400 |
| | N1=2800 |
| | N1=900 |

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | | |
|-------------|---------------|-------------|-----------|-----------------|--------|
| 2.2 | 133-26.7 | 120-226 | 10.5-52.5 | E-UD2.2-E-RV110 | 100LA4 |
| | 100-20 | 157-294 | 14-70 | | |
| | 66.7-13.3 | 228-418 | 21-105 | | |
| | 50-10 | 298-549 | 28-140 | | |
| | 40-8 | 364-664 | 35-175 | | |
| | 33.3-6.7 | 413-717 | 42-210 | | |
| | 25-5 | 533-931 | 56-280 | | |
| | 25-5 | 542-932 | 56-280 | E-UD2.2-E-RV130 | 100LA4 |
| | 20-4 | 648-1097 | 70-350 | | |
| | 16.7-3.3 | 746-1246 | 84-420 | | |
| 3.0 | 125-2.5 | 921-1499 | 112-560 | | |
| | 10-2 | 1040-1690 | 140-700 | | |
| | 133-26.7 | 160-302 | 10.5-52.5 | E-UD3.0-E-RV110 | 100LB4 |
| | 100-20 | 210-392 | 14-70 | | |
| | 66.7-13.3 | 304-558 | 21-105 | | |
| | 50-10 | 398-732 | 28-140 | | |
| | 40-8 | 485-885 | 35-175 | | |
| | 33.3-6.7 | 547-956 | 42-210 | | |
| | 25-5 | 711-1030 | 56-280 | | |
| | 133-26.7 | 160-301 | 10.5-52.5 | E-UD3.0-E-RV130 | 100LB4 |
| 4.0 | 100-20 | 211-395 | 14-70 | | |
| | 66.7-13.3 | 307-563 | 21-105 | | |
| | 50-10 | 402-733 | 28-140 | | |
| | 40-8 | 490-885 | 35-175 | | |
| | 33.3-6.7 | 562-973 | 42-210 | | |
| | 25-5 | 720-1242 | 56-280 | | |
| | 20-4 | 864-1463 | 70-350 | | |
| | 133-26.7 | 213-402 | 10.5-52.5 | E-UD4.0-E-RV110 | 124M4 |
| | 100-20 | 279-523 | 14-70 | | |
| | 66.7-13.3 | 405-744 | 21-105 | | |
| 4.0 | 50-10 | 530-975 | 28-140 | | |
| | 40-8 | 647-1020 | 35-175 | | |
| | 133-26.7 | 214-401 | 10.5-52.5 | E-UD4.0-E-RV130 | 124M4 |
| | 100-20 | 281-527 | 14-70 | | |
| | 66.7-13.3 | 410-751 | 21-105 | | |
| | 50-10 | 536-978 | 28-140 | | |
| | 40-8 | 653-1180 | 35-175 | | |
| | 33.3-6.7 | 749-1298 | 42-210 | | |
| | 25-5 | 960-1650 | 56-280 | | |

| | |
|--|---------|
| | N1=1400 |
| | N1=2800 |
| | N1=900 |

UDL-NMRV 性能参数 PERFORMANCE PARAMETER

参数

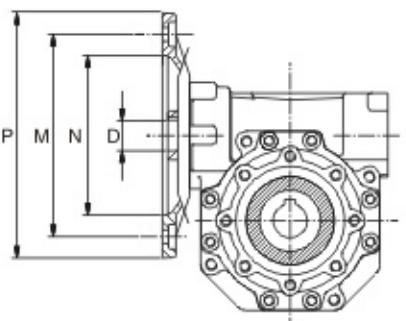
参数

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | | |
|-------------|---------------|-------------|-----------|-----------------|------|
| 1.1 | 133-26.7 | 59-111 | 10.5-52.5 | E-UD1.1-E-RV075 | 90S4 |
| | 100-20 | 77-144 | 14-70 | | |
| | 66.7-13.3 | 110-203 | 21-105 | | |
| | 50-10 | 142-258 | 28-140 | | |
| | 40-8 | 172-308 | 35-175 | | |
| | 33.3-6.7 | 195-340 | 42-210 | | |
| | 25-5 | 245-360 | 56-280 | | |
| | 100-20 | 78-146 | 14-70 | E-UD1.1-E-RV090 | 90S4 |
| | 66.7-13.3 | 113-208 | 21-105 | | |
| | 50-10 | 146-266 | 28-140 | | |
| 1.5 | 40-8 | 177-320 | 35-175 | | |
| | 33.3-6.7 | 202-356 | 42-210 | | |
| | 25-5 | 256-442 | 56-280 | | |
| | 20-4 | 304-517 | 70-350 | | |
| | 20-4 | 320-550 | 70-350 | E-UD1.1-E-RV110 | 90S4 |
| | 16.7-3.3 | 368-625 | 84-420 | | |
| | 12.5-2.5 | 455-754 | 112-560 | | |
| | 10-2 | 522-710 | 140-700 | | |
| | 16.7-3.3 | 373-623 | 84-420 | E-UD1.1-E-RV130 | 90S4 |
| | 12.5-2.5 | 460-749 | 112-560 | | |
| | 10-2 | 531-868 | 140-700 | | |
| 3.0 | 133-26.7 | 78-148 | 10.5-52.5 | E-UD1.5-E-RV075 | 90L4 |
| | 100-20 | 102-192 | 14-70 | | |
| | 66.7-13.3 | 147-270 | 21-105 | | |
| | 50-10 | 190-344 | 28-140 | | |
| | 40-8 | 229-330 | 35-175 | | |
| | 33.3-6.7 | 260-390 | 42-210 | | |
| | 25-5 | 327-360 | 56-280 | | |
| | 133-26.7 | 77-150 | 10.5-52.5 | E-UD1.5-E-RV090 | 90L4 |
| | 100-20 | 104-195 | 14-70 | | |
| | 66.7-13.3 | 150-277 | 21-105 | | |
| 4.0 | 50-10 | 194-355 | 28-140 | | |
| | 40-8 | 236-427 | 35-175 | | |
| | 33.3-6.7 | 270-474 | 42-210 | | |
| | 25-5 | 341-589 | 56-280 | | |
| | 20-4 | 406-560 | 70-350 | | |
| | 20-4 | 426-733 | 70-350 | E-UD1.5-E-RV110 | 90L4 |
| | 16.7-3.3 | 490-833 | 84-420 | | |
| | 16.7-3.3 | 498-831 | 84-420 | E-UD1.5-E-RV130 | 90L4 |
| | 12.5-2.5 | 614-999 | 112-560 | | |
| | 10-2 | 696-1100 | 140-700 | | |

| | |
|--|---------|
| | N1=1400 |
| | N1=2800 |
| | N1=900 |

| P1n [Kw] | n2 [1/min] | M2n [Nm] | i | | |
|-------------|---------------|-------------|-----------|-----------------|--------|
| 2.2 | 133-26.7 | 120-226 | 10.5-52.5 | E-UD2.2-E-RV110 | 100LA4 |
| | 100-20 | 157-294 | 14-70 | | |
| | 66.7-13.3 | 228-418 | 21-105 | | |
| | 50-10 | 298-549 | 28-140 | | |
| | 40-8 | 364-664 | 35-175 | | |
| | 33.3-6.7 | 413-717 | 42-210 | | |
| | 25-5 | 533-931 | 56-280 | | |
| | 25-5 | 542-932 | 56-280 | E-UD2.2-E-RV130 | 100LA4 |
| | 20-4 | 648-1097 | 70-350 | | |
| | 16.7-3.3 | 746-1246 | 84-420 | | |
| 3.0 | 125-2.5 | 921-1499 | 112-560 | | |
| | 10-2 | 1040-1690 | 140-700 | | |
| | 133-26.7 | 160-302 | 10.5-52.5 | E-UD3.0-E-RV110 | 100LB4 |
| | 100-20 | 210-392 | 14-70 | | |
| | 66.7-13.3 | 304-558 | 21-105 | | |
| | 50-10 | 398-732 | 28-140 | | |
| | 40-8 | 485-885 | 35-175 | | |
| | 33.3-6.7 | 547-956 | 42-210 | | |
| | 25-5 | 711-1030 | 56-280 | | |
| | 133-26.7 | 160-301 | 10.5-52.5 | E-UD3.0-E-RV130 | 100LB4 |
| 4.0 | 100-20 | 211-395 | 14-70 | | |
| | 66.7-13.3 | 307-563 | 21-105 | | |
| | 50-10 | 402-733 | 28-140 | | |
| | 40-8 | 490-885 | 35-175 | | |
| | 33.3-6.7 | 562-973 | 42-210 | | |
| | 25-5 | 720-1242 | 56-280 | | |
| | 20-4 | 864-1463 | 70-350 | | |
| | 133-26.7 | 213-402 | 10.5-52.5 | E-UD4.0-E-RV110 | 124M4 |
| | 100-20 | 279-523 | 14-70 | | |
| | 66.7-13.3 | 405-744 | 21-105 | | |
| 4.0 | 50-10 | 530-975 | 28-140 | | |
| | 40-8 | 647-1020 | 35-175 | | |
| | 133-26.7 | 214-401 | 10.5-52.5 | E-UD4.0-E-RV130 | 124M4 |
| | 100-20 | 281-527 | 14-70 | | |
| | 66.7-13.3 | 410-751 | 21-105 | | |
| | 50-10 | 536-978 | 28-140 | | |
| | 40-8 | 653-1180 | 35-175 | | |
| | 33.3-6.7 | 749-1298 | 42-210 | | |
| | 25-5 | 960-1650 | 56-280 | | |

| | |
|--|---------|
| | N1=1400 |
| | N1=2800 |
| | N1=900 |



*如果要特殊平键,请与技术部联系。
*If you want special key, please call our Technical Service

| E-VF | PAM IEC | N | M | P | D | | | | | | | | | |
|------|------------|-----|-----|-----|----|-----|-----|-----|-----|----|----|----|----|----|
| | | | | | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 |
| 030 | 63B5 | 95 | 115 | 140 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | - | - |
| | 63B14 | 60 | 75 | 90 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | - |
| | 56B5 | 80 | 100 | 120 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - | - | - |
| | 56B14 | 50 | 65 | 80 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 040 | 71B5 | 110 | 130 | 160 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - | - | - |
| | 71B14 | 70 | 85 | 105 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| | 63B5 | 95 | 115 | 140 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - |
| | 63B14 | 60 | 75 | 90 | - | - | - | - | - | - | 9 | 9 | 9 | 9 |
| 050 | 56B5 | 80 | 100 | 120 | - | - | - | - | - | - | 11 | 11 | 11 | 11 |
| | 80B5 | 130 | 165 | 200 | 19 | 19 | 19 | 19 | 19 | 19 | - | - | - | - |
| | 80B14 | 80 | 100 | 120 | - | 19 | 19 | 19 | 19 | 19 | 19 | 19 | - | - |
| | 71B5 | 110 | 130 | 160 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - |
| 063 | 71B14 | 70 | 85 | 105 | - | - | - | - | - | - | 14 | 14 | 14 | 14 |
| | 63B5 | 95 | 115 | 140 | - | - | - | - | - | - | 11 | 11 | 11 | 11 |
| | 90B5 | 130 | 165 | 200 | - | 24 | 24 | 24 | 24 | 24 | - | - | - | - |
| | 90B14 | 95 | 115 | 140 | - | - | - | - | - | - | - | - | - | - |
| 075 | 80B5 | 130 | 165 | 200 | - | 19 | 19 | 19 | 19 | 19 | 19 | 19 | - | - |
| | 80B14 | 80 | 100 | 120 | - | - | - | - | - | - | 14 | 14 | 14 | 14 |
| | 71B5 | 110 | 130 | 160 | - | - | - | - | - | - | 14 | 14 | 14 | 14 |
| | 71B14 | 70 | 85 | 105 | - | - | - | - | - | - | - | - | - | - |
| 090 | 100/112B5 | 180 | 215 | 250 | - | 28 | 28 | 28 | - | - | - | - | - | - |
| | 100/112B14 | 110 | 130 | 160 | - | 24 | 24 | 24 | 24 | 24 | 24 | - | - | - |
| | 90B5 | 130 | 165 | 200 | - | 24 | 24 | 24 | 24 | 24 | 24 | - | - | - |
| | 90B14 | 95 | 115 | 140 | - | - | - | - | - | - | - | - | - | - |
| 105 | 80B5 | 130 | 165 | 200 | - | - | - | - | - | - | 19 | 19 | 19 | 19 |
| | 80B14 | 80 | 100 | 120 | - | - | - | - | - | - | - | - | - | - |
| | 100/112B5 | 180 | 215 | 250 | - | 28 | 28 | 28 | 28 | 28 | 28 | 28 | - | - |
| | 100/112B14 | 110 | 130 | 160 | - | - | - | - | - | - | - | - | - | - |
| 110 | 90B5 | 130 | 165 | 200 | - | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | 80B5 | 130 | 165 | 200 | - | - | - | - | - | - | - | - | - | - |
| | 132B5 | 230 | 265 | 300 | - | 38* | 38* | 38* | 38* | - | - | - | - | - |
| | 90B5 | 130 | 165 | 200 | - | - | - | - | - | 24 | 24 | 24 | 24 | 24 |
| 130 | 80B5 | 130 | 165 | 200 | - | - | - | - | - | - | - | - | - | - |
| | 132B5 | 230 | 265 | 300 | - | 38* | 38* | 38* | 38* | - | - | - | - | - |
| | 100/112B5 | 180 | 215 | 250 | - | - | - | - | - | 28 | 28 | 28 | 28 | 28 |
| | 90B5 | 130 | 165 | 200 | - | - | - | - | - | - | - | - | 24 | 24 |
| 150 | 160B5 | 250 | 300 | 350 | - | 42 | 42 | 42 | 42 | - | - | - | - | - |
| | 132B5 | 230 | 265 | 300 | - | - | - | - | - | 38 | 38 | 38 | 38 | 38 |
| | 100/112B5 | 180 | 215 | 250 | - | - | - | - | - | - | 28 | 28 | 28 | 28 |

| E-VF | i | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 |
|------|----------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 030 | Z1 | 6 | 4 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | γ | 27°04' | 18°49' | 14°20' | 9°40' | 7°42' | 5°35' | 4°52' | 3°52' | 3°12' | 2°45' | 2°07' | |
| | Mx | 1.44 | 1.44 | 1.44 | 1.44 | 1.09 | 1.7 | 1.44 | 1.09 | 0.89 | 0.74 | 0.56 | |
| | $\eta d(1400)$ | 0.87 | 0.85 | 0.82 | 0.77 | 0.73 | 0.68 | 0.65 | 0.59 | 0.55 | 0.51 | 0.44 | |
| 040 | ηs | 0.72 | 0.67 | 0.63 | 0.55 | 0.5 | 0.43 | 0.39 | 0.35 | 0.31 | 0.27 | 0.23 | |
| | Z1 | 6 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | γ | 34°19' | 24°28' | 18°51' | 12°49' | 10°23' | 8°43' | 6°29' | 5°14' | 4°23' | 3°47' | 2°57' | 2°25' |
| | Mx | 2.06 | 2.06 | 2.06 | 2.06 | 1.57 | 1.27 | 2.06 | 1.57 | 1.27 | 1.06 | 0.81 | 0.65 |
| 050 | $\eta d(1400)$ | 0.89 | 0.87 | 0.85 | 0.82 | 0.78 | 0.75 | 0.7 | 0.65 | 0.62 | 0.58 | 0.52 | 0.47 |
| | ηs | 0.74 | 0.71 | 0.67 | 0.6 | 0.55 | 0.51 | 0.45 | 0.4 | 0.36 | 0.32 | 0.28 | 0.24 |
| 063 | Z1 | 6 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | γ | 33°37' | 23°54' | 18°23' | 12°30' | 10°06' | 8°29' | 6°19' | 5°06' | 4°16' | 3°40' | 2°52' | 2°21' |
| | Mx | 2.56 | 2.56 | 2.56 | 2.56 | 1.95 | 1.58 | 2.56 | 1.95 | 1.58 | 1.32 | 1 | 0.8 |
| | $\eta d(1400)$ | 0.89 | 0.88 | 0.86 | 0.82 | 0.79 | 0.76 | 0.72 | 0.67 | 0.63 | 0.59 | 0.53 | 0.49 |
| 075 | ηs | 0.74 | 0.7 | 0.66 | 0.59 | 0.55 | 0.51 | 0.44 | 0.39 | 0.35 | 0.32 | 0.27 | 0.23 |
| | Z1 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | γ | 26°17' | 20°20' | 13°52' | 11°18' | 9°32' | 7°02' | 5°42' | 4°48' | 4°08' | 3°14' | 2°40' | |
| | Mx | 3.94 | 3.94 | 3.94 | 3 | 2.42 | 3.94 | 3 | 2.42 | 2.03 | 1.54 | 1.24 | |
| | | | | | | | | | | | | | |

性能参数 Performance Parameter

E-VF

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 | Size | | Fr2 (N) | |
|------------|---------------|------------|------|------|-------------|------|------|------------|--|
| 0.06 | 280.0 | 1.8 | 10.1 | 5 | E-VF030 | 56A4 | 597 | 86-87 | |
| | 186.7 | 2.6 | 6.9 | 7.5 | | | 683 | | |
| | 140.0 | 3.4 | 5.4 | 10 | | | 752 | | |
| | 93.3 | 4.7 | 3.8 | 15 | | | 861 | | |
| | 70.0 | 6.0 | 3.0 | 20 | | | 948 | | |
| | 56.0 | 7.0 | 3.0 | 25 | | | 1021 | | |
| | 46.7 | 8.0 | 2.5 | 30 | | | 1085 | | |
| | 35.0 | 9.7 | 1.9 | 40 | | | 1194 | | |
| | 28.0 | 11 | 1.5 | 50 | | | 1286 | | |
| | 23.3 | 13 | 1.3 | 60 | | | 1367 | | |
| 0.09 | 17.5 | 14 | 0.9 | 80 | | | 1504 | | |
| | 15.0 | 18.0 | 0.9 | 60 | E-VF030 | 56B6 | 1583 | 86-87 | |
| | 18.0 | 18.1 | 2.3 | 50 | E-VF040 | 56B6 | 2868 | 88-89 | |
| | 15.0 | 21 | 1.9 | 60 | | | 3047 | | |
| | 11.3 | 24 | 1.4 | 80 | | | 3354 | | |
| | 9.0 | 27 | 1.2 | 100 | | | 3490 | | |
| | 4.7 | 57.4 | 1.3 | 300 | E-VF030/040 | 56A4 | 3490 | 108 | |
| | 3.5 | 70 | 0.9 | 400 | | | 3490 | | |
| | 2.8 | 96 | 0.6 | 500 | | | 3490 | | |
| | 2.3 | 104 | 0.7 | 600 | | | 3490 | | |
| 0.14 | 1.9 | 121 | 0.6 | 750 | | | 3490 | | |
| | 1.6 | 139 | 0.5 | 900 | | | 3490 | | |
| | 1.2 | 166 | 0.4 | 1200 | | | 3490 | | |
| | 0.9 | 196 | 0.4 | 1500 | | | 3490 | | |
| | 0.8 | 218 | 0.3 | 1800 | | | 3490 | | |
| | 0.58 | 261 | 0.2 | 2400 | | | 3490 | | |
| | 0.4 | 300 | 0.2 | 3200 | | | 3490 | | |
| | 0.4 | 279 | 0.1 | 4000 | | | 3490 | | |
| | 0.28 | 338 | 0.1 | 5000 | | | 3490 | | |
| | 1.6 | 141.3 | 1.0 | 900 | E-VF030/050 | 56A4 | 4840 | 108 | |
| 0.28 | 1.2 | 169 | 0.7 | 1200 | | | 4840 | | |
| | 0.93 | 199 | 0.7 | 1500 | | | 4840 | | |
| | 0.78 | 222 | 0.7 | 1800 | | | 4840 | | |
| | 0.6 | 266 | 0.5 | 2400 | | | 4840 | | |
| | 0.5 | 307 | 0.4 | 3000 | | | 4840 | | |
| | 0.35 | 288 | 0.3 | 4000 | | | 4840 | | |
| | 0.29 | 311 | 0.3 | 4800 | | | 4840 | | |
| | 0.9 | 203.5 | 1.1 | 1500 | E-VF030/063 | 56A4 | 6270 | 109 | |
| | 0.78 | 225 | 0.9 | 1800 | | | 6270 | | |
| | 0.58 | 276 | 0.8 | 2400 | | | 6270 | | |
| 0.47 | 0.47 | 319 | 0.7 | 3000 | | | 6270 | | |
| | 0.35 | 306 | 0.6 | 4000 | | | 6270 | | |
| | 0.28 | 360 | 0.4 | 5000 | | | 6270 | | |
| | 0.6 | 330.4 | 1.1 | 2400 | E-VF040/075 | 56A4 | 7380 | 109 | |
| | 0.47 | 377 | 0.8 | 3000 | | | 7380 | | |
| | 0.35 | 355 | 0.7 | 4000 | | | 7380 | | |
| | 0.28 | 419 | 0.5 | 5000 | | | 7380 | | |
| | 0.5 | 405.9 | 1.4 | 3000 | E-VF040/090 | 56A4 | 8180 | 109 | |
| | 0.35 | 365 | 1.3 | 4000 | | | 8180 | | |
| | 0.28 | 431 | 1.0 | 5000 | | | 8180 | | |

N1=1400
N1=2800
N1=900

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 | Size | | Fr2 (N) | |
|------------|---------------|------------|------|-----|---------|------|------|------------|--|
| 0.09 | 560.0 | 1.4 | 8.8 | 5 | E-VF030 | 56A2 | 474 | 86-87 | |
| | 373.3 | 2.0 | 6.5 | 7.5 | | | 542 | | |
| | 280.0 | 2.6 | 5.0 | 10 | | | 597 | | |
| | 186.7 | 3.7 | 3.5 | 15 | | | 683 | | |
| | 140.0 | 4.8 | 2.5 | 20 | | | 752 | | |
| | 112.0 | 5.7 | 2.8 | 25 | | | 810 | | |
| | 93.3 | 6.5 | 2.3 | 30 | | | 861 | | |
| | 70.0 | 8.1 | 1.7 | 40 | | | 948 | | |
| | 56.0 | 10 | 1.4 | 50 | | | 1021 | | |
| | 46.7 | 11 | 1.1 | 60 | | | 1085 | | |
| 0.14 | 35.0 | 13 | 0.9 | 80 | | | 1194 | | |
| | 280.0 | 2.7 | 6.7 | 5 | E-VF030 | 56B4 | 597 | 86-87 | |
| | 186.7 | 3.9 | 4.6 | 7.5 | | | 683 | | |
| | 140.0 | 5.0 | 3.6 | 10 | | | 752 | | |
| | 93.3 | 7.1 | 2.5 | 15 | | | 861 | | |
| | 70.0 | 9.0 | 2.0 | 20 | | | 948 | | |
| | 56.0 | 10 | 2.0 | 25 | | | 1021 | | |
| | 46.7 | 12 | 1.7 | 30 | | | 1085 | | |
| | 35.0 | 14 | 1.2 | 40 | | | 1194 | | |
| | 28.0 | 17 | 1.0 | 50 | | | 1286 | | |
| 0.28 | 23.3 | 19 | 0.9 | 60 | | | 1367 | | |
| | 180.0 | 4.1 | 4.9 | 5 | E-VF030 | 63A6 | 692 | 86-87 | |
| | 120.0 | 5.9 | 3.4 | 7.5 | | | 792 | | |
| | 90.0 | 7.6 | 2.6 | 10 | | | 871 | | |
| | 60.0 | 11 | 1.9 | 15 | | | 997 | | |
| | 45.0 | 13 | 1.5 | 20 | | | 1098 | | |
| | 36.0 | 15 | 1.5 | 25 | | | 1183 | | |
| | 30.0 | 17 | 1.2 | 30 | | | 1257 | | |
| | 22.5 | 21 | 1.0 | 40 | | | 1383 | | |
| | 18.0 | 24 | 0.7 | 50 | | | 1490 | | |
| 0.47 | 28.0 | 19.0 | 2.0 | 50 | E-VF040 | 56B4 | 2475 | 88-89 | |
| | 23.3 | 21 | 1.7 | 60 | | | 2630 | | |
| | 17.5 | 26 | 1.3 | 80 | | | 2895 | | |
| | 14.0 | 29 | 1.0 | 100 | | | 3118 | | |
| | 30.0 | 18.9 | 2.6 | 30 | E-VF040 | 63A6 | 2419 | 88-89 | |
| | 22.5 | 24 | 1.9 | 40 | | | 2662 | | |
| | 18.0 | 27 | 1.5 | 50 | | | 2868 | | |
| | 15.0 | 31 | 1.3 | 60 | | | 3047 | | |
| | 11.3 | 37 | 1.0 | 80 | | | 3354 | | |
| | 9.0 | 41 | 0.8 | 100 | | | 3490 | | |
| 0.58 | 12 | | | | | | | | |

E-VF

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|------|---------------|------|------------|--------------|
| 0.09 | 3.5 | 106.7 | 1 | 400 | E-VF030/050 | 56B4 | 4840 | 108 |
| | 2.8 | 123 | 1.0 | 500 | | | 4840 | |
| | 2.3 | 159 | 0.9 | 600 | | | 4840 | |
| | 1.9 | 185 | 0.8 | 750 | | | 4840 | |
| | 1.6 | 212 | 0.7 | 900 | | | 4840 | |
| | 3.8 | 99 | 1.7 | 240 | PC063+E-VF063 | 63A6 | 6270 | 104 |
| | 3.0 | 109 | 1.4 | 300 | | | 6270 | |
| | 1.6 | 200 | 1.0 | 900 | E-VF030/063 | 56B4 | 6270 | 109 |
| | 1.2 | 263 | 0.9 | 1200 | | | 6270 | |
| | 0.93 | 305 | 0.7 | 1500 | | | 6270 | |
| 0.12 | 0.93 | 360 | 1.1 | 1500 | E-VF040/075 | 56B4 | 7380 | 109 |
| | 0.78 | 404 | 1.0 | 1800 | | | 7380 | |
| | 0.58 | 496 | 0.7 | 2400 | | | 7380 | |
| | 0.47 | 609 | 0.9 | 3000 | E-VF040/090 | 56B4 | 8180 | 109 |
| | 0.35 | 548 | 0.8 | 4000 | | | 8180 | |
| | 280.0 | 3.6 | 5.1 | 5 | E-VF030 | 63A4 | 597 | 86-87 |
| | 186.7 | 5.2 | 3.4 | 7.5 | | | 683 | |
| | 140.0 | 6.7 | 2.7 | 10 | | | 752 | |
| | 93.3 | 9.5 | 1.9 | 15 | | | 861 | |
| | 70.0 | 12 | 1.5 | 20 | | | 948 | |
| 0.15 | 56.0 | 14 | 1.5 | 25 | | | 1021 | |
| | 46.7 | 16 | 1.3 | 30 | | | 1085 | |
| | 35.0 | 19 | 0.9 | 40 | | | 1194 | |
| | 28.0 | 23 | 0.8 | 50 | | | 1286 | |
| | 180.0 | 5.4 | 3.7 | 5 | E-VF030 | 63B6 | 692 | 86-87 |
| | 120.0 | 7.9 | 2.5 | 7.5 | | | 792 | |
| | 90.0 | 10 | 2.0 | 10 | | | 871 | |
| | 60.0 | 14 | 1.4 | 15 | | | 997 | |
| | 45.0 | 18 | 1.1 | 20 | | | 1098 | |
| | 36.0 | 20 | 1.1 | 25 | | | 1183 | |
| 0.18 | 30.0 | 23 | 0.9 | 30 | | | 1257 | |
| | 46.7 | 17 | 2.6 | 30 | E-VF040 | 63A4 | 2087 | 88-89 |
| | 35.0 | 21 | 1.9 | 40 | | | 2298 | |
| | 28.0 | 25 | 1.5 | 50 | | | 2475 | |
| | 23.3 | 28 | 1.3 | 60 | | | 2630 | |
| | 17.5 | 34 | 1.0 | 80 | | | 2895 | |
| | 14.0 | 38 | 0.8 | 100 | | | 3118 | |
| | 30.0 | 25 | 1.9 | 30 | E-VF040 | 63B6 | 2419 | 88-89 |
| | 22.5 | 32 | 1.4 | 40 | | | 2662 | |
| | 18.0 | 36 | 1.2 | 50 | | | 2868 | |
| 0.22 | 15.0 | 41 | 0.9 | 60 | | | 3047 | |
| | 18.7 | 42 | 1.2 | 75 | PC063+E-VF040 | 63A4 | 2833 | 103 |
| | 15.6 | 46 | 1.2 | 90 | | | 3011 | |
| | 11.7 | 57 | 0.9 | 120 | | | 3314 | |
| | 9.3 | 66 | 0.7 | 150 | | | 3490 | |
| | 7.8 | 74 | 0.6 | 180 | | | 3490 | |
| | 12.0 | 62 | 1.0 | 75 | PC063+E-VF040 | 63B6 | 3283 | 103 |
| | 10.0 | 68 | 1.1 | 90 | | | 3488 | |
| | 7.5 | 83 | 0.8 | 120 | | | 3490 | |

N1=1400
N1=2800
N1=900

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|------|---------------|------|------------|--------------|
| 0.12 | 23.3 | 29 | 2.3 | 60 | E-VF050 | 63A4 | 3610 | 90-91 |
| | 17.5 | 35 | 1.9 | 80 | | | 3973 | |
| | 14.0 | 40 | 1.4 | 100 | | | 4280 | |
| | 22.5 | 32 | 2.6 | 40 | E-VF050 | 63B6 | 3654 | 90-91 |
| | 18.0 | 38 | 2.0 | 50 | | | 3936 | |
| | 15.0 | 42 | 1.7 | 60 | | | 4183 | |
| | 11.3 | 50 | 1.4 | 80 | | | 4604 | |
| | 9.0 | 56 | 1.0 | 100 | | | 4840 | |
| | 9.3 | 68 | 1.3 | 150 | PC063+E-VF050 | 63A4 | 4840 | 103 |
| | 7.8 | 75 | 1.1 | 180 | | | 4840 | |
| 0.15 | 5.8 | 88 | 0.8 | 240 | | | 4840 | |
| | 4.7 | 98 | 0.7 | 300 | | | 4840 | |
| | 12.0 | 63 | 1.7 | 75 | PC063+E-VF050 | 63B6 | 4506 | 103 |
| | 10.0 | 70 | 2.1 | 90 | | | 4788 | |
| | 7.5 | 84 | 1.5 | 120 | | | 4840 | |
| | 6.0 | 97 | 1.2 | 150 | | | 4840 | |
| | 5.0 | 108 | 1.0 | 180 | | | 4840 | |
| | 3.8 | 125 | 0.7 | 240 | | | 4840 | |
| | 4.7 | 119 | 1.2 | 300 | E-VF030/050 | 63A4 | 4840 | 108 |
| | 3.5 | 142 | 0.9 | 400 | | | 4840 | |
| 0.18 | 2.8 | 164 | 0.7 | 500 | | | 4840 | |
| | 5.8 | 92 | 1.5 | 240 | PC063+E-VF063 | 63A4 | 6270 | 104 |
| | 4.7 | 103 | 1.2 | 300 | | | 6270 | |
| | 6.0 | 101 | 2.1 | 150 | PC063+E-VF063 | 63B6 | 6270 | 104 |
| | 5.0 | 112 | 1.8 | 180 | | | 6270 | |
| | 3.8 | 131 | 1.3 | 240 | | | 6270 | |
| | 3.0 | 145 | 1.0 | 300 | | | 6270 | |
| | 2.8 | 171 | 1.3 | 500 | E-VF030/063 | 63A4 | 6270 | 109 |
| | 2.3 | 208 | 1.1 | 600 | | | 6270 | |
| | 1.9 | 241 | 0.9 | 750 | | | 6270 | |
| 0.22 | 1.6 | 325 | 1.2 | 900 | E-VF040/075 | 63A4 | 7380 | 109 |
| | 1.2 | 399 | 0.9 | 1200 | | | 7380 | |
| | 0.78 | 547 | 0.9 | 1800 | E-VF040/090 | 63A4 | 8180 | 109 |
| | 0.58 | 695 | 0.9 | 2400 | | | 8180 | |
| | 0.47 | 884 | 1.1 | 3000 | E-VF050/105 | 63A4 | 10320 | 110 |
| | 0.35 | 784 | 1.0 | 4000 | | | 10320 | |
| | 0.28 | 928 | 0.76 | 5000 | | | 10320 | |
| | 0.47 | 884 | 1.2 | 3000 | E-VF050/110 | 63A4 | 10320 | 110 |
| | 0.35 | 784 | 1.0 | 4000 | | | 10320 | |
| | 0.28 | 928 | 0.80 | 5000 | | | 10320 | |
| 0.25 | 180.0 | 6.8 | 3.0 | 5 | E-VF030 | 63C6 | 692 | 86-87 |
| | 120.0 | 10 | 2.0 | 7.5 | | | 792 | |
| | 90.0 | 13 | 1.6 | 10 | | | 871 | |
| | 60.0 | 18 | | | | | | |

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|-----|---------------|------|------------|-------|
| 0.15 | 60.0 | 19 | 2.4 | 15 | E-VF040 | 63C6 | 1920 | 88-89 |
| | 45.0 | 24 | 1.8 | 20 | | | 2113 | |
| | 36.0 | 29 | 1.5 | 25 | | | 2276 | |
| | 30.0 | 32 | 1.6 | 30 | | | 2419 | |
| | 22.5 | 39 | 1.1 | 40 | | | 2662 | |
| | 18.0 | 45 | 0.9 | 50 | | | 2868 | |
| | 18.0 | 47 | 1.6 | 50 | VF050 | 63C6 | 3936 | 90-91 |
| | 15.0 | 53 | 1.4 | 60 | | | 4183 | |
| | 11.3 | 62 | 1.1 | 80 | | | 4604 | |
| | 10.0 | 87 | 1.7 | 90 | PC063+E-VF050 | 63C6 | 4788 | 103 |
| 0.18 | 7.5 | 105 | 1.2 | 120 | | | 4840 | |
| | 6.0 | 127 | 1.7 | 150 | PC063+E-VF063 | 63C6 | 6270 | 104 |
| | 5.0 | 140 | 1.4 | 180 | | | 6270 | |
| | 560.0 | 2.7 | 4.4 | 5 | E-VF030 | 63A2 | 474 | 86-87 |
| | 373.3 | 4.0 | 3.2 | 7.5 | | | 542 | |
| | 280.0 | 5.2 | 2.5 | 10 | | | 597 | |
| | 186.7 | 7.5 | 1.7 | 15 | | | 683 | |
| | 140.0 | 10 | 1.3 | 20 | | | 752 | |
| | 112.0 | 11 | 1.4 | 25 | | | 810 | |
| | 93.3 | 13 | 1.1 | 30 | | | 861 | |
| 0.22 | 70.0 | 16 | 0.9 | 40 | | | 948 | |
| | 280.0 | 5.3 | 3.4 | 5 | E-VF030 | 63B4 | 597 | 86-87 |
| | 186.7 | 7.8 | 2.3 | 7.5 | | | 683 | |
| | 140.0 | 10 | 1.8 | 10 | | | 752 | |
| | 93.3 | 14 | 1.3 | 15 | | | 861 | |
| | 70.0 | 18 | 1.0 | 20 | | | 948 | |
| | 56.0 | 21 | 1.0 | 25 | | | 1021 | |
| | 46.7 | 24 | 0.8 | 30 | | | 1085 | |
| | 93.3 | 14 | 2.4 | 30 | E-VF040 | 63A2 | 1657 | 88-89 |
| | 70.0 | 18 | 1.8 | 40 | | | 1824 | |
| 0.22 | 56.0 | 21 | 1.4 | 50 | | | 1964 | |
| | 70.0 | 19 | 2.0 | 20 | E-VF040 | 63B4 | 1824 | 88-89 |
| | 56.0 | 23 | 1.7 | 25 | | | 1964 | |
| | 46.7 | 26 | 1.7 | 30 | | | 2087 | |
| | 35.0 | 32 | 1.3 | 40 | | | 2298 | |
| | 28.0 | 38 | 1.0 | 50 | | | 2475 | |
| | 23.3 | 43 | 0.8 | 60 | | | 2630 | |
| | 45.0 | 29 | 1.5 | 20 | E-VF040 | 71A6 | 2113 | 88-89 |
| | 36.0 | 34 | 1.3 | 25 | | | 2276 | |
| | 30.0 | 38 | 1.3 | 30 | | | 2419 | |
| 0.22 | 22.5 | 47 | 1.0 | 40 | | | 2662 | |
| | 18.7 | 64 | 0.8 | 75 | PC063+E-VF040 | 63B4 | 2833 | 103 |
| | 15.6 | 70 | 0.8 | 90 | | | 3011 | |
| | 11.7 | 85 | 0.6 | 120 | | | 3314 | |
| | 46.7 | 24 | 2.1 | 60 | E-VF050 | 63A2 | 2865 | 90-91 |
| | 35.0 | 30 | 1.5 | 80 | | | 3153 | |
| | 28.0 | 34 | 1.2 | 100 | | | 3397 | |
| | 35.0 | 33 | 2.3 | 40 | E-VF050 | 63B4 | 3153 | 90-91 |
| | 28.0 | 39 | 1.9 | 50 | | | 3397 | |
| | 23.3 | 43 | 1.6 | 60 | | | 3610 | |
| 0.22 | 17.5 | 52 | 1.2 | 80 | | | 3973 | |
| | 14.0 | 60 | 0.9 | 100 | | | 4280 | |

N1=1400
N1=2800
N1=900

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|------|---------------|------|------------|-------|
| 0.18 | 18.0 | 56 | 1.4 | 50 | E-VF050 | 71A6 | 3936 | 90-91 |
| | 15.0 | 63 | 1.1 | 60 | | | 4183 | |
| | 11.3 | 75 | 0.9 | 80 | | | 4604 | |
| | 18.7 | 64 | 1.4 | 75 | PC063+E-VF050 | 63B4 | 3889 | 103 |
| | 15.6 | 71 | 1.5 | 90 | | | 4132 | |
| | 11.7 | 87 | 1.1 | 120 | | | 4548 | |
| | 9.3 | 101 | 0.9 | 150 | | | 4840 | |
| | 7.8 | 113 | 0.7 | 180 | | | 4840 | |
| | 5.8 | 133 | 0.6 | 240 | | | 4840 | |
| | 12.0 | 95 | 1.2 | 75 | PC071+E-VF050 | 71A6 | 4506 | 104 |
| 0.22 | 10.0 | 105 | 1.4 | 90 | | | 4788 | |
| | 7.5 | 126 | 1.0 | 120 | | | 4840 | |
| | 15.0 | 66 | 2.1 | 60 | E-VF063 | 71A6 | 5467 | 92-93 |
| | 11.3 | 79 | 1.6 | 80 | | | 6018 | |
| | 9.0 | 90 | 1.4 | 100 | | | 6270 | |
| | 9.3 | 103 | 1.7 | 150 | PC063+E-VF063 | 63B4 | 6270 | 104 |
| | 7.8 | 117 | 1.4 | 180 | | | 6270 | |
| | 5.8 | 139 | 1.0 | 240 | | | 6270 | |
| | 4.7 | 155 | 0.8 | 300 | | | 6270 | |
| | 12.0 | 97 | 2.2 | 75 | PC071+E-VF063 | 71A6 | 5889 | 104 |
| 0.22 | 10.0 | 107 | 2.4 | 90 | | | 6259 | |
| | 7.5 | 131 | 1.8 | 120 | | | 6270 | |
| | 6.0 | 152 | 1.4 | 150 | | | 6270 | |
| | 5.0 | 168 | 1.2 | 180 | | | 6270 | |
| | 3.8 | 197 | 0.9 | 240 | | | 6270 | |
| | 3.0 | 218 | 0.7 | 300 | | | 6270 | |
| | 3.5 | 222 | 1.0 | 400 | E-VF030/063 | 63B4 | 6270 | 109 |
| | 2.8 | 257 | 0.8 | 500 | | | 6270 | |
| | 5.0 | 179 | 1.7 | 180 | PC071+E-VF075 | 71A6 | 7380 | 105 |
| | 3.8 | 211 | 1.2 | 240 | | | 7380 | |
| 0.22 | 3.0 | 235 | 1.0 | 300 | | | 7380 | |
| | 2.3 | 362 | 1.1 | 600 | E-VF040/075 | 63B4 | 7380 | 109 |
| | 1.9 | 435 | 0.9 | 750 | | | 7380 | |
| | 1.6 | 487 | 0.8 | 900 | | | 7380 | |
| | 1.2 | 629 | 1.0 | 1200 | E-VF040/090 | 63B4 | 8180 | 109 |
| | 0.93 | 735 | 0.8 | 1500 | | | 8180 | |
| | 0.78 | 861 | 1.3 | 1800 | E-VF050/105 | 63B4 | 10320 | 110 |
| | 0.58 | 1113 | 0.9 | 2400 | | | 10320 | |
| | 0.78 | 861 | 1.5 | 1800 | E-VF050/110 | 63B4 | 10320 | 110 |
| | 0.58 | 1113 | 1.1 | 2400 | | | 10320 | |
| 0.22 | 280.0 | 6.5 | 2.8 | 5 | E-VF030 | 63C4 | 597 | 86-87 |
| | 186.7 | 10 | 1.9 | 7.5 | | | 683 | |
| | 140.0 | 12 | | | | | | |

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|-----|---------------|------|------------|--------------|
| 0.22 | 93.3 | 18 | 2.2 | 15 | E-VF040 | 63C4 | 1657 | 88-89 |
| | 70.0 | 23 | 1.7 | 20 | | | 1824 | |
| | 56.0 | 28 | 1.4 | 25 | | | 1964 | |
| | 46.7 | 32 | 1.4 | 30 | | | 2087 | |
| | 35.0 | 39 | 1.1 | 40 | | | 2298 | |
| | 28.0 | 47 | 0.8 | 50 | | | 2475 | |
| | 28.0 | 47 | 1.5 | 50 | E-VF050 | 63C4 | 3397 | 90-91 |
| | 23.3 | 53 | 1.3 | 60 | | | 3610 | |
| | 17.5 | 64 | 1.0 | 80 | | | 3973 | |
| | 18.7 | 78 | 1.2 | 75 | PC063+E-VF050 | 63C4 | 3889 | 103 |
| | 15.6 | 86 | 1.2 | 90 | | | 4132 | |
| | 11.7 | 106 | 0.9 | 120 | | | 4548 | |
| | 9.3 | 126 | 1.4 | 150 | PC063+E-VF063 | 63C4 | 6270 | 104 |
| | 7.8 | 143 | 1.1 | 180 | | | 6270 | |
| 0.25 | 4.7 | 210 | 1.1 | 300 | E-VF030/063 | 63C4 | 6270 | 109 |
| | 3.5 | 271 | 0.8 | 400 | | | 6270 | |
| | 560.0 | 3.8 | 3.2 | 5 | E-VF030 | 63B2 | 474 | 86-87 |
| | 373.3 | 5.6 | 2.3 | 7.5 | | | 542 | |
| | 280.0 | 7.2 | 1.8 | 10 | | | 597 | |
| | 186.7 | 10 | 1.3 | 15 | | | 683 | |
| | 140.0 | 13 | 0.9 | 20 | | | 752 | |
| | 112.0 | 16 | 1.0 | 25 | | | 810 | |
| | 93.3 | 18 | 0.8 | 30 | | | 861 | |
| | 280.0 | 7.6 | 4.5 | 5 | E-VF040 | 71A4 | 1149 | 88-89 |
| | 186.7 | 11 | 3.6 | 7.5 | | | 1315 | |
| | 140.0 | 14 | 2.8 | 10 | | | 1447 | |
| | 93.3 | 21 | 1.9 | 15 | | | 1657 | |
| | 70.0 | 27 | 1.5 | 20 | | | 1824 | |
| 0.30 | 56.0 | 32 | 1.2 | 25 | | | 1964 | |
| | 46.7 | 36 | 1.3 | 30 | | | 2087 | |
| | 35.0 | 44 | 0.9 | 40 | | | 2298 | |
| | 180.0 | 12 | 3.5 | 5 | E-VF040 | 71B6 | 1331 | 88-89 |
| | 120.0 | 17 | 2.6 | 7.5 | | | 1524 | |
| | 90.0 | 22 | 2.0 | 10 | | | 1677 | |
| | 60.0 | 31 | 1.4 | 15 | | | 1920 | |
| | 45.0 | 40 | 1.1 | 20 | | | 2113 | |
| | 36.0 | 48 | 0.9 | 25 | | | 2276 | |
| | 30.0 | 53 | 0.9 | 30 | | | 2419 | |
| | 35.0 | 42 | 1.1 | 80 | E-VF050 | 63B2 | 3153 | 90-91 |
| | 28.0 | 48 | 0.8 | 100 | | | 3397 | |
| | 70.0 | 27 | 2.7 | 20 | E-VF050 | 71A4 | 2503 | 90-91 |
| | 56.0 | 32 | 2.2 | 25 | | | 2696 | |
| | 46.7 | 37 | 2.3 | 30 | | | 2865 | |
| | 35.0 | 46 | 1.7 | 40 | | | 3153 | |
| | 28.0 | 54 | 1.4 | 50 | | | 3397 | |
| | 23.3 | 60 | 1.1 | 60 | | | 3610 | |
| | 17.5 | 72 | 0.9 | 80 | | | 3973 | |
| | 45.0 | 40 | 1.9 | 20 | E-VF050 | 71B6 | 2900 | 90-91 |
| | 36.0 | 48 | 1.5 | 25 | | | 3124 | |
| | 30.0 | 54 | 1.7 | 30 | | | 3320 | |
| | 22.5 | 67 | 1.2 | 40 | | | 3654 | |
| | 18.0 | 78 | 1.0 | 50 | | | 3936 | |
| | 15.0 | 88 | 0.8 | 60 | | | 4183 | |

N1=1400
N1=2800
N1=900

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|-----|---------------|------|------------|--------------|
| 0.25 | 18.7 | 88 | 1.0 | 75 | PC071+E-VF050 | 71A4 | 3889 | 104 |
| | 15.6 | 98 | 1.1 | 90 | | | 4132 | |
| | 11.7 | 121 | 0.8 | 120 | | | 4548 | |
| | 28.0 | 56 | 2.4 | 50 | E-VF063 | 71A4 | 4440 | 92-93 |
| | 23.3 | 63 | 2.0 | 60 | | | 4719 | |
| | 17.5 | 78 | 1.6 | 80 | | | 5193 | |
| | 14.0 | 87 | 1.4 | 100 | | | 5595 | |
| | 18.0 | 81 | 1.8 | 50 | E-VF063 | 71B6 | 5145 | 92-93 |
| | 15.0 | 92 | 1.5 | 60 | | | 5467 | |
| | 11.3 | 110 | 1.2 | 80 | | | 6018 | |
| | 9.0 | 125 | 1.0 | 100 | | | 6270 | |
| | 18.7 | 91 | 1.8 | 75 | PC071+E-VF063 | 71A4 | 5083 | 104 |
| | 15.6 | 100 | 2.0 | 90 | | | 5401 | |
| | 11.7 | 125 | 1.5 | 120 | | | 5945 | |
| 0.30 | 9.3 | 143 | 1.2 | 150 | | | 6270 | |
| | 7.8 | 163 | 1.0 | 180 | | | 6270 | |
| | 5.8 | 192 | 0.7 | 240 | | | 6270 | |
| | 4.7 | 215 | 0.6 | 300 | | | 6270 | |
| | 12.0 | 135 | 1.6 | 75 | PC071+E-VF063 | 71B6 | 5889 | 104 |
| | 10.0 | 148 | 1.8 | 90 | | | 6259 | |
| | 7.5 | 181 | 1.3 | 120 | | | 6270 | |
| | 6.0 | 211 | 1.0 | 150 | | | 6270 | |
| | 7.0 | 159 | 1.4 | 400 | E-VF030/063 | 63B2 | 6270 | 109 |
| | 5.6 | 185 | 1.2 | 500 | | | 6270 | |
| | 17.5 | 82 | 2.3 | 80 | E-VF075 | 71A4 | 6130 | 94-95 |
| | 14.0 | 94 | 1.9 | 100 | | | 6603 | |
| | 11.3 | 117 | 1.7 | 80 | E-VF075 | 71B6 | 7103 | 94-95 |
| | 9.0 | 133 | 1.4 | 100 | | | 7380 | |
| 0.35 | 9.3 | 151 | 1.7 | 150 | PC071+E-VF075 | 71A4 | 7380 | 105 |
| | 7.8 | 172 | 1.4 | 180 | | | 7380 | |
| | 5.8 | 201 | 1.1 | 240 | | | 7380 | |
| | 4.7 | 230 | 0.9 | 300 | | | 7380 | |
| | 12.0 | 139 | 2.4 | 75 | PC071+E-VF075 | 71B6 | 6952 | 105 |
| | 10.0 | 155 | 2.5 | 90 | | | 7380 | |
| | 7.5 | 191 | 1.9 | 120 | | | 7380 | |
| | 6.0 | 219 | 1.5 | 150 | | | 7380 | |
| | 5.0 | 248 | 1.2 | 180 | | | 7380 | |
| | 3.5 | 336 | 1.1 | 400 | E-VF040/075 | 71A4 | 7380 | 109 |
| | 2.8 | 384 | 0.8 | 500 | | | 7380 | |
| | 5.0 | 263 | 1.9 | 180 | PC071+E-VF090 | 71B6 | 8180 | 105 |
| | 3.8 | 318 | 1.4 | 240 | | | 8180 | |
| | 3.0 | 358 | 1.1 | 30 | | | | |

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|------|-------------|--|------------|-------------------|
| 0.25 | 1.2 | 943 | 1.3 | 1200 | E-VF050/110 | | 71A4 | 10320 110 |
| | 0.93 | 1064 | 1.2 | 1500 | | | | 10320 |
| | 0.78 | 1195 | 1.1 | 1800 | | | | 10320 |
| | 0.58 | 1624 | 1.0 | 2400 | E-VF063/130 | | 71A4 | 13500 110 |
| | 0.47 | 1935 | 0.8 | 3000 | | | | 13500 |
| | 0.35 | 2046 | 0.6 | 4000 | | | | 13500 |
| | 0.28 | 2430 | 0.5 | 5000 | | | | 13500 |
| | 0.8 | 1199 | 1.8 | 1800 | E-VF063/150 | | 71A4 | 18000 111 |
| | 0.6 | 1446 | 1.8 | 2400 | | | | 18000 |
| | 0.5 | 1713 | 1.4 | 3000 | | | | 18000 |
| 0.37 | 0.4 | 2026 | 0.9 | 4000 | | | | 18000 |
| | 0.3 | 2251 | 0.7 | 5000 | | | | 18000 |
| | 560.0 | 5.6 | 2.1 | 5 | E-VF030 | | 71A2 | 474 86-87 |
| | 373.3 | 8.2 | 1.6 | 7.5 | | | | 542 |
| | 280.0 | 11 | 1.2 | 10 | | | | 597 |
| | 186.7 | 15 | 0.8 | 15 | | | | 683 |
| | 560.0 | 5.7 | 4.2 | 5 | E-VF040 | | 71A2 | 912 88-89 |
| | 373.3 | 8.4 | 3.3 | 7.5 | | | | 1044 |
| | 280.0 | 11 | 2.6 | 10 | | | | 1149 |
| | 186.7 | 16 | 1.9 | 15 | | | | 1315 |
| 0.55 | 140.0 | 21 | 1.4 | 20 | | | | 1447 |
| | 112.0 | 25 | 1.1 | 25 | | | | 1559 |
| | 280.0 | 11 | 3.0 | 5 | E-VF040 | | 71B4 | 1149 88-89 |
| | 186.7 | 16 | 2.4 | 7.5 | | | | 1315 |
| | 140.0 | 21 | 1.9 | 10 | | | | 1447 |
| | 93.3 | 31 | 1.3 | 15 | | | | 1657 |
| | 70.0 | 39 | 1.0 | 20 | | | | 1824 |
| | 56.0 | 47 | 0.8 | 25 | | | | 1964 |
| | 46.7 | 53 | 0.8 | 30 | | | | 2087 |
| | 112.0 | 25 | 2.0 | 25 | E-VF050 | | 71A2 | 2140 90-91 |
| 0.75 | 93.3 | 29 | 2.2 | 30 | | | | 2274 |
| | 70.0 | 37 | 1.6 | 40 | | | | 2503 |
| | 56.0 | 44 | 1.2 | 50 | | | | 2696 |
| | 46.7 | 50 | 1.0 | 60 | | | | 2865 |
| | 35.0 | 62 | 0.7 | 80 | | | | 3153 |
| | 140.0 | 22 | 3.3 | 10 | E-VF050 | | 71B4 | 1987 90-91 |
| | 93.3 | 31 | 2.4 | 15 | | | | 2274 |
| | 70.0 | 40 | 1.8 | 20 | | | | 2503 |
| | 56.0 | 48 | 1.5 | 25 | | | | 2696 |
| | 46.7 | 55 | 1.5 | 30 | | | | 2865 |
| 0.90 | 35.0 | 68 | 1.1 | 40 | | | | 3153 |
| | 28.0 | 80 | 0.9 | 50 | | | | 3397 |
| | 23.3 | 89 | 0.8 | 60 | | | | 3610 |
| | 180.0 | 17 | 4.3 | 5 | E-VF050 | | 80A6 | 1827 90-91 |
| | 120.0 | 25 | 3.3 | 7.5 | | | | 2091 |
| | 90.0 | 33 | 2.5 | 10 | | | | 2302 |
| | 60.0 | 47 | 1.8 | 15 | | | | 2635 |
| | 45.0 | 60 | 1.3 | 20 | | | | 2900 |
| | 36.0 | 72 | 1.0 | 25 | | | | 3124 |
| | 30.0 | 80 | 1.1 | 30 | | | | 3320 |

N1=1400

N1=2800

N1=900

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|-----|---------------|--|------------|-------------------|
| 0.37 | 35.0 | 71 | 2.1 | 40 | E-VF063 | | 71B4 | 4122 92-93 |
| | 28.0 | 83 | 1.6 | 50 | | | | 4440 |
| | 23.3 | 94 | 1.4 | 60 | | | | 4719 |
| | 17.5 | 115 | 1.1 | 80 | | | | 5193 |
| | 14.0 | 129 | 0.9 | 100 | | | | 5595 |
| | 45.0 | 60 | 2.4 | 20 | E-VF063 | | 80A6 | 3791 92-93 |
| | 36.0 | 74 | 1.9 | 25 | | | | 4084 |
| | 30.0 | 82 | 2.1 | 30 | | | | 4339 |
| | 22.5 | 102 | 1.6 | 40 | | | | 4776 |
| | 18.0 | 120 | 1.2 | 50 | | | | 5145 |
| 0.55 | 15.0 | 137 | 1.0 | 60 | | | | 5467 |
| | 18.7 | 134 | 1.2 | 75 | PC071+E-VF063 | | 71B4 | 5083 104 |
| | 15.6 | 148 | 1.4 | 90 | | | | 5401 |
| | 11.7 | 185 | 1.0 | 120 | | | | 5945 |
| | 9.3 | 212 | 0.8 | 150 | | | | 6270 |
| | 9.3 | 181 | 1.3 | 300 | E-VF030/063 | | 71A2 | 6270 109 |
| | 7.0 | 236 | 1.0 | 400 | | | | 6270 |
| | 23.3 | 98 | 2.0 | 60 | E-VF075 | | 71B4 | 5569 94-95 |
| | 17.5 | 121 | 1.6 | 80 | | | | 6130 |
| | 14.0 | 139 | 1.3 | 100 | | | | 6603 |
| 0.75 | 18.0 | 126 | 1.8 | 50 | E-VF075 | | 80A6 | 6073 94-95 |
| | 15.0 | 144 | 1.5 | 60 | | | | 6453 |
| | 11.3 | 173 | 1.2 | 80 | | | | 7103 |
| | 9.0 | 196 | 1.0 | 100 | | | | 7380 |
| | 18.7 | 138 | 1.8 | 75 | PC071+E-VF075 | | 71B4 | 6000 105 |
| | 15.6 | 154 | 1.9 | 90 | | | | 6375 |
| | 11.7 | 191 | 1.5 | 120 | | | | 7017 |
| | 9.3 | 223 | 1.1 | 150 | | | | 7380 |
| | 7.8 | 254 | 0.9 | 180 | | | | 7380 |
| | 12.0 | 206 | 1.6 | 75 | PC080+E-VF075 | | 80A6 | 6952 105 |
| 0.90 | 10.0 | 230 | 1.7 | 90 | | | | 7380 |
| | 7.5 | 283 | 1.3 | 120 | | | | 7380 |
| | 6.0 | 324 | 1.0 | 150 | | | | 7380 |
| | 4.7 | 405 | 1.0 | 300 | E-VF040/075 | | 71B4 | 7380 109 |
| | 3.5 | 498 | 0.7 | 400 | | | | 7380 |
| | 11.3 | 185 | 1.7 | 80 | E-VF090 | | 80A6 | 7859 96-97 |
| | 9.0 | 212 | 1.3 | 100 | | | | 8180 |
| | 7.8 | 268 | 1.5 | 180 | PC071+E-VF090 | | 71B4 | 8180 105 |
| | 5.8 | 321 | 1.1 | 240 | | | | 8180 |
| | 4.7 | 371 | 0.9 | 300 | | | | 8180 |
| 0.95 | 6.0 | 347 | 1.6 | 150 | PC080+E-VF090 | | 80A6 | 8180 106 |

E-VF

E-VF

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|------|---------------|------|------------|--------------|
| 0.37 | 3.8 | 509 | 1.5 | 240 | PC080+E-VF105 | 80A6 | 10320 | 106 |
| | 3.0 | 577 | 1.2 | 300 | | | 10320 | |
| | 1.9 | 950 | 1.2 | 750 | E-VF050/105 | 71B4 | 10320 | 110 |
| | 1.6 | 1079 | 1.0 | 900 | | | 10320 | |
| | 1.2 | 1396 | 0.7 | 1200 | | | 10320 | |
| | 3.8 | 509 | 1.6 | 240 | PC080+E-VF110 | 80A6 | 10320 | 106 |
| | 3.0 | 577 | 1.3 | 300 | | | 10320 | |
| | 1.9 | 950 | 1.3 | 750 | E-VF050/110 | 71B4 | 10320 | 110 |
| | 1.6 | 1079 | 1.2 | 900 | | | 10320 | |
| | 1.2 | 1396 | 0.8 | 1200 | | | 10320 | |
| 0.55 | 0.93 | 1674 | 1.1 | 1500 | E-VF063/130 | 71B4 | 13500 | 110 |
| | 0.78 | 1887 | 0.9 | 1800 | | | 13500 | |
| | 0.8 | 1775 | 1.2 | 1800 | E-VF063/150 | 71B4 | 18000 | 111 |
| | 0.6 | 2141 | 1.2 | 2400 | | | 18000 | |
| | 0.5 | 2535 | 0.9 | 3000 | | | 18000 | |
| | 560.0 | 8.4 | 2.8 | 5 | E-VF040 | 71B2 | 912 | 88-89 |
| | 373.3 | 13 | 2.2 | 7.5 | | | 1044 | |
| | 280.0 | 17 | 1.8 | 10 | | | 1149 | |
| | 186.7 | 24 | 1.3 | 15 | | | 1315 | |
| | 140.0 | 31 | 0.9 | 20 | | | 1447 | |
| 0.75 | 112.0 | 37 | 0.8 | 25 | | | 1559 | |
| | 280.0 | 17 | 2.0 | 5 | E-VF040 | 71C4 | 1149 | 88-89 |
| | 186.7 | 24 | 1.6 | 7.5 | | | 1315 | |
| | 140.0 | 32 | 1.3 | 10 | | | 1447 | |
| | 93.3 | 46 | 0.9 | 15 | | | 1657 | |
| | 140.0 | 31 | 1.7 | 20 | E-VF050 | 71B2 | 1987 | 90-91 |
| | 112.0 | 38 | 1.4 | 25 | | | 2140 | |
| | 93.3 | 43 | 1.5 | 30 | | | 2274 | |
| | 70.0 | 55 | 1.1 | 40 | | | 2503 | |
| | 56.0 | 65 | 0.8 | 50 | | | 2696 | |
| 0.92 | 46.7 | 74 | 0.7 | 60 | | | 2865 | |
| | 280.0 | 17 | 3.7 | 5 | E-VF050 | 80A4 | 1577 | 90-91 |
| | 186.7 | 25 | 2.9 | 7.5 | | | 1805 | |
| | 140.0 | 32 | 2.2 | 10 | | | 1987 | |
| | 93.3 | 46 | 1.6 | 15 | | | 2274 | |
| | 70.0 | 59 | 1.2 | 20 | | | 2503 | |
| | 56.0 | 71 | 1.0 | 25 | | | 2696 | |
| | 46.7 | 81 | 1.0 | 30 | | | 2865 | |
| | 120.0 | 38 | 2.2 | 7.5 | E-VF050 | 80B6 | 2091 | 90-91 |
| | 90.0 | 49 | 1.7 | 10 | | | 2302 | |
| 0.11 | 60.0 | 69 | 1.2 | 15 | | | 2635 | |
| | 45.0 | 89 | 0.9 | 20 | | | 2900 | |
| | 70.0 | 56 | 1.9 | 40 | E-VF063 | 71B2 | 3272 | 92-93 |
| | 56.0 | 67 | 1.5 | 50 | | | 3524 | |
| | 46.7 | 77 | 1.2 | 60 | | | 3745 | |
| | 35.0 | 95 | 0.9 | 80 | | | 4122 | |
| | 28.0 | 109 | 0.7 | 100 | | | 4440 | |
| | N1=1400 | | | | | | | |
| | N1=2800 | | | | | | | |
| | N1=900 | | | | | | | |

| | |
|--|---------|
| | N1=1400 |
| | N1=2800 |
| | N1=900 |

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|-----|---------------|------|------------|--------------|
| 0.37 | 70.0 | 61 | 2.2 | 20 | E-VF063 | 80A4 | 3272 | 92-93 |
| | 56.0 | 73 | 1.8 | 25 | | | 3524 | |
| | 46.7 | 83 | 1.9 | 30 | | | 3745 | |
| | 35.0 | 105 | 1.4 | 40 | | | 4122 | |
| | 28.0 | 124 | 1.1 | 50 | | | 4440 | |
| | 23.3 | 140 | 0.9 | 60 | | | 4719 | |
| | 60.0 | 71 | 2.2 | 15 | E-VF063 | 80B6 | 3444 | 92-93 |
| | 45.0 | 90 | 1.6 | 20 | | | 3791 | |
| | 36.0 | 109 | 1.3 | 25 | | | 4084 | |
| | 30.0 | 123 | 1.4 | 30 | | | 4339 | |
| 0.55 | 22.5 | 152 | 1.1 | 40 | | | 4776 | |
| | 18.7 | 200 | 0.8 | 75 | PC071+E-VF063 | 71C4 | 5083 | 104 |
| | 15.6 | 219 | 0.9 | 90 | | | 5401 | |
| | 35.0 | 99 | 1.3 | 80 | E-VF075 | 71B2 | 4865 | 94-95 |
| | 28.0 | 114 | 1.0 | 100 | | | 5241 | |
| | 35.0 | 108 | 2.0 | 40 | E-VF075 | 80A4 | 4865 | 94-95 |
| | 28.0 | 129 | 1.6 | 50 | | | 5241 | |
| | 23.3 | 146 | 1.4 | 60 | | | 5569 | |
| | 17.5 | 180 | 1.1 | 80 | | | 6130 | |
| | 14.0 | 206 | 0.9 | 100 | | | 6603 | |
| 0.75 | 30.0 | 128 | 2.0 | 30 | E-VF075 | 80B6 | 5122 | 94-95 |
| | 22.5 | 159 | 1.5 | 40 | | | 5637 | |
| | 18.0 | 187 | 1.2 | 50 | | | 6073 | |
| | 15.0 | 214 | 1.0 | 60 | | | 6453 | |
| | 18.7 | 205 | 1.2 | 75 | PC071+E-VF075 | 71C4 | 6000 | 105 |
| | 15.6 | 230 | 1.3 | 90 | | | 6375 | |
| | 11.7 | 284 | 1.0 | 120 | | | 7017 | |
| | 18.7 | 205 | 1.2 | 75 | PC080+E-VF075 | 80A4 | 6000 | 105 |
| | 15.6 | 230 | 1.3 | 90 | | | 6375 | |
| | 11.7 | 284 | 1.0 | 120 | | | 7017 | |
| 0.92 | 9.3 | 332 | 0.8 | 150 | | | 7380 | |
| | 12.0 | 306 | 1.1 | 75 | PC080+E-VF075 | 80B6 | 6952 | 105 |
| | 10.0 | 341 | 1.1 | 90 | | | 7380 | |
| | 17.5 | 189 | 1.5 | 80 | E-VF090 | 80A4 | 6783 | 96-97 |
| | 14.0 | 221 | 1.2 | 100 | | | 7306 | |
| | 18.0 | 198 | 2.0 | 50 | E-VF090 | 80B6 | 6719 | 96-97 |
| | 15.0 | 224 | 1.6 | 60 | | | 7140 | |
| | 11.3 | 275 | 1.1 | 80 | | | 7859 | |
| | 9.0 | 315 | 0.9 | 100 | | | 8180 | |
| | 15.6 | 240 | 2.3 | 90 | PC080+E-VF090 | 80A4 | 7054 | 106 |
| 0.11 | 11.7 | 297 | 1.6 | 120 | | | 7764 | |
| | 9.3 | | | | | | | |

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|------|---------------|--|------------|------------|
| 0.55 | 9.3 | 306 | 2.0 | 300 | E-VF040/090 | | 71B2 | 8180 109 |
| | 7.0 | 403 | 1.5 | 400 | | | 8180 | |
| | 5.6 | 470 | 1.2 | 500 | | | 8180 | |
| | 17.5 | 201 | 2.4 | 80 | E-VF105 | | 80A4 | 8571 98-99 |
| | 14.0 | 236 | 1.9 | 100 | | | 9232 | |
| | 11.3 | 294 | 1.8 | 80 | E-VF105 | | 80B6 | 9931 98-99 |
| | 9.0 | 338 | 1.4 | 100 | | | 10320 | |
| | 7.8 | 425 | 1.7 | 180 | PC080+E-VF105 | | 80A4 | 10320 106 |
| | 5.8 | 513 | 1.2 | 240 | | | 10320 | |
| | 4.7 | 597 | 1.0 | 300 | | | 10320 | |
| | 7.5 | 462 | 2.2 | 120 | PC080+E-VF105 | | 80B6 | 10320 106 |
| | 6.0 | 552 | 1.8 | 150 | | | 10320 | |
| | 5.0 | 620 | 1.5 | 180 | | | 10320 | |
| | 3.8 | 756 | 1.0 | 240 | | | 10320 | |
| | 4.7 | 639 | 1.7 | 300 | E-VF050/105 | | 80A4 | 10320 110 |
| | 3.5 | 826 | 1.2 | 400 | | | 10320 | |
| | 2.8 | 984 | 1.0 | 500 | | | 10320 | |
| | 2.3 | 1181 | 0.9 | 600 | | | 10320 | |
| | 1.9 | 1411 | 0.8 | 750 | | | 10320 | |
| | 17.5 | 201 | 2.6 | 80 | E-VF110 | | 80A4 | 8571 100 |
| | 14.0 | 236 | 2.0 | 100 | | | 9232 | |
| | 11.3 | 294 | 1.9 | 80 | E-VF110 | | 80B6 | 9931 100 |
| | 9.0 | 338 | 1.5 | 100 | | | 10320 | |
| | 7.8 | 425 | 1.8 | 180 | PC080+E-VF110 | | 80A4 | 10320 106 |
| | 5.8 | 513 | 1.3 | 240 | | | 10320 | |
| | 4.7 | 597 | 1.0 | 300 | | | 10320 | |
| | 7.5 | 462 | 2.6 | 120 | PC080+E-VF110 | | 80B6 | 10320 106 |
| | 6.0 | 552 | 2.0 | 150 | | | 10320 | |
| | 5.0 | 620 | 1.6 | 180 | | | 10320 | |
| | 3.8 | 756 | 1.1 | 240 | | | 10320 | |
| | 4.7 | 639 | 2.0 | 300 | E-VF050/110 | | 80A4 | 10320 110 |
| | 3.5 | 826 | 1.4 | 400 | | | 10320 | |
| | 2.8 | 984 | 1.1 | 500 | | | 10320 | |
| | 2.3 | 1181 | 1.0 | 600 | | | 10320 | |
| | 1.9 | 1411 | 0.9 | 750 | | | 10320 | |
| | 3.8 | 756 | 1.6 | 240 | PC080+E-VF130 | | 80B6 | 13500 107 |
| | 3.0 | 858 | 1.3 | 300 | | | 13500 | |
| | 2.8 | 996 | 1.6 | 500 | E-VF063/130 | | 80A4 | 13500 110 |
| | 1.9 | 1471 | 1.2 | 750 | | | 13500 | |
| | 1.2 | 2132 | 0.8 | 1200 | | | 13500 | |
| | 0.8 | 2638 | 0.8 | 1800 | E-VF063/150 | | 80A4 | 18000 111 |
| | 0.6 | 3182 | 0.8 | 2400 | | | 18000 | |
| 0.75 | 560.0 | 12 | 2.1 | 5 | E-VF040 | | 80A2 | 912 88-89 |
| | 373.3 | 17 | 1.6 | 7.5 | | | 1044 | |
| | 280.0 | 23 | 1.3 | 10 | | | 1149 | |
| | 186.7 | 32 | 1.0 | 15 | | | 1315 | |

N1=1400

N1=2800

N1=900

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|-----|---------------|--|------------|------------|
| 0.75 | 560.0 | 12 | 3.9 | 5 | E-VF050 | | 80A2 | 1251 90-91 |
| | 373.3 | 17 | 3.0 | 7.5 | | | | 1433 |
| | 280.0 | 23 | 2.4 | 10 | | | | 1577 |
| | 186.7 | 33 | 1.7 | 15 | | | | 1805 |
| | 140.0 | 42 | 1.3 | 20 | | | | 1987 |
| | 112.0 | 51 | 1.0 | 25 | | | | 2140 |
| | 93.3 | 58 | 1.1 | 30 | | | | 2274 |
| | 280.0 | 23 | 2.7 | 5 | E-VF050 | | 80B4 | 1577 90-91 |
| | 186.7 | 34 | 2.1 | 7.5 | | | | 1805 |
| | 140.0 | 44 | 1.6 | 10 | | | | 1987 |
| | 93.3 | 63 | 1.2 | 15 | | | | 2274 |
| | 70.0 | 81 | 0.9 | 20 | | | | 2503 |
| | 140.0 | 43 | 2.3 | 20 | E-VF063 | | 80A2 | 2597 92-93 |
| | 112.0 | 52 | 1.8 | 25 | | | | 2797 |
| | 93.3 | 60 | 2.0 | 30 | | | | 2973 |
| | 70.0 | 77 | 1.4 | 40 | | | | 3272 |
| | 56.0 | 91 | 1.1 | 50 | | | | 3524 |
| | 46.7 | 104 | 0.9 | 60 | | | | 3745 |
| | 93.3 | 64 | 2.2 | 15 | E-VF063 | | 80B4 | 2973 92-93 |
| | 70.0 | 83 | 1.6 | 20 | | | | 3272 |
| | 56.0 | 100 | 1.3 | 25 | | | | 3524 |
| | 46.7 | 114 | 1.4 | 30 | | | | 3745 |
| | 35.0 | 143 | 1.0 | 40 | | | | 4122 |
| | 120.0 | 52 | 2.9 | 7.5 | E-VF063 | | 90S6 | 2734 92-93 |
| | 90.0 | 68 | 2.3 | 10 | | | | 3009 |
| | 60.0 | 97 | 1.6 | 15 | | | | 3444 |
| | 45.0 | 123 | 1.2 | 20 | | | | 3791 |
| | 36.0 | 149 | 0.9 | 25 | | | | 4084 |
| | 30.0 | 167 | 1.0 | 30 | | | | 4339 |
| | 46.7 | 109 | 1.3 | 60 | E-VF075 | | 80A2 | 4421 94-95 |
| | 28.0 | 156 | 0.8 | 100 | | | | 5241 |
| | 56.0 | 102 | 2.0 | 25 | E-VF075 | | 80B4 | 4160 94-95 |
| | 46.7 | 117 | 2.0 | 30 | | | | 4421 |
| | 35.0 | 147 | 1.5 | 40 | | | | 4865 |
| | 28.0 | 177 | 1.2 | 50 | | | | 5241 |
| | 23.3 | 200 | 1.0 | 60 | | | | 5569 |
| | 60.0 | 98 | 2.4 | 15 | E-VF075 | | 90S6 | 4065 94-95 |
| | 45.0 | 126 | 1.9 | 20 | | | | 4474 |
| | 36.0 | 153 | 1.4 | 25 | | | | 4820 |
| | 30.0 | 174 | 1.5 | 30 | | | | 5122 |
| | 22.5 | 216 | 1.1 | 40 | | | | 5637 |
| | 18.7 | 280 | 0.9 | 75 | PC080+E-VF075 | | 80B4 | 6000 105 |
| | 15.6 | 313 | 1.0 | 90 | | | | 6375 |
| | 35.0 | 141 | 1.6 | 80 | E-VF090 | | 80A2 | 5383 96-97 |
| | 28.0 | 166 | 1.2 | 100 | | | | |

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|-------|--------------------|--|------------|--|
| 0.75 | 30.0 | 179 | 2.6 | 30 | E-VF090 | | 5667 | |
| | 22.5 | 226 | 1.8 | 40 | | | 6238 | |
| | 18.0 | 271 | 1.4 | 50 | | | 6719 | |
| | 15.0 | 306 | 1.1 | 60 | | | 7140 | |
| | 15.6 | 327 | 1.7 | 90 | PC080+E-VF090 80B4 | | 7054 | |
| | 11.7 | 405 | 1.2 | 120 | | | 7764 | |
| | 9.3 | 483 | 0.9 | 150 | | | 8180 | |
| | 7.8 | 543 | 0.7 | 180 | | | 8180 | |
| | 7.0 | 549 | 1.1 | 400 | E-VF040/090 | | 8180 | |
| | 5.6 | 642 | 0.9 | 500 | | | 8180 | |
| | 17.5 | 274 | 1.8 | 80 | E-VF105 | | 8571 | |
| | 14.0 | 322 | 1.4 | 100 | | | 9232 | |
| | 15.0 | 325 | 1.9 | 60 | E-VF105 | | 9023 | |
| | 11.3 | 401 | 1.3 | 80 | | | 9931 | |
| | 9.0 | 462 | 1.1 | 100 | | | 10320 | |
| | 11.7 | 430 | 1.9 | 120 | PC080+E-VF105 80B4 | | 9811 | |
| | 9.3 | 506 | 1.6 | 150 | | | 10320 | |
| | 7.8 | 580 | 1.2 | 180 | | | 10320 | |
| | 5.8 | 700 | 0.9 | 240 | | | 10320 | |
| | 12.4 | 393 | 2.8 | 72.6 | PC090+E-VF105 90S6 | | 9614 | |
| | 9.3 | 508 | 2.0 | 96.8 | | | 10320 | |
| | 7.4 | 607 | 1.6 | 121 | | | 10320 | |
| | 6.2 | 682 | 1.3 | 145.2 | | | 10320 | |
| | 4.6 | 832 | 0.9 | 193.6 | | | 10320 | |
| | 9.3 | 446 | 2.5 | 300 | E-VF050/105 | | 10320 | |
| | 7.0 | 563 | 1.8 | 400 | | | 10320 | |
| | 5.6 | 687 | 1.5 | 500 | | | 10320 | |
| | 4.7 | 871 | 1.3 | 300 | E-VF050/105 | | 10320 | |
| | 3.5 | 1126 | 0.9 | 400 | | | 10320 | |
| | 17.5 | 274 | 1.9 | 80 | E-VF110 | | 8571 | |
| | 14.0 | 322 | 1.5 | 100 | | | 9232 | |
| | 15.0 | 325 | 2.1 | 60 | E-VF110 | | 9023 | |
| | 11.3 | 401 | 1.4 | 80 | | | 9931 | |
| | 9.0 | 462 | 1.1 | 100 | | | 10320 | |
| | 11.7 | 430 | 2.2 | 120 | PC080+E-VF110 80B4 | | 9811 | |
| | 9.3 | 506 | 1.7 | 150 | | | 10320 | |
| | 7.8 | 580 | 1.3 | 180 | | | 10320 | |
| | 5.8 | 700 | 0.9 | 240 | | | 10320 | |
| | 12.4 | 393 | 3.2 | 72.6 | PC090+E-VF110 90S6 | | 9614 | |
| | 9.3 | 508 | 2.3 | 96.8 | | | 10320 | |
| | 7.4 | 607 | 1.8 | 121 | | | 10320 | |
| | 6.2 | 682 | 1.5 | 145.2 | | | 10320 | |
| | 4.6 | 832 | 1.0 | 193.6 | | | 10320 | |
| | 9.3 | 446 | 2.8 | 300 | E-VF050/110 | | 10320 | |
| | 7.0 | 563 | 2.1 | 400 | | | 10320 | |
| | 5.6 | 687 | 1.6 | 500 | | | 10320 | |
| | 4.7 | 871 | 1.5 | 300 | E-VF050/110 | | 10320 | |
| | 3.5 | 1126 | 1.1 | 400 | | | 10320 | |

N1=1400

N1=2800

N1=900

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|-------|--------------------|--|------------|--|
| 0.75 | 11.3 | 407 | 2.1 | 80 | E-VF130 | | 12989 | |
| | 9.0 | 470 | 1.7 | 100 | | | 13500 | |
| | 5.8 | 712 | 1.4 | 240 | PC080+E-VF130 80B4 | | 13500 | |
| | 4.7 | 813 | 1.1 | 300 | | | 13500 | |
| | 12.4 | 399 | 4.4 | 72.6 | PC090+E-VF130 90S6 | | 12575 | |
| | 9.3 | 508 | 3.2 | 96.8 | | | 13500 | |
| | 7.4 | 607 | 2.6 | 121 | | | 13500 | |
| | 6.2 | 682 | 2.1 | 145.2 | | | 13500 | |
| | 4.6 | 832 | 1.5 | 193.6 | | | 13500 | |
| | 3.7 | 944 | 1.2 | 242 | | | 13500 | |
| | 2.8 | 1358 | 1.1 | 500 | E-VF063/130 | | 13500 | |
| | 2.3 | 1631 | 1.0 | 600 | | | 13500 | |
| 0.92 | 1.9 | 2005 | 0.9 | 750 | | | 13500 | |
| | 1.6 | 2283 | 0.8 | 900 | | | 13500 | |
| | 2.8 | 1291 | 1.8 | 500 | | | 18000 | |
| | 2.3 | 1529 | 1.7 | 600 | | | 18000 | |
| | 1.9 | 1783 | 1.3 | 750 | | | 18000 | |
| | 1.6 | 2215 | 0.9 | 900 | | | 18000 | |
| | 1.2 | 2680 | 1.0 | 1200 | | | 18000 | |
| | 280.0 | 28 | 2.2 | 5 | E-VF050 | | 1577 | |
| | 186.7 | 41 | 1.7 | 7.5 | | | 1805 | |
| | 140.0 | 54 | 1.3 | 10 | | | 1987 | |
| | 93.3 | 77 | 1.0 | 15 | | | 2274 | |
| 0.92 | 140.0 | 55 | 2.4 | 10 | E-VF063 | | 2597 | |
| | 93.3 | 78 | 1.8 | 15 | | | 2973 | |
| | 70.0 | 102 | 1.3 | 20 | | | 3272 | |
| | 56.0 | 122 | 1.1 | 25 | | | 3524 | |
| | 46.7 | 139 | 1.1 | 30 | | | 3745 | |
| | 35.0 | 176 | 0.8 | 40 | | | 4122 | |
| | 70.0 | 103 | 2.0 | 20 | E-VF075 | | 3862 | |
| | 56.0 | 126 | 1.6 | 25 | | | 4160 | |
| | 46.7 | 143 | 1.6 | 30 | | | 4421 | |
| | 35.0 | 181 | 1.2 | 40 | | | 4865 | |
| | 28.0 | 217 | 1.0 | 50 | | | 5241 | |
| | 23.3 | 245 | 0.8 | 60 | | | 5569 | |
| 0.92 | 18.7 | 344 | 0.7 | 75 | PC080+E-VF075 80C4 | | 6000 | |
| | 15.6 | 384 | 0.8 | 90 | | | 6375 | |
| | 28.0 | 226 | 1.5 | 50 | E-VF090 | | 5799 | |
| | 23.3 | 260 | 1.2 | 60 | | | 6163 | |
| | 17.5 | 316 | 0.9 | 80 | | | 6783 | |
| | 15.6 | 401 | 1.4 | 90 | PC080+E-VF090 80C4 | | 7054 | |
| | 11.7 | 497 | 1.0 | 120 | | | 7764 | |
| | 9.3 | 593 | 0.8 | 150 | | | 8180 | |
| | 17.5 | | | | | | | |



| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|------|----------------|------|------------|--------------|
| 0.92 | 4.7 | 1069 | 1.0 | 300 | E-VF050/105 | 80C4 | 10320 | 110 |
| | 3.5 | 1382 | 0.7 | 400 | | | 10320 | |
| | 17.5 | 336 | 1.5 | 80 | E-VF110 | 80C4 | 8571 | 100 |
| | 14.0 | 395 | 1.2 | 100 | | | 9232 | |
| | 18.7 | 367 | 2.5 | 75 | PC080+ E-VF110 | 80C4 | 8388 | 106 |
| | 11.7 | 527 | 1.8 | 120 | | | 9811 | |
| | 9.3 | 621 | 1.4 | 150 | | | 10320 | |
| | 7.8 | 712 | 1.1 | 180 | | | 10320 | |
| | 4.7 | 1069 | 1.2 | 300 | E-VF050/110 | 80C4 | 10320 | 110 |
| | 3.5 | 1382 | 0.9 | 400 | | | 10320 | |
| | 3.5 | 1398 | 1.2 | 400 | E-VF063/130 | 80C4 | 13500 | 110 |
| | 2.8 | 1665 | 0.9 | 500 | | | 13500 | |
| | 7.8 | 712 | 1.5 | 180 | PC080+ E-VF130 | 80C4 | 13500 | 107 |
| | 5.8 | 874 | 1.1 | 240 | | | 13500 | |
| | 4.7 | 998 | 0.9 | 300 | | | 13500 | |
| | 2.8 | 1583 | 1.5 | 500 | E-VF063/150 | 80C4 | 18000 | 111 |
| | 2.3 | 1875 | 1.4 | 600 | | | 18000 | |
| | 1.9 | 2188 | 1.1 | 750 | | | 18000 | |
| | 1.6 | 2717 | 0.8 | 900 | | | 18000 | |
| | 1.2 | 3288 | 0.8 | 1200 | | | 18000 | |
| 1.1 | 560.0 | 17 | 2.6 | 5 | E-VF050 | 80B2 | 1251 | 90-91 |
| | 373.3 | 25 | 2.1 | 7.5 | | | 1433 | |
| | 280.0 | 33 | 1.6 | 10 | | | 1577 | |
| | 186.7 | 48 | 1.2 | 15 | | | 1805 | |
| | 140.0 | 62 | 0.9 | 20 | | | 1987 | |
| | 186.7 | 48 | 2.1 | 15 | E-VF063 | 80B2 | 2359 | 92-93 |
| | 140.0 | 63 | 1.6 | 20 | | | 2597 | |
| | 112.0 | 77 | 1.2 | 25 | | | 2797 | |
| | 93.3 | 88 | 1.4 | 30 | | | 2973 | |
| | 70.0 | 113 | 1.0 | 40 | | | 3272 | |
| | 120.0 | 76 | 2.0 | 7.5 | E-VF063 | 90L6 | 2734 | 92-93 |
| | 90.0 | 99 | 1.5 | 10 | | | 3009 | |
| | 60.0 | 142 | 1.1 | 15 | | | 3444 | |
| | 45.0 | 180 | 0.8 | 20 | | | 3791 | |
| 1.1 | 186.7 | 50 | 2.6 | 7.5 | E-VF063 | 90S4 | 2359 | 92-93 |
| | 140.0 | 65 | 2.0 | 10 | | | 2597 | |
| | 93.3 | 93 | 1.5 | 15 | | | 2973 | |
| | 70.0 | 122 | 1.1 | 20 | | | 3272 | |
| | 56.0 | 146 | 0.9 | 25 | | | 3524 | |
| | 46.7 | 167 | 1.0 | 30 | | | 3745 | |
| | 112.0 | 78 | 1.9 | 25 | E-VF075 | 80B2 | 3302 | 94-95 |
| | 93.3 | 90 | 1.9 | 30 | | | 3509 | |
| | 70.0 | 116 | 1.4 | 40 | | | 3862 | |
| | 56.0 | 139 | 1.1 | 50 | | | 4160 | |
| | 46.7 | 160 | 0.9 | 60 | | | 4421 | |
| | 90.0 | 100 | 2.3 | 10 | E-VF075 | 90L6 | 3551 | 94-95 |
| | 60.0 | 144 | 1.6 | 15 | | | 4065 | |
| | 45.0 | 184 | 1.3 | 20 | | | 4474 | |
| | 36.0 | 225 | 1.0 | 25 | | | 4820 | |
| | 30.0 | 256 | 1.0 | 30 | | | 5122 | |

N1=1400

N1=2800

N1=900

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|-------|---------------|------|------------|--------------|
| 1.1 | 93.3 | 96 | 2.1 | 15 | E-VF075 | 90S4 | 3509 | 94-95 |
| | 70.0 | 123 | 1.7 | 20 | | | 3862 | |
| | 56.0 | 150 | 1.3 | 25 | | | 4160 | |
| | 46.7 | 171 | 1.3 | 30 | | | 4421 | |
| | 35.0 | 216 | 1.0 | 40 | | | 4865 | |
| | 35.0 | 207 | 1.1 | 80 | E-VF090 | 80B2 | 5383 | 96-97 |
| | 28.0 | 244 | 0.8 | 100 | | | 5799 | |
| | 36.0 | 231 | 1.6 | 25 | E-VF090 | 90L6 | 5333 | 96-97 |
| | 30.0 | 263 | 1.8 | 30 | | | 5667 | |
| | 22.5 | 331 | 1.2 | 40 | | | 6238 | |
| | 18.0 | 397 | 1.0 | 50 | | | 6719 | |
| | 15.0 | 448 | 0.8 | 60 | | | 7140 | |
| | 35.0 | 225 | 1.6 | 40 | E-VF090 | 90S4 | 5383 | 96-97 |
| | 28.0 | 270 | 1.3 | 50 | | | 5799 | |
| | 23.3 | 311 | 1.0 | 60 | | | 6163 | |
| 1.1 | 22.5 | 345 | 2.0 | 40 | E-VF105 | 90L6 | 7882 | 98-99 |
| | 18.0 | 414 | 1.6 | 50 | | | 8491 | |
| | 15.0 | 476 | 1.3 | 60 | | | 9023 | |
| | 11.3 | 588 | 0.9 | 80 | | | 9931 | |
| | 28.0 | 281 | 2.1 | 50 | E-VF105 | 90S4 | 7328 | 98-99 |
| | 23.3 | 324 | 1.7 | 60 | | | 7787 | |
| | 17.5 | 402 | 1.2 | 80 | | | 8571 | |
| | 14.0 | 473 | 1.0 | 100 | | | 9232 | |
| | 12.4 | 576 | 1.9 | 72.6 | PC090+E-VF105 | 90L6 | 9614 | 106 |
| | 9.3 | 746 | 1.4 | 96.8 | | | 10320 | |
| | 7.4 | 890 | 1.1 | 121 | | | 10320 | |
| | 6.2 | 1000 | 0.9 | 145.2 | | | 10320 | |
| | 19.3 | 392 | 2.2 | 72.6 | PC090+E-VF105 | 90S4 | 8298 | 106 |
| | 14.5 | 508 | 1.6 | 96.8 | | | 9133 | |
| | 11.6 | 599 | 1.3 | 121 | | | 9838 | |
| | 9.6 | 686 | 1.0 | 145.2 | | | 10320 | |
| | 7.2 | 828 | 0.8 | 193.6 | | | 10320 | |
| 1.1 | 9.3 | 654 | 1.7 | 300 | E-VF050/105 | 80B2 | 10320 | 110 |
| | 7.0 | 845 | 1.2 | 400 | | | 10320 | |
| | 5.6 | 1007 | 1.0 | 500 | | | 10320 | |
| | 22.5 | 345 | 2.3 | 40 | E-VF110 | 90L6 | 7882 | 100 |
| | 18.0 | 414 | 1.8 | 50 | | | 8491 | |
| | 15.0 | 476 | 1.4 | 60 | | | 9023 | |
| | 11.3 | 588 | 1.0 | 80 | | | 9931 | |
| | 28.0 | 281 | 2.3 | 50 | E-VF110 | 90S4 | 7328 | 100 |
| | 23.3 | 324 | 1.9 | 60 | | | 7787 | |
| | 17. | | | | | | | |



| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|-------|--------------------|--|------------|--------------|
| 1.1 | 19.3 | 392 | 2.5 | 72.6 | PC090+E-VF110 90S4 | | 8298 | 106 |
| | 14.5 | 508 | 1.8 | 96.8 | | | 9133 | |
| | 11.6 | 599 | 1.5 | 121 | | | 9838 | |
| | 9.6 | 686 | 1.1 | 145.2 | | | 10320 | |
| | 7.2 | 828 | 0.8 | 193.6 | | | 10320 | |
| | 9.3 | 654 | 1.9 | 300 | E-VF050/110 80B2 | | 10320 | 110 |
| | 7.0 | 845 | 1.4 | 400 | | | 10320 | |
| | 5.6 | 1007 | 1.1 | 500 | | | 10320 | |
| | 11.3 | 598 | 1.4 | 80 | E-VF130 90L6 | | 12989 | 101 |
| | 9.0 | 689 | 1.1 | 100 | | | 13500 | |
| | 17.5 | 408 | 2.1 | 80 | E-VF130 90S4 | | 11210 | 101 |
| | 14.0 | 480 | 1.5 | 100 | | | 12076 | |
| | 12.4 | 585 | 3.0 | 72.6 | PC090+E-VF130 90L6 | | 12575 | 107 |
| | 9.3 | 746 | 2.2 | 96.8 | | | 13500 | |
| | 7.4 | 890 | 1.7 | 121 | | | 13500 | |
| | 6.2 | 1000 | 1.4 | 145.2 | | | 13500 | |
| | 4.6 | 1220 | 1.0 | 193.6 | | | 13500 | |
| 1.5 | 19.3 | 398 | 3.5 | 72.6 | PC090+E-VF130 90S4 | | 10853 | 107 |
| | 14.5 | 508 | 2.6 | 96.8 | | | 11945 | |
| | 11.6 | 608 | 2.0 | 121 | | | 12868 | |
| | 9.6 | 686 | 1.6 | 145.2 | | | 13500 | |
| | 7.2 | 843 | 1.2 | 193.6 | | | 13500 | |
| | 5.6 | 962 | 0.9 | 242 | | | 13500 | |
| | 4.7 | 1312 | 1.3 | 300 | E-VF063/130 90S4 | | 13500 | 110 |
| | 3.5 | 1671 | 1.0 | 400 | | | 13500 | |
| | 2.8 | 1991 | 0.8 | 500 | | | 13500 | |
| | 9.3 | 753 | 3.1 | 150 | E-VF063/150 90S4 | | 18000 | 111 |
| | 7.0 | 966 | 2.4 | 200 | | | 18000 | |
| | 5.6 | 1175 | 1.7 | 250 | | | 18000 | |
| | 4.7 | 1364 | 1.7 | 300 | | | 18000 | |
| | 3.5 | 1619 | 1.6 | 400 | | | 18000 | |
| | 2.8 | 1893 | 1.2 | 500 | | | 18000 | |
| | 2.3 | 2242 | 1.2 | 600 | | | 18000 | |
| | 1.9 | 2616 | 0.9 | 750 | | | 18000 | |
| 1.5 | 560.0 | 23 | 1.9 | 5 | E-VF050 90S2 | | 1251 | 90-91 |
| | 373.3 | 35 | 1.5 | 7.5 | | | 1433 | |
| | 280.0 | 45 | 1.2 | 10 | | | 1577 | |
| | 186.7 | 65 | 0.9 | 15 | | | 1805 | |
| | 186.7 | 68 | 1.9 | 7.5 | E-VF063 90L4 | | 2359 | 92-93 |
| | 140.0 | 89 | 1.5 | 10 | | | 2597 | |
| | 93.3 | 127 | 1.1 | 15 | | | 2973 | |
| | 70.0 | 166 | 0.8 | 20 | | | 3272 | |
| | 373.3 | 35 | 2.7 | 7.5 | E-VF063 90S2 | | 1873 | 92-93 |
| | 280.0 | 46 | 2.1 | 10 | | | 2061 | |
| N1=1400 | 186.7 | 66 | 1.6 | 15 | | | 2359 | |
| | 140.0 | 86 | 1.2 | 20 | | | 2597 | |
| | 112.0 | 105 | 0.9 | 25 | | | 2797 | |
| | 93.3 | 120 | 1.0 | 30 | | | 2973 | |
| | 120.0 | 105 | 2.0 | 7.5 | E-VF075 100LA6 | | 3227 | 94-95 |
| | 90.0 | 137 | 1.7 | 10 | | | 3551 | |
| | 60.0 | 196 | 1.2 | 15 | | | 4065 | |

N1=1400

N1=2800

N1=900

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|------|--------------------|--|------------|--------------|
| 1.5 | 56.0 | 189 | 0.8 | 50 | E-VF075 90S2 | | 4160 | 94-95 |
| | 46.7 | 218 | 0.7 | 60 | | | 4421 | |
| | 140.0 | 90 | 2.2 | 10 | E-VF075 90L4 | | 3065 | 94-95 |
| | 93.3 | 130 | 1.5 | 15 | | | 3509 | |
| | 70.0 | 168 | 1.3 | 20 | | | 3862 | |
| | 56.0 | 205 | 1.0 | 25 | | | 4160 | |
| | 46.7 | 233 | 1.0 | 30 | | | 4421 | |
| | 280.0 | 46 | 3.1 | 10 | E-VF075 90S2 | | 2433 | 94-95 |
| | 186.7 | 67 | 2.2 | 15 | | | 2785 | |
| | 140.0 | 87 | 1.8 | 20 | | | 3065 | |
| | 112.0 | 106 | 1.4 | 25 | | | 3302 | |
| | 93.3 | 123 | 1.4 | 30 | | | 3509 | |
| | 70.0 | 158 | 1.0 | 40 | | | 3862 | |
| | 90.0 | 138 | 2.7 | 10 | E-VF090 100LA6 | | 3929 | 96-97 |
| | 60.0 | 201 | 2.1 | 15 | | | 4498 | |
| | 45.0 | 258 | 1.5 | 20 | | | 4951 | |
| | 36.0 | 314 | 1.2 | 25 | | | 5333 | |
| | 30.0 | 358 | 1.3 | 30 | | | 5667 | |
| 1.5 | 70.0 | 172 | 2.1 | 20 | E-VF090 90L4 | | 4273 | 96-97 |
| | 56.0 | 210 | 1.6 | 25 | | | 4603 | |
| | 46.7 | 239 | 1.7 | 30 | | | 4891 | |
| | 35.0 | 307 | 1.2 | 40 | | | 5383 | |
| | 28.0 | 368 | 0.9 | 50 | | | 5799 | |
| | 23.3 | 424 | 0.8 | 60 | | | 6163 | |
| | 56.0 | 194 | 1.4 | 50 | E-VF090 90S2 | | 4603 | 96-97 |
| | 46.7 | 227 | 1.1 | 60 | | | 4891 | |
| | 45.0 | 264 | 2.4 | 20 | E-VF105 100LA6 | | 6256 | 98-99 |
| | 36.0 | 322 | 2.0 | 25 | | | 6739 | |
| | 30.0 | 363 | 2.0 | 30 | | | 7161 | |
| | 22.5 | 471 | 1.5 | 40 | | | 7882 | |
| | 18.0 | 565 | 1.2 | 50 | | | 8491 | |
| | 15.0 | 649 | 1.0 | 60 | | | 9023 | |
| | 35.0 | 319 | 1.9 | 40 | E-VF105 90L4 | | 6803 | 98-99 |
| | 28.0 | 384 | 1.6 | 50 | | | 7328 | |
| | 23.3 | 442 | 1.3 | 60 | | | 7787 | |
| | 17.5 | 548 | 0.9 | 80 | | | 8571 | |
| N1=2800 | 46.7 | 236 | 1.8 | 60 | E-VF105 90S2 | | 6181 | 98-99 |
| | 35.0 | 299 | 1.3 | 80 | | | 6803 | |
| | 28.0 | 353 | 1.0 | 100 | | | 7328 | |
| | 19.3 | 535 | 1.6 | 72.6 | PC090+E-VF105 90L4 | | 8298 | 106 |
| | 14.5 | | | | | | | |

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------------------------|---------------|------------|------|-------|---------------|--|------------|--------------|
| E-VF 1.5 | 35.0 | 319 | 2.2 | 40 | E-VF110 | | 6803 | 100 |
| | 28.0 | 384 | 1.7 | 50 | | | 7328 | |
| | 23.3 | 442 | 1.4 | 60 | | | 7787 | |
| | 17.5 | 548 | 0.9 | 80 | | | 8571 | |
| | 46.7 | 236 | 2.0 | 60 | E-VF110 | | 6181 | 100 |
| | 35.0 | 299 | 1.3 | 80 | | | 6803 | |
| | 28.0 | 353 | 1.0 | 100 | | | 7328 | |
| | 19.3 | 535 | 1.9 | 72.6 | PC090+E-VF110 | | 8298 | 106 |
| | 14.5 | 693 | 1.3 | 96.8 | | | 9133 | |
| | 11.6 | 817 | 1.1 | 121 | | | 9838 | |
| | 9.6 | 936 | 0.8 | 145.2 | | | 10320 | |
| | 9.3 | 891 | 1.4 | 300 | E-VF050/110 | | 10320 | 110 |
| | 7.0 | 1153 | 1.0 | 400 | | | 10320 | |
| | 5.6 | 1373 | 0.8 | 500 | | | 10320 | |
| 1.8 | 22.5 | 478 | 2.3 | 40 | E-VF130 | | 10309 | 101 |
| | 18.0 | 573 | 1.8 | 50 | | | 11105 | |
| | 15.0 | 659 | 1.4 | 60 | | | 11801 | |
| | 11.3 | 815 | 1.1 | 80 | | | 12989 | |
| | 17.5 | 557 | 1.5 | 80 | E-VF130 | | 11210 | 101 |
| | 14.0 | 655 | 1.1 | 100 | | | 12076 | |
| | 19.3 | 542 | 2.6 | 72.6 | PC090+E-VF130 | | 10853 | 107 |
| | 14.5 | 693 | 1.9 | 96.8 | | | 11945 | |
| | 11.6 | 830 | 1.5 | 121 | | | 12868 | |
| | 9.6 | 936 | 1.1 | 145.2 | | | 13500 | |
| | 7.2 | 1149 | 0.8 | 193.6 | | | 13500 | |
| | 9.3 | 915 | 1.9 | 300 | E-VF063/130 | | 13500 | 110 |
| | 7.0 | 1166 | 1.4 | 400 | | | 13500 | |
| | 5.6 | 1389 | 1.1 | 500 | | | 13500 | |
| 1.8 | 4.7 | 1789 | 1.0 | 300 | E-VF063/130 | | 13500 | 110 |
| | 3.5 | 2279 | 0.7 | 400 | | | 13500 | |
| | 9.3 | 1026 | 2.3 | 150 | E-VF063/150 | | 18000 | 111 |
| | 7.0 | 1317 | 1.8 | 200 | | | 18000 | |
| | 5.6 | 1602 | 1.3 | 250 | | | 18000 | |
| | 4.7 | 1860 | 1.3 | 300 | | | 18000 | |
| | 3.5 | 2208 | 1.2 | 400 | | | 18000 | |
| | 2.8 | 2582 | 0.9 | 500 | | | 18000 | |
| | 2.3 | 3057 | 0.9 | 600 | | | 18000 | |
| | 186.7 | 83 | 1.5 | 7.5 | E-VF063 | | 2359 | 92-93 |
| | 140.0 | 109 | 1.2 | 10 | | | 2597 | |
| | 93.3 | 156 | 0.9 | 15 | | | 2973 | |
| | 186.7 | 84 | 2.2 | 7.5 | E-VF075 | | 2785 | 94-95 |
| N1=1400 N1=2800 N1=900 | 140.0 | 110 | 1.8 | 10 | | | 3065 | |
| | 93.3 | 160 | 1.2 | 15 | | | 3509 | |
| | 70.0 | 206 | 1.0 | 20 | | | 3862 | |
| | 56.0 | 251 | 0.8 | 25 | | | 4160 | |
| | 46.7 | 286 | 0.8 | 30 | | | 4421 | |
| | 70.0 | 211 | 1.7 | 20 | E-VF090 | | 4273 | 96-97 |
| | 56.0 | 257 | 1.3 | 25 | | | 4603 | |
| | 46.7 | 294 | 1.4 | 30 | | | 4891 | |
| | 35.0 | 377 | 1.0 | 40 | | | 5383 | |
| | 28.0 | 452 | 0.8 | 50 | | | 5799 | |

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------------------------|---------------|------------|------|------|---------------|--|------------|--------------|
| E-VF 1.8 | 56.0 | 264 | 2.2 | 25 | E-VF105 | | 5816 | 98-99 |
| | 35.0 | 392 | 1.6 | 40 | | | 6803 | |
| | 28.0 | 471 | 1.3 | 50 | | | 7328 | |
| | 23.3 | 542 | 1.0 | 60 | | | 7787 | |
| | 19.3 | 656 | 1.3 | 72.6 | PC090+E-VF105 | | 8298 | 106 |
| | 14.5 | 850 | 1.0 | 96.8 | | | 9133 | |
| | 11.6 | 1002 | 0.8 | 121 | | | 9838 | |
| | 56.0 | 264 | 2.6 | 25 | E-VF110 | | 5816 | 100 |
| | 35.0 | 392 | 1.8 | 40 | | | 6803 | |
| | 28.0 | 471 | 1.4 | 50 | | | 7328 | |
| | 23.3 | 542 | 1.1 | 60 | | | 7787 | |
| | 19.3 | 656 | 1.5 | 72.6 | PC090+E-VF110 | | 8298 | 106 |
| | 14.5 | 850 | 1.1 | 96.8 | | | 9133 | |
| | 11.6 | 1002 | 0.9 | 121 | | | 9838 | |
| 2.2 | 9.3 | 1259 | 1.9 | 150 | E-VF063/150 | | 18000 | 111 |
| | 7.0 | 1616 | 1.4 | 200 | | | 18000 | |
| | 5.6 | 1966 | 1.0 | 250 | | | 18000 | |
| | 4.7 | 2281 | 1.0 | 300 | | | 18000 | |
| | 3.5 | 2708 | 1.0 | 400 | | | 18000 | |
| | 2.8 | 3167 | 0.7 | 500 | | | 18000 | |
| | 373.3 | 51 | 1.8 | 7.5 | E-VF063 | | 1873 | |
| | 280.0 | 67 | 1.5 | 10 | | | 2061 | |
| | 186.7 | 97 | 1.1 | 15 | | | 2359 | |
| | 186.7 | 100 | 1.8 | 7.5 | E-VF075 | | 2785 | 94-95 |
| | 140.0 | 132 | 1.5 | 10 | | | 3065 | |
| | 93.3 | 191 | 1.0 | 15 | | | 3509 | |
| | 373.3 | 51 | 2.5 | 7.5 | E-VF075 | | 2210 | 94-95 |
| | 280.0 | 68 | 2.1 | 10 | | | 2433 | |
| N1=1400 N1=2800 N1=900 | 186.7 | 98 | 1.5 | 15 | | | 2785 | |
| | 140.0 | 128 | 1.3 | 20 | | | 3065 | |
| | 112.0 | 156 | 1.0 | 25 | | | 3302 | |
| | 93.3 | 180 | 0.9 | 30 | | | 3509 | |
| | 186.7 | 101 | 2.9 | 7.5 | E-VF090 | | 3081 | 96-97 |
| | 140.0 | 134 | 2.3 | 10 | | | 3391 | |
| | 93.3 | 194 | 1.9 | 15 | | | 3882 | |
| N1=1400 N1=2800 N1=900 | 70.0 | 252 | 1.4 | 20 | | | 4273 | |
| | 56.0 | 308 | 1.1 | 25 | | | 4603 | |
| | 46.7 | 351 | 1.2 | 30 | | | 4891 | |
| | 120.0 | 156 | 2.2 | 7.5 | E-VF090 | | 3570 | 96-97 |
| | 90.0 | 203 | 1.8 | 10 | | | 3929 | |
| | 60.0 | 294 | 1.4 | 15 | | | 4498 | |

E-VF

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|------|---------------|--|------------|--------------|
| 2.2 | 140.0 | 131 | 2.0 | 20 | E-VF090 | | 3391 | 96-97 |
| | 112.0 | 159 | 1.6 | 25 | | | 3653 | |
| | 93.3 | 185 | 1.7 | 30 | | | 3882 | |
| | 70.0 | 237 | 1.2 | 40 | | | 4273 | |
| | 56.0 | 285 | 0.9 | 50 | | | 4603 | |
| | 70.0 | 255 | 2.2 | 20 | E-VF105 | | 5399 | 98-99 |
| | 56.0 | 315 | 1.9 | 25 | | | 5816 | |
| | 46.7 | 356 | 1.8 | 30 | | | 6181 | |
| | 35.0 | 468 | 1.3 | 40 | | | 6803 | |
| | 28.0 | 563 | 1.1 | 50 | | | 7328 | |
| | 23.3 | 648 | 0.9 | 60 | | | 7787 | |
| | 90.0 | 205 | 3.0 | 10 | E-VF105 | | 4965 | 98-99 |
| | 60.0 | 298 | 2.2 | 15 | | | 5684 | |
| | 45.0 | 388 | 1.6 | 20 | | | 6256 | |
| | 36.0 | 473 | 1.4 | 25 | | | 6739 | |
| | 30.0 | 532 | 1.4 | 30 | | | 7161 | |
| | 112.0 | 163 | 2.7 | 25 | E-VF105 | | 4616 | 98-99 |
| | 93.3 | 187 | 2.6 | 30 | | | 4905 | |
| | 70.0 | 246 | 1.9 | 40 | | | 5399 | |
| | 56.0 | 296 | 1.5 | 50 | | | 5816 | |
| | 46.7 | 347 | 1.2 | 60 | | | 6181 | |
| | 38.6 | 398 | 1.8 | 72.6 | PC090+E-VF105 | | 6586 | 106 |
| | 28.9 | 516 | 1.3 | 96.8 | | | 7249 | |
| | 23.1 | 617 | 1.1 | 121 | | | 7809 | |
| | 70.0 | 255 | 2.5 | 20 | E-VF110 | | 5399 | 100 |
| | 56.0 | 315 | 2.2 | 25 | | | 5816 | |
| | 46.7 | 356 | 2.0 | 30 | | | 6181 | |
| | 35.0 | 468 | 1.5 | 40 | | | 6803 | |
| | 28.0 | 563 | 1.2 | 50 | | | 7328 | |
| | 23.3 | 648 | 1.0 | 60 | | | 7787 | |
| | 90.0 | 205 | 3.5 | 10 | E-VF110 | | 4965 | 100 |
| | 60.0 | 298 | 2.6 | 15 | | | 5684 | |
| | 45.0 | 388 | 1.9 | 20 | | | 6256 | |
| | 36.0 | 473 | 1.6 | 25 | | | 6739 | |
| | 30.0 | 532 | 1.6 | 30 | | | 7161 | |
| | 112.0 | 163 | 3.1 | 25 | E-VF110 | | 4616 | 100 |
| | 93.3 | 187 | 3.0 | 30 | | | 4905 | |
| | 70.0 | 246 | 2.1 | 40 | | | 5399 | |
| | 56.0 | 296 | 1.7 | 50 | | | 5816 | |
| | 46.7 | 347 | 1.4 | 60 | | | 6181 | |
| | 38.6 | 398 | 2.1 | 72.6 | PC090+E-VF110 | | 6586 | 106 |
| | 28.9 | 516 | 1.5 | 96.8 | | | 7249 | |
| | 23.1 | 617 | 1.2 | 121 | | | 7809 | |
| | 35.0 | 468 | 2.2 | 40 | E-VF130 | | 8897 | 101 |
| | 28.0 | 563 | 1.7 | 50 | | | 9584 | |
| | 23.3 | 648 | 1.4 | 60 | | | 10185 | |
| | 17.5 | 816 | 1.0 | 80 | | | 11210 | |
| | 36.0 | 479 | 2.2 | 25 | E-VF130 | | 8814 | 101 |
| | 30.0 | 546 | 2.1 | 30 | | | 9366 | |
| | 22.5 | 700 | 1.6 | 40 | | | 10309 | |
| | 18.0 | 840 | 1.2 | 50 | | | 11105 | |
| | 15.0 | 966 | 1.0 | 60 | | | 11801 | |

N1=1400
N1=2800
N1=900

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|-------|---------------|--|------------|--------------|
| 2.2 | 35.0 | 438 | 1.3 | 80 | E-VF130 | | 8897 | 101 |
| | 28.0 | 525 | 1.0 | 100 | | | | 9584 |
| | 38.6 | 409 | 2.9 | 72.6 | PC090+E-VF130 | | 8614 | 107 |
| | 28.9 | 545 | 2.0 | 96.8 | | | | 9481 |
| | 23.1 | 654 | 1.6 | 121 | | | | 10213 |
| | 19.3 | 752 | 1.3 | 145.2 | | | | 10853 |
| | 28.0 | 570 | 2.5 | 50 | E-VF150 | | 13103 | 102 |
| | 23.3 | 657 | 1.9 | 60 | | | | 13924 |
| | 17.5 | 816 | 1.4 | 80 | | | | 15325 |
| | 14.0 | 960 | 1.0 | 100 | | | | 16508 |
| | 373.3 | 70 | 1.9 | 7.5 | E-VF075 | | 2210 | 94-95 |
| | 280.0 | 92 | 1.6 | 10 | | | | 2433 |
| | 186.7 | 137 | 1.4 | 7.5 | E-VF075 | | 2785 | 94-95 |
| | 140.0 | 180 | 1.1 | 10 | | | | 3065 |
| | 93.3 | 261 | 0.8 | 15 | | | | 3509 |
| | 373.3 | 71 | 3.0 | 7.5 | E-VF090 | | 2446 | 96-97 |
| | 280.0 | 92 | 2.6 | 10 | | | | 2692 |
| | 186.7 | 138 | 2.1 | 7.5 | E-VF090 | | 3081 | 96-97 |
| | 140.0 | 182 | 1.7 | 10 | | | | 3391 |
| | 93.3 | 264 | 1.4 | 15 | | | | 3882 |
| | 70.0 | 344 | 1.0 | 20 | | | | 4273 |
| | 56.0 | 420 | 0.8 | 25 | | | | 4603 |
| | 46.7 | 479 | 0.9 | 30 | | | | 4891 |
| | 93.3 | 264 | 2.2 | 15 | E-VF105 | | 4905 | 98-99 |
| | 70.0 | 348 | 1.6 | 20 | | | | 5399 |
| | 56.0 | 430 | 1.4 | 25 | | | | 5816 |
| | 46.7 | 485 | 1.3 | 30 | | | | 6181 |
| | 35.0 | 638 | 1.0 | 40 | | | | 6803 |
| | 28.0 | 767 | 0.8 | 50 | | | | 7328 |
| | 120.0 | 212 | 2.7 | 7.5 | E-VF105 | | 4511 | 98-99 |
| | 90.0 | 280 | 2.2 | 10 | | | | 4965 |
| | 60.0 | 406 | 1.6 | 15 | | | | 5684 |
| | 45.0 | 528 | 1.2 | 20 | | | | 6256 |
| | 93.3 | 264 | 2.5 | 15 | E-VF110 | | 4905 | 100 |
| | 70.0 | 348 | 1.9 | 20 | | | | 5399 |
| | 56.0 | 430 | 1.6 | 25 | | | | 5816 |
| | 46.7 | 485 | 1.5 | 30 | | | | 6181 |
| | 35.0 | 638 | 1.1 | 40 | | | | 6803 |
| | 28.0 | 767 | 0.9 | 50 | | | | 7328 |
| | 120.0 | 212 | 3.1 | 7.5 | E-VF110 | | 4511 | 100 |
| | 90.0 | 280 | 2.5 | 10 | | | | 4965 |
| | 60.0 | 406 | 1.9 | 15 | | | | 5684 |

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|-----|---------|--------|------------|-------|
| 3 | 90.0 | 280 | 3.4 | 10 | E-VF130 | 132S6 | 6494 | 101 |
| | 60.0 | 406 | 2.6 | 15 | | | 7434 | |
| | 45.0 | 535 | 1.9 | 20 | | | 8182 | |
| | 36.0 | 653 | 1.6 | 25 | | | 8814 | |
| | 30.0 | 745 | 1.6 | 30 | | | 9366 | |
| | 22.5 | 955 | 1.2 | 40 | | | 10309 | |
| | 28.0 | 778 | 1.8 | 50 | E-VF150 | 100LB4 | 13103 | 102 |
| | 23.3 | 896 | 1.4 | 60 | | | 13924 | |
| | 17.5 | 1113 | 1.0 | 80 | | | 15325 | |
| | 14.0 | 1310 | 0.8 | 100 | | | 16508 | |
| 4 | 373.3 | 93 | 1.4 | 7.5 | E-VF075 | 112M2 | 2210 | 94-95 |
| | 280.0 | 123 | 1.2 | 10 | | | 2433 | |
| | 186.7 | 182 | 1.0 | 7.5 | E-VF075 | 112M4 | 2785 | 94-95 |
| | 140.0 | 240 | 0.8 | 10 | | | 3065 | |
| | 373.3 | 94 | 2.2 | 7.5 | E-VF090 | 112M2 | 2446 | 96-97 |
| | 280.0 | 123 | 1.9 | 10 | | | 2692 | |
| | 186.7 | 184 | 1.6 | 7.5 | E-VF090 | 112M4 | 3081 | 96-97 |
| | 140.0 | 243 | 1.3 | 10 | | | 3391 | |
| | 93.3 | 352 | 1.0 | 15 | | | 3882 | |
| | 70.0 | 458 | 0.8 | 20 | | | 4273 | |
| 5 | 140.0 | 243 | 2.1 | 10 | E-VF105 | 112M4 | 4285 | 98-99 |
| | 93.3 | 352 | 1.6 | 15 | | | 4905 | |
| | 70.0 | 464 | 1.2 | 20 | | | 5399 | |
| | 56.0 | 573 | 1.0 | 25 | | | 5816 | |
| | 46.7 | 647 | 1.0 | 30 | | | 6181 | |
| | 120.0 | 283 | 2.0 | 7.5 | E-VF105 | 132M6 | 4511 | 98-99 |
| | 90.0 | 374 | 1.7 | 10 | | | 4965 | |
| | 60.0 | 541 | 1.2 | 15 | | | 5684 | |
| | 140.0 | 243 | 2.5 | 10 | E-VF110 | 112M4 | 4285 | 100 |
| | 93.3 | 352 | 1.9 | 15 | | | 4905 | |
| 6 | 70.0 | 464 | 1.4 | 20 | | | 5399 | |
| | 56.0 | 573 | 1.2 | 25 | | | 5816 | |
| | 46.7 | 647 | 1.1 | 30 | | | 6181 | |
| | 120.0 | 283 | 2.3 | 7.5 | E-VF110 | 132M6 | 4511 | 100 |
| | 90.0 | 374 | 1.9 | 10 | | | 4965 | |
| | 60.0 | 541 | 1.4 | 15 | | | 5684 | |
| | 56.0 | 573 | 1.6 | 25 | E-VF130 | 112M4 | 7607 | 101 |
| | 46.7 | 655 | 1.6 | 30 | | | 8084 | |
| | 35.0 | 851 | 1.2 | 40 | | | 8897 | |
| | 28.0 | 1023 | 1.0 | 50 | | | 9584 | |
| 7 | 23.3 | 1179 | 0.8 | 60 | | | 10185 | |
| | 120.0 | 287 | 3.1 | 7.5 | E-VF130 | 132M6 | 5901 | 101 |
| | 90.0 | 374 | 2.6 | 10 | | | 6494 | |
| | 60.0 | 541 | 2.0 | 15 | | | 7434 | |
| | 45.0 | 713 | 1.5 | 20 | | | 8182 | |
| | 36.0 | 870 | 1.2 | 25 | | | 8814 | |
| | 28.0 | 1037 | 1.4 | 50 | E-VF150 | 112M4 | 13103 | 102 |
| | 23.3 | 1195 | 1.1 | 60 | | | 13924 | |
| | 17.5 | 1484 | 0.8 | 80 | | | 15325 | |

N1=1400
N1=2800
N1=900

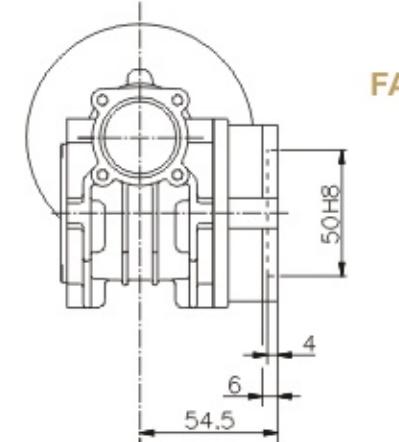
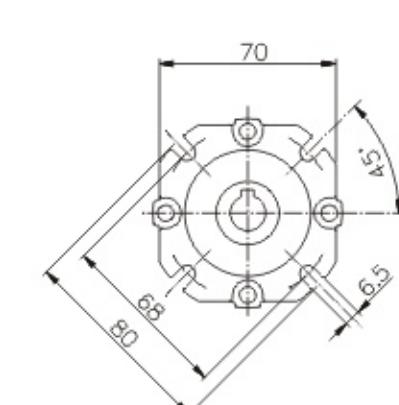
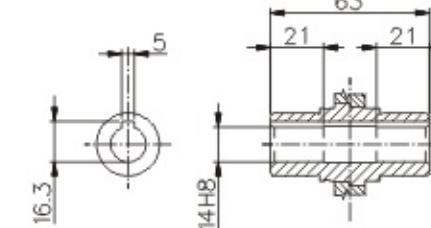
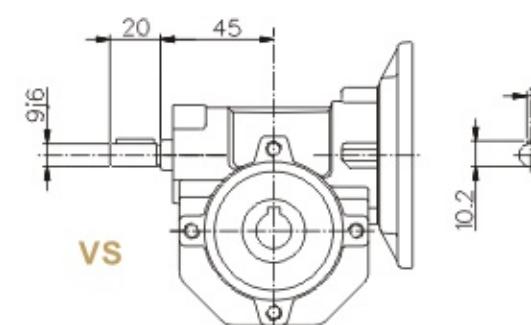
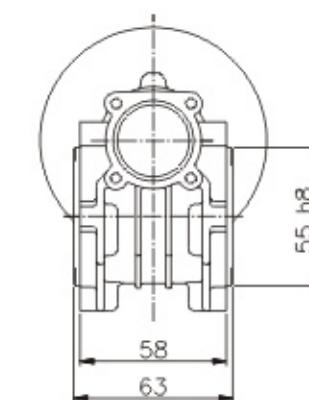
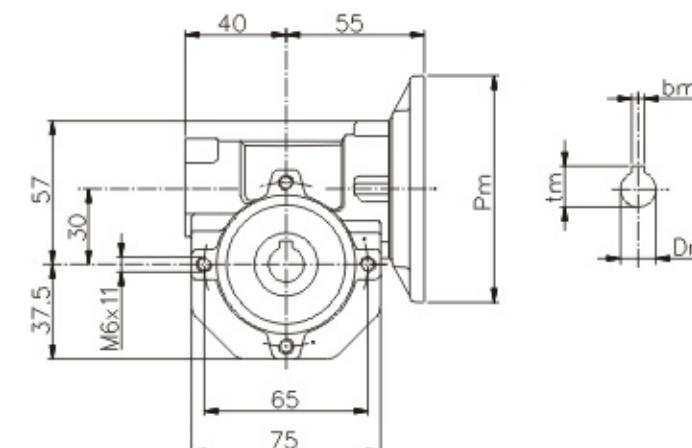
| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | | Fr2 (N) | |
|------------|---------------|------------|------|-----|---------|--------|------------|-------|
| 4.8 | 186.7 | 221 | 1.3 | 7.5 | E-VF090 | 112MS4 | 3081 | 96-97 |
| | 140.0 | 291 | 1.1 | 10 | | | 3391 | |
| | 93.3 | 422 | 0.9 | 15 | | | 3882 | |
| | 186.7 | 221 | 2.2 | 7.5 | E-VF105 | 112MS4 | 3893 | 98-99 |
| | 140.0 | 291 | 1.8 | 10 | | | 4285 | |
| | 93.3 | 422 | 1.3 | 15 | | | 4905 | |
| | 70.0 | 557 | 1.0 | 20 | | | 5399 | |
| | 56.0 | 688 | 0.9 | 25 | | | 5816 | |
| | 186.7 | 221 | 2.5 | 7.5 | E-VF110 | 112MS4 | 3893 | 100 |
| | 140.0 | 291 | 2.1 | 10 | | | 4285 | |
| 5.5 | 93.3 | 422 | 1.6 | 15 | | | 4905 | |
| | 70.0 | 557 | 1.2 | 20 | | | 5399 | |
| | 56.0 | 688 | 1.4 | 25 | E-VF130 | 112MS4 | 7607 | 101 |
| | 46.7 | 786 | 1.3 | 30 | | | 8084 | |
| | 35.0 | 1022 | 1.0 | 40 | | | 8897 | |
| | 28.0 | 1228 | 0.8 | 50 | | | 9584 | |
| | 28.0 | 1244 | 1.1 | 50 | E-VF150 | 112MS4 | 13103 | 102 |
| | 23.3 | 1434 | 0.9 | 60 | | | 13924 | |
| | 186.7 | 253 | 1.9 | 7.5 | E-VF105 | 132S4 | 3893 | 98-99 |
| | 140.0 | 334 | 1.6 | 10 | | | 4285 | |
| 7.5 | 93.3 | 484 | 1.2 | 15 | | | 4905 | |
| | 70.0 | 638 | 0.9 | 20 | | | 5399 | |
| | 186.7 | 253 | 2.2 | 7.5 | E-VF110 | 132S4 | 3893 | 100 |
| | 140.0 | 334 | 1.8 | 10 | | | 4285 | |
| | 93.3 | 484 | 1.4 | 15 | | | 4905 | |
| | 70.0 | 638 | 1.0 | 20 | | | 5399 | |
| | 140.0 | 334 | 2.5 | 10 | E-VF130 | 132S4 | 5605 | 101 |
| | 93.3 | 490 | 1.9 | 15 | | | 6416 | |
| | 70.0 | 645 | 1.4 | 20 | | | 7062 | |
| | 56.0 | 788 | 1.2 | 25 | | | 7607 | |
| 8 | 46.7 | 900 | 1.2 | 30 | | | 8084 | |
| | 35.0 | 1171 | 0.9 | 40 | | | 8897 | |
| | 70.0 | 645 | 2.0 | 20 | E-VF150 | 132S4 | 9654 | 102 |
| | 56.0 | 788 | 1.5 | 25 | | | 10400 | |
| | 46.7 | 934 | 1.3 | 30 | | | 11051 | |
| | 35.0 | 1171 | 1.3 | 40 | | | 12163 | |
| | 28.0 | 1426 | 1.0 | 50 | | | 13103 | |
| | 23.3 | 1643 | 0.8 | 60 | | | 13924 | |
| | 186.7 | 345 | 1.4 | 7.5 | E-VF105 | 132L4 | 3893 | 98-99 |
| | 140.0 | 455 | 1.1 | 10 | | | 4285 | |
| 9 | 93.3 | 660 | 0.9 | 15 | | | 4905 | |
| | 186.7 | 345 | 1.6 | 7.5 | E-VF110 | 132L4 | 3893 | 100 |
| | 140.0 | 455 | 1.3 | 10 | | | 4285 | |
| | 93.3 | 660 | 1.0 | 15 | | | 4905 | |
| | 186.7 | 349 | 2.1 | 7.5 | E-VF130 | 132L4 | 5092</ | |

| P1 (KW) | n2 (1/min) | M2 (Nm) | f.s. | i | 型号 Size | Fr2 (N) | |
|------------|---------------|------------|------|-----|---------|------------|----------|
| 7.5 | 70.0 | 880 | 1.5 | 20 | E-VF150 | 132L4 | 9654 102 |
| | 56.0 | 1074 | 1.1 | 25 | | | 10400 |
| | 46.7 | 1274 | 0.9 | 30 | | | 11051 |
| | 35.0 | 1596 | 1.0 | 40 | | | 12163 |
| 9.2 | 186.7 | 424 | 1.3 | 7.5 | E-VF110 | 132M4 | 3893 100 |
| | 186.7 | 428 | 1.8 | 7.5 | E-VF130 | 132M4 | 5092 101 |
| | 140.0 | 559 | 1.5 | 10 | | | 5605 |
| | 93.3 | 819 | 1.1 | 15 | | | 6416 |
| | 70.0 | 1079 | 0.8 | 20 | | | 7062 |
| | 56.0 | 1318 | 0.7 | 25 | | | 7607 |
| 11 | 70.0 | 1079 | 1.2 | 20 | E-VF150 | 132M4 | 9654 102 |
| | 56.0 | 1318 | 0.9 | 25 | | | 10400 |
| | 46.7 | 1563 | 0.8 | 30 | | | 11051 |
| | 35.0 | 1958 | 0.8 | 40 | | | 12163 |
| | 186.7 | 512 | 2.3 | 7.5 | E-VF150 | 160M4 | 6962 102 |
| 15 | 140.0 | 675 | 1.8 | 10 | | | 7663 |
| | 93.3 | 990 | 1.3 | 15 | | | 8771 |
| | 70.0 | 1291 | 1.0 | 20 | | | 9654 |
| | 56.0 | 1576 | 0.8 | 25 | | | 10400 |
| | 186.7 | 698 | 1.7 | 7.5 | E-VF150 | 160L4 | 6962 102 |
| 140.0 | 140.0 | 921 | 1.3 | 10 | | | 7663 |
| | 93.3 | 1351 | 0.9 | 15 | | | 8771 |
| | 70.0 | 1760 | 0.7 | 20 | | | 9654 |

N1=1400
N1=2800
N1=900

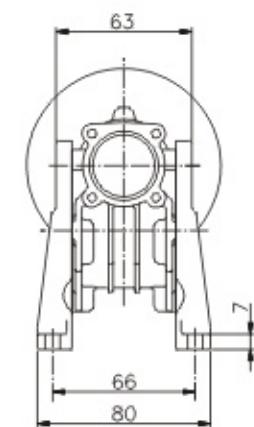
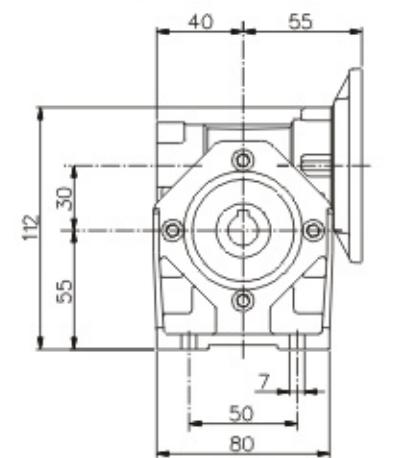
E-VF 外形尺寸图表 OUTLINE DIMENSION SHEET FOR E-VF

E-VF 030 T



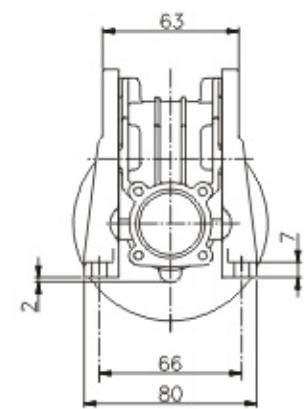
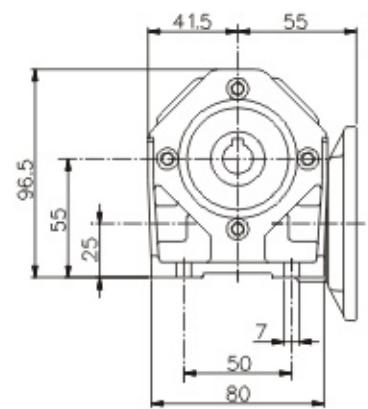
*不带电机的重量-1.2kg
Weight without motor-1.2kg

E-VF 030 PA

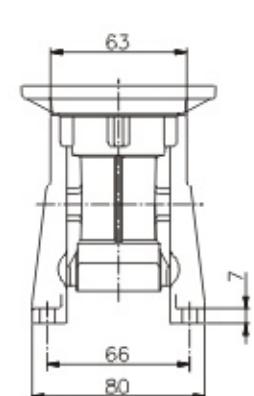
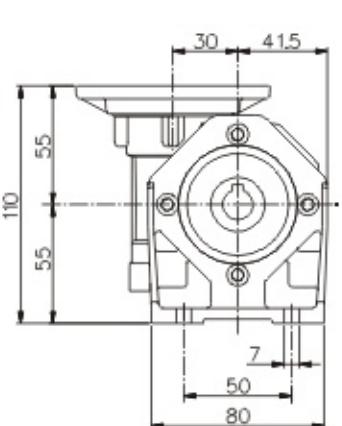


E-VF

E-VF 030 PB



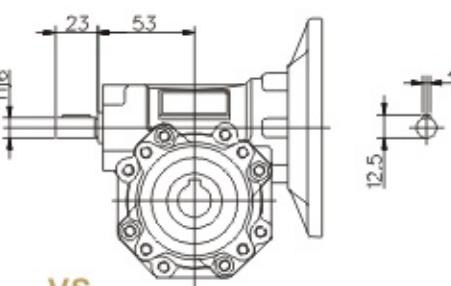
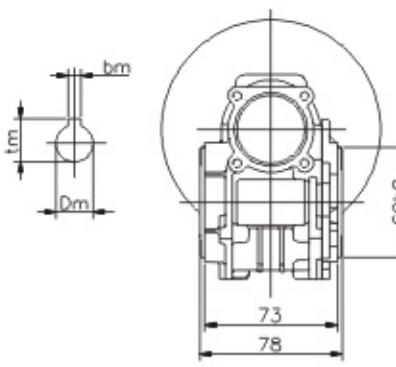
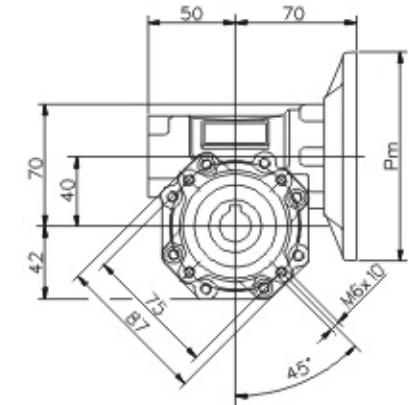
E-VF 030 PV



有关电机连接位置的尺寸,请参阅57页的表格。

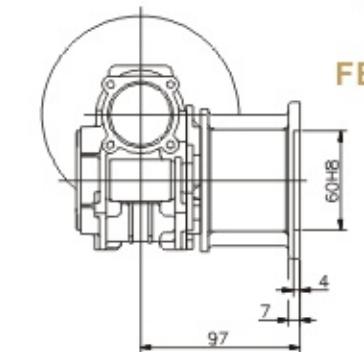
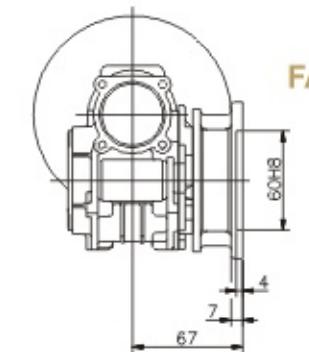
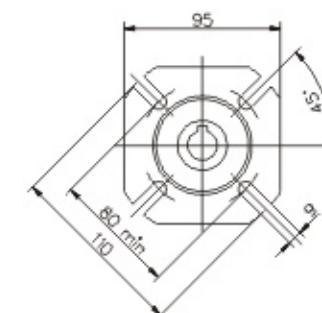
For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 57.

E-VF 040 T



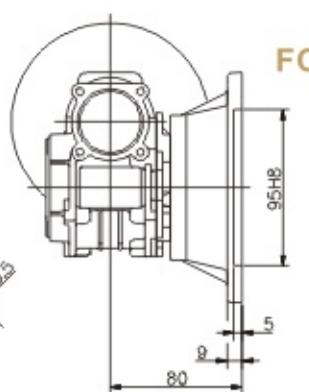
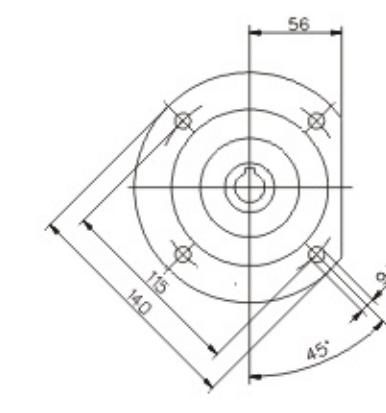
VS

E-VF

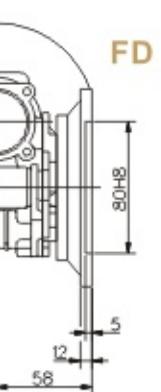


FA

FB



FC

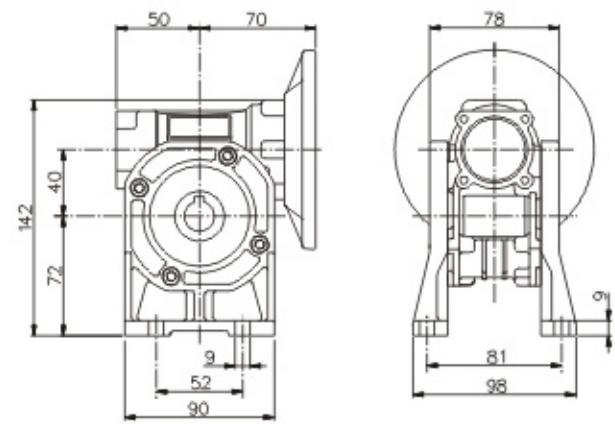


FD

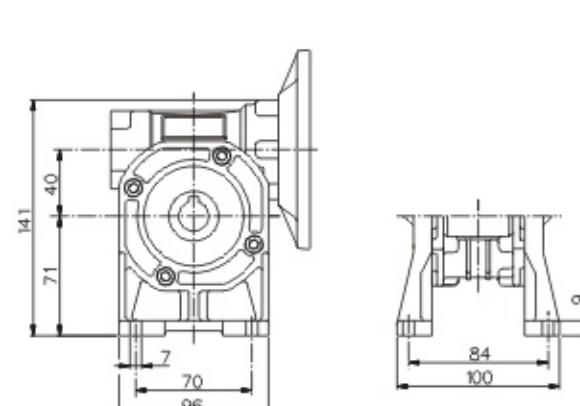
| 输出/Output | | |
|------------|----------|----------------|
| D H8 | b | t |
| 18 (19) | 6 (6) | 20,8 (21,8) |

按要求, 不带电机重量2.3kg
Only on request weight without motor-2.3kg

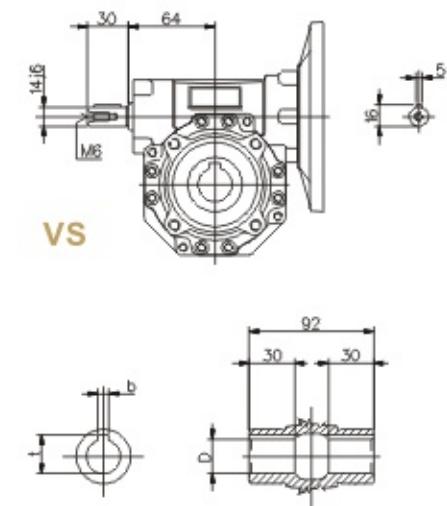
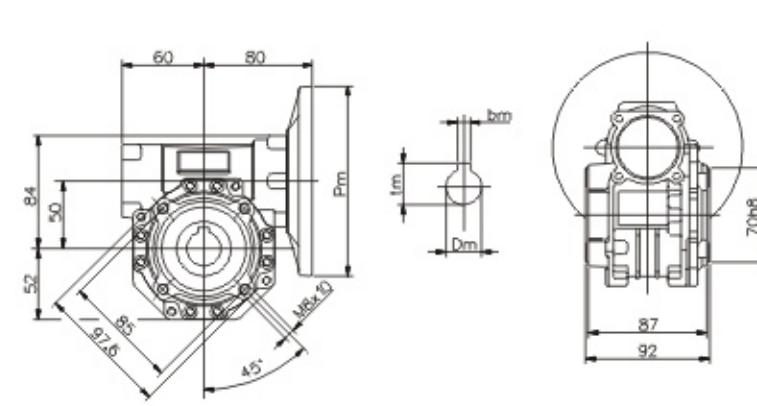
E-VF 040 PA



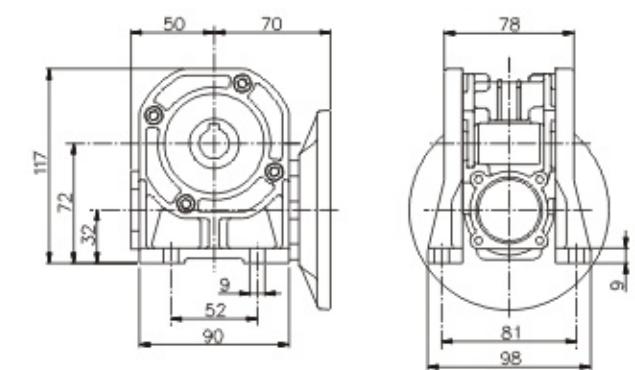
E-VF 040 PAS



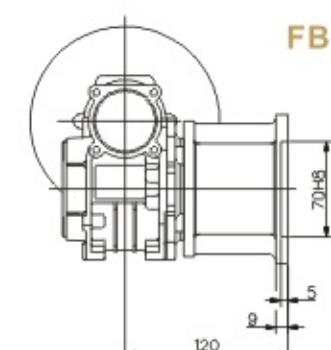
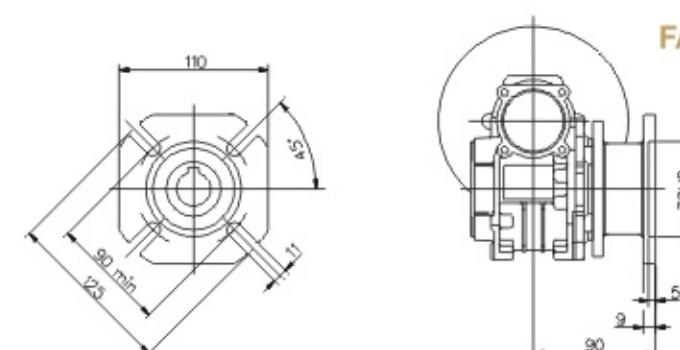
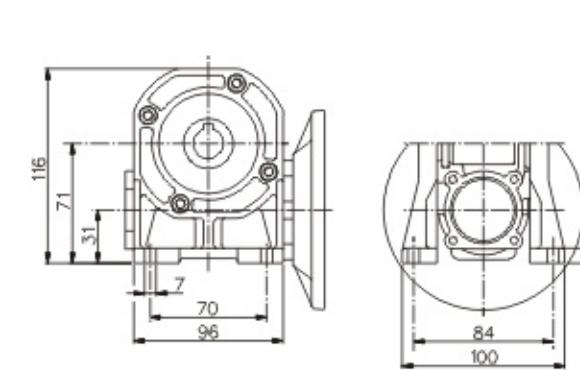
E-VF 050 T



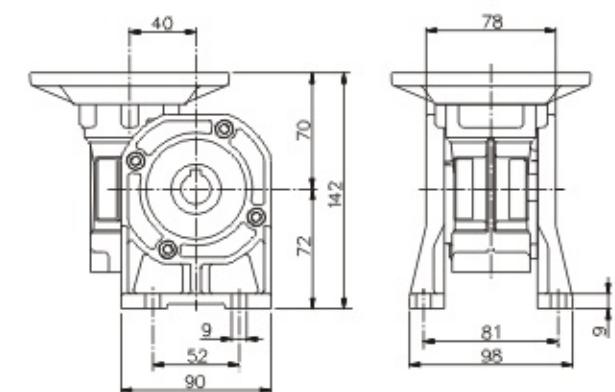
E-VF 040 PB



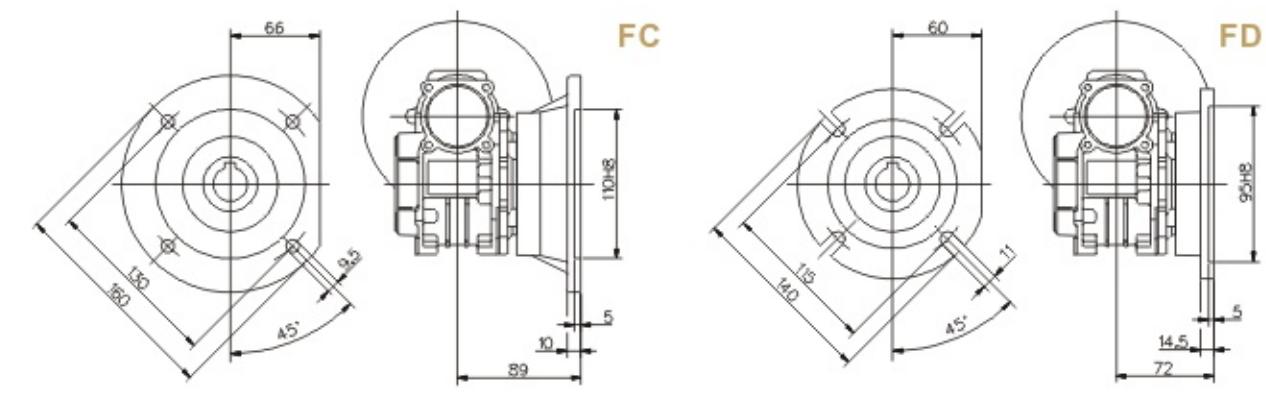
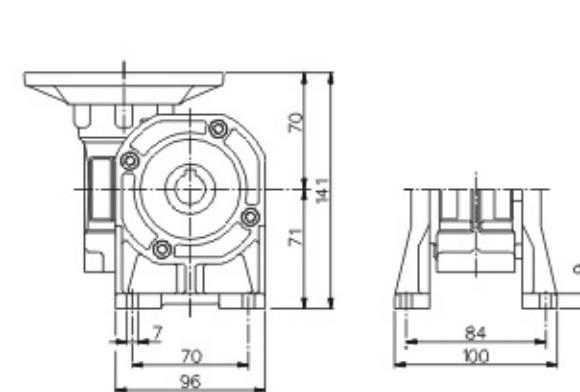
E-VF 040 PBS



E-VF 040 PV



E-VF 040 PVS



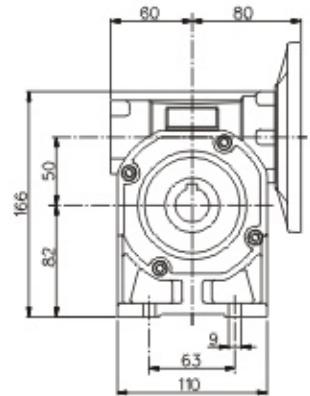
有关电机连接位置的尺寸，请参阅57页的表格。

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 57.

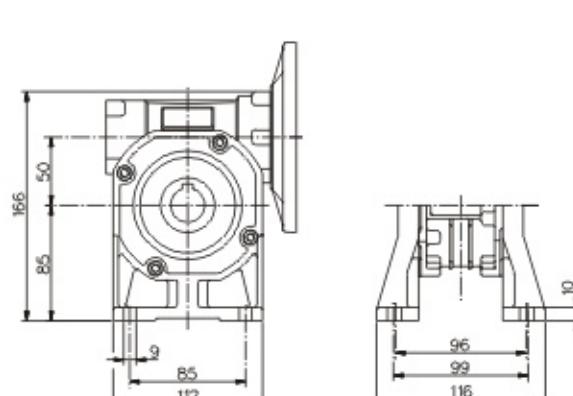
| D H8 | b | t |
|------------|----------|----------------|
| 25 (24) | 8 (8) | 28,3 (27,3) |

按要求，不带电机重量3.5kg
Only on request weight without motor-3.5kg

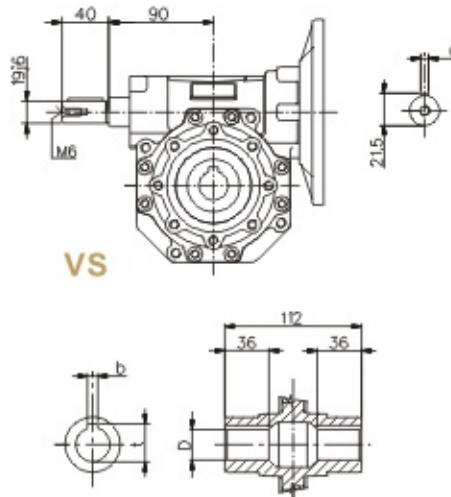
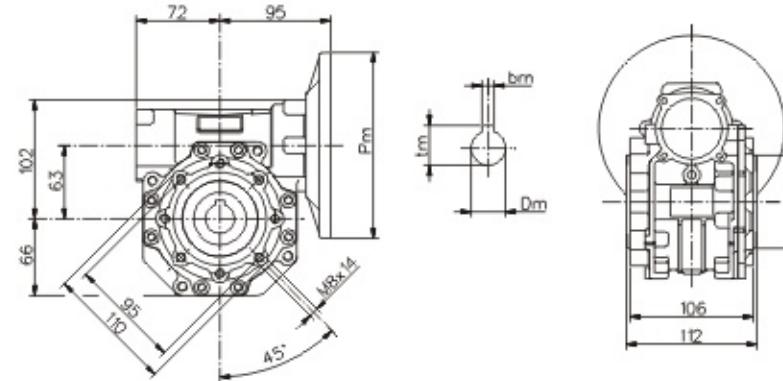
E-VF 050 PA



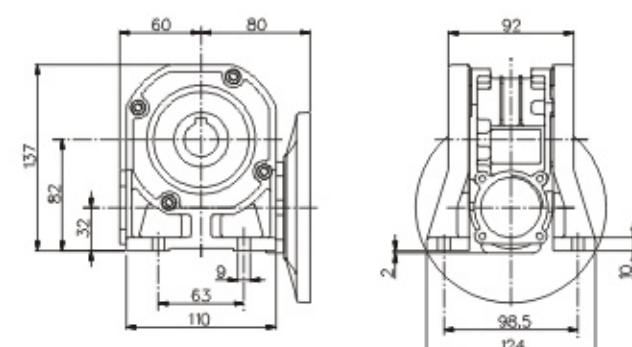
E-VF 050 PAS



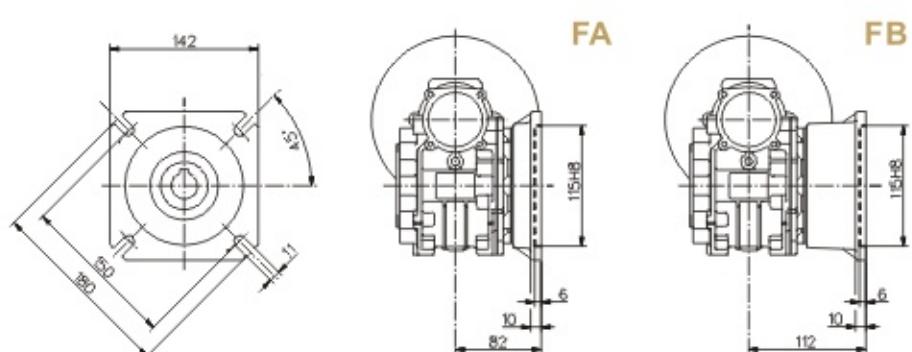
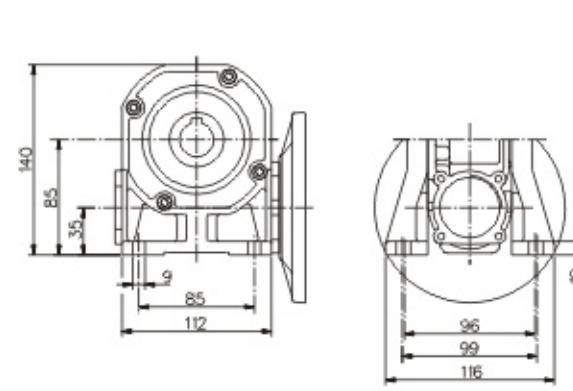
E-VF 063 T



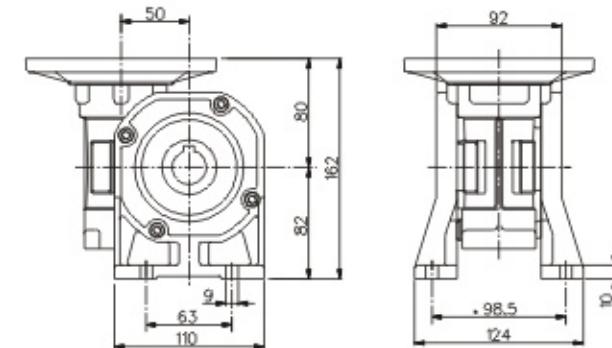
E-VF 050 PB



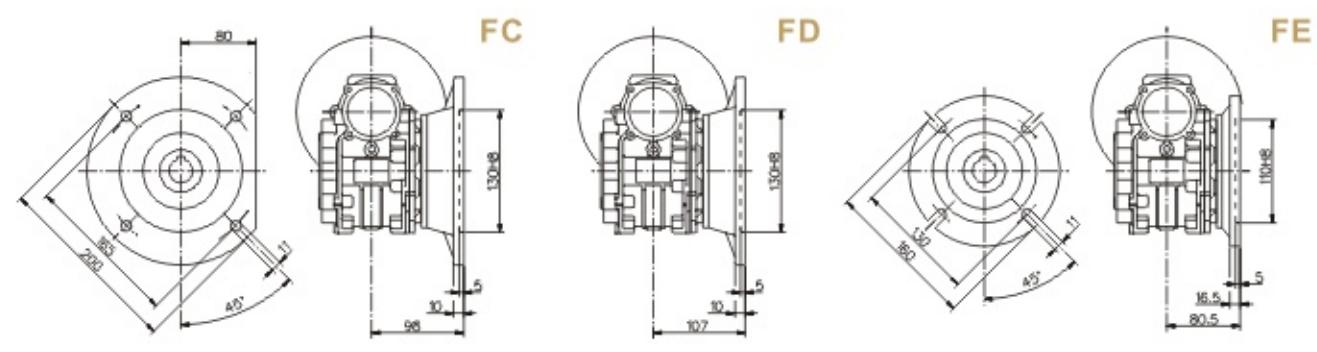
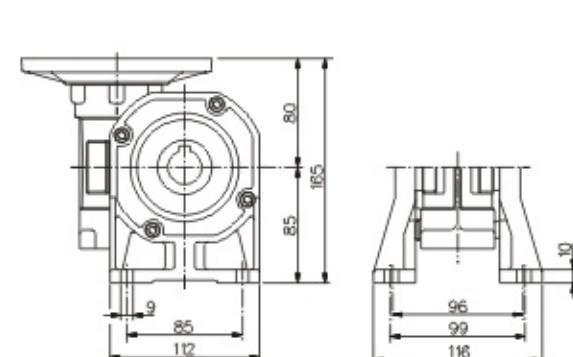
E-VF 050 PBS



E-VF 050 PV



E-VF 050 PVS



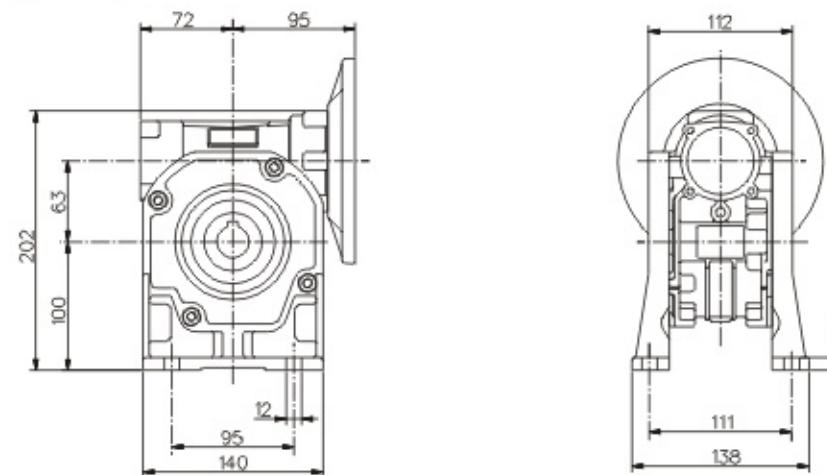
有关电机连接位置的尺寸，请参阅57页的表格。

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 57.

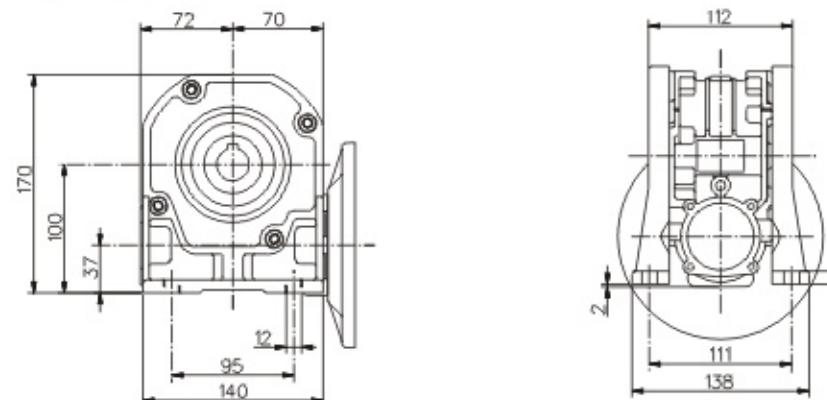
| 输出/Output | | |
|------------|----------|----------------|
| D H8 | b | t |
| 25 (28) | 8 (8) | 28,3 (31,3) |

按要求，不带电机重量6.2kg
Only on request weight without motor-6.2kg

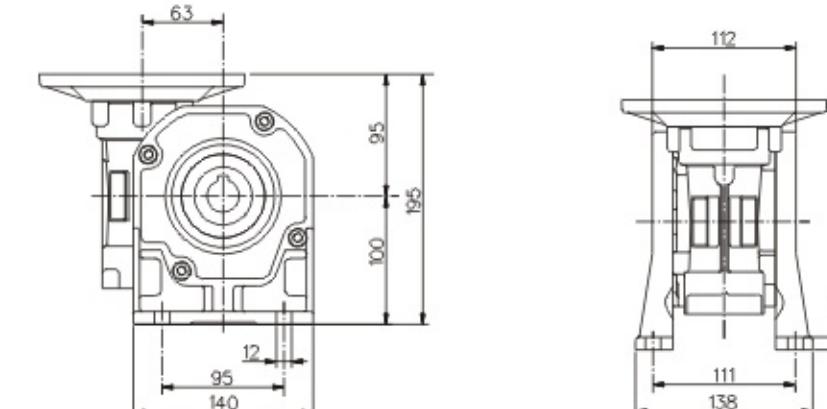
E-VF 063 PA



E-VF 063 PB



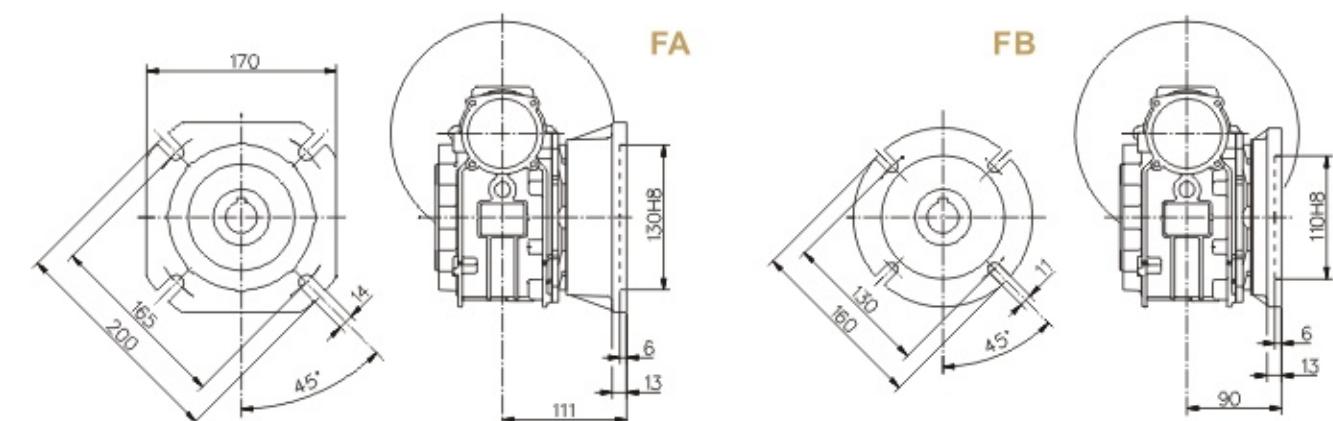
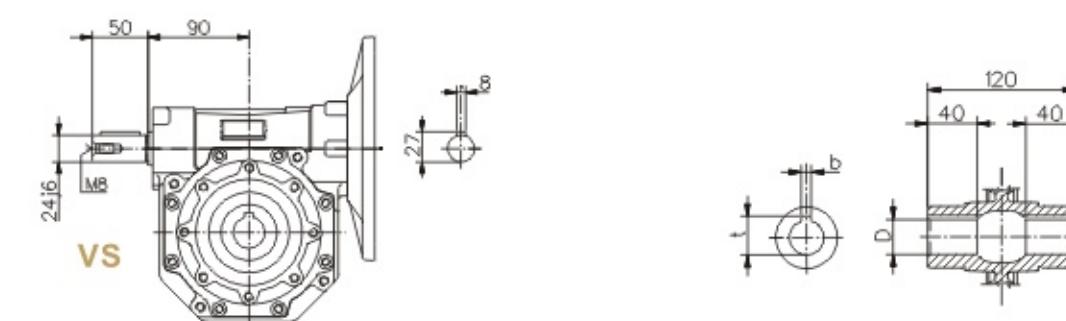
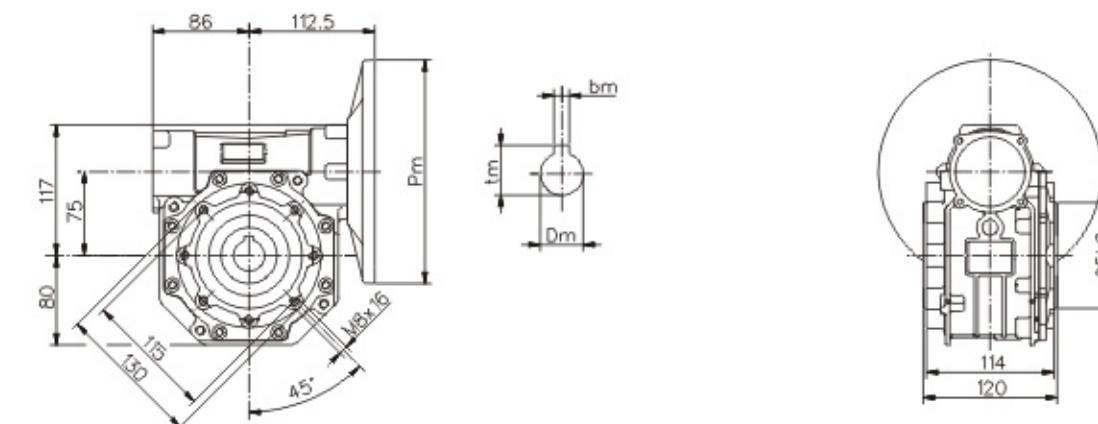
E-VF 063 PV



有关电机连接位置的尺寸,请参阅57页的表格。

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 57.

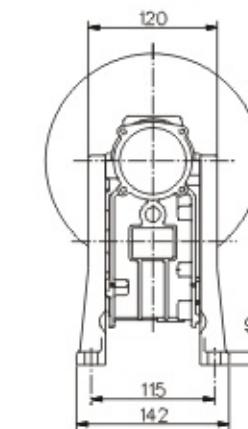
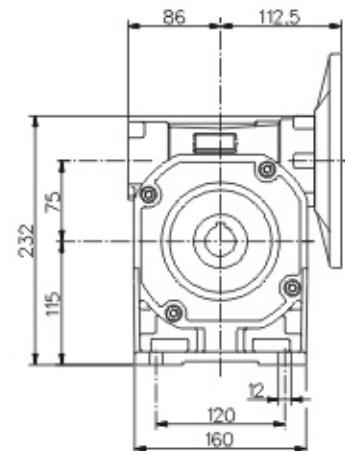
E-VF 075 T



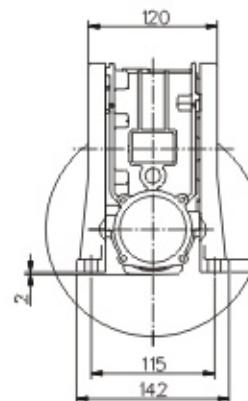
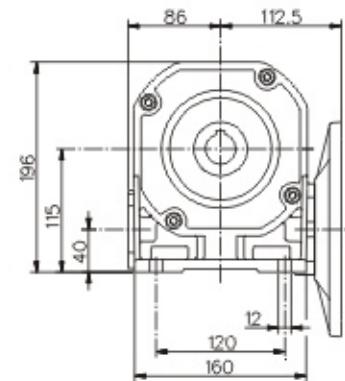
| 输出/Output | | |
|------------|-----------|----------------|
| D H8 | b | t |
| 28 (35) | 8 (10) | 31,3 (38,3) |

按要求, 不带电机重量9kg
Only on request weight without motor-9kg

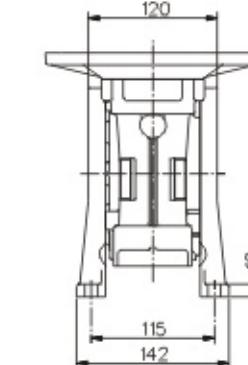
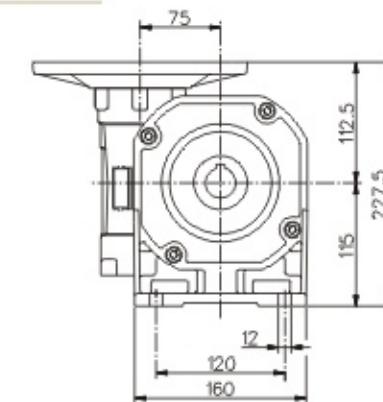
E-VF 075 PA



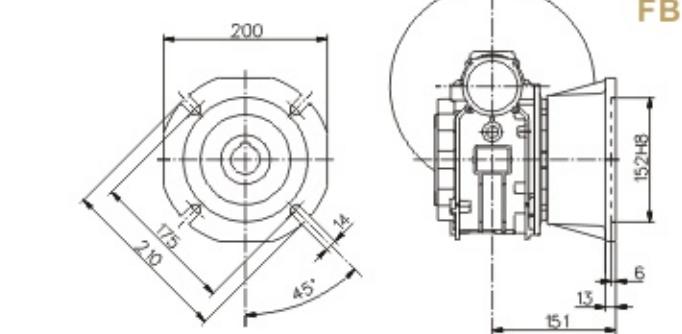
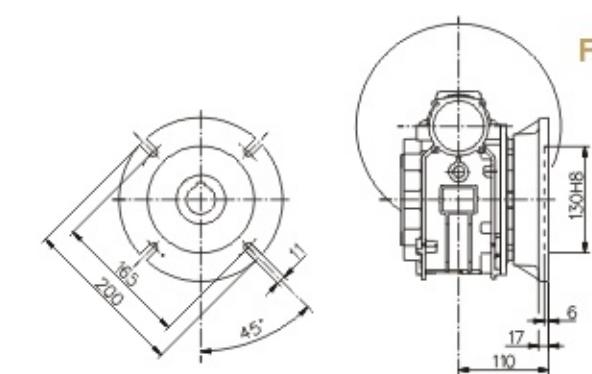
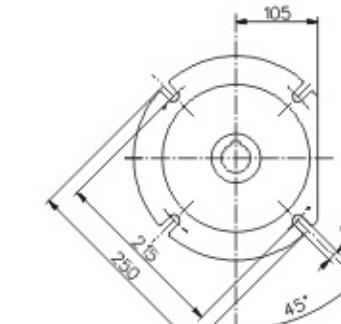
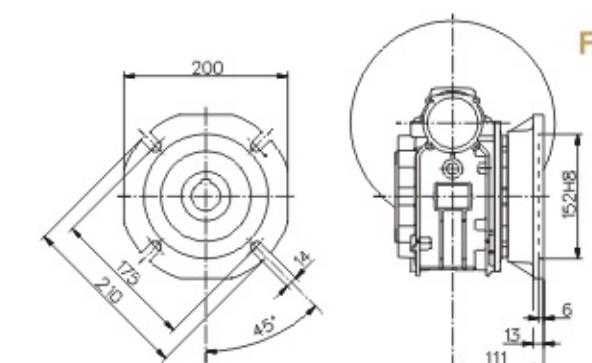
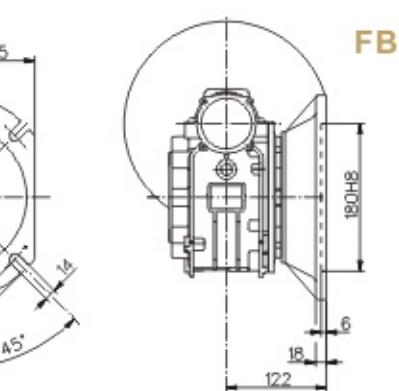
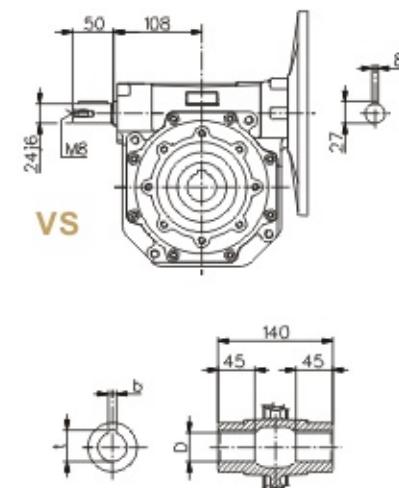
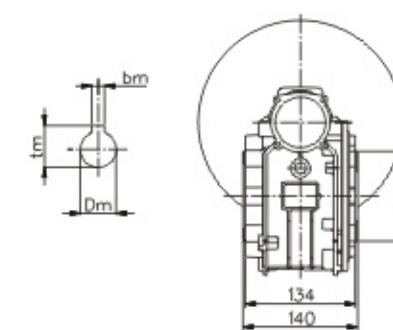
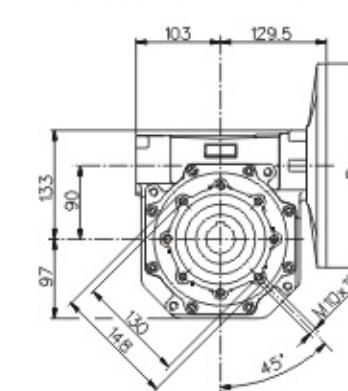
E-VF 075 PB



E-VF 075 PV



E-VF090 T



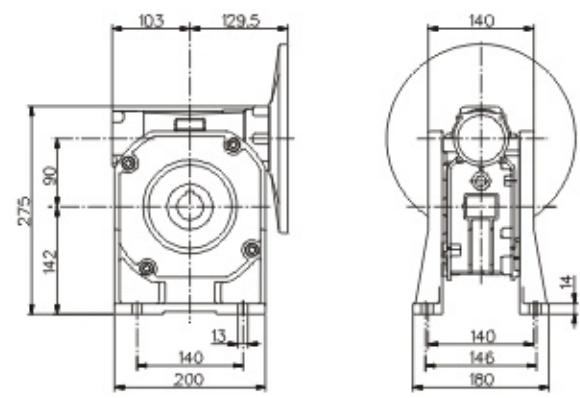
有关电机连接位置的尺寸,请参阅57页的表格。

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 57.

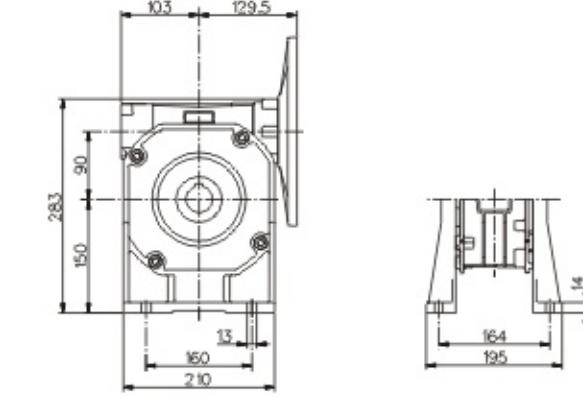
| 输出/Output | | |
|------------|------------|----------------|
| D H8 | b | t |
| 35 (38) | 10 (10) | 38.3 (41.3) |

按要求, 不带电机重量13kg
Only on request weight without motor-13kg

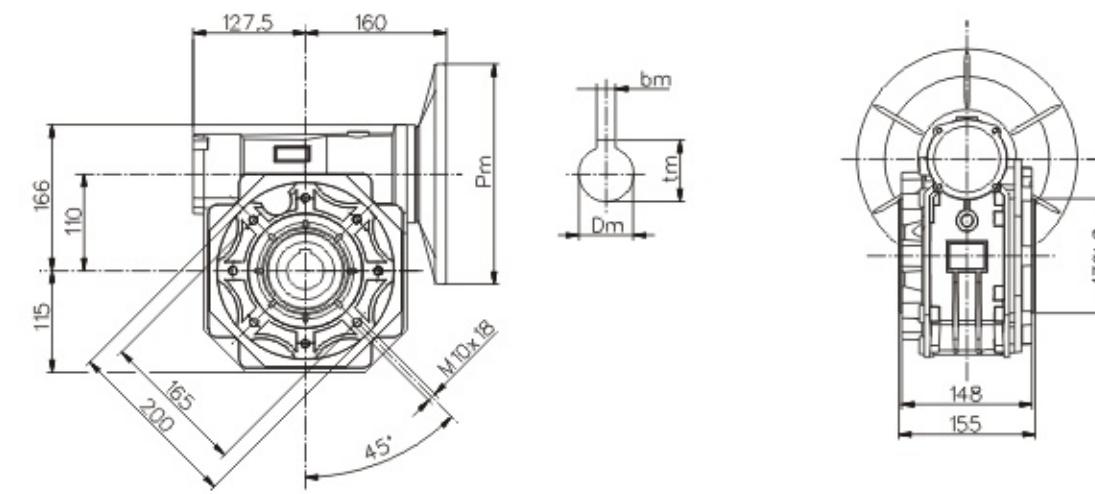
E-VF 090 PA



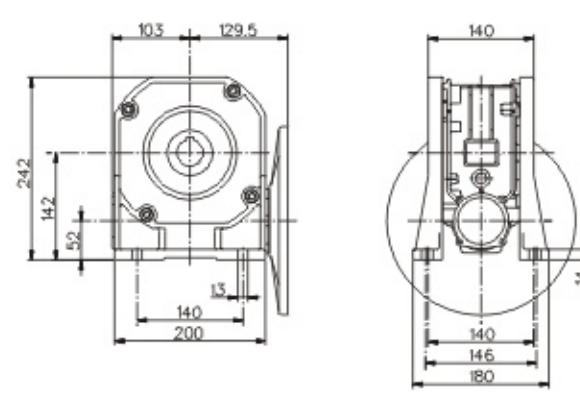
E-VF 090 PAS



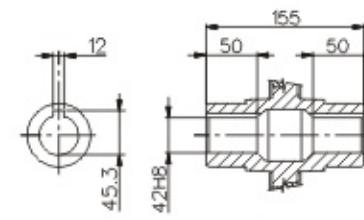
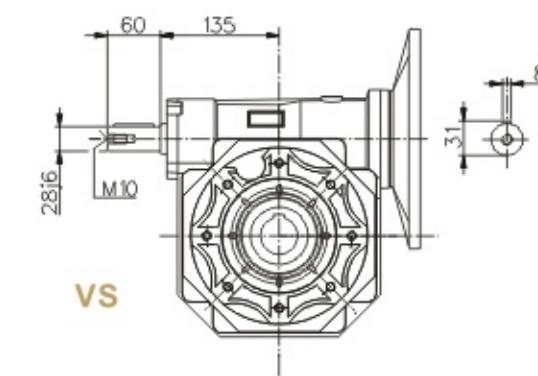
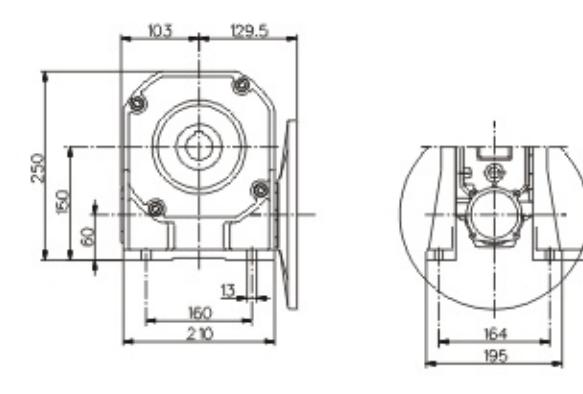
E-VF105 T



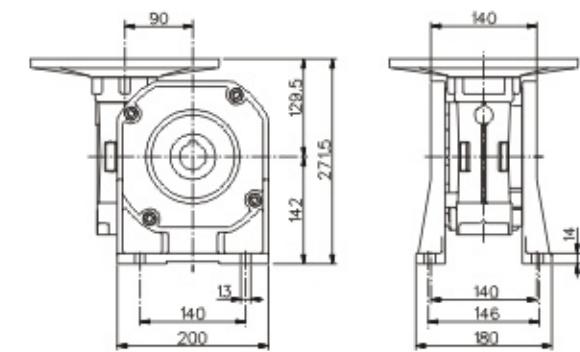
E-VF 090 PB



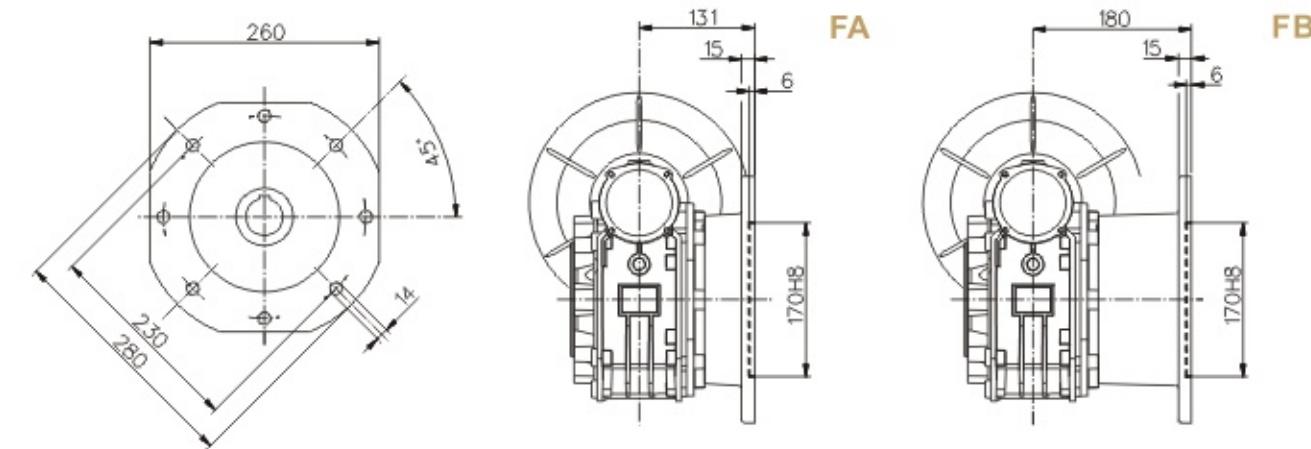
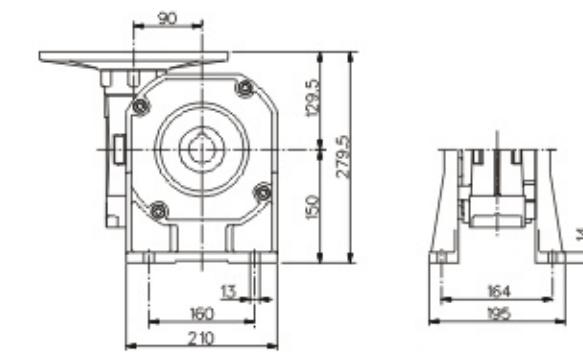
E-VF 090 PBS



E-VF 090 PV



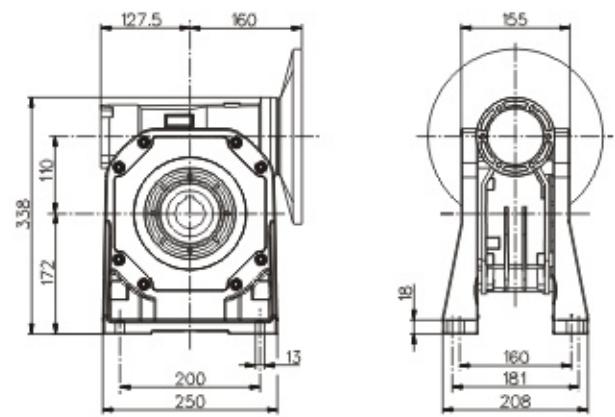
E-VF 090 PVS



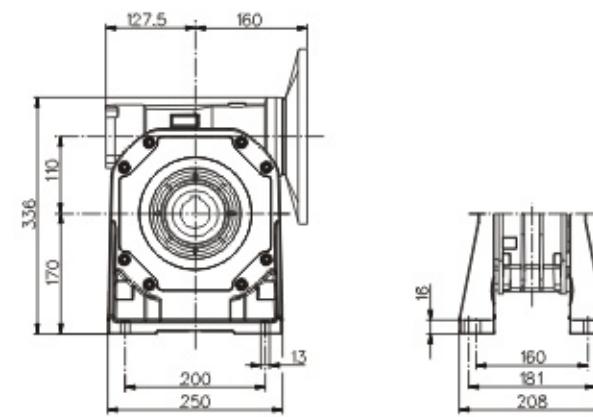
• 有关电机连接位置的尺寸，请参阅57页的表格。

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 57.

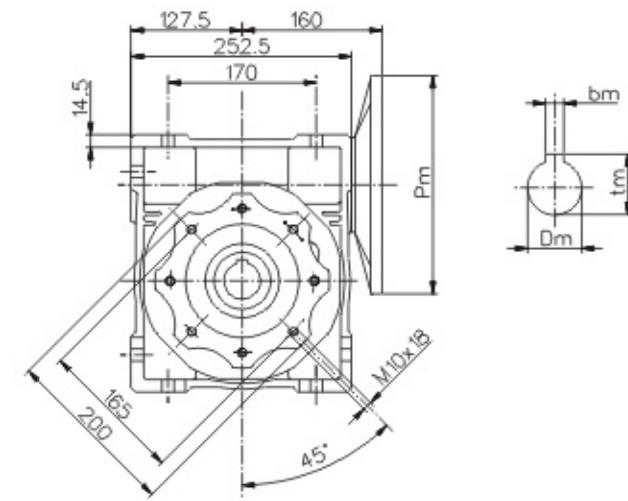
E-VF 105 PA



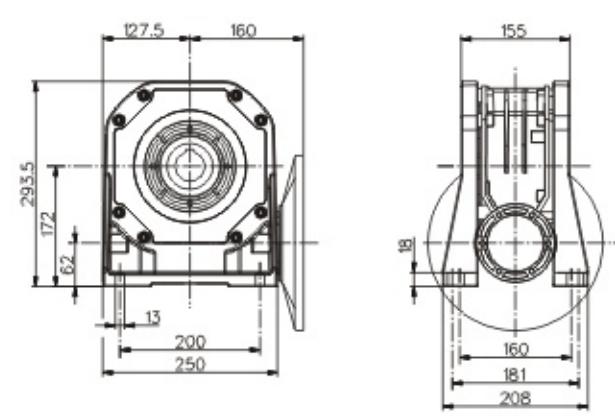
E-VF 105 PAS



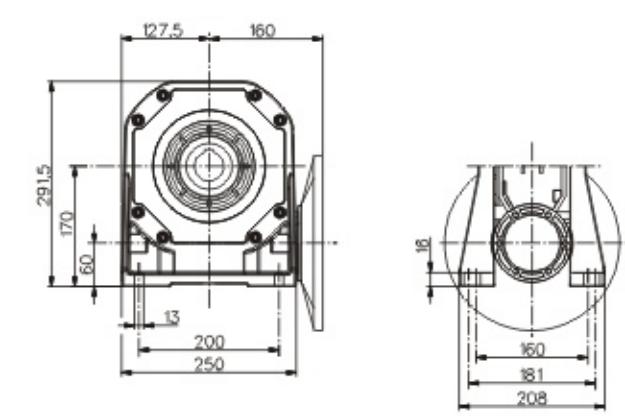
E-VF 110



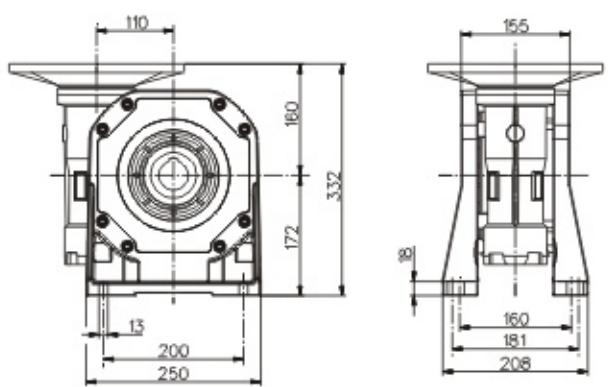
E-VF 105 PB



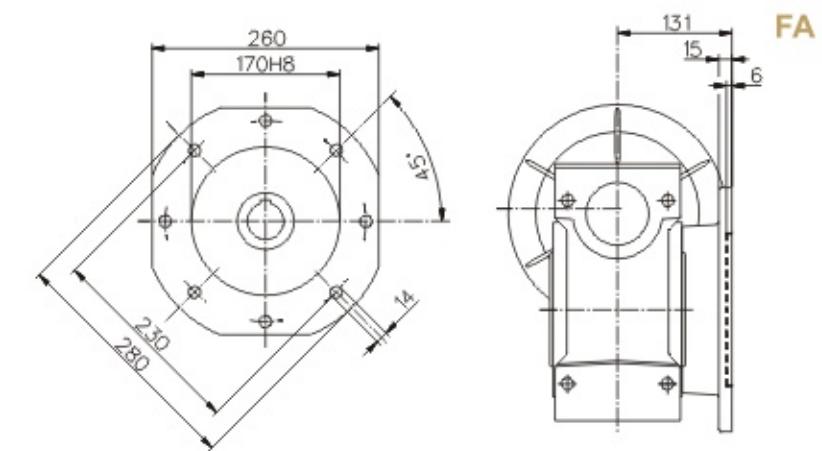
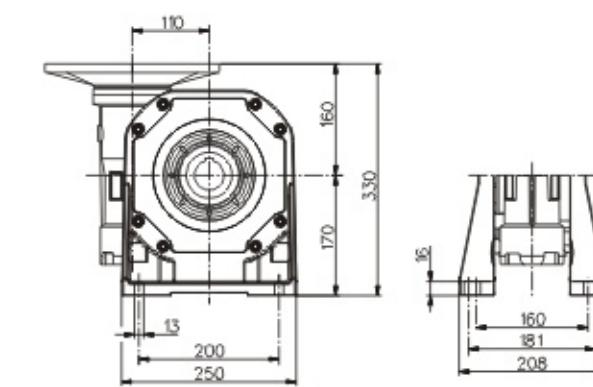
E-VF 105 PBS



E-VF 105 PV

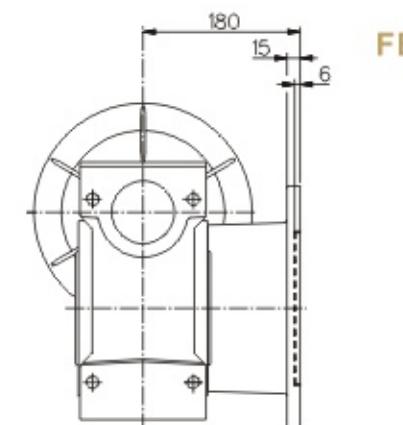
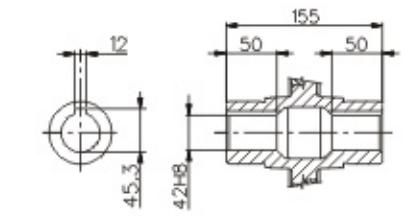
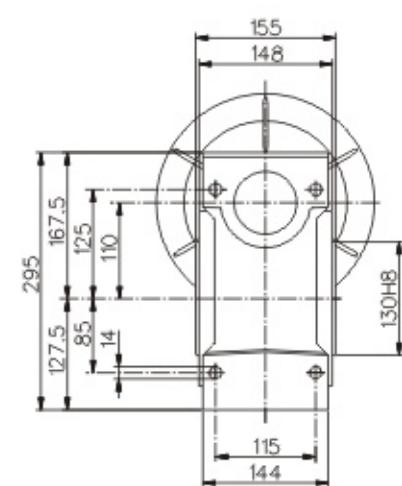


E-VF 105 PVS

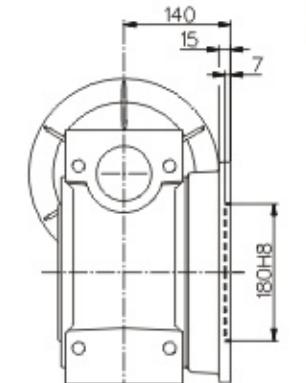
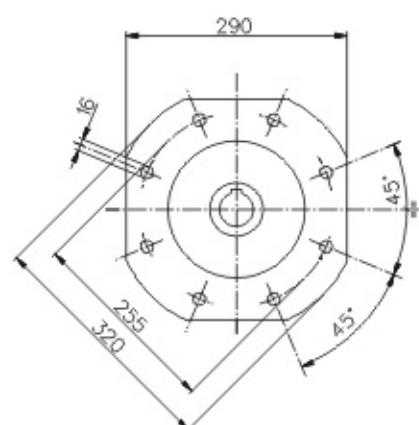
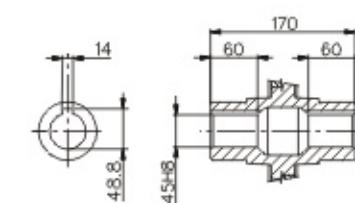
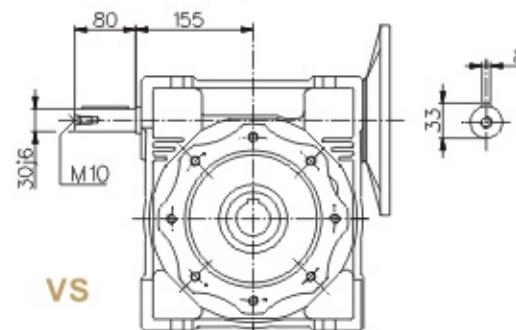
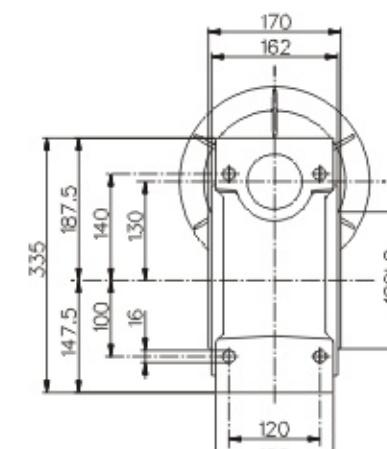
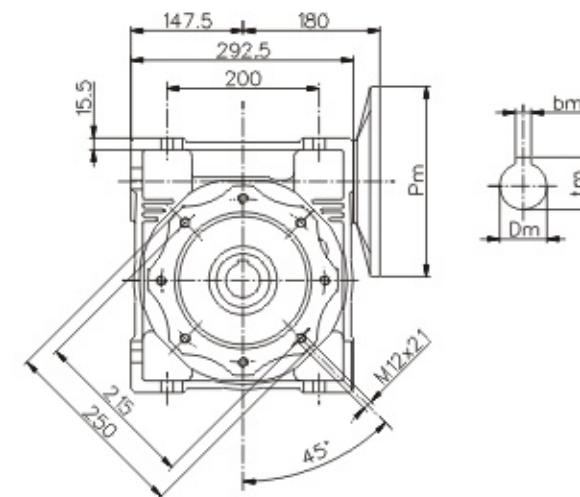


• 不带电机重量35kg
weight without motor—35kg

• 有关电机连接位置的尺寸,请参阅57页的表格。
For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 57.



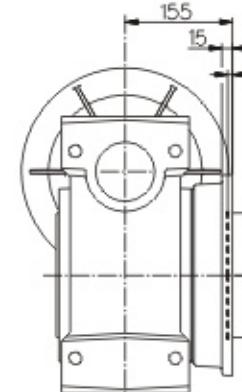
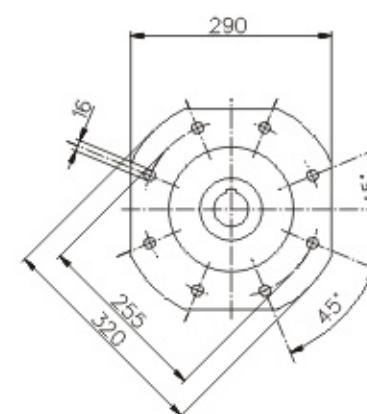
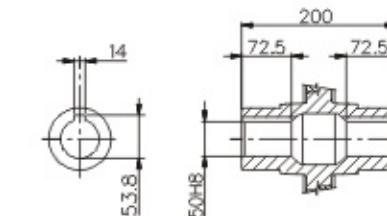
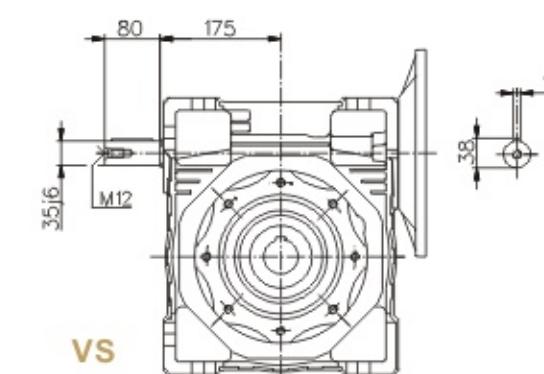
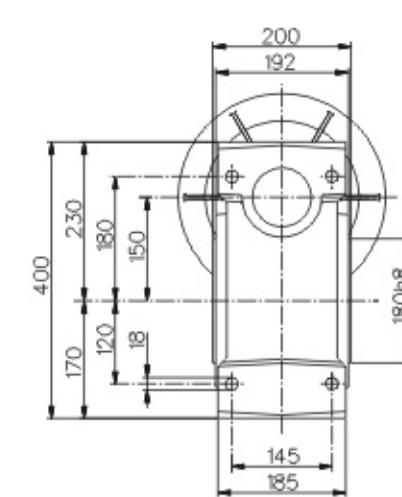
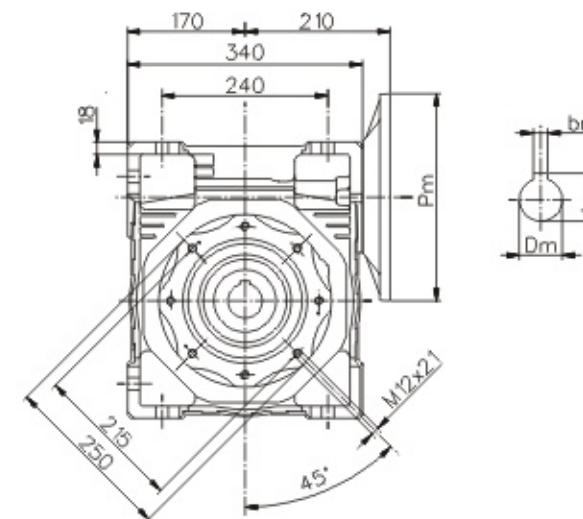
E-VF 130



- 不带电机重量48kg
weight without motor-48kg

- 有关电机连接位置的尺寸, 请参阅57页的表格。
For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 57.

E-VF 150



- 不带电机重量84kg
weight without motor-84kg

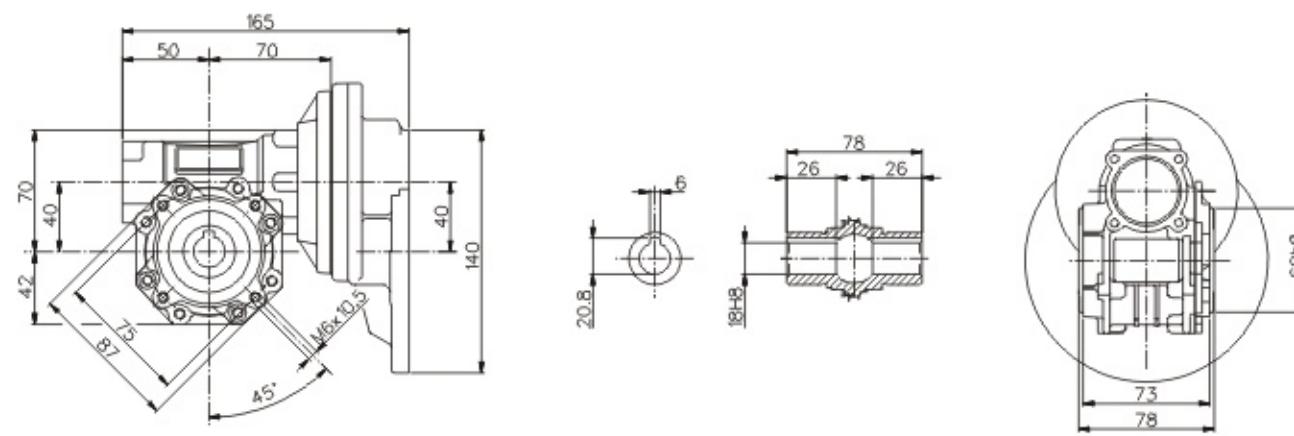
- 有关电机连接位置的尺寸, 请参阅57页的表格。
For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 57.

PC+E-VF 外形尺寸图表 UTLINE DIMENSION SHEET FOR PC+ E-VF

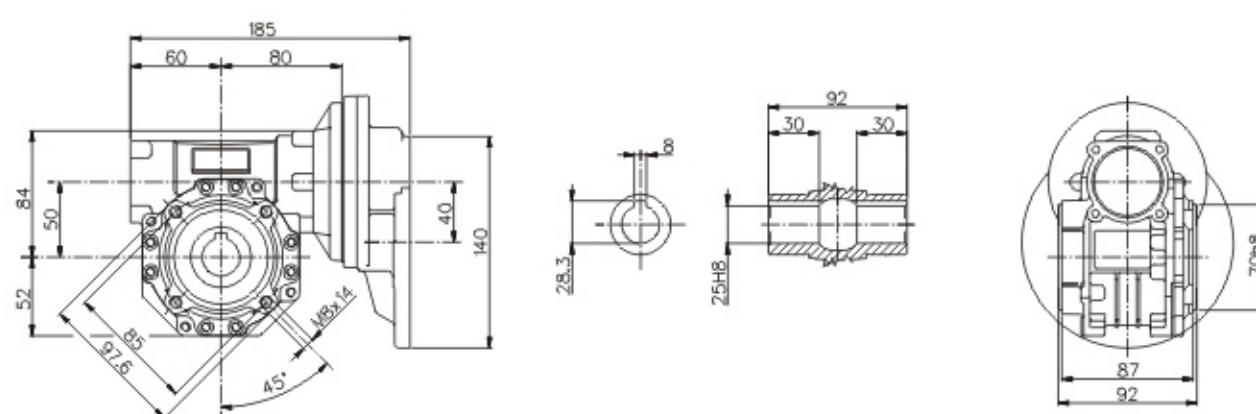
- 有关输出法兰F的尺寸，请参阅有关E-V型号的图纸
For the dimensions of the output flange F, please consider the drawing of the relevant E-V size
- 有关中空轴的尺寸，请参阅有关E-V型号的图纸
For the dimensions of the hollow shafts in option, please consider the drawing of the relevant E-V size
- 有关双延伸轴的尺寸，请参阅有关E-V型号的图纸
For the dimensions of the double extention worm shafts, please consider the drawing of the relevant E-V size

E-VF

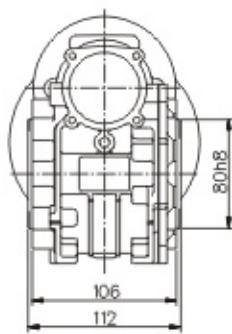
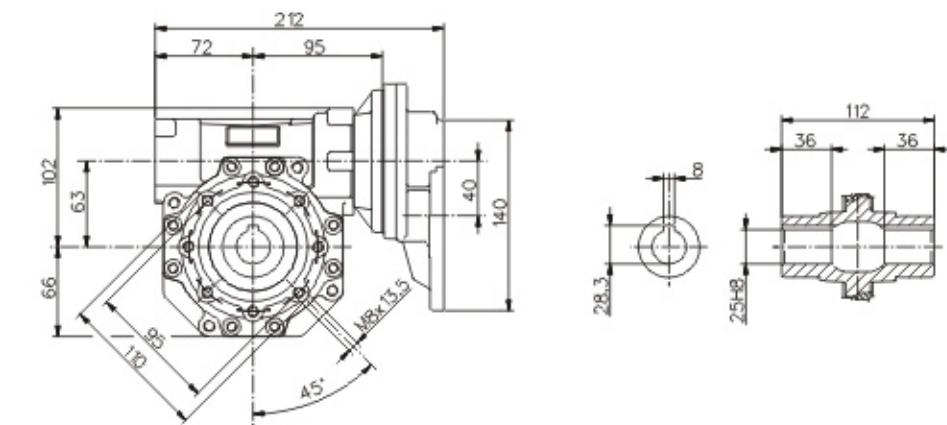
PC 063 - E-VF 040



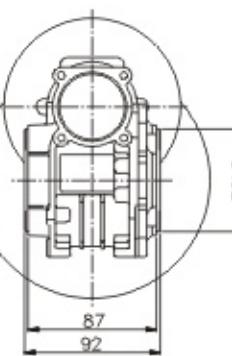
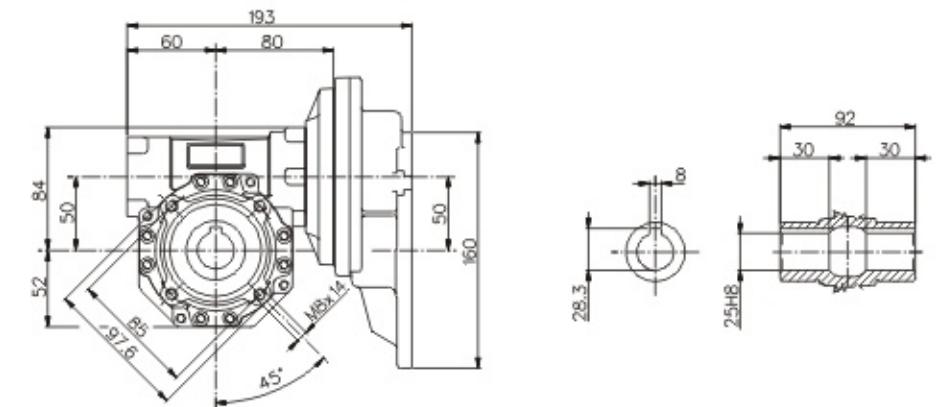
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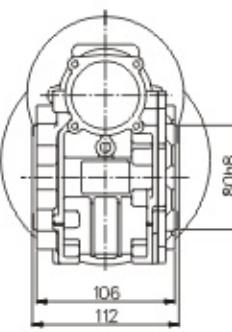
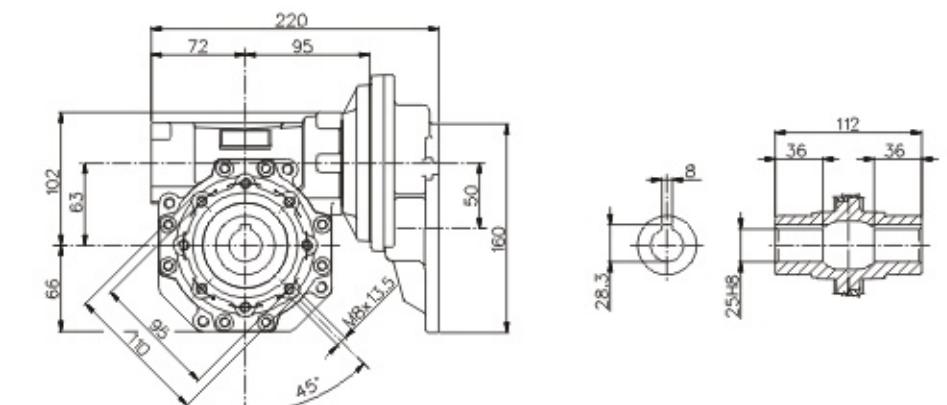
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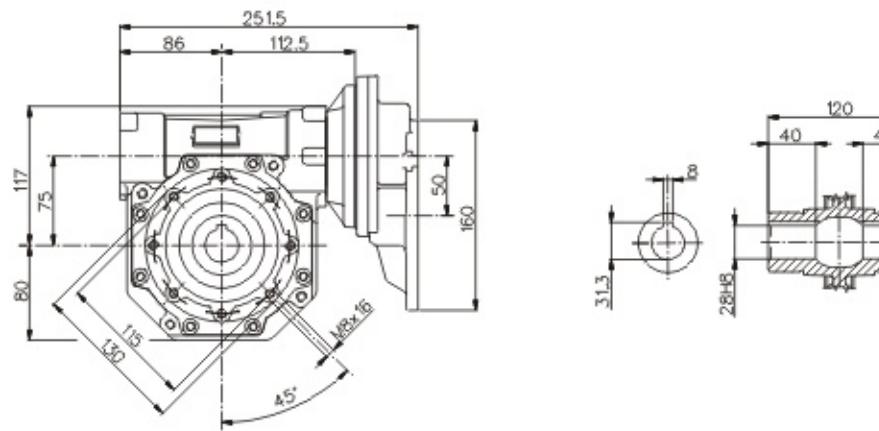
PC 071 - E-VF 050



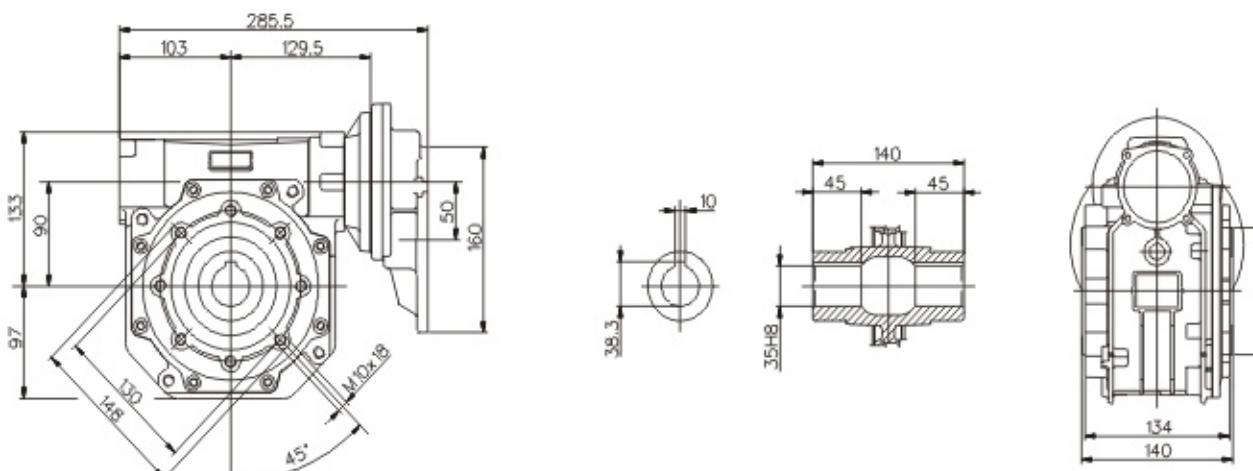
PC 071 - E-VF 063



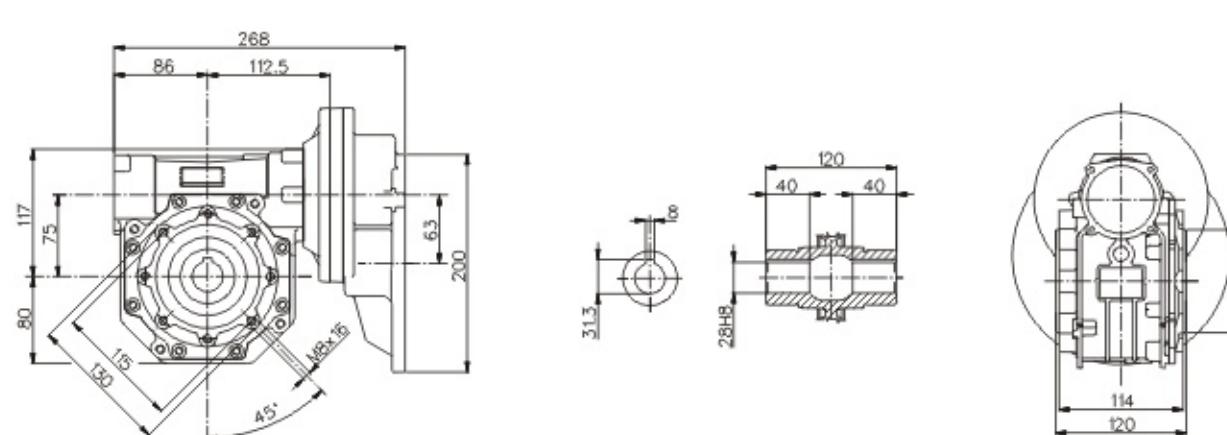
PC 071 - E-VF 075



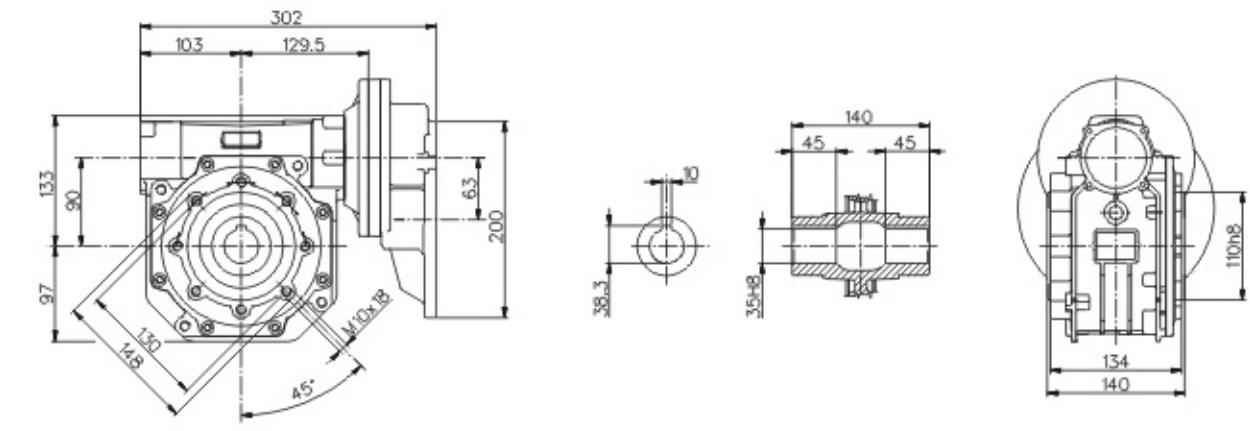
PC 071 - E-VF 090



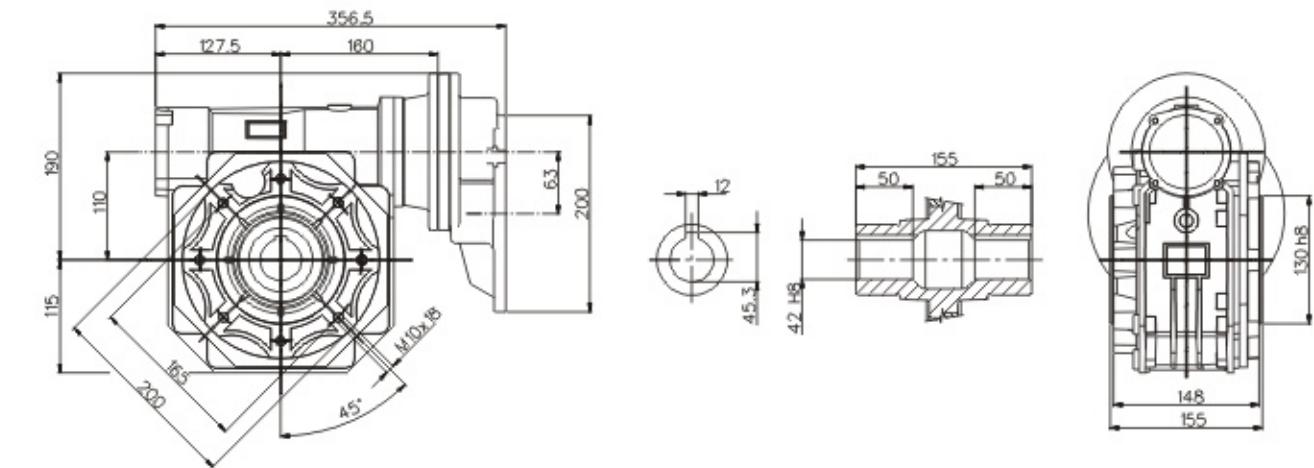
PC 080 - E-VF 075



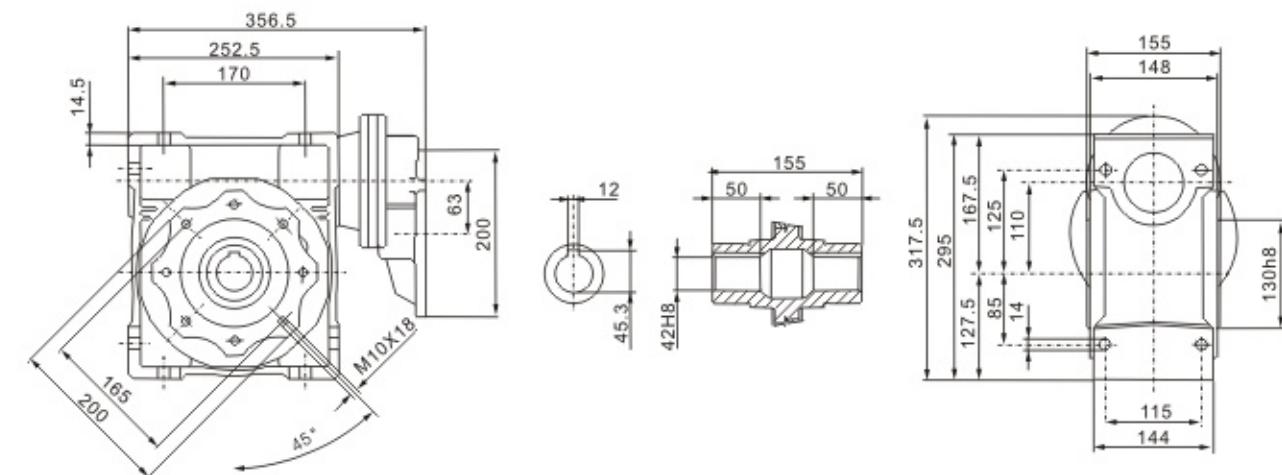
PC 080 - E-VF 090



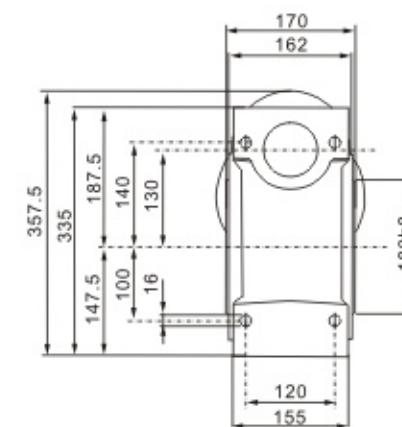
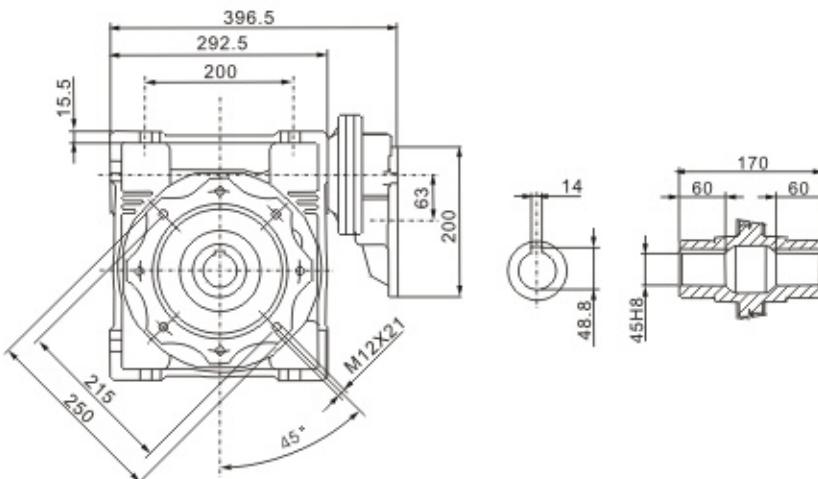
PC 080 - E-VF 105 PC 090 - E-VF 105



PC 080 - E-VF 110 PC 090 - E-VF 110



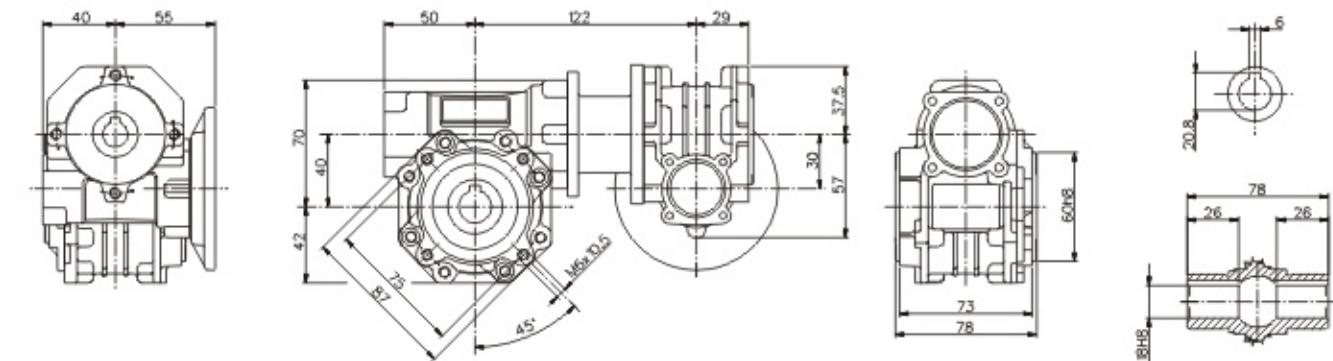
PC 080 - E-VF 130 PC 090 - E-VF 130



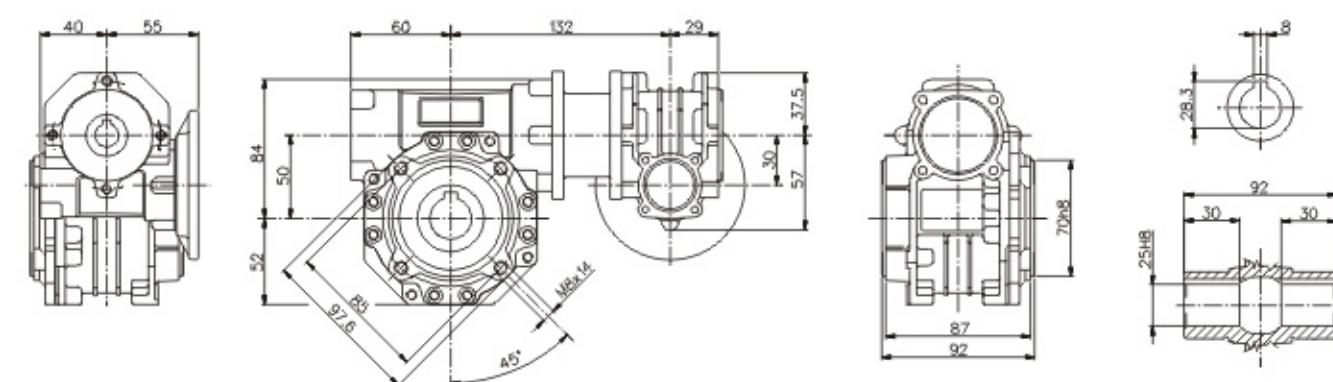
E-VF+E-VF 外形尺寸图表 LINE DIMENSION SHEET FOR E-VF+E-VF

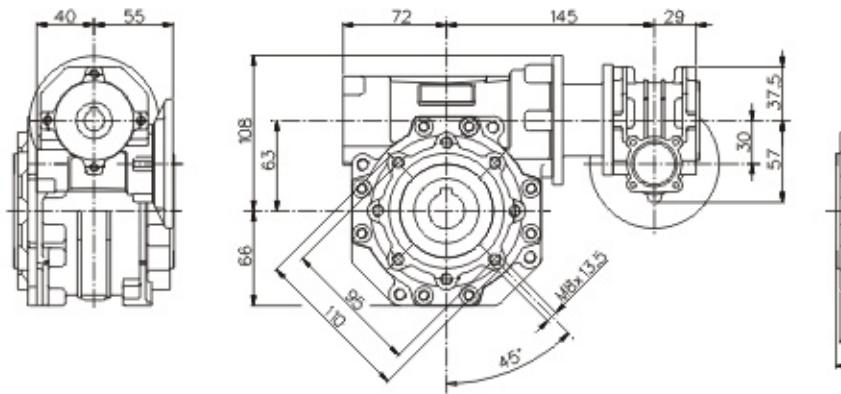
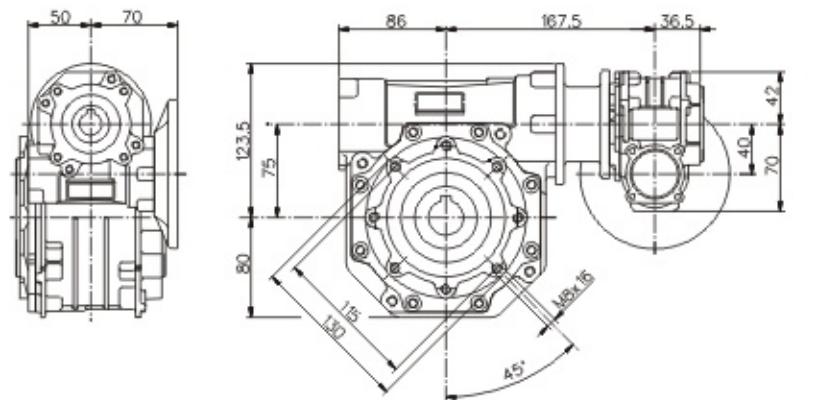
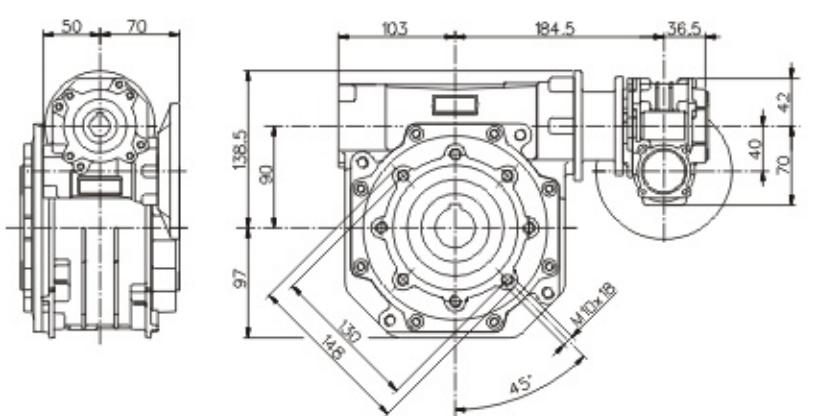
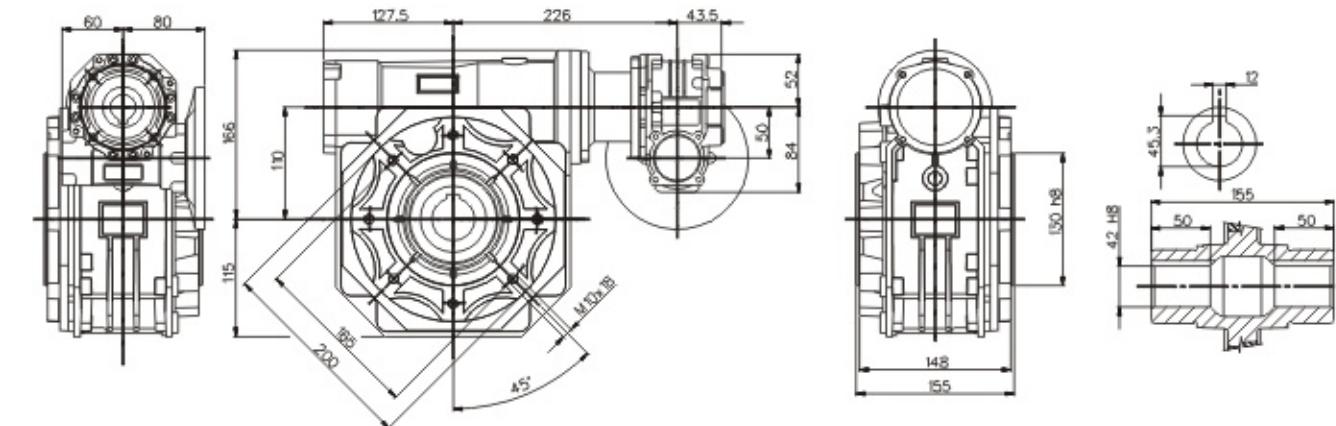
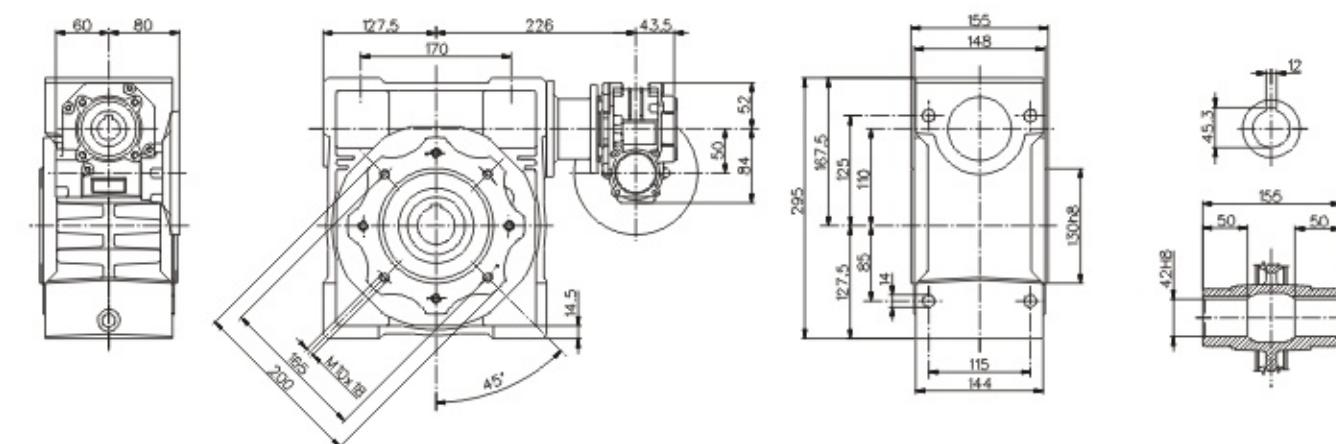
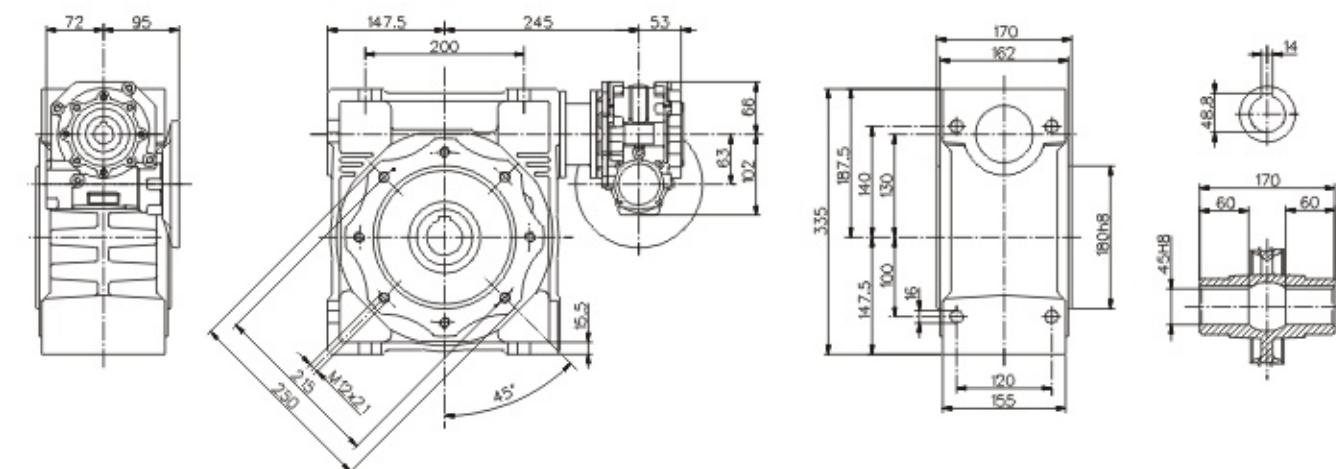
- 有关输出法兰F的尺寸，请参阅有关E-V型号的图纸
For the dimensions of the output flange F, please consider the drawing of the relevant E-V size
- 有关中空轴的尺寸，请参阅有关E-V型号的图纸
For the dimensions of the hollow shafts in option, please consider the drawing of the relevant E-V size
- 有关双延伸轴的尺寸，请参阅有关E-V型号的图纸
For the dimensions of the double extention worm shafts, please consider the drawing of the relevant E-V size

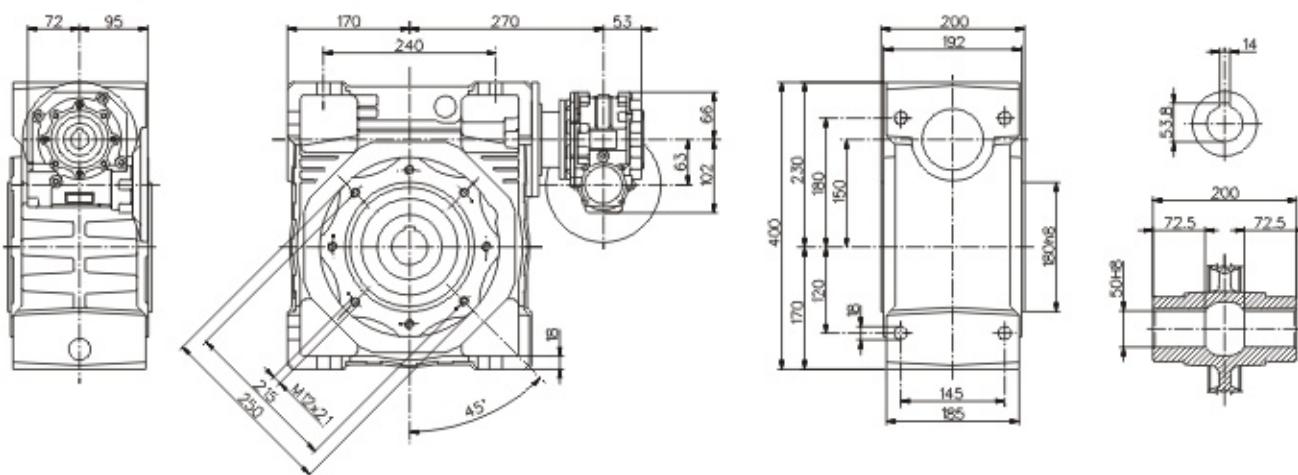
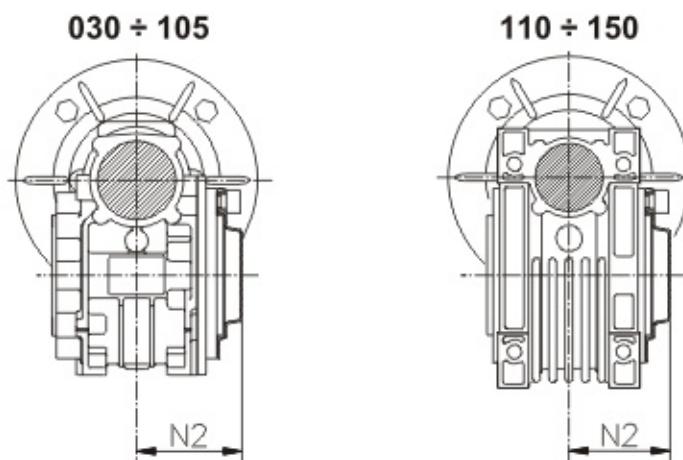
E-VF 030-040



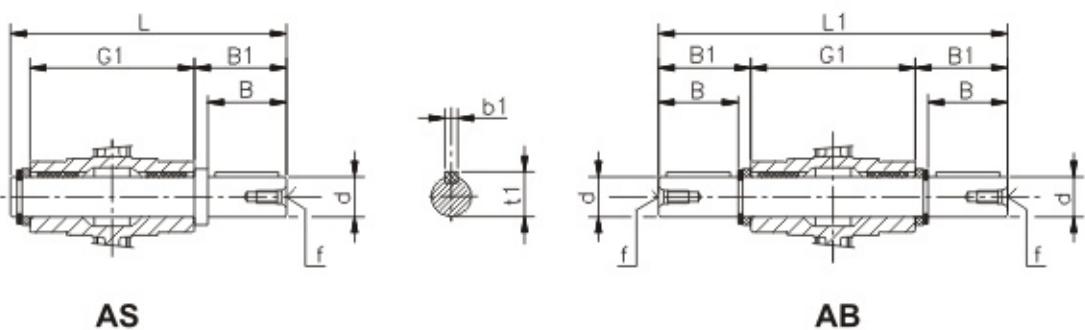
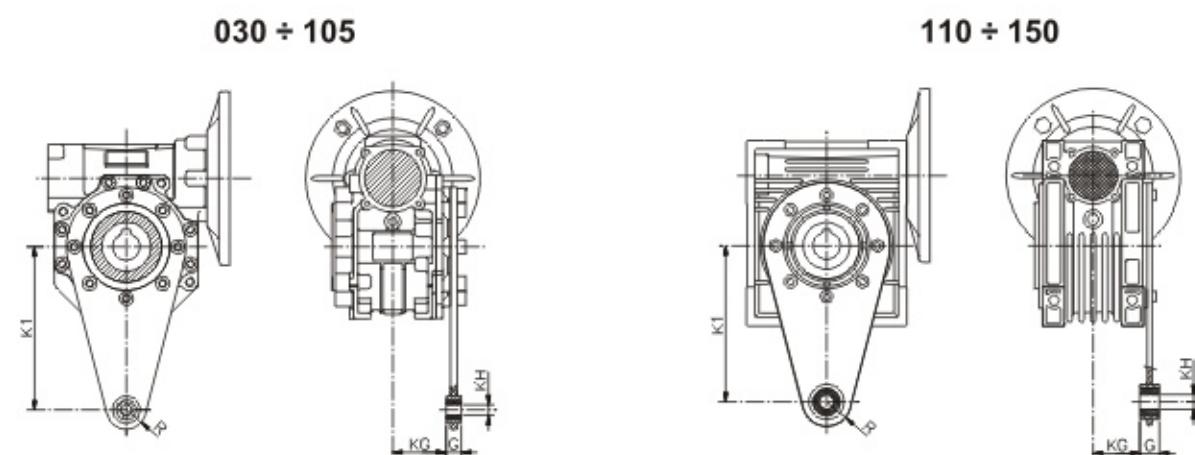
E-VF 030-050



E-VF 030-063**E-VF 040-075****E-VF 040-090****E-VF 050-105****E-VF 050-110****E-VF 063-130**

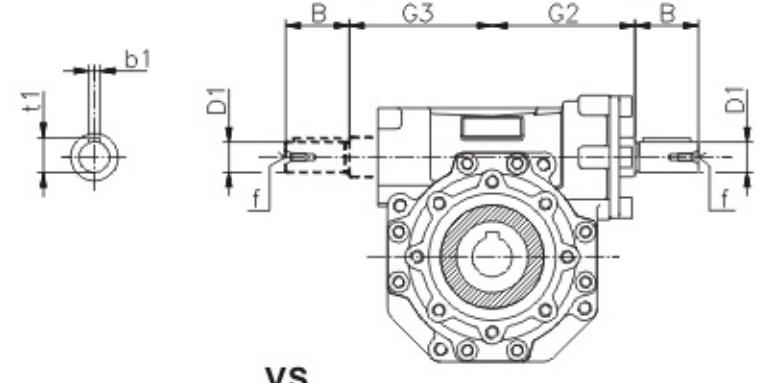
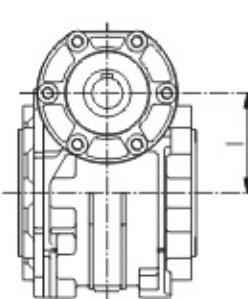
E-VF 063-150**端盖 Cover**

| | N2 |
|-----|-----|
| 030 | 42 |
| 040 | 50 |
| 050 | 58 |
| 063 | 69 |
| 075 | 74 |
| 090 | 86 |
| 105 | 94 |
| 110 | 94 |
| 130 | 102 |
| 150 | 113 |

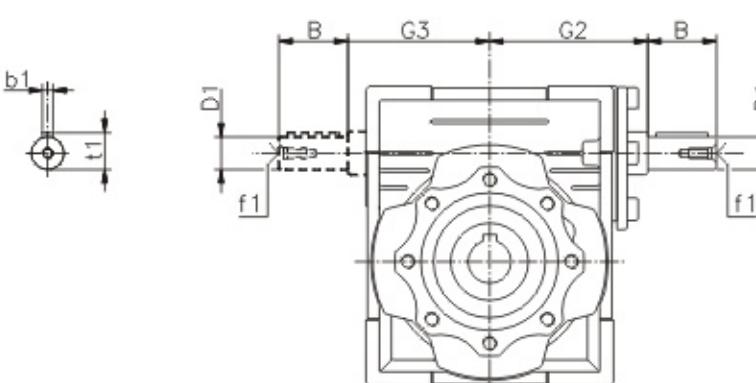
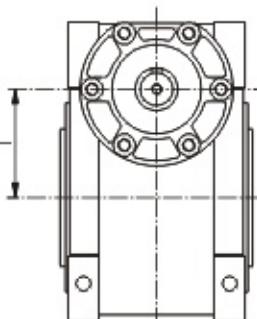
低速轴 Low speed shafts**扭力臂 Torque arm**

| | d | B | B1 | G1 | L | L1 | f | b1 | t1 |
|-----|-------|----|------|-----|-----|-----|-----|----|------|
| 030 | 14 g6 | 30 | 32,5 | 63 | 102 | 128 | M6 | 5 | 16 |
| 040 | 18 h6 | 40 | 43 | 78 | 128 | 164 | M6 | 6 | 20,5 |
| 050 | 25 h6 | 50 | 53,5 | 92 | 153 | 199 | M10 | 8 | 28 |
| 063 | 25 h6 | 50 | 53,5 | 112 | 173 | 219 | M10 | 8 | 28 |
| 075 | 28 h6 | 60 | 63,5 | 120 | 192 | 247 | M10 | 8 | 31 |
| 090 | 35 h6 | 80 | 84,5 | 140 | 234 | 309 | M12 | 10 | 38 |
| 105 | 42 h6 | 80 | 84,5 | 155 | 249 | 324 | M16 | 12 | 45 |
| 110 | 42 h6 | 80 | 84,5 | 155 | 249 | 324 | M16 | 12 | 45 |
| 130 | 45 h6 | 80 | 85 | 170 | 265 | 340 | M16 | 14 | 48,5 |
| 150 | 50 h6 | 82 | 87 | 200 | 297 | 374 | M16 | 14 | 53,5 |

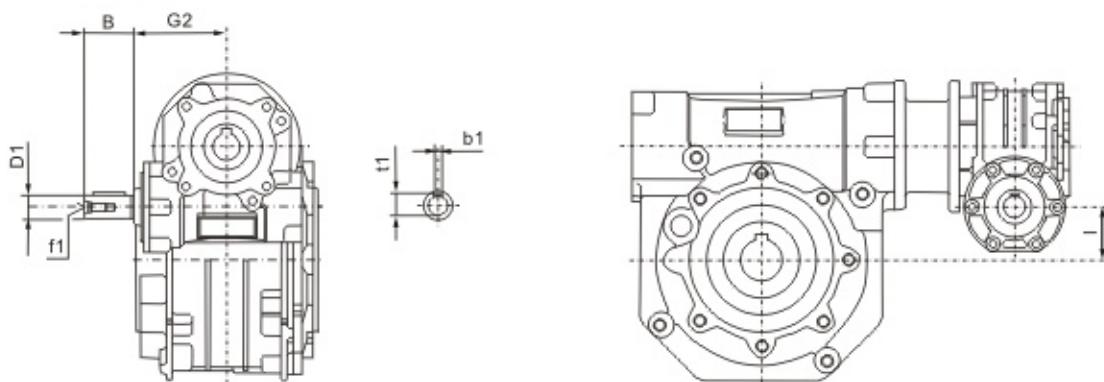
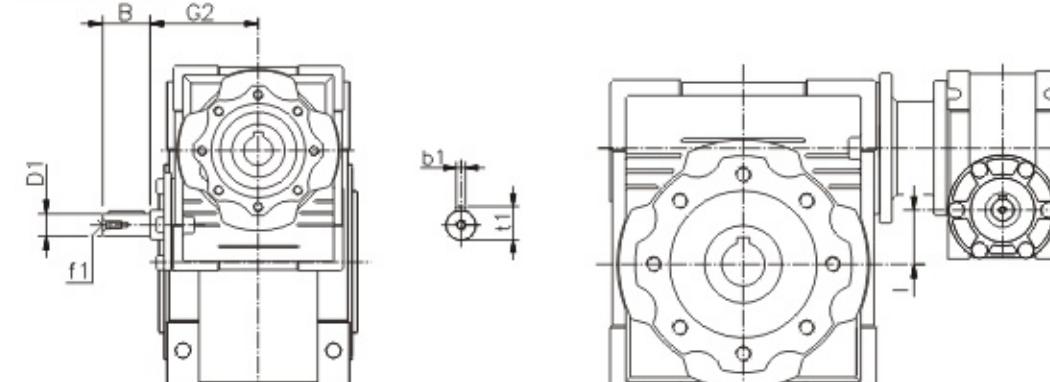
| | K1 | G | KG | KH | R |
|-----|-----|----|------|----|----|
| 030 | 85 | 14 | 24 | 8 | 15 |
| 040 | 100 | 14 | 31,5 | 10 | 18 |
| 050 | 100 | 14 | 38,5 | 10 | 18 |
| 063 | 150 | 14 | 49 | 10 | 18 |
| 075 | 200 | 25 | 47,5 | 20 | 30 |
| 090 | 200 | 25 | 57,5 | 20 | 30 |
| 105 | 250 | 30 | 62 | 25 | 35 |
| 110 | 250 | 30 | 62 | 25 | 35 |
| 130 | 250 | 30 | 69 | 25 | 35 |
| 150 | 250 | 30 | 84 | 25 | 35 |

IVF**VS**

| IVF | 030 | 040 | 050 | 063 | 075 | 090 | 105 |
|------------|------------|------------|------------|------------|------------|------------|------------|
| B | 20 | 23 | 30 | 40 | 50 | 50 | 60 |
| D1 | 9 j6 | 11 j6 | 14 j6 | 19 j6 | 24 j6 | 24 j6 | 28 j6 |
| G2 | 51 | 60 | 74 | 90 | 105 | 125 | 142 |
| G3 | 45 | 53 | 64 | 75 | 90 | 108 | 135 |
| I | 30 | 40 | 50 | 63 | 75 | 90 | 110 |
| b1 | 3 | 4 | 5 | 6 | 8 | 8 | 8 |
| f1 | - | - | M6 | M6 | M8 | M8 | M10 |
| t1 | 10,2 | 12,5 | 16 | 21,5 | 27 | 27 | 31 |

IVF**VS**

| IVF | 110 | 130 | 150 |
|------------|------------|------------|------------|
| B | 60 | 80 | 80 |
| D1 | 28 j6 | 30 j6 | 35 j6 |
| G2 | 142 | 162 | 195 |
| G3 | 135 | 155 | 175 |
| I | 110 | 130 | 150 |
| b1 | 8 | 8 | 10 |
| f1 | M10 | M10 | M12 |
| t1 | 31 | 33 | 38 |

IVF - E-VF**IVF - E-VF**

| IVF-VF | 030-040 | 030-050 | 030-063 | 040-075 | 040-090 | 050-105 |
|---------------|----------------|----------------|----------------|----------------|----------------|----------------|
| B | 20 | 20 | 20 | 23 | 23 | 30 |
| D1 | 9 j6 | 9 j6 | 9 j6 | 11 j6 | 11 j6 | 14 j6 |
| G2 | 51 | 51 | 51 | 60 | 60 | 74 |
| I | 10 | 20 | 33 | 35 | 50 | 60 |
| b1 | 3 | 3 | 3 | 4 | 4 | 5 |
| f1 | - | - | - | - | - | M6 |
| t1 | 10,2 | 10,2 | 10,2 | 12,5 | 12,5 | 16 |

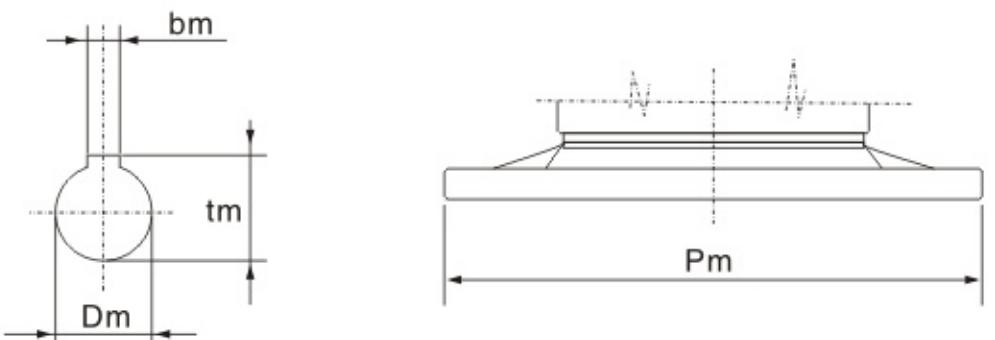
| IVF-VF | 050-110 | 063-130 | 063-150 |
|---------------|----------------|----------------|----------------|
| B | 30 | 40 | 40 |
| D1 | 14 j6 | 19 j6 | 19 j6 |
| G2 | 74 | 90 | 90 |
| I | 60 | 67 | 87 |
| b1 | 5 | 6 | 6 |
| f1 | M6 | M6 | M6 |
| t1 | 16 | 21,5 | 21,5 |

• 对于没有的尺寸, 请参阅有关RV型号的图纸

For the missing dimensions, please consider the drawing of the relevant RV size

• 对于没有的尺寸, 请参阅有关RV型号的图纸

For the missing dimensions, please consider the drawing of the relevant RV size

PAM B5

E-VF

安装 NOTES OF INSTALLATION

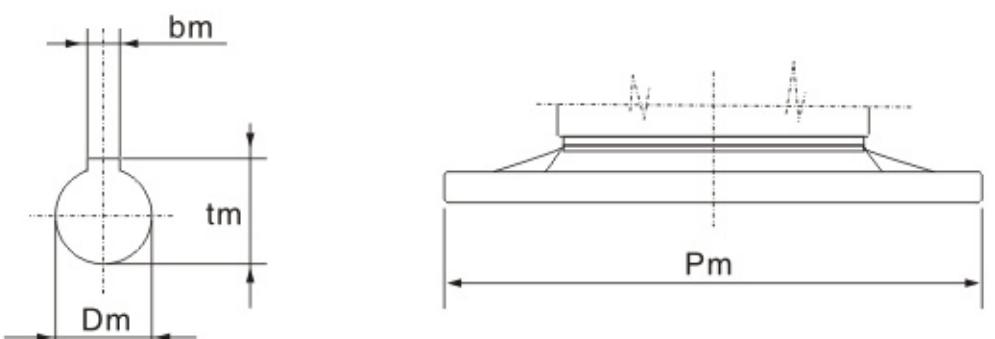
安装减速器时要注意以下一些事项:

- 1、减速器与机械设备装配之前，要检查减速器输出轴的旋转方向是否正确；
- 2、减速器与原动机、设备装配之前，应检查各轴径、孔径、键和键槽的偏差尺寸，避免装配过紧损坏轴承，过松影响动力传递；
- 3、减速器必须牢固地安装在机械设备上，避免有松动或振动；
- 4、链轮、齿轮等传动件装上轴伸时，应尽量靠近轴承，以减少轴伸弯曲应力
- 5、减速机装配电机时，应在蜗杆头部内孔孔壁及键槽处涂抹黄油，避免装配过紧，防止轴孔日久生锈。
- 6、使用各类电机直联型减速机时，若电机重量偏大，应设支撑装置。

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

- 1、Check the correct direction of rotation 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 dimensions 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、Drives such as sprocket wheel and gear must be fitted close to bearing in order to reduce bending stress of hanging shaft
- 5、While assembling motor to the reducer, it is necessary to add butters to the worm shaft input hole and keyway, so as to avoid tightly assembling and rusting when it is used for a long time.
- 6、Supporting unit is required when reducers directly match with motors whose weight is bigger than normal types.

VF (105 ÷ 130) tm= 40,3 (IEC 132)

PAM B14**使用注意事项 NOTES OF OPERATING**

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

2、开机时应逐步施加载荷，不能满载启动

3、所有的减速机配有排气塞，在使用时，把密封塞换成随机附带的排气塞

4、使用时必须检查油位（如油位镜孔或打开油塞）

5、尽可能地避免减速器暴露在烈日阳光下和恶劣环境中；确保电机风扇附近有良好的通风环境，以免影响散热效果；

6、如果减速器存放时间长达4-6个月，应检查油封是否浸润滑油中，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；所有橡胶和透气孔不能沾有油漆；

7、减速器的标准工作环境温度是-5℃至40℃，如果不在这范围时，请与我们技术服务人员联系。

1、Before using, please check carfully whether the reducer model, distance size , ratio , input connecting method, output shaft structure, input and output shaft direction and revolving direction are tight according to requirement. It is better for the input speed of worm shaft not more than 1500r/min.

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

3、All the reduction units are fitted with breather. Please replace the closed plug used for transportation with the breather plug supplied with the unit after installation.

4、Please check the correct level of the lubricant through the indicator or open the plug.

5、Whenever possible, protect the reduction unit against solar radiation and bad weather. Ensure the motor cools correctly by assuring good passage of air from the fan side.

6、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.

7、In the case of ambient temperatures <-5°C or >+40°C call the Technical Service.

附录

| B14 | IEC | | | | | | | |
|-----|------|------|------|------|------|------|------|------|
| | 056 | 063 | 071 | 080 | 090 | 100 | 112 | 132 |
| Pm | 80 | 90 | 105 | 120 | 140 | 160 | 160 | 200 |
| Dm | 9 | 11 | 14 | 19 | 24 | 28 | 28 | 38 |
| bm | 3 | 4 | 5 | 6 | 8 | 8 | 8 | 10 |
| tm | 10,4 | 12,8 | 16,3 | 21,8 | 27,3 | 31,3 | 31,3 | 41,3 |

润滑油选用表 LUBRICANTS OIL CHOSEN TABLE

| | TEMPERATURE | ISO | SHELL | AGIP | ESSO | MOBIL | CASTROL | BP | GMERI | |
|--------------|-------------|-----|-------|---------------|---------------|----------------|---------------|----------------|-----------------|----------------------|
| | | | | | | | | | | |
| E-RV 025~090 | -25 | +50 | VG320 | Tivela Oil460 | Telium VSF320 | S220 | Glygoyle 30 | Alphasyn Pg320 | Emrthpl SGXP320 | 合成油 Synthetic oil |
| E-RV 025~090 | -5 | +40 | VG460 | Omala Oil460 | Blasia 460 | Spartaun Ep450 | Mobilgear 634 | Alpha MAX 450 | Energol GAXP460 | 矿物油 Mineral oil |
| | -15 | +25 | VG220 | Omala Oil220 | Blasia 220 | Spartaun Ep220 | Mobilgear 630 | Alpha MAX 220 | Energol GAXP220 | |
| E-UDL | -25 | +40 | VG32 | A.T.F.DXRON | A.T.F.DXRON | A.T.F.DXRON | A.T.F.220 | TQ.DXRONII | Autran DX | 矿物油 Mineral oil |

润滑油 LUBRICATION

工作环境温度不在表中范围内时，请与我们技术人员联系。

◆当工作环境温度低于-30℃或高于60℃时，要使用特殊材质的油封

◆工作环境温度低于0℃时，必须考虑下列情况：

→选用的电机必须在低温下能正常工作；

→电机的功率必须满足在低温下有较大启动扭矩要求；

→如果减速器箱体的材质是铸造铁，在温度-15℃以下时，箱体会变得很脆，要注意尽量避免撞击；

→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；

◆减速器运行大约5000小时后，应更换润滑油，换油频率按减速器实际运行情况和工作环境条件而定；更换油应注意，不同的油品不能混用；

◆NMRV025、0.30、040、050、063、075、090规格的减速器在出厂时已加注了耐用的合成润滑油（SHELL TEVELA OIL 320），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；

◆减速器NMRV110、130、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了矿物润滑油（广研Ub-3X）；

◆减速器NMRV110、130、150规格的安装方位在下单时要说明，否则润滑油按B3方位提供；

润滑油加注表(单位:升) LUBRICENT FILL QUANTITY(L)

| | B3 | B6 | B7 | B8 | V5 | V6 |
|-----------|-----|-----|------|-------|------|-----|
| E-RV025 | | | | 0.023 | | |
| E-RV030 | | | | 0.05 | | |
| E-RV040 | | | | 0.1 | | |
| E-RV050 | | | | 0.15 | | |
| E-RV063 | | | | 0.3 | | |
| E-RV075 | | | | 0.5 | | |
| E-RV090 | | | | 1 | | |
| E-RV110 | 3 | 2.5 | 2.5 | 2.2 | 3 | 2.2 |
| E-RV130 | 4.5 | 3.5 | 3.5 | 3.3 | 4.5 | 3.3 |
| E-RV150 | 7 | 5.1 | 5.1 | 5.4 | 7 | 5.1 |
| E-UDL0.18 | | | 0.13 | | 0.2 | |
| E-UDL0.37 | | | 0.15 | | 0.25 | |
| E-UDL0.55 | | | 0.33 | | 0.45 | |
| E-UDL0.75 | | | 0.33 | | 0.45 | |
| E-UD1.1 | | | 0.8 | | 1 | |
| E-UD1.5 | | | 0.8 | | 1 | |
| E-UD2.2 | | | 1.2 | | 1.2 | |
| E-UD3.0 | | | 1.2 | | 1.2 | |
| E-UD4.0 | | | 1.2 | | 1.2 | |

◆In case of ambient temperatures not envisaged in the table , call our technical service .

In the case of temperature under -30°C or over 60°C it is necessary to use oil seals with special material.

◆For operating ranges with temperatrues under 0°C it is necessary to consider the following:

→The motors need to be suitable for operation at the envisaged ambient temperature.

→The power of the electric motor needs to be adequate for exceeding the higher starting torques required.

→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.

→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 5000 hours. This period depends on the type of service and the environment where the reduction unit works. The synthetic oil and the mineral oil can not be combined used in the reduction units.

◆The reduction units size 025~030~040~050~063~075~090 are supplied complete with lubricant for life , synthetic oil (SHELL TEVELA OIL 320), 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 condition of use.

◆The reduction units size 110 、 130 and 150 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 size 110 、 130 and 150 it is necessary to specify the pcsition , otherwise the reduction units are supplied with the quantity of oil relating to pos.B3.

减速器的故障原因与排除 THE CAUSE FOR BREAKDOWN AND SETTLEMENT OF REDUCER

| 故障内容 Breakdown | 可能的原因 Possible cause | 排除的方法 The way of settlement |
|---|--|---|
| 无负载状态下，电机不转 The motor does not run in case of no load | 停电 Power off | 检查电源，询问电力公司 Check power, consult with power company |
| | 连接线断裂 Connecting wire break | 检查接线 Check wire |
| | 开关接触不良 The switch does not contact well | 修理或更换 Repair or replace |
| | 电机线圈断裂 The motor coil break | 送专业工厂修理 Repair it in special factory |
| | 三相电机接单相电压 3 phase motor connect single phase voltage | 确认电压及接线方式 Confirm voltage and connecting ways |
| | 单相电机未接电容器 Single phase motor does not connect condenser | 连接电容器 Connect condenser |
| | 单相电机起动器动作不良 Single motor's starter does not work well | 送专业工厂修理 Repair it at special factory |
| | 齿轮、轴心及轴承损坏 Gear, axis and bearing are damaged | 送专业工厂修理 Repair it at special factory |
| | | |
| 负载时，电机不转 The motor does not run in case of loading | 电压过低 Voltage is too low | 检查电源线是否过长或过细 Check to see if the wire is too long or too thin |
| | 齿轮损坏 Gear is damaged | 送专业工厂修理 Repair it in special factory |
| | 超负载运转 Work with overload | 减少负荷 Discharge load |
| 异常发热 Very hot | 超负载运转 Work with overload | 减少负荷 Discharge load |
| | 起动、停止过多 Start and stop too many | 减少使用频率 Reduce using frequency |
| | 轴承磨损 Bearing is damaged | 修理或更换 Repair or replace |
| | 电压过高或过低 Voltage is too high or too low | 确认电压是否正常 Confirm to see if the voltage is normal |
| 噪声太大 Loud noise | 声音大且持续：轴承损坏，齿轮磨损 If the noise is loud and continuous, the bearing is damaged or the gear damaged | 送专业工厂修理 Repair it in special factory |
| | 偶尔声音大：齿轮损伤，有异物卡住 If the noise is loud and continuous, the gear must be damaged or something else block | 与用户服务机构联系 Contact with the service institution |
| 振动太大 Severe vibration | 齿轮、轴承磨损 Gear or bearing is worn out | 送专业工厂修理 Repair it in special factory |
| | 固定不良，螺丝松动 Screw is loose | 重新锁紧 Re-lock |
| 异常的不稳定的运转噪声 Abnormal, unsteady, running noise | 油已污染或油量不足 The oil is contaminated or short of | 检查油颜色、浓度、油位 Check the color, density and level of oil |
| 漏油 -在电机法兰处 -在机油封处 -在减速机法兰处 -在输出部分的油封处 Leakage at flange and gasket | 螺丝松动 The screw is loose | 重新锁紧 Re-lock |
| | 密封圈损坏 The gasket is damaged | 替换之与用户服务机构联系 Replace it and contact service institution |
| 通气塞处漏油 Leakage at ventilating plug | 油量太多 The oil is too much | 校正油量 Correct the oil amount |
| | 通气塞安装不正确 The plug is not well installed | 正确安装通气塞 Install it properly |
| | 频繁冷启动 (油产生泡沫) 或油位太高 Cold start too often(the oil produce foam) oil level is too high | 将通气塞换成排气阀 Change the plug with ventilating valve |
| 电机转动时输出轴不转 The output shaft does not move when the motor work | 减速机轴键连接破坏 The connection between shaft and key is damaged | 送专业工厂修理 Repair it in special factory |

六、E-SWL 系列蜗轮螺杆升降机 E-SWL SERIES WORM GEAR SCREW JACK

概述 Brief introduction



E-SWL系列蜗轮螺杆升降机是通过蜗轮传动螺杆完成提升、下降、推进、翻转等功能，是一种基础起重部件，已列为JB/T8809-1998标准。广泛地用于机械、冶金、水利、化工、医疗、文化、卫生等各个行业，具有结构紧凑、体积小、重量轻、安装方便、使用灵活、可靠性好、稳定性高、使用寿命长等优点，可以用电动机或其它动力直接带动，也可以手动。本系列蜗轮螺杆升降机可以自锁，承载能力2.5t~120t,最高输入转速1500r/min,最大提升速度2.7m/min,有不同的结构型式和装配方式，工作环境温度在-20~100°C之间，提升高度按用户要求制造。

E-SWL series worm gear screw jack is a basis jack-up part, accomplish the functions such as lifting, drop, push and inverting through worm gear drives screw. has been in the standard JB/T8809-1998. It is applied to the fields such as machinery, metallurgy, water conservancy, chemical industry, medical treatment, culture and hygienism etc, it has many advantages, such as compact configuration, small size, lightweight, convenient installation, flexible operation, high reliability and stability, also has a long service life and more connection form etc, can be driven directly by motor or other power or manual. has self-locking ability, load capacity ranging from 2.5t~120t, input speed up to 1500rpm and lifting speed up to 2.7m/min, ambient temperature: -20~100°C, has different configuration form and assembly type, and the lifting height can highly customized according to user's demand.

型式 Type

2.1 结构型式 Configuration form

1型 -蜗轮与螺杆为螺纹联接，螺杆作轴向运动。

2型 -蜗轮与螺杆为键联接，螺杆上配螺母，螺杆上的螺母作轴向运动。

1 type - worm gear and screw is threaded and coupled and screw does axial motion

2 type - worm gear joins screw by key, the screw assembled with nut, and this nut does axial motion.

2.2 装配型式 Assembly type

升降机每种结构型式又分为两种装配型式
Every configuration form has two assembly type

1型结构型式有两种装配型式

1 type configuration has two assembly type

A型：螺杆工作端在上

B型：螺杆工作端在下

A type: the screw work end at top

B type: the screw work end at lower side

2型结构型式有两种装配型式

2 type configuration has two assembly type

A型：螺杆工作端在上，螺母上顶式下拉

B型：螺杆工作端在下，螺母下压式上拉

A type: screw work end at top and nut uplift or pull it down

B type: screw work end at lower side and nut press it down or pull it up

2.3 螺杆头部型式 Screw head form

1型结构型式螺杆头部分为I型(圆柱型)、II型(法兰型)、III型(螺纹型)和IV型(扁头型)四种型式(见图1)

2型结构型式螺杆头部分为I型(圆柱型)和III型(螺纹型)两种型式(见图2)。

1 type configuration form,screw head form is:1 type (cylinder), 2type (flange), 3 type (thread), 4 type(flat head),see chart

2 type configuration form,screw head form is:1 type (cylinder), 2type (thread),see chart 2.

2.4 传动比 Drive ratio

升降机蜗轮杆传动分为两种传动比,即普通(P)和慢速(M)。

The jack worm gear gear drive ratio divided into two types: normal(P) and slow (M).

2.5 提升承载力 t: Lifting load capacity t

2.5 5 10 15 20 25 35 50 100 120
2.5 5 10 15 20 25 35 50 100 120

2.6 螺杆的防护 Protection of screw

1型升降机螺杆的防护分为:基本型,防旋转型(F)和带防护罩型(Z);

2型升降机螺杆的防护分为:基本型和带防护罩型(Z)。

protection of 1 type jack screw divided as normal,protective rotation (F) and protective cover attached(Z)

protection of 2 type jack screw divided as normal and protective cover attached (Z).

2.7 标记示例 Mark sample

升降机

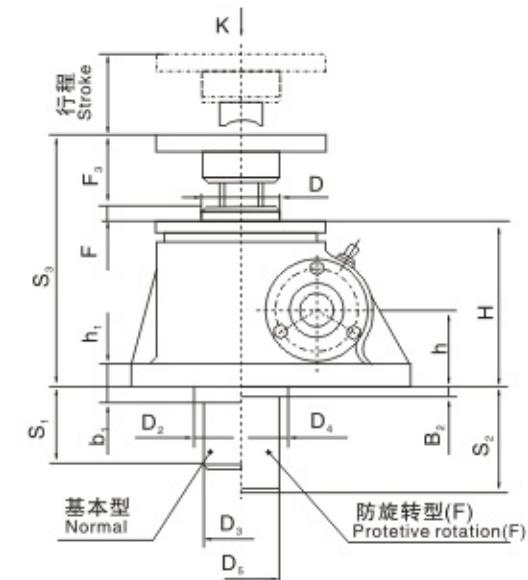
E-SWL2.5 M- 1 A II- 500 FZ

螺杆防护型式代号(见2.6)
Screw protection type code
行程, mm
stroke
螺杆头部型式代号
screw head form code
装配型式代号
assembly type code
结构型式代号
configuration form code
传动比代号(慢速, 普通P不注)
drive ratio code(slow,normal not marked)
型号(见表1和表2)
type(see table 1 and table 2)

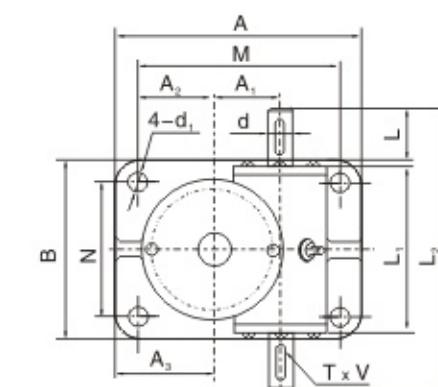
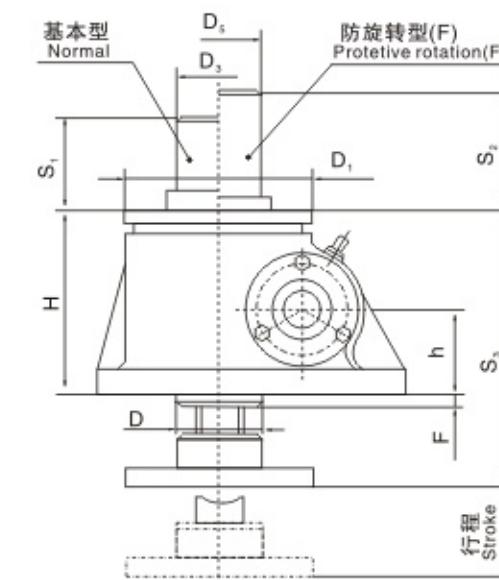
外形及安装尺寸 Outline and installing size

3.1 1型升降机的外型结构尺寸见图1和表1 1 type jack outline size, refer to chart 1 and table 1

装配型式 A
Assembly type A



装配型式 B
Assembly type B



螺杆头部型式 Screw head form

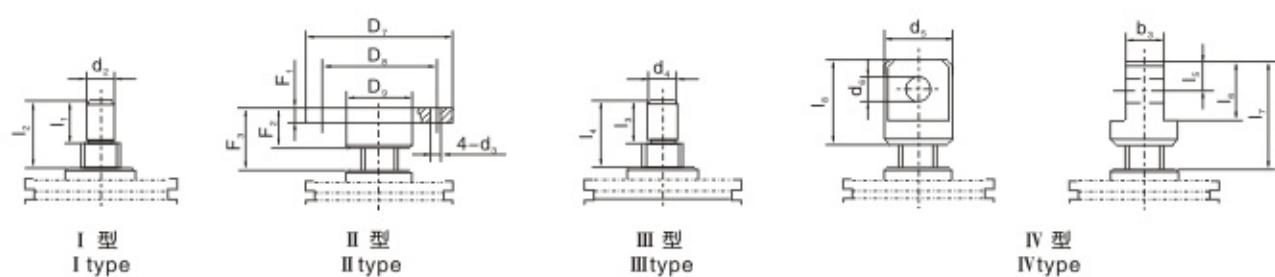


图1 1型结构形式
1 type configuration type

表1 table1

| 型号 type | E-SWL2.5 | E-SWL5 | E-SWL10/15 | E-SWL20 | E-SWL25 | E-SWL35 | E-SWL50 | E-SWL100 | E-SWL120 | mm |
|---------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------|
| S ₁ | 行程+20 stroke+20 | |
| S ₂ | 行程+110 stroke+110 | 行程+110 stroke+110 | 行程+150 stroke+150 | 行程+190 stroke+190 | 行程+205 stroke+205 | 行程+250 stroke+250 | 行程+285 stroke+285 | 行程+350 stroke+350 | 行程+400 stroke+400 | |
| S ₃ | 150.5 | 193 | 230 | 262 | 317 | 350 | 416 | 550 | 570 | |
| A | 165 | 212 | 235 | 295 | 350 | 430 | 475 | 527.1 | 526 | |
| B | 120 | 155 | 200 | 215 | 260 | 280 | 500 | 526 | 622 | |
| M | 135 | 168 | 190 | 240 | 280 | 360 | 385 | 622 | 412 | |
| N | 90 | 114 | 155 | 160 | 190 | 210 | 406 | 412 | 508 | |
| H | 97 | 130 | 150 | 176 | 217 | 240 | 280 | 360 | 360 | |
| h | 45 | 61.5 | 70 | 87 | 102 | 115 | 121 | 155 | 155 | |
| h ₁ | 12 | 14 | 16 | 20 | 25 | 30 | 32 | 38 | 42 | |
| d(k6) | 16 | 20 | 25 | 28 | 32/34★ | 38 | 38 | 45 | 48 | |
| d ₁ | 14 | 17 | 21 | 28 | 35 | 35 | 45 | 48 | 48 | |
| 键GB1096 keyGB1096 | 5×5×32 | 6×6×45 | 8×7×45 | 8×7×45 | 10×8×50 | 10×8×70 | 10×8×90 | 14×9×90 | 14×9×90 | |
| L | 32 | 45 | 52 | 52 | 58 | 80 | 100 | 100 | 100 | |
| L ₁ | 110.5 | 132 | 172 | 213.5 | 221 | 265 | 310 | 380 | 380 | |
| L ₂ | 190 | 228 | 280 | 322 | 355 | 430 | 558 | 610 | 610 | |
| D | 48 | 65 | 80 | 100 | 130 | 150 | 170 | 240 | 240 | |
| D ₁ | 98 | 122 | 150 | 185 | 205 | 260 | 300 | 420 | 420 | |
| D ₂ | 70 | 90 | 100 | 120 | 150 | 180 | 220 | 310 | 310 | |
| D ₃ | 45 | 60 | 76 | 83 | 114 | 121 | 145 | 180 | 220 | |
| D ₄ | 98 | 110 | 130 | 170 | 200 | 210 | 260 | 370 | 370 | |
| AMxAM | 50×50 | 60×60 | 80×80 | 80×80 | 120×120 | 150×150 | 150×150 | 200×200 | 200×200 | |
| A ₁ | 45 | 56 | 67 | 72 | 97 | 120 | 135 | 190 | 190 | |
| A ₂ | 50 | 58 | 63.5 | 95 | 95 | 135 | 160 | 166 | 166 | |
| A ₃ | 65 | 80 | 86 | 122.5 | 130 | 170 | 205 | 223 | 223 | |
| A ₄ | - | - | - | - | - | - | - | 206 | 206 | |
| b ₁ | 20 | 25 | 30 | 35 | 35 | 35 | 45 | 60 | 60 | |
| b ₂ | 12 | 12 | 12 | 15 | 19 | 20 | 25 | 30 | 30 | |
| F | 8.5 | 12 | 6.5 | 6 | 8 | 10 | 20 | 36.5 | 40 | |
| I | d _z (k6) | 20 | 25 | 40 | 50 | 70 | 80 | 95 | 130 | 150 |
| | I ₁ | 30 | 40 | 50 | 58 | 63 | 80 | 90 | 120 | 140 |
| | I ₂ | 45 | 51 | 73.5 | 80 | 92 | 100 | 120 | 150 | 170 |
| 螺杆头部型式 Screw head form | D ₇ | 98 | 122 | 150 | 185 | 205 | 260 | 300 | 370 | 400 |
| | D ₈ | 75 | 85 | 105 | 140 | 155 | 200 | 225 | 280 | 310 |
| | D ₉ | 40 | 50 | 65 | 90 | 100 | 130 | 150 | 200 | 230 |
| | d ₃ | 14 | 17 | 21 | 26 | 27 | 33 | 39 | 48 | 48 |
| | F ₁ | 12 | 18 | 20 | 20 | 25 | 30 | 35 | 75 | 80 |
| | F ₂ | 30 | 40 | 50 | 60 | 63 | 80 | 90 | 120 | 140 |
| | F ₃ | 45 | 51 | 73.5 | 80 | 92 | 100 | 120 | 150 | 170 |
| III | d ₄ | M22×1.5-6g | M30×2-6g | M42×2-6g | M48×2-6g | M70×3-6g | M80×3-6g | M95×3-6g | M130×4-6g | M150×4-6g |
| | I ₃ | 30 | 39 | 50 | 60 | 63 | 80 | 90 | 120 | 140 |
| | I ₄ | 45 | 51 | 73.5 | 80 | 92 | 100 | 120 | 150 | 170 |
| IV | d ₅ | 50 | 65 | 90 | 110 | 130 | 150 | 180 | 220 | 260 |
| | d _{6(H8)} | 25 | 35 | 50 | 60 | 70 | 80 | 80 | 90 | 95 |
| | b ₃ | 30 | 42 | 60 | 75 | 90 | 105 | 120 | 160 | 180 |
| | I ₅ | 25 | 37.5 | 50 | 60 | 70 | 80 | 80 | 90 | 100 |
| | I ₆ | 50 | 75 | 100 | 120 | 140 | 160 | 160 | 180 | 200 |
| | I ₇ | 85 | 117 | 153.5 | 175 | 204 | 240 | 270 | 330 | 360 |
| | I ₈ | 70 | 105 | 130 | 150 | 175 | 220 | 240 | 300 | 335 |

★Φ32为E-SWL25所要求的轴头尺寸，Φ34为QWL25所要求的轴头尺寸。

★Φ32 is the shaft head size demanded by E-SWL25, Φ34 is the shaft head size demanded by QWL25.

3.2 2型升降机的外形结构尺寸见图2和表2 2 type jack outline size refer to chart 1 and table 2

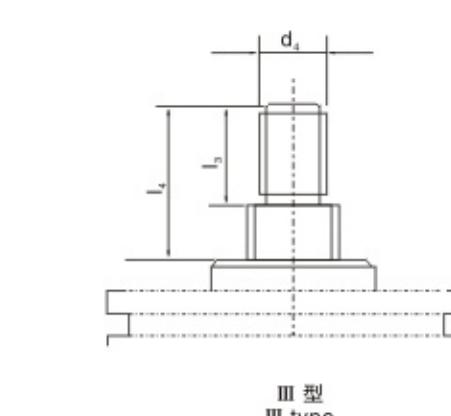
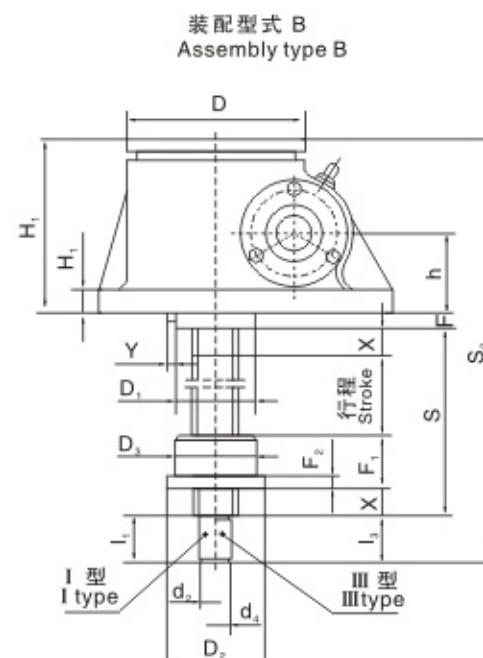
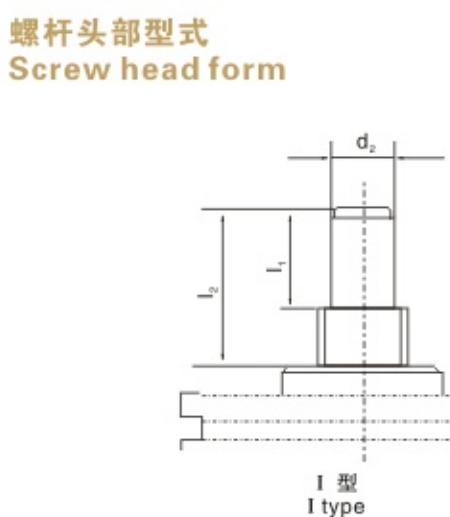
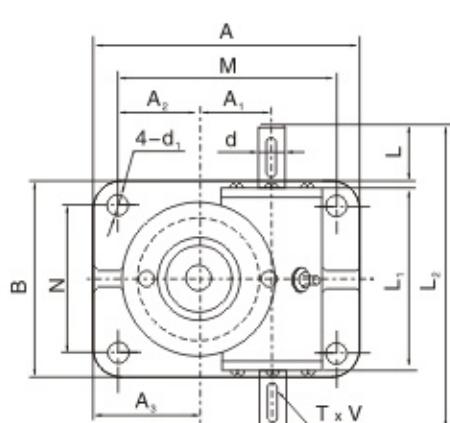
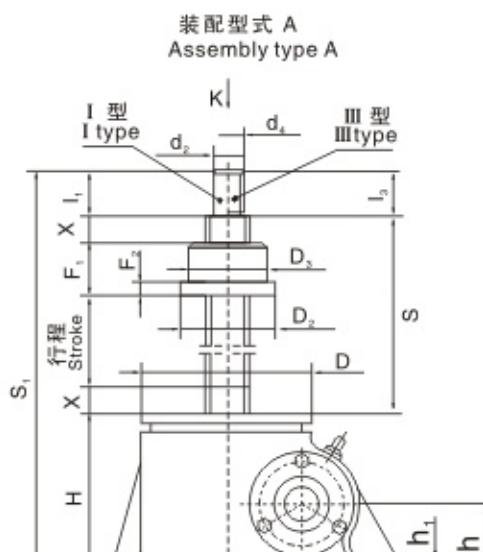
图21 2型结构形式
2 type configuration type

表2 table2

| 型号 type | E-SWL2.5 | E-SWL5 | E-SWL10/15 | E-SWL20 | E-SWL25 | E-SWL35 | E-SWL50 | E-SWL100 | E-SWL120 | mm |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------|
| S | 行程+85 stroke+85 | 行程+100 stroke+100 | 行程+125 stroke+125 | 行程+150 stroke+150 | 行程+170 stroke+170 | 行程+205 stroke+205 | 行程+250 stroke+250 | 行程+320 stroke+320 | 行程+330 stroke+330 | |
| S ₁ | 行程+215 stroke+215 | 行程+270 stroke+270 | 行程+335 stroke+335 | 行程+404 stroke+404 | 行程+476 stroke+476 | 行程+535 stroke+535 | 行程+603 stroke+603 | 行程+815 stroke+815 | 行程+845 stroke+845 | |
| S ₂ | 行程+238 stroke+238 | 行程+300 stroke+300 | 行程+359 stroke+359 | 行程+430 stroke+430 | 行程+519 stroke+519 | 行程+580 stroke+580 | 行程+685 stroke+685 | 行程+880 stroke+880 | 行程+910 stroke+910 | |
| A | 165 | 212 | 235 | 295 | 350 | 430 | 475 | 526 | 526 | |
| B | 120 | 155 | 200 | 215 | 260 | 280 | 500 | 622 | 622 | |
| M | 135 | 168 | 190 | 240 | 280 | 360 | 385 | 412 | 412 | |
| N | 90 | 114 | 155 | 160 | 190 | 210 | 406 | 508 | 508 | |
| H | 100 | 131 | 160 | 190 | 226 | 250 | 290 | 375 | 375 | |
| H ₁ | 97 | 131 | 150 | 181 | 211 | 250 | 280 | 360 | 360 | |
| h | 45 | 61.5 | 70 | 87 | 102 | 115 | 121 | 155 | 155 | |
| h ₁ | 12 | 14 | 16 | 20 | 25 | 30 | 32 | 38 | 42 | |
| d(k6) | 16 | 20 | 25 | 28 | 34/32★ | 38 | 38 | 45n6 | 48m6 | |
| d ₁ | 14 | 17 | 21 | 28 | 35 | 35 | 45 | 48 | 48 | |
| 键GB1096 keyGB1096 | 5×5×32 | 6×6×45 | 8×7×45 | 8×7×45 | 10×8×50 | 10×8×70 | 10×8×90 | 14×9×90 | 14×9×90 | |
| L | 32 | 45 | 52 | 52 | 56 | 80 | 100 | 100 | 100 | |
| L ₁ | 110.5 | 132 | 172 | 213.5 | 221 | 265 | 314 | 380 | 380 | |
| L ₂ | 190 | 228 | 280 | 322 | 355 | 430 | 558 | 610 | 610 | |
| D | 98 | 122 | 150 | 185 | 205 | 260 | 300 | 420 | 420 | |
| D ₁ | 68 | 83 | 110 | 140 | 160 | 180 | 200 | 260 | 260 | |
| A ₁ | 45 | 56 | 67 | 72 | 97 | 120 | 135 | 190 | 190 | |
| A ₂ | 50 | 58 | 63.5 | 95 | 95 | 135 | 160 | 166 | 166 | |
| A ₃ | 65 | 80 | 86 | 122.5 | 130 | 170 | 205 | 223 | 223 | |
| A ₄ | - | - | - | - | - | - | 206 | 206 | | |
| F | 26 | 30 | 34 | 39 | 52 | 45 | 65 | 80 | 80 | |
| 安全裕度X safety tolerance | 20 | 20 | 25 | 25 | 25 | 30 | 40 | 50 | 50 | |
| Y | 3 | 3 | 1 | 3 | 3 | 4 | 5 | 6 | 6 | |
| 活动 螺母 moveable | D ₂ | 80 | 87 | 110 | 120 | 155 | 190 | 220 | 300 | 330 |
| | D _{1(h9)} | 50 | 70 | 90 | 90 | 130 | 150 | 180 | 240 | 260 |
| | F ₁ | 45 | 60 | 75 | 100 | 120 | 145 | 170 | 220 | 270 |
| | F ₂ | 15 | 18 | 25 | 30 | 35 | 50 | 70 | 80 | |
| 螺杆头型式 screw head form | I D _{2(k6)} | 20 | 25 | 40 | 50 | 70 | 80 | 95 | 130 | 150 |
| | I L ₁ | 30 | 40 | 50 | 60 | 80 | 80 | 108 | 127 | 130 |
| | III d ₄ | M22×1.5-6g | M30×2-6g | M42×2-6g | M48×2-6g | M70×3-6g | M80×3-6g | M95×3-6g | M130×4-6g | M150×4-6g |
| ★Φ32为E-SWL25所要求的轴头尺寸，Φ34为QWL25所要求的轴头尺寸。 | | | | | | | | | | |
| ★Φ32 is the shaft head size demanded by E-SWL25,Φ34 is the shaft head size demanded by QWL25. | | | | | | | | | | |

性能参数 Performance parameter

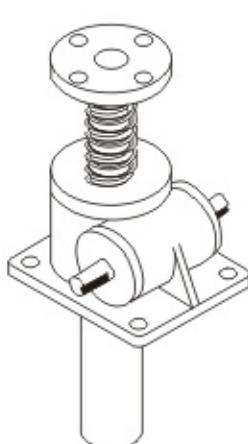
4.1 升降机的主要性能参数见表3 parameter of jack, refer to table 3

表3 table 3

| 型号 type | E-SWL2.5 | E-SWL5 | E-SWL10/15 | E-SWL20 | E-SWL25 | E-SWL35 | E-SWL50 | E-SWL100 | E-SWL120 |
|--|----------|--------|--------------------|---------|---------------------|---------------------|----------|----------|----------|
| 最大起升为kN max lifting strength kN | 25 | 50 | 100/150 | 200 | 250 | 350 | 500 | 1000 | 1200 |
| 最大拉力kN max pull force kN | 25 | 50 | 99 | 166 | 250 | 350 | 500 | 1000 | 1200 |
| 螺杆螺纹尺寸 accrew thread size | Tr30×6 | Tr40×7 | Tr58×12 | Tr65×12 | Tr90×16 | Tr100×18 | Tr120×20 | Tr160×23 | Tr180×25 |
| 蜗轮蜗杆传动比 (p) drive ratio of worm and gear(p) | 6:1 | 6:1 | 7 $\frac{2}{3}$:1 | 8:1 | 10 $\frac{2}{3}$:1 | 10 $\frac{2}{3}$:1 | 12:1 | 12:1 | 12:1 |
| 蜗杆每转行程mm (p) worm stroke per revolution mm(p) | 1.0 | 1.167 | 1.565 | 1.5 | 1.5 | 1.69 | 1.87 | 1.92 | 2.083 |
| 蜗轮蜗杆转动比 (M) rotational speed ratio of worm and gear(M) | 24:1 | 24:1 | 23:1 | 24:1 | 32:1 | 32:1 | 32:1 | 36:1 | 36:1 |
| 蜗杆每转行程mm(M) worm stroke per revolution mm(M) | 0.250 | 0.292 | 0.5 | 0.5 | 0.5 | 0.56 | 0.625 | 0.638 | 0.694 |
| 蜗杆扭距N.m worm torqueN.m | 见图5~13 | | | | | | | | |
| 拉力负荷时螺杆 的最大伸长mm max elongation of screw under pull load | 1500 | 2000 | 2500 | 3000 | 3500 | 4000 | 5500 | 6500 | 7000 |
| 侧向力负荷时螺 杆的最大伸长mm max elongation of screw under side force load | 见图4~10 | | | | | | | | |
| 压力负荷时螺杆 的最大伸长mm max elongation of screw under pressure load | 见图11~17 | | | | | | | | |
| 最大许用功率kW max safety power kW | 1.45 | 2.59 | 3.47 | 4.02 | 5.38 | 13.06 | 13.9 | 28.5 | 62 |
| 普通速比 (p) 总效率% general efficiency under normal speed ratio | 23 | 21 | 23 | 21 | 19 | 18 | 15 | 13 | 12 |
| 慢速比 (M) 总效率% genaral efficiency under slow speed ratio | 14 | 12 | 15 | 13 | 11 | 11 | 11 | 10 | 8 |
| 润滑油量kg lubrication volume | 0.1 | 0.25 | 0.5 | 0.75 | 1.1 | 1.9 | 2.2 | 2.5 | 2.5 |
| 不加行程的质量kg weight without stroke | 7.3 | 16.2 | 25 | 36 | 70.5 | 87 | 420 | 1010 | 1350 |
| 螺杆每100mm的重量kg screw weight per 100mm | 0.45 | 0.82 | 1.67 | 2.15 | 4.15 | 5.20 | 7.45 | 13.6 | 17.3 |
| 注：1.最大许用功率是在环境温度为20°C,工作持续率为20%h, 蜗杆转速为1500r/min的条件下的参数。 2.总效率为油脂润滑条件下的参数。 3.工作环境温度-20°C~+80°C。 4.在静止状态一般可以自锁。 Note: 1.the max safety power means this parameter got in this condition; ambient temperature is 20°C ,continuous running rate is 20%;h, worm rotational speed is 1500r/min 2.general efficiency is a parameter in the grease-lubricated case 3.ambient temperature is -20~+80°C 4.Can be self-locked in stillness state | | | | | | | | | |

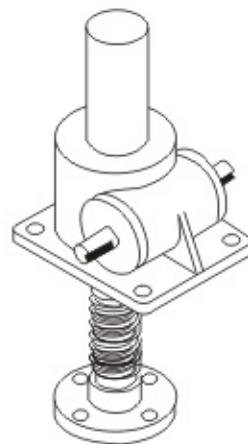
装配型式与结构型式 Assembly type and configuration form

1型结构
1 type configuration



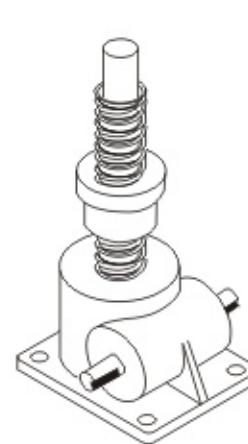
装配型式A
assembly type A

2型结构
2 type configuration



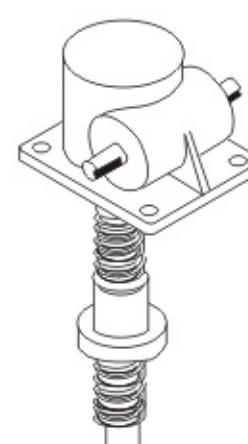
装配型式B
assembly type B

2型结构
2 type configuration



装配型式A
assembly type A

2型结构
2 type configuration



装配型式B
assembly type B

6.2 选择方法二 Method 2

表5~表13是各种型号螺杆传动的许用起升速度、扭矩和功率，其参数适用于环境温度为20°C,工作持续率为20%/h或30%/10min的条件下；对粗线范围内的参数，使用时升降机会产生过热，应尽量避免选用，否则必须采取有效措施。根据螺杆起升负荷及起升速度，按照下列公式计算升降机的驱动功率，再查表5~表13，查出所需升降的型号。

Table 5-table 13 is all the sorts of safety lifting speed, torque and power of screw drive,these parameters suitable for this condition; ambient temperature is 20°C,continuous running rate is 20%/h or 30%/10min.those within the thick lines,according to them to select the jack,the jack will overheat,so should avoid selecting speed,calculate the jack's drive power as follow formula,then refer to table 5-table 13,tind out the jack type.

示例 以6.1示例的已知条件进行选择
Example refer to example 6.1

第一步：升降机驱动功率的计算：
First step: calculate drive power

$$\text{驱动功率: } P = \frac{F_a \times v}{60 \eta}$$

$$\text{Drive power: } P = \frac{F_a \times v}{60 \eta}$$

式中:
In formula:

P——驱动功率, kW
drive power,kW
Fa——起升力(或拉力), KN
lifting strength
V——起升速度, m/min
lifting speed,m/min
 η ——传递总效率(见表3)
general efficiency of transmission(see table 3)

$$\text{驱动扭矩: } Mt = 9550 \times \frac{P}{n}$$

$$\text{Drive torque: } Mt = 9550 \times \frac{P}{n}$$

式中:
In formula:

Mt——驱动扭矩, N.m
drive torque
P——驱动功率, kW
drive power
n——转速, r/rpm
rotational speed

$$\text{根据公式: 驱动功率 } P = \frac{20 \times 0.45}{60 \times 0.21} = 0.714$$

$$\text{According to the formula: drive power } P = \frac{20 \times 0.45}{60 \times 0.21} = 0.714$$

升降机的选择 Jack selection

升降机的主要选择参数为：起升负荷(KN)、螺杆行程(mm)、起升速度(m/min)。

下面给出两种选择方法：

The main parameter to select jacks as so: lifting load(KN), screw stroke(mm), lifting speed (m/min)

Two methods as follows

6.1 选择方法一 (仅作选型参考) Method 1 (for refers only)

图11~图17给出了允许弯曲力矩下，螺杆长度与极限负荷的关系。根据螺杆行程和起升负荷，查图12~图17，查出所需升降机的型号。再根据查出的升降机型号和起升负荷查表4(表4是各种型号在不同的起升负荷下所允许的起升速度)，若查出的起升速度满足不了要求，则须选用型号大一规格的升降机，直至满足要求。

Chart 11-chart 17 show the relation between the screw length and limit load under the safety flexural torque,according to screw stroke and lifting load,see chrt 12-chart 17,find out the jack type needed.Then according to the jack type and lifting load table 4 check out if the type meets the need,if the type can't meet the need,then should select higher grade one,till meets the need.(table 4 shows the safety lifting speed of every type under the different lifting load)

示例 已知：起升负荷为F=20KN，螺杆行程为200mm，起升速度V=0.45m/min，试求所需的升降机。

选择升降机：根据F=20KN，行程200mm，查图12，选择SWL2.5升降机，查表4起升速度V=0.3m/min，

满足不了要求。若选择SWL5升降机，查表4起升速度V=0.7m/min,满足要求，应选择SWL5型升降机。

Example Known conditions: lifting load F=20KN,screw stroke is 200mm, lifting speed

V=0.45m/min,selecte the proper jack

Selection process:according to F=20KN,stroke is 200mm,refer to chart 12,select SWL2.5 type,ther refer

to table 4,lifting speed V=0.3m/min which can't meet the need,so select SWL5 type,refer to table 4

again,the lifting speed V=0.7m/min,meet the need,so should select SWL5 type.

续表4 continuous 4

第二步：查表5，蜗杆在500r/min, 起升速度为0.5m/min, 起升负荷为20KN时, 许用功率为0.72kW,在粗线范围内, 不选用。

Second step: refer to table 5 , worm rotational speed is 500r/min , lifting speed is 0.5m/min, lifting load is 20kn, this moment, the safety power is 0.72kw, within thick lines, so can't select it.

第三步：查表6，蜗杆在500r/min,起升速度为0.583m/min, 起升负荷为20KN时, 许用功率为0.9kW,满足要求, 应选择 E-SWL5型升降机。

Third step: refer to table 6,worm rotational speed is 500r/min, lifting speed is 0.5m/min, lifting load is 20kn, this moment ,the safety power is 0.9kw, meet the need, so should select E-SWL type.

表4 table 4

| 型号 type | 起升力F KN lifting strength | 普通速比 normal speed ratio | | 慢速比 slow speed ratio | |
|------------|-----------------------------|---------------------------------|--|--|---|
| | | 起升速度V m/min lifting speed | 蜗杆转速n r/min worm rotational speed | 起升速度V _n m/min lifting speed | 蜗杆转速n _n r/min worm rotational speed |
| E-SWL2.5 | 25 | <0.05 | <50 | <0.0125 | <50 |
| | 20 | 0.3 | 300 | 0.15 | 600 |
| | 15 | 0.5 | 500 | 0.1875 | 750 |
| | 10 | 0.75 | 750 | 0.25 | 100 |
| | 5 | 1.5 | 1500 | 0.45 | 1800 |
| | 2.5 | 1.8 | 1800 | 0.45 | 1800 |
| E-SWL5 | 50 | <0.0583 | <50 | <0.0146 | <50 |
| | 40 | 0.35 | 300 | 0.0175 | 600 |
| | 30 | 0.35 | 300 | 0.219 | 750 |
| | 20 | 0.7 | 600 | 0.292 | 1000 |
| | 10 | 1.166 | 1000 | 0.525 | 1800 |
| | 5 | 2.1 | 1800 | 0.525 | 1800 |
| E-SWL10/15 | 100 | 0.288 | 200 | 0.15 | 300 |
| | 75 | 0.432 | 300 | 0.25 | 500 |
| | 50 | 0.432 | 300 | 0.375 | 750 |
| | 35 | 0.864 | 600 | 0.5 | 1000 |
| | 20 | 1.44 | 1000 | 0.9 | 1800 |
| | 10 | 2.592 | 1800 | 0.9 | 1800 |
| | 5 | 2.592 | 1800 | 0.9 | 1800 |
| | 200 | 0.15 | 100 | 0.1 | 200 |
| E-SWL20 | 160 | 0.15 | 100 | 0.15 | 200 |
| | 120 | 0.3 | 200 | 0.15 | 300 |

| | | | | | |
|----------|------|--------|------|--------|------|
| E-SWL20 | 100 | 0.3 | 200 | 0.25 | 500 |
| | 75 | 0.45 | 300 | 0.375 | 750 |
| | 50 | 0.75 | 500 | 0.5 | 1000 |
| | 25 | 1.5 | 1000 | 0.9 | 1800 |
| E-SWL25 | 250 | 0.075 | 50 | 0.025 | 50 |
| | 200 | 0.15 | 100 | 0.1 | 200 |
| | 160 | 0.15 | 100 | 0.15 | 300 |
| | 130 | 0.3 | 200 | 0.15 | 300 |
| | 100 | 0.45 | 300 | 0.25 | 500 |
| | 75 | 0.45 | 300 | 0.3 | 600 |
| | 50 | 0.9 | 600 | 0.5 | 1000 |
| E-SWL35 | 350 | <0.075 | <50 | <0.025 | <50 |
| | 300 | 0.075 | 50 | 0.05 | 100 |
| | 250 | 0.15 | 100 | 0.15 | 300 |
| | 200 | 0.3 | 200 | 0.15 | 300 |
| | 150 | 0.3 | 200 | 0.25 | 500 |
| | 100 | 0.6 | 400 | 0.375 | 750 |
| | 50 | 1.125 | 750 | 0.5 | 1000 |
| E-SWL50 | 500 | <0.08 | <50 | <0.03 | <50 |
| | 450 | 0.08 | 50 | 0.03 | 50 |
| | 400 | 0.16 | 100 | 0.06 | 100 |
| | 300 | 0.24 | 150 | 0.188 | 300 |
| | 200 | 0.48 | 300 | 0.25 | 400 |
| | 100 | 0.8 | 500 | 0.625 | 1000 |
| E-SWL100 | 1000 | <0.08 | <50 | <0.032 | <50 |
| | 900 | 0.08 | 50 | 0.032 | 50 |
| | 800 | 0.159 | 100 | 0.064 | 100 |
| | 600 | 0.238 | 150 | 0.096 | 150 |
| | 400 | 0.317 | 200 | 0.192 | 300 |
| | 200 | 0.635 | 400 | 0.639 | 1000 |
| E-SWL120 | 1200 | 0.104 | 50 | 0.035 | 50 |
| | 1000 | 0.208 | 100 | 0.069 | 100 |
| | 900 | 0.417 | 200 | 0.139 | 200 |
| | 800 | 0.625 | 300 | 0.277 | 400 |
| | 600 | 1.042 | 500 | 0.347 | 500 |
| | 400 | 1.563 | 750 | 0.521 | 750 |
| | 200 | 2.083 | 1000 | 0.694 | 1000 |

| 蜗杆转速 worm rotat- ional speed n r/min | 起升速度 lifting speed v m/min | 起升力 lifting strength KN | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------------|-------------------------|----|------|-----|------|----|------|-----|------|----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|------|------|-----|------|------|------|
| | | 25 | | 20 | | 15 | | 10 | | 5 | | 2.5 | | | | | | | | | | | | | | | | | | |
| P | M | P | M | P | M | P | M | P | M | P | M | P | M | | | | | | | | | | | | | | | | | |
| 1500 | 1.500 | 0.375 | 18 | 2.7 | 7.1 | 1.2 | 14 | 2.2 | 5.7 | 0.89 | 11 | 1.7 | 4.3 | 0.67 | 6.9 | 1.10 | 2.9 | 0.45 | 3.5 | 0.54 | 1.4 | 0.22 | 1.7 | 0.27 | 0.71 | 1.11 | 0.7 | 0.11 | 0.28 | 0.05 |
| 1000 | 1.000 | 0.250 | 18 | 1.8 | 7.1 | 0.74 | 14 | 1.5 | 5.7 | 0.60 | 11 | 1.1 | 4.3 | 0.45 | 6.9 | 0.72 | 2.9 | 0.30 | 3.5 | 0.36 | 1.4 | 0.15 | 1.7 | 0.18 | 0.71 | 0.07 | 0.7 | 0.07 | 0.28 | 0.05 |
| 750 | 0.750 | 0.188 | 18 | 1.4 | 7.1 | 0.56 | 14 | 1.1 | 5.7 | 0.45 | 11 | 0.82 | 4.3 | 0.33 | 6.9 | 0.54 | 2.9 | 0.22 | 3.5 | 0.27 | 1.4 | 0.11 | 1.7 | 0.14 | 0.71 | 0.06 | 0.7 | 0.05 | 0.28 | 0.05 |
| 500 | 0.500 | 0.125 | 18 | 0.91 | 7.1 | 0.37 | 14 | 0.72 | 5.7 | 0.30 | 11 | 0.54 | 4.3 | 0.22 | 6.9 | 0.36 | 2.9 | 0.15 | 3.5 | 0.18 | 1.4 | 0.07 | 1.7 | 0.09 | 0.71 | 0.05 | 0.7 | 0.05 | 0.28 | 0.05 |
| 300 | 0.300 | 0.075 | 18 | 0.54 | 7.1 | 0.22 | 14 | 0.43 | 5.7 | 0.18 | 11 | 0.33 | 4.3 | 0.13 | 6.9 | 0.22 | 2.9 | 0.09 | 3.5 | 0.11 | 1.4 | 0.05 | 1.7 | 0.05 | 0.71 | 0.05 | 0.7 | 0.05 | 0.28 | 0.05 |
| 200 | 0.200 | 0.050 | 18 | 0.36 | 7.1 | 0.15 | 14 | 0.29 | 5.7 | 0.12 | 11 | 0.22 | 4.3 | 0.09 | 6.9 | 0.14 | 2.9 | 0.06 | 3.5 | 0.07 | 1.4 | 0.05 | 1.7 | 0.05 | 0.71 | 0.05 | 0.7 | 0.05 | 0.28 | 0.05 |
| 100 | 0.100 | 0.025 | 18 | 0.18 | 7.1 | 0.07 | 14 | 0.14 | 5.7 | 0.06 | 11 | 0.11 | 4.3 | 0.05 | 6.9 | 0.07 | 2.9 | 0.05 | 3.5 | 0.05 | 1.4 | 0.05 | 1.7 | 0.05 | 0.71 | 0.05 | 0.7 | 0.05 | 0.28 | 0.05 |
| 50 | 0.050 | 0.013 | 18 | 0.09 | 7.1 | 0.05 | 14 | 0.07 | 5.7 | 0.05 | 11 | 0.05 | 4.3 | 0.05 | 6.9 | 0.05 | 2.9 | 0.05 | 3.5 | 0.05 | 1.4 | 0.05 | 1.7 | 0.05 | 0.71 | 0.05 | 0.7 | 0.05 | 0.28 | 0.05 |

表5 table5 (E-SWL2.5)

| 蜗杆转速 worm rotat- ional speed n r/min | 起升速度 lifting speed v m/min | 起升力 lifting strength KN | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------------|-------------------------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 25 | | 20 | | 15 | | 10 | | 5 | | 2.5 | | 1 | | | | | | | | | | | | | | | | |
| P | M | P | M | P | M | P | M | P | M | P | M | P | M | P | M | | | | | | | | | | | | | | | |
| 1500 | 1.750 | 0.438 | 44.2 | 6.9 | 19.3 | 3.0 | 35.4 | 5.6 | 15.5 | 2.4 | 26.5 | 4.2 | 11.6 | 1.8 | 17.7 | 2.8 | 7.7 | 1.2 | 8.8 | 1.4 | 3.9 | 0.6 | 4.4 | 0.7 | 1.9 | 0.3 | 2.2 | 0.3 | 1.0 | 0.2 |
| 1000 | 1.167 | 0.292 | 44.2 | 4.6 | 19.3 | 2.0 | 35.4 | 3.7 | 15.5 | 1.6 | 26.5 | 2.8 | 11.6 | 1.2 | 17.7 | 1.9 | 7.7 | 0.8 | 8.8 | 0.9 | 3.9 | 0.4 | 4.4 | 0.5 | 1.9 | 0.2 | 2.2 | 0.2 | 1.0 | 0.1 |
| 750 | 0.875 | 0.219 | 44.2 | 3.5 | 19.3 | 1.5 | 35.4 | 2.8 | 15.5 | 1.2 | 26.5 | 2.1 | 11.6 | 0.9 | 17.7 | 1.4 | 7.7 | 0.6 | 8.8 | 0.7 | 3.9 | 0.3 | 4.4 | 0.3 | 1.9 | 0.2 | 2.2 | 0.2 | 1.0 | 0.1 |
| 500 | 0.583 | 0.146 | 44.2 | 2.3 | 19.3 | 1.0 | 35.4 | 1.9 | 15.5 | 0.8 | 26.5 | 1.4 | 11.6 | 0.6 | 17.7 | 0.9 | 7.7 | 0.4 | 8.8 | 0.5 | 3.9 | 0.2 | 4.4 | 0.2 | 1.9 | 0.1 | 2.2 | 0.1 | 1.0 | 0.1 |
| 300 | 0.350 | 0.088 | 44.2 | 1.4 | 19.3 | 0.6 | 35.4 | 1.1 | 15.5 | 0.5 | 26.5 | 0.8 | 11.6 | 0.4 | 17.7 | 0.6 | 7.7 | 0.2 | 8.8 | 0.3 | 3.9 | 0.1 | 4.4 | 0.1 | 1.9 | 0.1 | 2.2 | 0.1 | 1.0 | 0.1 |
| 200 | 0.233 | 0.058 | 44.2 | 0.9 | 19.3 | 0.4 | 35.4 | 0.7 | 15.5 | 0.3 | 26.5 | 0.6 | 11.6 | 0.2 | 17.7 | 0.4 | 7.7 | 0.2 | 8.8 | 0.2 | 3.9 | 0.1 | 4.4 | 0.1 | 1.9 | 0.1 | 2.2 | 0.1 | 1.0 | 0.1 |
| 100 | 0.117 | 0.029 | 44.2 | 0.5 | 19.3 | 0.2 | 35.4 | 0.4 | 15.5 | 0.2 | 26.5 | 0.3 | 11.6 | 0.1 | 17.7 | 0.2 | 7.7 | 0.1 | 8.8 | 0.1 | 3.9 | 0.1 | 4.4 | 0.1 | 1.9 | 0.1 | 2.2 | 0.1 | 1.0 | 0.1 |
| 50 | 0.058 | 0.015 | 44.2 | 0.2 | 19.3 | 0.1 | 35.4 | 0.2 | 15.5 | 0.1 | 26.5 | 0.1 | 11.6 | 0.1 | 17.7 | 0.1 | 7.7 | 0.1 | 8.8 | 0.1 | 3.9 | 0.1 | 4.4 | 0.1 | 1.9 | 0.1 | 2.2 | 0.1 | 1.0 | 0.1 |

表6 table6 (E-SWL5)

| 蜗杆转速 worm rotat- ional speed n r/min | 起升速度 lifting speed v m/min | 起升力 lifting strength KN | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------------|-------------------------|-----|----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|
| | | 100 | | 80 | | 60 | | 40 | | 20 | | 10 | | 5 | | | | | | | | | | | | | | |
| P | M | P | M | P | M | P | M | P | M | P | M | P | M | P | M | | | | | | | | | | | | | |
| 1500 | 2.348 | 0.750 | 108 | 17 | 53 | 8.3 | 87 | 14 | 43 | 6.7 | 65 | 11 | 32 | 5.0 | 44 | 6.8 | 22 | 3.3 | 22 | 3.4 | 11 | 1.7 | 5.3 | 0.8 | 5.4 | 0.9 | 2.7 | 0.4 |
| 1000 | 1.565 | 0.500 | 108 | 12 | 53 | 5.6 | 87 | 9.1 | 43 | 4.4 | 65 | 6.8 | 32 | 3.3 | 44 | 4.5 | 22 | 2.2 | 22 | 2.3 | 11 | 1.1 | 5.3 | 0.6 | 5.4 | 0.6 | 2.7 | |

| 蜗杆转速 worm rotat- ional speed n r/min | 起升速度 lifting speed v m/min | 起升力 lifting strength KN | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|
| | | 250 | | 200 | | 160 | | 120 | | 100 | | 75 | | | | | | | | | | | | | | | | | |
| P | M | P | M | P | M | P | M | P | M | P | M | P | M | | | | | | | | | | | | | | | | |
| 1500 | 0.500 | 314 | 33 | 181 | 19 | 252 | 27 | 145 | 16 | 201 | 22 | 116 | 13 | 151 | 16 | 87 | 9.1 | 126 | 14 | 73 | 7.6 | 95 | 9.9 | 55 | 5.7 | 63 | 6.6 | 37 | 3.8 |
| 1000 | 1.125 | 314 | 25 | 181 | 15 | 252 | 20 | 145 | 12 | 201 | 16 | 116 | 9.1 | 151 | 12 | 87 | 6.8 | 126 | 9.9 | 73 | 5.7 | 95 | 7.4 | 55 | 4.3 | 63 | 4.9 | 37 | 2.8 |
| 750 | 0.750 | 314 | 17 | 181 | 9.5 | 252 | 14 | 145 | 7.6 | 201 | 11 | 116 | 6.1 | 151 | 7.9 | 87 | 4.5 | 126 | 6.6 | 73 | 3.8 | 95 | 4.9 | 55 | 2.8 | 63 | 3.3 | 37 | 1.9 |
| 500 | 0.600 | 314 | 14 | 181 | 7.6 | 252 | 11 | 145 | 6.1 | 201 | 8.4 | 116 | 4.8 | 151 | 6.3 | 87 | 3.6 | 126 | 5.3 | 73 | 3.0 | 95 | 3.9 | 55 | 2.3 | 63 | 2.6 | 37 | 1.5 |
| 300 | 0.450 | 314 | 9.9 | 181 | 5.7 | 252 | 7.9 | 145 | 4.5 | 201 | 6.3 | 116 | 3.6 | 151 | 4.7 | 87 | 2.7 | 126 | 3.9 | 73 | 2.3 | 95 | 3.0 | 55 | 1.8 | 63 | 2.0 | 37 | 1.1 |
| 200 | 0.300 | 314 | 6.6 | 181 | 3.8 | 252 | 5.3 | 145 | 3.0 | 201 | 4.2 | 116 | 2.4 | 151 | 3.2 | 87 | 1.7 | 126 | 2.6 | 73 | 1.5 | 95 | 2.0 | 55 | 1.1 | 63 | 1.3 | 37 | 0.8 |
| 100 | 0.150 | 314 | 3.3 | 181 | 1.9 | 252 | 1.3 | 145 | 1.5 | 201 | 2.1 | 116 | 1.2 | 151 | 1.6 | 87 | 0.9 | 126 | 1.3 | 73 | 0.8 | 95 | 1.0 | 55 | 0.6 | 63 | 0.7 | 37 | 0.4 |
| 50 | 0.075 | 314 | 1.6 | 181 | 0.9 | 252 | 0.8 | 145 | 0.8 | 201 | 1.1 | 116 | 0.6 | 151 | 0.8 | 87 | 0.5 | 126 | 0.7 | 73 | 0.4 | 95 | 0.5 | 55 | 0.3 | 63 | 0.3 | 37 | 0.2 |

表9 table9 (E-SWL25)

| 蜗杆转速 worm rotat- ional speed n r/min | 起升速度 lifting speed v m/min | 起升力 lifting strength KN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|----|-----|----|-----|
| | | 350 | | 300 | | 250 | | 200 | | 150 | | 100 | | 50 | | | | | | | | | | | | | | | | | |
| P | M | P | M | P | M | P | M | P | M | P | M | P | M | P | M | | | | | | | | | | | | | | | | |
| 1500 | 1.500 | 464 | 49 | 253 | 27 | 398 | 42 | 217 | 23 | 332 | 35 | 181 | 19 | 266 | 28 | 145 | 16 | 199 | 21 | 109 | 12 | 133 | 14 | 73 | 7.6 | 67 | 6.9 | 36 | 3.8 | | |
| 1000 | 1.125 | 464 | 37 | 253 | 20 | 398 | 32 | 217 | 17 | 332 | 26 | 181 | 15 | 266 | 21 | 145 | 12 | 199 | 16 | 109 | 8.5 | 133 | 11 | 73 | 5.7 | 67 | 5.2 | 36 | 2.8 | | |
| 750 | 0.750 | 464 | 25 | 253 | 14 | 398 | 21 | 217 | 12 | 332 | 18 | 181 | 9.5 | 266 | 14 | 145 | 7.6 | 199 | 11 | 109 | 5.7 | 133 | 6.9 | 73 | 3.8 | 67 | 3.0 | 67 | 2.8 | 36 | 1.9 |
| 500 | 0.600 | 464 | 20 | 253 | 11 | 398 | 17 | 217 | 9.1 | 332 | 14 | 181 | 7.6 | 266 | 12 | 145 | 6.1 | 199 | 8.3 | 109 | 4.5 | 133 | 5.6 | 73 | 3.0 | 67 | 2.8 | 36 | 1.5 | | |
| 300 | 0.450 | 464 | 15 | 253 | 8.0 | 398 | 13 | 217 | 6.8 | 332 | 11 | 181 | 5.7 | 266 | 8.3 | 145 | 4.5 | 199 | 6.3 | 109 | 3.4 | 133 | 4.2 | 73 | 2.3 | 67 | 2.1 | 36 | 1.1 | | |
| 200 | 0.300 | 464 | 9.8 | 253 | 5.3 | 398 | 8.4 | 217 | 4.5 | 332 | 7.0 | 181 | 3.8 | 266 | 5.6 | 145 | 3.0 | 199 | 4.2 | 109 | 2.3 | 133 | 2.8 | 73 | 1.5 | 67 | 1.4 | 36 | 0.8 | | |
| 100 | 0.150 | 464 | 4.9 | 253 | 2.7 | 398 | 4.2 | 217 | 2.3 | 332 | 3.5 | 181 | 1.9 | 266 | 2.8 | 145 | 1.5 | 199 | 2.1 | 109 | 1.1 | 133 | 1.4 | 73 | 0.8 | 67 | 0.7 | 36 | 0.4 | | |
| 50 | 0.075 | 464 | 2.5 | 253 | 1.3 | 398 | 2.1 | 217 | 1.1 | 332 | 1.8 | 181 | 0.9 | 266 | 1.4 | 145 | 0.8 | 199 | 1.0 | 109 | 0.6 | 133 | 0.7 | 73 | 0.4 | 67 | 0.3 | 36 | 0.3 | | |

表10 table10 (E-SWL35)

| 蜗杆转速 worm rotat- ional speed n r/min | 起升速度 lifting speed v m/min | 起升力 lifting strength KN | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------------|-------------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|----|-----|
| | | 500 | | 450 | | 400 | | 350 | | 300 | | 200 | | 100 | | | | | | | | | | | | | | | | |
| P | M | P | M | P | M | P | M | P | M | P | M | P | M | P | M | | | | | | | | | | | | | | | |
| 1500 | 1.6 | 0.625 | 848 | 88 | 448 | 47 | 764 | 80 | 401 | 42 | 679 | 71.1 | 353 | 37 | 594 | 62.2 | 316 | 33.1 | 509 | 53.3 | 271 | 28.4 | 339 | 35.5 | 180 | 18.9 | 169 | 17.7 | 90 | 9.4 |
| 1000 | 1.2 | 0.469 | 848 | 67 | 448 | 35.5 | 764 | 60 | 401 | 31 | 679 | 53.3 | 353 | 28.4 | 594 | 46.5 | 316 | 24.8 | 509 | 39.9 | 271 | 21.3 | 339 | 26.7 | 180 | 14.2 | 169 | 13.4 | 90 | 7.1 |
| 750 | 0.8 | 0.313 | 848 | 44 | 448 | 23.7 | 764 | 40 | 401 | 21 | 679 | 35.5 | 353 | 18.9 | 594 | 31 | 316 | 16.6 | 509 | 26.2 | 271 | 14.2 | 339 | 17.7 | 180 | 9.5 | 169 | 8.9 | 90 | 4.7 |
| 500 | 0.64 | 0.225 | 848 | 35 | 448 | 18.9 | 764 | 32 | 401 | 17 | 679 | 28.4 | 353 | 1 | | | | | | | | | | | | | | | | |

表13 table13(E-SWL120)

| 蜗杆转速 worm rotat- ional speed n r/min | 起升速度 lifting speed v m/min | 起升力 lifting strength KN | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------------|-------------------------|------|------|------|-----|------|------|------|-----|------|-----|------|-----|------|------|------|------|------|------|-----|------|------|------|-----|------|-----|------|-----|------|
| | | 1200 | | 1000 | | 900 | | 800 | | 600 | | 400 | | 200 | | | | | | | | | | | | | | | | |
| P | M | P | M | P | M | P | M | P | M | P | M | P | M | P | M | | | | | | | | | | | | | | | |
| 1500 | 2.083 | 0.694 | 3315 | 347 | 1656 | 173 | 2762 | 289 | 1380 | 144 | 2486 | 260 | 1242 | 130 | 2206 | 231 | 1104 | 115 | 1657 | 173 | 828 | 86.5 | 1103 | 115 | 552 | 57.5 | 551 | 57.5 | 276 | 28.5 |
| 1000 | 1.563 | 0.521 | 3315 | 260 | 1656 | 130 | 2762 | 217 | 1380 | 108 | 2486 | 195 | 1242 | 97 | 2206 | 173 | 1104 | 86 | 1657 | 130 | 828 | 65 | 1103 | 86 | 552 | 43 | 551 | 43 | 276 | 21.5 |
| 750 | 1.042 | 0.347 | 3315 | 173 | 1656 | 87 | 2762 | 144 | 1380 | 72 | 2486 | 130 | 1242 | 65 | 2206 | 115 | 1104 | 57 | 1657 | 86 | 828 | 43.5 | 1103 | 57 | 552 | 28.5 | 551 | 28.5 | 276 | 14.2 |
| 500 | 0.833 | 0.277 | 3315 | 138 | 1656 | 69 | 2762 | 115 | 1380 | 57 | 2486 | 104 | 1242 | 51 | 2206 | 92 | 1104 | 46 | 1657 | 69 | 828 | 34.5 | 1103 | 46 | 552 | 23 | 551 | 23 | 276 | 11.5 |
| 300 | 0.625 | 0.208 | 3315 | 104 | 1656 | 52 | 2762 | 86 | 1380 | 43 | 2486 | 78 | 1242 | 39 | 2206 | 69 | 1104 | 35 | 1657 | 52 | 828 | 26 | 1103 | 34.5 | 552 | 17.5 | 551 | 17.5 | 276 | 8.7 |
| 200 | 0.417 | 0.139 | 3315 | 69 | 1656 | 34 | 2762 | 58 | 1380 | 28 | 2486 | 52 | 1242 | 26 | 2206 | 46 | 1104 | 23 | 1657 | 34.5 | 828 | 17 | 1103 | 23 | 552 | 11.5 | 551 | 11.5 | 276 | 5.7 |
| 100 | 0.208 | 0.069 | 3315 | 34 | 1656 | 17 | 2762 | 29 | 1380 | 14 | 2486 | 26 | 1242 | 13 | 2206 | 23 | 1104 | 11.5 | 1657 | 17 | 828 | 8.5 | 1103 | 11.5 | 552 | 5.7 | 551 | 5.7 | 276 | 2.8 |
| 50 | 0.104 | 0.035 | 3315 | 17 | 1656 | 8.5 | 2762 | 14.5 | 1380 | 7 | 2486 | 13 | 1242 | 6.5 | 2206 | 11.5 | 1104 | 5.7 | 1657 | 8.5 | 828 | 4.2 | 1103 | 5.7 | 552 | 2.8 | 551 | 2.8 | 276 | 1.4 |

7 蜗杆副采用稀油润滑时的总效率 η (仅用于2型) 见表14The general efficiency under the worm pair lubricated with thin oil
(for 2nd type only) refer to table 14

表14 talbe 14

| 蜗杆 转速 worm rotat- ional speed r/min | 型号E-SWL type E-SWL | | | | | | | | | | | |
|---|-----------------------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|
| | 2.5 | 2.5M | 5 | 5M | 10/15 | 10M/15M | 20 | 20M | 25 | 25M | 35 | 35M |
| 1500 | 0.283 | 0.214 | 0.257 | 0.188 | 0.29 | 0.236 | 0.273 | 0.275 | 0.262 | 0.21 | 0.248 | 0.204 |
| 1000 | 0.279 | 0.206 | 0.252 | 0.18 | 0.285 | 0.227 | 0.268 | 0.217 | 0.257 | 0.2 | 0.243 | 0.195 |
| 750 | 0.276 | 0.201 | 0.249 | 0.175 | 0.282 | 0.222 | 0.266 | 0.212 | 0.253 | 0.194 | 0.24 | 0.189 |
| 500 | 0.272 | 0.194 | 0.245 | 0.168 | 0.277 | 0.215 | 0.262 | 0.205 | 0.249 | 0.187 | 0.236 | 0.183 |
| 300 | 0.267 | 0.187 | 0.241 | 0.161 | 0.272 | 0.207 | 0.257 | 0.198 | 0.243 | 0.179 | 0.231 | 0.175 |
| 100 | 0.257 | 0.172 | 0.231 | 0.146 | 0.261 | 0.191 | 0.247 | 0.183 | 0.233 | 0.164 | 0.222 | 0.16 |
| 50 | 0.251 | 0.164 | 0.225 | 0.138 | 0.255 | 0.183 | 0.242 | 0.175 | 0.226 | 0.155 | 0.216 | 0.152 |

8 蜗杆轴伸的许用径向力 The safety radial strength of worm axial elongation

8.1 蜗杆轴伸上, 由于安装齿轮、链轮或带轮所产生的径向力Fr, 其最大许用力与起升力和扭矩见图3和表15。

At the worm axial elongation, the radial strength Fr caused by installing gear, chain wheel or belt wheel, the Max safety strength has relation to lifting strength and jack type. The Max safety radial strength and torque at the half point, please see chart 3 and table 15.

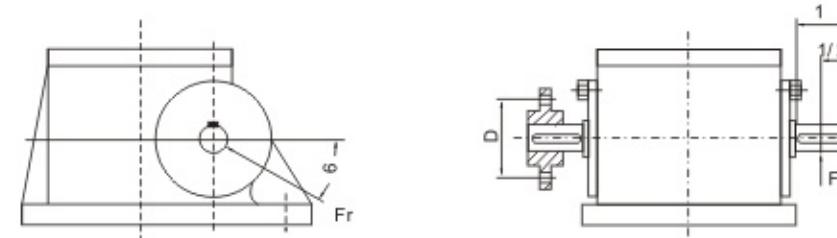
图3
chart 3

表15 talbe 15

| 型号 type | Frmax N | Mtmax N.m |
|--------------------|---------|-----------|
| E-SWL2.5/2.5M | 350 | 18 |
| E-SWL5/5M | 750 | 44.2 |
| E-SWL10/10M/15/15M | 1000 | 108 |
| E-SWL20/20M | 1300 | 182 |
| E-SWL25/25M | 2000 | 314 |
| E-SWL35/35M | 2300 | 398 |

注: 表中参数是按 $\phi \approx 30^\circ$ 或 330° 的计算。Note:parameters in the table counted as $\phi \approx 30^\circ$ or 330° .

8.2 齿轮或带轮的最小直径: $D_{min}=19100 \times \frac{P}{Fr_{max,n}} = \frac{2Mt}{Fr_{max}}$

The Min diameter of gear or belt wheel

式中: Dmin——齿轮或带轮的最小直径, m

In Formula: the Min diameter of gear or belt wheel,m

P——驱动功率, kW
Drive power,kW

Frmax——最大径向力, N

Max radial strength,N

n——蜗杆转速, r/min

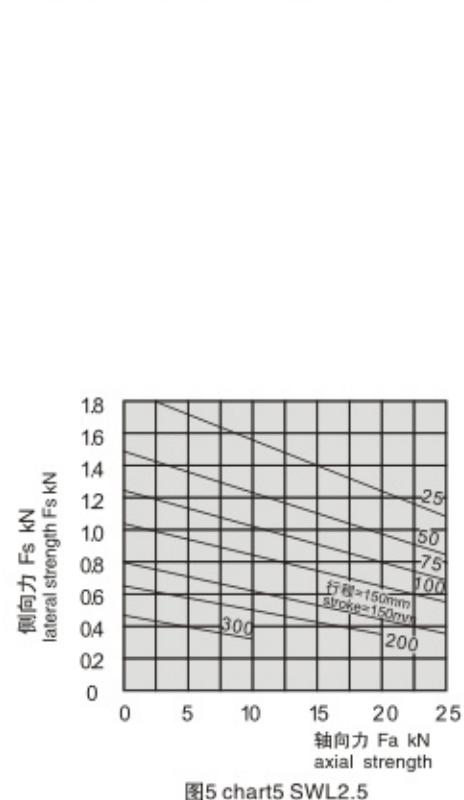
Worm rotational speed, r/min

Mt——驱动扭矩, N.m

Drive torques, N.m

$$D_{min}=19100 \times \frac{P}{Fr_{max,n}} = \frac{2Mt}{Fr_{max}}$$

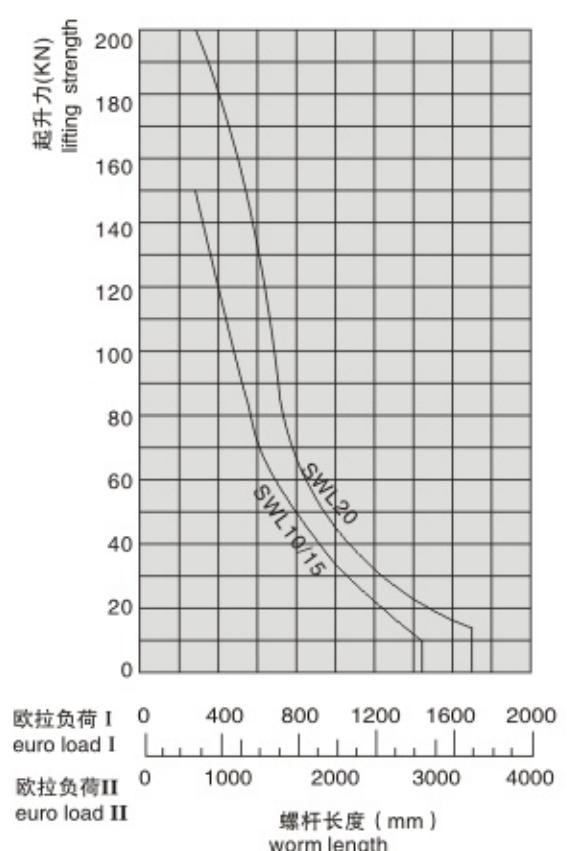
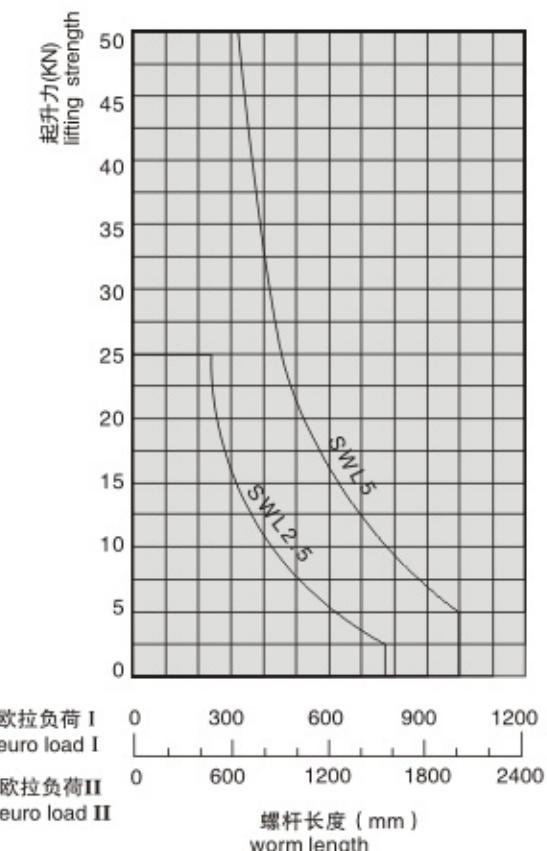
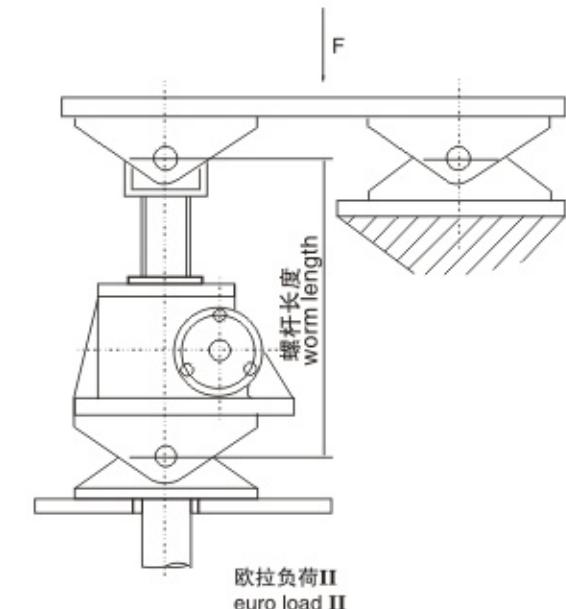
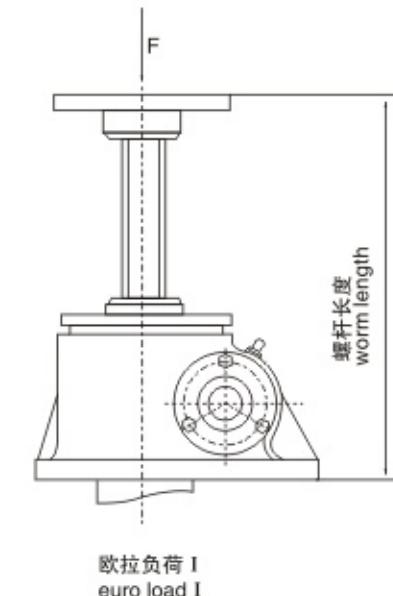
螺杆许用侧向力Fs和轴向力Fa与行程和的关系见图4~10
Relation between the safety lateral strength, axial strength and stroke, refer to chart 4~10

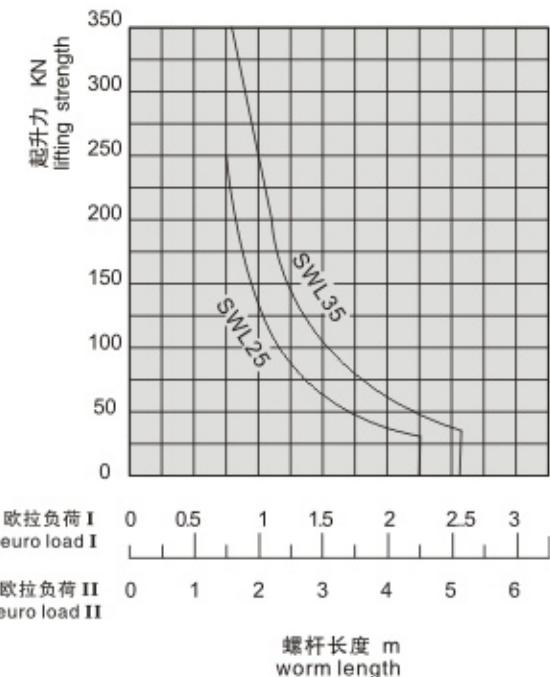
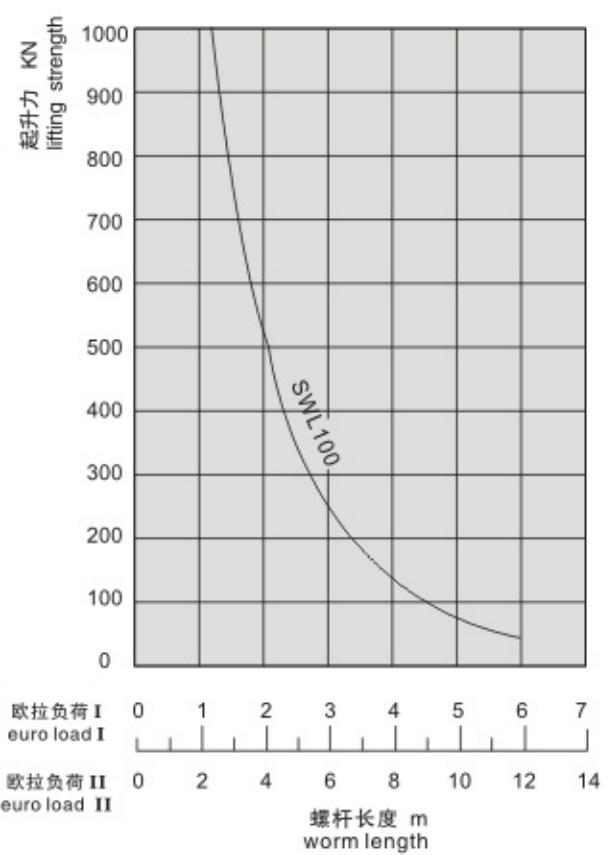
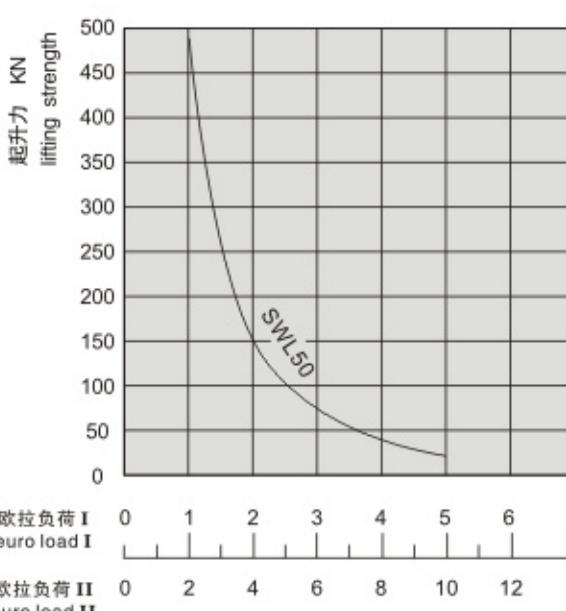
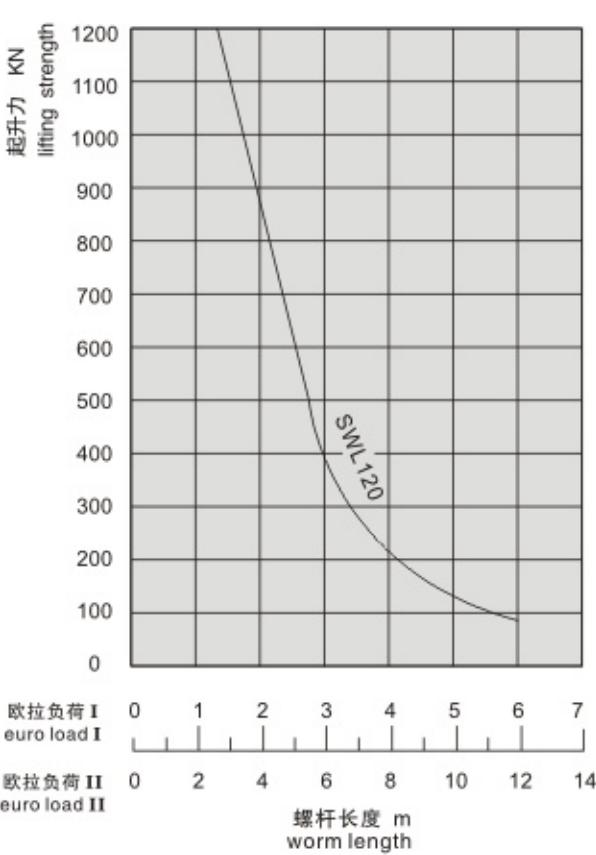


螺杆长度与极限负荷的关系 The relation between screw length and limit load

在欧拉负荷I和II情况下，螺杆长度与极限负荷的关系见图11~图17.

Under euro load I and II, the relation between screw length and limit load, see chart 11~17



图14
chart14图16
chart16图15
chart15图17
chart17

升降机的额定输入功率*见表16 The rated input power of jacks* see table 16

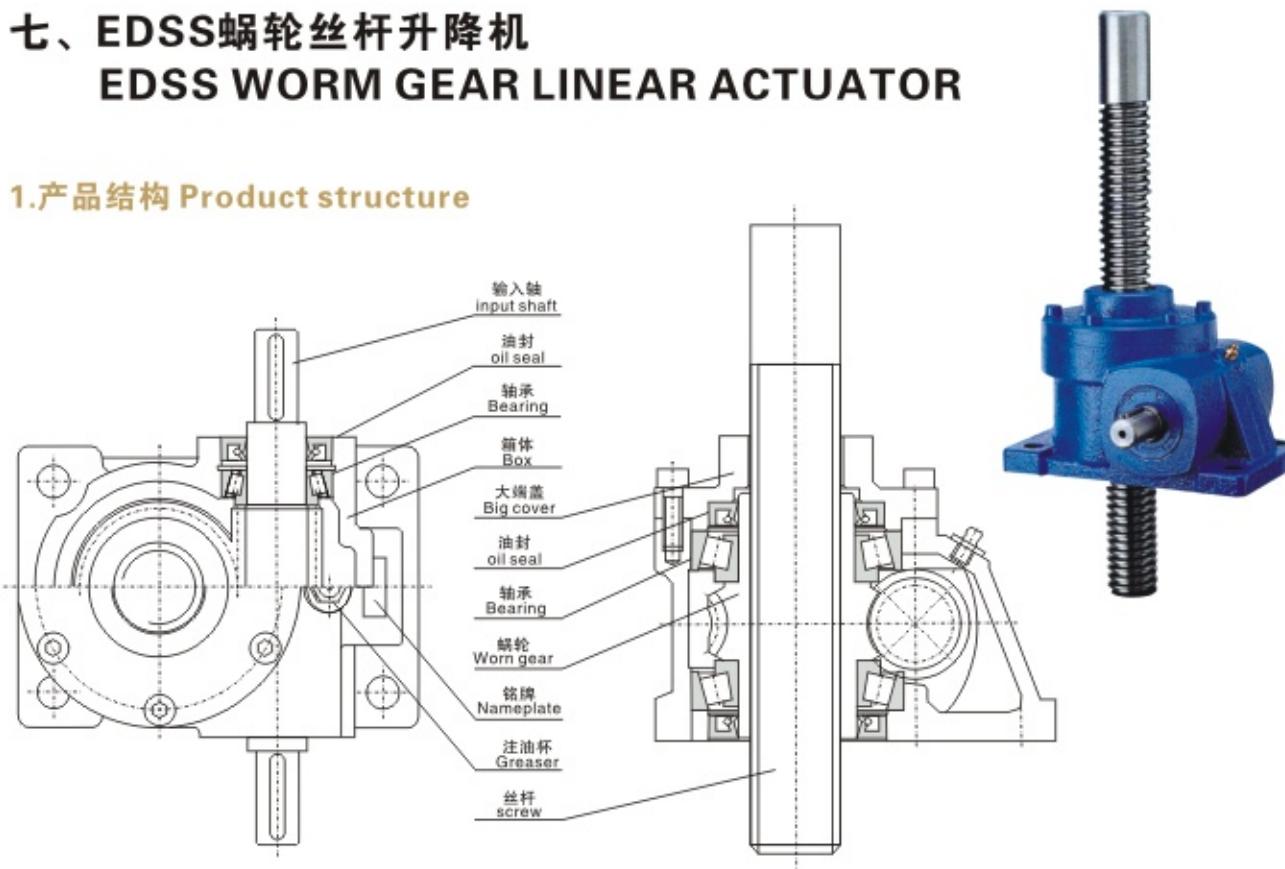
| 型号 type | 输入转速r/min input rotational speed | 普通速比 normal speed ratio | 慢速比 slow speed ratio |
|------------|----------------------------------|-------------------------|----------------------|
| E-SWL2.5 | 1500 | 1.45 | 1.45 |
| | 1000 | 1.01 | 0.32 |
| | 750 | 0.98 | 0.24 |
| | 500 | 0.82 | 0.19 |
| E-SWL5 | 1500 | 2.59 | 0.84 |
| | 1000 | 1.92 | 0.7 |
| | 750 | 1.77 | 0.58 |
| | 500 | 1.45 | 0.43 |
| E-SWL10/15 | 1500 | 3.47 | 1.31 |
| | 1000 | 2.68 | 1.06 |
| | 750 | 2.15 | 0.93 |
| | 500 | 1.89 | 0.64 |
| E-SWL20 | 1500 | 4.02 | 1.65 |
| | 1000 | 2.94 | 1.39 |
| | 750 | 2.46 | 1.15 |
| | 500 | 2.31 | 0.77 |
| E-SWL25 | 1500 | 6.38 | 2.26 |
| | 1000 | 4.42 | 1.87 |
| | 750 | 3.4 | 1.51 |
| | 500 | 2.67 | 1.22 |
| E-SWL35 | 1500 | 13.06 | 6.36 |
| | 1000 | 11.89 | 5.28 |
| | 750 | 9.9 | 4.2 |
| | 500 | 6.56 | 3.13 |
| E-SWL50 | 1000 | 11.74 | 6.29 |
| | 750 | 10.62 | 4.78 |
| | 500 | 8.25 | 3.63 |
| | 300 | 5.92 | 2.65 |
| E-SWL100 | 1000 | 23.5 | 11.78 |
| | 750 | 21.1 | 9.44 |
| | 500 | 15.7 | 6.88 |
| | 300 | 10.9 | 4.94 |
| E-SWL120 | 1000 | 56.41 | 28.2 |
| | 750 | 53.9 | 22.2 |
| | 500 | 39.8 | 16.44 |
| | 300 | 26.7 | 11.4 |

★表中功率值为载荷平稳无冲击、环境温度20°C、浸油润滑状态下的功率值。

★The parameter power got in this condition: ambient temperature is 20°C, in the grease-lubricated case, the load beared without any impact.

七、EDSS 蜗轮丝杆升降机 EDSS WORM GEAR LINEAR ACTUATOR

1. 产品结构 Product structure



2. 型号说明 Model Introduction

ED SS D 100 - 12 - A R - 300 - B - P

1 企业代码
ED-- 意德减速
Enterprise code
ED--xingda machinery

2 产品代码
SS-- 蜗轮丝杆
升降机
Products code
SS-- worm gear linear actuator

3 输入轴联接方式
D-- 带电机法兰
无代码 -- 基本型
Connector of
Input shaft
D With motor flange
Non-code--basic

4 规格用蜗轮副
中心距表示100
Specification
Expressed by the center
distance of a pair of
Worm gear 100

5 传动比
12
Ratio
12

6 安装方式代码
Mounting Option code
A、B--基本型
C、D--丝杆头部型式
E、F--丝杆行程
详见“4.3安装方式”
A-B-Basic Model
C-D-Screw head type without rotation
E-F-Screw rotate without fluctuation
more information from 4.3 Mounting option

7 丝杆头部型式代码
Code of screw head
R型 (圆柱式) R-Column type
H型 (桩孔式) H-Bolt hole type
S型 (螺纹式) S-Screw type
T型 (顶板式) T-Ceiling type
详见“产品图片”
注：安装方式E、F时无此代码
Notes:Non-code-E,F
mounting option

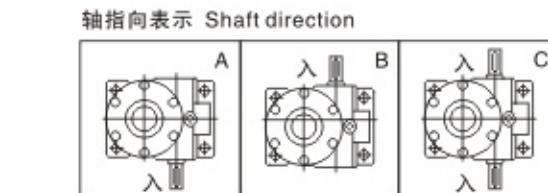
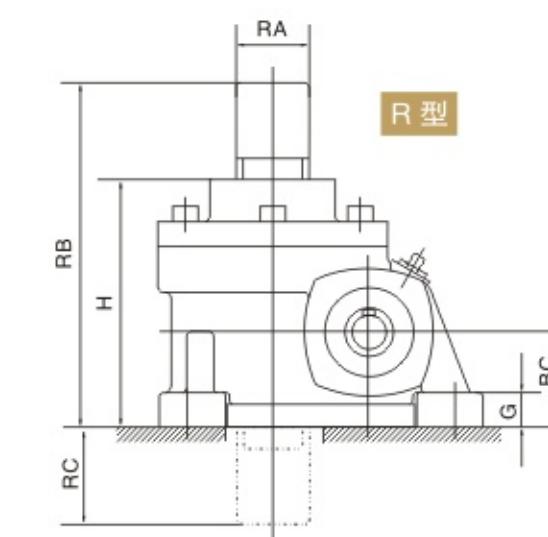
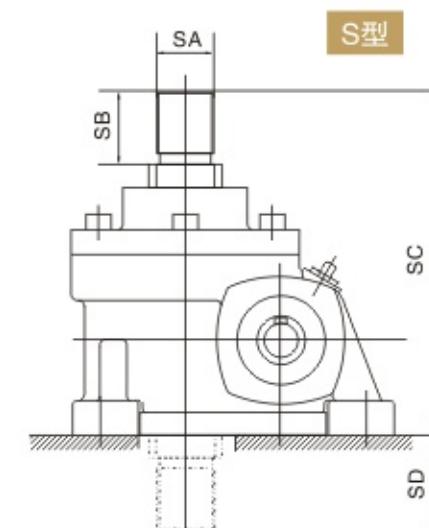
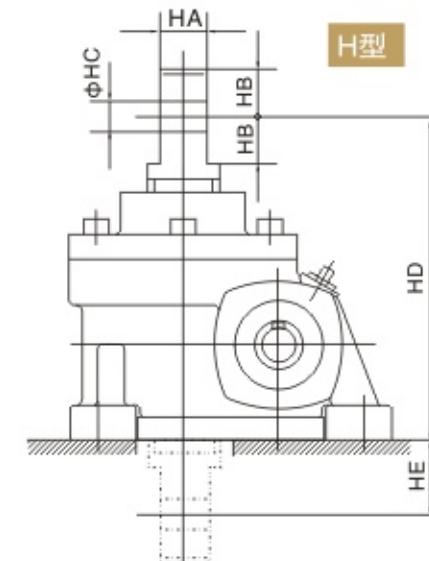
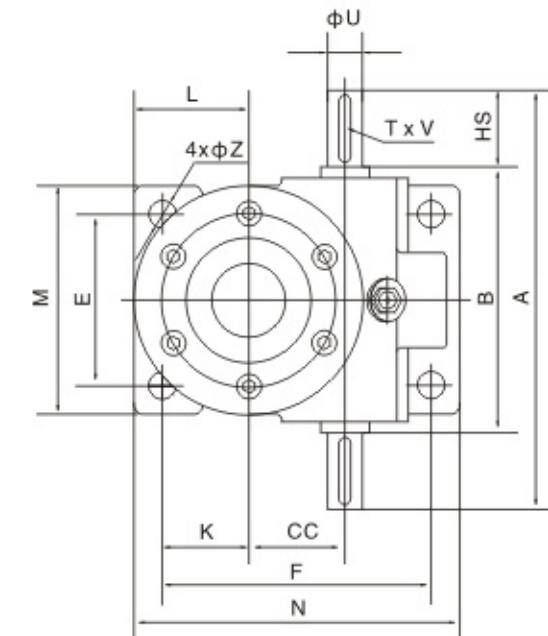
8 丝杆行程
300mm
Stroke of screw 300mm
共有100, 200, 300, 400,
500, 600, 800, 1000mm
8种规格，根据使用情况选择。
如需要其它长度行程，也可定做
Total screw stroke model:100,200,300,400,
500,600,800,1000mm choose
according to using situation, if other
model needed, can be made to order

9 轴指向
shaft direction
EDSS系列共有A、B、C三种
EDSS series have a,b
and C three species
EDSSD series have A,B,C
and D four species

10 护管
Safeguard pipe
P--带护管
P-With safeguard pipe
无代码--不带护管
Non-code--without
safeguard pipe
注：安装方式E、F时无此代码
Notes:Non-code-E,F
mounting option

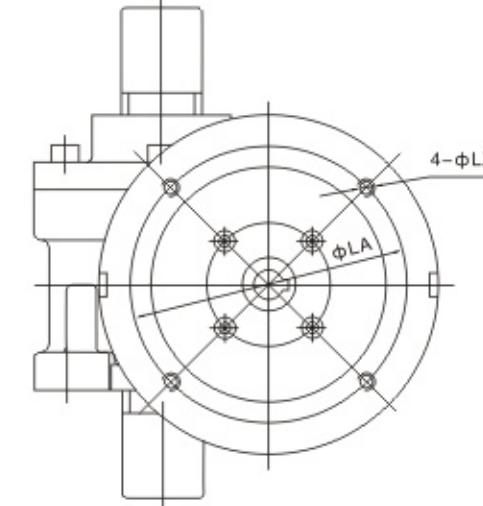
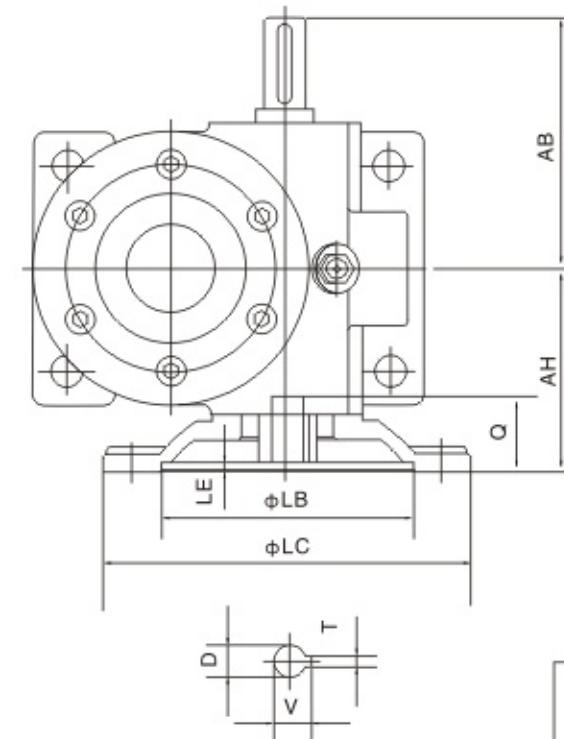
3. 安装尺寸 Installation Dimensions

3.1 EDSS 安装尺寸 Installation Dimensions of EDSS

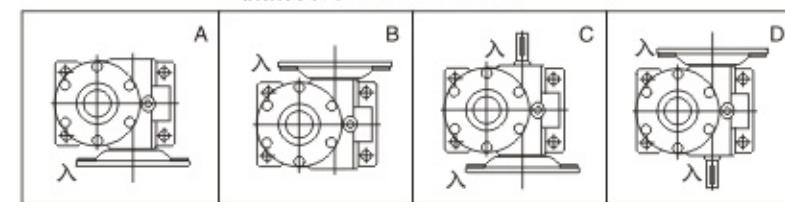


| 型号 规格 Model size | A B HS | E F Z | BC G H | CC K | Tr | L M N | U T x V | 丝杆头部型式 Type of screw head | | | | | | |
|---------------------------|--------------|-------------|--------------|---------|----------|-------------|--------------|---------------------------|----------------|----------|---------|----------------|----------------|------------------|
| | | | | | | | | R型 | | H型 | | S型 | | |
| | | | | | | | | RA RB RC | HA HB HC | HD HE | SA | SB SC SD | TA TB TC | n-TD TE TF |
| EDSS35 | 170 | 66 | 40 | 35 | Tr26x5 | 50 | 15 5x3 | 26 | 16 | 165 | M16x1.5 | 28 | 88 | 4-Φ10 |
| | 110 | 111 | 15 | 38 | | 90 | | 165 | 20 | 55 | | 150 | 70 | 135 |
| | 30 | 12 | 110 | 38 | | 135 | | 55 | 12 | | | 40 | 10 | 25 |
| EDSS40 | 220 | 80 | 50 | 40 | Tr32x6 | 57 | 18 6x3.5 | 32 | 20 | 195 | M22x1.5 | 32 | 98 | 4-Φ10 |
| | 140 | 125 | 18 | 42 | | 110 | | 195 | 25 | 65 | | 180 | 80 | 160 |
| | 40 | 12 | 130 | 42 | | 155 | | 65 | 14 | | | 50 | 13 | 30 |
| EDSS50 | 220 | 90 | 50 | 50 | Tr38x6 | 60 | 18 6x3.5 | 38 | 25 | 195 | M30x1.5 | 35 | 114 | 4-Φ12 |
| | 140 | 140 | 18 | 45 | | 120 | | 195 | 25 | 65 | | 180 | 90 | 160 |
| | 40 | 14 | 130 | 45 | | 170 | | 65 | 16 | | | 50 | 13 | 30 |
| EDSS60 | 256 | 100 | 60 | 60 | Tr46x8 | 90 | 25 8x4 | 46 | 32 | 255 | M33x1.5 | 40 | 138 | 4-Φ14 |
| | 176 | 190 | 20 | 60 | | 140 | | 255 | 32 | | | 220 | 100 | 200 |
| | 40 | 18 | 160 | 70 | | 230 | | 65 | 20 | 95 | | 60 | 16 | 40 |
| EDSS60B | 264 | 110 | 60 | 60 | Tr52x8 | 90 | 25 8x4 | 52 | 36 | 255 | M39x1.5 | 45 | 148 | 4-Φ18 |
| | 184 | 190 | 20 | 60 | | 150 | | 225 | 32 | | | 220 | 110 | 210 |
| | 40 | 18 | 160 | 70 | | 230 | | 65 | 24 | 95 | | 60 | 20 | 50 |
| EDSS70 | 316 | 140 | 70 | 70 | Tr65x10 | 95 | 28 8x4 | 65 | 44 | 295 | M45x1.5 | 55 | 178 | 4-Φ21 |
| | 216 | 210 | 25 | 75 | | 180 | | 250 | 35 | | | 260 | 125 | 235 |
| | 50 | 18 | 180 | 75 | | 250 | | 70 | 26 | 115 | | 80 | 25 | 55 |
| EDSS100 | 390 | 190 | 85 | 100 | Tr75x12 | 110 | 32 10x5 | 75 | 56 | 355 | M60x2 | 65 | 188 | 4-Φ21 |
| | 260 | 260 | 30 | 85 | | 230 | | 295 | 44 | | | 300 | 140 | 285 |
| | 65 | 22 | 220 | 85 | | 310 | | 75 | 35 | 135 | | 80 | 28 | 65 |
| EDSS120 | 420 | 210 | 100 | 120 | Tr80x12 | 130 | 35 10x5 | 80 | 60 | 410 | M64x2 | 70 | 218 | 4-Φ25 |
| | 290 | 305 | 30 | 105 | | 260 | | 355 | 54 | | | 360 | 170 | 330 |
| | 65 | 22 | 260 | 105 | | 355 | | 95 | 38 | 150 | | 100 | 30 | 70 |
| EDSS130 | 480 | 240 | 120 | 130 | Tr90x14 | 160 | 45 14x5.5 | 90 | 70 | 480 | M76x2 | 75 | 248 | 4-Φ27 |
| | 340 | 355 | 30 | 130 | | 300 | | 430 | 64 | | | 435 | 200 | 390 |
| | 70 | 22 | 315 | 130 | | 415 | | 115 | 45 | 165 | | 120 | 32 | 75 |
| EDSS150 | 550 | 250 | 125 | 150 | Tr100x16 | 170 | 50 14x5.5 | 100 | 80 | 545 | M90x2 | 100 | 358 | 6-Φ27 |
| | 360 | 385 | 35 | 135 | | 320 | | 485 | 70 | | | 495 | 280 | 445 |
| | 95 | 27 | 345 | 135 | | 455 | | 140 | 55 | 200 | | 150 | 35 | 100 |

3.2 EDSS 安装尺寸 Installation Dimensions of EDSSD



轴指向表示 Shaft direction



| 型号规格 Model size | 法兰规格 Flange size | AB | AH | LA | LB | LC | LE | LZ | D | Q | T x V |
|--------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----------|
| EDSSD40 | 71B5 | 110 | 72 | 130 | 110 | 160 | 4 | M8 | Φ14 | 34 | 5 x 16.3 |
| EDSSD50 | 71B5 | 110 | 80 | 130 | 110 | 160 | 4 | M8 | Φ14 | 34 | 5 x 16.3 |
| EDSSD60 | 80B5 | 128 | 100 | 165 | 130 | 200 | 4.5 | M10 | Φ19 | 43 | 6 x 21.8 |
| EDSSD60B | 80B5 | 132 | 100 | 165 | 130 | 200 | 4.5 | M10 | Φ19 | 43 | 6 x 21.8 |
| EDSSD70 | 90B5 | 158 | 120 | 165 | 130 | 200 | 4.5 | M10 | Φ24 | 52 | 8 x 27.3 |
| EDSSD100 | 100/112B5 | 195 | 150 | 215 | 180 | 250 | 5 | M12 | Φ28 | 63 | 8 x 31.3 |
| EDSSD120 | 100/112B5 | 210 | 165 | 215 | 180 | 250 | 5 | M12 | Φ28 | 63 | 8 x 31.3 |
| EDSSD130 | 132B5 | 240 | 194 | 265 | 230 | 300 | 5 | M12 | Φ38 | 83 | 10 x 41.3 |
| EDSSD150 | 132B5 | 275 | 218 | 265 | 230 | 300 | 5 | M12 | Φ38 | 83 | 10 x 41.3 |

4. 选型方法

4.1 选型要素

4.1.1 总当量载荷计算

$$W_s = W_{max} \times f_s$$

W_s --当量载荷 W_{max} --最大载荷 f_s --使用系数(详见附表1)

表1 使用系数 f_s Table 1 using coefficient(f_s)

| | | | |
|---------------------------|--|--|---|
| 使用工况 using situation | 平稳载荷, 负荷惯性小 Smooth load; light load inertia | 轻微冲击载荷, 负荷惯性中等 light shock load; mid load inertia | 强冲击载荷, 负荷惯性大 strong shock load; heavy load inertia |
| 使用系数 using coefficient | 1.0~1.3 | 1.3~1.5 | 1.5~3.0 |

4.1.2 单台升降机当量载荷的计算

$$W = W_s / (S \times f_d)$$

W --单台当量载荷 W_s --当量载荷 S --联动台数 f_d --联动系数(详见附表2)

表2 联动系数 f_d Table 2 lindage coefficient(f_d)

| 联动台数 Lindage quantity | 1 | 2 | 3 | 4 | 5~8 |
|---------------------------|---|------|-----|------|-----|
| 使用系数 Using coefficient | 1 | 0.95 | 0.9 | 0.85 | 0.8 |

4.1.3 暂定升降机型号

根据载重、升降速度、行程、驱动源后暂时选定升降机型号(详情可参考“5. 选型参数”)。

4.1.4 丝杆行程选定

在充分考虑丝杆运动惯性、各种顶端输出部件等各种情况下，选择有充分余量的丝杆行程。

丝杆计算(详见表3, 丝杆行程用L表示, 单位(unit): mm)

表3 丝杆计算 Table 3 screw calcrlate

| 型号 Model | 丝杆直径 Screw dia | 护管长 Length of protect pipe | 丝杆头部S型 "S" type screw end | 丝杆头部H型 "H" type screw end | 丝杆头部R型 "R" type screw end | 丝杆头部T型 "T" type screw end |
|-------------|-------------------|-------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| EDSS35 | Tr26 x 5 | L+55 | L+150 | 总长-40 | L+20+165 | 总长-20-55 |
| EDSS40 | Tr32 x 6 | L+60 | L+180 | 总长-50 | L+25+195 | 总长-25-65 |
| EDSS50 | Tr38 x 6 | L+60 | L+180 | 总长-50 | L+25+195 | 总长-25-65 |
| EDSS60 | Tr46 x 8 | L+65 | L+220 | 总长-60 | L+32+255 | 总长-32-95 |
| EDSS60B | Tr52 x 8 | L+65 | L+220 | 总长-60 | L+32+255 | 总长-32-95 |
| EDSS70 | Tr65 x 10 | L+75 | L+260 | 总长-80 | L+35+295 | 总长-35-115 |
| EDSS100 | Tr75 x 12 | | L+300 | 总长-80 | L+44+355 | 总长-44-135 |
| EDSS120 | Tr80 x 12 | | L+360 | 总长-100 | L+54+410 | 总长-54-150 |
| EDSS130 | Tr90 x 14 | | L+435 | 总长-120 | L+64+480 | 总长-64-165 |
| EDSS150 | Tr100 x 16 | | L+495 | 总长-150 | L+70+545 | 总长-70-200 |

4.1.5 丝杆稳定性校核

$$P_{cr} = f_m \times (d^2/L_a)^2$$

应确保 $P_{cr} > W \times S_f$ (一般 $S_f=4$)

P_{cr} --丝杆临界载荷(N) f_m --长度系数(详见附表4) d --丝杆底径(mm)(详见附表5)

L_a --作用点间距(mm) W --单台升降机当量载荷(N) S_f --安全系数(一般取4)

表4 长度系数(f_m) Table 4 Length coefficient

| | | |
|---|---|---|
| | | |
| 两端支撑 $f_m = 10 \times 10^4$ Two ends sustained | 底座固定, 轴端自由 $f_m = 2.5 \times 10^4$ Baseplate fixed, shaft end free | 底座固定, 轴端支撑或固定 $f_m = 20 \times 10^4$ Baseplate fixed, shaft end sustained or fixed |

4.1.6 丝杆转速校核

$$n_c = 96 \times 10^5 \times f_n \times d/L_b^2$$

应确保 $n_c > n_1/i$

n_c --丝杆临界转速(r/min) f_n --支撑系数(详见附表6) d --丝杆底径(mm)(详见附表5)

L_b --支撑间距离(mm) n_1 --输入转速(r/min) i --减速比

4.1.7 输入功率校核

$$P = n_1 \times p_1 \times w / 9549 \times 2\pi \times i \times \eta$$

应确保 $P < P_{额}$

P --所需输入功率(KW) n_1 --输入转速(r/min) p_1 --丝杆螺距(mm)

w --单台升降机当量载荷(KN) π --圆周率 i --减速比 η --综合效率

表5 丝杆底径 d Table 5 Diameter of screw bottom

| 型号 Model | EDSS35 | EDSS40 | EDSS50 | EDSS60 | EDSS60B | EDSS70 | EDSS100 | EDSS120 | EDSS130 | EDSS150 |
|----------------------------------|--------|--------|--------|--------|---------|--------|---------|---------|---------|---------|
| 丝杆底径 Diameter of screw bottom | 20.5 | 25 | 31 | 37 | 43 | 54 | 62 | 67 | 74 | 82 |

表6 支撑系数 f_n Table 6 Sustain coefficient(f_n)

| | |
|-------------------------------------|--------------------------------------|
| | |
| 轴端自由 $f_n = 0.36$ Shaft end free | 轴端支撑 $f_n = 1.56$ Shaft end fixed |

4 Methods for model chosen

4.1 Selection points

4.1.1 Calculate total current load

$W_s = W_{max} \times f_s$
 W_s --current load W_{max} --max load f_s --using coefficient (more information from table1)

4.1.2 Calculate current load of unit screw lifter

$W = W_s / (S \times f_d)$
 W --unit current load W_s --current load S --linkage quantity
 f_d --linkage coefficient(more information from table 2)

3.1.3 Choose screw model

Choose screw model according to capacity,lifiting speed,stroke and drive fountainhead.

4.1.4 Option stroke of screw

Choose adequate stroke of screw with concerning enough screw movement inertia.

Calculate screw(more information from table 3)

4.1.5 Check screw stability

$P_{cr} = f_m \times (d^2/L_a)^2$ Should insure $P_{cr} > W \times S_f$ (usual $S_f=4$)
 P_{cr} --Screw critical loading(N) f_m --Length coefficient(more information from table 4)
 d --diameter of screw bottom(mm)(more information from table 5) L_a --working length(mm)
 W --Current load of unit screw lifter(N) S_f --security coefficient(usual $S_f=4$)

4.1.6 check screw speed

$n_c = 96 \times 10^6 \times f_n x d / L_b^2$
should insure $n_c > n_i / i$
 n_c --Permissible rotation speed of screw(r/min); f_n --Sustain coefficient (more in formation from table 6);
 d --diameter of screw bottom(mm)(more infor mation from table 5);
 L_b --the distance between sustain(mm). n_i --input speed(r/min); i --ratio;

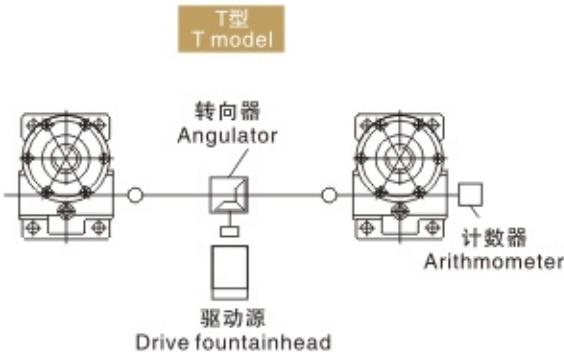
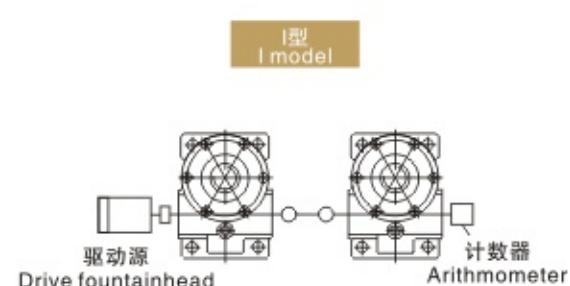
4.1.7 check input power

$P = n_i \times p_i \times \pi / 9549 \times 2\pi \times i \times \eta$
should insure $P < P_{need}$
 P --needed input power(KW); n_i --input shaft screwing speed(r/min); p_i --axial pitch distance(mm)
 W --current load(KN); π --pi i --ratio η --general efficiency

4.2 选型示例

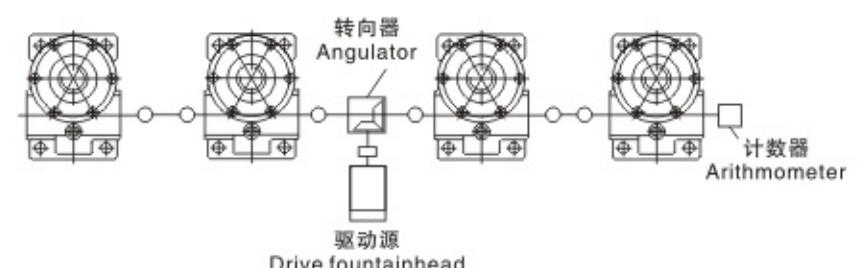
4.2 Selection example

4.2.1 两台联动 Two sets linkage

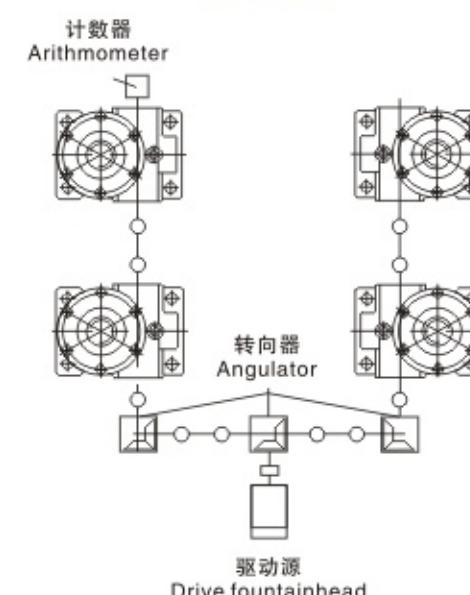


4.2.2 四台联动 four sets linkage

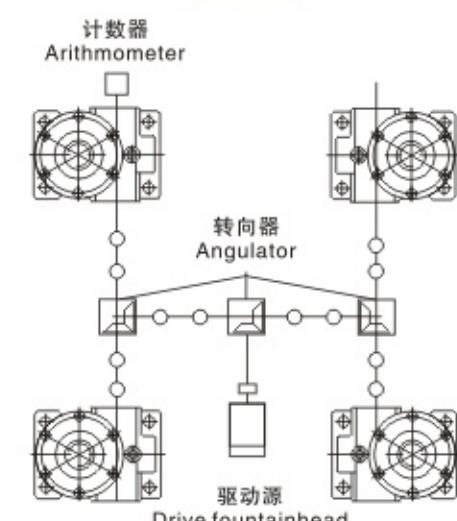
T发展型
T development model



U型
U model

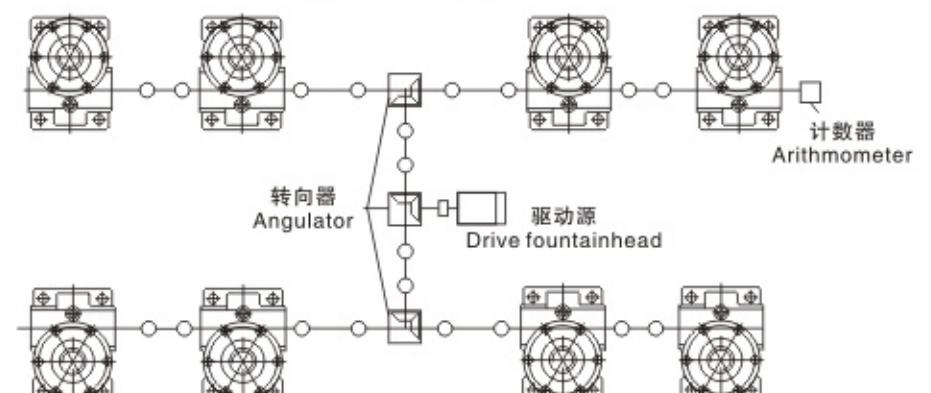


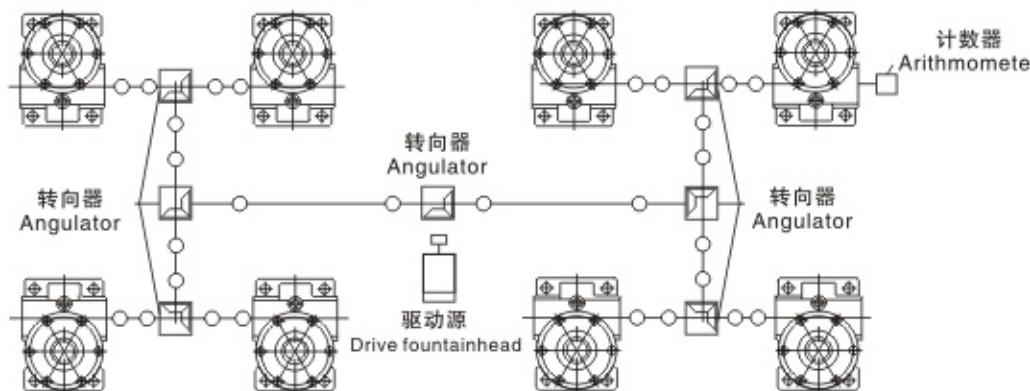
H型
H model



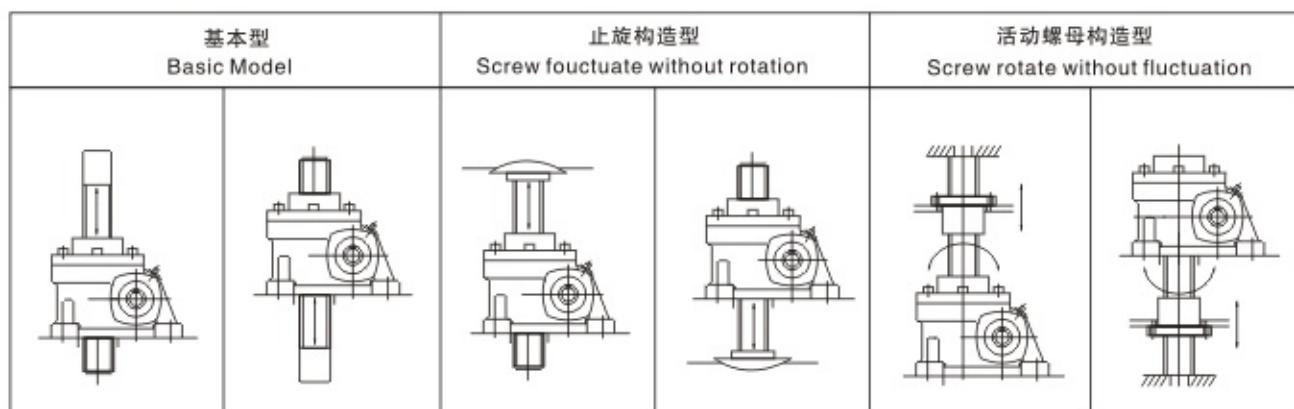
4.2.3 八台联动 Eight sets linkage

H发展型
H development model



2H型
Two H model

4.3 安装方式 4.3. Mounting Option



说明:

1、基本形式: 螺母(蜗轮)转动丝杆上下移动, 此为普通型升降机安装方式。

※注意: 丝杆在升降时, 会产生旋转力, 所以必须做好防止旋转的措施。

2、止旋构造型: 适用于顶端无连接下运转等各种不能实现防止旋转的场合。

3、若想在有限的空间增长行程, 可选用活动螺母(由用户自行设计制造配丝杆)构造型。此构造为丝杆旋转,

活动螺母移动。若行程较长时, 轴端应采用支撑方式, 可得到很好的传动效果。

Explanation:

1、Basic Model: Screw fluctuate With Rotation. This is the installation for basic screw lifter.

※Notice:There will be rotation force when screw is ascending and descending. So it's need to prevent rotation.

2、Screw fluctuate without rotation:work under the situation(without connection on the top,etc.)Which can't prevent from rotating.

3、Screw rotate with travelling nut:This type is suitable for narrow space.If it has long stroke, shaft end should be supported for better transmission.

5. 选型参数 Capacity and Model Selection

| 型号 规格 Model size | 传动 Ratio | 输入轴转速 1800r/min | | | 输入轴转速 1500r/min | | | 输入轴转速 1200r/min | | | 输入轴转速 900r/min | | | 输入轴转速 600r/min | | | 输入轴转速 300r/min | | |
|------------------------|-------------|--------------------|-------------|-----------------|--------------------|-------------|-----------------|--------------------|-------------|-----------------|-------------------|-------------|-----------------|-------------------|-------------|-----------------|-------------------|-------------|-----------------|
| | | 输入功率 (kw) | 起升力 (kg) | 起升速度 (m/min) | 输入功率 (kw) | 起升力 (kg) | 起升速度 (m/min) | 输入功率 (kw) | 起升力 (kg) | 起升速度 (m/min) | 输入功率 (kw) | 起升力 (kg) | 起升速度 (m/min) | 输入功率 (kw) | 起升力 (kg) | 起升速度 (m/min) | 输入功率 (kw) | 起升力 (kg) | 起升速度 (m/min) |
| EDSS35 | 1/5 | 0.69 | 500 | 1.80 | 0.64 | 550 | 1.50 | 0.65 | 700 | 1.20 | 0.63 | 900 | 0.90 | 0.46 | 1000 | 0.60 | 0.37 | 1000 | 0.30 |
| | 1/10 | 0.37 | 500 | 0.90 | 0.37 | 550 | 0.75 | 0.37 | 700 | 0.60 | 0.37 | 950 | 0.45 | 0.37 | 1000 | 0.30 | 0.19 | 1350 | 0.15 |
| | 1/20 | 0.37 | 600 | 0.45 | 0.37 | 700 | 0.38 | 0.37 | 900 | 0.30 | 0.37 | 1200 | 0.23 | 0.19 | 1350 | 0.15 | 0.19 | 1350 | 0.08 |
| EDSS40 | 1/6 | 0.98 | 700 | 1.80 | 0.93 | 800 | 1.50 | 0.88 | 950 | 1.20 | 0.91 | 1300 | 0.90 | 0.84 | 1800 | 0.60 | 0.42 | 1800 | 0.30 |
| | 1/12 | 0.66 | 950 | 0.90 | 0.64 | 1100 | 0.75 | 0.61 | 1300 | 0.60 | 0.57 | 1650 | 0.45 | 0.46 | 2000 | 0.30 | 0.37 | 2000 | 0.15 |
| | 1/24 | 0.37 | 950 | 0.45 | 0.37 | 1100 | 0.38 | 0.37 | 1300 | 0.30 | 0.37 | 1650 | 0.23 | 0.37 | 2000 | 0.15 | 0.19 | 2000 | 0.08 |
| EDSS50 | 1/6 | 1.39 | 900 | 1.80 | 1.28 | 1000 | 1.50 | 1.24 | 1200 | 1.20 | 1.16 | 1500 | 0.90 | 0.87 | 1700 | 0.60 | 0.54 | 2100 | 0.30 |
| | 1/12 | 1.10 | 1350 | 0.90 | 1.01 | 1500 | 0.75 | 0.98 | 1800 | 0.60 | 0.87 | 2150 | 0.45 | 0.58 | 2150 | 0.30 | 0.37 | 2500 | 0.15 |
| | 1/24 | 0.78 | 1800 | 0.45 | 0.72 | 2000 | 0.38 | 0.69 | 2400 | 0.30 | 0.55 | 2550 | 0.23 | 0.42 | 2900 | 0.15 | 0.37 | 2850 | 0.08 |
| EDSS60 | 1/8 | 2.12 | 1300 | 1.80 | 1.97 | 1450 | 1.50 | 1.85 | 1700 | 1.20 | 1.72 | 2100 | 0.90 | 1.66 | 3050 | 0.60 | 1.31 | 4800 | 0.30 |
| | 1/16 | 1.12 | 1300 | 0.90 | 1.04 | 1450 | 0.75 | 0.98 | 1700 | 0.60 | 0.95 | 2200 | 0.45 | 0.87 | 3050 | 0.30 | 0.69 | 4800 | 0.15 |
| | 1/32 | 0.80 | 1750 | 0.45 | 0.75 | 1950 | 0.38 | 0.69 | 2250 | 0.30 | 0.64 | 2800 | 0.23 | 0.63 | 4100 | 0.15 | 0.48 | 6400 | 0.08 |
| EDSS60B | 1/8 | 2.00 | 1300 | 1.80 | 1.86 | 1450 | 1.50 | 1.75 | 1700 | 1.20 | 1.62 | 2100 | 0.90 | 1.57 | 3050 | 0.60 | 1.24 | 4800 | 0.30 |
| | 1/16 | 1.06 | 1300 | 0.90 | 0.98 | 1450 | 0.75 | 0.93 | 1700 | 0.60 | 0.89 | 2200 | 0.45 | 0.83 | 3050 | 0.30 | 0.65 | 4800 | 0.15 |
| | 1/32 | 0.75 | 1750 | 0.45 | 0.70 | 1950 | 0.38 | 0.65 | 2250 | 0.30 | 0.61 | 2800 | 0.23 | 0.59 | 4100 | 0.15 | 0.46 | 6400 | 0.08 |
| EDSS70 | 1/10 | 2.66 | 1400 | 1.80 | 2.42 | 1850 | 1.50 | 2.25 | 1950 | 1.20 | 2.12 | 2450 | 0.90 | 1.93 | 3350 | 0.60 | 1.41 | 4900 | 0.30 |
| | 1/20 | 1.42 | 1600 | 0.90 | 1.47 | 1850 | 0.75 | 1.37 | 2250 | 0.60 | 1.28 | 2800 | 0.45 | 1.18 | 3850 | 0.30 | 0.86 | 5600 | 0.15 |
| | 1/40 | 1.14 | 2400 | 0.45 | 1.17 | 2800 | 0.38 | 1.09 | 3350 | 0.30 | 1.07 | 4400 | 0.23 | 0.93 | 5750 | 0.15 | 0.69 | 8400 | 0.08 |
| EDSS100 | 1/12 | 3.62 | 1850 | 1.80 | 3.51 | 2150 | 1.50 | 3.39 | 2600 | 1.20 | 3.18 | 3250 | 0.90 | 2.94 | 4500 | 0.60 | 2.09 | 6400 | 0.30 |
| | 1/18 | 2.65 | 1900 | 1.20 | 2.68 | 2300 | 1.00 | 2.57 | 2750 | 0.80 | 2.45 | 3500 | 0.60 | 2.19 | 4700 | 0.40 | 1.56 | 6700 | 0.20 |
| | 1/36 | 1.66 | 2200 | 0.60 | 1.63 | 2600 | 0.50 | 1.60 | 3200 | 0.40 | 1.47 | 3900 | 0.30 | 1.36 | 5400 | 0.20 | 1.20 | 9600 | 0.10 |
| EDSS120 | 1/12 | 4.15 | 1975 | 1.80 | 4.02 | 2300 | 1.50 | 3.81 | 2725 | 1.20 | 3.80 | 3625 | 0.90 | 3.48 | 4975 | 0.60 | 2.48 | 7050 | 0.30 |
| | 1/18 | 3.20 | 2125 | 1.20 | 3.20 | 2550 | 1.00 | 3.04 | 3025 | 0.80 | 3.03 | 4025 | 0.60 | 2.74 | 5450 | 0.40 | 1.94 | 7725 | 0.20 |
| | 1/36 | 2.14 | 2625 | 0.60 | 2.07 | 3050 | 0.50 | 1.98 | 3650 | 0.40 | 1.99 | 4875 | 0.30 | 1.80 | 6600 | 0.20 | 1.40 | 10300 | 0.10 |
| EDSS130 | 1/7 | 9.47 | 2100 | 3.60 | 9.17 | 2450 | 3.00 | 9.02 | 2850 | 2.40 | 8.58 | 4000 | 1.80 | 8.20 | 5450 | 1.20 | 5.84 | 7750 | 0.60 |
| | 1/14 | 5.76 | 2350 | 1.80 | 5.71 | 2800 | 1.50 | 5.57 | 3300 | 1.20 | 5.39 | 4550 | 0.90 | 5.06 | 6200 | 0.60 | 3.57 | 8750 | 0.30 |
| | 1/28 | 4.07 | 3050 | 0.90 | 3.89 | 3500 | 0.75 | 3.91 | 4100 | 0.60 | 3.65 | 5850 | 0.45 | 3.48 | 7800 | 0.30 | 2.45 | 11000 | 0.15 |
| EDSS150 | 1/8 | 16.3 | 3500 | 3.60 | 16.1 | 4000 | 3.00 | 15.8 | 5400 | 2.40 | 15.1 | 7100 | 1.80 | 14.8 | 9850 | 1.20 | 9.70 | 12950 | 0.60 |
| | 1/16 | 11.7 | 4300 | 1.80 | 11.6 | 5400 | 1.50 | 10.5 | 7200 | 1.20 | 11.00</td | | | | | | | | |

6. 使用说明

6.1 产品说明

- 6.1.1 EDSS系列蜗轮丝杆升降机（又名千斤顶）；
- 6.1.2 具有结构紧凑、体积小的特点；
- 6.1.3 安装方便、形式多；
- 6.1.4 可靠性高、寿命长；
- 6.1.5 具有起升、下降及借助辅件推进、翻转等多种功能；
- 6.1.6 可单台使用，也可多台组成使用；
- 6.1.7 动力源广泛，可用电动机或其它动力直接带动，也可以用手动；
- 6.1.8 通常用于低速重载的场合。广泛应用于冶金、机械、建筑、水利、医疗、化工等各个行业。

6.2 使用注意事项

- 6.2.1 请严格按承载能力表选择合适的速比和与之对应的具有充分裕度的载荷的升降机；
- 6.2.2 升降机工作时应控制减速机表面和升降螺母表面温度在-15°C~80°C；
- 6.2.3 升降机不得连续运转，单台升降机的负荷时间率（T%）以30分钟为单位计算，不得超过20%；

$$\text{负荷时间率T\%} = \frac{\text{1动作周期的工作时间}}{\text{1动作周期的工作时间} + \text{1动作周期的停歇时间}} \times 100\%$$

- 6.2.4 必须保证有足够的驱动源动力；
- 6.2.5 升降机理论上自锁功能，但在振动冲击较大的场合会造成自锁功能失灵，请务必加制动装置；
- 6.2.6 升降机使用环境：

| | |
|------------------------------|---|
| 使用环境 Using situation | 室内无雨水侵入的场所 No rain and water |
| 周围空气 Ambient air | 灰尘为一般工石状况 Dust: usual condition for mill |
| 环境温度 Ambient temperature | -15°C~40°C |
| 相对湿度 Comparative humidity | 85%以下 Below 85% |

- 6.2.7 升降机工作时一般不允许有横向载荷，若有横向载荷时，请加导向装置。

6. Operating instructions

6.1 Product Introduction

- 6.1.1 EDSS series worm gear screw lifter (other name is Jack);
- 6.1.2 Compact structure, small size;
- 6.1.3 Easy mounting, varied types;
- 6.1.4 High reliability. Long service Life;
- 6.1.5 With the function of ascending, descending, thrusting, overturning;
- 6.1.6 Can be applied in one unit or multiple units;
- 6.1.7 Wide motivity. It can be driven by electrical motor and manual force;
- 6.1.8 It is usually used in low speed situation, widely used in the fields of metallurht,mechanical, construction, chemical, irrigation works,medical treatment.

6.2 Notices of usage

- 6.2.1 Select the model with proper ratio and load.
- 6.2.2 The surface temperature of speed reducer and nut should be controlled in -15°C~80°C when the screw lifter is working.
- 6.2.3 The screw lifter cannot work all the time.the unit is thirty mins for duty ratio of unit one and can not exceed 20%.

$$\text{Dutyratio (T\%)} = \frac{\text{Time under working/cycle}}{\text{Time under working/cycle} + \text{interval/cycle}} \times 100\%$$

- 6.2.4 Insure adequate drive fountainhead.
- 6.2.5 Theoretically screw has self-lock function,but the self-lock function may not work in heavy shock condition;
- 6.2.6 Using situation for screw lifter.
- 6.2.7 Transverse load is not allowed when screw lifter is working . If transverse load occurred,please add direction setting.

7. 油品润滑 Lubricant

7.1 润滑油（脂）选用表

Lubricants for reducer used in can be chosen as the table below

| 蜗杆转速 (r/min) Worm shaft speed(r/min) | 润滑油（脂）类型 Lubricant |
|---|-----------------------|
| 1500~1800 | ISO VG680 |
| 300~1500 | ZHG-1或ZNG-2 |

注：合成钙钠基润滑脂温度范围-20°C~100°C

Note: The temperature range of synthetic lime-sode basic lubricant grease ZNG-1 or ZNG-2 is-20°C~100°C

7.2 润滑油（脂）注油量 (L) Lubricants capacity(L)

| 型号 Type | EDSS35 | EDSS40 | EDSS50 | EDSS60 | EDSS60B | EDSS70 | EDSS100 | EDSS120 | EDSS130 | EDSS150 |
|---------------------------|--------|--------|--------|--------|---------|--------|---------|---------|---------|---------|
| 规格 Size | 0.06 | 0.1 | 0.2 | 0.35 | 0.4 | 0.5 | 1.5 | 2.2 | 3.5 | 4.0 |
| 注油量 Lubricant capacity | | | | | | | | | | |

8. 故障分析

| 故障情况 | 故障原因 | 解决办法 |
|-----------|----------------|---------------------|
| 振动 | 原动机与升降机连接不当 | 调整至适当位置，重新正解固紧 |
| | 蜗轮副齿部磨耗或损伤 | 更换蜗轮副（需要时本公司配合） |
| | 轴承磨损 | 更换轴承 |
| | 螺栓松脱 | 固紧螺栓 |
| 杂音 | 轴承损伤或间隙过大 | 更换轴承 |
| | 蜗轮副啮合不良 | 修整齿面或更换蜗轮副（请与本公司联系） |
| | 润滑油（脂）过少 | 补加润滑油（脂） |
| 漏油 | 油封唇口磨损 | 更换油封 |
| | 油封档轴颈磨损 | 更换输入轴或蜗轮 |
| 蜗轮副齿面磨损过快 | 超负荷运转 | 调整至适当负荷 |
| | 润滑油（脂）不符合要求 | 按油品润滑更换润滑油（脂） |
| | 润滑油（脂）过少 | 补加润滑油（脂） |
| | 未按规定适时换油，润滑油劣化 | 按规定要求适时换油 |
| | 运转温度过高 | 采取合适措施，降低环境温度 |
| 丝杆副齿面磨损过快 | 超负荷运转 | 调整至适当负荷 |
| | 润滑脂干枯或变质 | 去污擦净，重新加润滑脂 |
| | 有横向载荷 | 加导向装置 |

注：如果发生其他故障无法解决时，请随时与我们联系，以便提供咨询服务。

8. Malfunctions Analysis

| Fault Description | Reasons | Solutions |
|--|---|---|
| Vibration | Improper connection among prime mover and lifter | Adjust to proper position |
| | Tooth surface of worm gear sets worn-out or damaged | Replace worm gear sets(We will cooperate with you when necessary) |
| | Bearing worn-out | Replace bearing |
| | Bolt loose | Tighten screw |
| Noise | Bearing damaged or too large clearance | Replace bearing |
| | Worm gear sets mesh badly | Mend tooth surface or replace worm gear sets (please contact to us) |
| | Lubricant shortage | Fill in adequate oil as indication |
| Oil leakage | Oil seal lip worn-out | Replace oil seal |
| | Shaft of oil seal area worn-out | Replace input or worm gear |
| Tooth surface of worm gear set abrade extra-quickly | Over load | Adjust to proper loading |
| | Lubricant oil not according with requirement | Replace proper lubricant oil |
| | Lubricant shortage | Fill adequate oil as indication |
| | Not replacing lubricant oil in time according to requirement,oil deteriorates | Replacing oil in time according to requirement |
| | Overheating while running | Adopting proper measures to make environment temperature fall |
| Screw surface of worm gear sets abrade extra-quickly | Over loading | Adjust to proper loading |
| | lubricant shortage or gone bad | Wash over dirty oil and refill proper lubricant |
| | There is transverse load | Add direction setting |

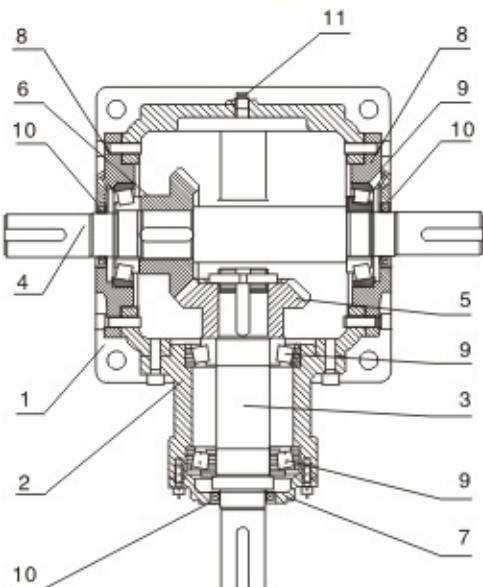
Note: If other faults not listed above occur, please contact to us at any moment. We will supply thorough consultation and service.

八、EDTM 系列螺旋伞齿轮转向器 EDTM SERIES SPIRAL BEVEL GEAR STEERING DEVICE

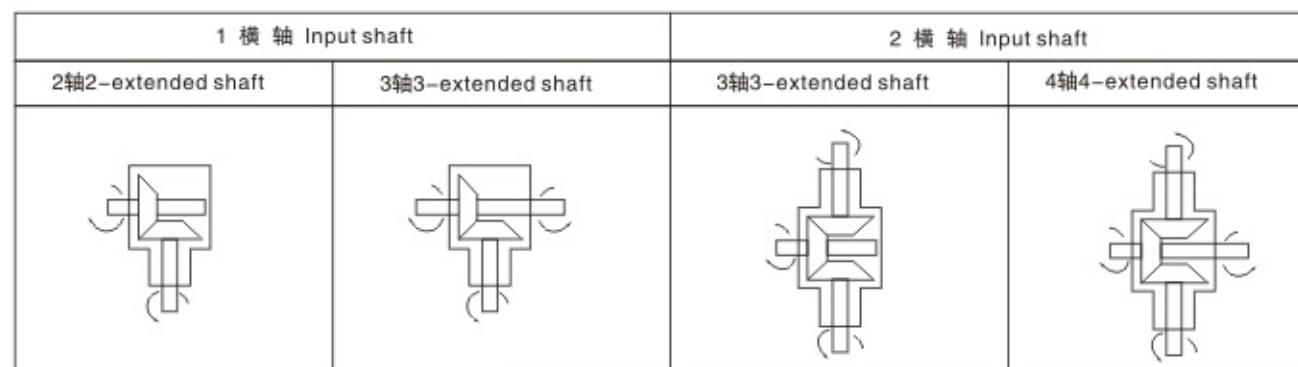
1、概述 Summarization

- EDTM系列螺旋伞齿轮转向器；产品规格2~25; 传动比1~5; 输入功率0.014~335KW; 输出转矩11~5713N·m。共10大规格15000余种不同的形式、传动比、联接和安装方式可供选用。
- 其它产品：公司可根据用户需要，研究开发设计制造专用产品。以满足用户的各种需求。
- EDTM series spiral bevel gear steering device: specification 2~25; ratio 1~5; input power 0.014~335KW; output 11~5713 N·m. Totally ten series with more than 15000 combinations in different ratios, connections and mountion positions are optional.
- Other products: our company can research, develop, design and produce customer tailored products to meet the different demand of customers.

2、EDTM 系列结构图 EDTM series structure drawing

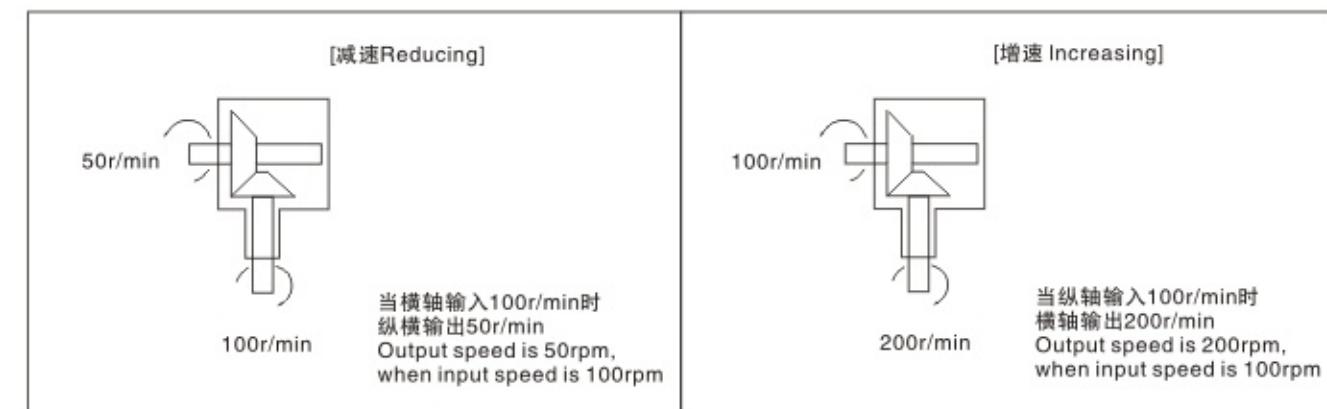


3、转向功能 Function of rotation

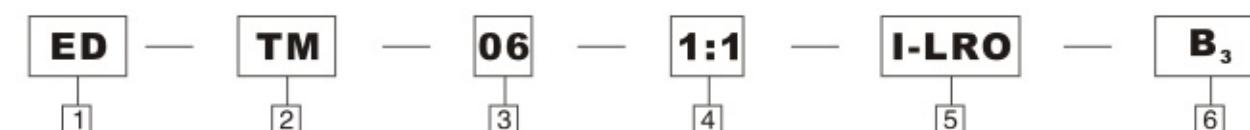


说明：当输入轴旋转方向改变，输出轴相应改变。
Specification: Direction of rotation of output shaft varies with that of input shaft.

4、选定输入轴时就注意转速关系:(1:1传动比时无关)
Pay attention to the ration when fixing the input side
(there is nothing in case of ratio of 1:1)



5、型号表示方法 EDTM series model notes



6、EDTM 系列重量表 EDTM series weight table

| Type | EDTM02 | EDTM04 | EDTM06 | EDTM07 | EDTM08 | EDTM10 | EDTM12 | EDTM16 | EDTM20 | EDTM25 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| m(kg) | 2 | 10 | 21 | 32 | 49 | 78 | 124 | 188 | 297 | 488 |

7、EDTM 系列Fr(N)表 EDTM series Fr(N) table

| i_N | n1 (r/min) | EDTM02 | | EDTM04 | | EDTM06 | | EDTM07 | | EDTM08 | | EDTM10 | | EDTM12 | | EDTM16 | | EDTM20 | | EDTM25 | |
|-------|---------------|--------|-----|--------|------|--------|------|--------|------|--------|------|--------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|
| | | 横轴 | 纵轴 | 横轴 | 纵轴 | 横轴 | 纵轴 | 横轴 | 纵轴 | 横轴 | 纵轴 | 横轴 | 纵轴 | 横轴 | 纵轴 | 横轴 | 纵轴 | 横轴 | 纵轴 | 横轴 | 纵轴 |
| 1:1 | 1450 | 265 | 216 | 833 | 951 | 1911 | 2450 | 2450 | 3136 | 3234 | 3381 | 4165 | 4508 | 5096 | 5586 | 10633 | 10976 | | | | |
| | 1150 | 323 | 235 | 882 | 1029 | 2058 | 2597 | 2744 | 3234 | 3479 | 3626 | 4459 | 4851 | 5488 | 6076 | 11368 | 11760 | 15386 | 15608 | | |
| | 870 | 402 | 255 | 960 | 1127 | 2205 | 2842 | 2989 | 3381 | 3773 | 3969 | 4851 | 5292 | 5880 | 6566 | 12446 | 12740 | 16660 | 17150 | 24794 | 25480 |
| | 580 | 549 | 314 | 1078 | 1323 | 2499 | 3185 | 3381 | 3822 | 4263 | 4459 | 5488 | 5880 | 6713 | 7301 | 14014 | 14504 | 18816 | 19404 | 28028 | 28910 |
| | 400 | 637 | 353 | 1372 | 1715 | 3185 | 3528 | 4018 | 4900 | 4851 | 5978 | 6272 | 7056 | 7742 | 8134 | 15680 | 16170 | 21070 | 21756 | 31360 | 32340 |
| | 300 | 696 | 392 | 1519 | 1960 | 3430 | 3528 | 4410 | 5537 | 5243 | 6958 | 6713 | 7987 | 8232 | 9065 | 17150 | 17640 | 23422 | 24108 | 34300 | 35280 |
| | 200 | 784 | 441 | 1911 | 1960 | 3430 | 3528 | 5096 | 6272 | 7889 | 8820 | 8575 | 9604 | 9261 | 10290 | 19600 | 19894 | 25970 | 26754 | 38612 | 39788 |
| | 100 | 980 | 588 | 1911 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11368 | 12593 | 22540 | 22540 | 28420 | 32928 | 39200 | 49000 |
| | 10 | 980 | 588 | 1911 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 22540 | 22540 | 28420 | 33320 | 39200 | 49000 |
| 1:5:1 | 1450 | | | 1078 | 1960 | 2548 | 2842 | 3430 | 5390 | 4361 | 7987 | 5194 | 9212 | 5978 | 10486 | 5978 | 12152 | 7693 | 14602 | | |
| | 1150 | | | 1078 | 1960 | 3038 | 3087 | 4067 | 5978 | 5096 | 8820 | 6174 | 10486 | 7252 | 12152 | 6419 | 13083 | 8771 | 17934 | 12985 | 24647 |
| | 870 | | | 1078 | 1960 | 3430 | 3332 | 4753 | 6076 | 6076 | 8820 | 7448 | 11760 | 8869 | 14504 | 6958 | 14210 | 9506 | 19453 | 13573 | 29400 |
| | 580 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6174 | 7644 | 8820 | 9555 | 11760 | 11466 | 14504 | 7840 | 16072 | 10780 | 22001 | 15680 | 33222 |
| | 400 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 8820 | 17934 | 12005 | 24598 | 17542 | 37142 |
| | 300 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 9604 | 19600 | 13132 | 27342 | 19159 | 40474 |
| | 200 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 10829 | 22148 | 14798 | 30282 | 21658 | 45766 |
| | 100 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 13328 | 22540 | 18228 | 33320 | 26656 | 49000 |
| | 10 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 22540 | 22540 | 28420 | 33320 | 39200 | 49000 |
| 2:1 | 1450 | | | 1078 | 1960 | 2548 | 2842 | 3430 | 5390 | 4361 | 7987 | 5194 | 9212 | 5978 | 10486 | 5978 | 12152 | 7693 | 14602 | | |
| | 1150 | | | 1078 | 1960 | 3038 | 3087 | 4067 | 5978 | 5096 | 8820 | 6174 | 10486 | 7252 | 12152 | 6419 | 13083 | 8771 | 17934 | 12985 | 24647 |
| | 870 | | | 1078 | 1960 | 3430 | 3332 | 4753 | 6076 | 6076 | 8820 | 7448 | 11760 | 8869 | 14504 | 6958 | 14210 | 9506 | 19453 | 13573 | 29400 |
| | 580 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6174 | 7644 | 8820 | 9555 | 11760 | 11466 | 14504 | 7840 | 16072 | 10780 | 22001 | 15680 | 33222 |
| | 400 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 8820 | 17934 | 12005 | 24598 | 17542 | 37142 |
| | 300 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 9604 | 19600 | 13132 | 27342 | 19159 | 40474 |
| | 200 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 10829 | 22148 | 14798 | 30282 | 21658 | 45766 |
| | 100 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 13328 | 22540 | 18228 | 33320 | 26656 | 49000 |
| | 10 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 22540 | 22540 | 28420 | 33320 | 39200 | 49000 |
| 2.5:1 | 1450 | | | 1078 | 1960 | 2548 | 2842 | 3430 | 5390 | 4361 | 7987 | 5194 | 9212 | 5978 | 10486 | 5978 | 12152 | 7693 | 14602 | | |
| | 1150 | | | 1078 | 1960 | 3038 | 3087 | 4067 | 5978 | 5096 | 8820 | 6174 | 10486 | 7252 | 12152 | 6419 | 13083 | 8771 | 17934 | 12985 | 24647 |
| | 870 | | | 1078 | 1960 | 3430 | 3332 | 4753 | 6076 | 6076 | 8820 | 7448 | 11760 | 8869 | 14504 | 6958 | 14210 | 9506 | 19453 | 13573 | 29400 |
| | 580 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6174 | 7644 | 8820 | 9555 | 11760 | 11466 | 14504 | 7840 | 16072 | 10780 | 22001 | 15680 | 33222 |
| | 400 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 8820 | 17934 | 12005 | 24598 | 17542 | 37142 |
| | 300 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760</td | | | | | | | | |

EDTM 系列传动能力表 EDTM series transmission capacity table

| i_N | n1 (r/min) | EDTM02 | | EDTM04 | | EDTM06 | | EDTM07 | | EDTM08 | |
|-------|---------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
| | | Mn2 (N·m) | Pn1 (kW) |
| 1:1 | 1450 | 11.6 | 1.79 | 31.9 | 4.94 | 96.0 | 14.9 | 142 | 22.0 | 294 | 45.6 |
| | 1150 | 11.7 | 1.43 | 34.1 | 4.19 | 103 | 12.7 | 150 | 18.4 | 305 | 37.5 |
| | 870 | 12.1 | 1.12 | 37.2 | 3.46 | 113 | 10.5 | 164 | 15.2 | 312 | 29.0 |
| | 580 | 12.1 | 0.747 | 39.5 | 2.45 | 119 | 7.35 | 184 | 11.4 | 319 | 19.8 |
| | 400 | 12.3 | 0.524 | 40.2 | 1.72 | 122 | 5.20 | 195 | 8.34 | 326 | 14.0 |
| | 300 | 12.3 | 0.396 | 40.5 | 1.30 | 123 | 3.93 | 198 | 6.35 | 331 | 10.6 |
| | 200 | 12.4 | 0.226 | 41.2 | 0.880 | 124 | 2.66 | 201 | 4.30 | 338 | 7.23 |
| | 100 | 12.7 | 0.136 | 41.9 | 0.448 | 127 | 1.36 | 206 | 2.20 | 346 | 3.70 |
| | 10 | 13.0 | 0.014 | 43.0 | 0.046 | 132 | 0.141 | 214 | 0.228 | 361 | 0.386 |
| | 1450 | | | | | 117 | 12.1 | 145 | 15.0 | 185 | 19.1 |
| 1:5:1 | 1150 | | | | | 122 | 9.96 | 147 | 12.0 | 188 | 15.4 |
| | 870 | | | | | 123 | 7.66 | 150 | 9.30 | 191 | 11.8 |
| | 580 | | | | | 126 | 5.23 | 153 | 6.32 | 197 | 8.14 |
| | 400 | | | | | 128 | 3.66 | 155 | 4.41 | 200 | 5.70 |
| | 300 | | | | | 129 | 2.77 | 157 | 3.35 | 203 | 4.34 |
| | 200 | | | | | 131 | 1.87 | 160 | 2.28 | 204 | 2.91 |
| | 100 | | | | | 134 | 0.957 | 163 | 1.16 | 210 | 1.49 |
| | 10 | | | | | 139 | 0.099 | 169 | 0.12 | 218 | 0.155 |
| | 1450 | 12.1 | 0.94 | 42.8 | 3.32 | 102 | 7.90 | 137 | 10.6 | 180 | 14.0 |
| | 1150 | 12 | 0.74 | 43.4 | 2.67 | 104 | 6.39 | 139 | 8.55 | 183 | 11.3 |
| 2:1 | 870 | 12 | 0.56 | 43.8 | 2.04 | 105 | 4.88 | 141 | 6.56 | 187 | 8.70 |
| | 580 | 11.9 | 0.37 | 44.4 | 1.38 | 108 | 3.34 | 144 | 4.47 | 191 | 5.92 |
| | 400 | 12.2 | 0.26 | 45.1 | 0.96 | 109 | 2.33 | 146 | 3.12 | 194 | 4.15 |
| | 300 | 11.9 | 0.19 | 45.5 | 0.73 | 110 | 1.76 | 148 | 2.37 | 196 | 3.14 |
| | 200 | 12.2 | 0.13 | 46.1 | 0.49 | 111 | 1.18 | 149 | 1.59 | 198 | 2.12 |
| | 100 | 11.2 | 0.06 | 46.6 | 0.25 | 114 | 0.608 | 152 | 0.812 | 202 | 1.08 |
| | 10 | 28.1 | 0.015 | 48.5 | 0.026 | 116 | 0.062 | 157 | 0.084 | 209 | 0.112 |
| | 1450 | | | | | 96.2 | 5.97 | 113 | 6.99 | 184 | 11.4 |
| | 1150 | | | | | 97.2 | 4.78 | 115 | 5.64 | 185 | 9.11 |
| | 870 | | | | | 99.0 | 3.68 | 116 | 4.30 | 188 | 7.00 |
| 2.5:1 | 580 | | | | | 100.0 | 2.48 | 118 | 2.92 | 192 | 4.76 |
| | 400 | | | | | 100.9 | 1.73 | 120 | 2.05 | 195 | 3.34 |
| | 300 | | | | | 102.9 | 1.32 | 121 | 1.55 | 197 | 2.53 |
| | 200 | | | | | 103.9 | 0.888 | 123 | 1.05 | 200 | 1.71 |
| | 100 | | | | | 104.9 | 0.448 | 123 | 0.528 | 203 | 0.867 |
| | 10 | | | | | 107.8 | 0.046 | 126 | 0.054 | 208 | 0.089 |
| | 1450 | | | | | 93.6 | 4.84 | 105 | 5.42 | 159 | 8.20 |
| | 1150 | | | | | 94.8 | 3.88 | 106 | 4.34 | 160 | 6.55 |
| | 870 | | | | | 95.9 | 2.97 | 108 | 3.34 | 163 | 5.04 |
| | 580 | | | | | 97.6 | 2.02 | 109 | 2.25 | 166 | 3.42 |
| 3:1 | 400 | | | | | 99.0 | 1.41 | 111 | 1.58 | 168 | 2.39 |
| | 300 | | | | | 100 | 1.07 | 111 | 1.18 | 169 | 1.80 |
| | 200 | | | | | 100 | 0.712 | 113 | 0.803 | 171 | 1.22 |
| | 100 | | | | | 102 | 0.363 | 115 | 0.409 | 173 | 0.618 |
| | 10 | | | | | 104 | 0.037 | 118 | 0.042 | 179 | 0.064 |
| | 1450 | | | | | 80.6 | 3.12 | 93.4 | 3.62 | 124 | 4.80 |
| | 1150 | | | | | 81.5 | 2.50 | 94.3 | 2.90 | 125 | 3.83 |
| | 870 | | | | | 82.4 | 1.92 | 95.9 | 2.23 | 127 | 2.95 |
| | 580 | | | | | 84.1 | 1.30 | 96.9 | 1.50 | 129 | 2.00 |
| | 400 | | | | | 85.1 | 0.91 | 98.7 | 1.05 | 131 | 1.40 |
| 4:1 | 300 | | | | | 86.1 | 0.69 | 98.3 | 0.79 | 131 | 1.05 |
| | 200 | | | | | 86.0 | 0.46 | 101 | 0.54 | 134 | 0.71 |
| | 100 | | | | | 87.7 | 0.23 | 101 | 0.27 | 135 | 0.36 |
| | 10 | | | | | 89.3 | 0.02 | 101 | 0.03 | 140 | 0.04 |
| | 1450 | | | | | 52.0 | 1.61 | 57.4 | 1.78 | 68.7 | 2.13 |
| | 1150 | | | | | 52.5 | 1.29 | 58.0 | 1.43 | 69.2 | 1.70 |
| | 870 | | | | | 53.2 | 0.99 | 59.0 | 1.10 | 70.4 | 1.31 |
| | 580 | | | | | 54.2 | 0.67 | 59.6 | 0.74 | 71.7 | 0.89 |
| | 400 | | | | | 54.9 | 0.47 | 60.7 | 0.52 | 72.6 | 0.62 |
| 5:1 | 300 | | | | | 55.5 | 0.36 | 60.4 | 0.39 | 72.9 | 0.47 |
| | 200 | | | | | 55.4 | 0.24 | 61.7 | 0.26 | 74.1 | 0.32 |
| | 100 | | | | | 56.5 | 0.12 | 62.9 | 0.13 | 75.1 | 0.16 |
| | 10 | | | | | 57.6 | 0.01 | 64.5 | 0.01 | 77.8 | 0.02 |

1、横辆转速未达到10r/min时,请使用10r/min的数据。

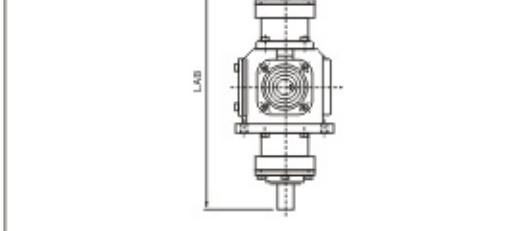
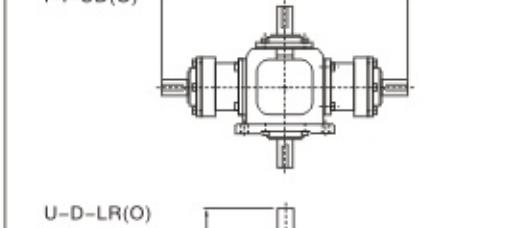
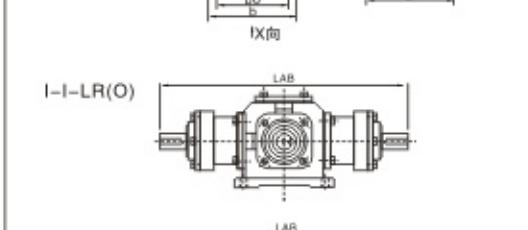
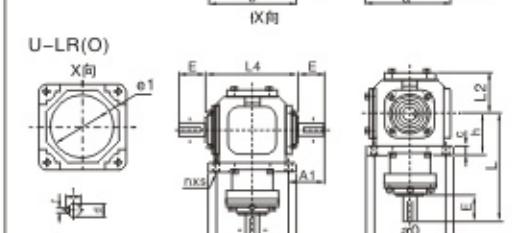
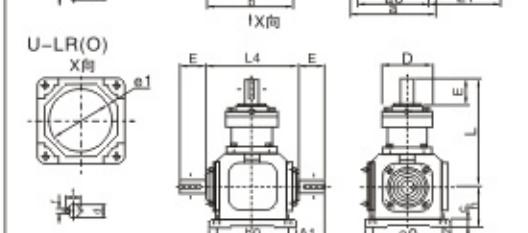
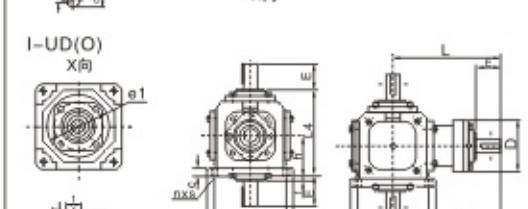
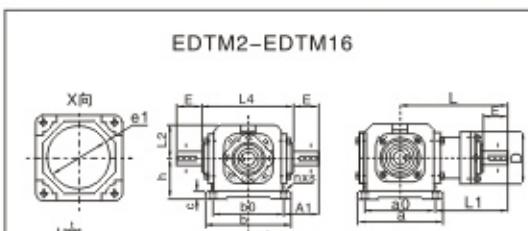
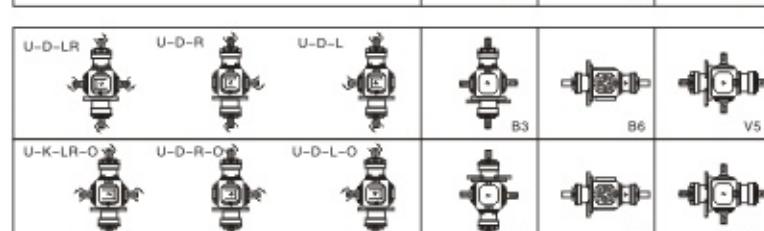
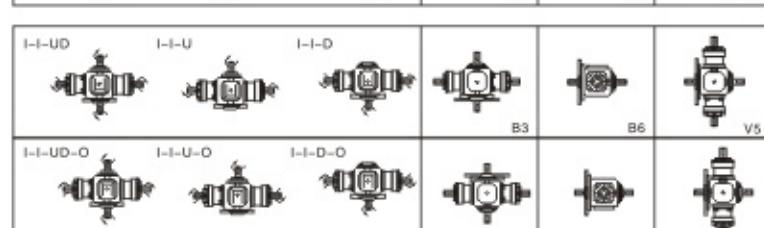
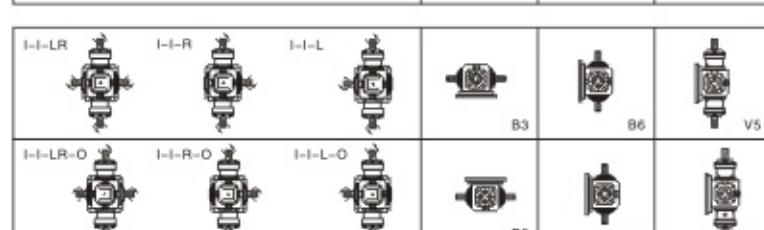
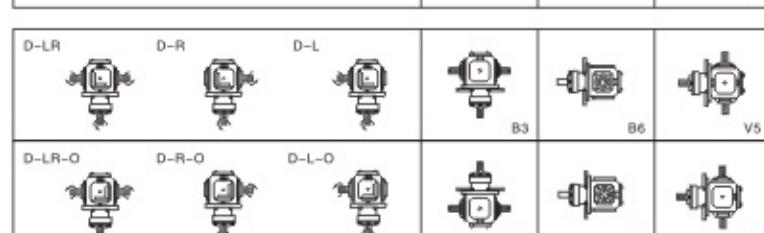
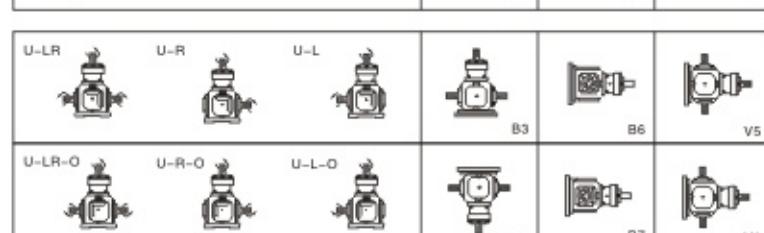
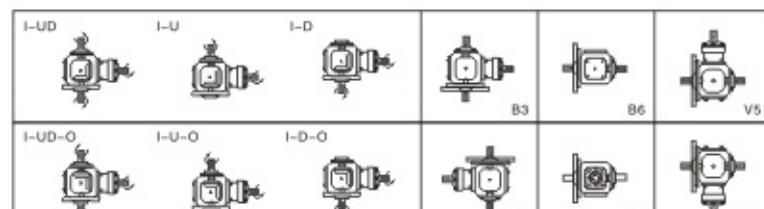
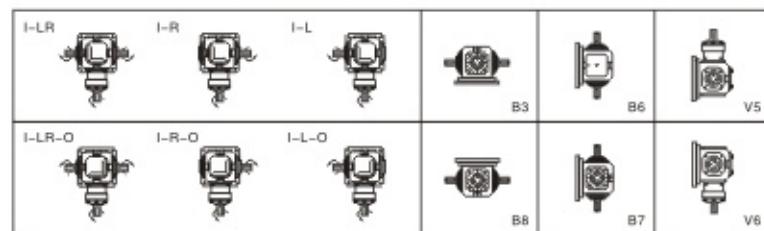
2、以上有灰色标识的规格定货时须咨询,横轴输入转速超过1450r/min时,向本公司咨询。

| i_N | n1 (r/min) | EDTM10 | | EDTM12 | | EDTM16 |
|-------|---------------|--------|--|--------|--|--------|
|-------|---------------|--------|--|--------|--|--------|

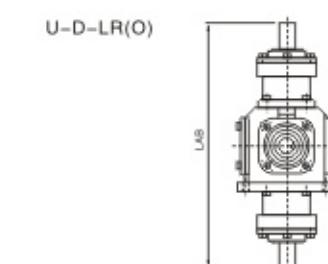
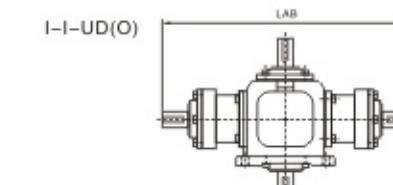
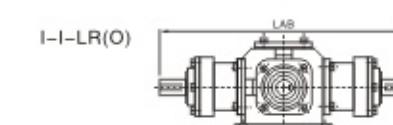
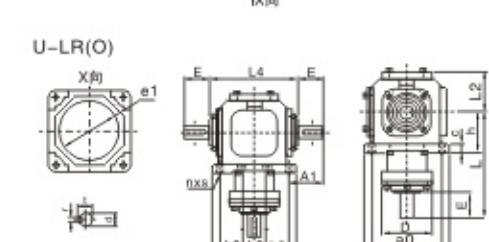
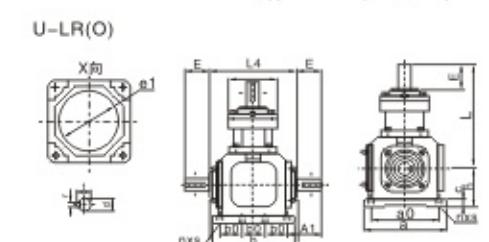
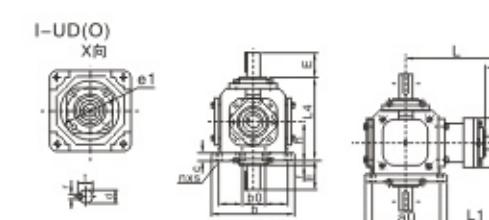
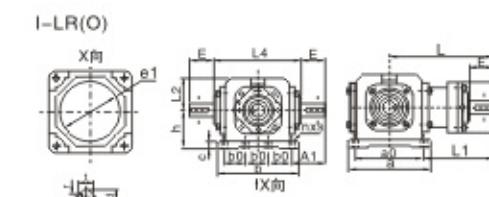


轴配置及轴旋转方向的关系、安装方位及尺寸图表

The relationship between shaft arrangements and direction of shaft rotation, Mounting position and dimension sheets



EDTM20-EDTM25



| | EDTM2 | EDTM4 | EDTM6 | EDTM7 | EDTM8 | EDTM10 | EDTM12 | EDTM16 | EDTM20 | EDTM25 |
|----------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| A1 | 48 | 53.5 | 81 | 88 | 110.5 | 120 | 130 | 150 | 195 | 235 |
| a | 100 | 155 | 190 | 210 | 235 | 285 | 340 | 390 | 490 | 580 |
| a0 | 84 | 125 | 152 | 174 | 195 | 240 | 290 | 330 | 430 | 520 |
| b | 100 | 155 | 190 | 210 | 235 | 285 | 340 | 390 | 410 | 480 |
| b0 | 84 | 125 | 152 | 174 | 195 | 240 | 390 | 330 | 110 | 130 |
| C | 10 | 20 | 22 | 22 | 26 | 28 | 32 | 40 | 40 | 40 |
| D | 58 | 76 | 115 | 125 | 159 | 155 | 168 | 193 | 220 | 270 |
| d(h7) | 15 | 19 | 25 | 32 | 40 | 45 | 50 | 60 | 72 | 85 |
| E | 33 | 38 | 50 | 62 | 75 | 90 | 100 | 105 | 105 | 130 |
| e1(H8)X3 | 94x3 | 155x5 | 190x4 | 220x4 | 240x5 | 305x5 | 370x5 | 420x7 | 360x10 | 430x10 |
| f | 5 | 2 | 17 | 13 | 18 | 10 | 0 | 10 | 10 | 10 |
| h | 52 | 76 | 90 | 100 | 115 | 140 | 175 | 200 | 245 | 290 |
| L | 124 | 180 | 222 | 265 | 308 | 360 | 415 | 455 | 545 | 660 |
| L1 | 82 | 117.5 | 146 | 178 | 210.5 | 240 | 270 | 290 | 330 | 400 |
| L2 | 52 | 76 | 87 | 99 | 119.5 | 133 | 160 | 186 | 217 | 255 |
| L4 | 114 | 156 | 214 | 226 | 266 | 300 | 350 | 420 | 510 | 600 |
| LAB | / | 360 | 444 | 530 | 616 | 720 | 830 | / | / | / |
| n | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 8 |
| r | 5 | 6 | 8 | 10 | 12 | 14 | 14 | 18 | 20 | 22 |
| s | 9 | 10.5 | 14 | 14 | 14 | 16 | 21 | 25 | 21 | 24 |
| t | 17 | 21.5 | 28 | 35 | 43 | 48.5 | 53.5 | 64 | 76.5 | 90 |