



RECKON DRIVES S.A.S  
3, rue J.C MILLERET  
Immeuble Horizon  
42000 Saint-Etienne  
www.reckondrives.com  
2022 · NO.3



Quality assurance  
Power peak

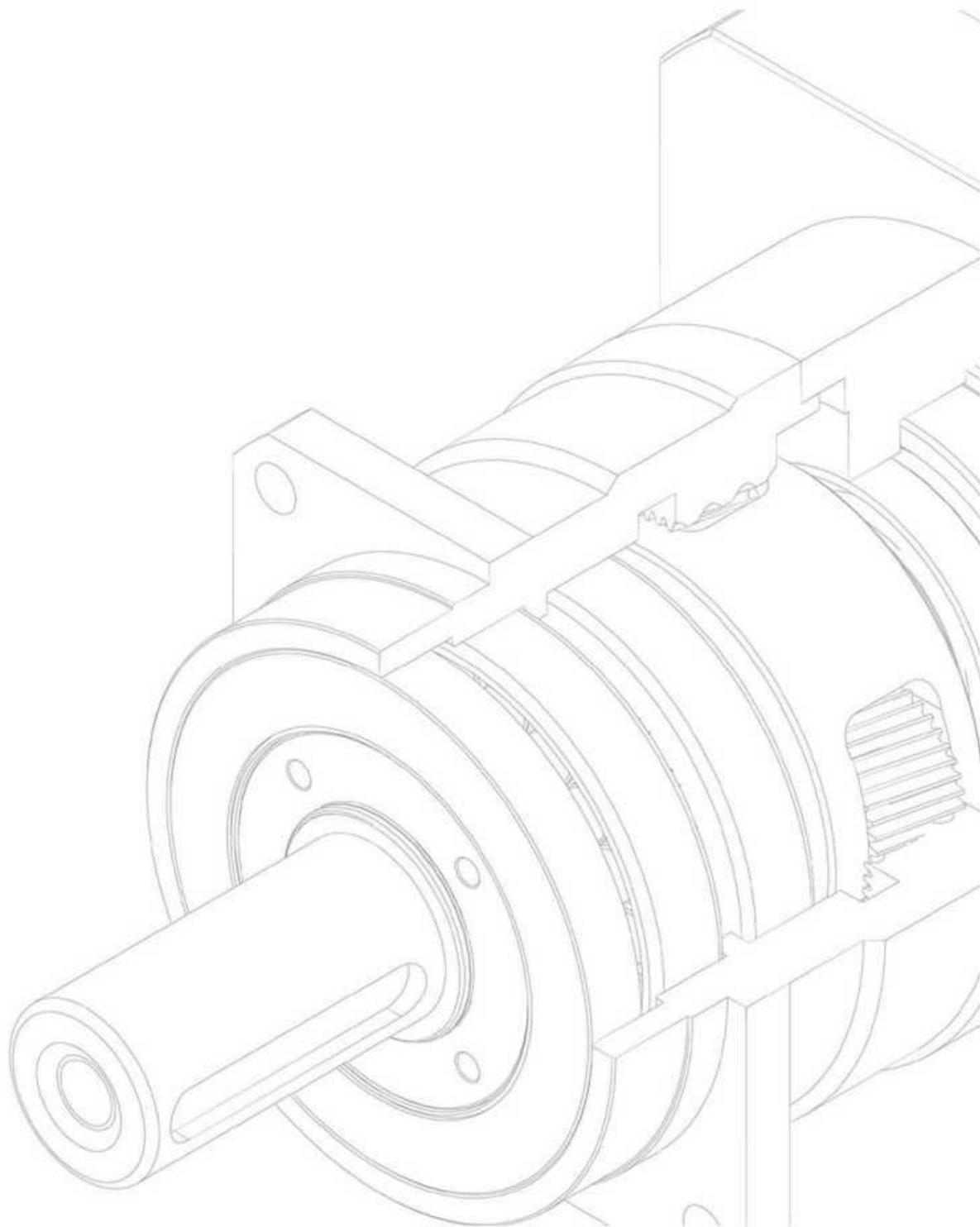


[www.moto-reducer.com](http://www.moto-reducer.com)

# MOTOREDUCTER

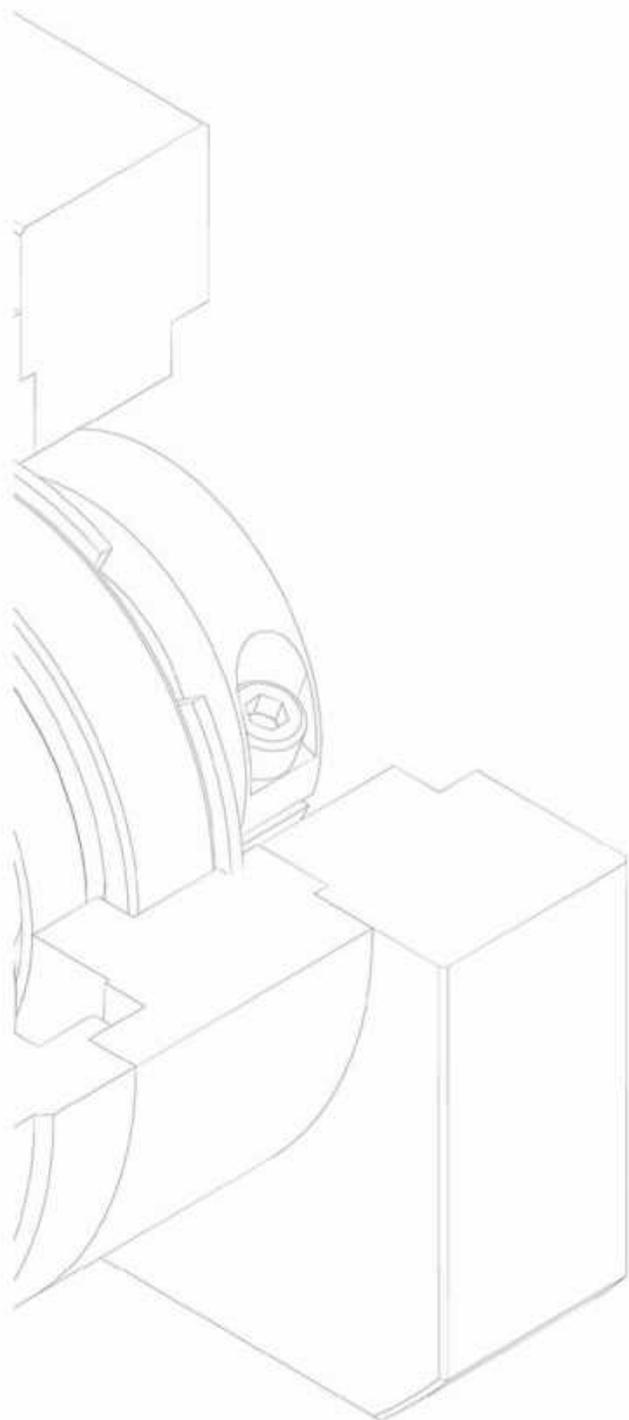
Low Backlash  
Planetary Gearboxes

**Assuring quality is our professional commitment,  
Performance and improvement are our principles,  
Customers' full satisfaction is our pride.**



The provided data are only on an indicative basis and are subject to modification.  
本样册所提供的相关信息仅供参考，可根据客户需求做出相应改动。

# MOTOREDUCER Planetary Gearboxes



|         |      |   |
|---------|------|---|
| 17-32   | MVB  |    |
| 33-48   | MVE  |    |
| 49-64   | MVD  |    |
| 65-80   | MAF  |    |
| 81-94   | MAFQ |    |
| 95-104  | MPVB |   |
| 105-114 | MPVE |  |
| 115-124 | MAB  |  |
| 125-132 | MAE  |  |
| 133-140 | MVS  |  |
| 141-154 | MVBR |  |
| 155-168 | MVER |  |
| 169-180 | MVDR |  |
| 181-194 | MAFR |  |



## About us

RECKON DRIVES is located in Saint-Etienne (France), one of the Traditional Military Industry Production Center in Europe. Specialized in power transmission equipment with higher requirements and higher standards, RECKON was born of the cooperation between MOTOREDUCER and a French well-known military aerospace equipment manufacturing Company after years of technical exchange, so as to offer top quality products to the global market.

MOTOREDUCER planetary gearboxes entered Chinese market in 2010 and since then have successfully supplied thousands of equipment manufacturers for various industrial applications. Today, in order to follow the booming industrial trend, we adhere more than ever to our philosophy "using world's leading technology, creating value for the world". From 2018 on, RECKON-MOTOREDUCER full range of products is available with even higher performances and offers a larger choice of low backlash planetary gearboxes.

RECKON DRIVES公司位于欧洲传统军工生产基地-法国Saint-Etienne（圣埃蒂安城市），是由MOTOREDUCER和法国知名军工航天设备制造企业经过多年技术交流以及对全球市场分析、战略规划而合作打造的更高要求、更高标准、更加全面的传动设备制造企业。

MOTOREDUCER行星减速机从2010年开始在中国市场推广至今，成功为各领域上千家工业设备制造企业服务。如今，为了满足工业制造整体水平的提高，更好的秉承“用世界领先科技，为世界创造价值”的理念，2018年将会推出更高性能、更加全面的RECKON-MOTOREDUCER精密行星减速机系列产品。



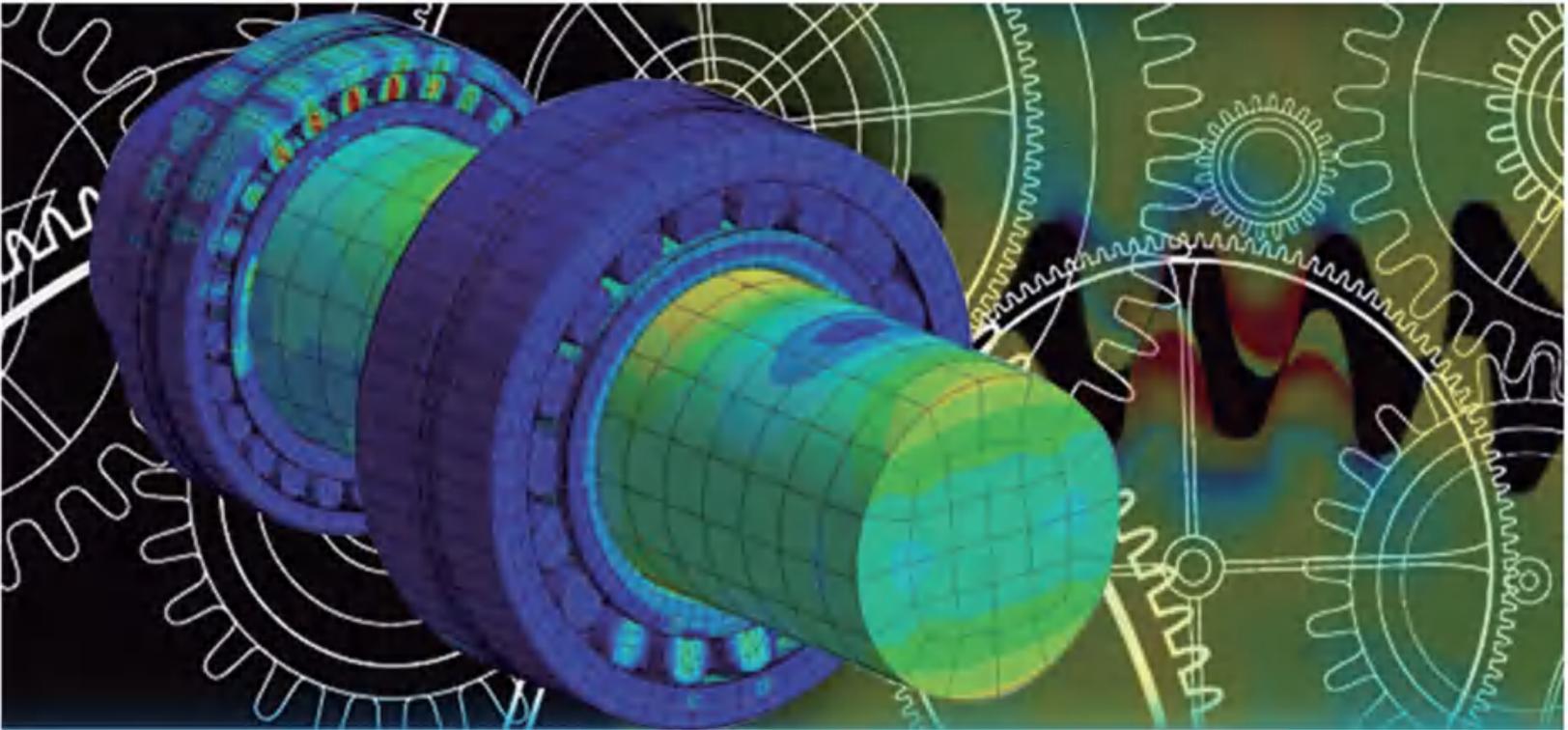
## About us



Performance, innovation and creation are the foundation of RECKON spirit; we are always referring to these principles so as to bring you entire satisfaction. Quality has always been our daily concern since we are aiming to reach perfection. Our quality and environmental policy remains our top priority and are at the center of our management system which integrates a tracking record for each phase of production and service. Using state-of-the-art high performance equipment for production and quality control of each component, we keep on developing extremely precise gear so as to bring you top notch low backlash planetary gearboxes according to your expectations. In the future we will keep on focusing on innovation to provide you with creative solutions.

RECKON一直以传承，创新，创造作为企业发展理念，我们始终坚信品质为企业生存的根本，且一直保持着对更高品质的追求，为客户的客户提供放心高质的产品。一个产品的生命，其价值的体现便是满意每一位使用他的客户。在此，我们真诚的感谢您在我司的成长过程中给予我们的信任以及陪伴，为了您的选择，我们会尽最大的努力给您提供满意的产品。在未来的日子里RECKON将继续开拓创新，为您提供终极解决方案。我们将一直秉承这些理念陪伴您走下去。

## Research & Development



Our research unit is constantly trying to bring new solutions and focus on an optimized use of machine-tools. Our production unit and its 90 machines are working under the total control of our quality department, for each manufactured mechanical piece so as to guarantee that there is no defect. This is why we are internally controlling the totality of the processing from machining to handling. Quality is the hardcore of our company spirit, and this enables us to look far in the future. Our internal quality standards often exceed those usually found in the industry. Because of this strict and challenging control process, we are able to offer you especially long working life planetary gearboxes. Our ISO 9001 certification allows us to get technical feedback from our clients and to continue improving on every aspect.



我们的研发部，负责给客户提供最新最快的方案。我们拥有90台大型减速机专业生产设备，并且拥有独立的质量检测部。我们的宗旨是每一个产品零瑕疵，这促使我们在生产和组装上更加严格的质量把控。追求质量是企业的精神核心，我们的质量检测标准已远超过同行业水平。由于产品经过质量严格把控，确保能够为客户提供使用寿命更长的行星减速机。通过ISO9001质量认证，获得了更多客户的认可和反馈，促使我们不断改进，不断超越。

## Customer Service



It is an honor for us to share our professional expertise gain through intense cooperation between our partners worldwide. We develop tailor-made concept products upon your special request at a very comprehensive price because we care about your final customers. Following this philosophy we analyze all most important parameters such as working conditions, duration of operation, speeds, or loads in order to bring you the corresponding solution. Our service culture leads us to be where you need us in the shortest delays, whether for supply of parts or technical support for your convenience.

与全球合作伙伴分享我们的专业知识对于我们来说是一种荣誉，根据客户对产品的特殊要求，我们研发部为您提供特定产品，性价比合理。遵循这个理念，我们分析重要参数例如工作条件，运行持续时间，速度，或负荷，总结出相对应的解决方案。我们的服务宗旨是，当你需要我们时我们会在最短的时间内为你提供部件或技术支持。

## Quality & Production



- From raw material to bearings, gaskets or lubricants, each component comes from the best suppliers of their industry because we chose them through meticulous selection process and we keep on proceeding stringent quality control to secure your relation with your final client.
- Our helical gears (satellite, ring) are case hardened to 58-62 HRC and machined to class DIN6. This confers them high precision, great stability, high output torque, low noise level and low backlash.
- Our components are processed and corrected internally following our unique technical method.
- Precision is constant all along the rates working lifetime.
- 我们所用的原材料及轴承等配件均由优秀供应商所提供，经我公司严格的技术评估，质量筛选和流程把关。
- 我们提供的所有行星齿轮、太阳齿轮均为螺旋齿轮，经过渗碳淬火至58-62HRC，进行精密磨削而成，具有运转精度高、稳定性好、高输出扭矩、低背隙和低噪音的特性。
- 我们提供的所有齿轮都是经过我司独有的技术修正的。这样的修正可以降低摩擦，提高寿命并且降低噪音。
- 我们的产品精度在整个工作寿命期间都能保持稳定。

## Quality & Production



# Quality & Production

1 吹膜机  
Film blowing machine



2 机械手  
Industrial robots



3 印刷设备  
Printing machines



7 医疗设备  
Medical Equipment



8 检测设备  
Measuring equipment



9 汽车制造  
Automotive industry

We can offer you the all the modifications requested in your field of application. Our sales and service network provides quick availability and competent support. For special requirements we bring you individual solutions. Of course, our services are always cost optimized. Thanks to our professional expertise, our specialists provide technical and market consultation for a wide variety of industrial sectors.

纺织机械  
Textile machines 4



包装机械  
Packing machines 5



非标自动化  
Non-standard automation 6



卫星通讯  
Satellite communication 10



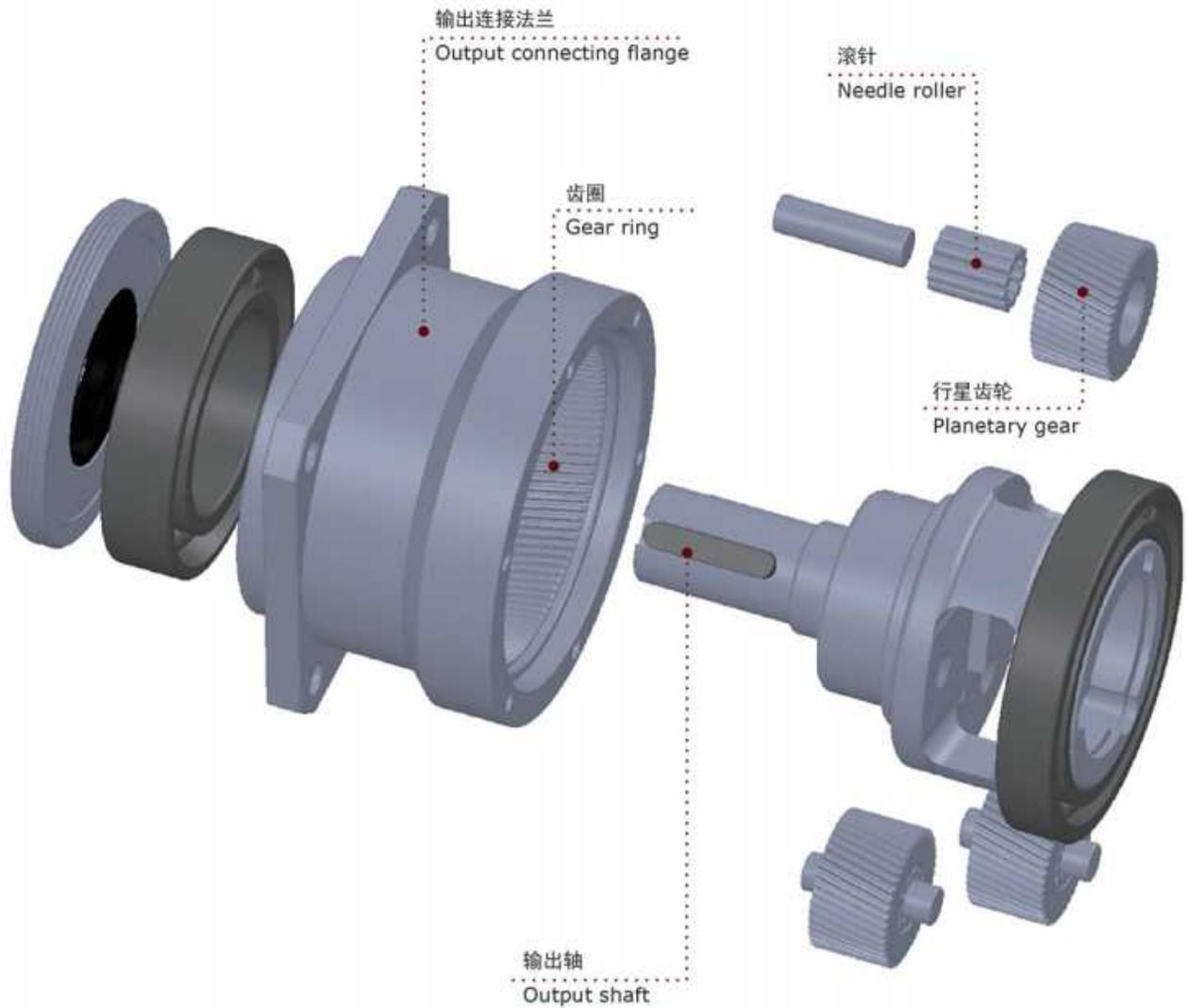
金属加工  
Metal processing 11



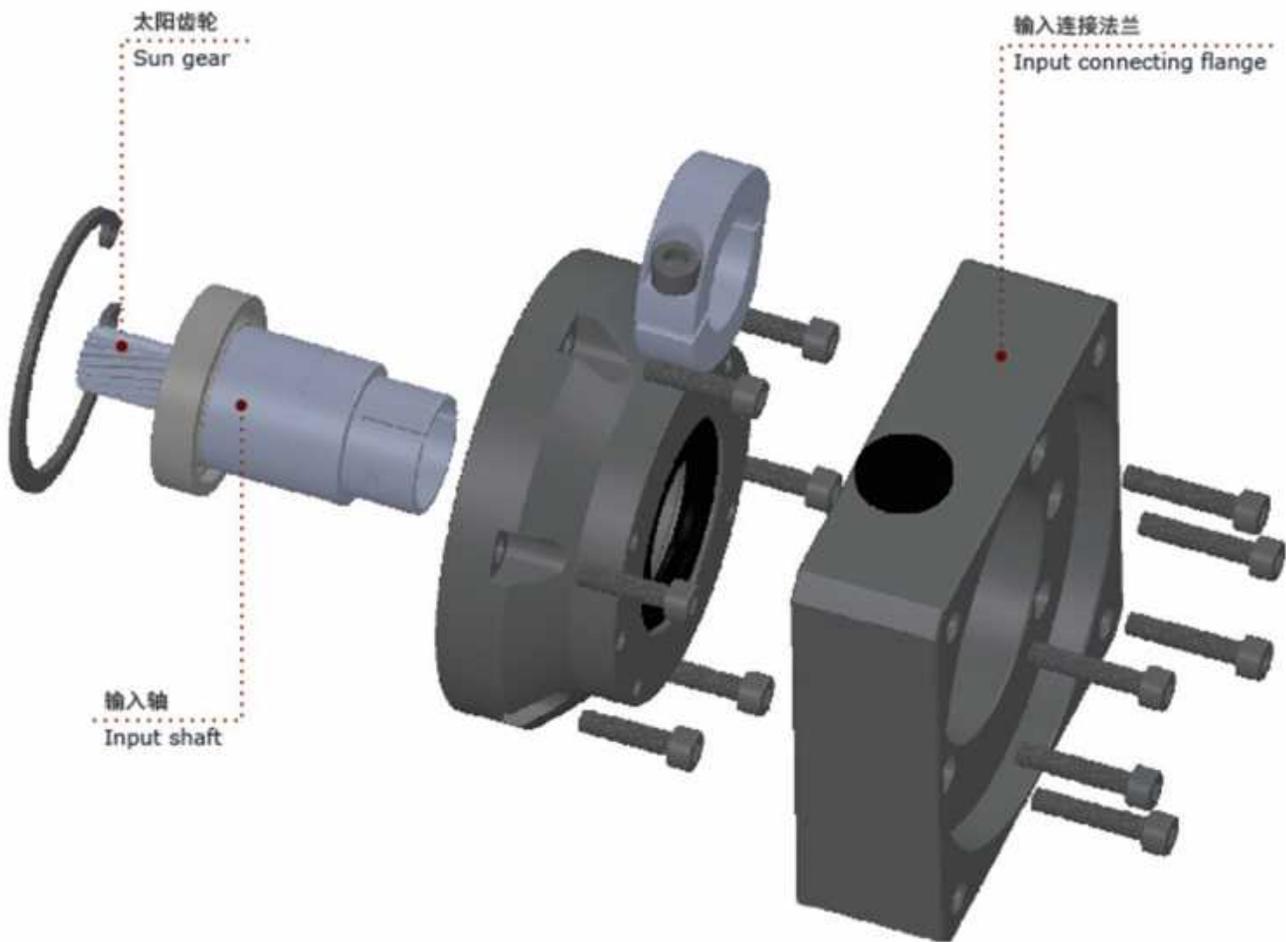
制药行业  
Pharmaceutical industry 12

在您的应用领域，我们能够满足您的每一次需求。对于一些特殊要求，我们将会考虑给您提供相应的解决方案。我们的市场化网络能够确保快速有效的获取我们想要的信息。目前我们的产品已经应用于工业领域的各个行业，适用于机床，机械手，印刷设备，纺织机械，包装机械，非标自动化，医疗设备，检测设备，汽车制造，卫星通讯，金属加工，制药行业等工业领域。

## 3D Section Plan



Spare parts are strictly submitted to the quality control process required by RECKON. All our satellite and sun gears are helical-shaped and are case hardened to 58-62 HRC, granting superior transmission results. Satellite gears are double-supported with full-complement needle bearings that increase torsional stiffness. According to the International Protection Rating system, MOTOREDUCER gearboxes designation is IP65. This means protection against dust infiltration (dust-tight) and water jets which are emitted from a nozzle and sprayed against the housing from all directions (jet water).



所有的零部件均按照RECKON严格的质量控制体系把关，行星齿轮和太阳齿轮均为斜齿轮，渗碳淬火至58-62HRC，进行精密磨削，经过技术修正，以达到完美的传动效果。行星齿轮由满滚针轴承两端支撑，增强了扭转刚度。MOTOREDUCER行星减速机防护等级达到国际标准IP65（完全防尘、防水）。

# Product line

Performance rating scale / 性能对照表

| Model<br>系列  | Positioning accuracy<br>定位精度 | Radial force<br>径向力 | Torsional stiffness<br>扭转刚性 | Backlash<br>背隙 | Wide range of size<br>规格多样性 | Power density<br>功率密度 | Wide range of ratio<br>传动多样性 |
|--|------------------------------|---------------------|-----------------------------|----------------|-----------------------------|-----------------------|------------------------------|
|  MVB    | MMM                          | MM                  | MMM                         | MMM            | MMM                         | MMM                   | MMM                          |
|  MVE    | MMM                          | MM                  | MMM                         | MMM            | MMM                         | MMM                   | MMM                          |
|  MVD    | MMM                          | MMM                 | MMM                         | MMM            | MM                          | MMM                   | MMM                          |
|  MAF    | MMM                          | MMM                 | MMM                         | MMM            | MM                          | MMM                   | MM                           |
|  MAFQ   | MMM                          | MMM                 | MMM                         | MMM            | MM                          | MMM                   | MM                           |
|  MPVB   | MMM                          | MM                  | MM                          | MMM            | MM                          | MMM                   | MMM                          |
|  MPVE  | MMM                          | MM                  | MM                          | MM             | MM                          | MMM                   | MMM                          |
|  MAB  | MMM                          | MM                  | MM                          | MM             | MM                          | MM                    | MM                           |
|  MAE  | MMM                          | MM                  | MM                          | MM             | MM                          | MM                    | MM                           |
|  MVS  | MMM                          | MM                  | M                           | M              | M                           | M                     | MM                           |
|  MVBR | MMM                          | MM                  | MMM                         | MM             | M                           | MMM                   | MMM                          |
|  MVER | MMM                          | MM                  | MMM                         | MM             | M                           | MMM                   | MMM                          |
|  MVDR | MMM                          | MMM                 | MMM                         | MM             | M                           | MMM                   | MMM                          |
|  MAFR | MMM                          | MMM                 | MMM                         | MM             | M                           | MMM                   | MMM                          |

 Standard标准    
  Good强    
  Maximum最强

# Model selection

Indication for model selection / 机型型号表示

MVB — 090 — 10 — P1 — K( ) — 1FK7040-5AK71-1

| Model / 系列 | Size / 规格                       | Ratio / 减速比 * | Precision / 精度   | Output Shaft<br>输出轴            | Motor reference<br>马达型号   |
|------------|---------------------------------|---------------|--|--------------------------------|---|
| MVB        | 040/060/090/120/140/180/220     | 3~100         | P0≤1 arcmin<br>P1≤3 arcmin<br>P2≤5 arcmin<br>P3≤standard | K:带键轴<br>S:光轴<br>C:非标轴<br>T:超载 | <b>REXROTH</b><br><b>SIEMENS</b><br><b>SCHNEIDER</b><br><b>PARKER</b><br><b>MITSUBISHI</b><br><b>PANASONIC</b><br><b>YASKAWA</b><br>..... |
| MVE        | 040/060/090/120/155/205/235/330 | 3~100         |  |                                |   |
| MVD        | 060/075/100/140/180/210/240     | 3~100         |  |                                |   |
| MAF        | 047/064/090/110/140/200/255/285 | 4~100         |  |                                |   |
| MAFQ       | 047/064/090/110/140/200/255/285 | 4~100         |  |                                |   |
| MPVB       | 060A/060B/090A/090B/115A/115B   | 3~100         |  |                                |   |
| MPVE       | 060A/060B/090A/090B/115A/115B   | 3~100         |  |                                |   |
| MAB        | 060/090/115/140                 | 3~100         |  |                                |   |
| MAE        | 060/090/115/155                 | 3~100         |  |                                |   |
| MVS        | 060/080/100/125                 | 3~100         |  |                                |   |
| MVBR       | 040/060/090/120/140/180/220     | 3~100         |  |                                |   |
| MVER       | 040/060/090/120/155/205/235     | 3~100         |  |                                |   |
| MVDR       | 040/060/090/120/140/180/220     | 3~100         |  |                                |   |
| MAFR       | 047/064/090/110/140/200/255     | 4~100         |  |                                |   |

\* MAB/MAE系列  
 减速比 6, 18, 24, 36, 42, 48, 54, 60  
 8, 32, 48, 56, 64, 72, 80  
 9, 27, 45, 63, 81, 90 公司暂不生产。

\* 1 Stage ( 3~10 ), 2 Stages ( 12~100 ) 3~10为1级, 12~100为2级  
 The following two stage transmission ratios are also available /两级传动亦可做出以下传动比:  
 3×4=12, 3×7=21, 3×9=27, 4×4=16, 4×6=24, 4×7=28 .....

## Formula symbols and indices

| Designation               | 项目     | Symbol /代码  | Unit/单位           |
|---------------------------|--------|-------------|-------------------|
| Reduction ratio           | 减速比    | $i$         |                   |
| Nominal output torque     | 额定输出力矩 | $T_{2N}$    | Nm                |
| Peak acceleration torque  | 最大加速力矩 | $T_{2B}$    | Nm                |
| Emergency braking torque  | 紧急制动力矩 | $T_{2Not}$  | Nm                |
| Nominal input shaft speed | 额定输入转速 | $n_{1N}$    | rpm               |
| Max. input shaft speed    | 最大输入转速 | $n_{1Max}$  | rpm               |
| Backlash                  | 回程间隙   | $j_t$       | arcmin            |
| Torsional stiffness       | 扭转刚性   | $C_{2t}$    | Nm/arcmin         |
| Max. radial load          | 最大径向力  | $F_{2RMax}$ | N                 |
| Max. axial load           | 最大轴向力  | $F_{2AMax}$ | N                 |
| Rotational Inertia        | 转动惯量   | $J_1$       | kgcm <sup>2</sup> |
| Working efficiency        | 工作效率   | $\eta$      | %                 |
| Working lifetime          | 工作寿命   | $L_h$       | h                 |
| Operating temperature     | 环境温度   | $T$         | °C                |
| Lubrication Method        | 润滑方式   | Lub         |                   |
| Protection class          | 防护等级   | PC          |                   |
| Mounting position         | 安装方向   | MP          |                   |
| Noise                     | 噪音     | dB          |                   |

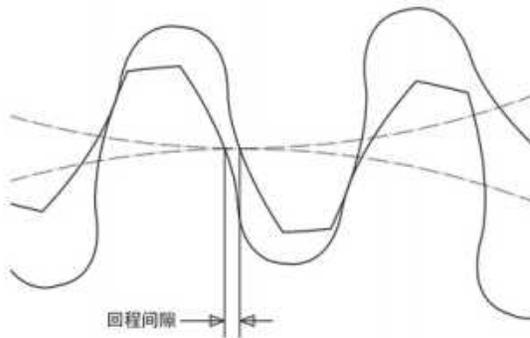
The following table indicates all the symbols and the units that are used in this catalogue. For the 14 gearbox series, all the technical data refer to the present table.

以上表格是所有产品性能表各参数的项目、符号、单位的文字备注，接下来14个系列产品的性能表，请对照此表格进行阅读

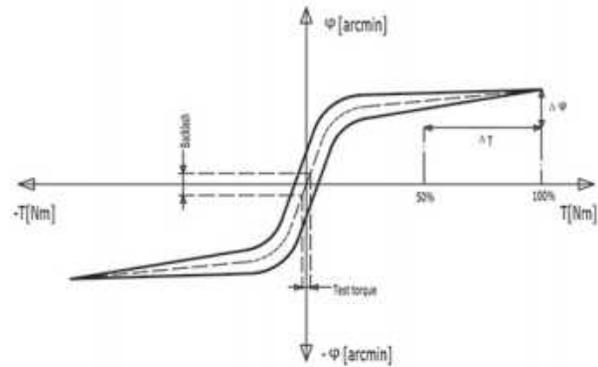
## Basic definitions

| keyword<br>关键词 | Explanation/解释说明   |
|----------------|--|
| 弧分             | 1度等于60弧分 ( $1^\circ = 60 \text{ arcmin}$ )。当回程间隙为1 arcmin时，齿轮箱旋转一圈传递到输出端的角偏差为1/60度。  |
| 回程间隙           | 是指减速机输出轴与输入轴回转时产生的最大偏差角，测量时先将减速机的输入轴固定，然后在输出端用力矩仪加载到一定的力矩，以克服齿轮箱内的摩擦力。   |
| 迟滞曲线           | 检测迟滞是为了得出减速机的扭转刚度，通过检测可以得出迟滞曲线。检测时，先将减速机的输入端固定，然后在输出端的两个旋向分别持续的加载到T2B（最大加速力矩）后逐步卸载，可绘制出对应扭矩的扭转角，能得到一条闭合的曲线，从迟滞曲线里可以计算出减速机的回程间隙和扭转刚度。 |
| 扭转刚度           | 由加载力矩和所产生的扭转角之间的比率来定义， $C2t = \Delta T / \Delta \varphi$ 。<br>在迟滞曲线上能计算出需要用多大的扭矩才能把输出轴转动一弧分。   |
| 转动惯量           | 表示物体绕轴转动时保持其匀速圆周运动或静止的特性参数。  |

回程间隙示意图



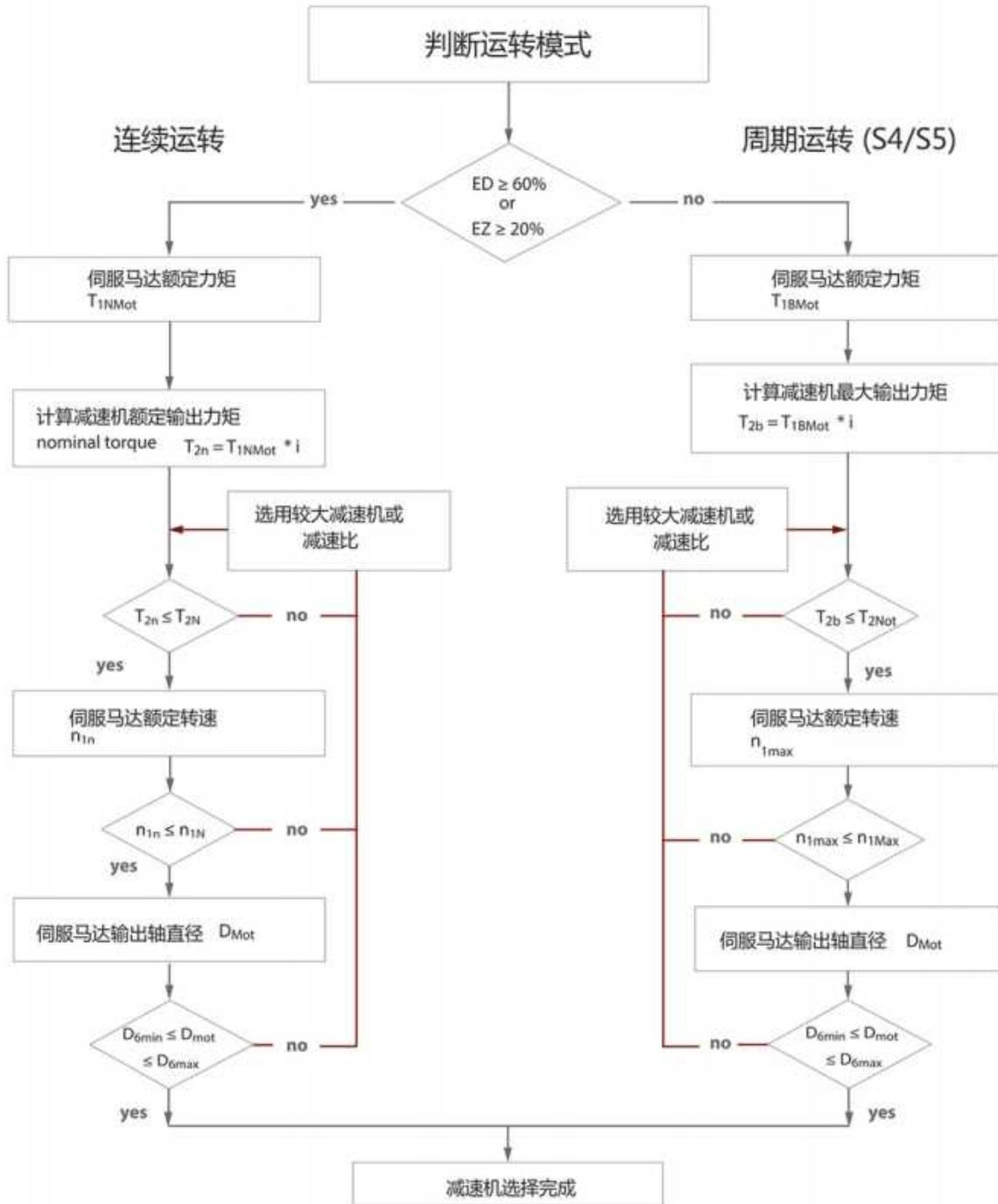
迟滞曲线示意图



# Ordering process



- |                    |                |                   |  |
|--------------------|----------------|-------------------|--|
| i                  | from catalogue | n <sub>1n</sub>   | nominal motor speed                        |
| T <sub>2N</sub>    | from catalogue | n <sub>1N</sub>   | gearbox nominal input speed from catalogue |
| T <sub>2Not</sub>  | from catalogue | n <sub>1max</sub> | maximum motor speed                        |
| T <sub>18Mot</sub> | motor data     | n <sub>1Max</sub> | gearbox maximum input speed from catalogue |
| T <sub>1NMot</sub> | motor data     |                   |  |



i 见样本参数  
 T<sub>2N</sub> 见样本参数  
 T<sub>2Not</sub> 见样本参数  
 T<sub>1BMot</sub> 见伺服马达参数  
 T<sub>1NMot</sub> 见伺服马达参数

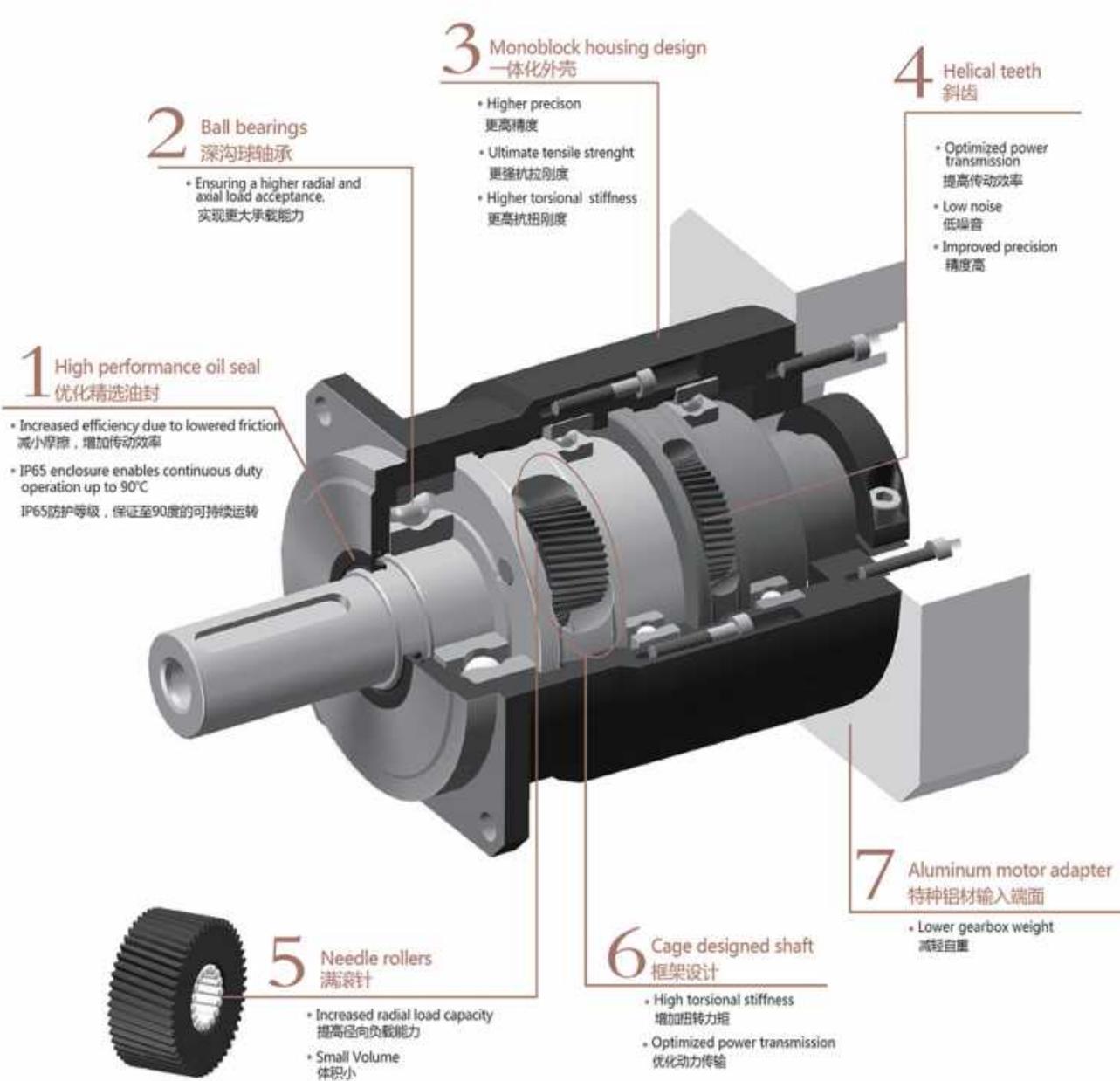
n<sub>1n</sub> 伺服马达额定转速  
 n<sub>1N</sub> 减速机额定输入转速 见样本参数  
 n<sub>1max</sub> 伺服马达最大转速  
 n<sub>1Max</sub> 减速机最大输入转速  
 见样本参数

**MVB SERIES**



专门为频繁反复和紧急加速而设计，MVB系列可提供高精度、高刚性和高扭矩。

Powerful, robust and precise, this planetary gearbox is designed to work under heavy operating duty.



造型数据:  
Selection data:

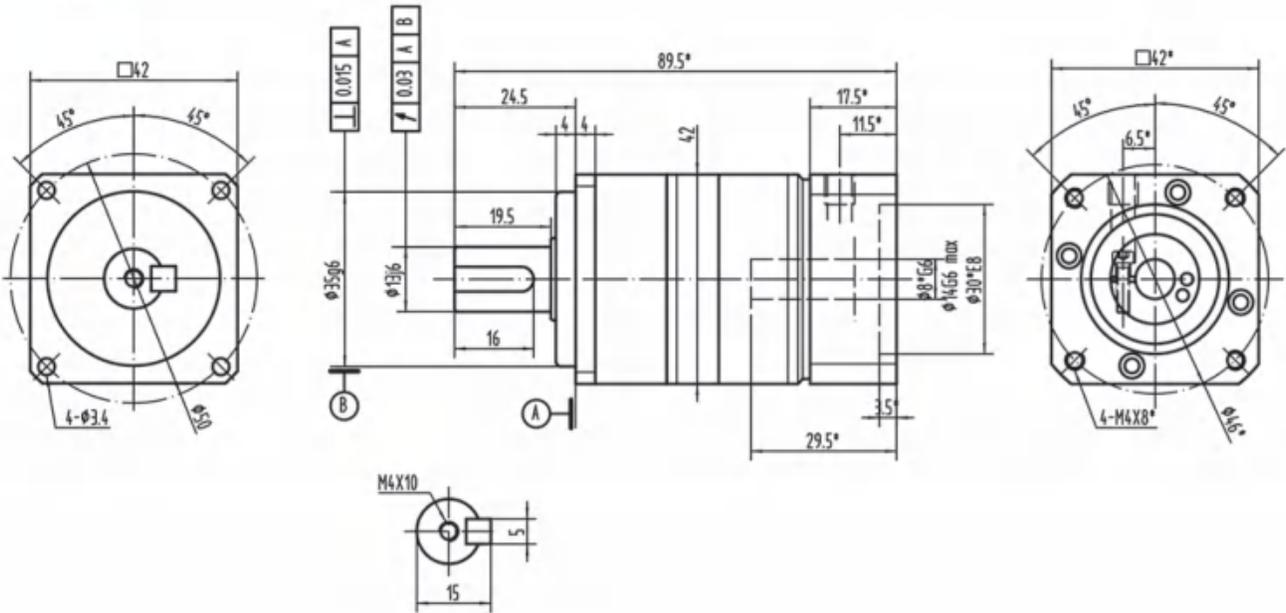
|               |         |
|---------------|---------|
| 扭矩 ( Nm )     | 14-1900 |
| 速比            | 3-100   |
| 背隙 ( arcmin ) | 3-5     |
| 最大工作温度 ( °C ) | 90      |
| 噪音 ( dB )     | 63-77   |

|                                |         |
|--------------------------------|---------|
| Nominal output torque ( Nm )   | 14-1900 |
| Reduction ratio                | 3-100   |
| Backlash ( arcmin )            | 3-5     |
| Max.working temperature ( °C ) | 90      |
| Noise ( dB )                   | 63-77   |

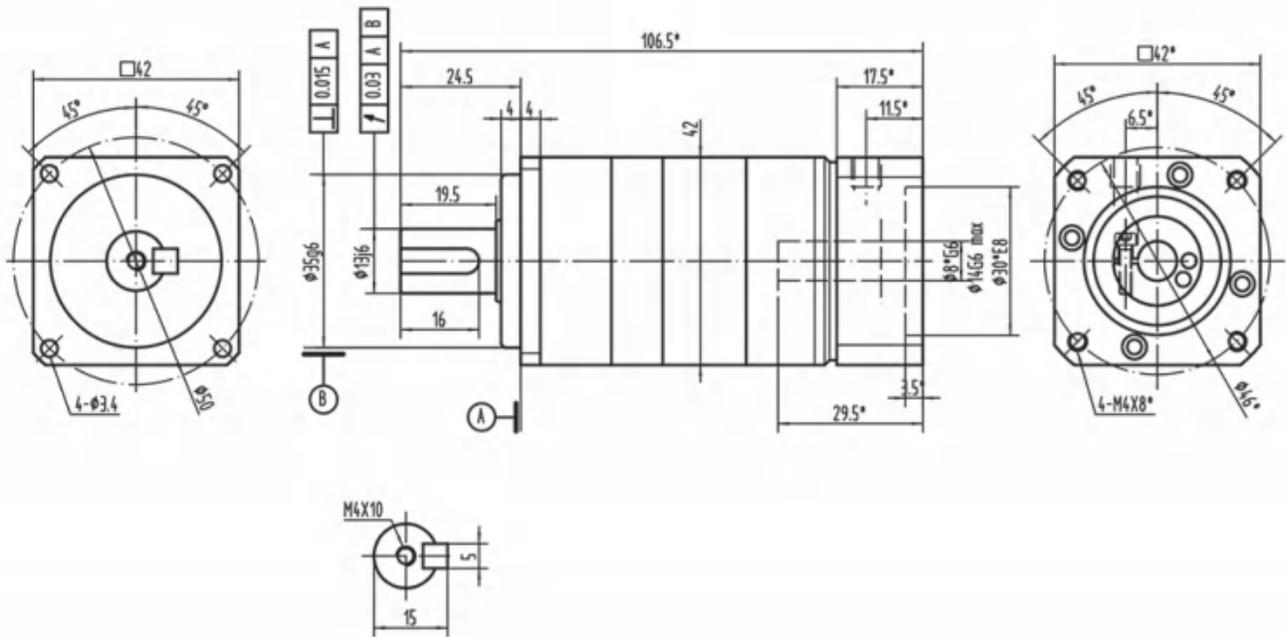
# Drawing / Size

MVB

## MVB-040-L1



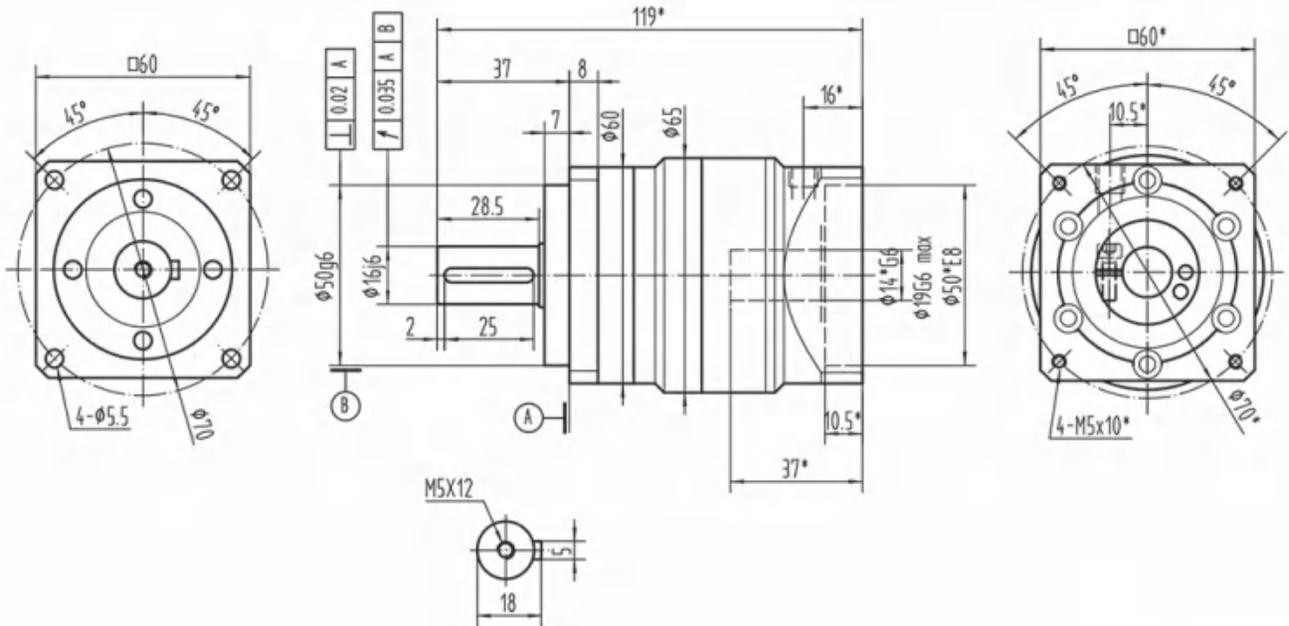
## MVB-040-L2



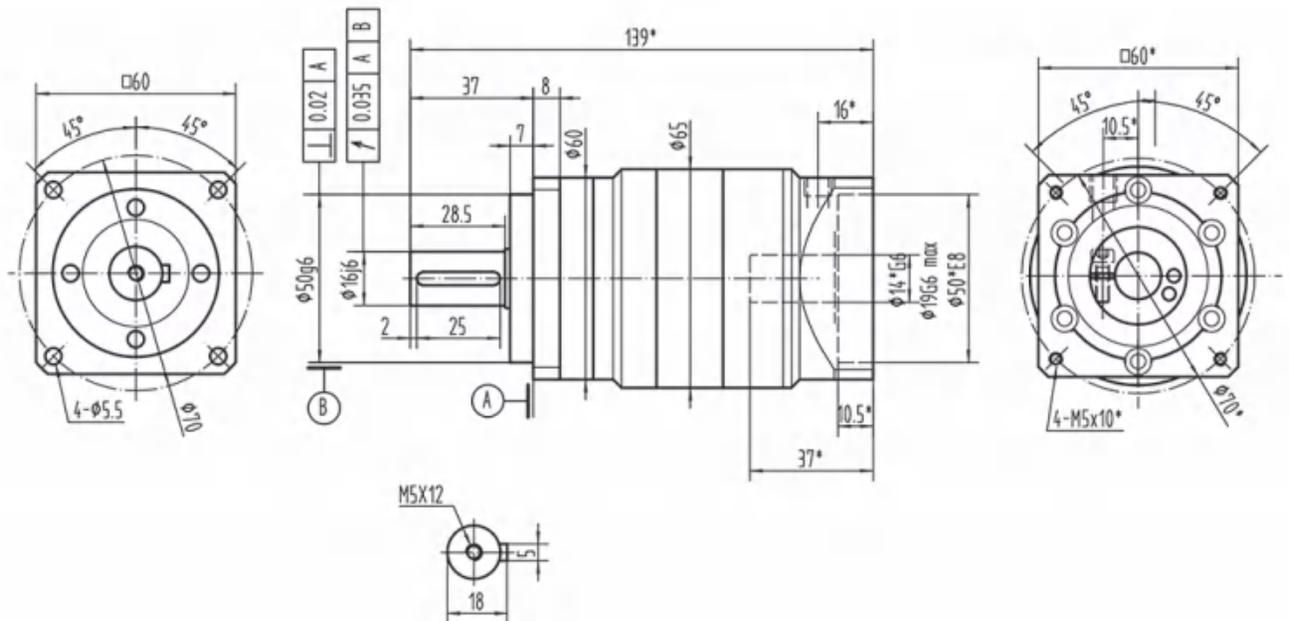
\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Drawing / Size

MVB-060-L1



MVB-060-L2

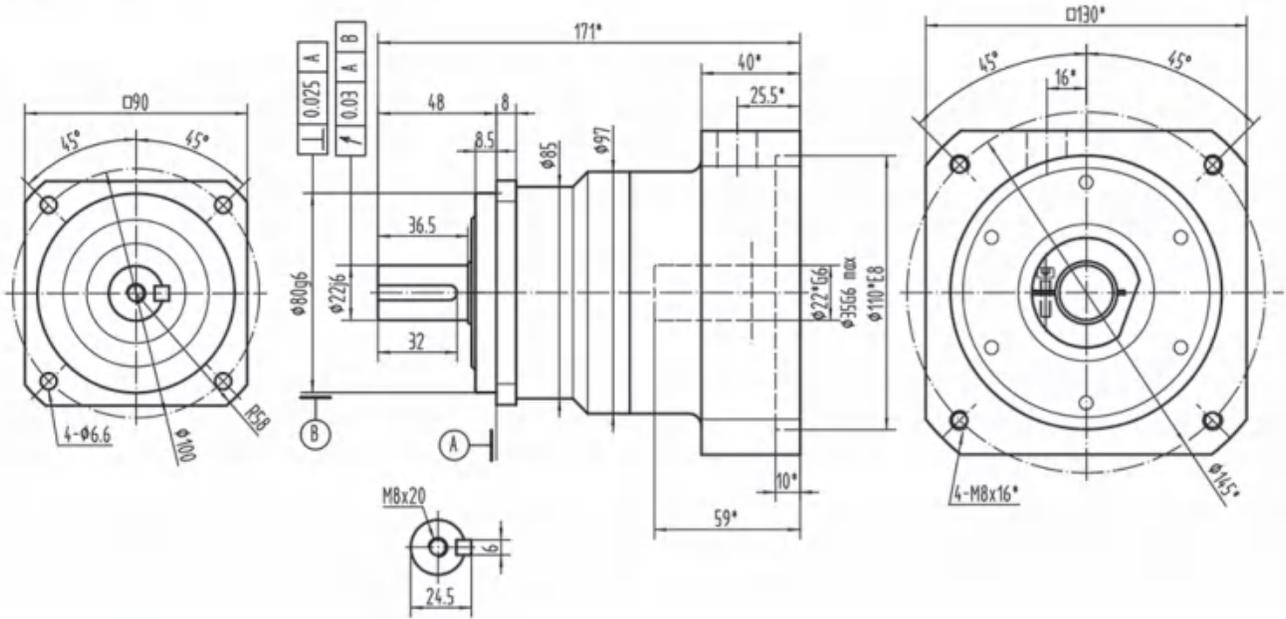


\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

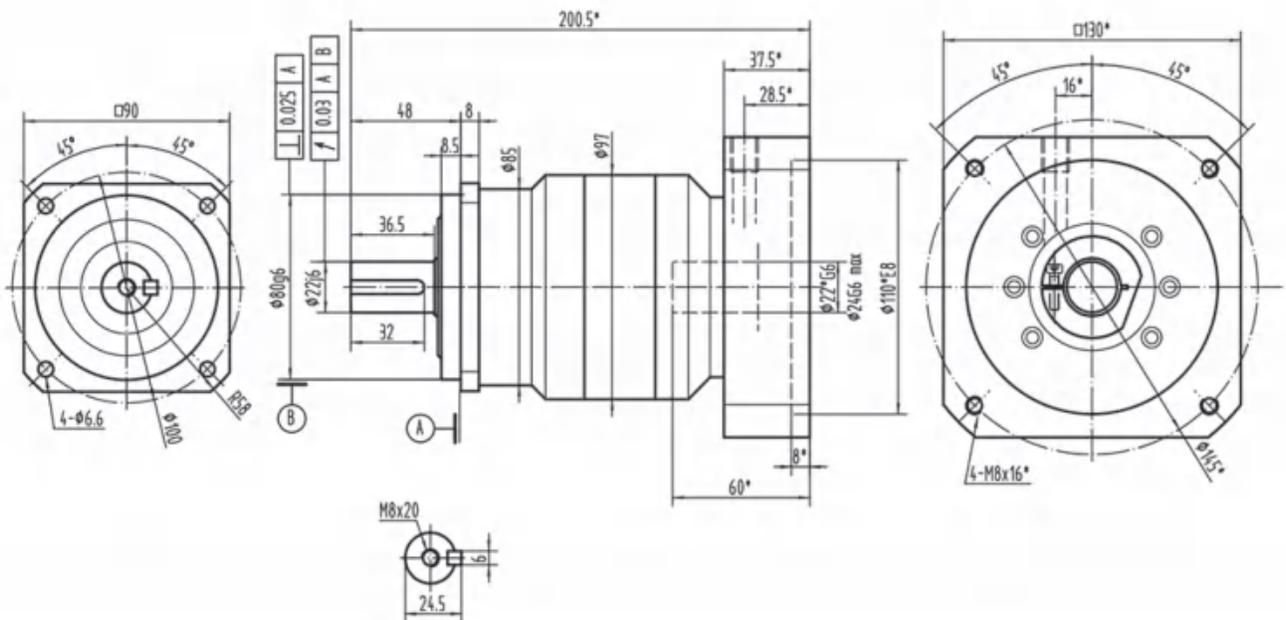
# Drawing / Size

MVB

## MVB-090-L1



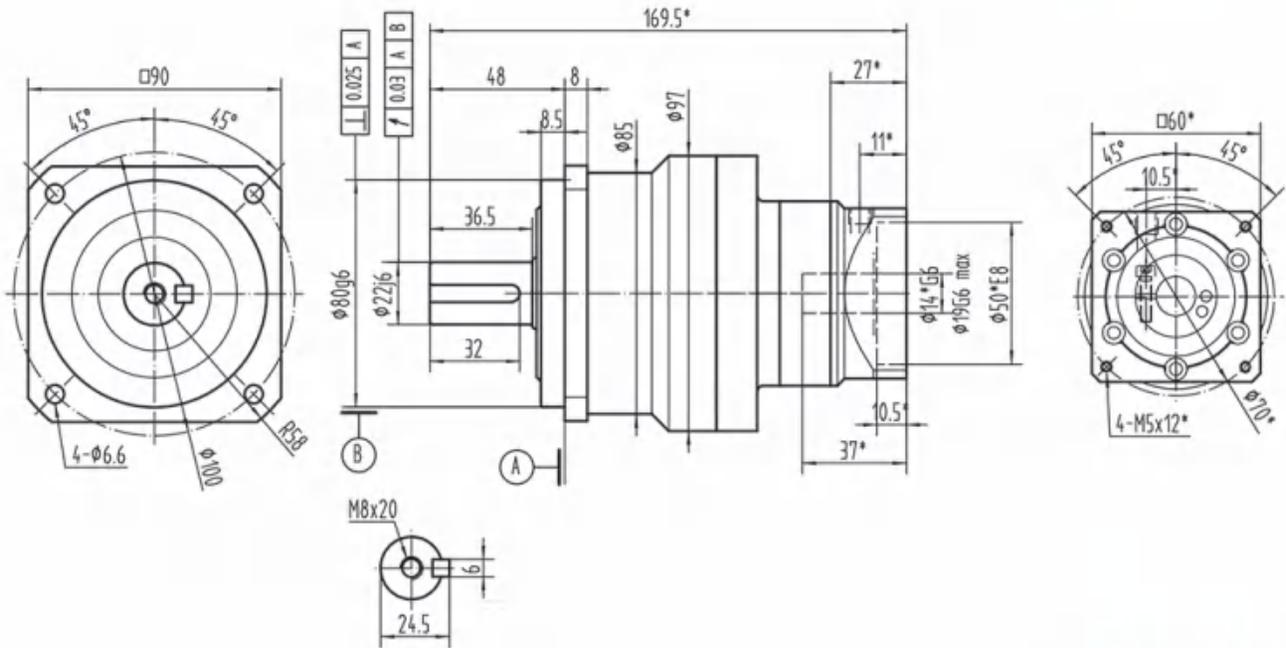
## MVB-090-L2



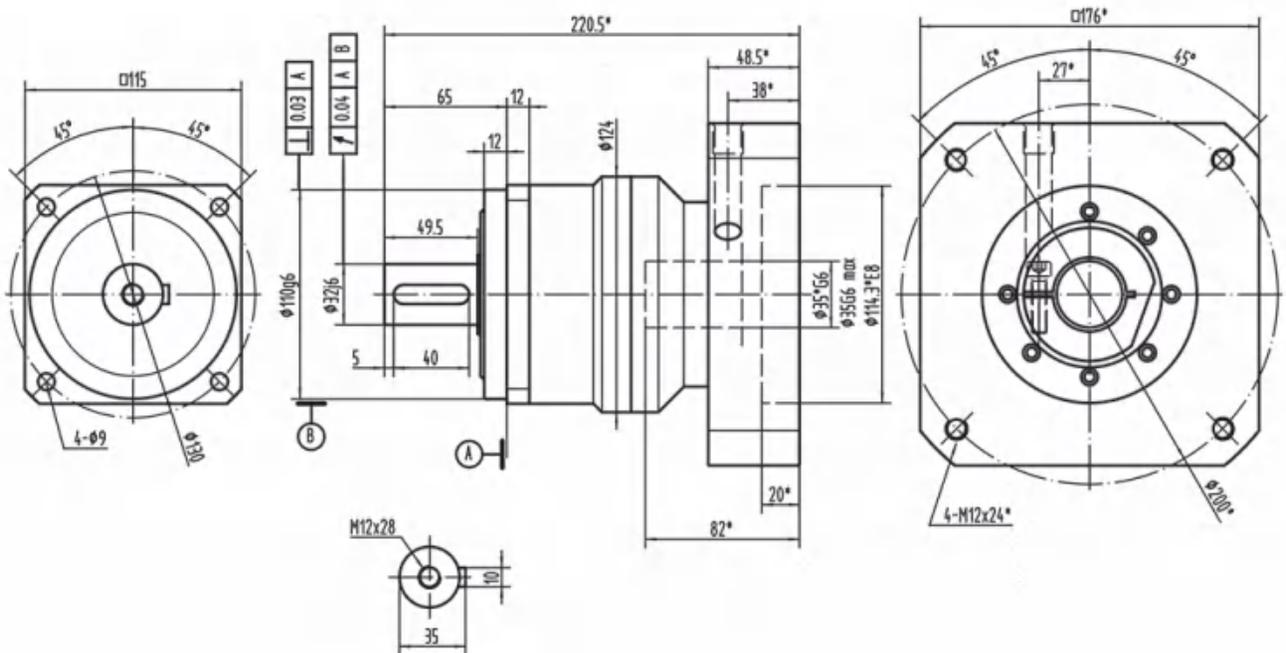
\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

## Drawing / Size

**MVB-090-L2**  
(Smaller hole)



**MVB-120-L1**

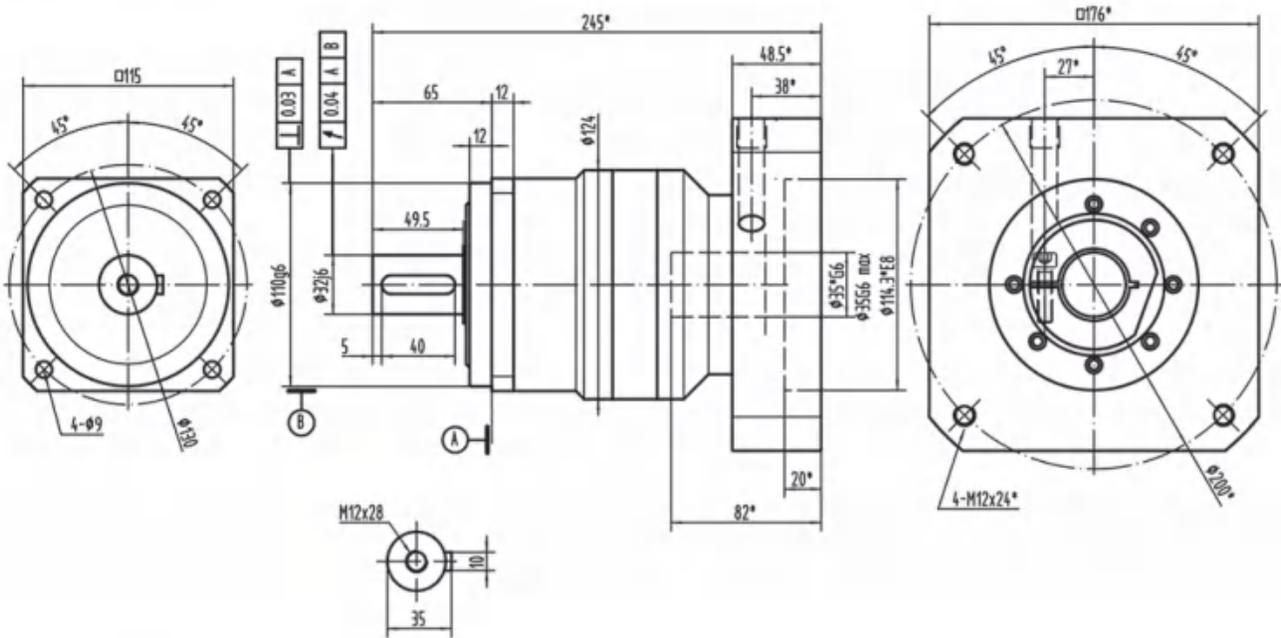


\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

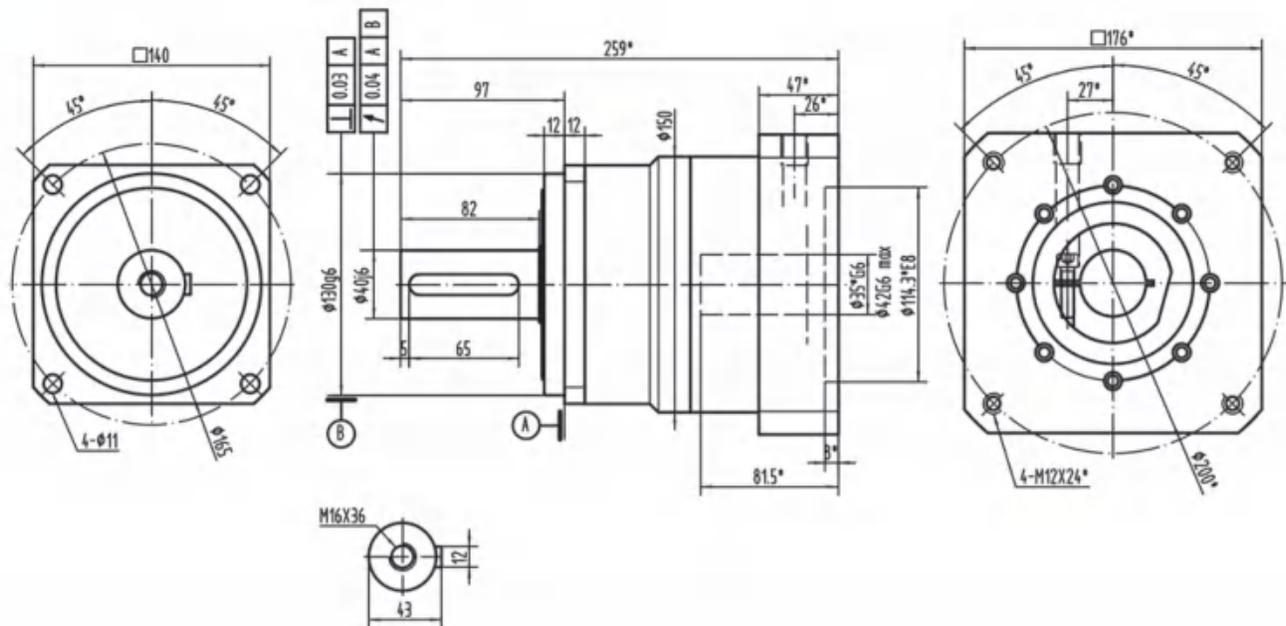
# Drawing / Size

MVB

## MVB-120-L2



## MVB-140-L1

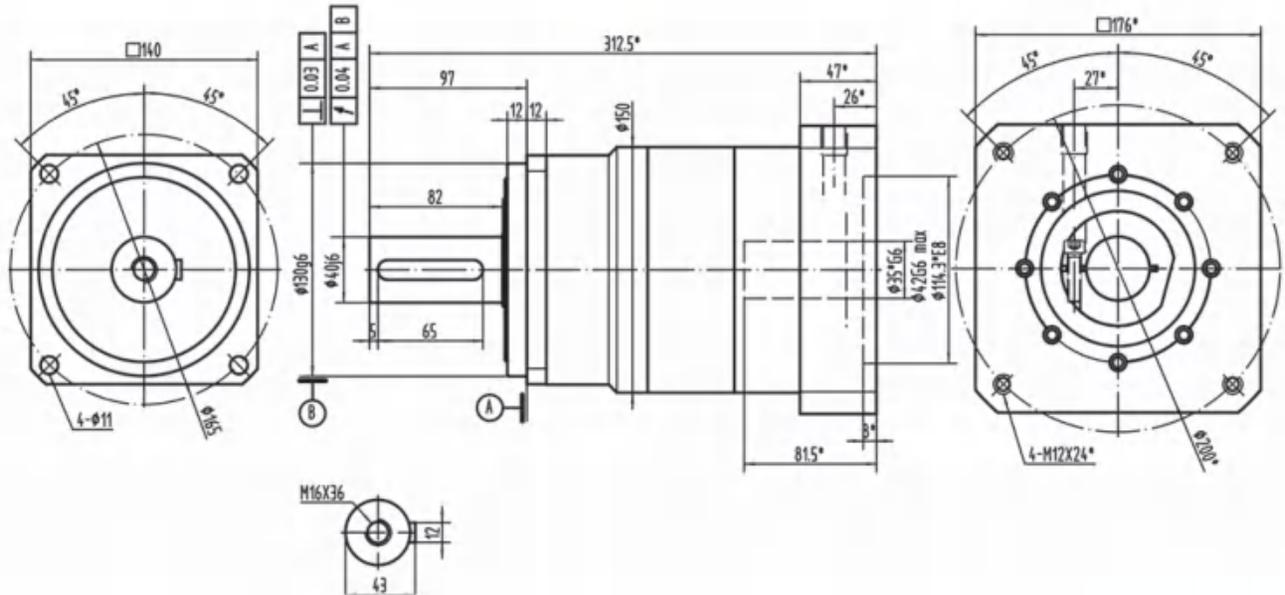


\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

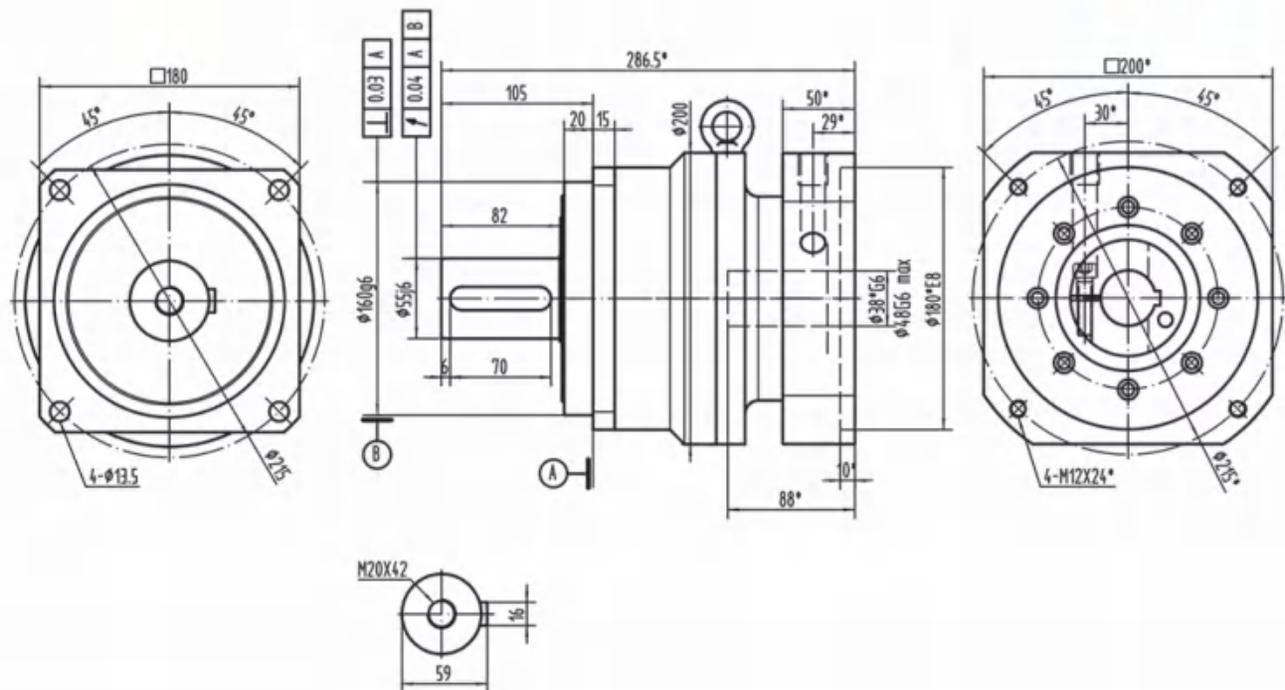
Drawing / Size

MVB-140-L2

MVB



MVB-180-L1

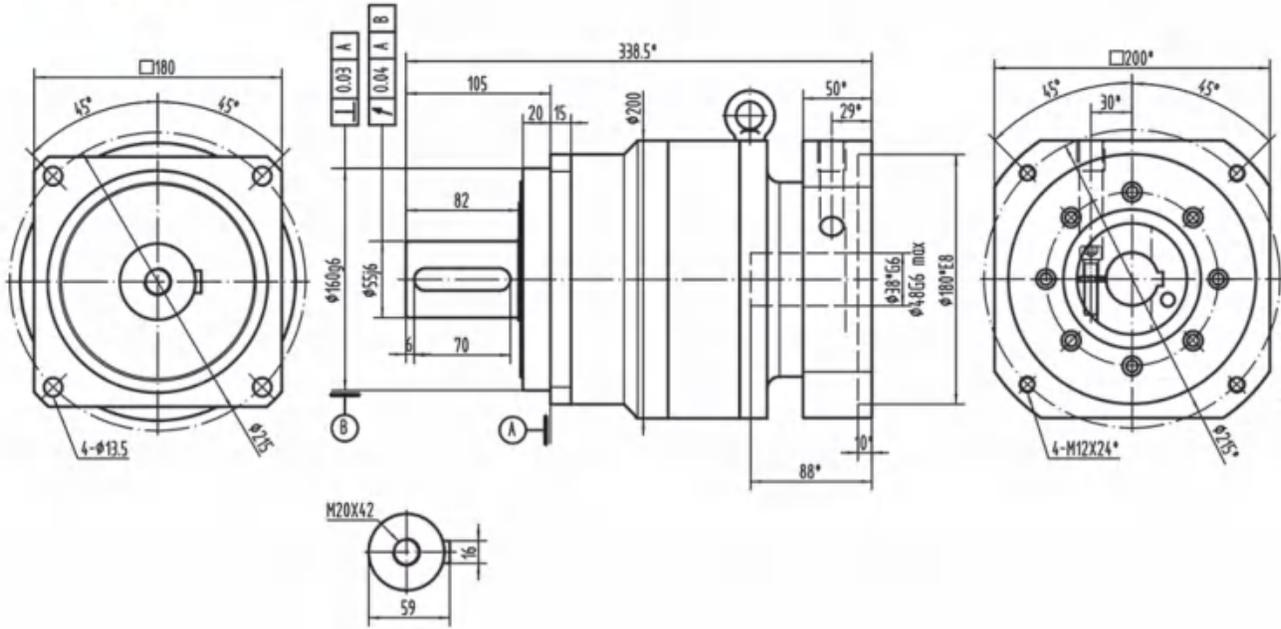


\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

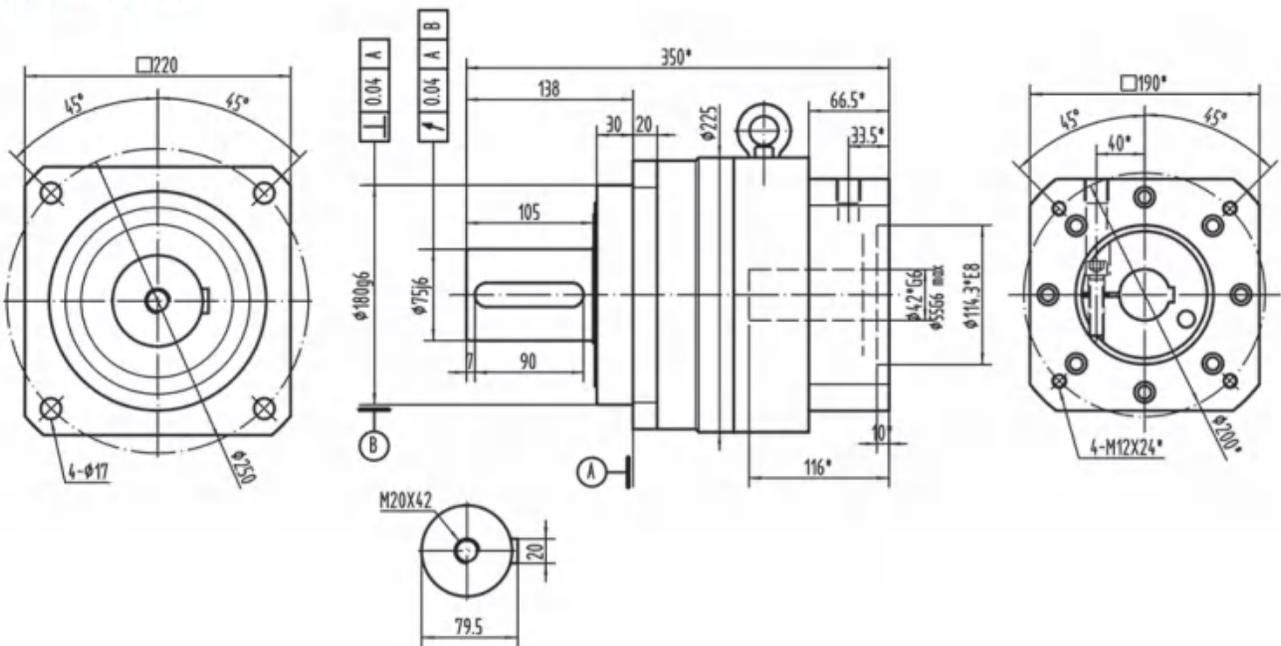
Drawing / Size

MVB

MVB-180-L2



MVB-220-L1

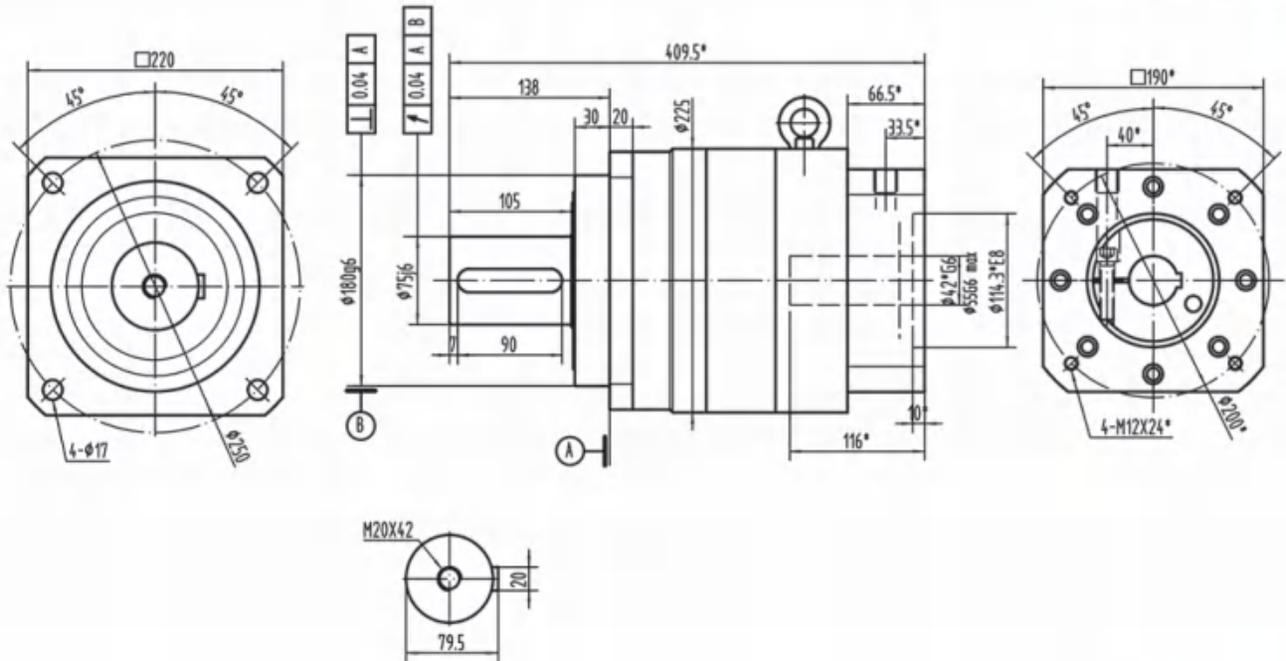


\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

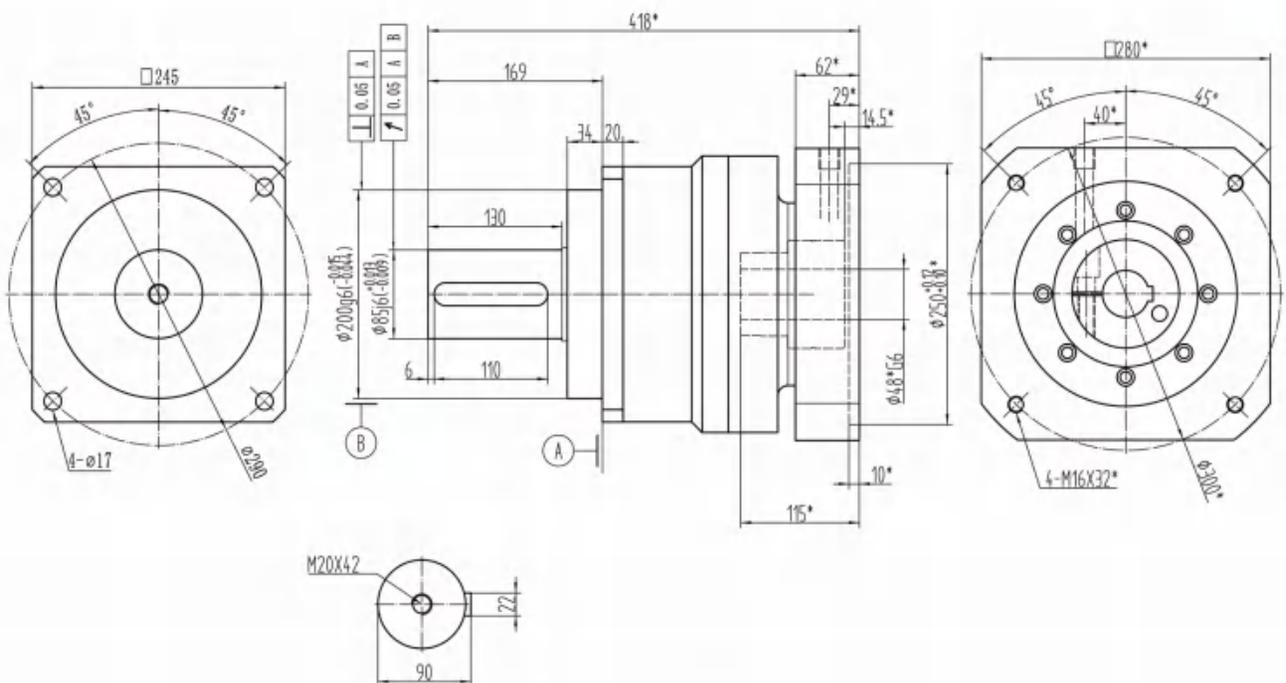
# Drawing / Size

MVB-220-L2

MVB



MVB-240-L1

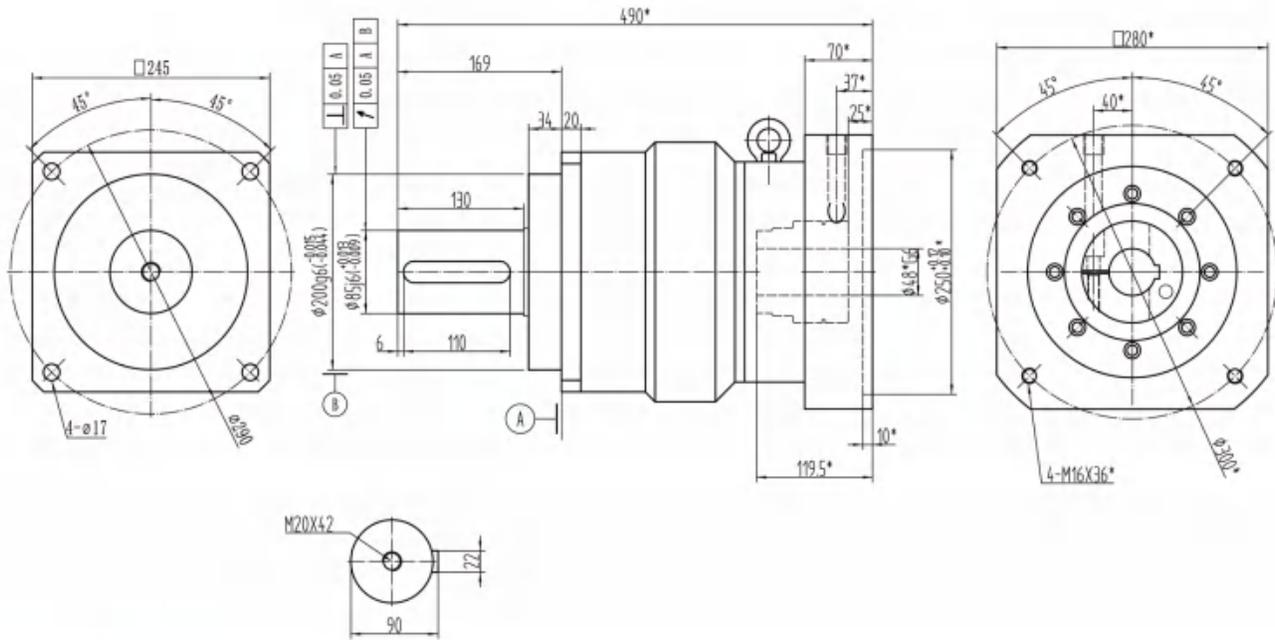


\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

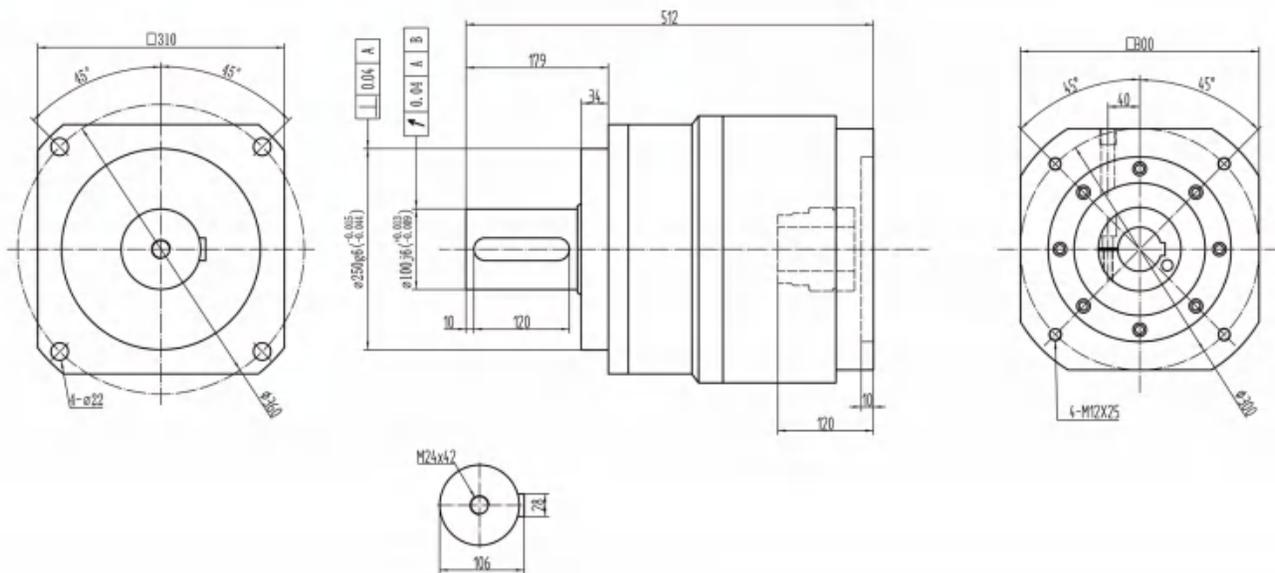
# Drawing / Size

MVB

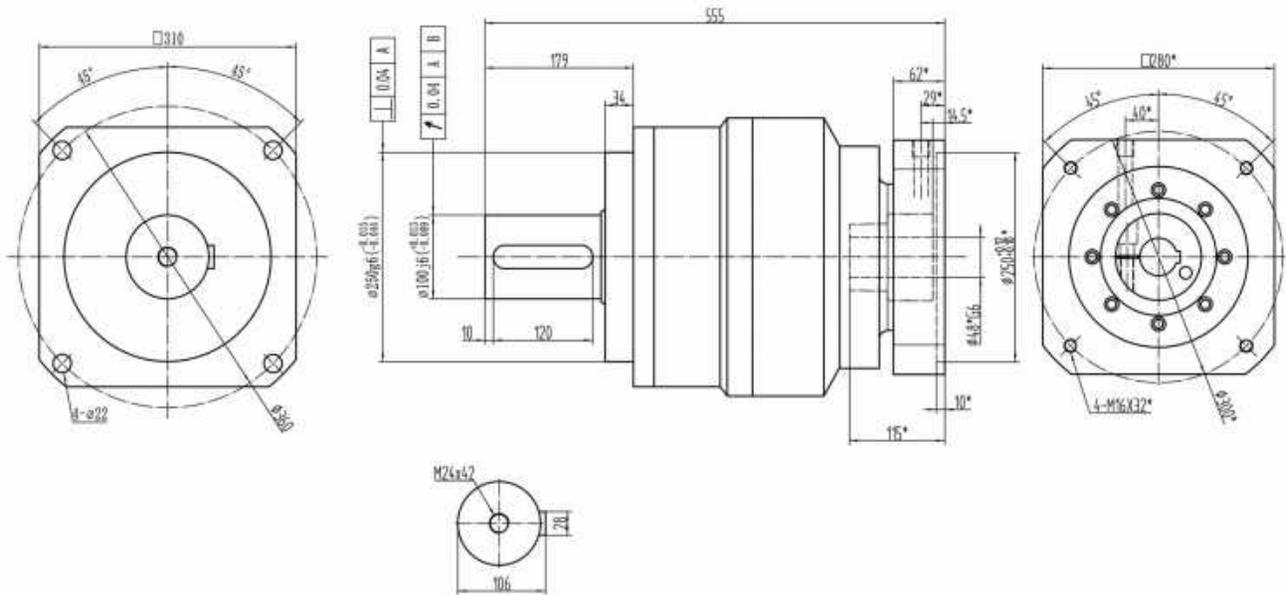
## MVB-240-L2



## MVB-300-L1



\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！



| MVB-040     |    |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|-------------|----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i  | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>i</sub> | C <sub>2r</sub> | F <sub>2PMax</sub> | F <sub>2MMax</sub> | J <sub>2</sub>    | η   | U <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit.       |    | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3  | 14              | 2×T <sub>2N</sub> | 4000            | 8000              | ≤3             | 3               | 700                | 610                | 0.03              | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤63 |
|             | 4  | 14              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 5  | 20              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 6  | 20              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 7  | 20              |                   |                 |                   |                | 2.2             |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 8  | 20              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 9  | 14              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |
| II<br>STAGE | 10 | 14              | 2×T <sub>2N</sub> | 4000            | 8000              | ≤5             | 2.2             | 700                | 610                | 0.03              | ≥90 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤63 |
|             | 15 | 14              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 20 | 14              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 35 | 20              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 40 | 20              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 50 | 20              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 80 | 20              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |
| 100         | 14 | 2.2             |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |

\*Dimensions based on servo-motor, please contact us for custom made order.  
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# Performance table

MVB

| MVB-060    |             |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|------|------|----|---|------|------|------|-----|---------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>1</sub> | C <sub>21</sub> | F <sub>21Max</sub> | F <sub>21Max</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
| I<br>STAGE | 3           | 40              | 2×T <sub>2N</sub> | 3000            | 6000              | ≤3             | 8               | 1500               | 1050               | 0.16              | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤63 |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 4           | 45              |                   |                 |                   |                | 8               |                    |                    | 0.14              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 5           | 60              |                   |                 |                   |                | 8               |                    |                    | 0.13              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 6           | 55              |                   |                 |                   |                | 8               |                    |                    | 0.13              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 7           | 55              |                   |                 |                   |                | 8               |                    |                    | 0.13              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 8           | 55              |                   |                 |                   |                | 8               |                    |                    | 0.13              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 9           | 40              |                   |                 |                   |                | 8               |                    |                    | 0.13              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 10          | 40              |                   |                 |                   |                | 8               |                    |                    | 0.13              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                | 40              |                    |                    | 2×T <sub>2N</sub> |     |                |        |                             |      |             |     | 3000 | 6000 | ≤5 | 8 | 1500 | 1050 | 0.13 | ≥90 | > 20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤63 |
|            |             | 20              |                   |                 |                   |                | 45              |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    | 8 |      |      | 0.13 |     |         |        |                             |      |             |     |
| 35         |             | 60              | 8                 | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
| 40         |             | 55              | 8                 | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
| 50         |             | 55              | 8                 | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
| 80         |             | 55              | 8                 | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
| 100        |             | 40              | 8                 | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |

| MVB-090    |             |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|------|------|----|----|------|------|------|-----|---------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>1</sub> | C <sub>21</sub> | F <sub>21Max</sub> | F <sub>21Max</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| I<br>STAGE | 3           | 100             | 2×T <sub>2N</sub> | 3000            | 6000              | ≤3             | 20              | 3200               | 2300               | 0.61              | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤67 |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 4           | 110             |                   |                 |                   |                | 20              |                    |                    | 0.48              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 5           | 150             |                   |                 |                   |                | 20              |                    |                    | 0.47              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 6           | 150             |                   |                 |                   |                | 20              |                    |                    | 0.47              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 7           | 150             |                   |                 |                   |                | 20              |                    |                    | 0.45              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 8           | 140             |                   |                 |                   |                | 20              |                    |                    | 0.45              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 9           | 100             |                   |                 |                   |                | 20              |                    |                    | 0.42              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 10          | 100             |                   |                 |                   |                | 20              |                    |                    | 0.4               |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                | 100             |                    |                    | 2×T <sub>2N</sub> |     |                |        |                             |      |             |     | 3000 | 6000 | ≤5 | 20 | 3200 | 2300 | 0.13 | ≥90 | > 20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤67 |
|            |             | 20              |                   |                 |                   |                | 110             |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    | 20 |      |      | 0.13 |     |         |        |                             |      |             |     |
| 35         |             | 150             | 20                | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 40         |             | 150             | 20                | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 50         |             | 150             | 20                | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 80         |             | 140             | 20                | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 100        |             | 100             | 20                | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |

## Performance table

| MVB-120    |             |                 |                   |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|------|------|----|----|------|------|------|-----|---------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>12</sub> | F <sub>2RMMax</sub> | F <sub>2MMMax</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                   | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             | dB  |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| I<br>STAGE | 3           | 240             | 2×T <sub>2N</sub> | 3000            | 6000              | ≤3             | 41              | 6000                | 4100                | 3.25              | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤70 |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 4           | 320             |                   |                 |                   |                | 41              |                     |                     | 2.74              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 5           | 360             |                   |                 |                   |                | 41              |                     |                     | 2.71              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 6           | 350             |                   |                 |                   |                | 41              |                     |                     | 2.6               |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 7           | 360             |                   |                 |                   |                | 41              |                     |                     | 2.6               |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 8           | 360             |                   |                 |                   |                | 41              |                     |                     | 2.6               |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 9           | 240             |                   |                 |                   |                | 41              |                     |                     | 2.6               |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 10          | 240             |                   |                 |                   |                | 41              |                     |                     | 2.6               |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                | 240             |                     |                     | 2×T <sub>2N</sub> |     |                |        |                             |      |             |     | 3000 | 6000 | ≤5 | 41 | 6000 | 4100 | 0.45 | ≥90 | > 20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤70 |
|            |             | 20              |                   |                 |                   |                | 320             |                     |                     |                   |     |                |        |                             |      |             |     |      |      |    | 41 |      |      | 0.45 |     |         |        |                             |      |             |     |
| 35         |             | 360             | 41                | 0.45            |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 40         |             | 360             | 41                | 0.45            |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 50         |             | 360             | 41                | 0.4             |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 80         |             | 360             | 41                | 0.4             |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 100        |             | 240             | 41                | 0.4             |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |

| MVB-140    |             |                 |                   |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|------|------|----|----|------|------|------|-----|---------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>12</sub> | F <sub>2RMMax</sub> | F <sub>2MMMax</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                   | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             | dB  |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| I<br>STAGE | 3           | 350             | 2×T <sub>2N</sub> | 3000            | 6000              | ≤3             | 50              | 9000                | 8300                | 9.21              | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤72 |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 4           | 550             |                   |                 |                   |                | 50              |                     |                     | 7.54              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 5           | 600             |                   |                 |                   |                | 50              |                     |                     | 7.42              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 6           | 600             |                   |                 |                   |                | 50              |                     |                     | 7.42              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 7           | 600             |                   |                 |                   |                | 50              |                     |                     | 7.14              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 8           | 550             |                   |                 |                   |                | 50              |                     |                     | 7.14              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 9           | 380             |                   |                 |                   |                | 50              |                     |                     | 7.08              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 10          | 380             |                   |                 |                   |                | 50              |                     |                     | 7.03              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                | 460             |                     |                     | 2×T <sub>2N</sub> |     |                |        |                             |      |             |     | 3000 | 6000 | ≤5 | 50 | 9000 | 8300 | 2.63 | ≥90 | > 20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤72 |
|            |             | 20              |                   |                 |                   |                | 650             |                     |                     |                   |     |                |        |                             |      |             |     |      |      |    | 50 |      |      | 2.63 |     |         |        |                             |      |             |     |
| 35         |             | 700             | 50                | 2.43            |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 40         |             | 700             | 50                | 2.43            |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 50         |             | 700             | 50                | 2.39            |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 80         |             | 700             | 50                | 2.39            |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 100        |             | 460             | 50                | 2.39            |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |

# Performance table

MVB

| MVB-180    |             |                 |                   |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |     |     |         |        |                             |      |             |  |  |  |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|--|----|--|------|------|----|-----|-------|-------|-----|-----|---------|--------|-----------------------------|------|-------------|--|--|--|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>2t</sub> | F <sub>200Max</sub> | F <sub>200Min</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          |  |    |  |      |      |    |     |       |       |     |     |         |        |                             |      |             |  |  |  |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                   | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |  | dB |  |      |      |    |     |       |       |     |     |         |        |                             |      |             |  |  |  |
| I<br>STAGE | 3           | 600             | 2×T <sub>2N</sub> | 2000            | 4000              | ≤3             | 145             | 14500               | 13500               | 28.98             | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 |  |    |  |      |      |    |     |       |       |     |     |         |        |                             |      |             |  |  |  |
|            | 4           | 1000            |                   |                 |                   |                | 145             |                     |                     | 23.67             |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |     |     |         |        |                             |      |             |  |  |  |
|            | 5           | 1000            |                   |                 |                   |                | 145             |                     |                     | 23.29             |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |     |     |         |        |                             |      |             |  |  |  |
|            | 6           | 1000            |                   |                 |                   |                | 145             |                     |                     | 22.29             |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |     |     |         |        |                             |      |             |  |  |  |
|            | 7           | 1000            |                   |                 |                   |                | 145             |                     |                     | 22.48             |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |     |     |         |        |                             |      |             |  |  |  |
|            | 8           | 1000            |                   |                 |                   |                | 145             |                     |                     | 22.48             |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |     |     |         |        |                             |      |             |  |  |  |
|            | 9           | 650             |                   |                 |                   |                | 145             |                     |                     | 22.40             |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |     |     |         |        |                             |      |             |  |  |  |
|            | 10          | 650             |                   |                 |                   |                | 145             |                     |                     | 22.51             |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |     |     |         |        |                             |      |             |  |  |  |
|            | II<br>STAGE | 15              |                   |                 |                   |                | 980             |                     |                     | 2×T <sub>2N</sub> |     |                |        |                             |      |             |  |    |  | 2000 | 4000 | ≤5 | 145 | 14500 | 13500 | 7.3 | ≥90 | > 20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 |  |  |  |
|            |             | 20              |                   |                 |                   |                | 1350            |                     |                     |                   |     |                |        |                             |      |             |  |    |  |      |      |    | 145 |       |       | 7.3 |     |         |        |                             |      |             |  |  |  |
| 35         |             | 1400            | 145               | 7.1             |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |     |     |         |        |                             |      |             |  |  |  |
| 40         |             | 1350            | 145               | 6.92            |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |     |     |         |        |                             |      |             |  |  |  |
| 50         |             | 1400            | 145               | 6.92            |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |     |     |         |        |                             |      |             |  |  |  |
| 80         |             | 1400            | 145               | 6.72            |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |     |     |         |        |                             |      |             |  |  |  |
| 100        |             | 980             | 145               | 6.72            |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |     |     |         |        |                             |      |             |  |  |  |

| MVB-220    |             |                 |                   |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |       |     |         |        |                             |      |             |  |  |  |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|--|----|--|------|------|----|-----|-------|-------|-------|-----|---------|--------|-----------------------------|------|-------------|--|--|--|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>2t</sub> | F <sub>200Max</sub> | F <sub>200Min</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          |  |    |  |      |      |    |     |       |       |       |     |         |        |                             |      |             |  |  |  |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                   | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |  | dB |  |      |      |    |     |       |       |       |     |         |        |                             |      |             |  |  |  |
| I<br>STAGE | 3           | 1100            | 2×T <sub>2N</sub> | 1500            | 3000              | ≤3             | 225             | 20500               | 19000               | 69.61             | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 |  |    |  |      |      |    |     |       |       |       |     |         |        |                             |      |             |  |  |  |
|            | 4           | 1600            |                   |                 |                   |                | 225             |                     |                     | 54.37             |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |       |     |         |        |                             |      |             |  |  |  |
|            | 5           | 1800            |                   |                 |                   |                | 225             |                     |                     | 53.27             |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |       |     |         |        |                             |      |             |  |  |  |
|            | 6           | 1800            |                   |                 |                   |                | 225             |                     |                     | 53.27             |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |       |     |         |        |                             |      |             |  |  |  |
|            | 7           | 1800            |                   |                 |                   |                | 225             |                     |                     | 50.97             |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |       |     |         |        |                             |      |             |  |  |  |
|            | 8           | 1800            |                   |                 |                   |                | 225             |                     |                     | 50.88             |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |       |     |         |        |                             |      |             |  |  |  |
|            | 9           | 1200            |                   |                 |                   |                | 225             |                     |                     | 50.73             |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |       |     |         |        |                             |      |             |  |  |  |
|            | 10          | 1200            |                   |                 |                   |                | 225             |                     |                     | 50.56             |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |       |     |         |        |                             |      |             |  |  |  |
|            | II<br>STAGE | 15              |                   |                 |                   |                | 1300            |                     |                     | 2×T <sub>2N</sub> |     |                |        |                             |      |             |  |    |  | 1500 | 3000 | ≤5 | 225 | 20500 | 19000 | 22.79 | ≥90 | > 20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 |  |  |  |
|            |             | 20              |                   |                 |                   |                | 1800            |                     |                     |                   |     |                |        |                             |      |             |  |    |  |      |      |    | 225 |       |       | 22.79 |     |         |        |                             |      |             |  |  |  |
| 35         |             | 1900            | 225               | 22.59           |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |       |     |         |        |                             |      |             |  |  |  |
| 40         |             | 1900            | 225               | 21.83           |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |       |     |         |        |                             |      |             |  |  |  |
| 50         |             | 1900            | 225               | 21.83           |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |       |     |         |        |                             |      |             |  |  |  |
| 80         |             | 1900            | 225               | 21.70           |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |       |     |         |        |                             |      |             |  |  |  |
| 100        |             | 1300            | 225               | 21.60           |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |  |    |  |      |      |    |     |       |       |       |     |         |        |                             |      |             |  |  |  |

## Performance table

| MVB-240     |     |                 |                   |                 |                   |                |                |                     |                   |                   |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|----------------|---------------------|-------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Net</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>t</sub> | C <sub>t</sub> | F <sub>205Max</sub> | F <sub>2Max</sub> | J <sub>t</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          |     |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin      | N                   | N                 | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             | dB  |
| I<br>STAGE  | 3   | 3000            |                   |                 |                   |                |                |                     |                   | 180               | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤77 |
|             | 4   | 3000            |                   |                 |                   |                |                |                     | 180               |                   |     |                |        |                             |      |             |     |
|             | 5   | 3150            |                   |                 |                   |                |                |                     | 170               |                   |     |                |        |                             |      |             |     |
|             | 6   | 3150            |                   |                 |                   |                |                |                     | 170               |                   |     |                |        |                             |      |             |     |
|             | 7   | 3150            |                   |                 |                   | ≤3             |                |                     | 170               |                   |     |                |        |                             |      |             |     |
|             | 8   | 3000            |                   |                 |                   |                |                |                     | 170               |                   |     |                |        |                             |      |             |     |
|             | 9   | 2400            | 2×T <sub>2N</sub> | 1000            | 2500              |                | 540            | 29000               | 26500             | 150               |     |                |        |                             |      |             |     |
|             | 10  | 2200            |                   |                 |                   |                |                |                     | 150               |                   |     |                |        |                             |      |             |     |
| II<br>STAGE | 15  | 3000            |                   |                 |                   |                |                |                     |                   | 64                | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤77 |
|             | 20  | 3000            |                   |                 |                   |                |                |                     | 64                |                   |     |                |        |                             |      |             |     |
|             | 25  | 3150            |                   |                 |                   |                |                |                     | 64                |                   |     |                |        |                             |      |             |     |
|             | 50  | 3150            |                   |                 |                   | ≤5             |                |                     | 64                |                   |     |                |        |                             |      |             |     |
|             | 80  | 3150            |                   |                 |                   |                |                |                     | 64                |                   |     |                |        |                             |      |             |     |
|             | 100 | 2300            |                   |                 |                   |                |                |                     | 64                |                   |     |                |        |                             |      |             |     |

| MVB-300     |      |                 |                   |                 |                   |                |                |                     |                   |                   |     |                |        |                             |      |             |     |
|-------------|------|-----------------|-------------------|-----------------|-------------------|----------------|----------------|---------------------|-------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i    | T <sub>2N</sub> | T <sub>2Net</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>t</sub> | C <sub>t</sub> | F <sub>205Max</sub> | F <sub>2Max</sub> | J <sub>t</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          |     |
| Unit        |      | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin      | N                   | N                 | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             | dB  |
| I<br>STAGE  | 3    | 8150            |                   |                 |                   |                |                |                     |                   | 252.96            | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤75 |
|             | 4    | 8730            |                   |                 |                   |                |                |                     | 230.72            |                   |     |                |        |                             |      |             |     |
|             | 5    | 8660            |                   |                 |                   |                |                |                     | 226.05            |                   |     |                |        |                             |      |             |     |
|             | 7    | 8520            |                   |                 |                   | ≤3             |                |                     | 216.29            |                   |     |                |        |                             |      |             |     |
|             | 10   | 8310            | 2×T <sub>2N</sub> | 2000            | 3000              |                | 980            | 224500              | 112000            | 214.55            |     |                |        |                             |      |             |     |
| II<br>STAGE | 15   | 8150            |                   |                 |                   |                |                |                     |                   | 185.05            | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤75 |
|             | 20   | 8730            |                   |                 |                   |                |                |                     | 185.05            |                   |     |                |        |                             |      |             |     |
|             | 25   | 8660            |                   |                 |                   |                |                |                     | 185.05            |                   |     |                |        |                             |      |             |     |
|             | 35   | 8520            |                   |                 |                   |                |                |                     | 183.43            |                   |     |                |        |                             |      |             |     |
|             | 40   | 8440            |                   |                 |                   | ≤5             |                |                     | 183.43            |                   |     |                |        |                             |      |             |     |
|             | 50   | 8660            |                   |                 |                   |                |                |                     | 183.43            |                   |     |                |        |                             |      |             |     |
|             | 70   | 8520            |                   |                 |                   |                |                |                     | 177.26            |                   |     |                |        |                             |      |             |     |
| 100         | 8310 |                 |                   |                 |                   |                |                | 175.39              |                   |                   |     |                |        |                             |      |             |     |

**MVE SERIES**



专门为频繁反复和紧急加速而设计，MVE系列可提供高精度、高刚性和高扭矩。  
Powerful, robust and precise, this planetary gearbox is designed to work under heavy operating duty.



造型数据：  
Selection data:

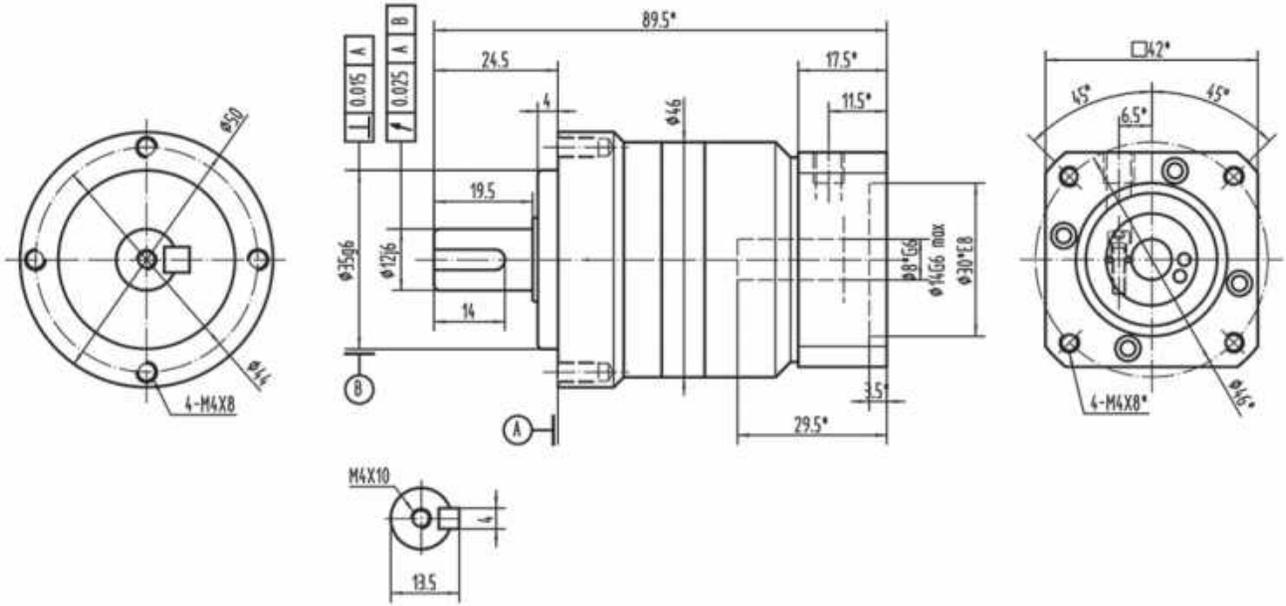
|               |         |
|---------------|---------|
| 扭矩 ( Nm )     | 14-1900 |
| 速比            | 3-100   |
| 背隙 ( arcmin ) | 3-5     |
| 最大工作温度 ( °C ) | 90      |
| 噪音 ( dB )     | 63-77   |

|                                |         |
|--------------------------------|---------|
| Nominal output torque ( Nm )   | 14-1900 |
| Reduction ratio                | 3-100   |
| Backlash ( arcmin )            | 3-5     |
| Max.working temperature ( °C ) | 90      |
| Noise ( dB )                   | 63-77   |

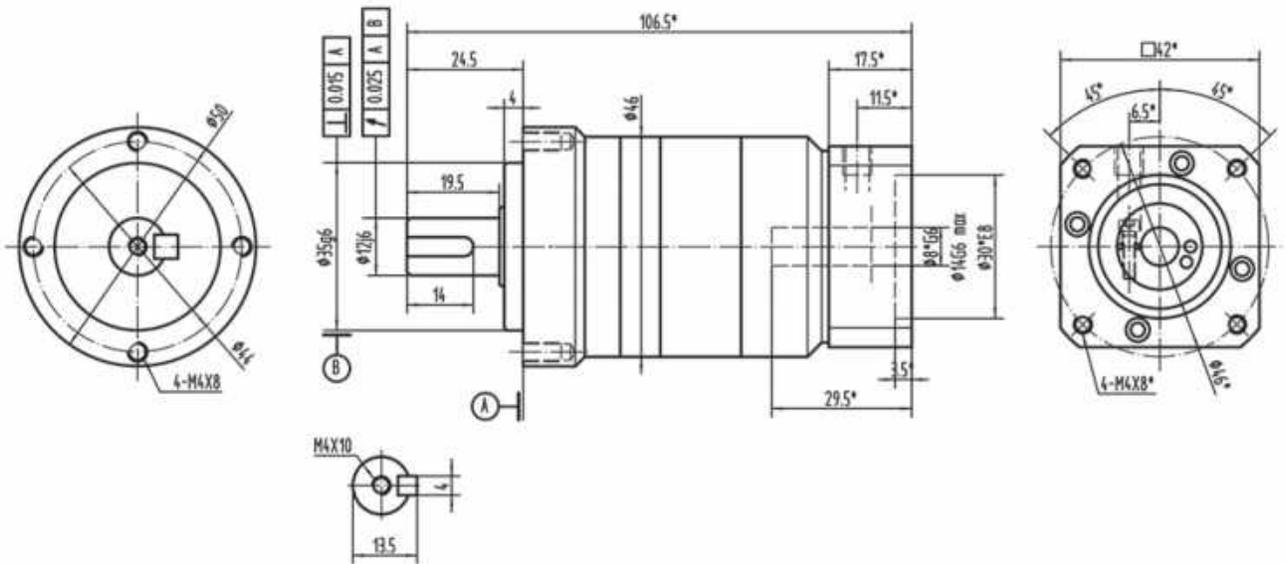
# Drawing / Size

## MVE-040-L1

MVE



## MVE-040-L2

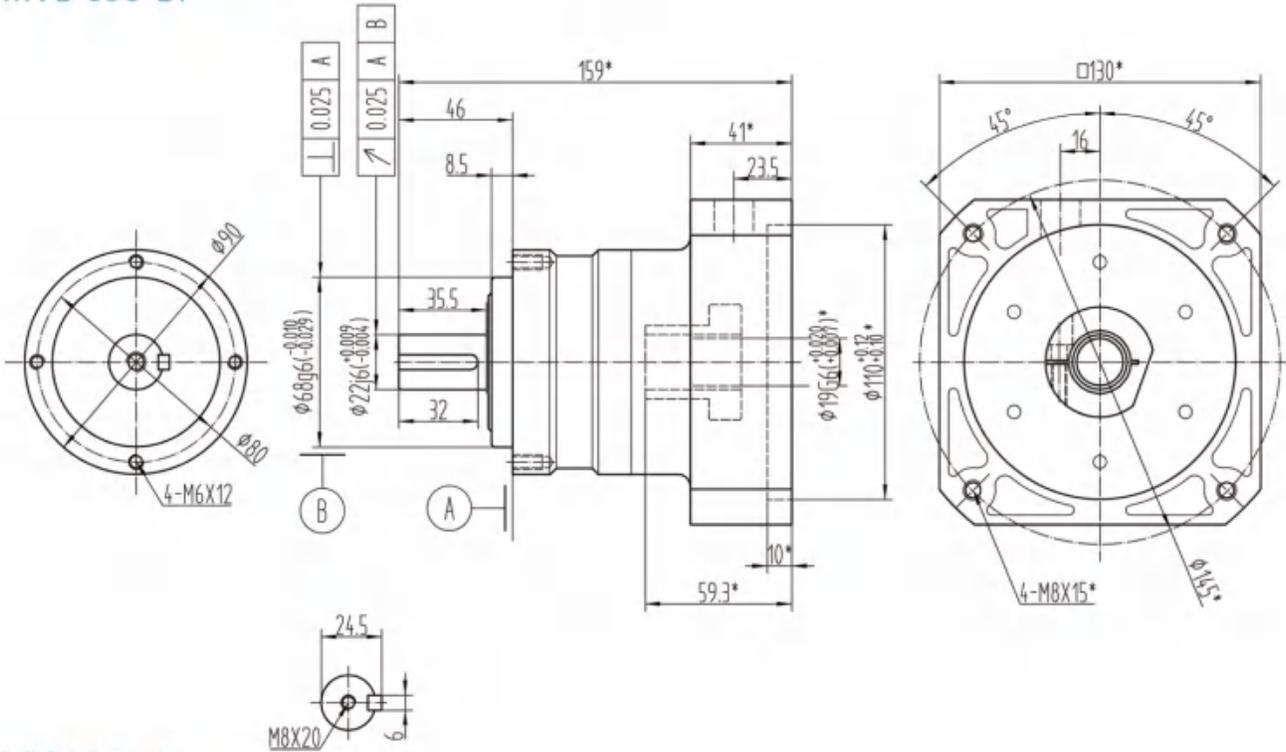


\*Dimensions based on servo-motor, please contact us for custom made order.  
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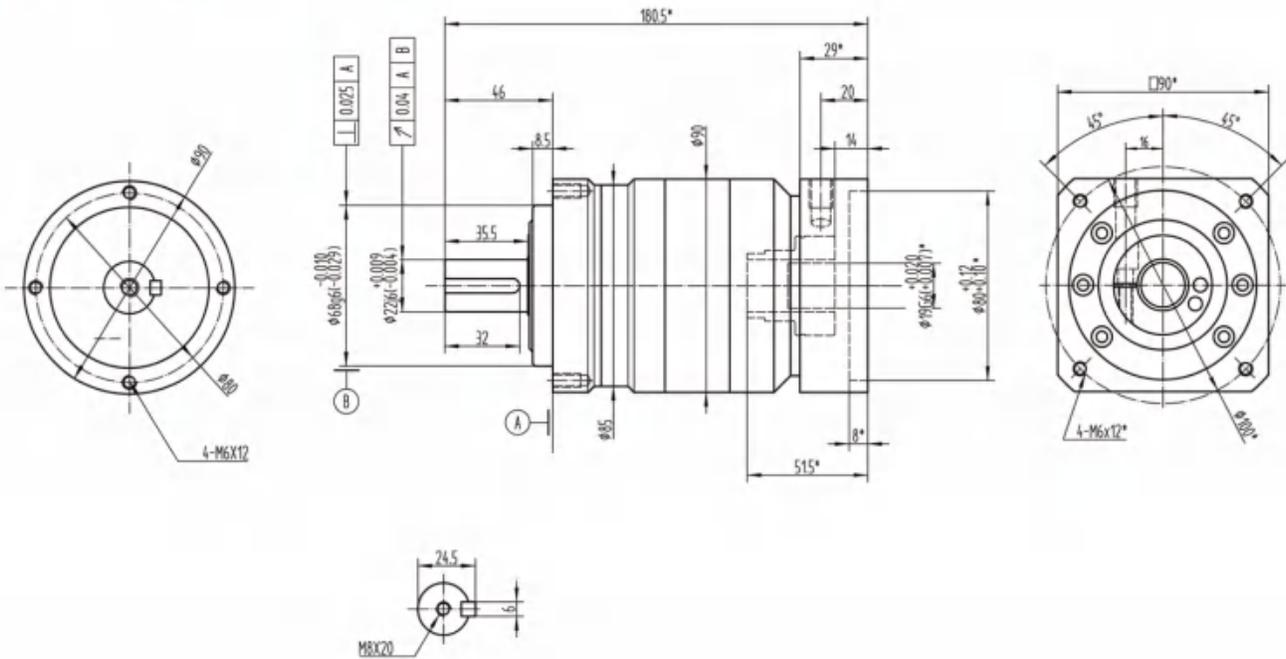


# Drawing / Size

## MVE-090-L1



## MVE-090-L2

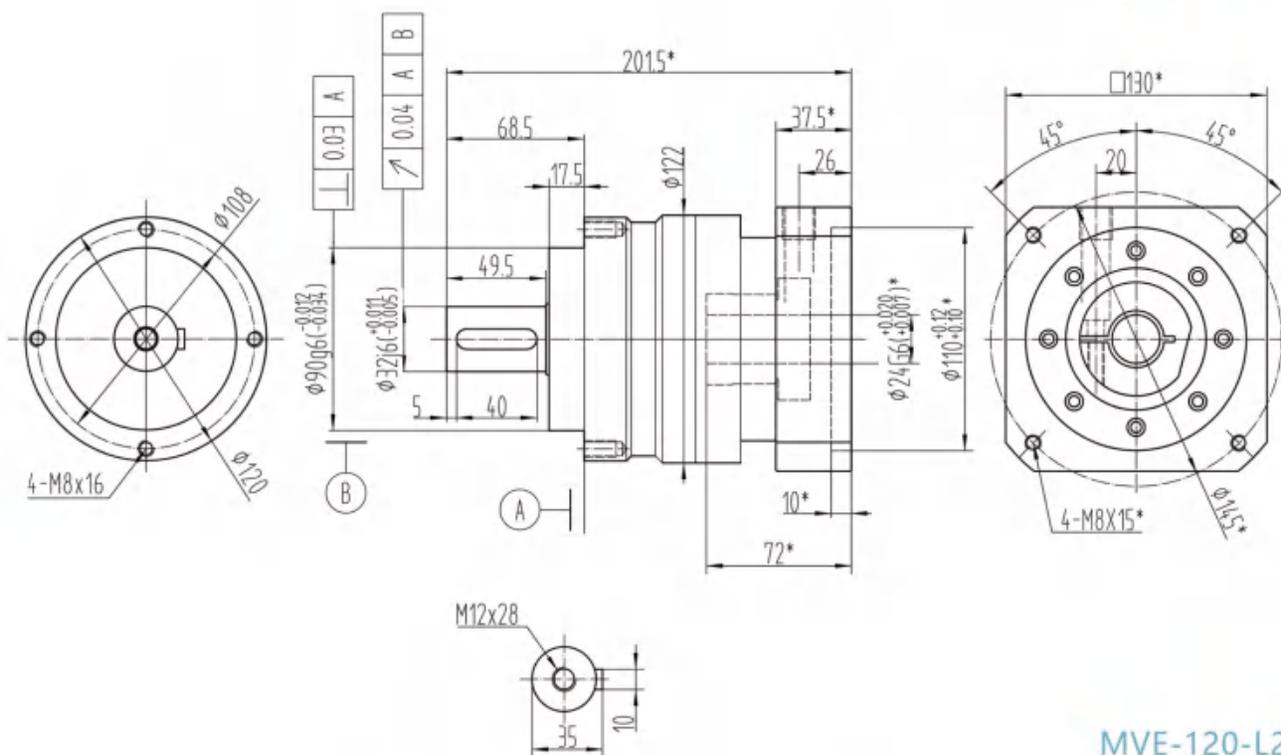


\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

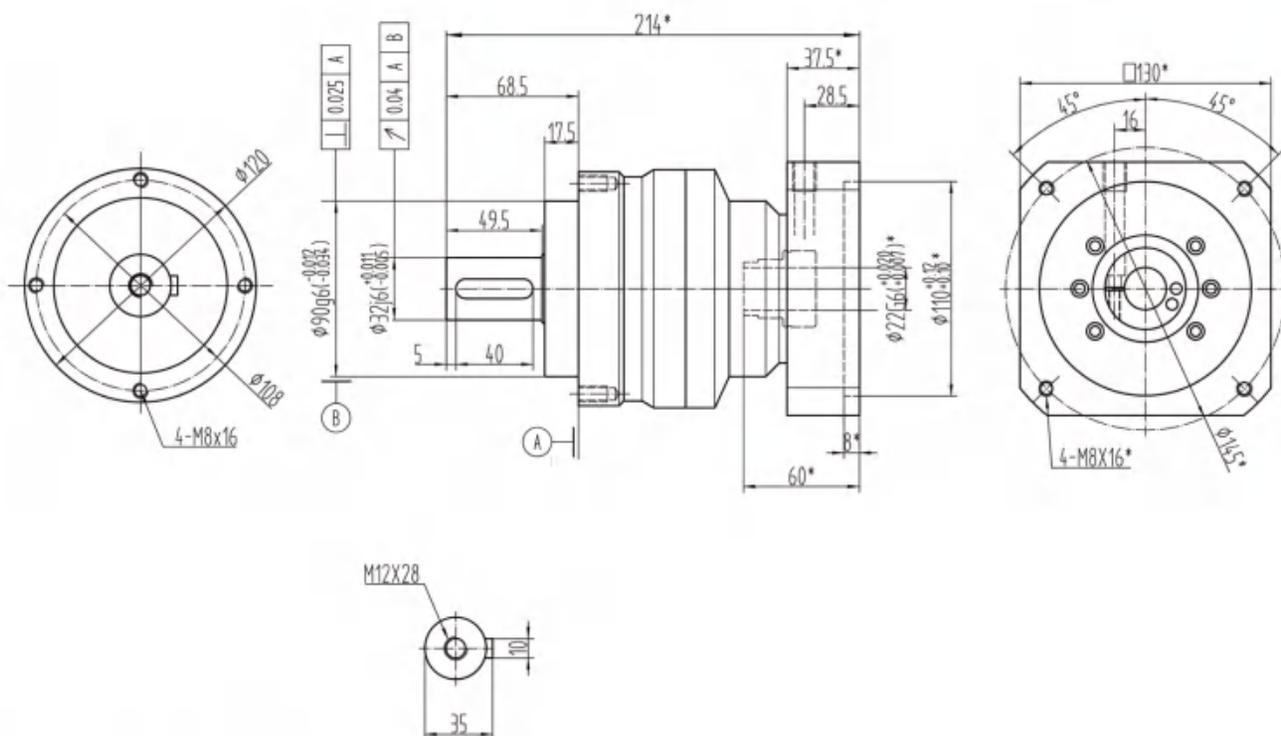
# Drawing / Size

MVE-120-L1

MVE



MVE-120-L2

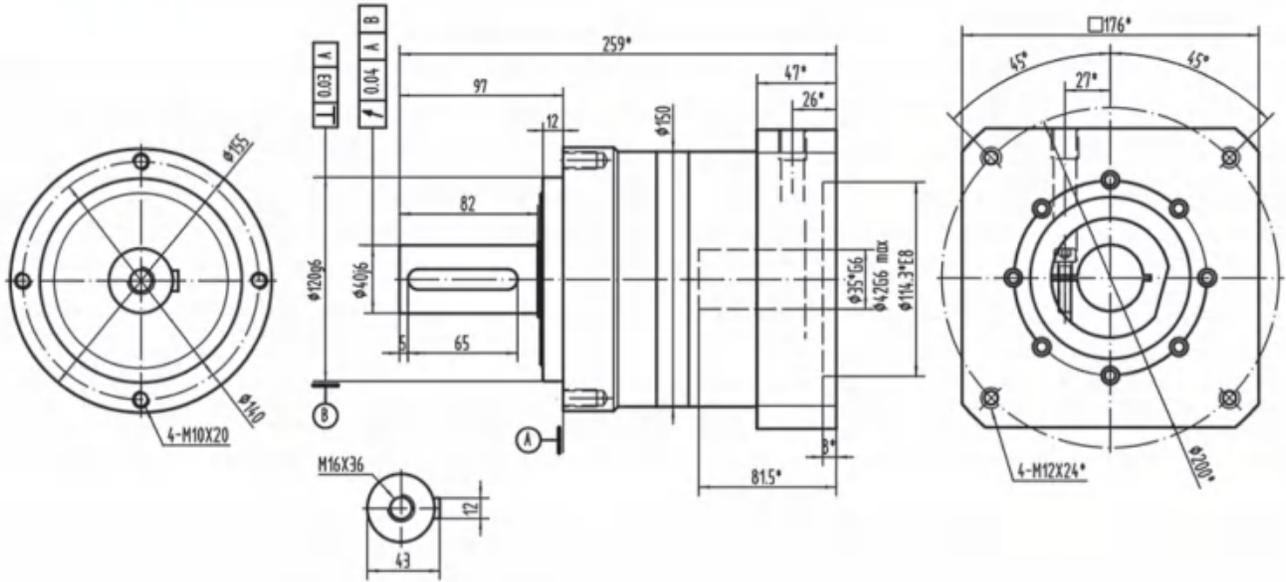


\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

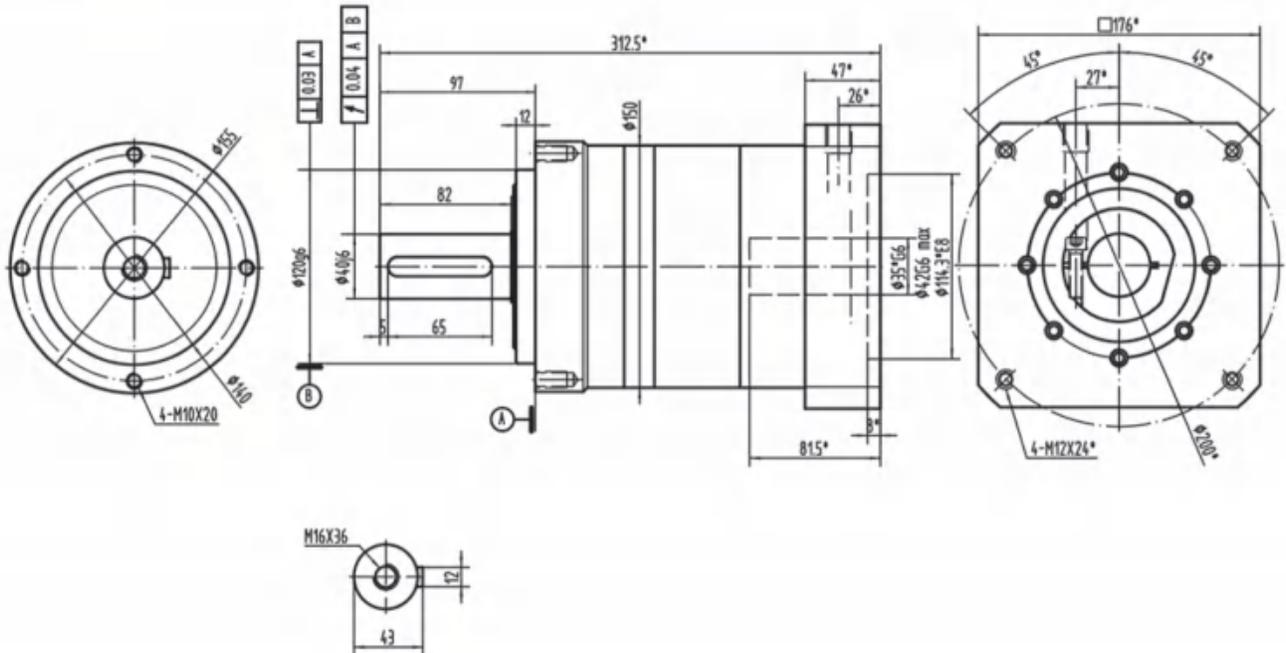
# Drawing / Size

## MVE-155-L1

MVE



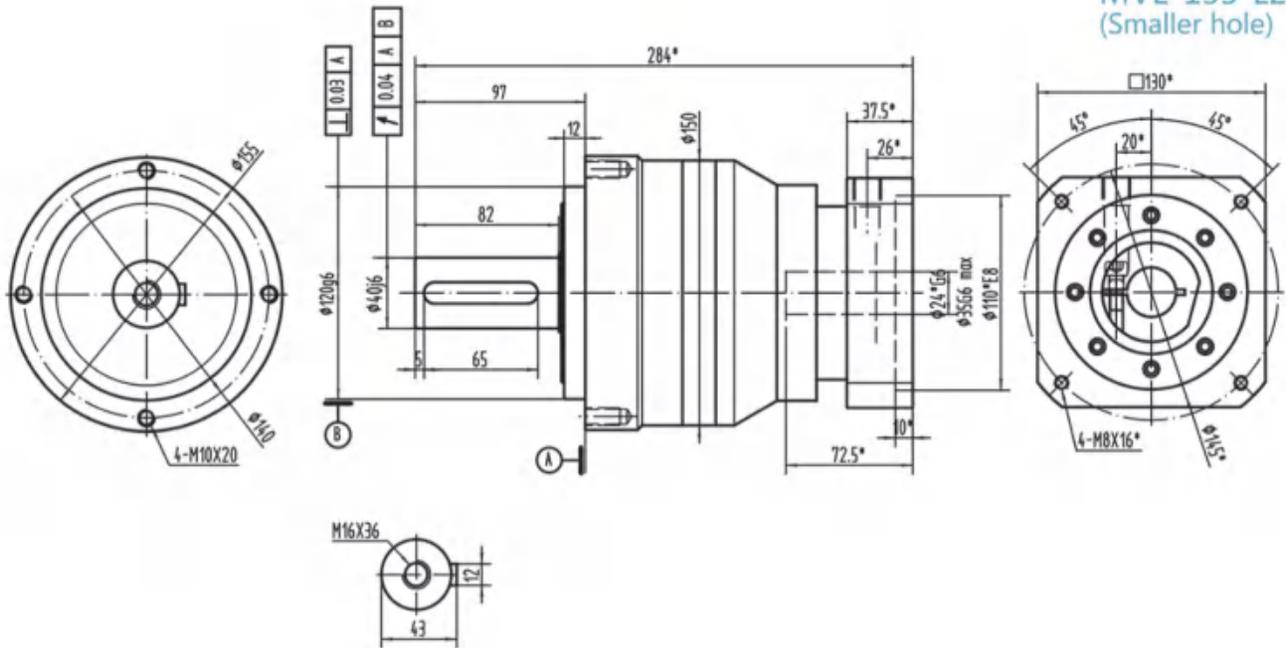
## MVE-155-L2



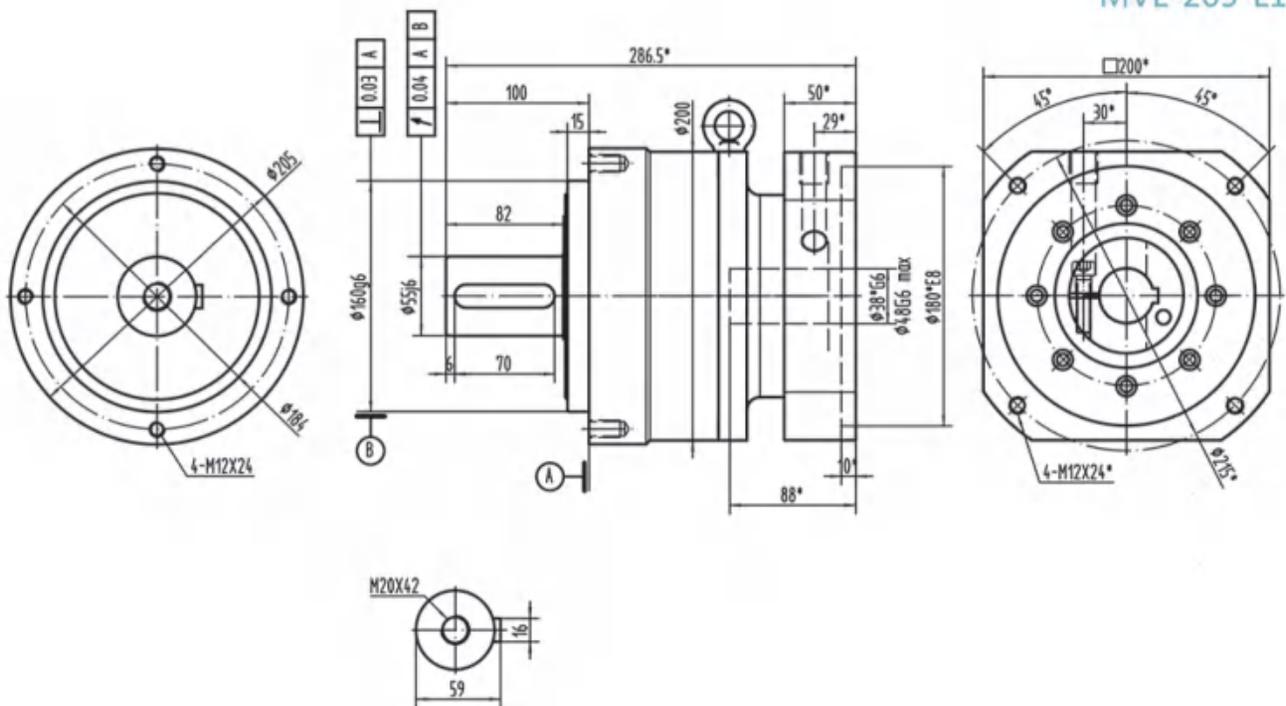
\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

Drawing / Size

MVE-155-L2  
(Smaller hole)



MVE-205-L1

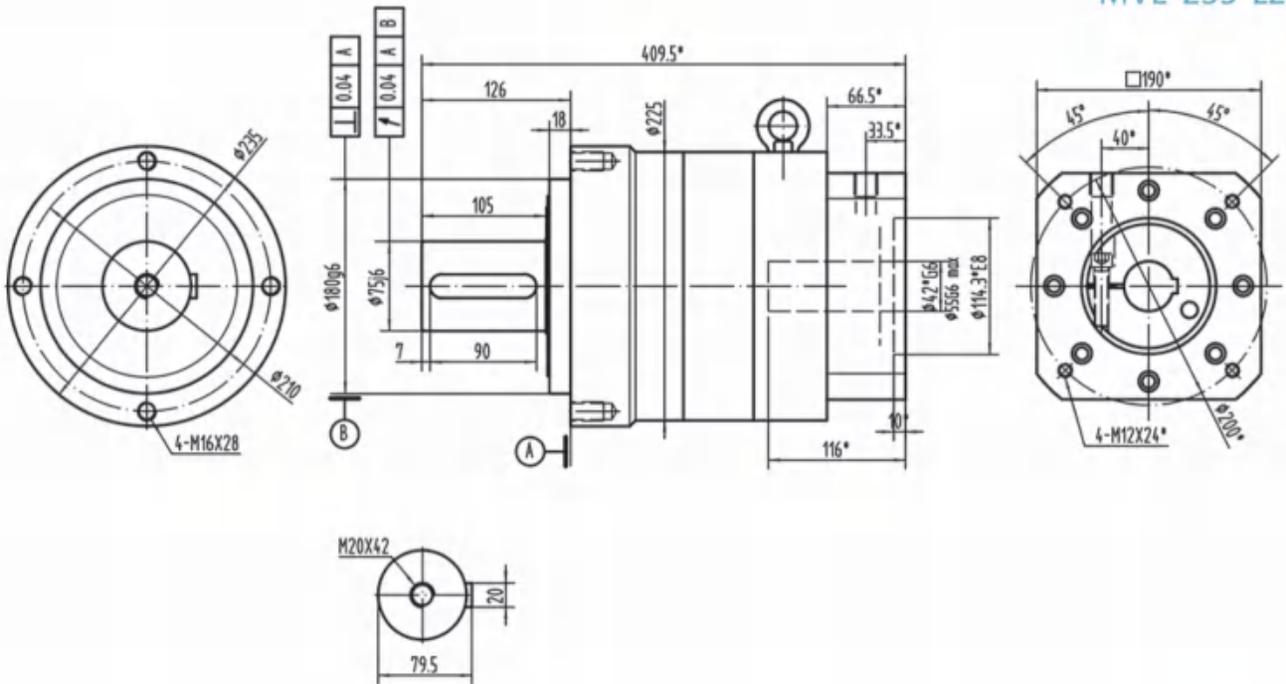


\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

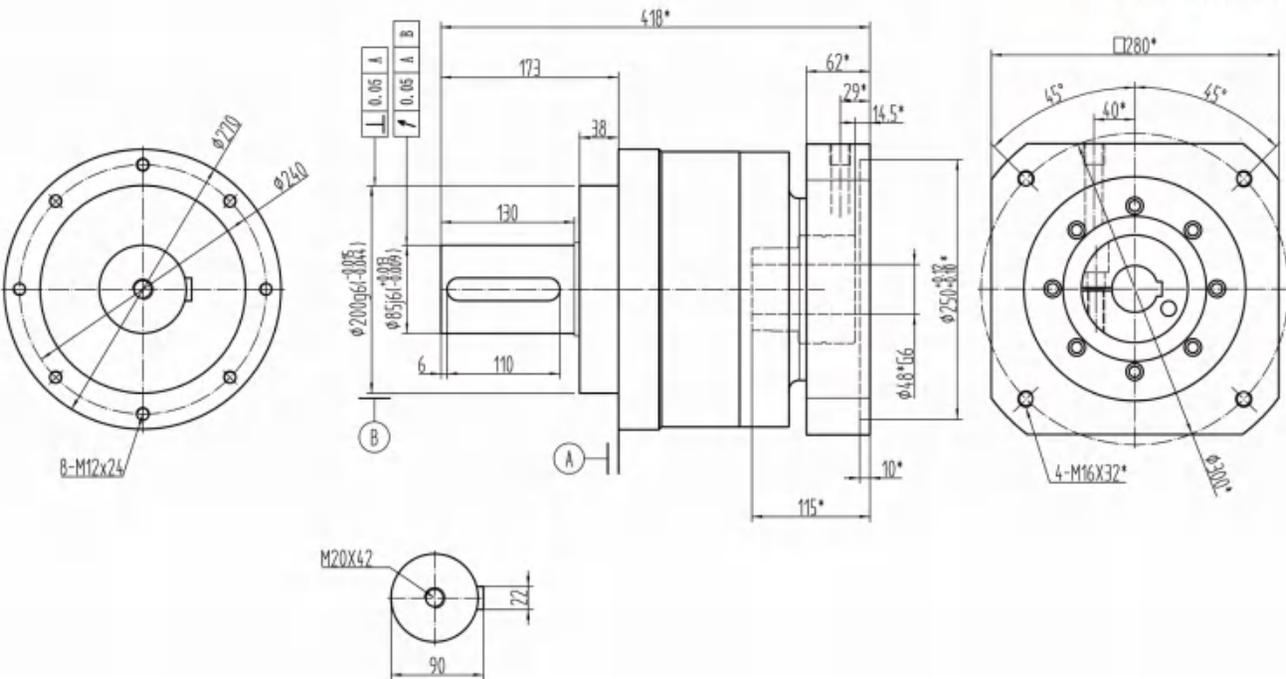


Drawing / Size

MVE-235-L2



MVE-270-L1

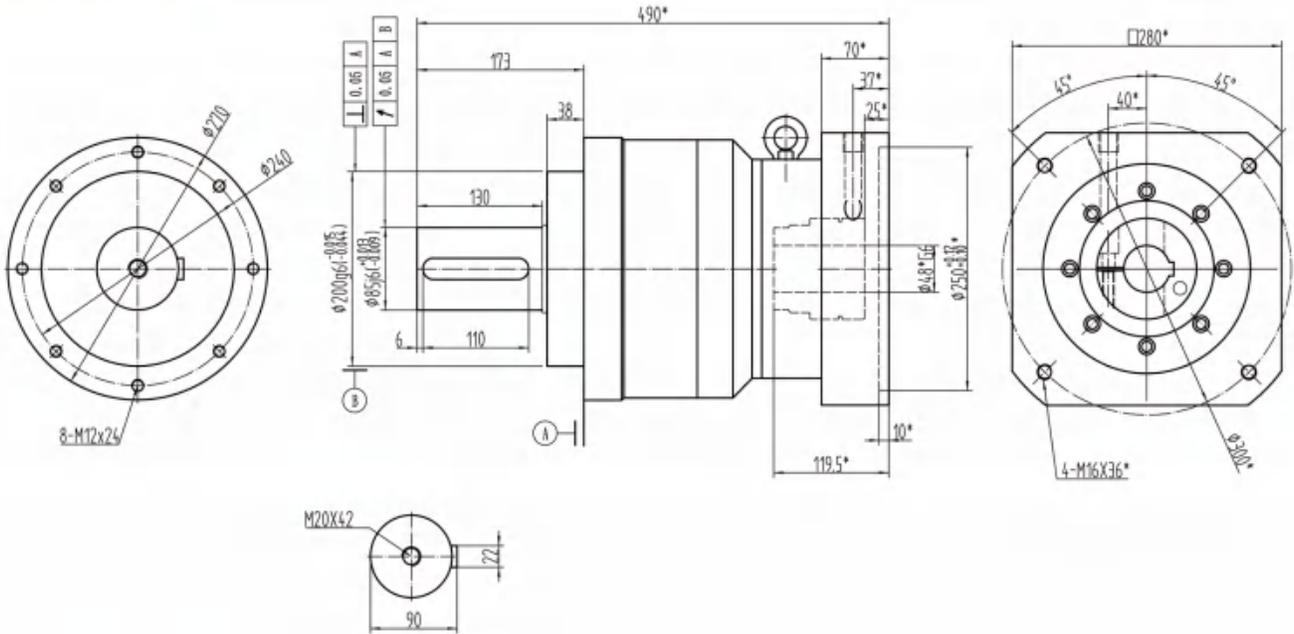


\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

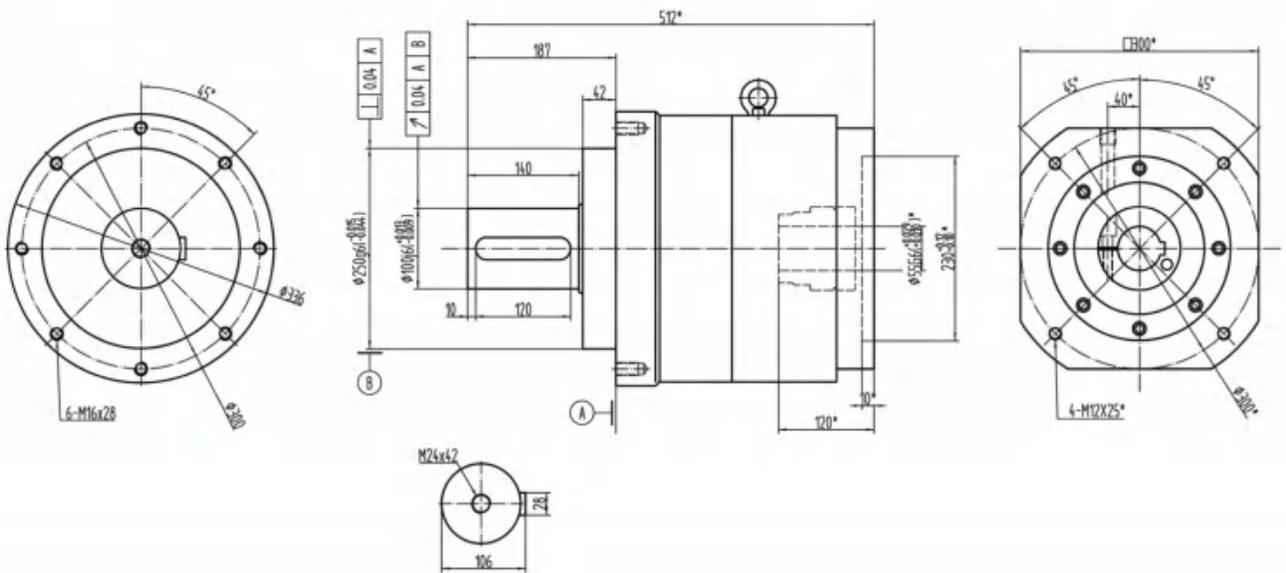
# Drawing / Size

## MVE-270-L2

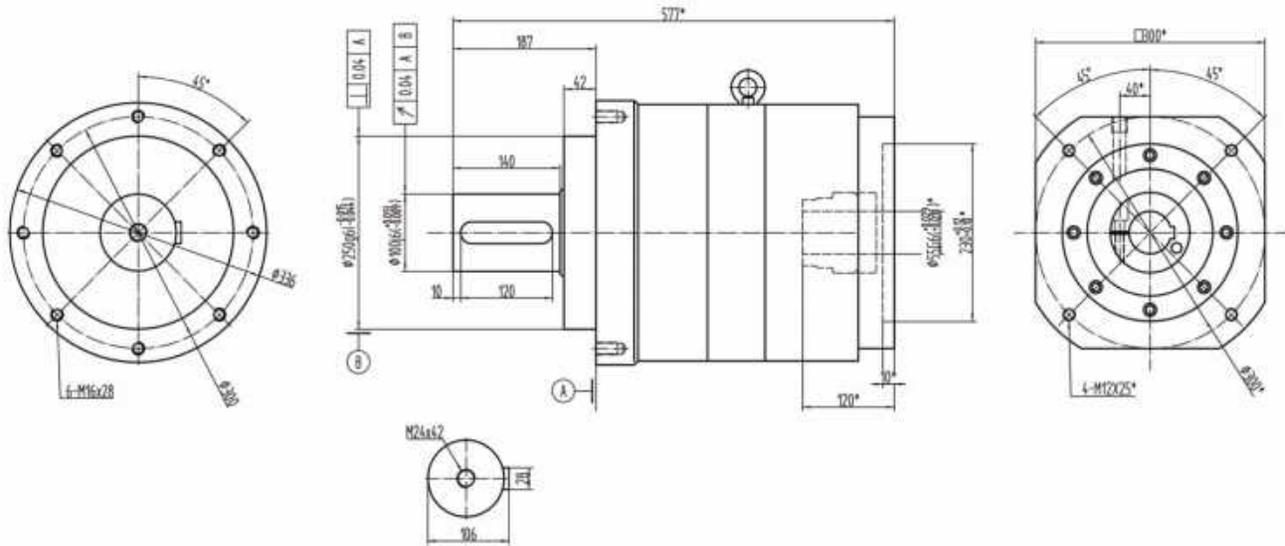
MVE



## MVE-330-L1



\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！



| MVE-040    |             |                 |                   |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |   |    |   |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|---|----|---|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Nst</sub> | n <sub>2N</sub> | n <sub>1Max</sub> | J <sub>1</sub> | C <sub>21</sub> | F <sub>210Max</sub> | F <sub>210Min</sub> | J <sub>2</sub>    | η   | L <sub>1</sub> | T      | Lub                         | PC   | MP          | dB  |   |    |   |     |
| Unit       |             | Nm              | Nm                | rpm             | rpm               | arcmin         | Nm/arcmin       | N                   | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |   |    |   |     |
| I<br>STAGE | 3           | 14              | 2×T <sub>2N</sub> | 4000            | 8000              | ≤3             | 3               | 700                 | 610                 | 0.03              | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤63 |   |    |   |     |
|            | 4           | 14              |                   |                 |                   |                | 3               |                     |                     |                   |     |                |        |                             |      |             |     |   |    |   |     |
|            | 5           | 20              |                   |                 |                   |                | 3               |                     |                     |                   |     |                |        |                             |      |             |     |   |    |   |     |
|            | 6           | 20              |                   |                 |                   |                | 3               |                     |                     |                   |     |                |        |                             |      |             |     |   |    |   |     |
|            | 7           | 20              |                   |                 |                   |                | 2.2             |                     |                     |                   |     |                |        |                             |      |             |     |   |    |   |     |
|            | 8           | 20              |                   |                 |                   |                | 3               |                     |                     |                   |     |                |        |                             |      |             |     |   |    |   |     |
|            | 9           | 14              |                   |                 |                   |                | 3               |                     |                     |                   |     |                |        |                             |      |             |     |   |    |   |     |
|            | 10          | 14              |                   |                 |                   |                | 2.2             |                     |                     |                   |     |                |        |                             |      |             |     |   |    |   |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                | 14              |                     |                     |                   |     |                |        |                             |      |             |     | 3 | ≤5 | 3 | ≥90 |
|            |             | 20              |                   |                 |                   |                | 14              |                     |                     |                   |     |                |        |                             |      |             |     | 3 |    |   |     |
| 35         |             | 20              | 3                 |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |   |    |   |     |
| 40         |             | 20              | 3                 |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |   |    |   |     |
| 50         |             | 20              | 3                 |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |   |    |   |     |
| 80         |             | 20              | 3                 |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |   |    |   |     |
| 100        |             | 14              | 2.2               |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |   |    |   |     |

\*Dimensions based on servo-motor, please contact us for custom made order.  
 注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Performance table

MVE

| MVE-060    |             |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|------|------|----|---|------|------|------|-----|---------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>i</sub> | C <sub>2i</sub> | F <sub>20Max</sub> | F <sub>20Min</sub> | J <sub>i</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
| I<br>STAGE | 3           | 40              | 2×T <sub>2N</sub> | 3000            | 6000              | ≤3             | 8               | 1500               | 1050               | 0.16              | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤63 |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 4           | 45              |                   |                 |                   |                | 8               |                    |                    | 0.14              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 5           | 60              |                   |                 |                   |                | 8               |                    |                    | 0.13              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 6           | 55              |                   |                 |                   |                | 8               |                    |                    | 0.13              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 7           | 55              |                   |                 |                   |                | 8               |                    |                    | 0.13              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 8           | 55              |                   |                 |                   |                | 8               |                    |                    | 0.13              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 9           | 40              |                   |                 |                   |                | 8               |                    |                    | 0.13              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 10          | 40              |                   |                 |                   |                | 8               |                    |                    | 0.13              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                | 40              |                    |                    | 2×T <sub>2N</sub> |     |                |        |                             |      |             |     | 3000 | 6000 | ≤5 | 8 | 1500 | 1050 | 0.13 | ≥90 | > 20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤63 |
|            |             | 20              |                   |                 |                   |                | 45              |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    | 8 |      |      | 0.13 |     |         |        |                             |      |             |     |
| 35         |             | 60              | 8                 | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
| 40         |             | 55              | 8                 | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
| 50         |             | 55              | 8                 | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
| 80         |             | 55              | 8                 | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
| 100        |             | 40              | 8                 | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |

| MVE-090    |             |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|------|------|----|----|------|------|------|-----|---------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>i</sub> | C <sub>2i</sub> | F <sub>20Max</sub> | F <sub>20Min</sub> | J <sub>i</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| I<br>STAGE | 3           | 100             | 2×T <sub>2N</sub> | 3000            | 6000              | ≤3             | 20              | 3200               | 2300               | 0.61              | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤67 |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 4           | 110             |                   |                 |                   |                | 20              |                    |                    | 0.48              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 5           | 150             |                   |                 |                   |                | 20              |                    |                    | 0.47              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 6           | 150             |                   |                 |                   |                | 20              |                    |                    | 0.47              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 7           | 150             |                   |                 |                   |                | 20              |                    |                    | 0.45              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 8           | 140             |                   |                 |                   |                | 20              |                    |                    | 0.45              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 9           | 100             |                   |                 |                   |                | 20              |                    |                    | 0.42              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 10          | 100             |                   |                 |                   |                | 20              |                    |                    | 0.4               |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                | 100             |                    |                    | 2×T <sub>2N</sub> |     |                |        |                             |      |             |     | 3000 | 6000 | ≤5 | 20 | 3200 | 2300 | 0.13 | ≥90 | > 20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤67 |
|            |             | 20              |                   |                 |                   |                | 110             |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    | 20 |      |      | 0.13 |     |         |        |                             |      |             |     |
| 35         |             | 150             | 20                | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 40         |             | 150             | 20                | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 50         |             | 150             | 20                | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 80         |             | 140             | 20                | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 100        |             | 100             | 20                | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |

## Performance table

MVE

| MVE-120    |             |                 |                   |                 |                   |                |                |                     |                   |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|----------------|---------------------|-------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|-------------------|------|------|----|----|------|------|------|-----|--------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Net</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>i</sub> | C <sub>2</sub> | F <sub>200Max</sub> | F <sub>2Max</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | mm/worm        | N                   | N                 | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| I<br>STAGE | 3           | 240             | 2×T <sub>2N</sub> | 3000            | 6000              | ≤3             | 41             | 6000                | 4100              | 3.25              | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤70 |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 4           | 320             |                   |                 |                   |                |                |                     |                   | 2.74              |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 5           | 360             |                   |                 |                   |                |                |                     |                   | 2.71              |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 6           | 350             |                   |                 |                   |                |                |                     |                   | 2.6               |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 7           | 360             |                   |                 |                   |                |                |                     |                   | 2.6               |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 8           | 360             |                   |                 |                   |                |                |                     |                   | 2.6               |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 9           | 240             |                   |                 |                   |                |                |                     |                   | 2.6               |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 10          | 240             |                   |                 |                   |                |                |                     |                   | 2.6               |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                |                |                     |                   | 240               |     |                |        |                             |      |             |     | 2×T <sub>2N</sub> | 3000 | 6000 | ≤5 | 41 | 6000 | 4100 | 0.45 | ≥90 | >20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤70 |
|            |             | 20              |                   |                 |                   |                |                |                     |                   | 320               |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      | 0.45 |     |        |        |                             |      |             |     |
| 35         |             | 360             | 0.45              |                 |                   |                |                |                     |                   |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| 40         |             | 360             | 0.45              |                 |                   |                |                |                     |                   |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| 50         |             | 360             | 0.4               |                 |                   |                |                |                     |                   |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| 80         |             | 360             | 0.4               |                 |                   |                |                |                     |                   |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| 100        |             | 240             | 0.4               |                 |                   |                |                |                     |                   |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |

| MVE-155    |             |                 |                   |                 |                   |                |                |                     |                   |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|----------------|---------------------|-------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|-------------------|------|------|----|----|------|------|------|-----|--------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Net</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>i</sub> | C <sub>2</sub> | F <sub>200Max</sub> | F <sub>2Max</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | mm/worm        | N                   | N                 | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| I<br>STAGE | 3           | 350             | 2×T <sub>2N</sub> | 3000            | 6000              | ≤3             | 50             | 9000                | 8300              | 9.21              | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤72 |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 4           | 550             |                   |                 |                   |                |                |                     |                   | 7.54              |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 5           | 600             |                   |                 |                   |                |                |                     |                   | 7.42              |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 6           | 600             |                   |                 |                   |                |                |                     |                   | 7.42              |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 7           | 600             |                   |                 |                   |                |                |                     |                   | 7.14              |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 8           | 550             |                   |                 |                   |                |                |                     |                   | 7.14              |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 9           | 380             |                   |                 |                   |                |                |                     |                   | 7.08              |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 10          | 380             |                   |                 |                   |                |                |                     |                   | 7.03              |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                |                |                     |                   | 460               |     |                |        |                             |      |             |     | 2×T <sub>2N</sub> | 3000 | 6000 | ≤5 | 50 | 9000 | 8300 | 2.63 | ≥90 | >20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤72 |
|            |             | 20              |                   |                 |                   |                |                |                     |                   | 650               |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      | 2.63 |     |        |        |                             |      |             |     |
| 35         |             | 700             | 2.43              |                 |                   |                |                |                     |                   |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| 40         |             | 700             | 2.43              |                 |                   |                |                |                     |                   |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| 50         |             | 700             | 2.39              |                 |                   |                |                |                     |                   |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| 80         |             | 700             | 2.39              |                 |                   |                |                |                     |                   |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| 100        |             | 460             | 2.39              |                 |                   |                |                |                     |                   |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |

# Performance table

MVE

| MVE-205    |             |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |     |       |       |     |     |         |        |                             |      |             |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|------|------|----|-----|-------|-------|-----|-----|---------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Hot</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>21</sub> | F <sub>21Max</sub> | F <sub>22Max</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |      |      |    |     |       |       |     |     |         |        |                             |      |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |      |      |    |     |       |       |     |     |         |        |                             |      |             |     |
| I<br>STAGE | 3           | 600             | 2×T <sub>2N</sub> | 2000            | 4000              | ≤3             | 145             | 14500              | 13500              | 28.98             | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤75 |      |      |    |     |       |       |     |     |         |        |                             |      |             |     |
|            | 4           | 1000            |                   |                 |                   |                | 145             |                    |                    | 23.67             |     |                |        |                             |      |             |     |      |      |    |     |       |       |     |     |         |        |                             |      |             |     |
|            | 5           | 1000            |                   |                 |                   |                | 145             |                    |                    | 23.29             |     |                |        |                             |      |             |     |      |      |    |     |       |       |     |     |         |        |                             |      |             |     |
|            | 6           | 1000            |                   |                 |                   |                | 145             |                    |                    | 22.29             |     |                |        |                             |      |             |     |      |      |    |     |       |       |     |     |         |        |                             |      |             |     |
|            | 7           | 1000            |                   |                 |                   |                | 145             |                    |                    | 22.48             |     |                |        |                             |      |             |     |      |      |    |     |       |       |     |     |         |        |                             |      |             |     |
|            | 8           | 1000            |                   |                 |                   |                | 145             |                    |                    | 22.48             |     |                |        |                             |      |             |     |      |      |    |     |       |       |     |     |         |        |                             |      |             |     |
|            | 9           | 650             |                   |                 |                   |                | 145             |                    |                    | 22.40             |     |                |        |                             |      |             |     |      |      |    |     |       |       |     |     |         |        |                             |      |             |     |
|            | 10          | 650             |                   |                 |                   |                | 145             |                    |                    | 22.51             |     |                |        |                             |      |             |     |      |      |    |     |       |       |     |     |         |        |                             |      |             |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                | 980             |                    |                    | 2×T <sub>2N</sub> |     |                |        |                             |      |             |     | 2000 | 4000 | ≤5 | 145 | 14500 | 13500 | 7.3 | ≥90 | > 20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤75 |
|            |             | 20              |                   |                 |                   |                | 1350            |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    | 145 |       |       | 7.3 |     |         |        |                             |      |             |     |
| 35         |             | 1400            | 145               | 7.1             |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |     |       |       |     |     |         |        |                             |      |             |     |
| 40         |             | 1350            | 145               | 6.92            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |     |       |       |     |     |         |        |                             |      |             |     |
| 50         |             | 1400            | 145               | 6.92            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |     |       |       |     |     |         |        |                             |      |             |     |
| 80         |             | 1400            | 145               | 6.72            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |     |       |       |     |     |         |        |                             |      |             |     |
| 100        |             | 980             | 145               | 6.72            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |     |       |       |     |     |         |        |                             |      |             |     |

| MVE-235    |             |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |     |       |       |       |     |         |        |                             |      |             |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|------|------|----|-----|-------|-------|-------|-----|---------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Hot</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>21</sub> | F <sub>21Max</sub> | F <sub>22Max</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |      |      |    |     |       |       |       |     |         |        |                             |      |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |      |      |    |     |       |       |       |     |         |        |                             |      |             |     |
| I<br>STAGE | 3           | 1100            | 2×T <sub>2N</sub> | 1500            | 3000              | ≤3             | 225             | 20500              | 19000              | 69.61             | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤77 |      |      |    |     |       |       |       |     |         |        |                             |      |             |     |
|            | 4           | 1600            |                   |                 |                   |                | 225             |                    |                    | 54.37             |     |                |        |                             |      |             |     |      |      |    |     |       |       |       |     |         |        |                             |      |             |     |
|            | 5           | 1800            |                   |                 |                   |                | 225             |                    |                    | 53.27             |     |                |        |                             |      |             |     |      |      |    |     |       |       |       |     |         |        |                             |      |             |     |
|            | 6           | 1800            |                   |                 |                   |                | 225             |                    |                    | 53.27             |     |                |        |                             |      |             |     |      |      |    |     |       |       |       |     |         |        |                             |      |             |     |
|            | 7           | 1800            |                   |                 |                   |                | 225             |                    |                    | 50.97             |     |                |        |                             |      |             |     |      |      |    |     |       |       |       |     |         |        |                             |      |             |     |
|            | 8           | 1800            |                   |                 |                   |                | 225             |                    |                    | 50.88             |     |                |        |                             |      |             |     |      |      |    |     |       |       |       |     |         |        |                             |      |             |     |
|            | 9           | 1200            |                   |                 |                   |                | 225             |                    |                    | 50.73             |     |                |        |                             |      |             |     |      |      |    |     |       |       |       |     |         |        |                             |      |             |     |
|            | 10          | 1200            |                   |                 |                   |                | 225             |                    |                    | 50.56             |     |                |        |                             |      |             |     |      |      |    |     |       |       |       |     |         |        |                             |      |             |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                | 1300            |                    |                    | 2×T <sub>2N</sub> |     |                |        |                             |      |             |     | 1500 | 3000 | ≤5 | 225 | 20500 | 19000 | 22.79 | ≥90 | > 20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤77 |
|            |             | 20              |                   |                 |                   |                | 1800            |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    | 225 |       |       | 22.79 |     |         |        |                             |      |             |     |
| 35         |             | 1900            | 225               | 22.59           |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |     |       |       |       |     |         |        |                             |      |             |     |
| 40         |             | 1900            | 225               | 21.83           |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |     |       |       |       |     |         |        |                             |      |             |     |
| 50         |             | 1900            | 225               | 21.83           |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |     |       |       |       |     |         |        |                             |      |             |     |
| 80         |             | 1900            | 225               | 21.70           |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |     |       |       |       |     |         |        |                             |      |             |     |
| 100        |             | 1300            | 225               | 21.60           |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |     |       |       |       |     |         |        |                             |      |             |     |

# Performance table

MVE

| MVE-270     |     |                 |                   |                 |                   |                |                 |                     |                    |                   |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>t</sub> | C <sub>2t</sub> | F <sub>220Max</sub> | F <sub>22Max</sub> | J <sub>t</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | mm/arcmin       | N                   | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3   | 3000            | 2xT <sub>2N</sub> | 1000            | 2500              | ≤3             | 540             | 29000               | 26500              | 180               | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤77 |
|             | 4   | 3000            |                   |                 |                   |                |                 |                     |                    | 180               |     |                |        |                             |      |             |     |
|             | 5   | 3150            |                   |                 |                   |                |                 |                     |                    | 170               |     |                |        |                             |      |             |     |
|             | 6   | 3150            |                   |                 |                   |                |                 |                     |                    | 170               |     |                |        |                             |      |             |     |
|             | 7   | 3150            |                   |                 |                   |                |                 |                     |                    | 170               |     |                |        |                             |      |             |     |
|             | 8   | 3000            |                   |                 |                   |                |                 |                     |                    | 170               |     |                |        |                             |      |             |     |
|             | 9   | 2400            |                   |                 |                   |                |                 |                     |                    | 150               |     |                |        |                             |      |             |     |
|             | 10  | 2200            |                   |                 |                   |                |                 |                     |                    | 150               |     |                |        |                             |      |             |     |
| II<br>STAGE | 15  | 3000            | 2xT <sub>2N</sub> | 2000            | 3000              | ≤5             | 980             | 224500              | 112000             | 64                | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤75 |
|             | 20  | 3000            |                   |                 |                   |                |                 |                     |                    | 64                |     |                |        |                             |      |             |     |
|             | 25  | 3150            |                   |                 |                   |                |                 |                     |                    | 64                |     |                |        |                             |      |             |     |
|             | 50  | 3150            |                   |                 |                   |                |                 |                     |                    | 64                |     |                |        |                             |      |             |     |
|             | 80  | 3150            |                   |                 |                   |                |                 |                     |                    | 64                |     |                |        |                             |      |             |     |
|             | 100 | 2300            |                   |                 |                   |                |                 |                     |                    | 64                |     |                |        |                             |      |             |     |

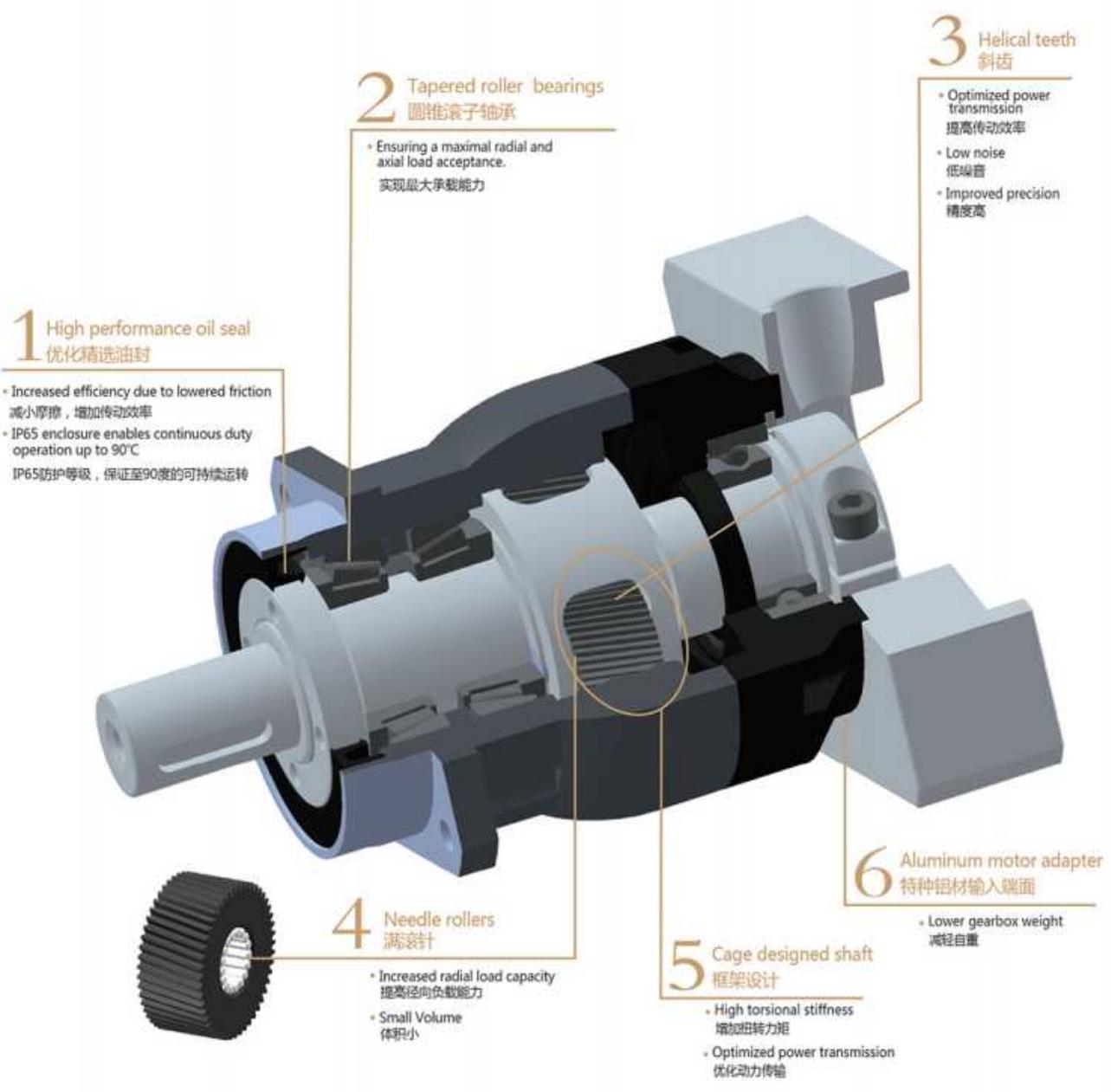
| MVE-330     |     |                 |                   |                 |                   |                |                 |                     |                    |                   |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>t</sub> | C <sub>2t</sub> | F <sub>220Max</sub> | F <sub>22Max</sub> | J <sub>t</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | mm/arcmin       | N                   | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3   | 8150            | 2xT <sub>2N</sub> | 2000            | 3000              | ≤3             | 980             | 224500              | 112000             | 252.96            | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤75 |
|             | 4   | 8730            |                   |                 |                   |                |                 |                     |                    | 230.72            |     |                |        |                             |      |             |     |
|             | 5   | 8660            |                   |                 |                   |                |                 |                     |                    | 226.05            |     |                |        |                             |      |             |     |
|             | 7   | 8520            |                   |                 |                   |                |                 |                     |                    | 216.29            |     |                |        |                             |      |             |     |
|             | 10  | 8310            |                   |                 |                   |                |                 |                     |                    | 214.55            |     |                |        |                             |      |             |     |
| II<br>STAGE | 15  | 8150            | 2xT <sub>2N</sub> | 2000            | 3000              | ≤5             | 980             | 224500              | 112000             | 185.05            | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤75 |
|             | 20  | 8730            |                   |                 |                   |                |                 |                     |                    | 185.05            |     |                |        |                             |      |             |     |
|             | 25  | 8660            |                   |                 |                   |                |                 |                     |                    | 185.05            |     |                |        |                             |      |             |     |
|             | 35  | 8520            |                   |                 |                   |                |                 |                     |                    | 183.43            |     |                |        |                             |      |             |     |
|             | 40  | 8440            |                   |                 |                   |                |                 |                     |                    | 183.43            |     |                |        |                             |      |             |     |
|             | 50  | 8660            |                   |                 |                   |                |                 |                     |                    | 183.43            |     |                |        |                             |      |             |     |
|             | 70  | 8520            |                   |                 |                   |                |                 |                     |                    | 177.26            |     |                |        |                             |      |             |     |
|             | 100 | 8310            |                   |                 |                   |                |                 |                     |                    | 175.39            |     |                |        |                             |      |             |     |

**MVD SERIES**



MVD 高端系列代表最高精度、最大扭矩和轴向/径向负载抗力。

The MVD high-end series symbolize optimum precision, maximum torque and resistance to radial & axial loads.



**1 High performance oil seal**  
优化精选油封

- Increased efficiency due to lowered friction  
减小摩擦，增加传动效率
- IP65 enclosure enables continuous duty operation up to 90°C  
IP65防护等级，保证至90度的可持续运转

**2 Tapered roller bearings**  
圆锥滚子轴承

- Ensuring a maximal radial and axial load acceptance.  
实现最大承载能力

**3 Helical teeth**  
斜齿

- Optimized power transmission  
提高传动效率
- Low noise  
低噪音
- Improved precision  
精度高

**4 Needle rollers**  
满滚针

- Increased radial load capacity  
提高径向负载能力
- Small Volume  
体积小

**5 Cage designed shaft**  
框架设计

- High torsional stiffness  
增加扭转力矩
- Optimized power transmission  
优化动力传输

**6 Aluminum motor adapter**  
特种铝材输入端面

- Lower gearbox weight  
减轻自重

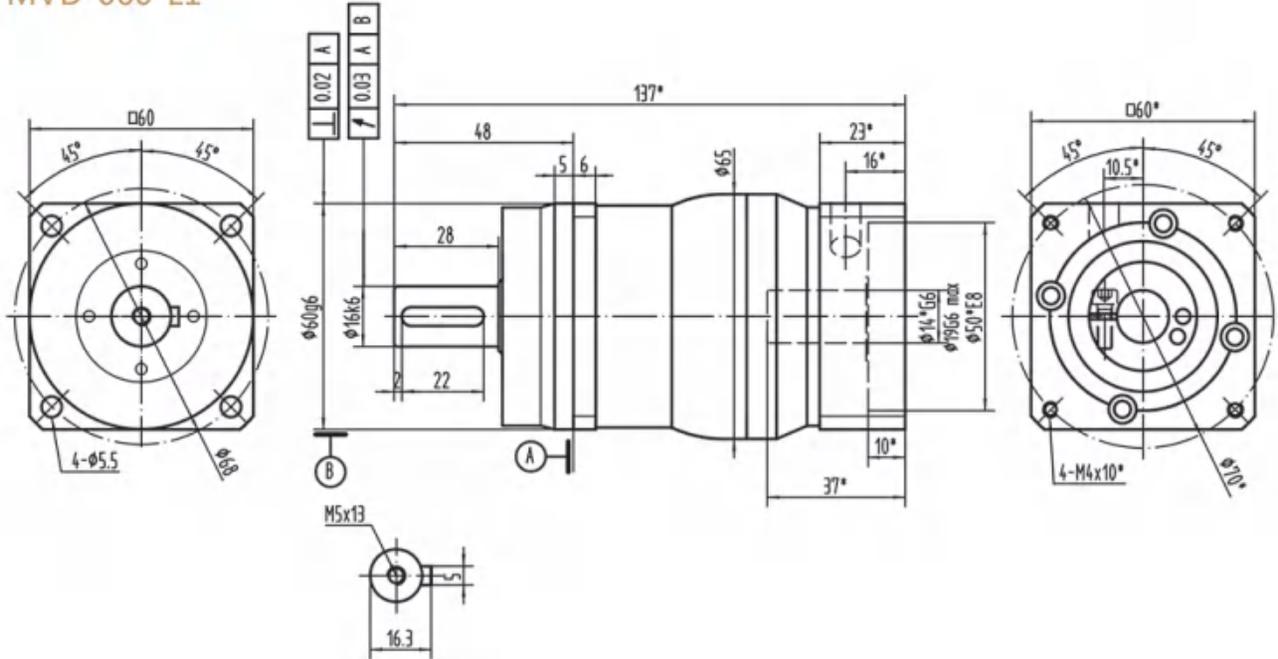
造型数据：  
Selection data:

|               |         |
|---------------|---------|
| 扭矩 ( Nm )     | 25-2550 |
| 速比            | 3-100   |
| 背隙 ( arcmin ) | 3-5     |
| 最大工作温度 ( °C ) | 90      |
| 噪音 ( dB )     | 60-77   |

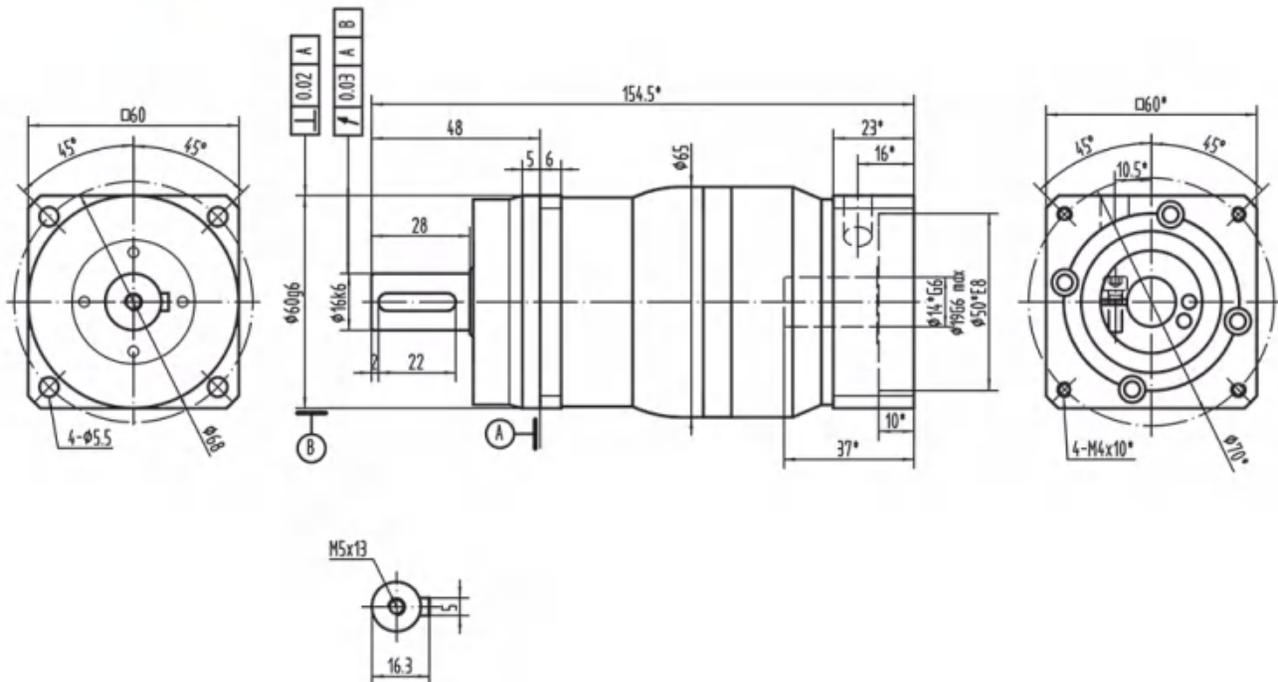
|                                |         |
|--------------------------------|---------|
| Nominal output torque ( Nm )   | 25-2550 |
| Reduction ratio                | 3-100   |
| Backlash ( arcmin )            | 3-5     |
| Max.working temperature ( °C ) | 90      |
| Noise ( dB )                   | 60-77   |

## Drawing / Size

### MVD-060-L1



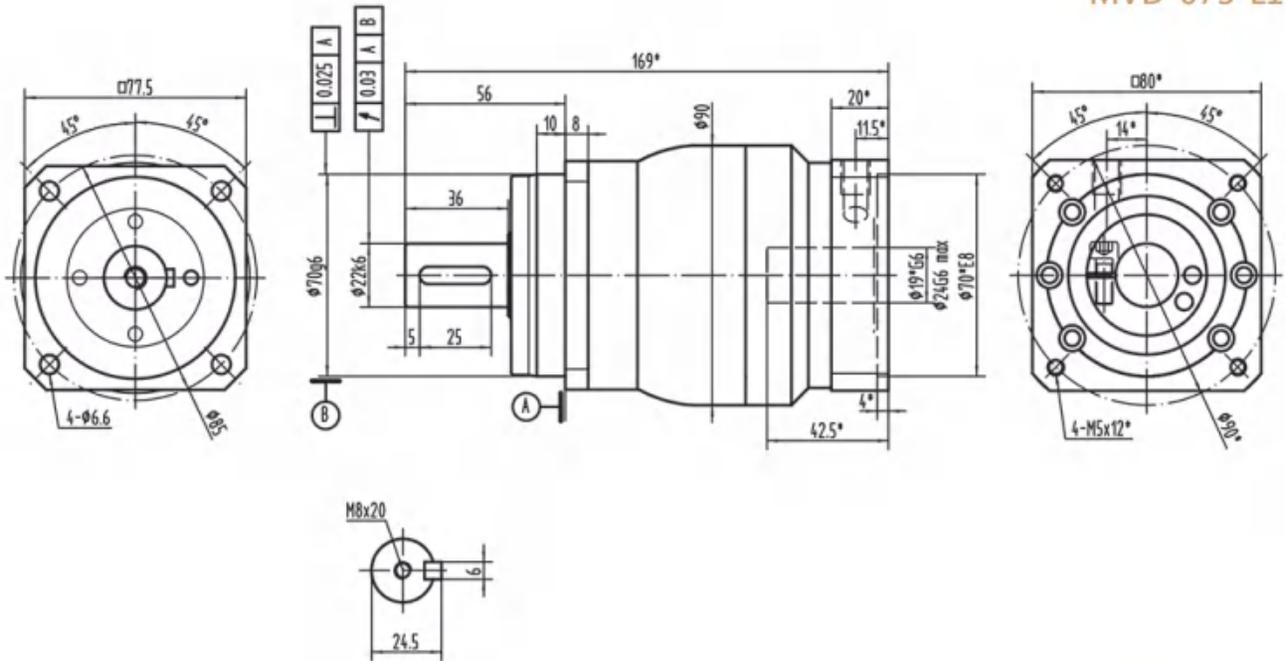
### MVD-060-L2



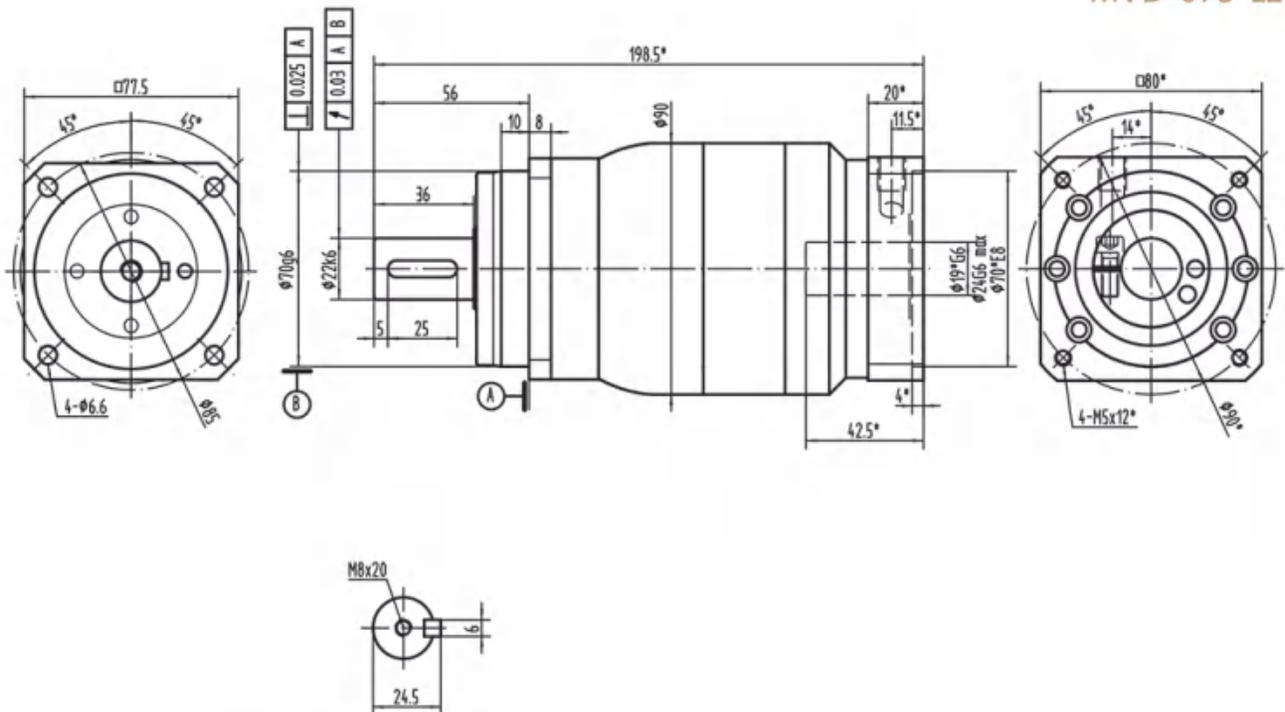
\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Drawing / Size

MVD-075-L1



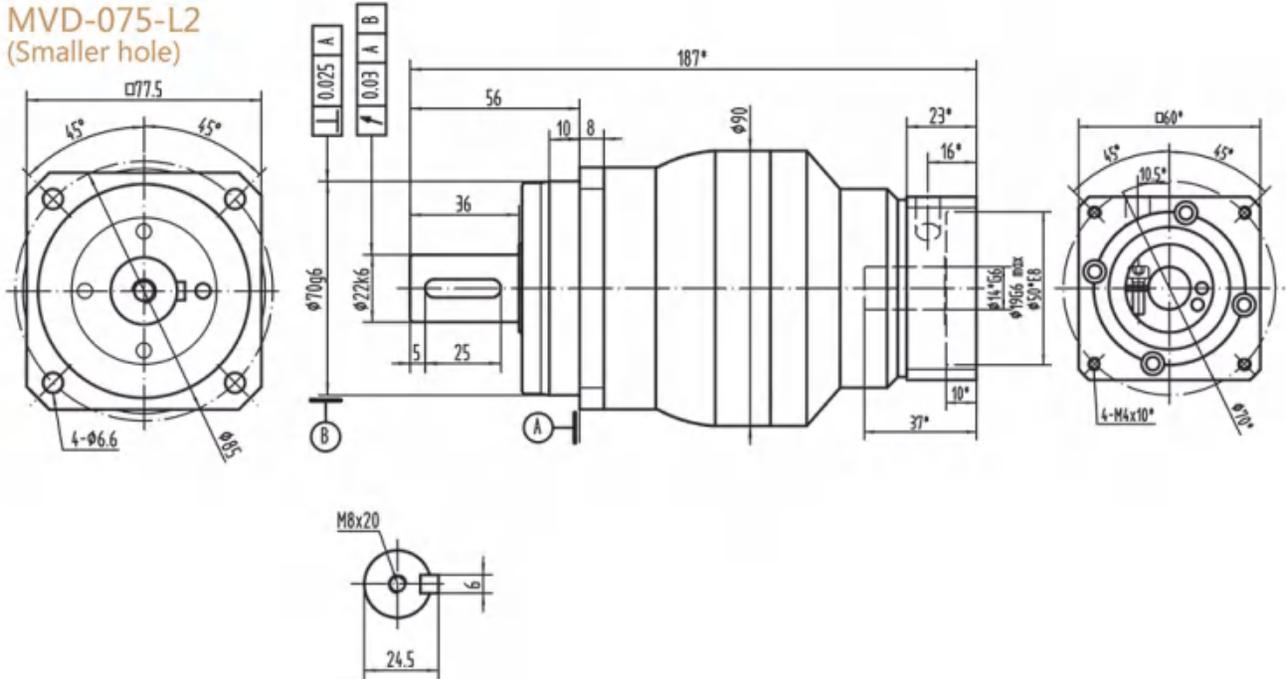
MVD-075-L2



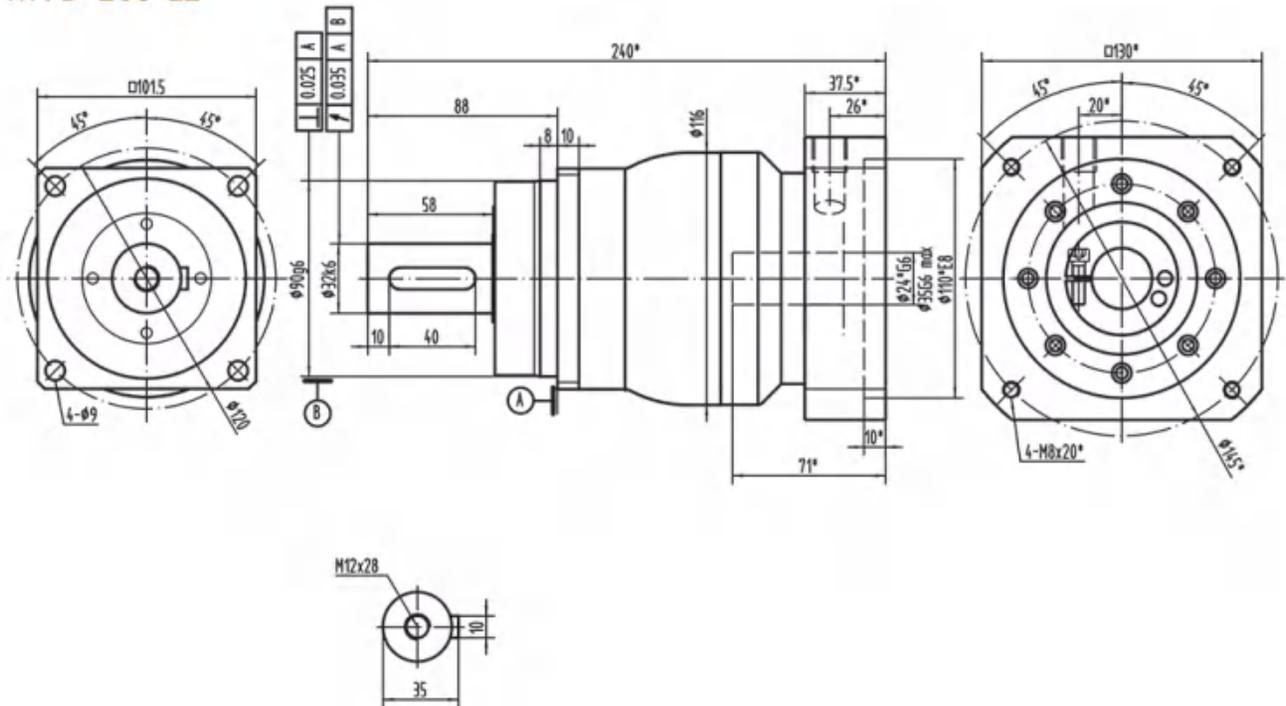
\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

## Drawing / Size

**MVD-075-L2**  
(Smaller hole)



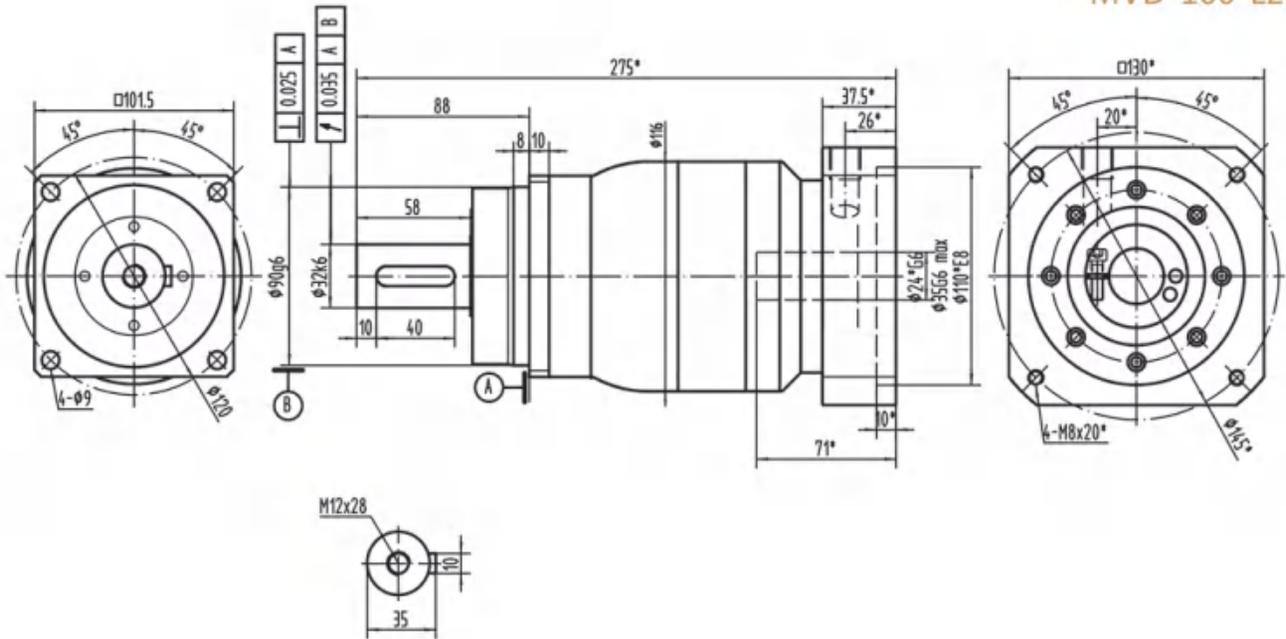
**MVD-100-L1**



\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

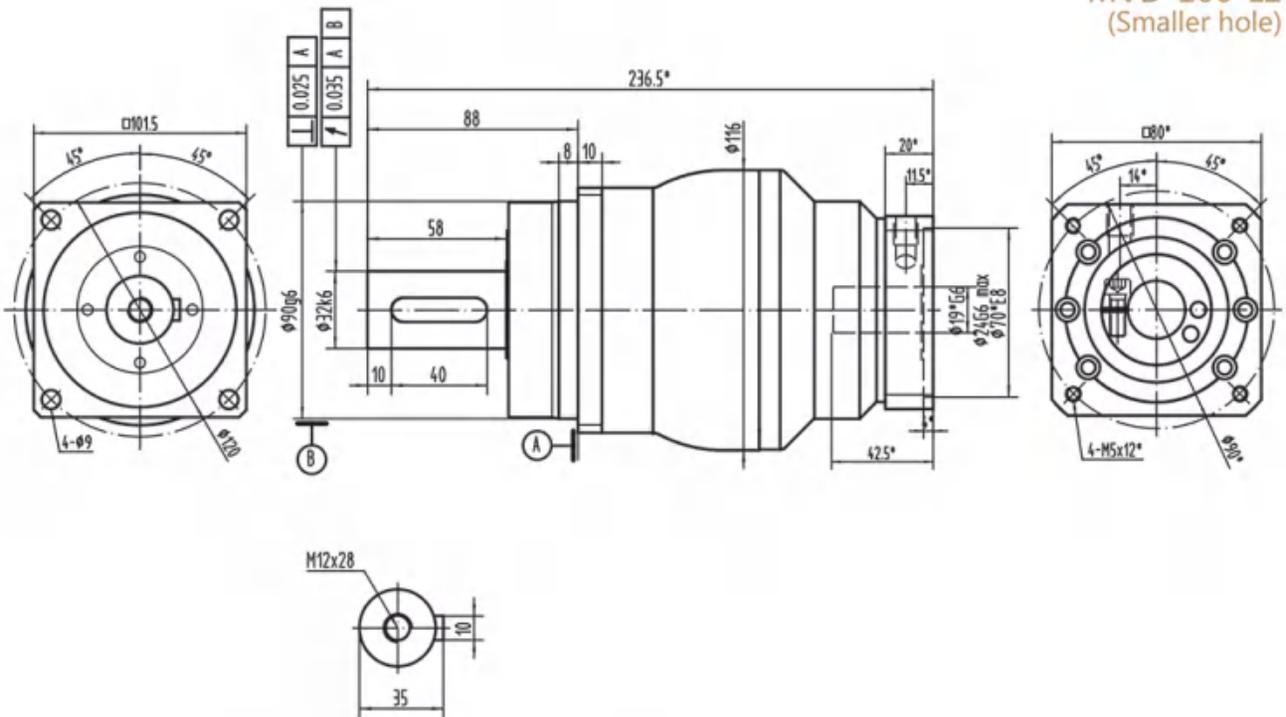
Drawing / Size

MVD-100-L2



MVD

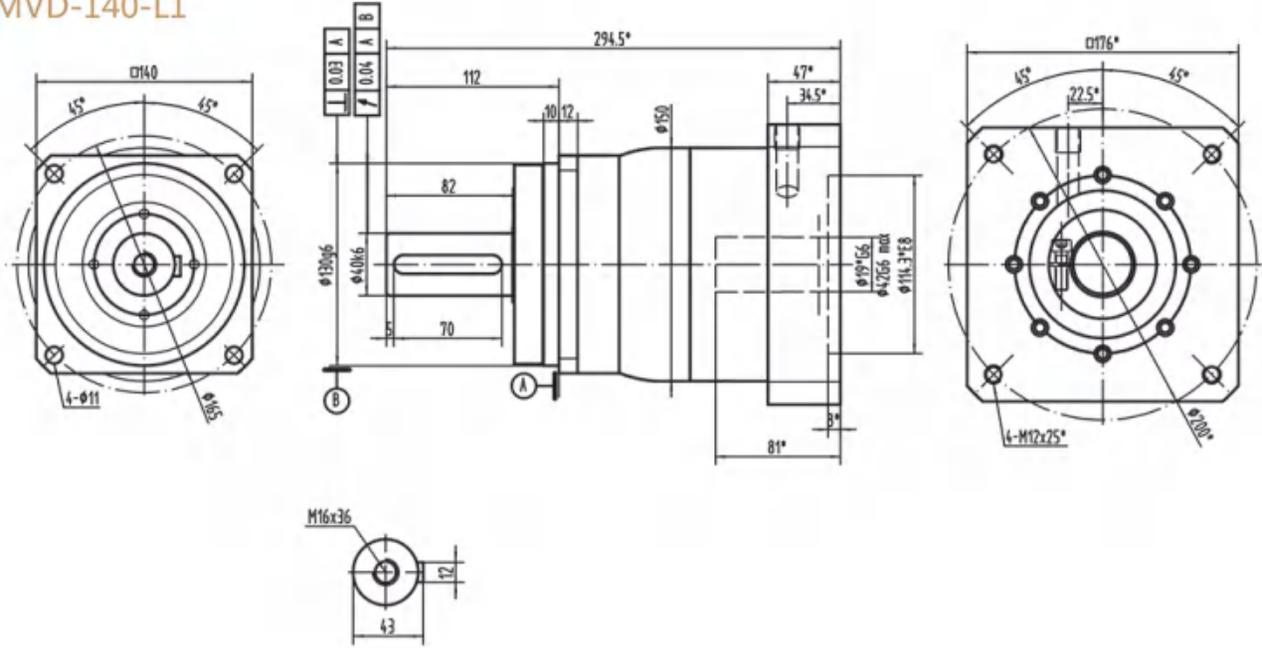
MVD-100-L2  
(Smaller hole)



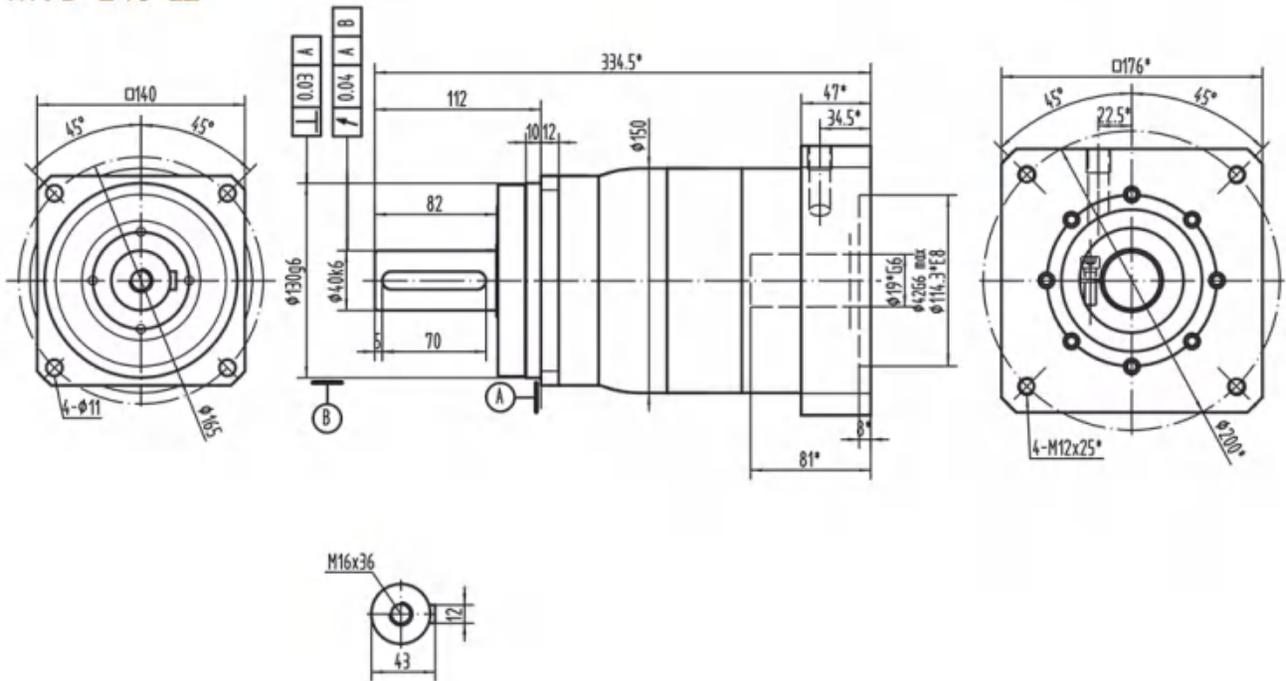
\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸: 代表可根据客户需求定制产品, 如有需要, 请联系我们!

# Drawing / Size

## MVD-140-L1



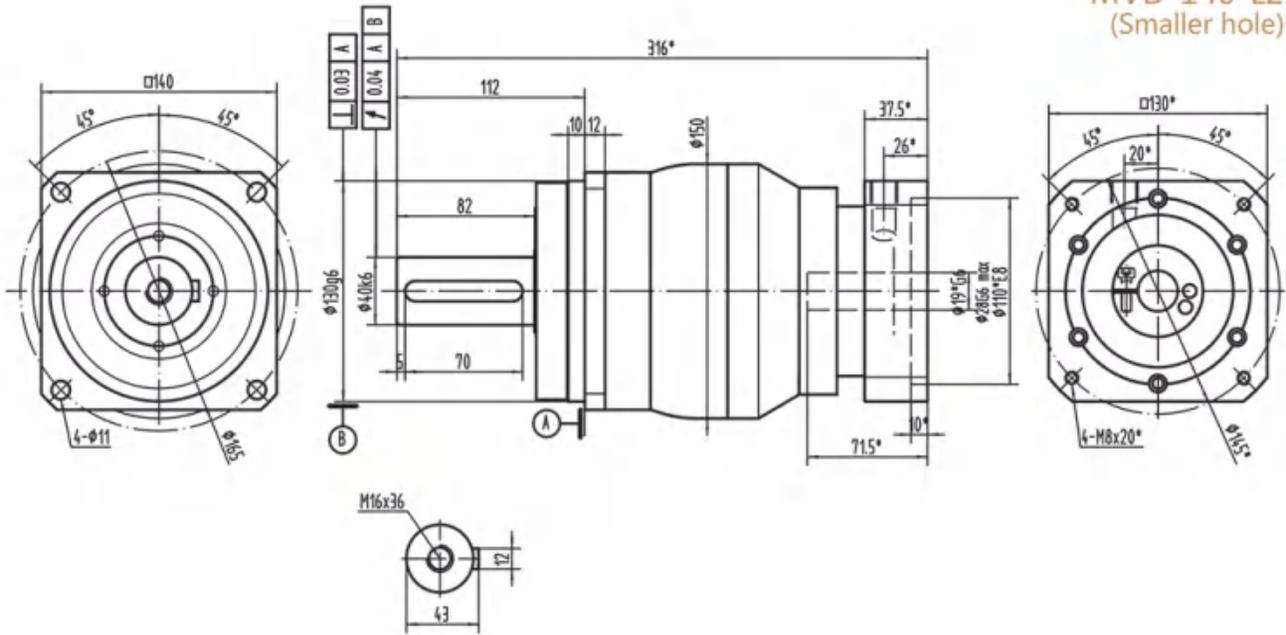
## MVD-140-L2



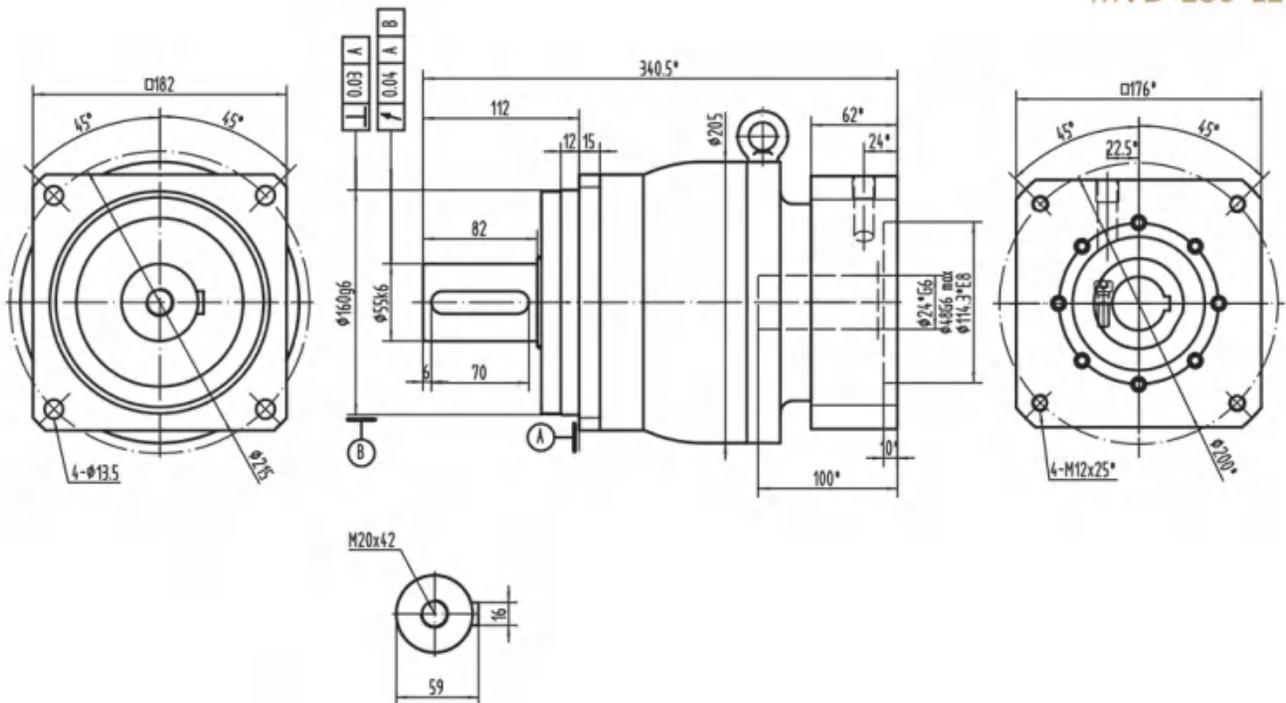
\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

## Drawing / Size

**MVD-140-L2**  
(Smaller hole)



**MVD-180-L1**

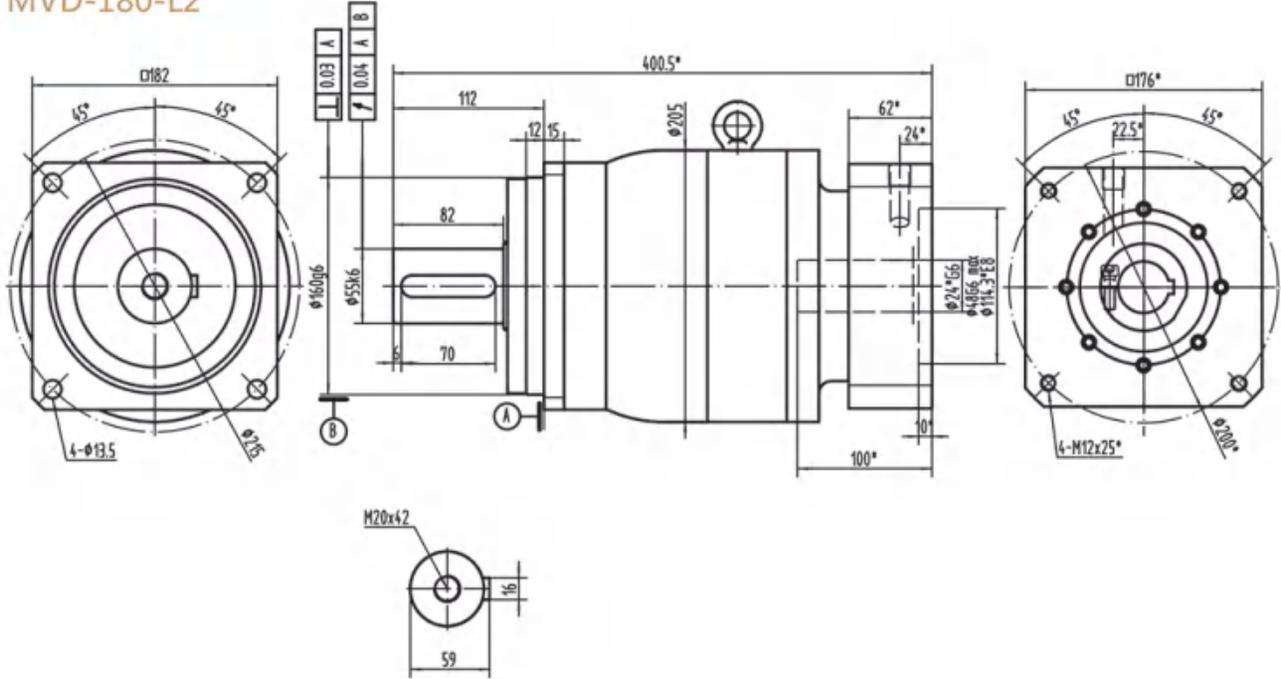


\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

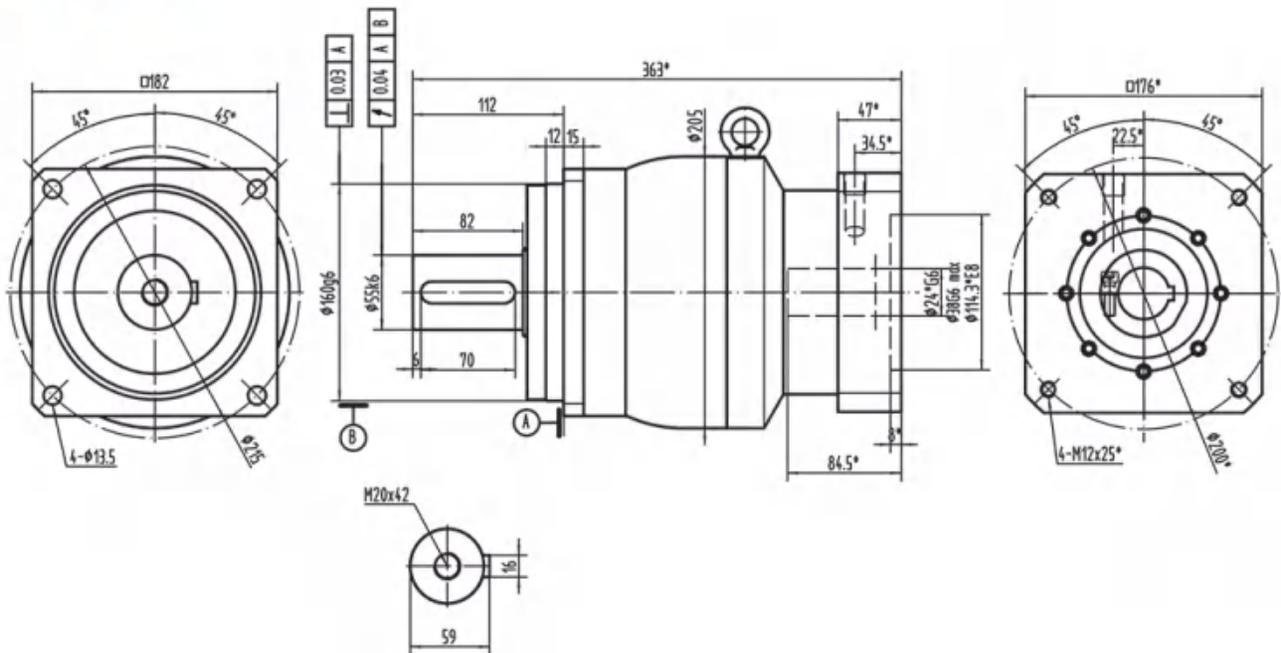
# Drawing / Size

## MVD-180-L2

MVD



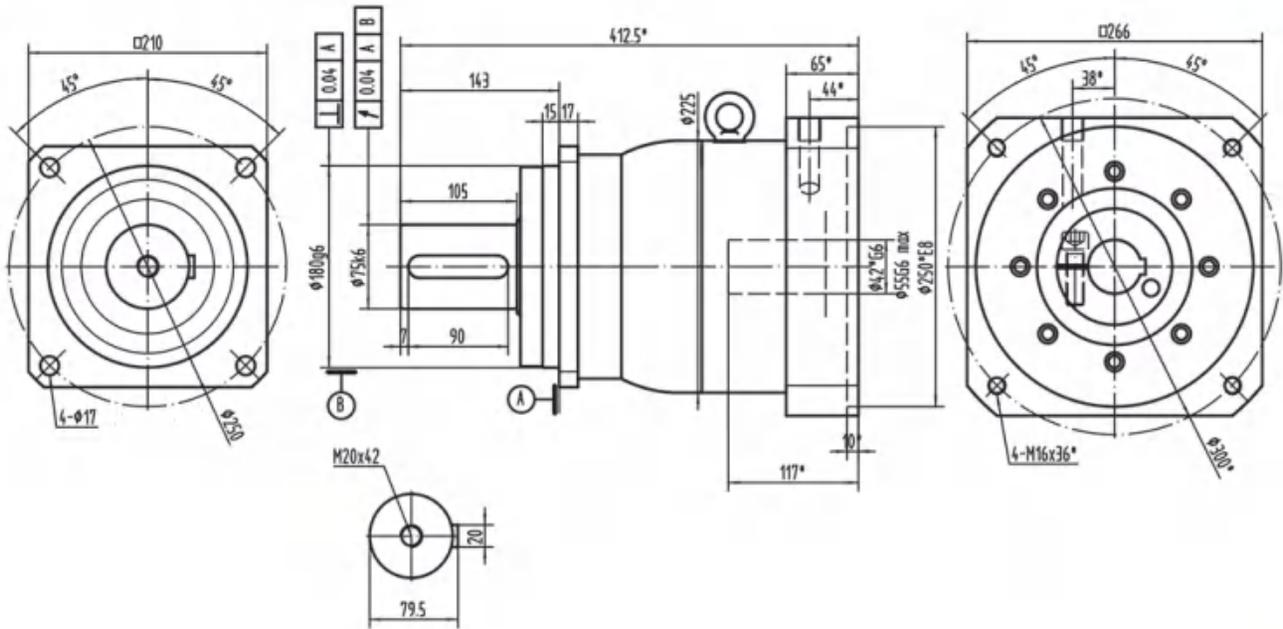
## MVD-180-L2 (Smaller hole)



\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

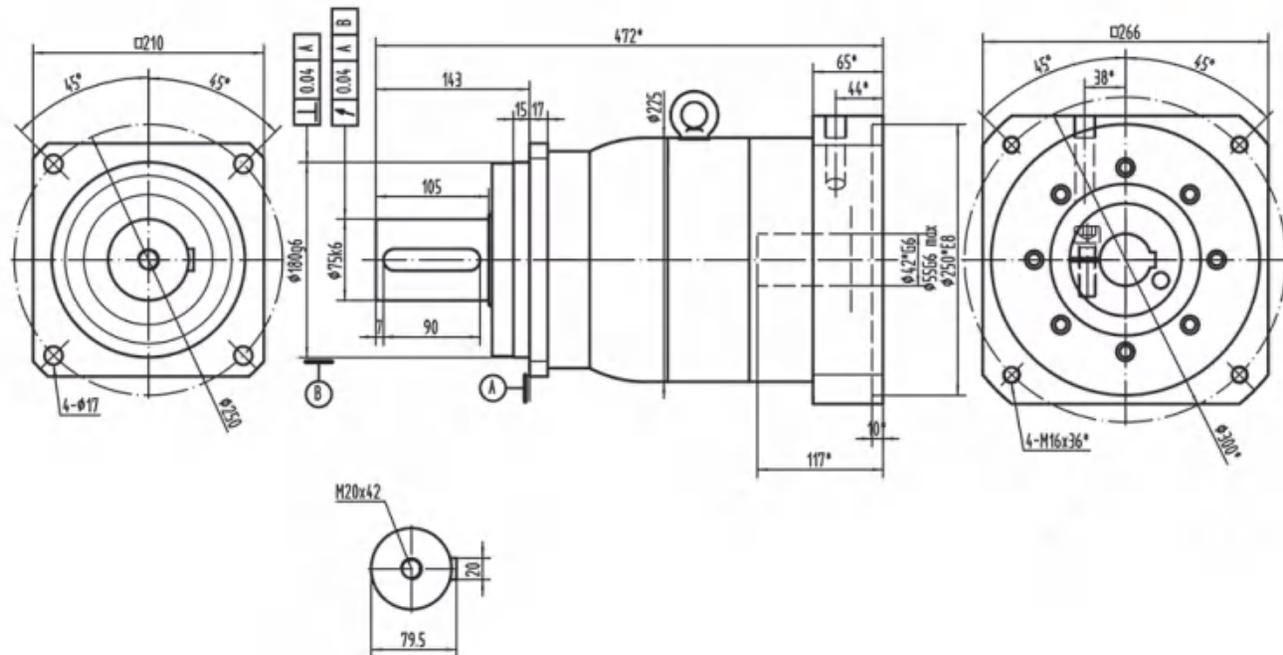
# Drawing / Size

## MVD-210-L1



MVD

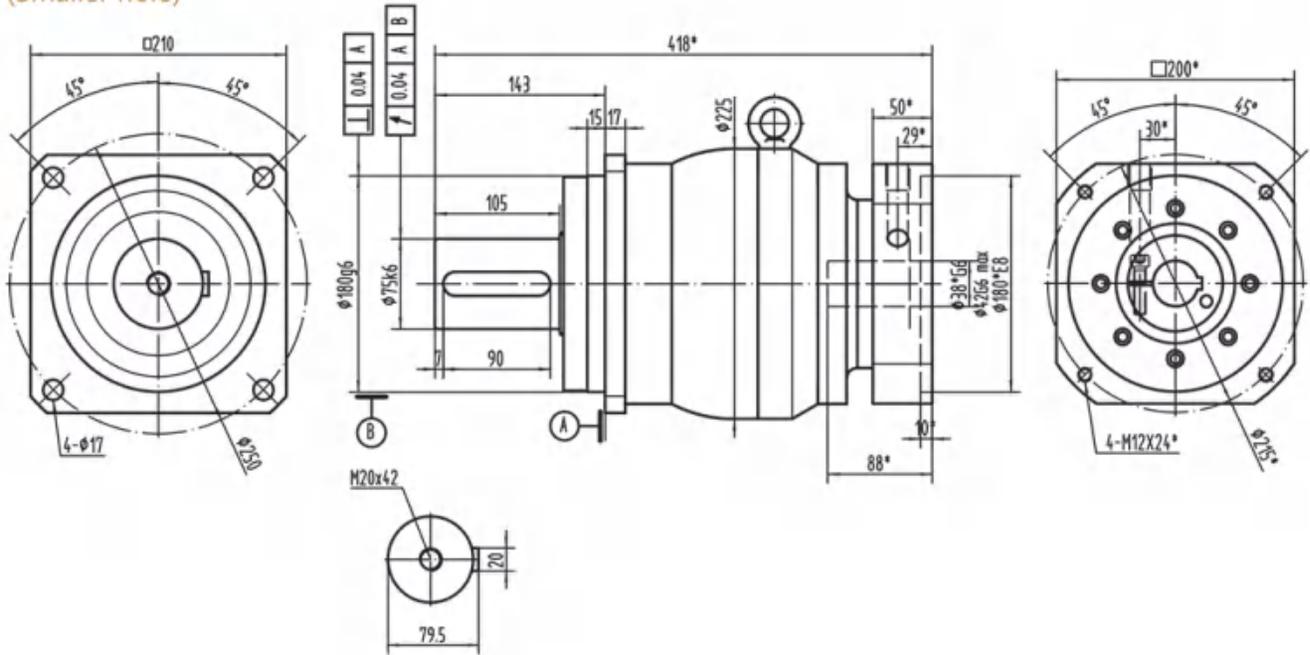
## MVD-210-L2



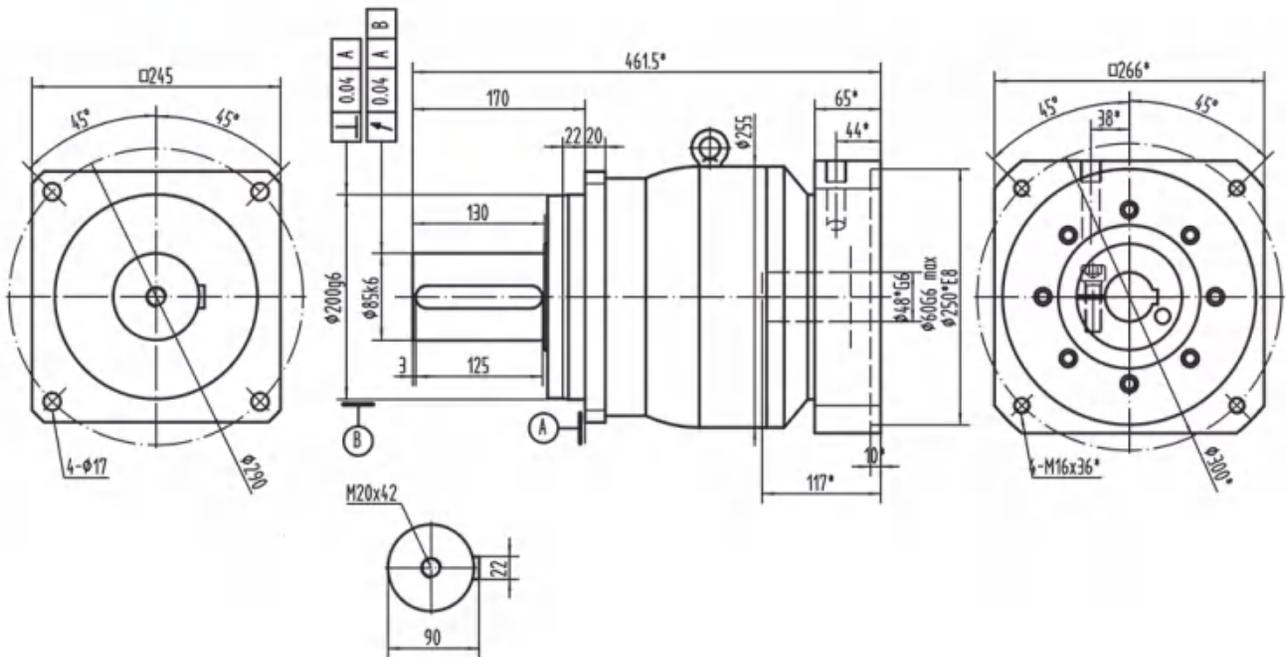
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

## Drawing / Size

### MVD-210-L2 (Smaller hole)



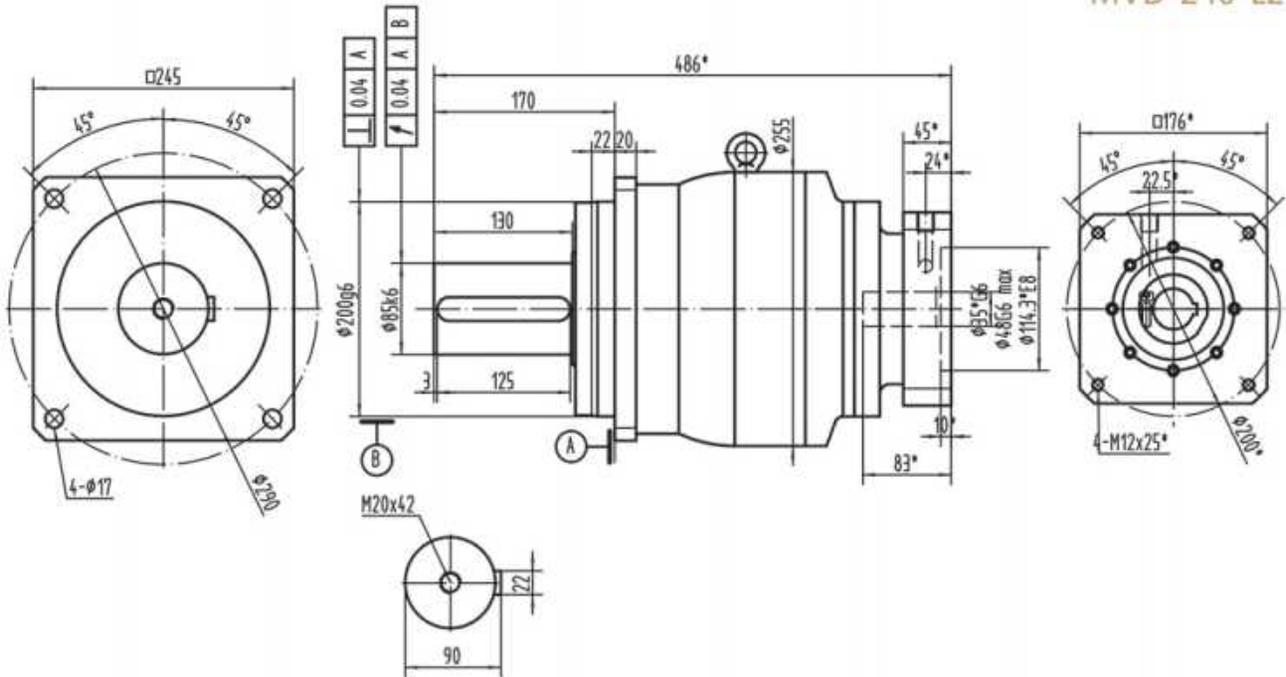
### MVD-240-L1



\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸: 代表可根据客户需求定制产品, 如有需要, 请联系我们!

# Drawing / Size

MVD-240-L2



MVD

\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Performance table

MVD

| MVD-060    |             |                 |                    |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|------------|-------------|-----------------|--------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|-------------------|------|------|----|---|------|------|------|-----|---------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Ntot</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>21</sub> | F <sub>2Ntot</sub> | F <sub>2NMax</sub> | J <sub>1</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |                   |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>     | rpm             | rpm               | arcmin         | 1/100mm         | N                  | N                  | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |                   |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
| I<br>STAGE | 3           | 25              | 2×T <sub>2N</sub>  | 3300            | 6000              | ≤3             | 6               | 3000               | 2700               | 0.40               | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤60 |                   |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 4           | 40              |                    |                 |                   |                |                 |                    |                    | 0.32               |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 5           | 40              |                    |                 |                   |                |                 |                    |                    | 0.28               |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 6           | 40              |                    |                 |                   |                |                 |                    |                    | 0.28               |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 7           | 40              |                    |                 |                   |                |                 |                    |                    | 0.25               |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 8           | 40              |                    |                 |                   |                |                 |                    |                    | 0.25               |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 9           | 25              |                    |                 |                   |                |                 |                    |                    | 0.25               |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | 10          | 25              |                    |                 |                   |                |                 |                    |                    | 0.25               |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
|            | II<br>STAGE | 15              |                    |                 |                   |                |                 |                    |                    | 34                 |     |                |        |                             |      |             |     | 2×T <sub>2N</sub> | 3300 | 6000 | ≤5 | 6 | 3000 | 2700 | 0.38 | ≥90 | > 20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤60 |
|            |             | 20              |                    |                 |                   |                |                 |                    |                    | 50                 |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      | 0.33 |     |         |        |                             |      |             |     |
| 25         |             | 50              | 0.30               |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
| 50         |             | 50              | 0.27               |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
| 80         |             | 50              | 0.26               |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |
| 100        |             | 35              | 0.25               |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |         |        |                             |      |             |     |

| MVD-075    |             |                 |                    |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|------------|-------------|-----------------|--------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|-------------------|------|------|----|----|------|------|------|-----|---------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Ntot</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>21</sub> | F <sub>2Ntot</sub> | F <sub>2NMax</sub> | J <sub>1</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |                   |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>     | rpm             | rpm               | arcmin         | 1/100mm         | N                  | N                  | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |                   |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| I<br>STAGE | 3           | 80              | 2×T <sub>2N</sub>  | 3000            | 6000              | ≤3             | 10              | 4200               | 3900               | 1.01               | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤62 |                   |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 4           | 120             |                    |                 |                   |                |                 |                    |                    | 0.78               |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 5           | 125             |                    |                 |                   |                |                 |                    |                    | 0.68               |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 6           | 125             |                    |                 |                   |                |                 |                    |                    | 0.68               |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 7           | 125             |                    |                 |                   |                |                 |                    |                    | 0.59               |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 8           | 125             |                    |                 |                   |                |                 |                    |                    | 0.59               |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 9           | 80              |                    |                 |                   |                |                 |                    |                    | 0.59               |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | 10          | 80              |                    |                 |                   |                |                 |                    |                    | 0.57               |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
|            | II<br>STAGE | 15              |                    |                 |                   |                |                 |                    |                    | 80                 |     |                |        |                             |      |             |     | 2×T <sub>2N</sub> | 3000 | 6000 | ≤5 | 10 | 4200 | 3900 | 0.95 | ≥90 | > 20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤62 |
|            |             | 20              |                    |                 |                   |                |                 |                    |                    | 125                |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      | 0.82 |     |         |        |                             |      |             |     |
| 25         |             | 125             | 0.76               |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 50         |             | 125             | 0.67               |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 80         |             | 125             | 0.63               |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |
| 100        |             | 80              | 0.59               |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |         |        |                             |      |             |     |

## Performance table

| MVD-100    |             |                 |                   |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |      |    |    |       |      |      |     |       |       |       |       |      |      |  |  |  |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|--------------------|--------------------|--------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|------|----|----|-------|------|------|-----|-------|-------|-------|-------|------|------|--|--|--|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>21</sub>    | F <sub>20Max</sub> | F <sub>21Max</sub> | J <sub>1</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |      |    |    |       |      |      |     |       |       |       |       |      |      |  |  |  |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | kg/mm <sup>2</sup> | N                  | N                  | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |      |    |    |       |      |      |     |       |       |       |       |      |      |  |  |  |
| I<br>STAGE | 3           | 160             | 2×T <sub>2N</sub> | 2500            | 6000              | ≤3             | 31                 | 6800               | 6200               | 3.14               | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤65 |      |    |    |       |      |      |     |       |       |       |       |      |      |  |  |  |
|            | 4           | 220             |                   |                 |                   |                |                    |                    |                    | 2.40               |     |                |        |                             |      |             |     |      |    |    |       |      |      |     |       |       |       |       |      |      |  |  |  |
|            | 5           | 260             |                   |                 |                   |                |                    |                    |                    | 2.16               |     |                |        |                             |      |             |     |      |    |    |       |      |      |     |       |       |       |       |      |      |  |  |  |
|            | 6           | 260             |                   |                 |                   |                |                    |                    |                    | 2.16               |     |                |        |                             |      |             |     |      |    |    |       |      |      |     |       |       |       |       |      |      |  |  |  |
|            | 7           | 260             |                   |                 |                   |                |                    |                    |                    | 1.93               |     |                |        |                             |      |             |     |      |    |    |       |      |      |     |       |       |       |       |      |      |  |  |  |
|            | 8           | 260             |                   |                 |                   |                |                    |                    |                    | 1.93               |     |                |        |                             |      |             |     |      |    |    |       |      |      |     |       |       |       |       |      |      |  |  |  |
|            | 9           | 160             |                   |                 |                   |                |                    |                    |                    | 1.93               |     |                |        |                             |      |             |     |      |    |    |       |      |      |     |       |       |       |       |      |      |  |  |  |
|            | 10          | 160             |                   |                 |                   |                |                    |                    |                    | 1.90               |     |                |        |                             |      |             |     |      |    |    |       |      |      |     |       |       |       |       |      |      |  |  |  |
|            | II<br>STAGE | 15              |                   |                 |                   |                |                    |                    |                    | 220                |     |                |        |                             |      |             |     | 2.95 | ≤5 | 53 | 11000 | 9800 | 2.95 | ≥90 | 15.19 | 13.05 | 11.89 | 10.28 | 9.39 | 8.76 |  |  |  |
|            |             | 20              |                   |                 |                   |                |                    |                    |                    | 300                |     |                |        |                             |      |             |     | 2.57 |    |    |       |      |      |     |       |       |       |       |      |      |  |  |  |
| 25         |             | 350             | 2.38              |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |      |    |    |       |      |      |     |       |       |       |       |      |      |  |  |  |
| 50         |             | 350             | 2.14              |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |      |    |    |       |      |      |     |       |       |       |       |      |      |  |  |  |
| 80         |             | 360             | 2.05              |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |      |    |    |       |      |      |     |       |       |       |       |      |      |  |  |  |
| 100        |             | 220             | 1.97              |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |      |    |    |       |      |      |     |       |       |       |       |      |      |  |  |  |

MVD

| MVD-140    |             |                 |                   |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |       |    |    |       |      |       |     |       |       |       |      |      |  |  |  |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|--------------------|--------------------|--------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|-------|----|----|-------|------|-------|-----|-------|-------|-------|------|------|--|--|--|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>21</sub>    | F <sub>20Max</sub> | F <sub>21Max</sub> | J <sub>1</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |       |    |    |       |      |       |     |       |       |       |      |      |  |  |  |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | kg/mm <sup>2</sup> | N                  | N                  | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |       |    |    |       |      |       |     |       |       |       |      |      |  |  |  |
| I<br>STAGE | 3           | 350             | 2×T <sub>2N</sub> | 2000            | 5000              | ≤3             | 53                 | 11000              | 9800               | 16.77              | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤66 |       |    |    |       |      |       |     |       |       |       |      |      |  |  |  |
|            | 4           | 550             |                   |                 |                   |                |                    |                    |                    | 12.61              |     |                |        |                             |      |             |     |       |    |    |       |      |       |     |       |       |       |      |      |  |  |  |
|            | 5           | 600             |                   |                 |                   |                |                    |                    |                    | 10.31              |     |                |        |                             |      |             |     |       |    |    |       |      |       |     |       |       |       |      |      |  |  |  |
|            | 6           | 600             |                   |                 |                   |                |                    |                    |                    | 10.31              |     |                |        |                             |      |             |     |       |    |    |       |      |       |     |       |       |       |      |      |  |  |  |
|            | 7           | 600             |                   |                 |                   |                |                    |                    |                    | 8.73               |     |                |        |                             |      |             |     |       |    |    |       |      |       |     |       |       |       |      |      |  |  |  |
|            | 8           | 550             |                   |                 |                   |                |                    |                    |                    | 8.73               |     |                |        |                             |      |             |     |       |    |    |       |      |       |     |       |       |       |      |      |  |  |  |
|            | 9           | 380             |                   |                 |                   |                |                    |                    |                    | 8.64               |     |                |        |                             |      |             |     |       |    |    |       |      |       |     |       |       |       |      |      |  |  |  |
|            | 10          | 380             |                   |                 |                   |                |                    |                    |                    | 8.35               |     |                |        |                             |      |             |     |       |    |    |       |      |       |     |       |       |       |      |      |  |  |  |
|            | II<br>STAGE | 15              |                   |                 |                   |                |                    |                    |                    | 460                |     |                |        |                             |      |             |     | 15.19 | ≤5 | 53 | 11000 | 9800 | 15.19 | ≥90 | 13.05 | 11.89 | 10.28 | 9.39 | 8.76 |  |  |  |
|            |             | 20              |                   |                 |                   |                |                    |                    |                    | 650                |     |                |        |                             |      |             |     | 13.05 |    |    |       |      |       |     |       |       |       |      |      |  |  |  |
| 25         |             | 700             | 11.89             |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |       |    |    |       |      |       |     |       |       |       |      |      |  |  |  |
| 50         |             | 700             | 10.28             |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |       |    |    |       |      |       |     |       |       |       |      |      |  |  |  |
| 80         |             | 700             | 9.39              |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |       |    |    |       |      |       |     |       |       |       |      |      |  |  |  |
| 100        |             | 460             | 8.76              |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |       |    |    |       |      |       |     |       |       |       |      |      |  |  |  |

# Performance table

MVD

| MVD-180    |             |                 |                   |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |    |     |     |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|--------------------|--------------------|--------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|----|-----|-----|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2rot</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>f</sub> | C <sub>21</sub>    | F <sub>20Max</sub> | F <sub>21Max</sub> | J <sub>1</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |    |     |     |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | kg/cm <sup>2</sup> | N                  | N                  | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |    |     |     |     |
| I<br>STAGE | 3           | 1100            | 2xT <sub>2N</sub> | 1500            | 3500              | ≤3             | 175                | 18500              | 16000              | 542                | ≥95 | >20000         | -15-45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤71 |    |     |     |     |
|            | 4           | 1600            |                   |                 |                   |                |                    |                    |                    | 3944               |     |                |        |                             |      |             |     |    |     |     |     |
|            | 5           | 1800            |                   |                 |                   |                |                    |                    |                    | 3338               |     |                |        |                             |      |             |     |    |     |     |     |
|            | 6           | 1800            |                   |                 |                   |                |                    |                    |                    | 3302               |     |                |        |                             |      |             |     |    |     |     |     |
|            | 7           | 1800            |                   |                 |                   |                |                    |                    |                    | 2749               |     |                |        |                             |      |             |     |    |     |     |     |
|            | 8           | 1800            |                   |                 |                   |                |                    |                    |                    | 27.00              |     |                |        |                             |      |             |     |    |     |     |     |
|            | 9           | 1200            |                   |                 |                   |                |                    |                    |                    | 27.37              |     |                |        |                             |      |             |     |    |     |     |     |
|            | 10          | 1200            |                   |                 |                   |                |                    |                    |                    | 47.00              |     |                |        |                             |      |             |     |    |     |     |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                |                    |                    |                    | 1300               |     |                |        |                             |      |             |     | ≤5 | 308 | ≥90 | 345 |
|            |             | 20              |                   |                 |                   |                |                    |                    |                    | 1800               |     |                |        |                             |      |             |     |    |     |     | 315 |
| 25         |             | 1900            | 30.8              |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |    |     |     |     |
| 50         |             | 1900            | 28.3              |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |    |     |     |     |
| 80         |             | 1900            | 26.37             |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |    |     |     |     |
| 100        |             | 1300            | 30.36             |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |    |     |     |     |

| MVD-210    |             |                 |                   |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |    |     |     |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|--------------------|--------------------|--------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|----|-----|-----|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2rot</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>f</sub> | C <sub>21</sub>    | F <sub>20Max</sub> | F <sub>21Max</sub> | J <sub>1</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |    |     |     |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | kg/cm <sup>2</sup> | N                  | N                  | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |    |     |     |     |
| I<br>STAGE | 3           | 1500            | 2xT <sub>2N</sub> | 1200            | 3000              | ≤3             | 400                | 23000              | 21000              | 139                | ≥95 | >20000         | -15-45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤75 |    |     |     |     |
|            | 4           | 2100            |                   |                 |                   |                |                    |                    |                    | 835                |     |                |        |                             |      |             |     |    |     |     |     |
|            | 5           | 2200            |                   |                 |                   |                |                    |                    |                    | 68.1               |     |                |        |                             |      |             |     |    |     |     |     |
|            | 6           | 2200            |                   |                 |                   |                |                    |                    |                    | 68.1               |     |                |        |                             |      |             |     |    |     |     |     |
|            | 7           | 2200            |                   |                 |                   |                |                    |                    |                    | 54.4               |     |                |        |                             |      |             |     |    |     |     |     |
|            | 8           | 2200            |                   |                 |                   |                |                    |                    |                    | 52.2               |     |                |        |                             |      |             |     |    |     |     |     |
|            | 9           | 1600            |                   |                 |                   |                |                    |                    |                    | 49.3               |     |                |        |                             |      |             |     |    |     |     |     |
|            | 10          | 1500            |                   |                 |                   |                |                    |                    |                    | 47.0               |     |                |        |                             |      |             |     |    |     |     |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                |                    |                    |                    | 2400               |     |                |        |                             |      |             |     | ≤5 | 308 | ≥90 | 345 |
|            |             | 20              |                   |                 |                   |                |                    |                    |                    | 2400               |     |                |        |                             |      |             |     |    |     |     | 315 |
| 25         |             | 2550            | 30.8              |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |    |     |     |     |
| 50         |             | 2550            | 28.3              |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |    |     |     |     |
| 80         |             | 2550            | 28.1              |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |    |     |     |     |
| 100        |             | 1900            | 28.0              |                 |                   |                |                    |                    |                    |                    |     |                |        |                             |      |             |     |    |     |     |     |

# Performance table

| MVD-240    |             |                 |                   |                |                  |                |                 |                   |                   |                    |     |                |        |                             |      |             |     |    |    |     |    |  |
|------------|-------------|-----------------|-------------------|----------------|------------------|----------------|-----------------|-------------------|-------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|----|----|-----|----|--|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>N</sub> | n <sub>Max</sub> | j <sub>t</sub> | C <sub>2t</sub> | F <sub>2Max</sub> | F <sub>2Max</sub> | J <sub>t</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          |     |    |    |     |    |  |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm            | rpm              | arcmin         | mm/mm           | N                 | N                 | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |    | dB |     |    |  |
| I<br>STAGE | 3           | 3000            | 2xT <sub>2N</sub> | 1000           | 2500             | ≤3             | 540             | 29000             | 26500             | 180                | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤77 |    |    |     |    |  |
|            | 4           | 3000            |                   |                |                  |                |                 |                   |                   | 180                |     |                |        |                             |      |             |     |    |    |     |    |  |
|            | 5           | 3150            |                   |                |                  |                |                 |                   |                   | 170                |     |                |        |                             |      |             |     |    |    |     |    |  |
|            | 6           | 3150            |                   |                |                  |                |                 |                   |                   | 170                |     |                |        |                             |      |             |     |    |    |     |    |  |
|            | 7           | 3150            |                   |                |                  |                |                 |                   |                   | 170                |     |                |        |                             |      |             |     |    |    |     |    |  |
|            | 8           | 3000            |                   |                |                  |                |                 |                   |                   | 170                |     |                |        |                             |      |             |     |    |    |     |    |  |
|            | 9           | 2400            |                   |                |                  |                |                 |                   |                   | 150                |     |                |        |                             |      |             |     |    |    |     |    |  |
|            | 10          | 2200            |                   |                |                  |                |                 |                   |                   | 150                |     |                |        |                             |      |             |     |    |    |     |    |  |
|            | II<br>STAGE | 15              |                   |                |                  |                |                 |                   |                   | 3000               |     |                |        |                             |      |             |     | ≤5 | 64 | ≥90 |    |  |
|            |             | 20              |                   |                |                  |                |                 |                   |                   | 3000               |     |                |        |                             |      |             |     |    |    |     | 64 |  |
| 25         |             | 3150            | 64                |                |                  |                |                 |                   |                   |                    |     |                |        |                             |      |             |     |    |    |     |    |  |
| 50         |             | 3150            | 64                |                |                  |                |                 |                   |                   |                    |     |                |        |                             |      |             |     |    |    |     |    |  |
| 80         |             | 3150            | 64                |                |                  |                |                 |                   |                   |                    |     |                |        |                             |      |             |     |    |    |     |    |  |
| 100        |             | 2300            | 64                |                |                  |                |                 |                   |                   |                    |     |                |        |                             |      |             |     |    |    |     |    |  |

MVD

**MAF SERIES**



高性能系列适应于最恶劣工况。MAF精密行星提供高刚性、最大扭矩、最高精度和小体积。

High-performance series for heaviest operating duties, MAF gearboxes present high torsional stiffness, maximum power, optimum precision and compactness.



MAF

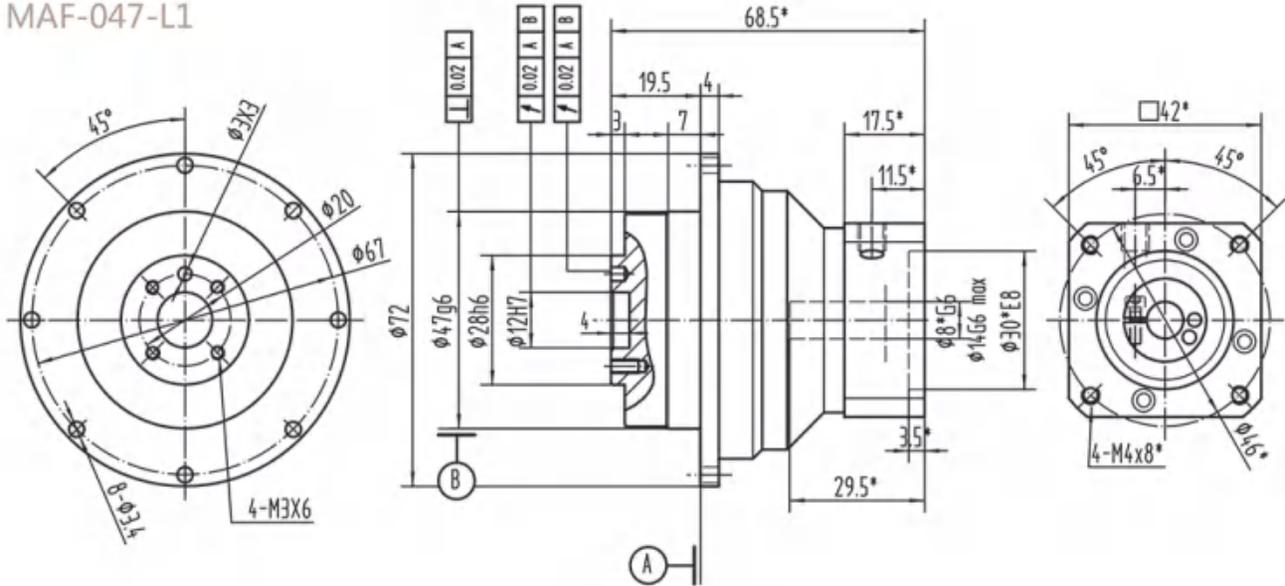
**造型数据:**  
Selection data:

|               |         |
|---------------|---------|
| 扭矩 ( Nm )     | 14-3150 |
| 速比            | 4-100   |
| 背隙 ( arcmin ) | 3-5     |
| 最大工作温度 ( °C ) | 90      |
| 噪音 ( dB )     | 58-79   |

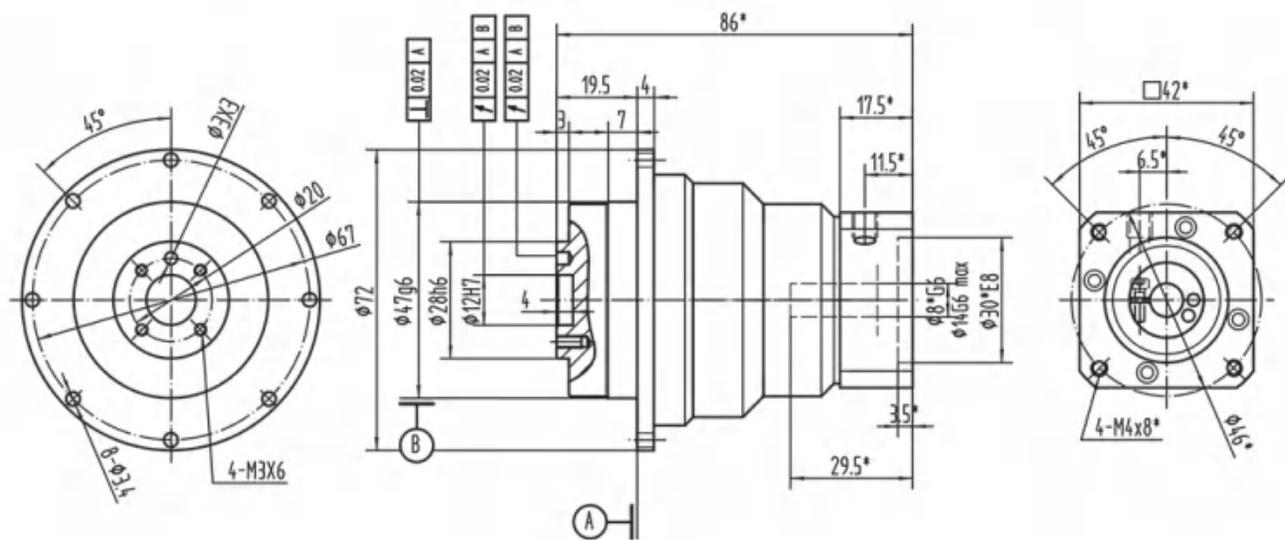
|                                |         |
|--------------------------------|---------|
| Nominal output torque ( Nm )   | 14-3150 |
| Reduction ratio                | 4-100   |
| Backlash ( arcmin )            | 3-5     |
| Max.working temperature ( °C ) | 90      |
| Noise ( dB )                   | 58-79   |

# Drawing / Size

MAF-047-L1



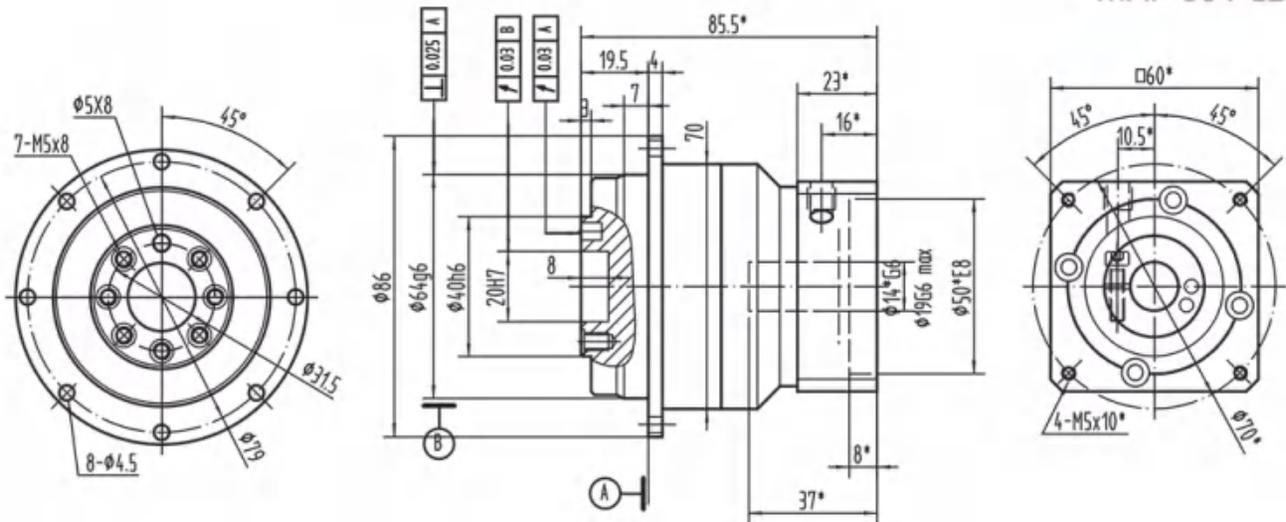
MAF-047-L2



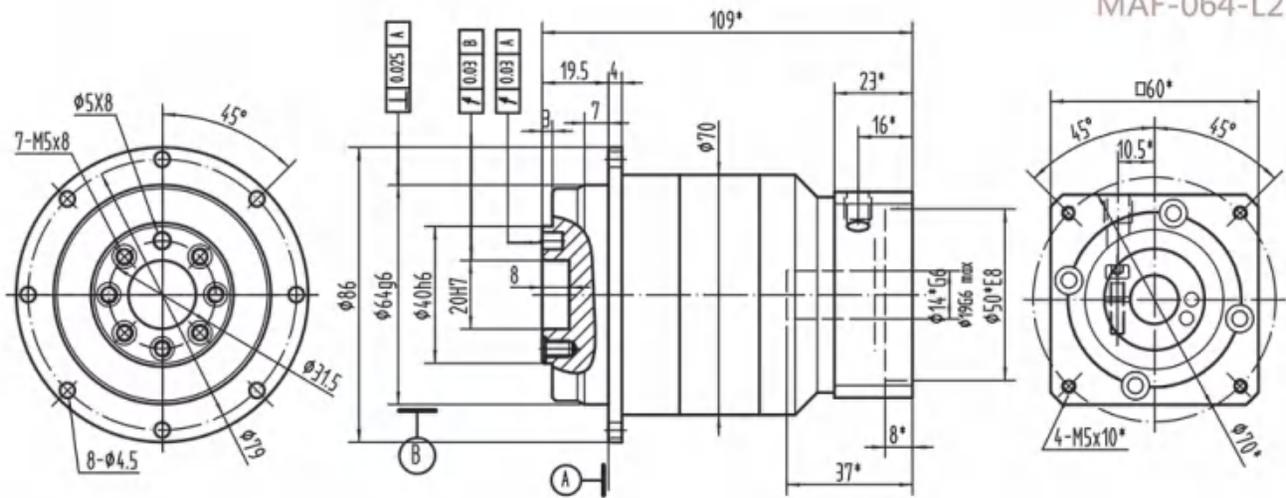
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Drawing / Size

MAF-064-L1



MAF-064-L2

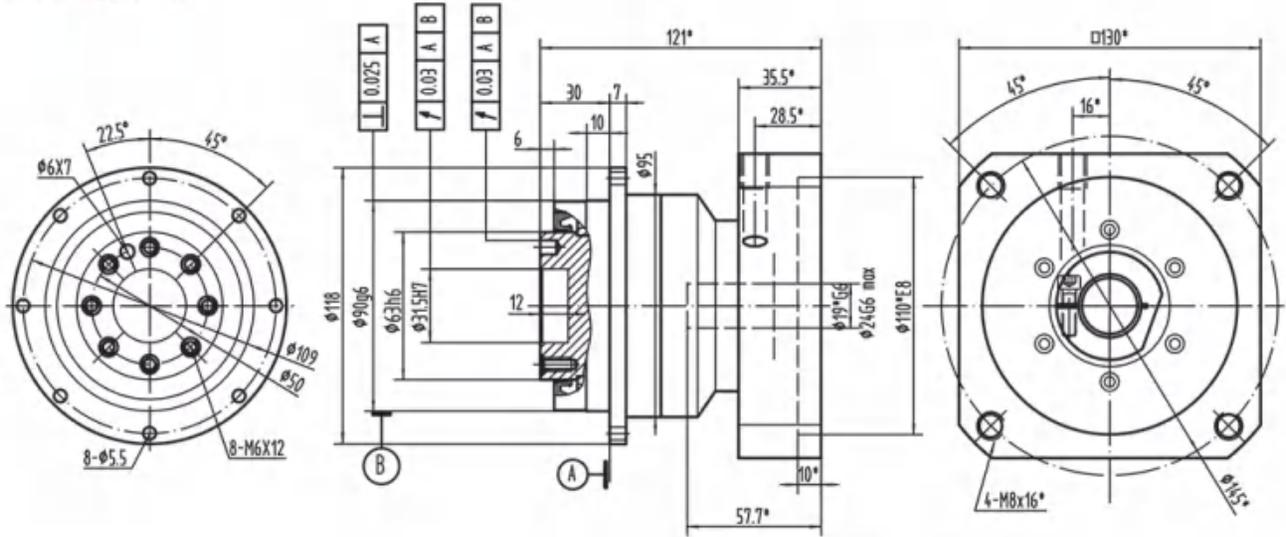


\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

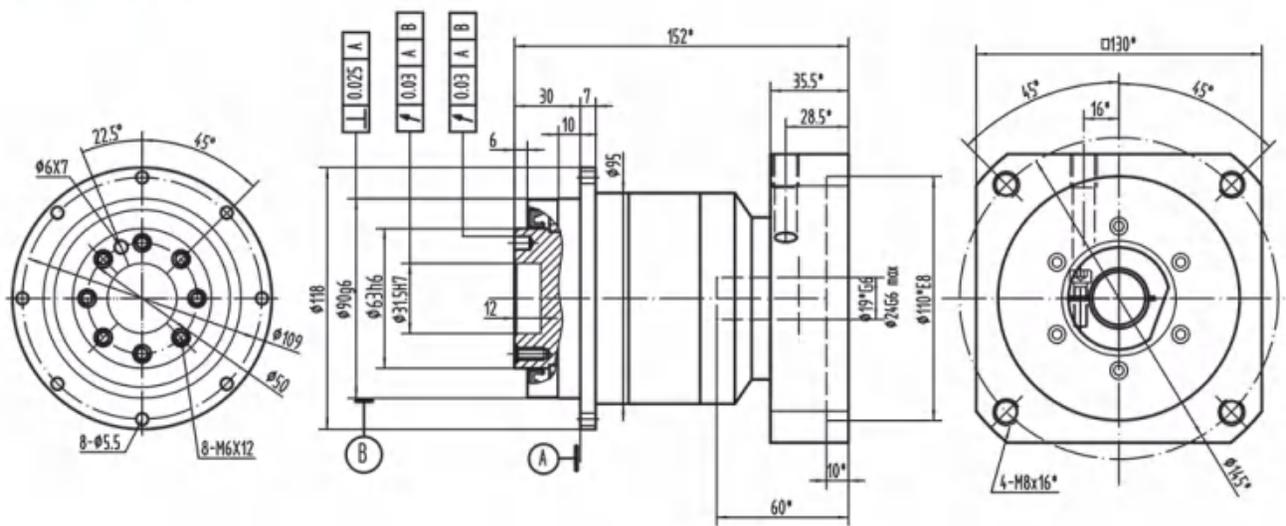
MAF

# Drawing / Size

MAF-090-L1



MAF-090-L2

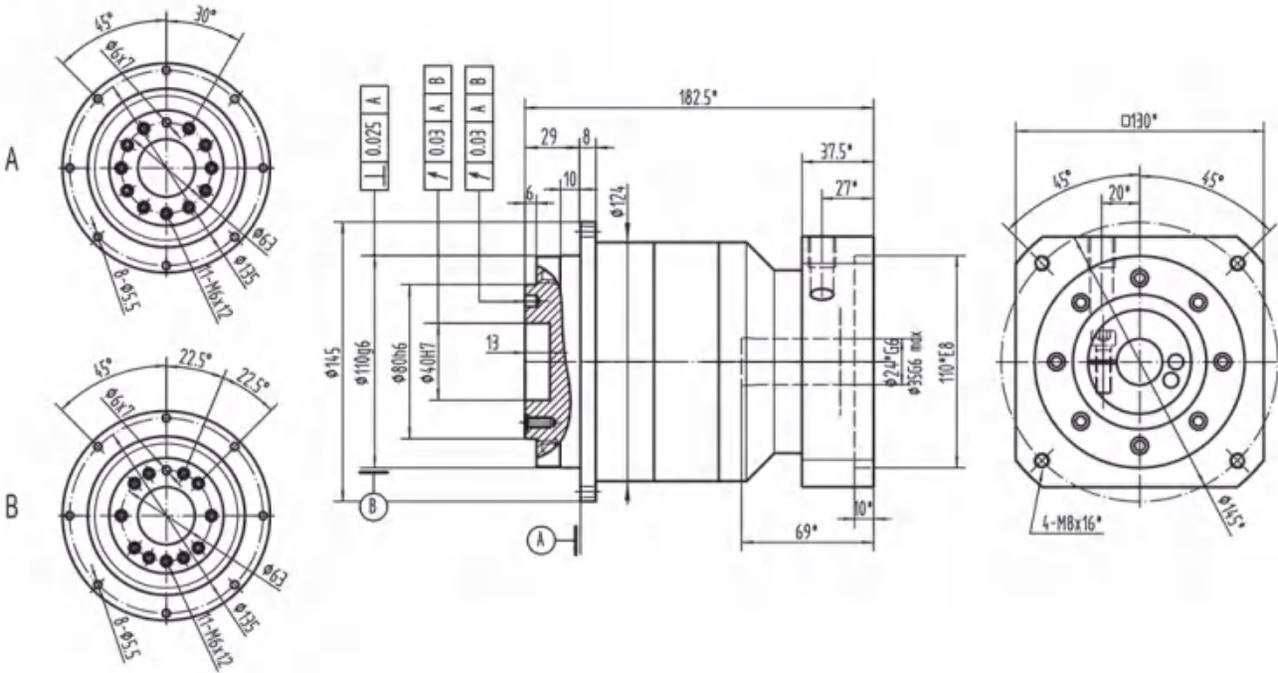


\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

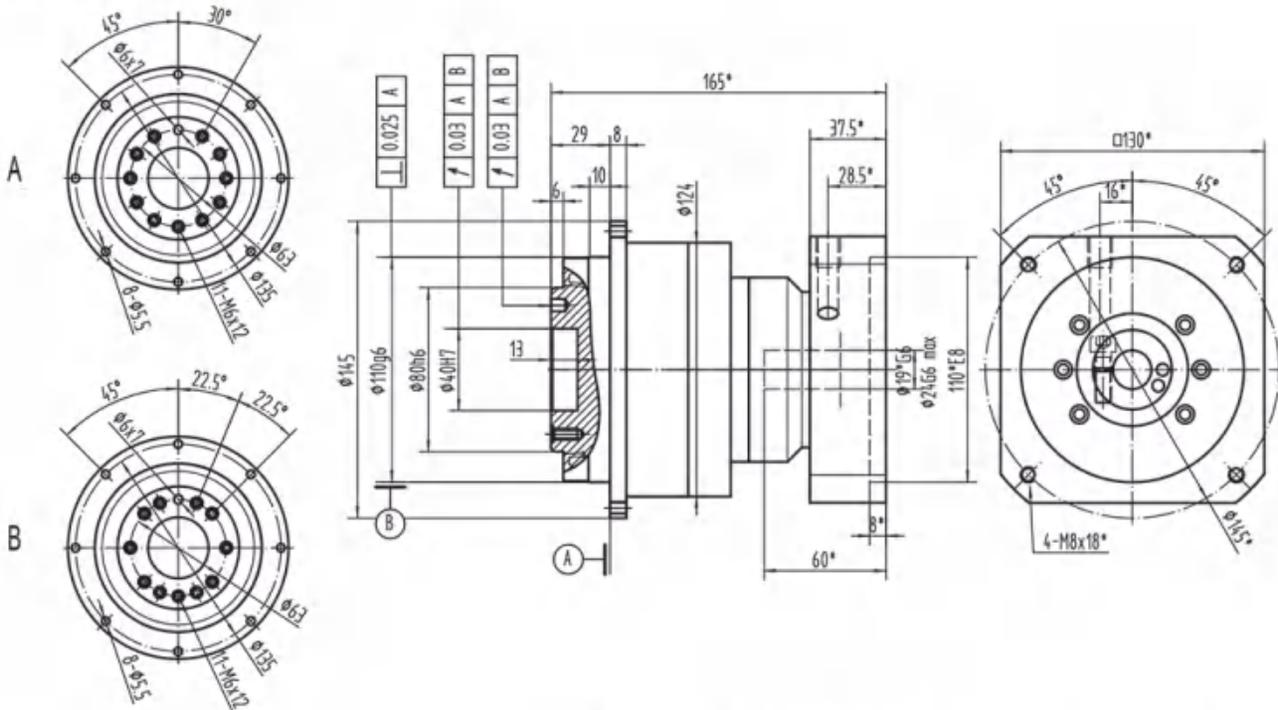


# Drawing / Size

## MAF-110-L2



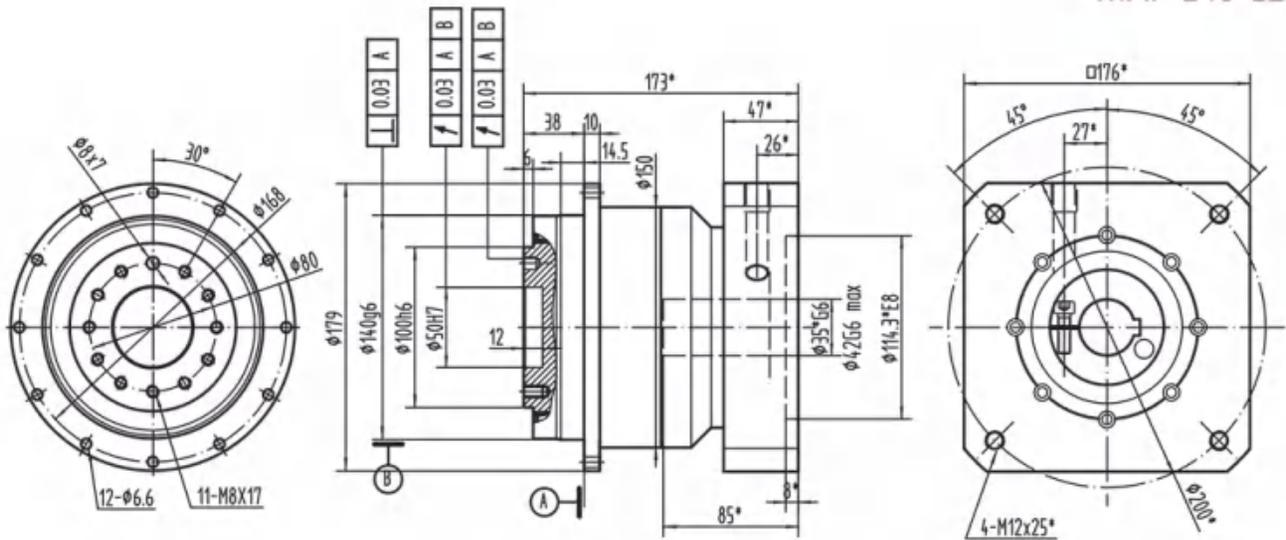
## MAF-110-L2 (Smaller hole)



\* Dimensions based on servo-motor, please contact us for custom made order.  
 注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

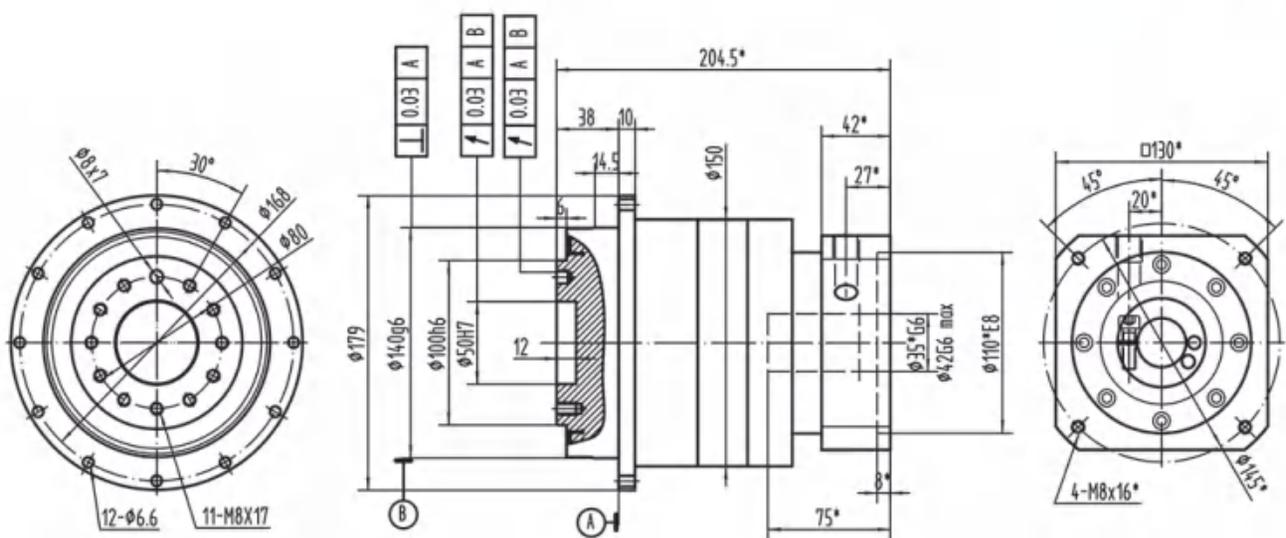
# Drawing / Size

MAF-140-L1



MAF

MAF-140-L2



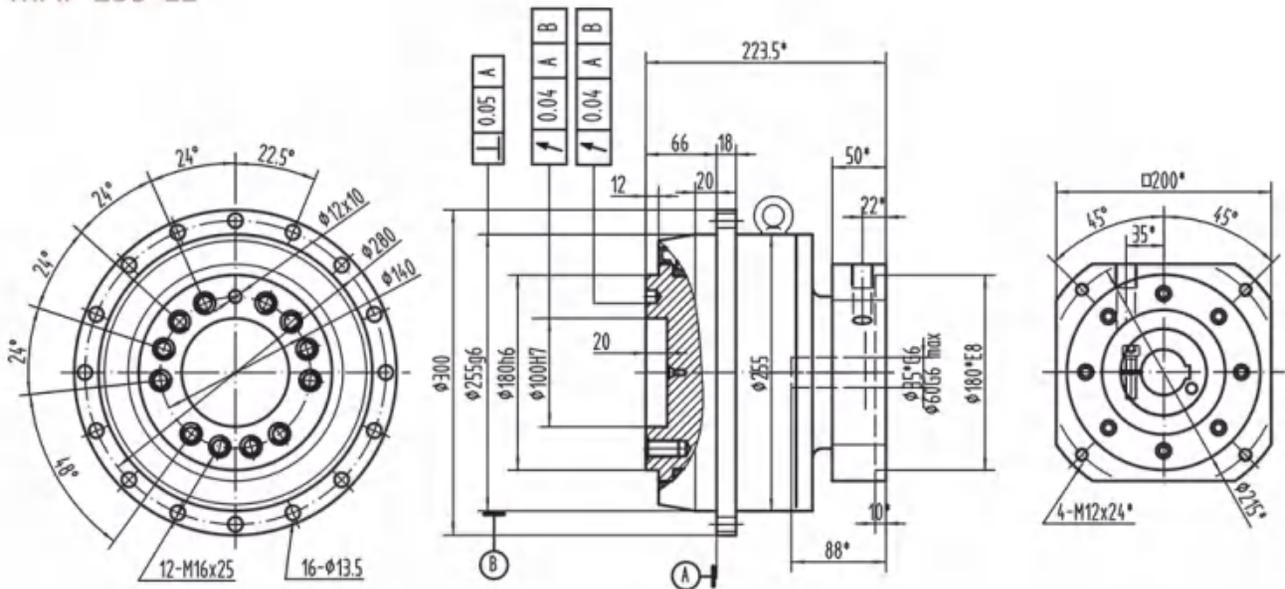
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸: 代表可根据客户需求定制产品, 如有需要, 请联系我们!



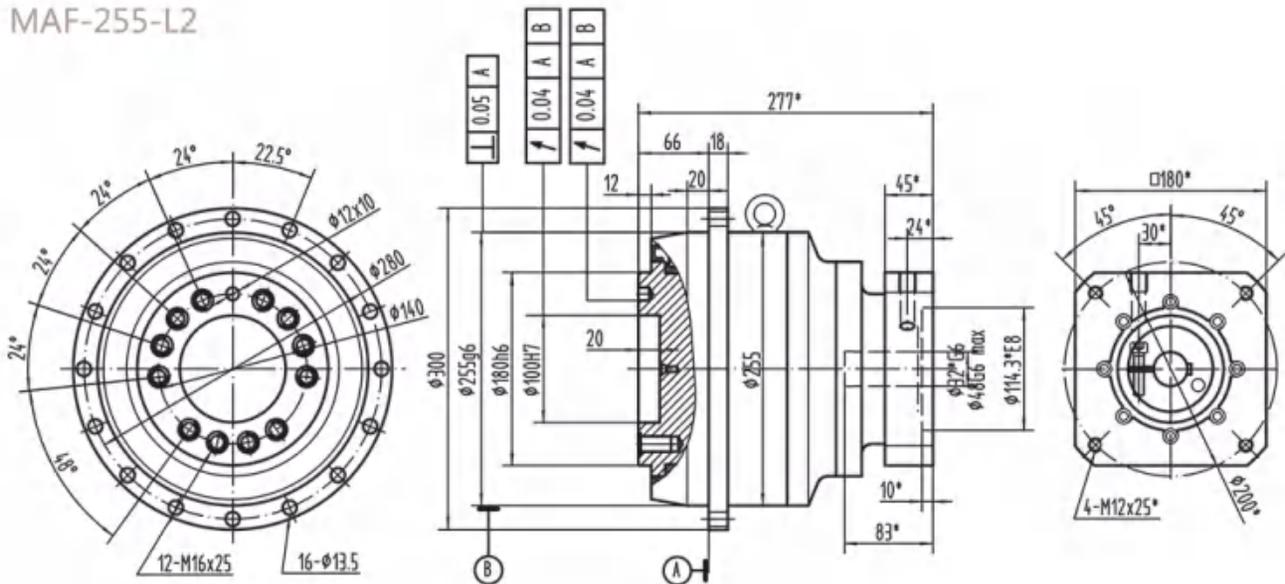


## Drawing / Size

MAF-255-L1



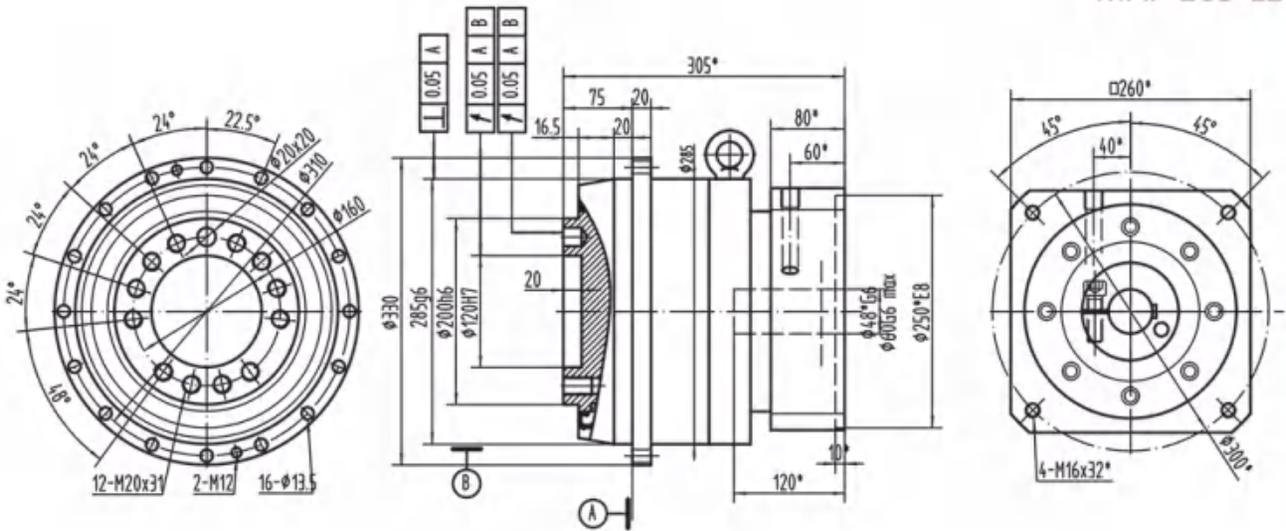
MAF-255-L2



\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸: 代表可根据客户需求定制产品, 如有需要, 请联系我们!

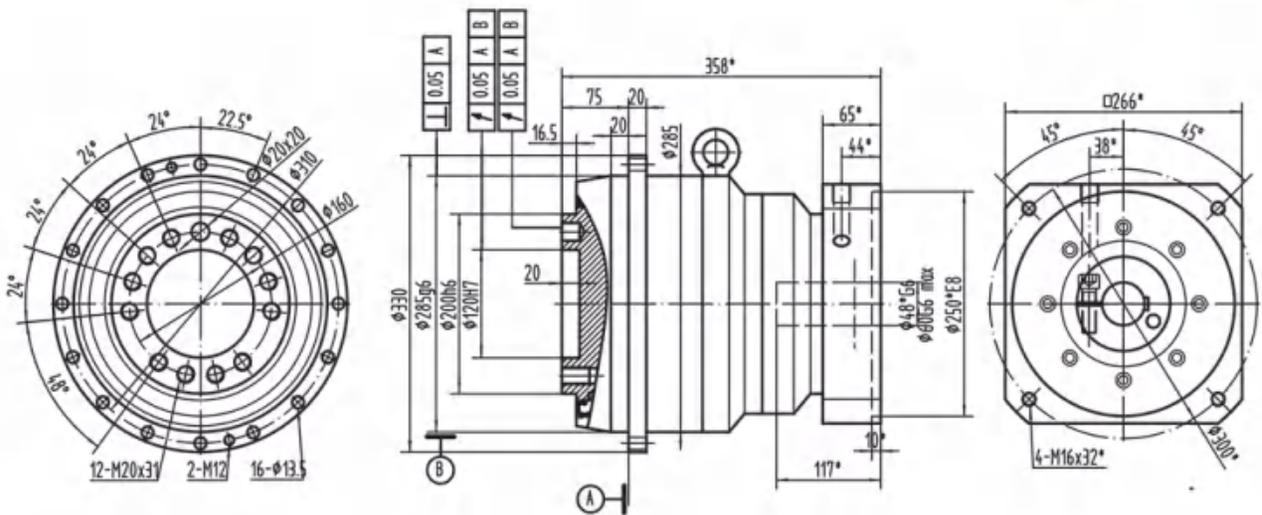
# Drawing / Size

MAF-285-L1



MAF

MAF-285-L2



\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Performance table

MAF

| MAF-047     |     |                 |                   |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |  |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|--|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>i</sub> | C <sub>2i</sub> | F <sub>20Max</sub> | F <sub>25Max</sub> | J <sub>i</sub>     | η   | L <sub>h</sub> | T      | Lub.                        | PC   | MP          | dB  |  |
| Unit        |     | N <sub>in</sub> | N <sub>in</sub>   | rpm             | rpm               | arcmin         | mm/mm           | N                  | N                  | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |  |
| I<br>STAGE  | 4   | 14              | 2×T <sub>2N</sub> | 4000            | 8000              | ≤3             | 5               | 800                | 500                | 3                  | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤58 |  |
|             | 5   | 20              |                   |                 |                   |                |                 |                    |                    | 3                  |     |                |        |                             |      |             |     |  |
|             | 6   | 20              |                   |                 |                   |                |                 |                    |                    | 3                  |     |                |        |                             |      |             |     |  |
|             | 7   | 20              |                   |                 |                   |                |                 |                    |                    | 2.2                |     |                |        |                             |      |             |     |  |
|             | 8   | 20              |                   |                 |                   |                |                 |                    |                    | 3                  |     |                |        |                             |      |             |     |  |
|             | 9   | 14              |                   |                 |                   |                |                 |                    |                    | 3                  |     |                |        |                             |      |             |     |  |
|             | 10  | 14              |                   |                 |                   |                |                 |                    |                    | 2.2                |     |                |        |                             |      |             |     |  |
| II<br>STAGE | 20  | 14              | 2×T <sub>2N</sub> | 4000            | 8000              | ≤5             | 5               | 800                | 500                | 3                  | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤58 |  |
|             | 25  | 20              |                   |                 |                   |                |                 |                    |                    | 3                  |     |                |        |                             |      |             |     |  |
|             | 50  | 20              |                   |                 |                   |                |                 |                    |                    | 3                  |     |                |        |                             |      |             |     |  |
|             | 80  | 20              |                   |                 |                   |                |                 |                    |                    | 3                  |     |                |        |                             |      |             |     |  |
|             | 100 | 14              |                   |                 |                   |                |                 |                    |                    | 2.2                |     |                |        |                             |      |             |     |  |

| MAF-064     |     |                 |                   |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |  |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|--|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>i</sub> | C <sub>2i</sub> | F <sub>20Max</sub> | F <sub>25Max</sub> | J <sub>i</sub>     | η   | L <sub>h</sub> | T      | Lub.                        | PC   | MP          | dB  |  |
| Unit        |     | N <sub>in</sub> | N <sub>in</sub>   | rpm             | rpm               | arcmin         | mm/mm           | N                  | N                  | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |  |
| I<br>STAGE  | 4   | 40              | 2×T <sub>2N</sub> | 3300            | 6000              | ≤3             | 13              | 1300               | 680                | 0.13               | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤60 |  |
|             | 5   | 40              |                   |                 |                   |                |                 |                    |                    | 0.13               |     |                |        |                             |      |             |     |  |
|             | 6   | 40              |                   |                 |                   |                |                 |                    |                    | 0.13               |     |                |        |                             |      |             |     |  |
|             | 7   | 40              |                   |                 |                   |                |                 |                    |                    | 0.13               |     |                |        |                             |      |             |     |  |
|             | 8   | 40              |                   |                 |                   |                |                 |                    |                    | 0.03               |     |                |        |                             |      |             |     |  |
|             | 9   | 25              |                   |                 |                   |                |                 |                    |                    | 0.03               |     |                |        |                             |      |             |     |  |
|             | 10  | 25              |                   |                 |                   |                |                 |                    |                    | 0.03               |     |                |        |                             |      |             |     |  |
| II<br>STAGE | 20  | 50              | 2×T <sub>2N</sub> | 3300            | 6000              | ≤5             | 13              | 1300               | 680                | 0.03               | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤60 |  |
|             | 25  | 50              |                   |                 |                   |                |                 |                    |                    | 0.03               |     |                |        |                             |      |             |     |  |
|             | 50  | 50              |                   |                 |                   |                |                 |                    |                    | 0.03               |     |                |        |                             |      |             |     |  |
|             | 80  | 50              |                   |                 |                   |                |                 |                    |                    | 0.03               |     |                |        |                             |      |             |     |  |
|             | 100 | 35              |                   |                 |                   |                |                 |                    |                    | 0.03               |     |                |        |                             |      |             |     |  |

## Performance table

| MAF-090     |     |                 |                   |                 |                   |                |                 |                     |                   |                    |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|-------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>2N</sub> | n <sub>2Max</sub> | j <sub>t</sub> | C <sub>2t</sub> | F <sub>200Max</sub> | F <sub>2Max</sub> | j <sub>t</sub>     | η   | L <sub>n</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | 1/arcmin        | N                   | N                 | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 4   | 120             | 2×T <sub>2N</sub> | 2600            | 6000              | ≤3             | 31              | 3100                | 1650              | 0.51               | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤63 |
|             | 5   | 125             |                   |                 |                   |                |                 |                     |                   | 0.47               |     |                |        |                             |      |             |     |
|             | 6   | 125             |                   |                 |                   |                |                 |                     |                   | 0.47               |     |                |        |                             |      |             |     |
|             | 7   | 125             |                   |                 |                   |                |                 |                     |                   | 0.45               |     |                |        |                             |      |             |     |
|             | 8   | 125             |                   |                 |                   |                |                 |                     |                   | 0.45               |     |                |        |                             |      |             |     |
|             | 9   | 80              |                   |                 |                   |                |                 |                     |                   | 0.44               |     |                |        |                             |      |             |     |
|             | 10  | 80              |                   |                 |                   |                |                 |                     |                   | 0.44               |     |                |        |                             |      |             |     |
| II<br>STAGE | 20  | 120             | 2×T <sub>2N</sub> | 2600            | 6000              | ≤5             | 31              | 3100                | 1650              | 0.13               | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤63 |
|             | 25  | 125             |                   |                 |                   |                |                 |                     |                   | 0.13               |     |                |        |                             |      |             |     |
|             | 50  | 125             |                   |                 |                   |                |                 |                     |                   | 0.13               |     |                |        |                             |      |             |     |
|             | 80  | 125             |                   |                 |                   |                |                 |                     |                   | 0.44               |     |                |        |                             |      |             |     |
|             | 100 | 80              |                   |                 |                   |                |                 |                     |                   | 0.13               |     |                |        |                             |      |             |     |

MAF

| MAF-110     |     |                 |                   |                 |                   |                |                 |                     |                   |                    |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|-------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>2N</sub> | n <sub>2Max</sub> | j <sub>t</sub> | C <sub>2t</sub> | F <sub>200Max</sub> | F <sub>2Max</sub> | j <sub>t</sub>     | η   | L <sub>n</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | 1/arcmin        | N                   | N                 | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 4   | 220             | 2×T <sub>2N</sub> | 2300            | 6000              | ≤3             | 82              | 7800                | 4000              | 2.87               | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤65 |
|             | 5   | 260             |                   |                 |                   |                |                 |                     |                   | 2.71               |     |                |        |                             |      |             |     |
|             | 6   | 260             |                   |                 |                   |                |                 |                     |                   | 2.71               |     |                |        |                             |      |             |     |
|             | 7   | 260             |                   |                 |                   |                |                 |                     |                   | 2.62               |     |                |        |                             |      |             |     |
|             | 8   | 260             |                   |                 |                   |                |                 |                     |                   | 2.61               |     |                |        |                             |      |             |     |
|             | 9   | 160             |                   |                 |                   |                |                 |                     |                   | 2.58               |     |                |        |                             |      |             |     |
|             | 10  | 160             |                   |                 |                   |                |                 |                     |                   | 2.57               |     |                |        |                             |      |             |     |
| II<br>STAGE | 20  | 300             | 2×T <sub>2N</sub> | 2300            | 6000              | ≤5             | 82              | 7800                | 4000              | 0.47               | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤65 |
|             | 25  | 350             |                   |                 |                   |                |                 |                     |                   | 0.47               |     |                |        |                             |      |             |     |
|             | 50  | 350             |                   |                 |                   |                |                 |                     |                   | 0.44               |     |                |        |                             |      |             |     |
|             | 80  | 350             |                   |                 |                   |                |                 |                     |                   | 0.44               |     |                |        |                             |      |             |     |
|             | 100 | 220             |                   |                 |                   |                |                 |                     |                   | 0.44               |     |                |        |                             |      |             |     |

# Performance table

MAF

| MAF-140     |     |                 |                   |                 |                   |                |                 |                    |                   |                    |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|-------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>21</sub> | F <sub>20Max</sub> | F <sub>2Max</sub> | J <sub>1</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>in</sub> | N <sub>in</sub>   | rpm             | rpm               | arcmin         | mm/mm           | N                  | N                 | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 4   | 550             | 2×T <sub>2N</sub> | 2000            | 5000              | ≤3             | 151             | 12000              | 8100              | 7.54               | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤66 |
|             | 5   | 600             |                   |                 |                   |                |                 |                    |                   | 7.42               |     |                |        |                             |      |             |     |
|             | 6   | 600             |                   |                 |                   |                |                 |                    |                   | 7.42               |     |                |        |                             |      |             |     |
|             | 7   | 600             |                   |                 |                   |                |                 |                    |                   | 7.14               |     |                |        |                             |      |             |     |
|             | 8   | 550             |                   |                 |                   |                |                 |                    |                   | 7.13               |     |                |        |                             |      |             |     |
|             | 9   | 380             |                   |                 |                   |                |                 |                    |                   | 7.08               |     |                |        |                             |      |             |     |
|             | 10  | 380             |                   |                 |                   |                |                 |                    |                   | 7.03               |     |                |        |                             |      |             |     |
| II<br>STAGE | 20  | 650             | 2×T <sub>2N</sub> | 2000            | 5000              | ≤5             | 151             | 12000              | 8100              | 2.71               | ≥90 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤66 |
|             | 25  | 700             |                   |                 |                   |                |                 |                    |                   | 2.71               |     |                |        |                             |      |             |     |
|             | 50  | 700             |                   |                 |                   |                |                 |                    |                   | 2.57               |     |                |        |                             |      |             |     |
|             | 80  | 700             |                   |                 |                   |                |                 |                    |                   | 2.57               |     |                |        |                             |      |             |     |
|             | 100 | 460             |                   |                 |                   |                |                 |                    |                   | 2.57               |     |                |        |                             |      |             |     |

| MAF-200     |     |                 |                   |                 |                   |                |                 |                    |                   |                    |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|-------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>21</sub> | F <sub>20Max</sub> | F <sub>2Max</sub> | J <sub>1</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>in</sub> | N <sub>in</sub>   | rpm             | rpm               | arcmin         | mm/mm           | N                  | N                 | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 4   | 1000            | 2×T <sub>2N</sub> | 2000            | 4000              | ≤3             | 450             | 18520              | 15500             | 23.4               | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤73 |
|             | 5   | 1000            |                   |                 |                   |                |                 |                    |                   | 23.4               |     |                |        |                             |      |             |     |
|             | 6   | 1000            |                   |                 |                   |                |                 |                    |                   | 23.4               |     |                |        |                             |      |             |     |
|             | 7   | 1000            |                   |                 |                   |                |                 |                    |                   | 23.4               |     |                |        |                             |      |             |     |
|             | 8   | 1000            |                   |                 |                   |                |                 |                    |                   | 21.8               |     |                |        |                             |      |             |     |
|             | 9   | 650             |                   |                 |                   |                |                 |                    |                   | 21.8               |     |                |        |                             |      |             |     |
|             | 10  | 650             |                   |                 |                   |                |                 |                    |                   | 21.8               |     |                |        |                             |      |             |     |
| II<br>STAGE | 20  | 1350            | 2×T <sub>2N</sub> | 2000            | 4000              | ≤5             | 450             | 18520              | 15500             | 21.8               | ≥90 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤73 |
|             | 25  | 1400            |                   |                 |                   |                |                 |                    |                   | 21.8               |     |                |        |                             |      |             |     |
|             | 50  | 1400            |                   |                 |                   |                |                 |                    |                   | 21.8               |     |                |        |                             |      |             |     |
|             | 80  | 1400            |                   |                 |                   |                |                 |                    |                   | 21.8               |     |                |        |                             |      |             |     |
|             | 100 | 980             |                   |                 |                   |                |                 |                    |                   | 21.8               |     |                |        |                             |      |             |     |

## Performance table

| MAF-255     |     |                 |                   |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>2N</sub> | n <sub>2Max</sub> | J <sub>1</sub> | C <sub>21</sub> | F <sub>20Max</sub> | F <sub>25Max</sub> | J <sub>1</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | 1/1000mm        | N                  | N                  | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 4   | 2100            | 2×T <sub>2N</sub> | 2000            | 3000              | ≤3             | 1023            | 27000              | 24000              | 180                | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤77 |
|             | 5   | 2200            |                   |                 |                   |                |                 |                    |                    | 170                |     |                |        |                             |      |             |     |
|             | 6   | 2200            |                   |                 |                   |                |                 |                    |                    | 170                |     |                |        |                             |      |             |     |
|             | 7   | 2200            |                   |                 |                   |                |                 |                    |                    | 170                |     |                |        |                             |      |             |     |
|             | 8   | 2200            |                   |                 |                   |                |                 |                    |                    | 170                |     |                |        |                             |      |             |     |
|             | 9   | 1600            |                   |                 |                   |                |                 |                    |                    | 150                |     |                |        |                             |      |             |     |
|             | 10  | 1500            |                   |                 |                   |                |                 |                    |                    | 150                |     |                |        |                             |      |             |     |
| II<br>STAGE | 20  | 2400            | 64                | ≥90             |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |
|             | 25  | 2550            | 64                |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |
|             | 50  | 2550            | 64                |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |
|             | 80  | 2550            | 64                |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |
|             | 100 | 1900            | 64                |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |

MAF

| MAF-285     |     |                 |                   |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>2N</sub> | n <sub>2Max</sub> | J <sub>1</sub> | C <sub>21</sub> | F <sub>20Max</sub> | F <sub>25Max</sub> | J <sub>1</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | 1/1000mm        | N                  | N                  | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 4   | 3000            | 2×T <sub>2N</sub> | 1500            | 2500              | ≤3             | 1300            | 44000              | 37000              | 128.3              | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤79 |
|             | 5   | 3150            |                   |                 |                   |                |                 |                    |                    | 128.3              |     |                |        |                             |      |             |     |
|             | 6   | 3150            |                   |                 |                   |                |                 |                    |                    | 128.3              |     |                |        |                             |      |             |     |
|             | 7   | 3150            |                   |                 |                   |                |                 |                    |                    | 128.3              |     |                |        |                             |      |             |     |
|             | 8   | 3000            |                   |                 |                   |                |                 |                    |                    | 128.3              |     |                |        |                             |      |             |     |
|             | 9   | 2400            |                   |                 |                   |                |                 |                    |                    | 128.3              |     |                |        |                             |      |             |     |
|             | 10  | 2200            |                   |                 |                   |                |                 |                    |                    | 128.3              |     |                |        |                             |      |             |     |
| II<br>STAGE | 20  | 3000            | 64.3              | ≥90             |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |
|             | 25  | 3150            | 64.3              |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |
|             | 50  | 3150            | 64.3              |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |
|             | 80  | 3150            | 64.3              |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |
|             | 100 | 2300            | 64.3              |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |

**MAFQ SERIES**



MAFQ相对于MAF有更高的扭矩

The MAFQ has a higher torque than the MAF



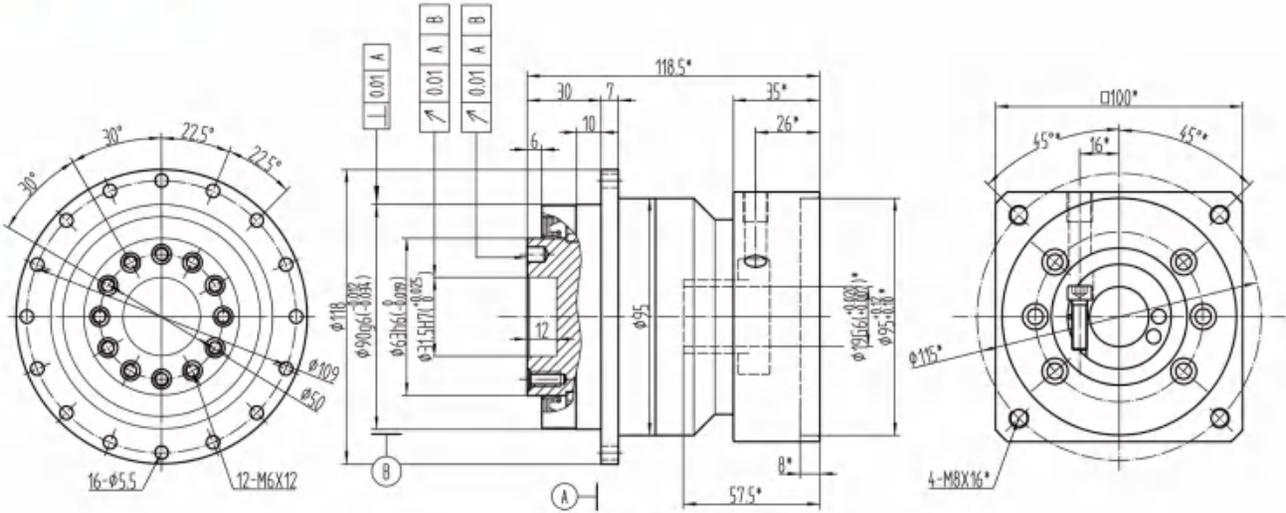
造型数据：  
Selection data:

|               |           |
|---------------|-----------|
| 扭矩 ( Nm )     | 100-25000 |
| 速比            | 5.5的倍数    |
| 背隙 ( arcmin ) | 3-5       |
| 最大工作温度 ( °C ) | 90        |
| 噪音 ( dB )     | 58-79     |

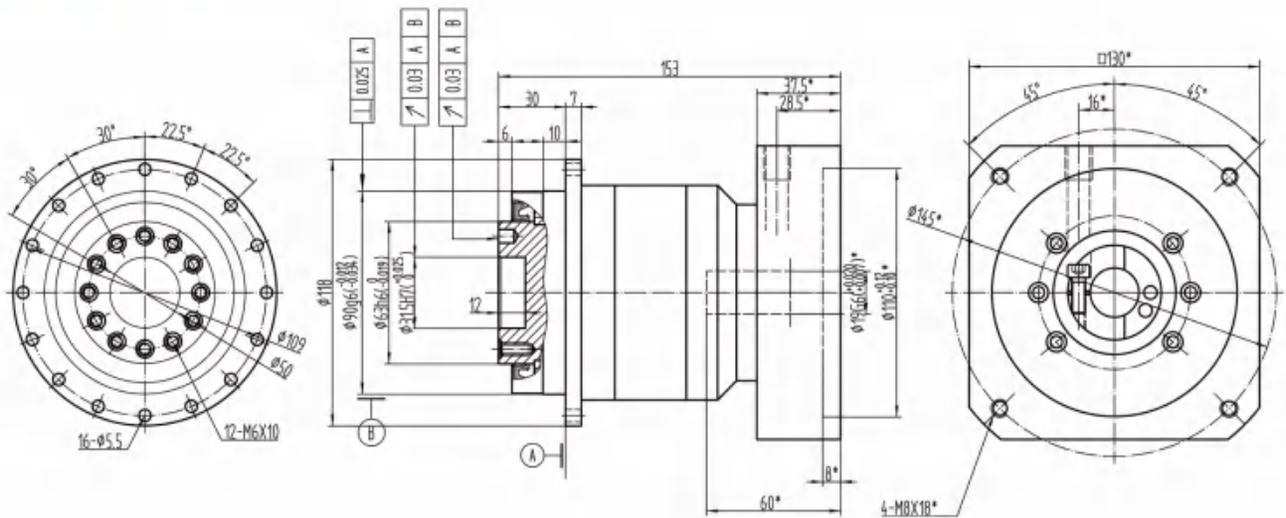
|                                |           |
|--------------------------------|-----------|
| Nominal output torque ( Nm )   | 100-25000 |
| Reduction ratio                | 5.5的倍数    |
| Backlash ( arcmin )            | 3-5       |
| Max.working temperature ( °C ) | 90        |
| Noise ( dB )                   | 58-79     |

Drawing / Size

MAFQ-090-L1

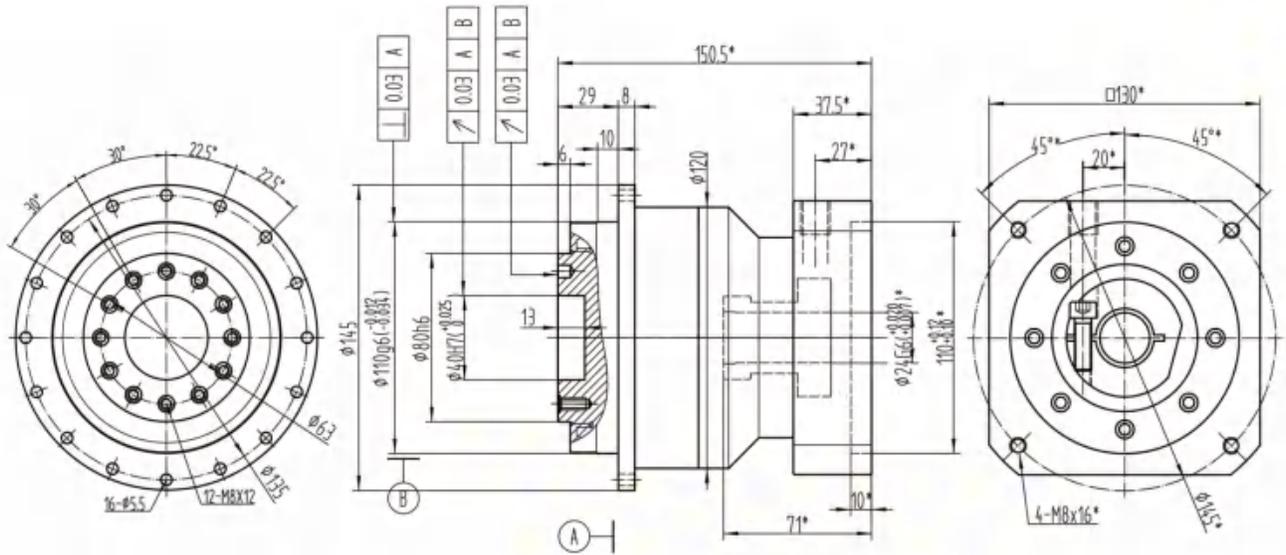


MAFQ-090-L2



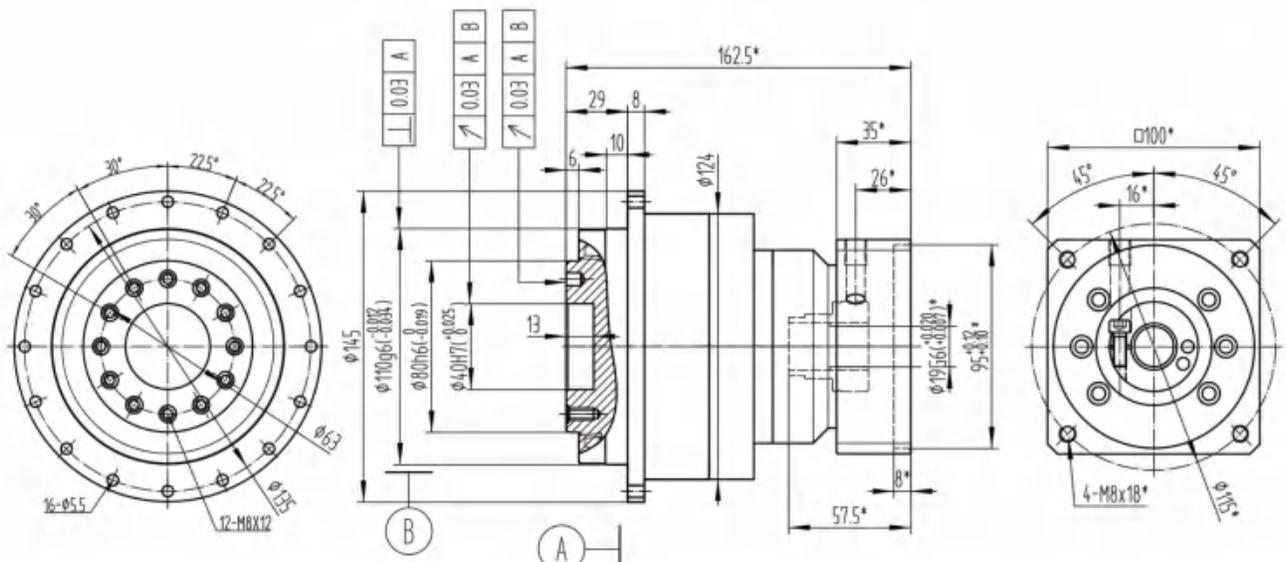
\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸；代表可根据客户需求定制产品，如有需要，请联系我们！

## MAFQ-110-L1



MAFQ

## MAFQ-110-L2

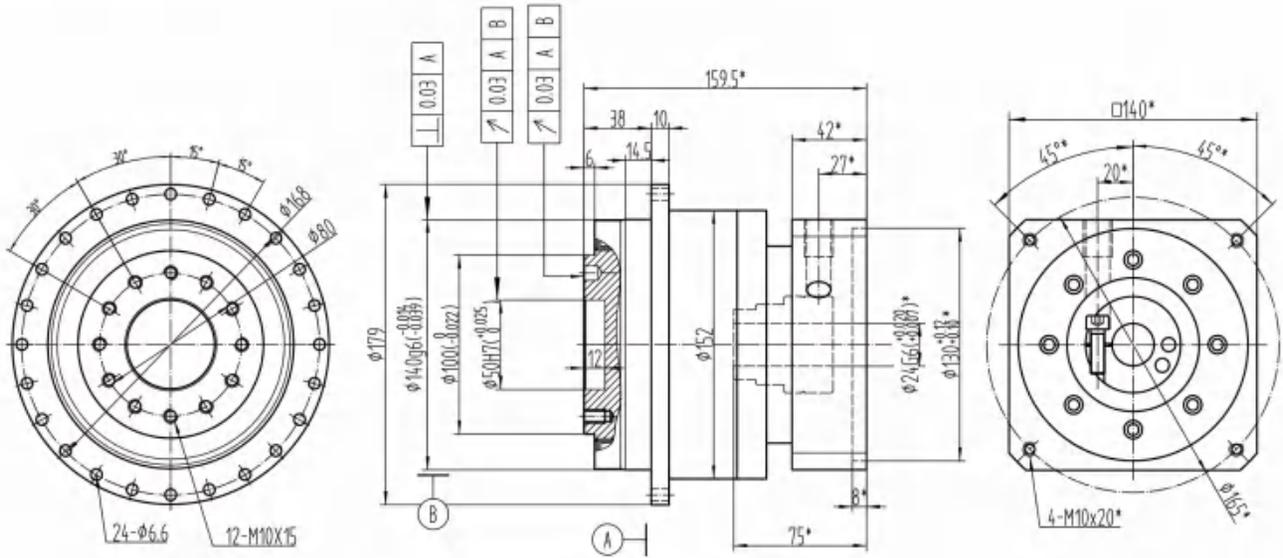


\*Dimensions based on servo-motor, please contact us for custom made order.  
 注有\*尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

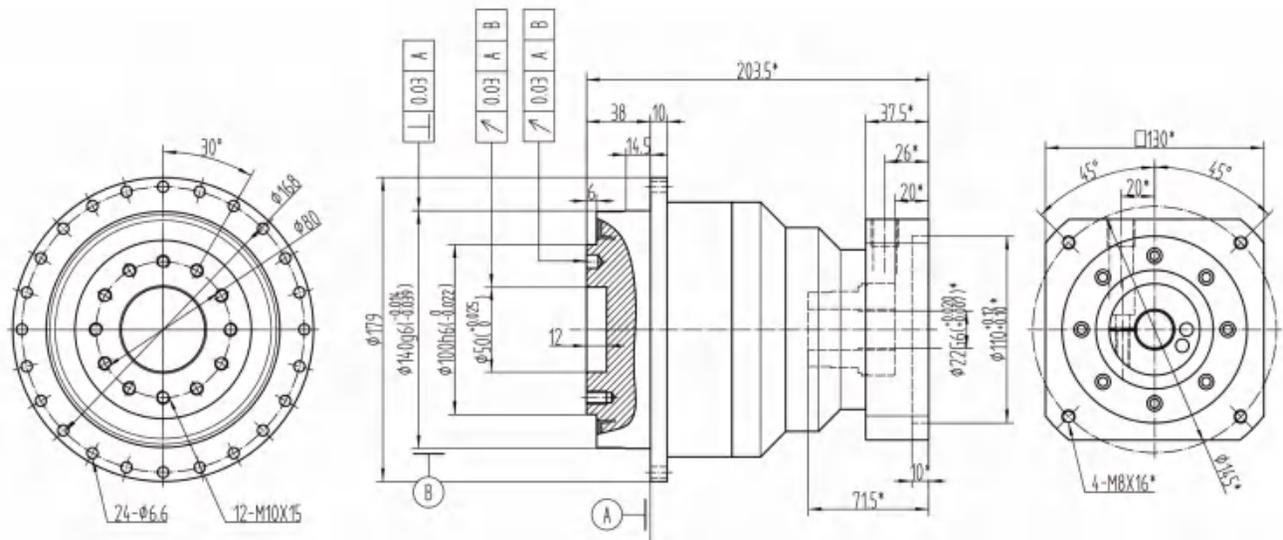
Drawing / Size

MAFQ-140-L1

MAFQ



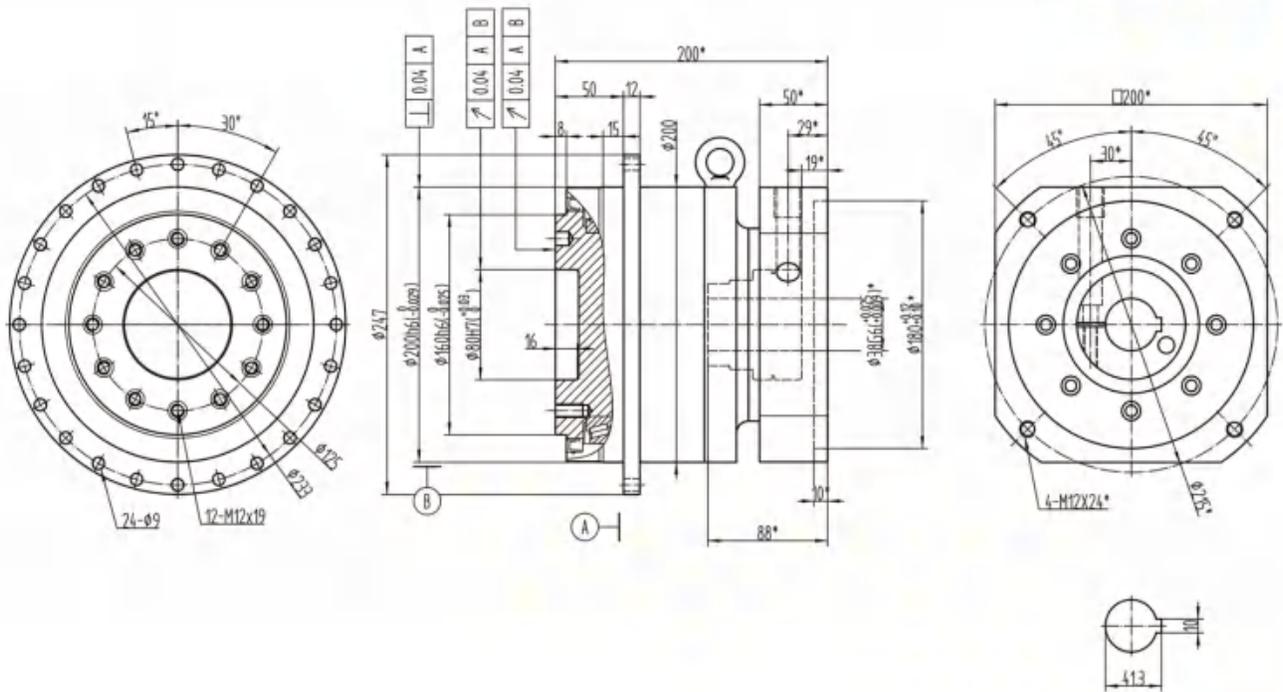
MAFQ-140-L2



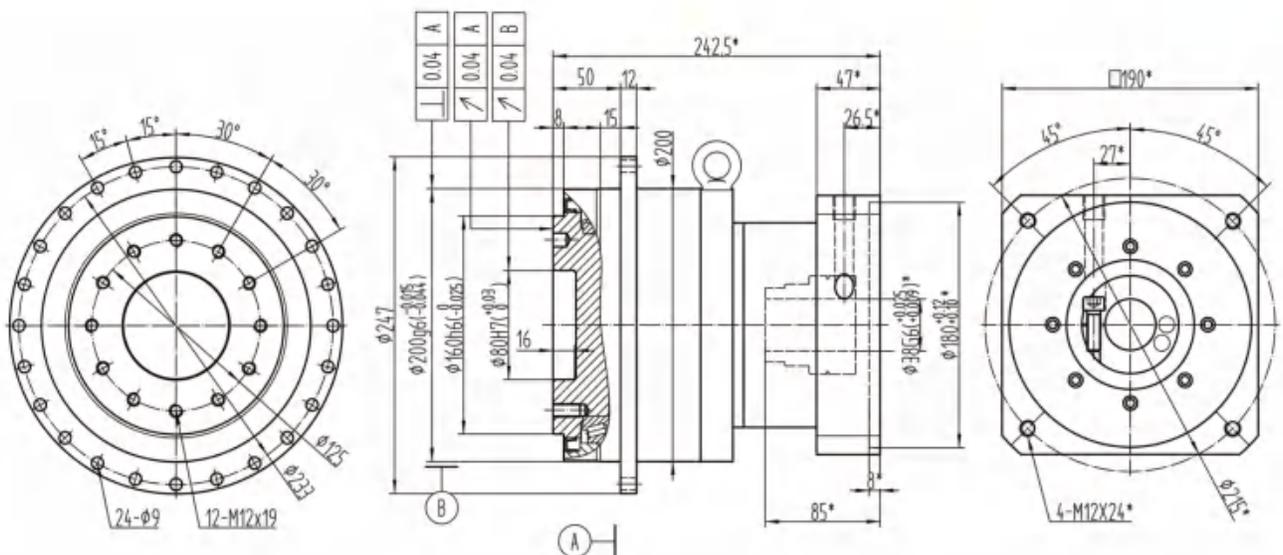
\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸；代表可根据客户需求定制产品，如有需要，请联系我们！

## Drawing / Size

### MAFQ-200-L1



### MAFQ-200-L2



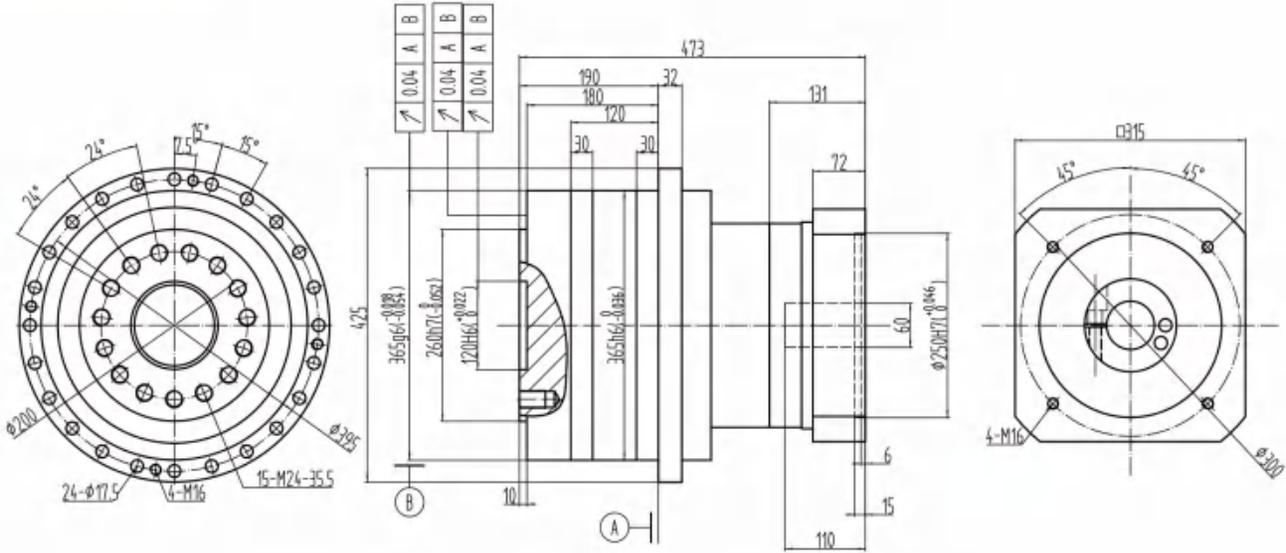
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！



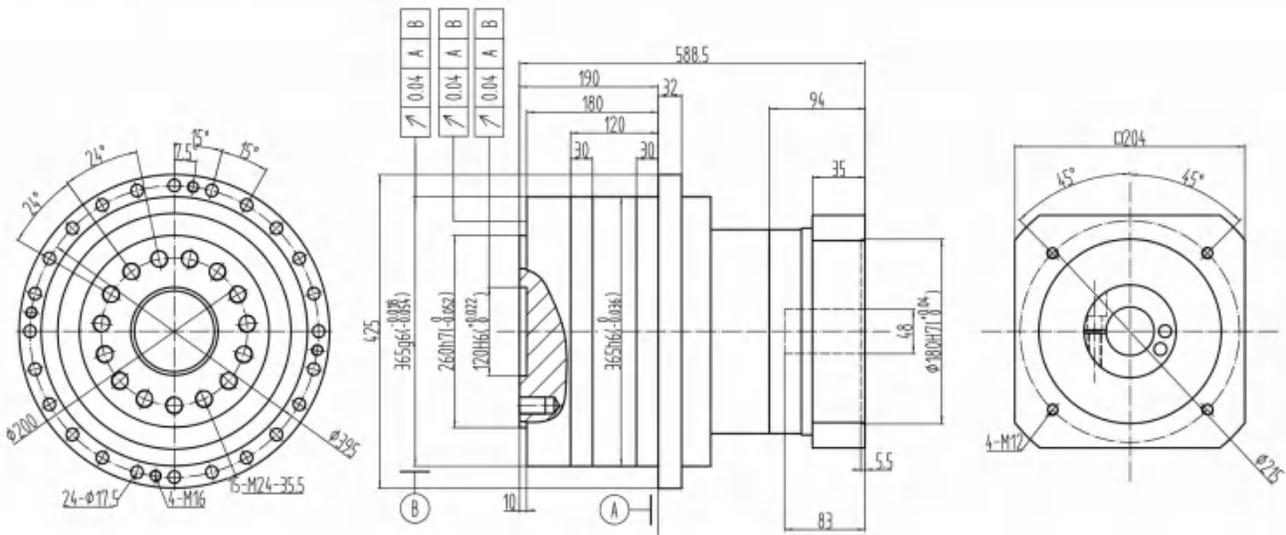


Drawing / Size

MAFQ-365-L1

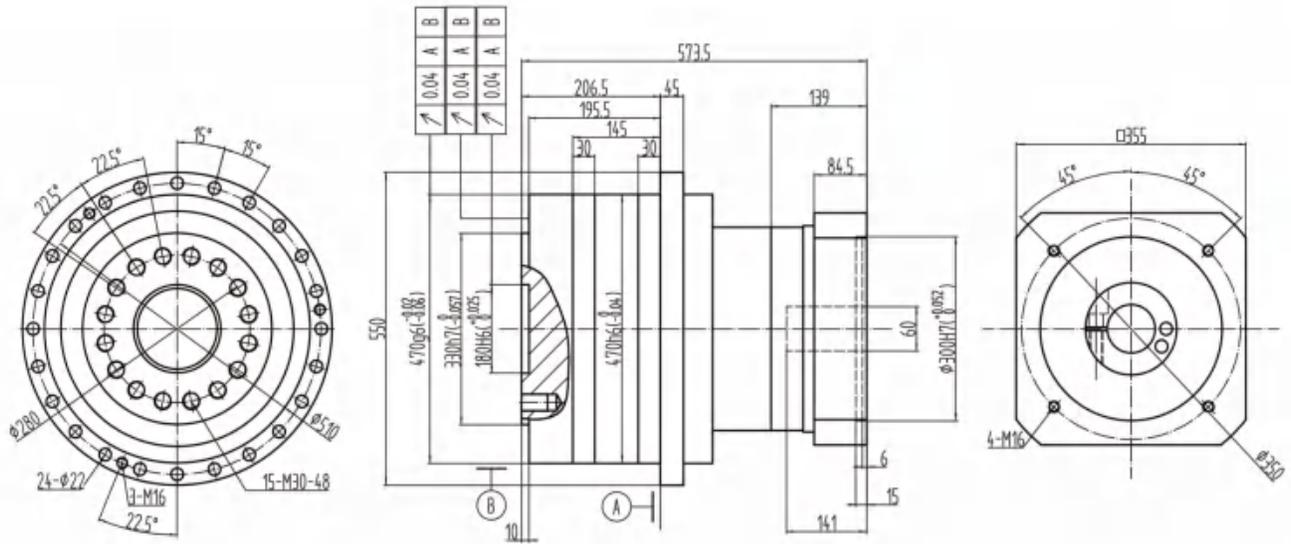


MAFQ-365-L2



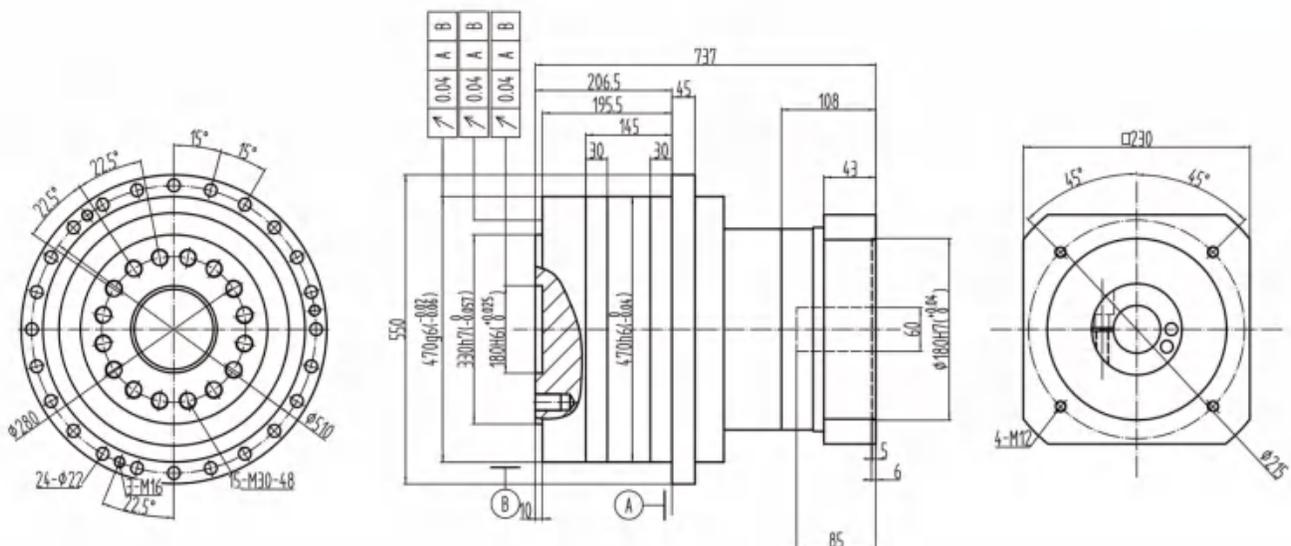
\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

## MAFQ-470-L1



MAFQ

## MAFQ-470-L2



\* Dimensions based on servo-motor, please contact us for custom made order.  
 注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Performance table

MAFQ

| MAFQ-90     |      |                 |                   |                 |                   |                |                         |                    |                     |                   |     |                |        |                             |      |             |     |
|-------------|------|-----------------|-------------------|-----------------|-------------------|----------------|-------------------------|--------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i    | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>1</sub> | C <sub>21</sub>         | F <sub>2RMax</sub> | F <sub>2SMMax</sub> | J <sub>1</sub>    | η   | U <sub>1</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |      | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | N <sub>vis</sub> arcmin | N                  | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 5.5  | 100             | 2xT <sub>2N</sub> | 2800            | 6000              | ≤3             | 41                      | 3100               | 1650                | 0.47              | ≥95 | >20000         | -15-45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤63 |
|             | 22   | 120             |                   |                 |                   |                |                         |                    |                     |                   |     |                |        |                             |      |             |     |
| II<br>STAGE | 27.5 | 120             |                   |                 |                   |                |                         |                    |                     |                   |     |                |        |                             |      |             |     |
|             | 38.5 | 130             |                   |                 |                   | ≤5             |                         |                    |                     | 0.13              | ≥90 |                |        |                             |      |             |     |
|             | 55   | 130             |                   |                 |                   |                |                         |                    |                     |                   |     |                |        |                             |      |             |     |

| MAFQ-110    |      |                 |                   |                 |                   |                |                         |                     |                     |                   |     |                |        |                             |      |             |     |
|-------------|------|-----------------|-------------------|-----------------|-------------------|----------------|-------------------------|---------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i    | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>1</sub> | C <sub>21</sub>         | F <sub>2RMMax</sub> | F <sub>2SMMax</sub> | J <sub>1</sub>    | η   | U <sub>1</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |      | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | N <sub>vis</sub> arcmin | N                   | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 5.5  | 280             | 2xT <sub>2N</sub> | 2300            | 6000              | ≤3             | 101                     | 7800                | 4000                | 2.71              | ≥95 | >20000         | -15-45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤64 |
|             | 22   | 290             |                   |                 |                   |                |                         |                     |                     |                   |     |                |        |                             |      |             |     |
| II<br>STAGE | 27.5 | 300             |                   |                 |                   |                |                         |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 38.5 | 320             |                   |                 |                   | ≤5             |                         |                     |                     | 0.44              | ≥90 |                |        |                             |      |             |     |
|             | 55   | 320             |                   |                 |                   |                |                         |                     |                     |                   |     |                |        |                             |      |             |     |

| MAFQ-140    |     |                 |                   |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>t</sub> | C <sub>2t</sub> | F <sub>2BMax</sub> | F <sub>2DMax</sub> | J <sub>1</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |  |  |  |  |  |  |  |  |  |  |  |  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | 1/100mm         | N                  | N                  | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |  |  |  |  |  |  |  |  |  |  |  |  |
| I<br>STAGE  | 55  | 500             | 2xT <sub>2N</sub> | 2000            | 5000              | ≤3             | 216             | 12000              | 8100               | 7.42               | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤65 |  |  |  |  |  |  |  |  |  |  |  |  |
|             | 22  | 650             |                   |                 |                   | ≤5             |                 |                    |                    | 2.71               | ≥90 |                |        |                             |      |             |     |  |  |  |  |  |  |  |  |  |  |  |  |
| II<br>STAGE | 275 | 650             |                   |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |  |  |  |  |  |  |  |  |  |  |  |  |
|             | 385 | 680             |                   |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |  |  |  |  |  |  |  |  |  |  |  |  |
|             | 55  | 680             |                   |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |  |  |  |  |  |  |  |  |  |  |  |  |

MAFQ

| MAFQ-200    |     |                 |                   |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>t</sub> | C <sub>2t</sub> | F <sub>2BMax</sub> | F <sub>2DMax</sub> | J <sub>1</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |  |  |  |  |  |  |  |  |  |  |  |  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | 1/100mm         | N                  | N                  | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |  |  |  |  |  |  |  |  |  |  |  |  |
| I<br>STAGE  | 55  | 1400            | 2xT <sub>2N</sub> | 2000            | 4000              | ≤3             | 621             | 18520              | 15500              | 234                | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤60 |  |  |  |  |  |  |  |  |  |  |  |  |
|             | 22  | 1700            |                   |                 |                   | ≤5             |                 |                    |                    | 218                | ≥90 |                |        |                             |      |             |     |  |  |  |  |  |  |  |  |  |  |  |  |
| II<br>STAGE | 275 | 1700            |                   |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |  |  |  |  |  |  |  |  |  |  |  |  |
|             | 385 | 1700            |                   |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |  |  |  |  |  |  |  |  |  |  |  |  |
|             | 55  | 1700            |                   |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |  |  |  |  |  |  |  |  |  |  |  |  |

# Performance table

MAFQ

| MAFQ-255    |      |                 |                   |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |  |
|-------------|------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|--|
| Symb.       | i    | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>2t</sub> | F <sub>255Max</sub> | F <sub>255Min</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |  |
| Unit        |      | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/turn         | N                   | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |  |
| I<br>STAGE  | 5.5  | 3800            | 2xT <sub>2N</sub> | 2000            | 3000              | ≤3             | 1191            | 27000               | 24000               | 170               | ≥95 | >20000         | -15-45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤68 |  |
|             | 22   | 3800            |                   |                 |                   | ≤5             |                 |                     |                     | 64                | ≥90 |                |        |                             |      |             |     |  |
| II<br>STAGE | 27.5 | 3800            |                   |                 |                   | ≤5             |                 |                     |                     | 64                | ≥90 |                |        |                             |      |             |     |  |
|             | 38.5 | 3800            |                   |                 |                   | ≤5             |                 |                     |                     | 64                | ≥90 |                |        |                             |      |             |     |  |
|             | 55   | 3800            |                   |                 |                   | ≤5             |                 |                     |                     | 64                | ≥90 |                |        |                             |      |             |     |  |

| MAFQ-285    |      |                 |                   |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |  |
|-------------|------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|--|
| Symb.       | i    | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>2t</sub> | F <sub>285Max</sub> | F <sub>285Min</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |  |
| Unit        |      | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/turn         | N                   | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |  |
| I<br>STAGE  | 5.5  | 6500            | 2xT <sub>2N</sub> | 1500            | 2500              | ≤3             | 1940            | 44000               | 37000               | 128.3             | ≥95 | >20000         | -15-45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤70 |  |
|             | 22   | 6500            |                   |                 |                   | ≤5             |                 |                     |                     | 64.3              | ≥90 |                |        |                             |      |             |     |  |
| II<br>STAGE | 27.5 | 6500            |                   |                 |                   | ≤5             |                 |                     |                     | 64.3              | ≥90 |                |        |                             |      |             |     |  |
|             | 38.5 | 6500            |                   |                 |                   | ≤5             |                 |                     |                     | 64.3              | ≥90 |                |        |                             |      |             |     |  |
|             | 55   | 6500            |                   |                 |                   | ≤5             |                 |                     |                     | 64.3              | ≥90 |                |        |                             |      |             |     |  |

| MAFQ-365    |      |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|-------------|------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i    | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>1</sub> | C <sub>2t</sub> | F <sub>2RMax</sub> | F <sub>2MMax</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |      | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | mm              | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 5.5  | 13000           |                   |                 |                   | ≤3             |                 |                    |                    |                   | ≥95 |                |        | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤72 |
|             | 22   | 13000           | 2xT <sub>2N</sub> | 1500            | 2000              | ≤5             | 3515            | 55000              | 49000              | 242.2             | ≥90 | >20000         | -15~45 |                             |      |             |     |
| II<br>STAGE | 27.5 | 13000           |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 38.5 | 13000           |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 55   | 13000           |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |

MAFQ

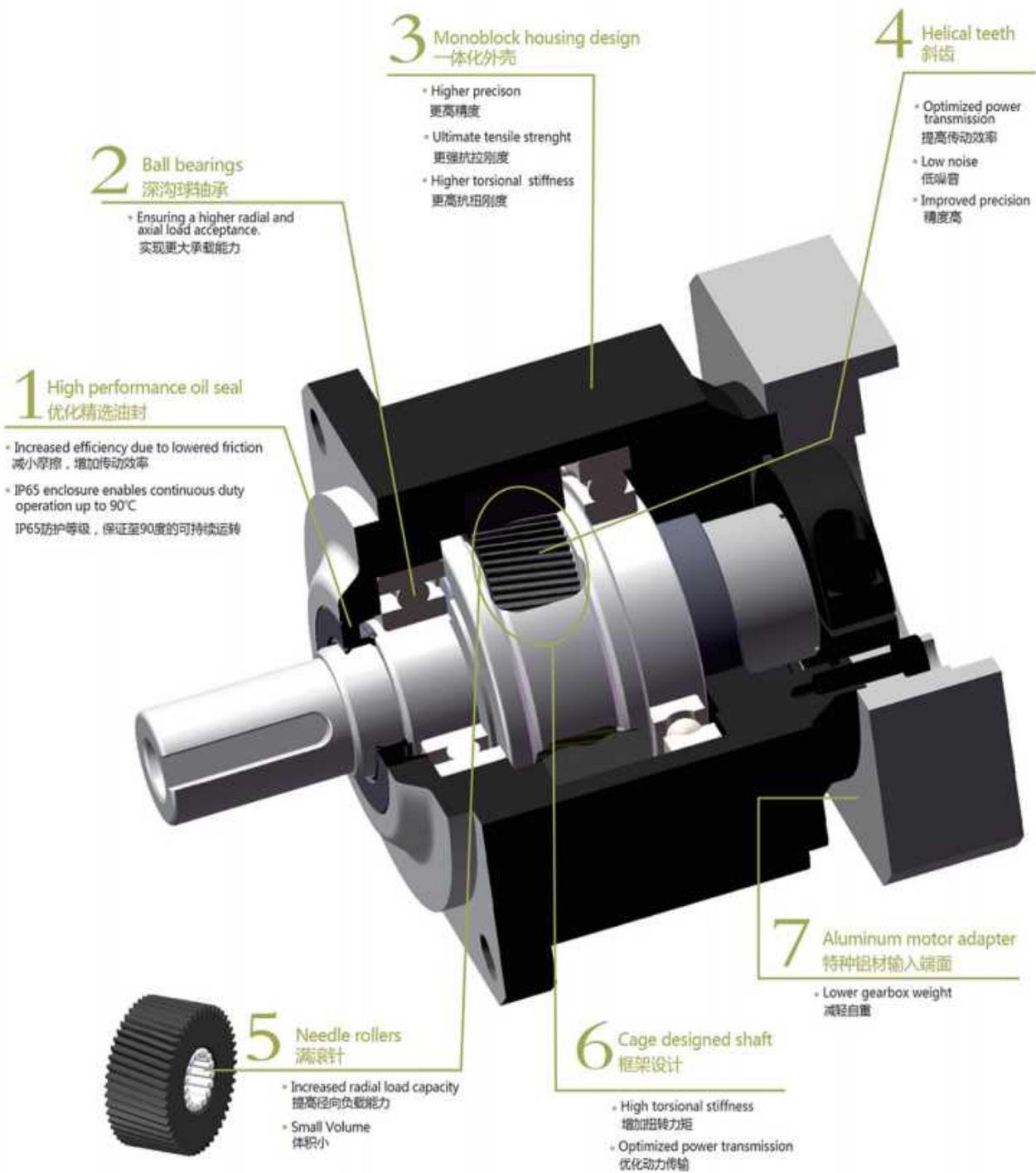
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|-------------|------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i    | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>1</sub> | C <sub>2t</sub> | F <sub>2RMax</sub> | F <sub>2MMax</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |      | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | mm              | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 5.5  | 25000           |                   |                 |                   | ≤3             |                 |                    |                    |                   | ≥95 |                |        | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤75 |
|             | 22   | 25000           | 2xT <sub>2N</sub> | 1200            | 2000              | ≤5             | 6153            | 66000              | 54000              | 451.7             | ≥90 | >20000         | -15~45 |                             |      |             |     |
| II<br>STAGE | 27.5 | 25000           |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 38.5 | 25000           |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 55   | 25000           |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |

**MPVB SERIES**



此标准系列可以在中等精度要求的不同领域使用。

Standard series for servo applications that do not require optimum precision.



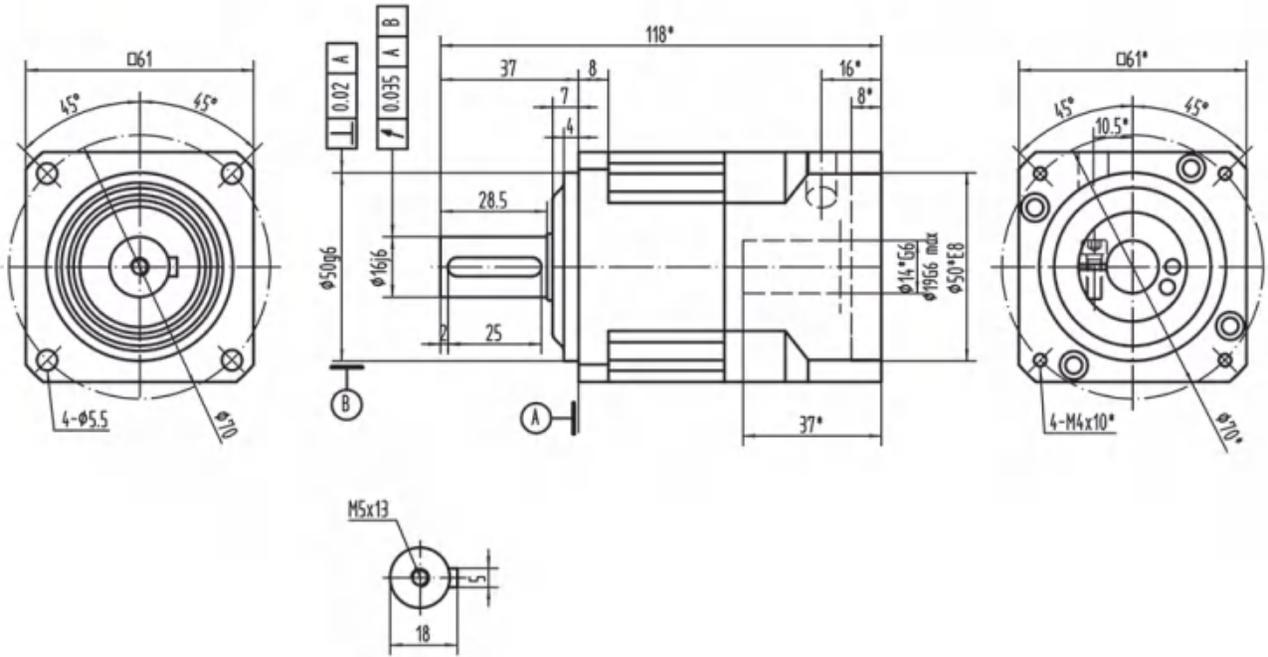
造型数据：  
Selection data:

|               |        |
|---------------|--------|
| 扭矩 ( Nm )     | 25-360 |
| 速比            | 3-100  |
| 背隙 ( arcmin ) | 3-5    |
| 最大工作温度 ( °C ) | 90     |
| 噪音 ( dB )     | 67-70  |

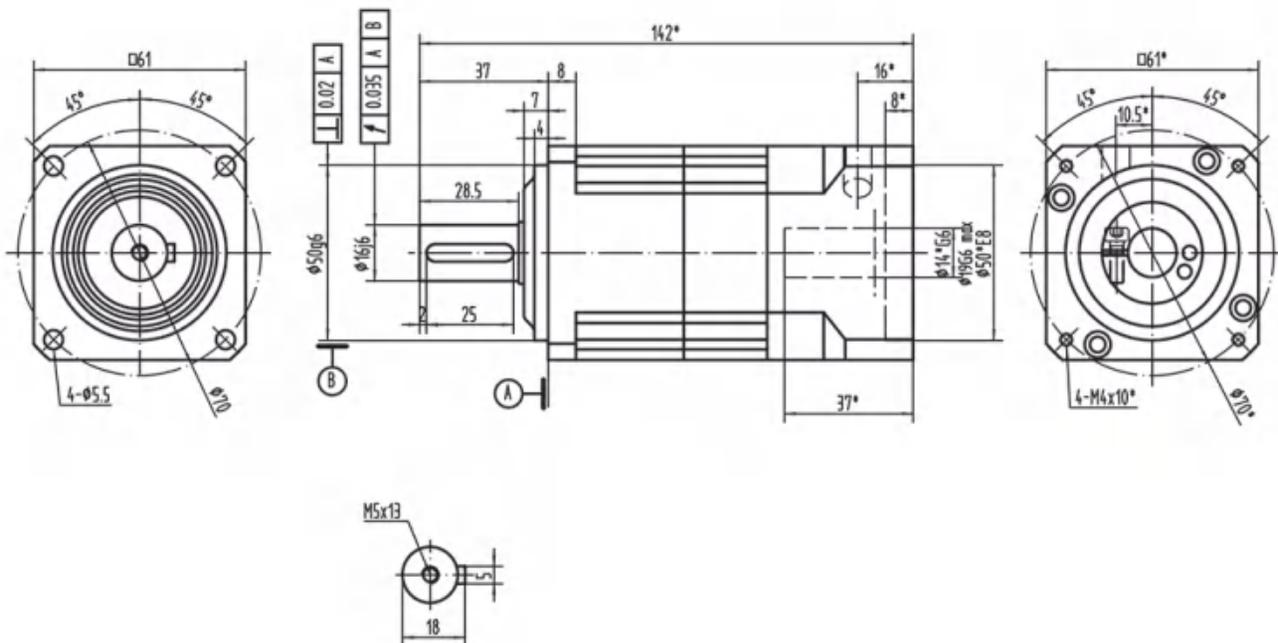
|                                |        |
|--------------------------------|--------|
| Nominal output torque ( Nm )   | 25-360 |
| Reduction ratio                | 3-100  |
| Backlash ( arcmin )            | 3-5    |
| Max.working temperature ( °C ) | 90     |
| Noise ( dB )                   | 67-70  |

Drawing / Size

MPVB-060A-L1



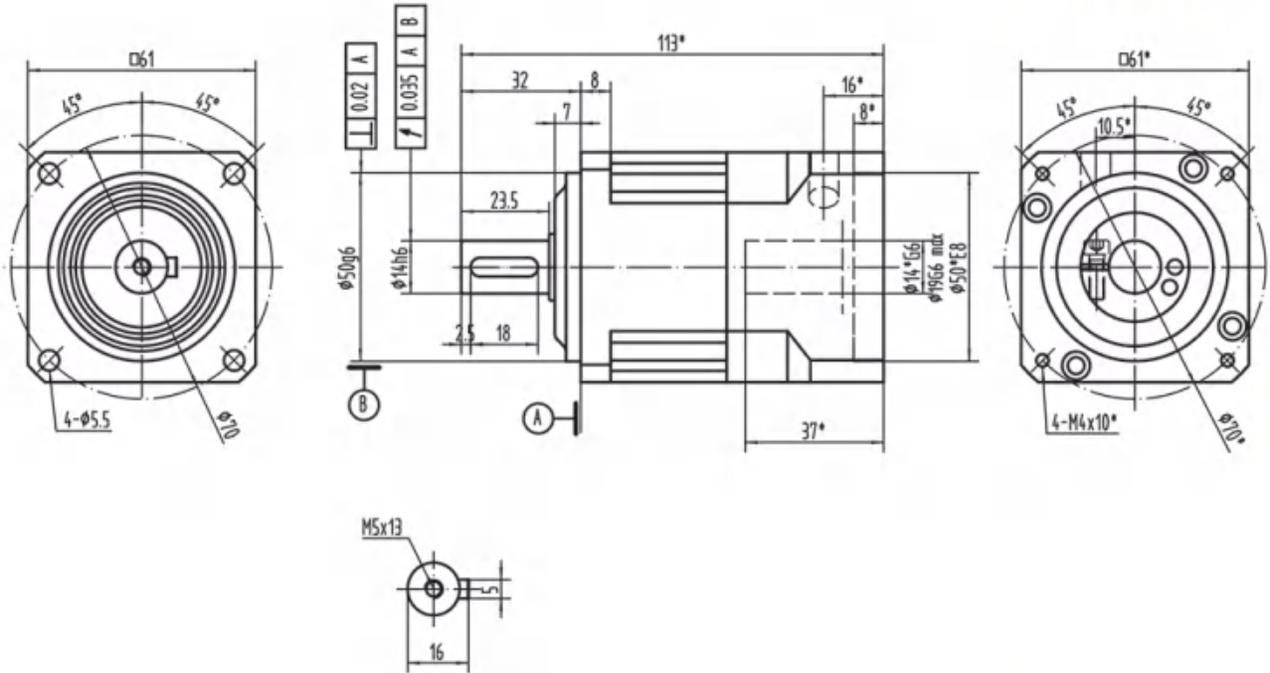
MPVB-060A-L2



\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

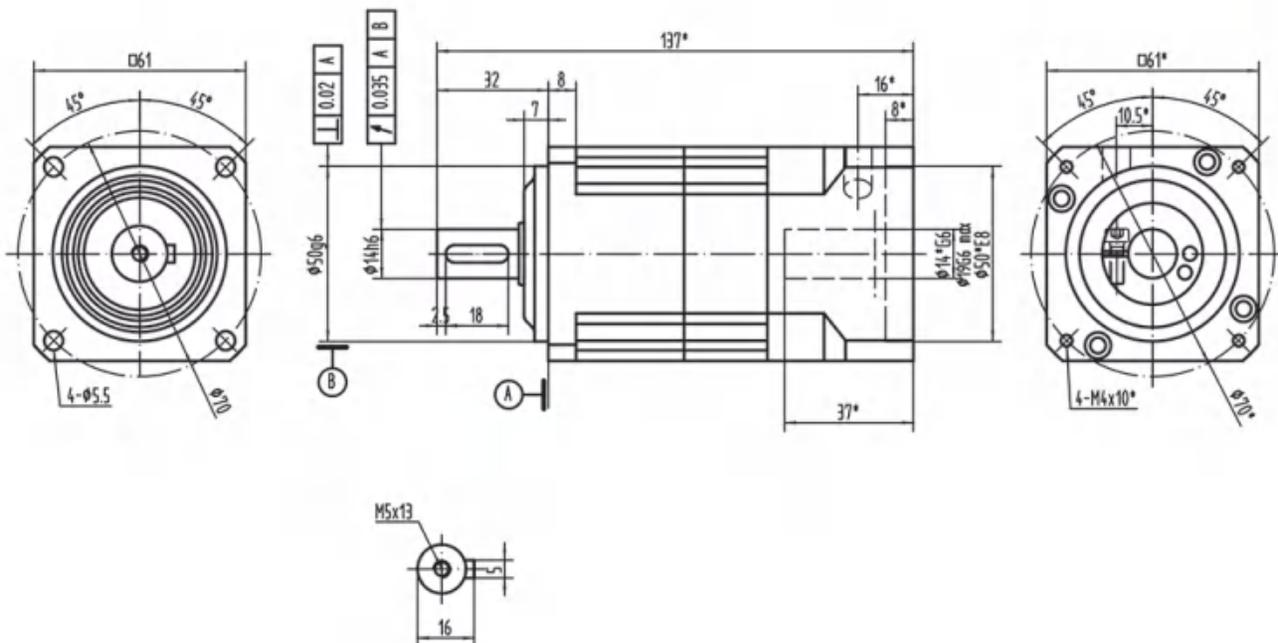
Drawing / Size

MPVB-060B-L1



MPVB

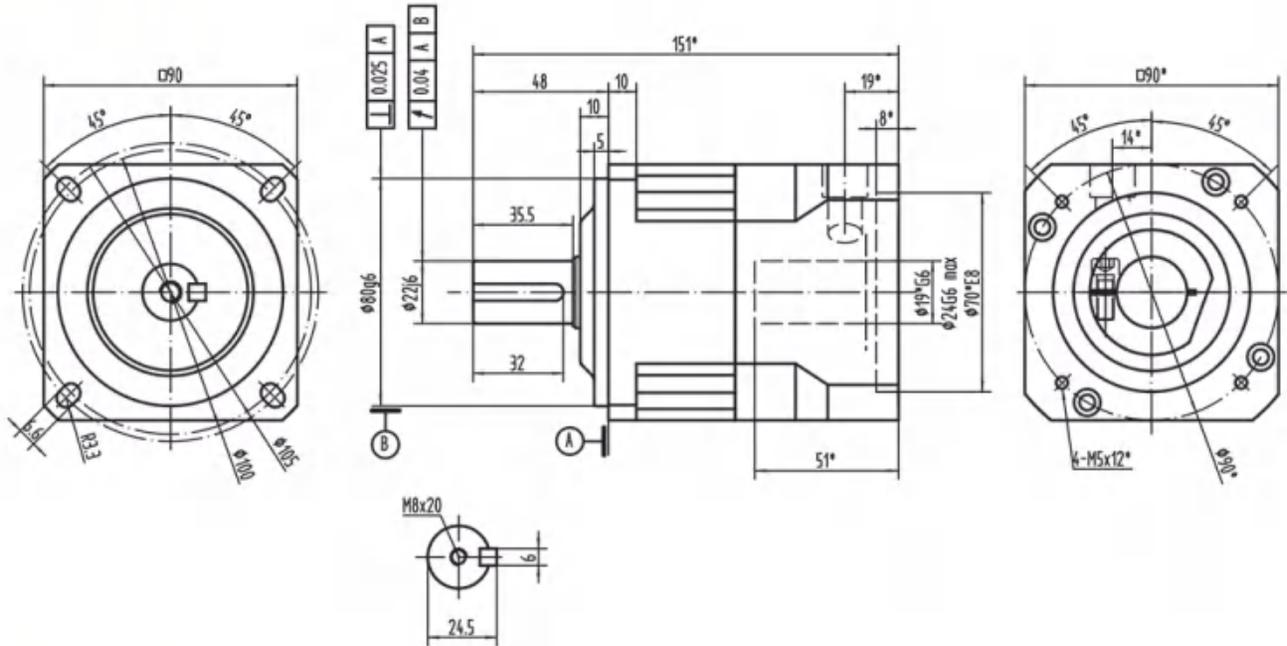
MPVB-060B-L2



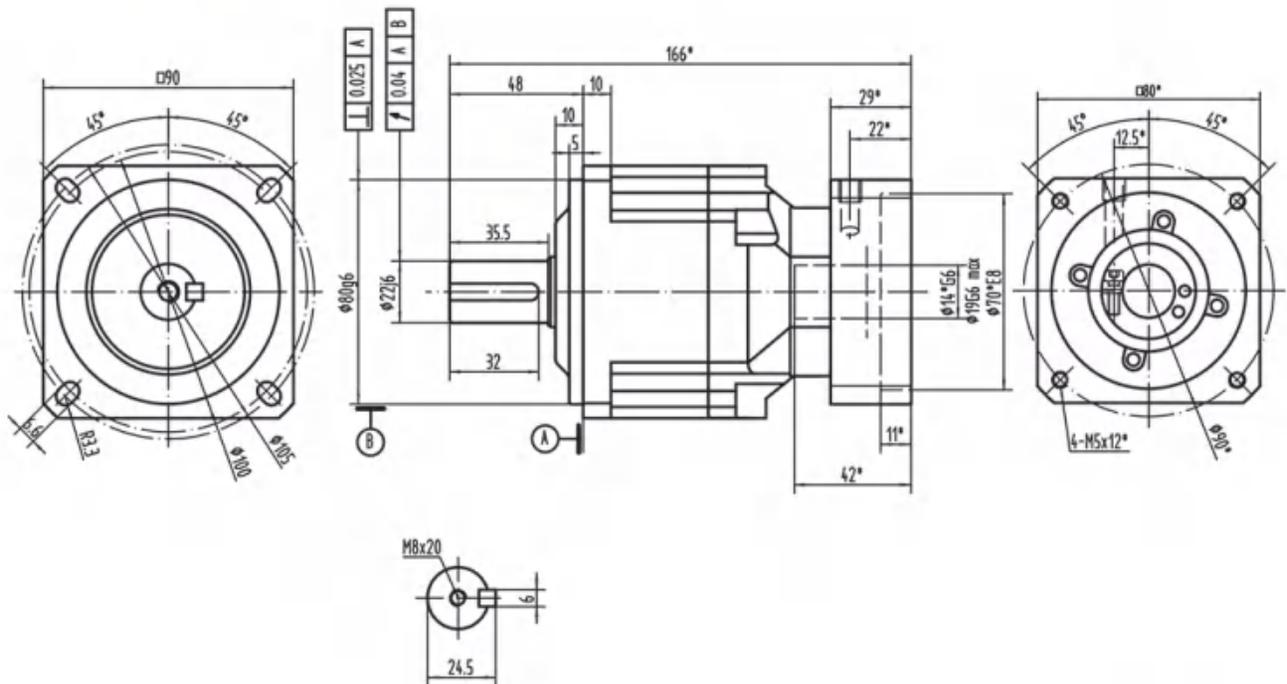
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Drawing / Size

## MPVB-090A-L1



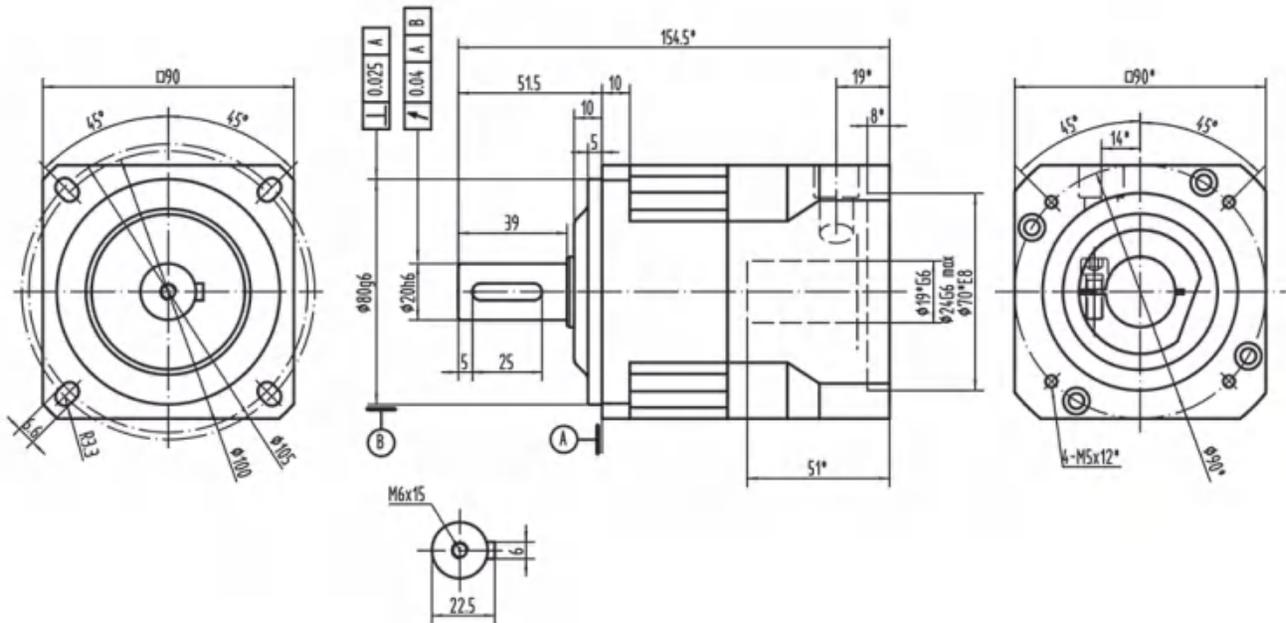
## MPVB-090A-L2



\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

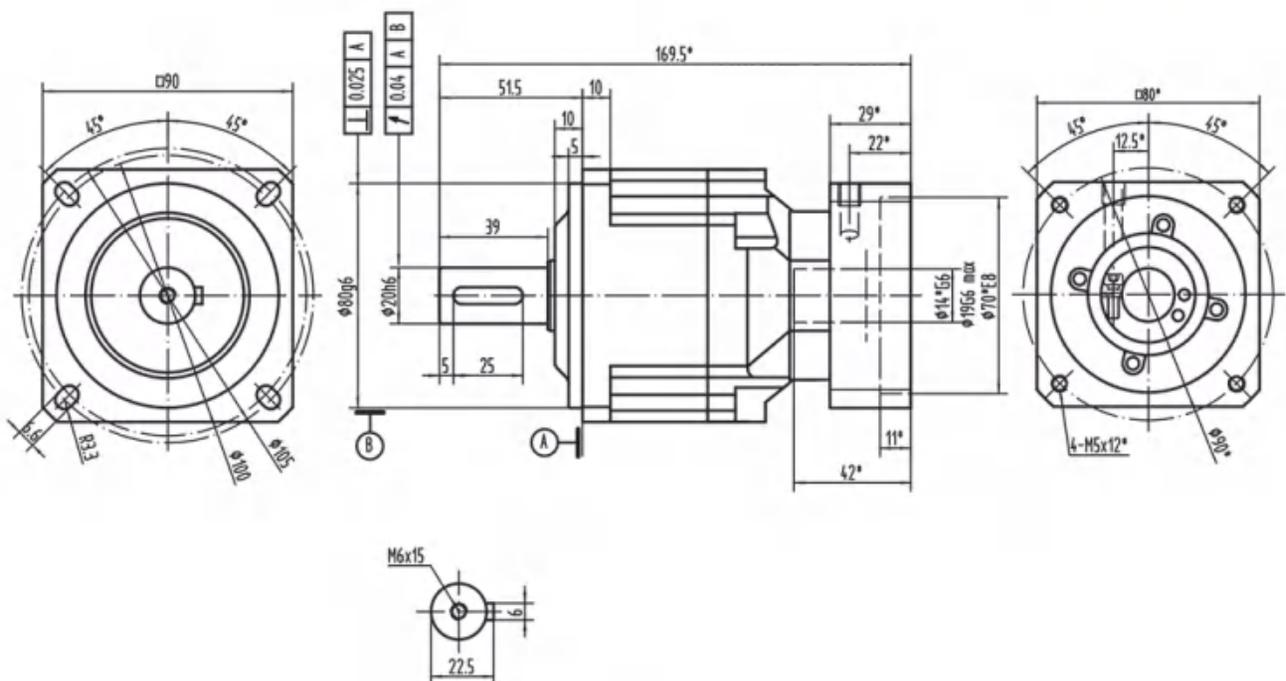
# Drawing / Size

## MPVB-090B-L1



MPVB

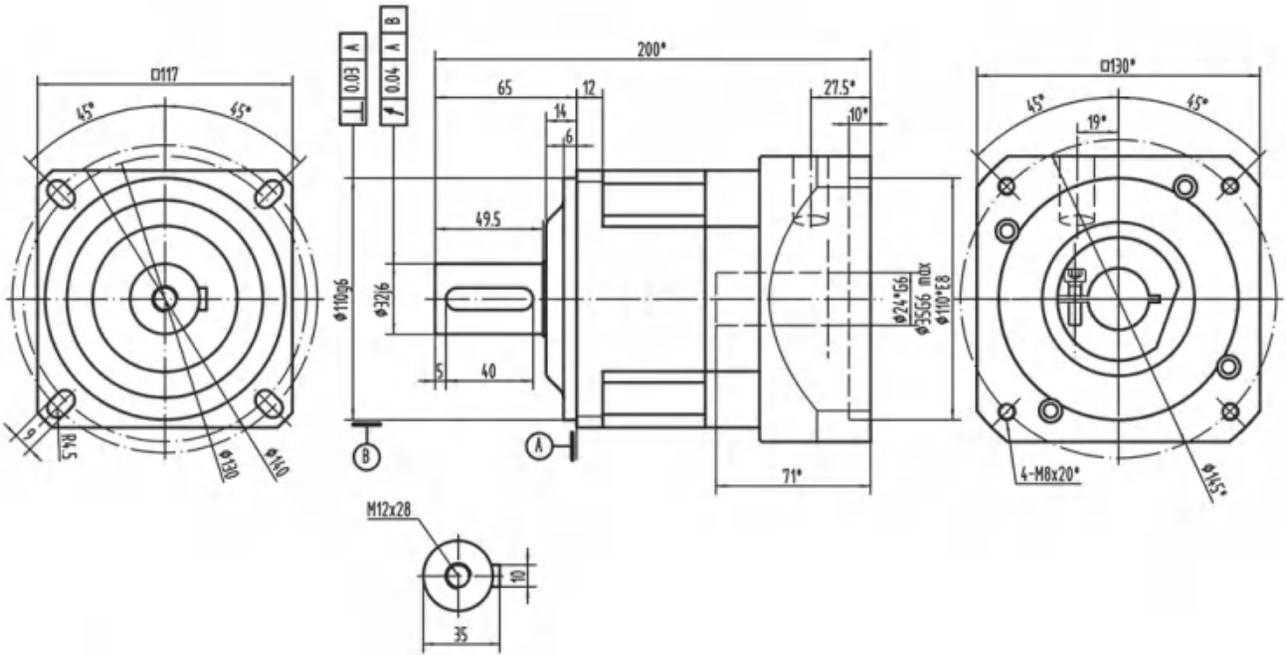
## MPVB-090B-L2



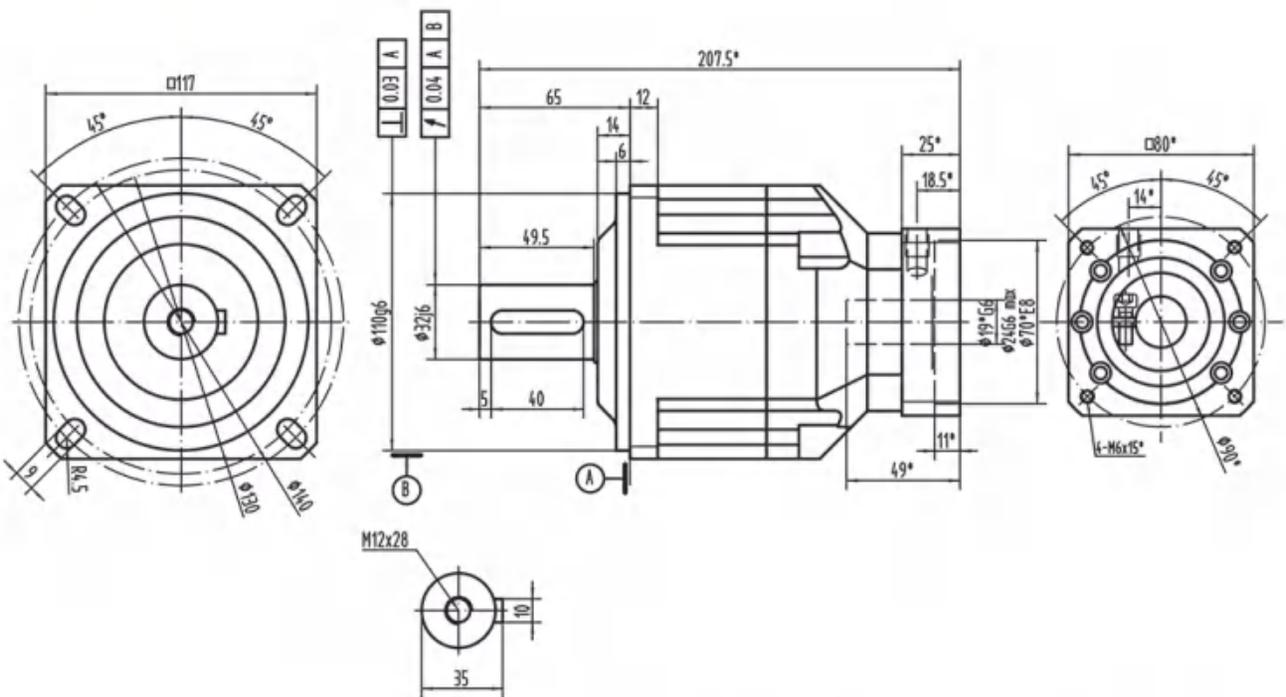
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Drawing / Size

## MPVB-115A-L1



## MPVB-115A-L2



\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！



# Performance table

MPVB

| MPVB-060    |     |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|------|------|----|---|------|------|------|-----|--------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>21</sub> | F <sub>2RMax</sub> | F <sub>2MMax</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | mm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
| I<br>STAGE  | 3   | 25              | 2×T <sub>2N</sub> | 3000            | 6000              | ≤3             | 7               | 1200               | 1050               | 0.16              | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤67 |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|             | 4   | 40              |                   |                 |                   |                |                 |                    |                    | 0.14              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|             | 5   | 40              |                   |                 |                   |                |                 |                    |                    | 0.13              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|             | 6   | 40              |                   |                 |                   |                |                 |                    |                    | 0.13              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|             | 7   | 40              |                   |                 |                   |                |                 |                    |                    | 0.13              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|             | 8   | 40              |                   |                 |                   |                |                 |                    |                    | 0.13              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|             | 9   | 25              |                   |                 |                   |                |                 |                    |                    | 0.13              |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
| 10          | 25  | 0.13            |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
| II<br>STAGE | 15  | 35              |                   |                 |                   |                |                 |                    |                    | 2×T <sub>2N</sub> |     |                |        |                             |      |             |     | 3000 | 6000 | ≤5 | 7 | 1200 | 1050 | 0.13 | ≥90 | >20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤67 |
|             | 20  | 50              |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      | 0.13 |     |        |        |                             |      |             |     |
|             | 35  | 50              | 0.13              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|             | 40  | 50              | 0.13              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|             | 50  | 50              | 0.13              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|             | 80  | 50              | 0.13              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|             | 100 | 35              | 0.13              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |

| MPVB-090    |     |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|------|------|----|----|------|------|------|-----|--------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>21</sub> | F <sub>2RMax</sub> | F <sub>2MMax</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | mm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| I<br>STAGE  | 3   | 80              | 2×T <sub>2N</sub> | 3000            | 6000              | ≤3             | 14              | 2450               | 2200               | 0.61              | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤68 |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|             | 4   | 120             |                   |                 |                   |                |                 |                    |                    | 0.48              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|             | 5   | 125             |                   |                 |                   |                |                 |                    |                    | 0.47              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|             | 6   | 125             |                   |                 |                   |                |                 |                    |                    | 0.47              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|             | 7   | 125             |                   |                 |                   |                |                 |                    |                    | 0.45              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|             | 8   | 125             |                   |                 |                   |                |                 |                    |                    | 0.45              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|             | 9   | 80              |                   |                 |                   |                |                 |                    |                    | 0.42              |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| 10          | 80  | 0.4             |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| II<br>STAGE | 15  | 80              |                   |                 |                   |                |                 |                    |                    | 2×T <sub>2N</sub> |     |                |        |                             |      |             |     | 3000 | 6000 | ≤5 | 14 | 2450 | 2200 | 0.13 | ≥90 | >20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤68 |
|             | 20  | 125             |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      | 0.13 |     |        |        |                             |      |             |     |
|             | 35  | 125             | 0.13              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|             | 40  | 125             | 0.13              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|             | 50  | 125             | 0.13              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|             | 80  | 125             | 0.13              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|             | 100 | 80              | 0.13              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |

## Performance table

| MPVB-115    |     |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |    |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Nom</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>i</sub> | C <sub>21</sub> | F <sub>2RMax</sub> | F <sub>2MMax</sub> | J <sub>i</sub>    | η   | U <sub>h</sub> | T      | Lub                         | PC   | MP          |     |    |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmm        | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     | dB |
| I<br>STAGE  | 3   | 160             | 2×T <sub>2N</sub> | 3000            | 6000              | ≤3             | 25              | 4400               | 4000               | 3.25              | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤70 |    |
|             | 4   | 220             |                   |                 |                   |                |                 |                    |                    | 2.74              |     |                |        |                             |      |             |     |    |
|             | 5   | 260             |                   |                 |                   |                |                 |                    |                    | 2.71              |     |                |        |                             |      |             |     |    |
|             | 6   | 260             |                   |                 |                   |                |                 |                    |                    | 2.71              |     |                |        |                             |      |             |     |    |
|             | 7   | 260             |                   |                 |                   |                |                 |                    |                    | 2.62              |     |                |        |                             |      |             |     |    |
|             | 8   | 260             |                   |                 |                   |                |                 |                    |                    | 2.6               |     |                |        |                             |      |             |     |    |
|             | 9   | 160             |                   |                 |                   |                |                 |                    |                    | 2.59              |     |                |        |                             |      |             |     |    |
|             | 10  | 160             |                   |                 |                   |                |                 |                    |                    | 2.57              |     |                |        |                             |      |             |     |    |
| II<br>STAGE | 15  | 220             | 2×T <sub>2N</sub> | 3000            | 6000              | ≤5             | 25              | 4400               | 4000               | 0.45              | ≥90 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤70 |    |
|             | 20  | 300             |                   |                 |                   |                |                 |                    |                    | 0.45              |     |                |        |                             |      |             |     |    |
|             | 35  | 350             |                   |                 |                   |                |                 |                    |                    | 0.45              |     |                |        |                             |      |             |     |    |
|             | 40  | 360             |                   |                 |                   |                |                 |                    |                    | 0.45              |     |                |        |                             |      |             |     |    |
|             | 50  | 350             |                   |                 |                   |                |                 |                    |                    | 0.4               |     |                |        |                             |      |             |     |    |
|             | 80  | 360             |                   |                 |                   |                |                 |                    |                    | 0.4               |     |                |        |                             |      |             |     |    |
|             | 100 | 220             |                   |                 |                   |                |                 |                    |                    | 0.4               |     |                |        |                             |      |             |     |    |

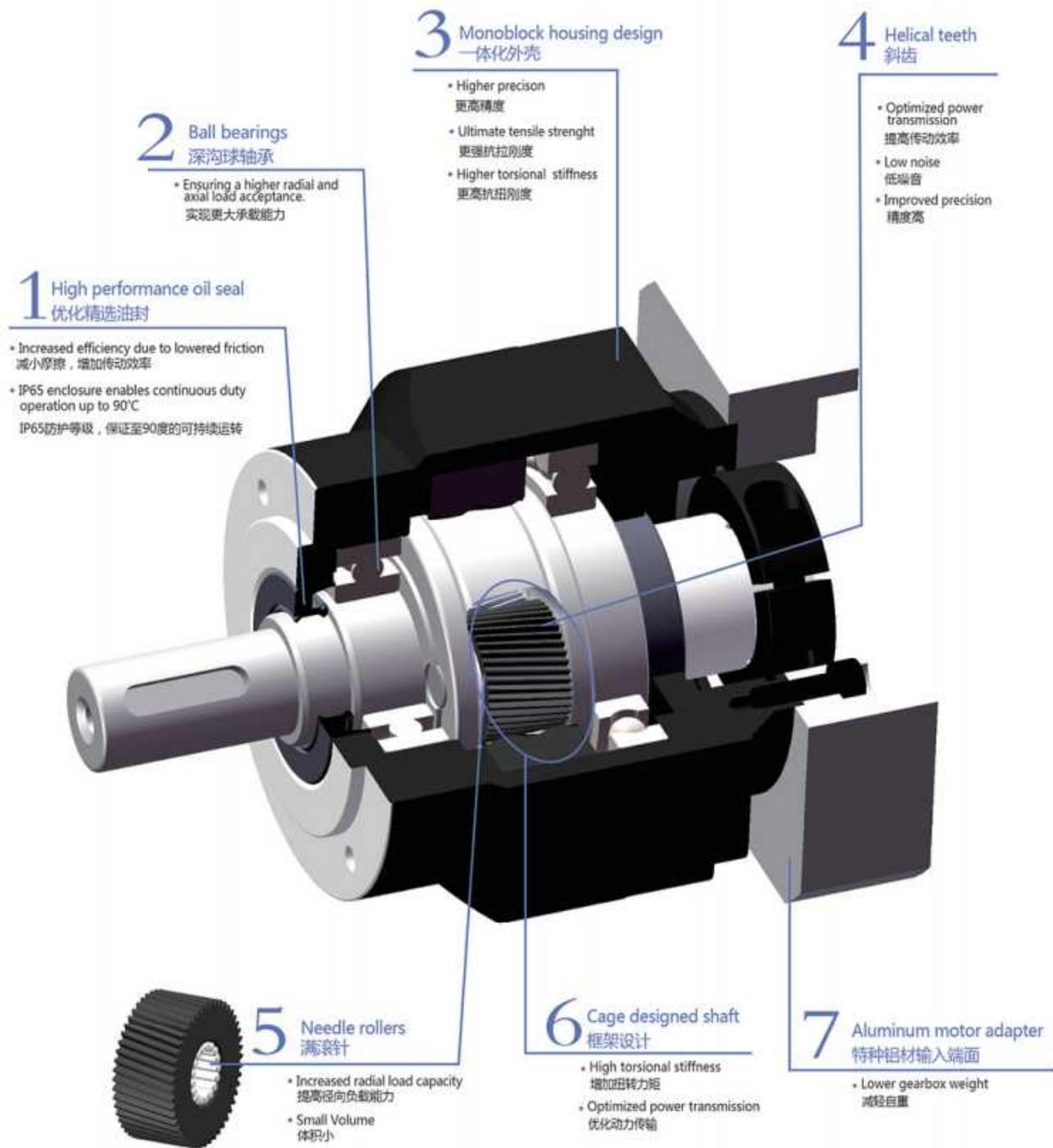
MPVB

**MPVE SERIES**



此标准系列可以在中等精度要求的不同领域使用。

Standard series for servo applications that do not require optimum precision.



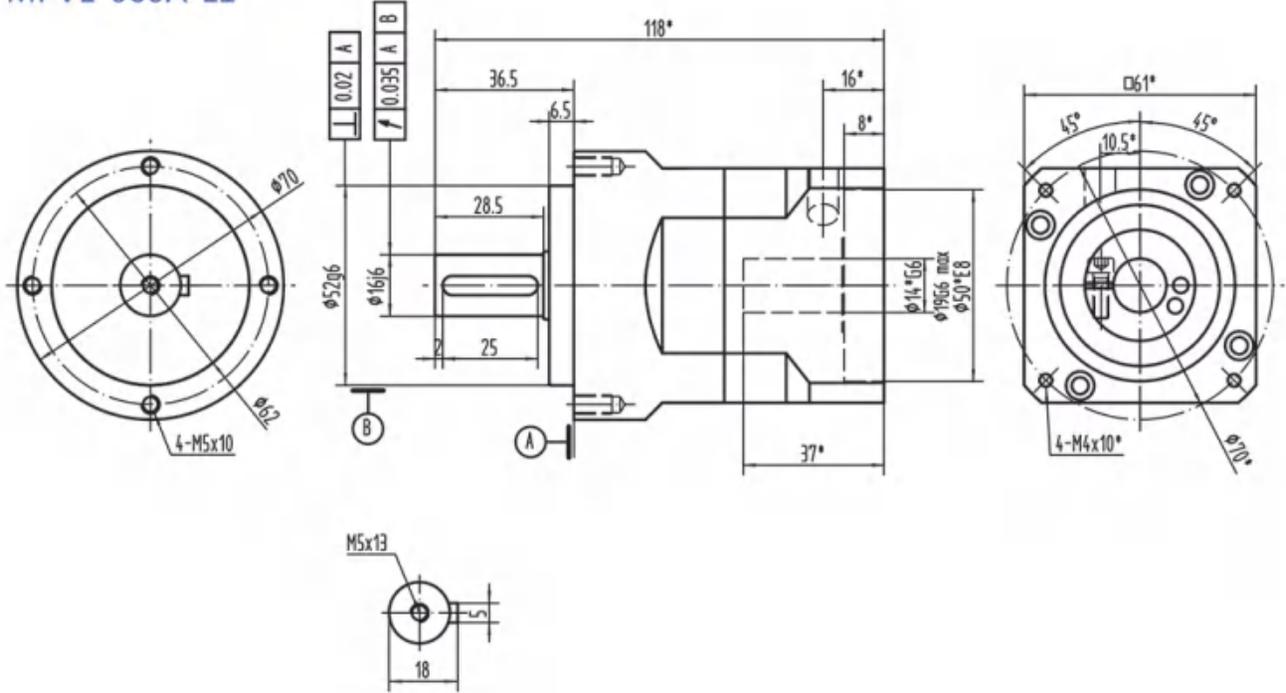
造型数据：  
Selection data:

|               |        |
|---------------|--------|
| 扭矩 ( Nm )     | 25-360 |
| 速比            | 3-100  |
| 背隙 ( arcmin ) | 3-5    |
| 最大工作温度 ( °C ) | 90     |
| 噪音 ( dB )     | 67-70  |

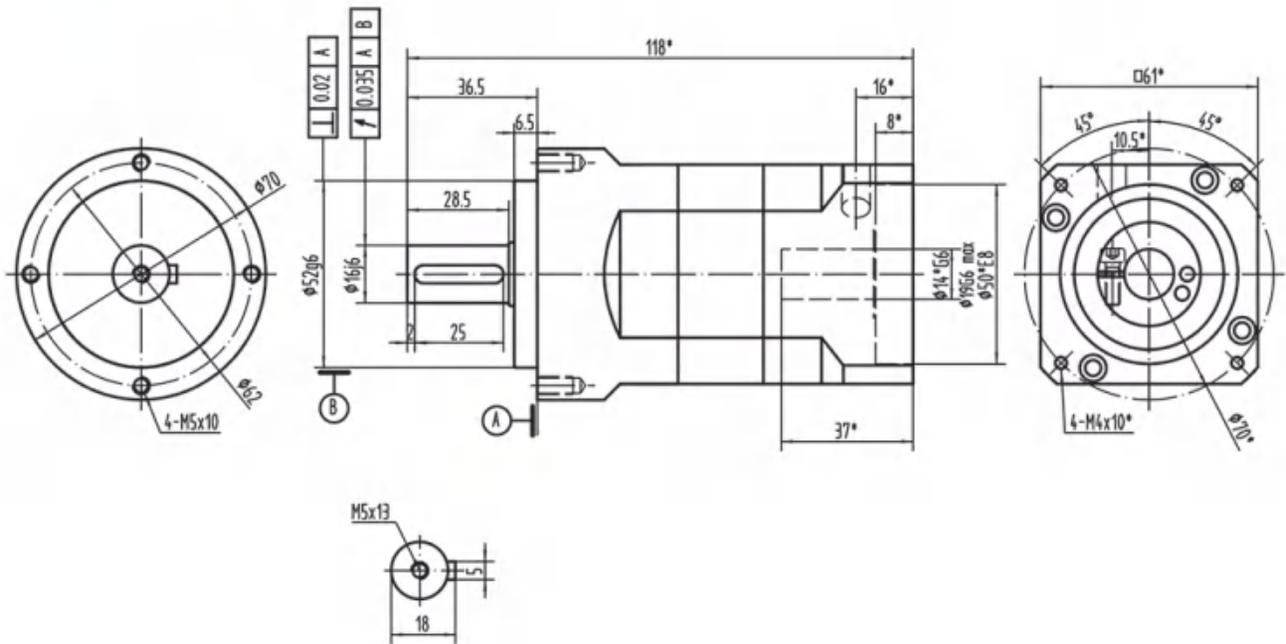
|                                |        |
|--------------------------------|--------|
| Nominal output torque ( Nm )   | 25-360 |
| Reduction ratio                | 3-100  |
| Backlash ( arcmin )            | 3-5    |
| Max.working temperature ( °C ) | 90     |
| Noise ( dB )                   | 67-70  |

# Drawing / Size

## MPVE-060A-L1



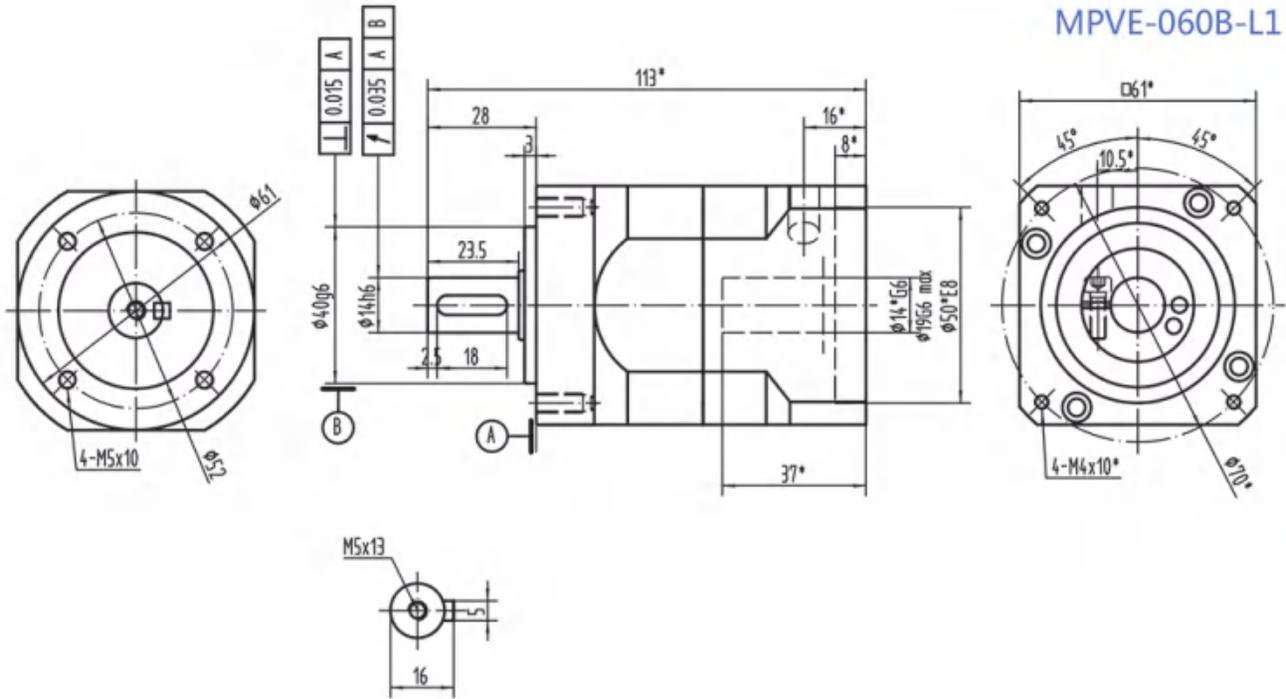
## MPVE-060A-L2



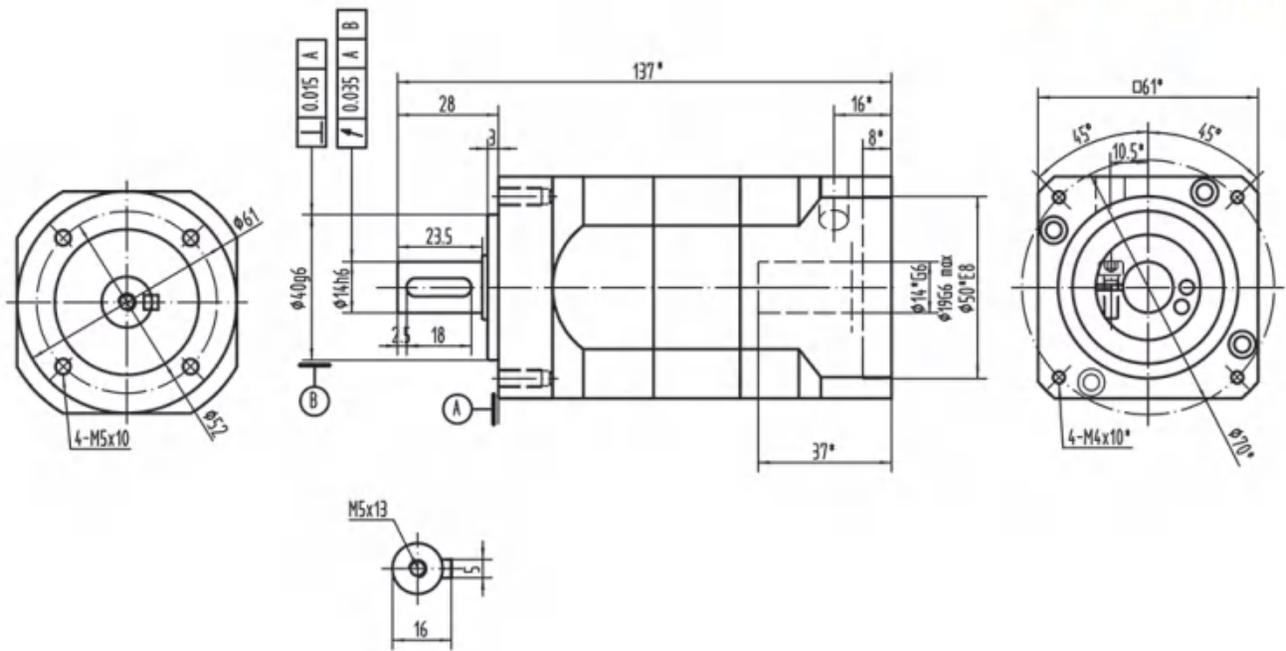
\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Drawing / Size

MPVE-060B-L1



MPVE-060B-L2

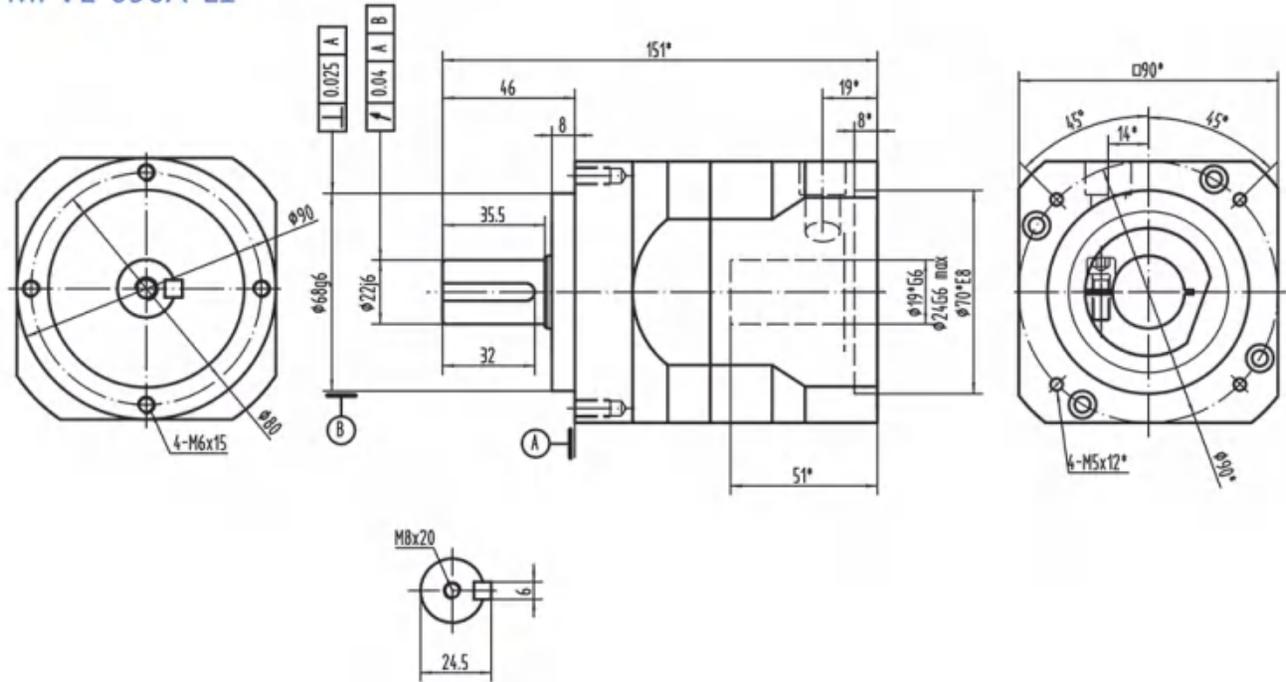


\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

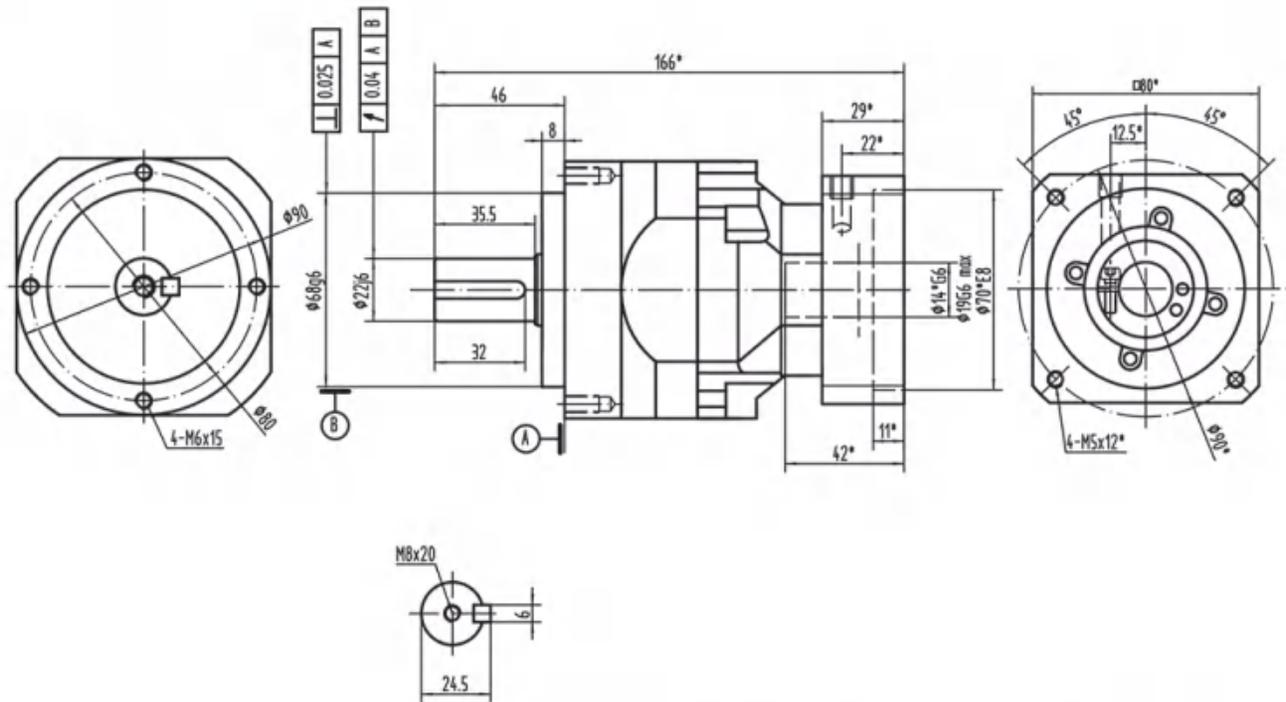
MPVE

# Drawing / Size

## MPVE-090A-L1



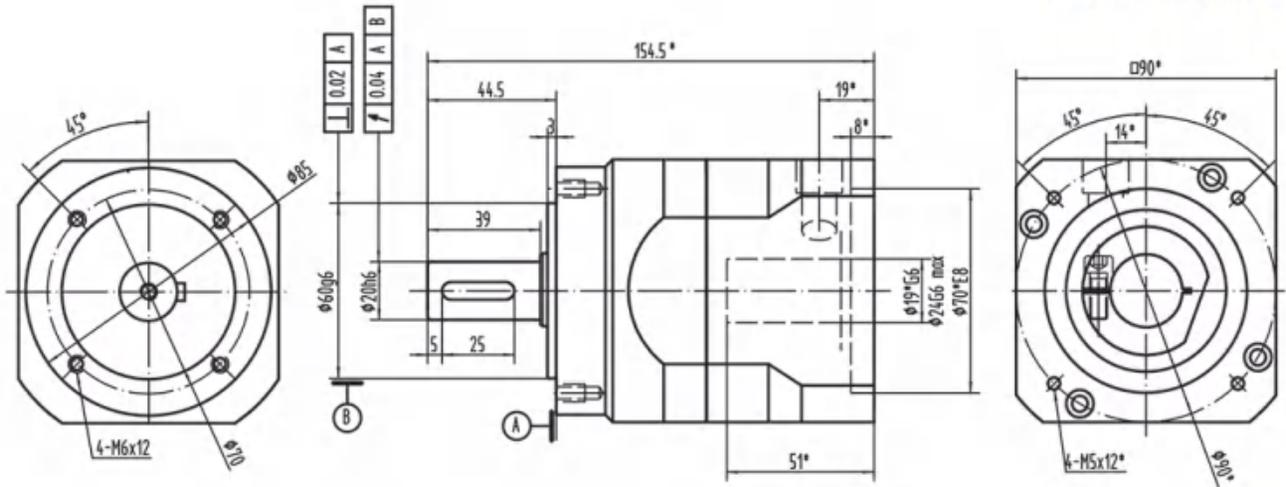
## MPVE-090A-L2



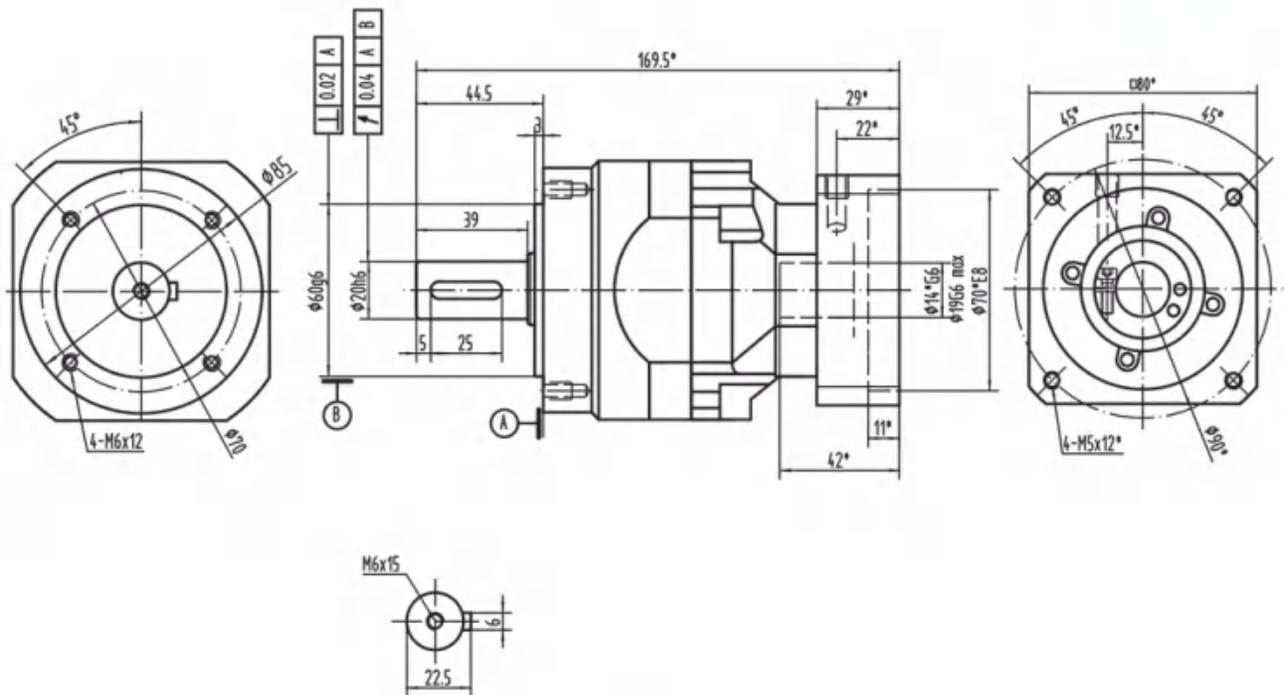
\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Drawing / Size

## MPVE-090B-L1



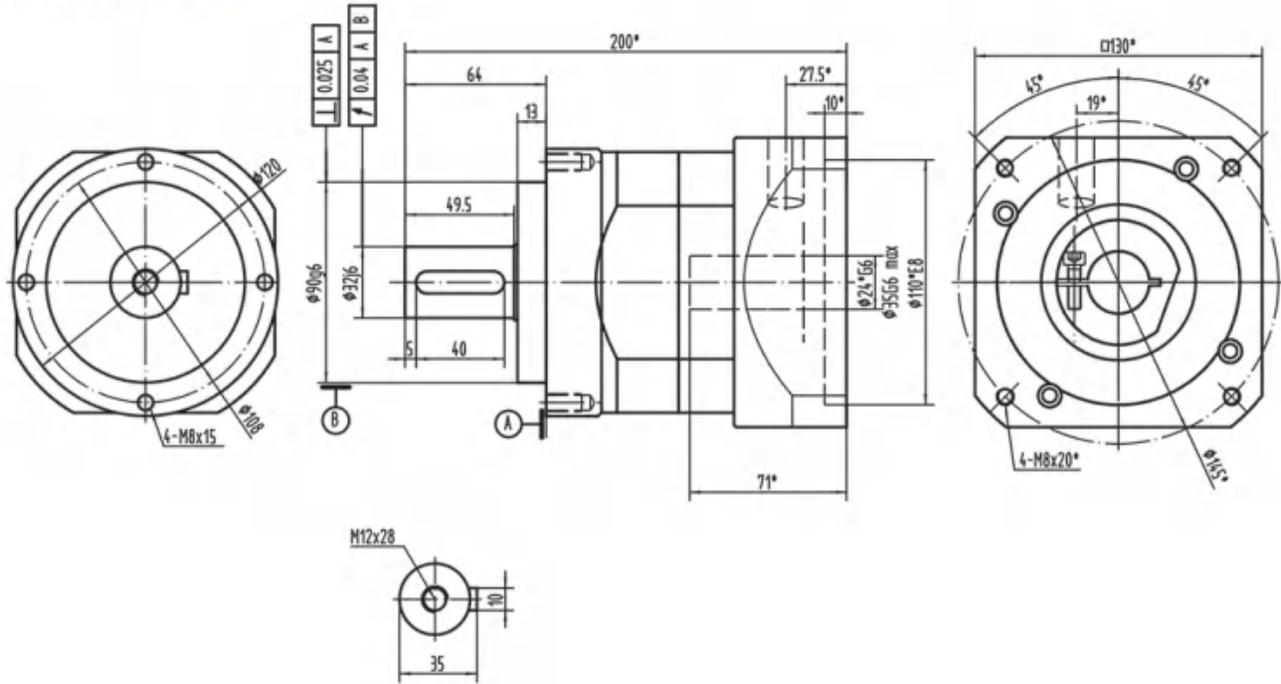
## MPVE-090B-L2



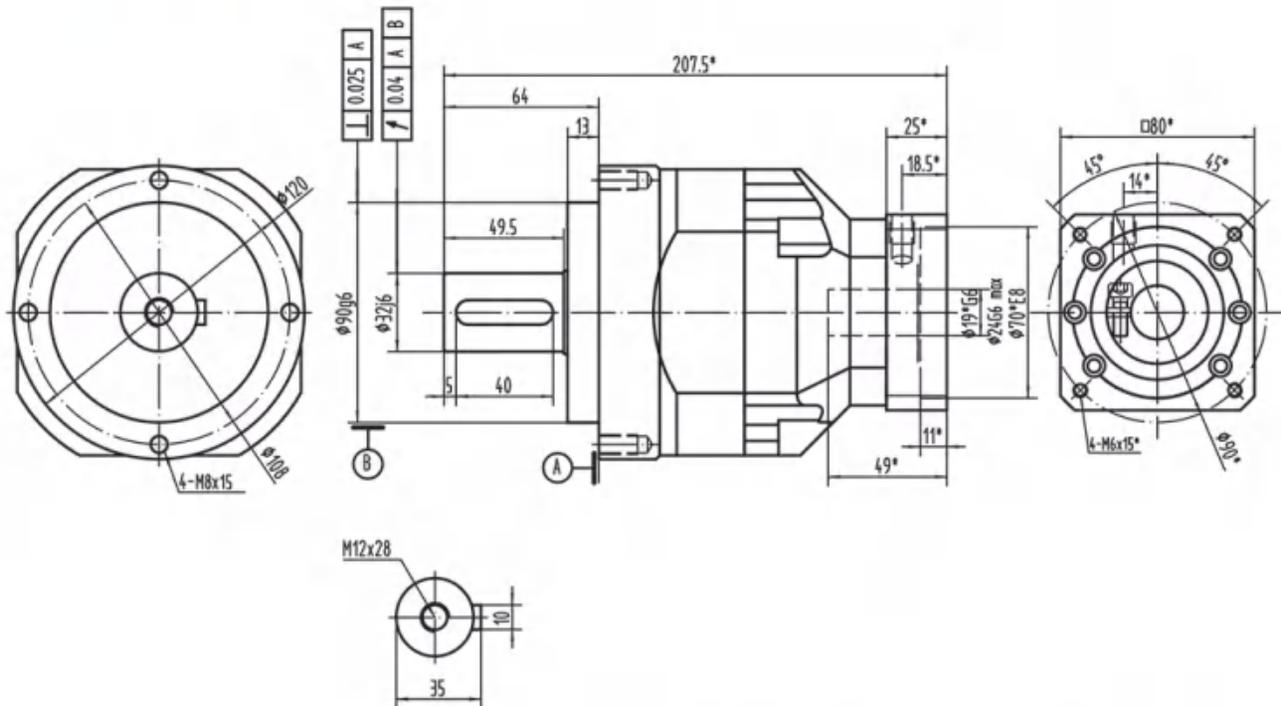
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Drawing / Size

## MPVE-115A-L1



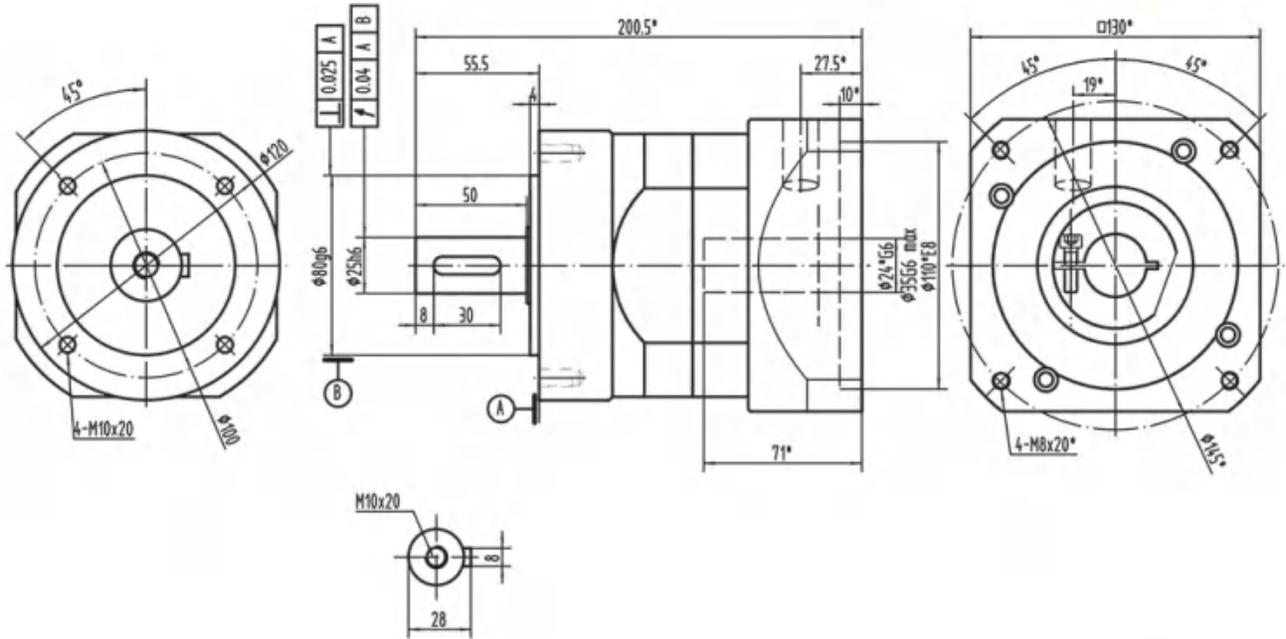
## MPVE-115A-L2



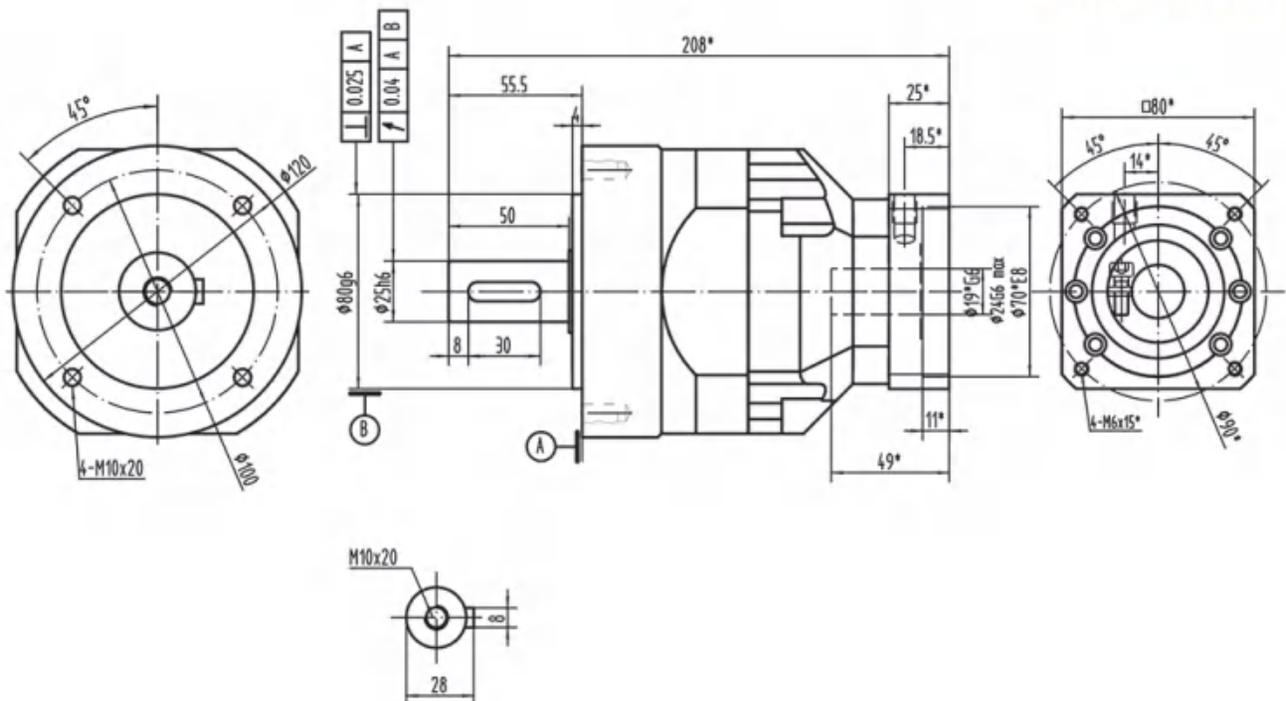
\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Drawing / Size

## MPVE-115B-L1



## MPVE-115B-L2



\*Dimensions based on servo-motor, please contact us for custom made order.  
 注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Performance table

MPVE

| MPVE-060    |     |                 |                   |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>1</sub> | C <sub>21</sub> | F <sub>2RMMax</sub> | F <sub>2MMMax</sub> | J <sub>2</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                   | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3   | 25              | 2×T <sub>2N</sub> | 3000            | 6000              | ≤3             | 7               | 1200                | 1050                | 0.16              | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤67 |
|             | 4   | 40              |                   |                 |                   |                |                 |                     |                     | 0.14              |     |                |        |                             |      |             |     |
|             | 5   | 40              |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |
|             | 6   | 40              |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |
|             | 7   | 40              |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |
|             | 8   | 40              |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |
|             | 9   | 25              |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |
|             | 10  | 25              |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |
| II<br>STAGE | 15  | 35              | 2×T <sub>2N</sub> | 3000            | 6000              | ≤5             | 7               | 1200                | 1050                | 0.13              | ≥90 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤67 |
|             | 20  | 50              |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |
|             | 35  | 50              |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |
|             | 40  | 50              |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |
|             | 50  | 50              |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |
|             | 80  | 50              |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |
|             | 100 | 35              |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |

| MPVE-090    |     |                 |                   |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>1</sub> | C <sub>21</sub> | F <sub>2RMMax</sub> | F <sub>2MMMax</sub> | J <sub>2</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                   | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3   | 80              | 2×T <sub>2N</sub> | 3000            | 6000              | ≤3             | 14              | 2450                | 2200                | 0.61              | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤68 |
|             | 4   | 120             |                   |                 |                   |                |                 |                     |                     | 0.48              |     |                |        |                             |      |             |     |
|             | 5   | 125             |                   |                 |                   |                |                 |                     |                     | 0.47              |     |                |        |                             |      |             |     |
|             | 6   | 125             |                   |                 |                   |                |                 |                     |                     | 0.47              |     |                |        |                             |      |             |     |
|             | 7   | 125             |                   |                 |                   |                |                 |                     |                     | 0.45              |     |                |        |                             |      |             |     |
|             | 8   | 125             |                   |                 |                   |                |                 |                     |                     | 0.45              |     |                |        |                             |      |             |     |
|             | 9   | 80              |                   |                 |                   |                |                 |                     |                     | 0.42              |     |                |        |                             |      |             |     |
|             | 10  | 80              |                   |                 |                   |                |                 |                     |                     | 0.4               |     |                |        |                             |      |             |     |
| II<br>STAGE | 15  | 80              | 2×T <sub>2N</sub> | 3000            | 6000              | ≤5             | 14              | 2450                | 2200                | 0.13              | ≥90 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤68 |
|             | 20  | 125             |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |
|             | 35  | 125             |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |
|             | 40  | 125             |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |
|             | 50  | 125             |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |
|             | 80  | 125             |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |
|             | 100 | 80              |                   |                 |                   |                |                 |                     |                     | 0.13              |     |                |        |                             |      |             |     |

## Performance table

| MPVE-115    |     |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |  |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|--|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Net</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>1</sub> | C <sub>21</sub> | F <sub>2RMax</sub> | F <sub>2MMax</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |  |
| I<br>STAGE  | 3   | 160             | 2×T <sub>2N</sub> | 3000            | 6000              | ≤3             | 25              | 4400               | 4000               | 3.25              | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤70 |  |
|             | 4   | 220             |                   |                 |                   |                | 25              |                    |                    | 2.74              |     |                |        |                             |      |             |     |  |
|             | 5   | 260             |                   |                 |                   |                | 25              |                    |                    | 2.71              |     |                |        |                             |      |             |     |  |
|             | 6   | 260             |                   |                 |                   |                | 25              |                    |                    | 2.71              |     |                |        |                             |      |             |     |  |
|             | 7   | 260             |                   |                 |                   |                | 25              |                    |                    | 2.62              |     |                |        |                             |      |             |     |  |
|             | 8   | 260             |                   |                 |                   |                | 25              |                    |                    | 2.6               |     |                |        |                             |      |             |     |  |
|             | 9   | 160             |                   |                 |                   |                | 25              |                    |                    | 2.59              |     |                |        |                             |      |             |     |  |
|             | 10  | 160             |                   |                 |                   |                | 25              |                    |                    | 2.57              |     |                |        |                             |      |             |     |  |
| II<br>STAGE | 15  | 220             |                   |                 |                   | ≤5             | 25              |                    |                    | 0.45              | ≥90 |                |        |                             |      |             |     |  |
|             | 20  | 300             |                   |                 |                   |                | 25              |                    |                    | 0.45              |     |                |        |                             |      |             |     |  |
|             | 35  | 350             | 25                | 0.45            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |  |
|             | 40  | 360             | 25                | 0.45            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |  |
|             | 50  | 350             | 25                | 0.4             |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |  |
|             | 80  | 360             | 25                | 0.4             |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |  |
|             | 100 | 220             | 25                | 0.4             |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |  |

MPVE

**MAB SERIES**



MAB系列是一款在中等精度领域中性价比最高的机型。

MAB series is one of the most cost-effective models in the field of medium precision.

## 2 Monoblock housing design 一体化外壳

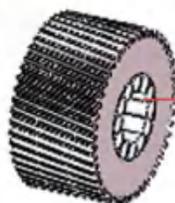
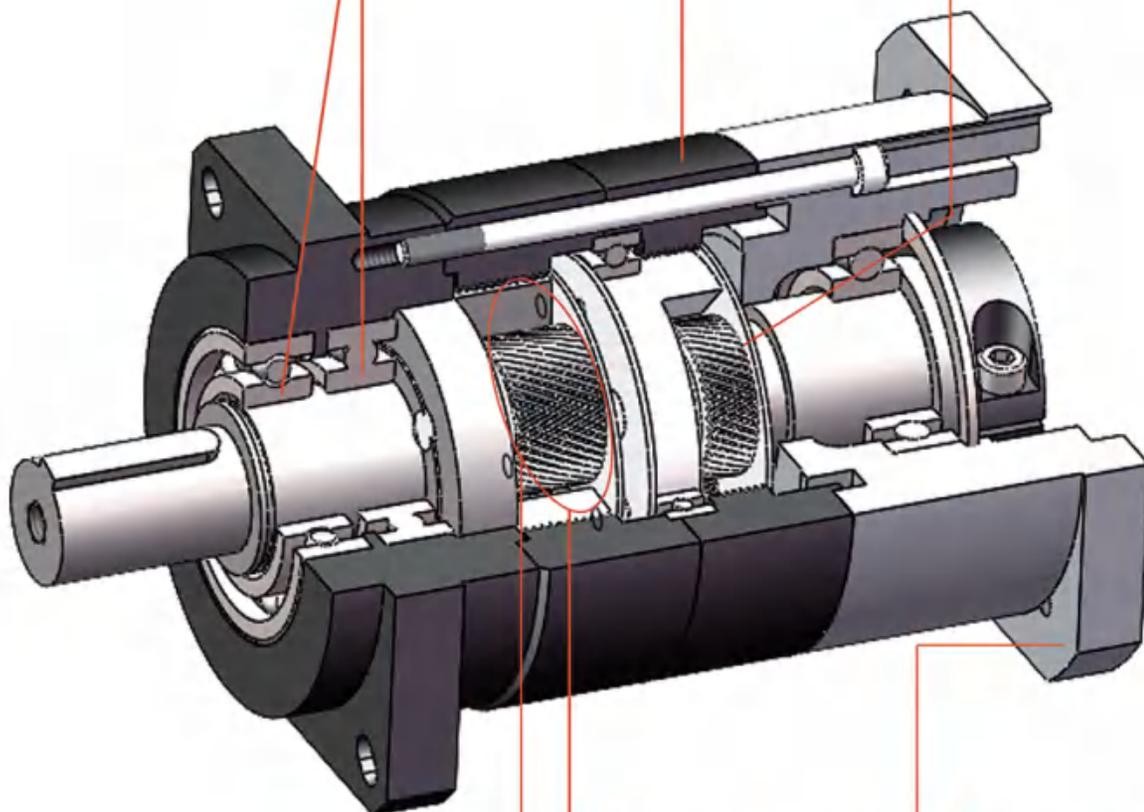
## 1 Double bearing design 双轴承设计

- Improve the bearing capacity  
提高承载能力

- Higher precision  
更高精度
- Ultimate tensile strength  
更强抗拉刚度
- Higher torsional stiffness  
更高抗扭刚度

## 3 Helical teeth 斜齿

- Optimized power transmission  
提高传动效率
- Low noise  
低噪音
- Improved precision  
精度高



## 4 Needle rollers 满滚针

- Increased radial load capacity  
提高径向负载能力
- Small Volume  
体积小

## 5 Planet carrier in disc design 行星齿轮架 (片状结构)

- Guaranteed torque  
保证扭转力矩
- Optimize rotational output  
优化转动输出

## 6 Aluminum motor adapter 特种铝材输入端面

- Lower gearbox weight  
减轻自重

造型数据:

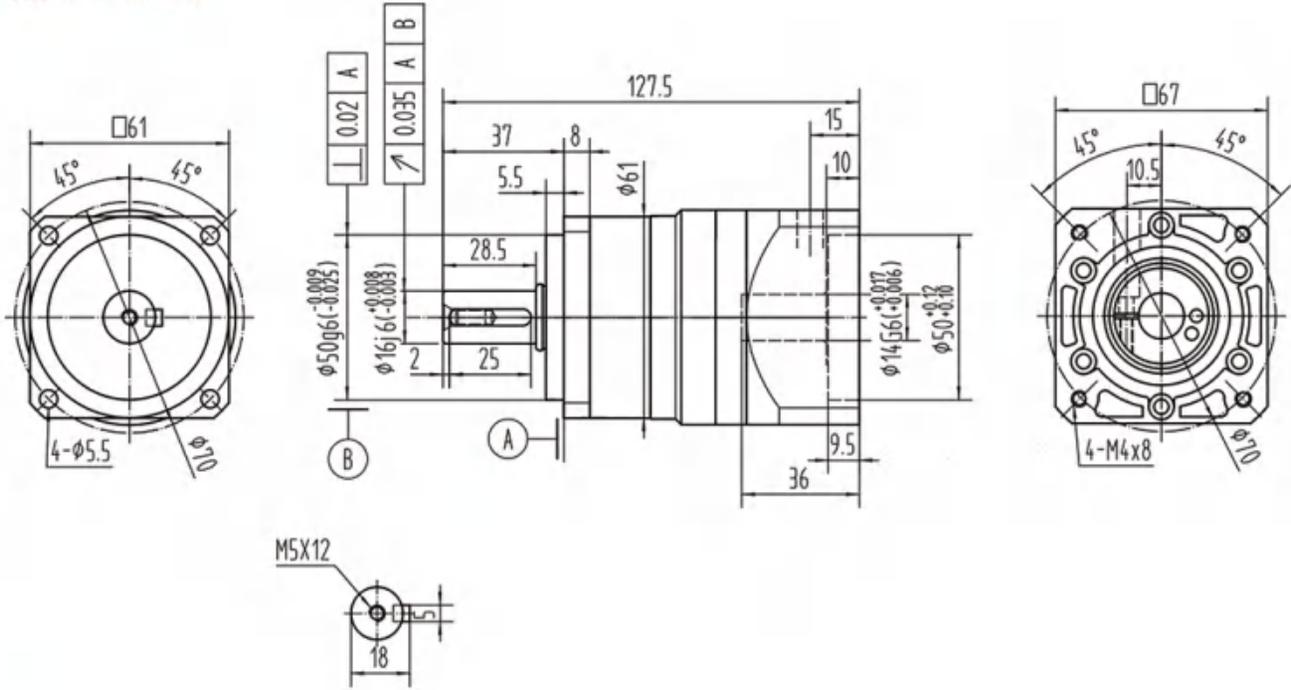
Selection data:

|               |        |
|---------------|--------|
| 扭矩 ( Nm )     | 7-1200 |
| 速比            | 3-100  |
| 背隙 ( arcmin ) | 3-5    |
| 最大工作温度 ( °C ) | 90     |
| 噪音 ( dB )     | 65~77  |

|                                |        |
|--------------------------------|--------|
| Nominal output torque ( Nm )   | 7-1200 |
| Reduction ratio                | 3-100  |
| Backlash ( arcmin )            | 3-5    |
| Max.working temperature ( °C ) | 90     |
| Noise ( dB )                   | 65~77  |

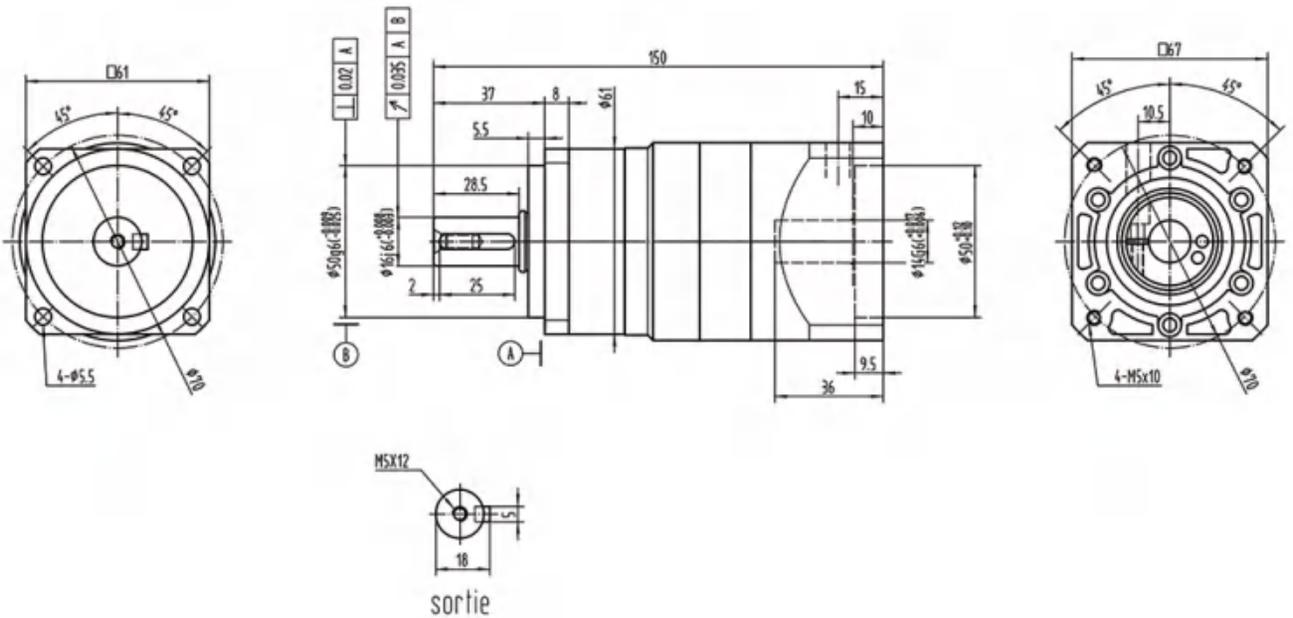
# Drawing / Size

## MAB-060-L1



MAB

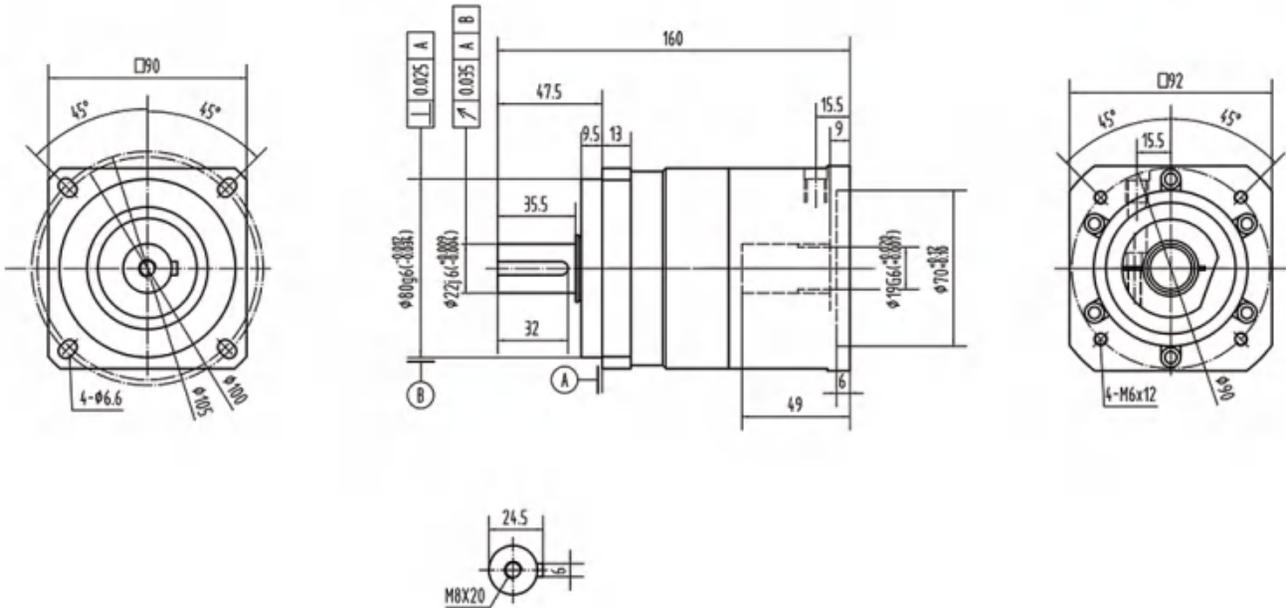
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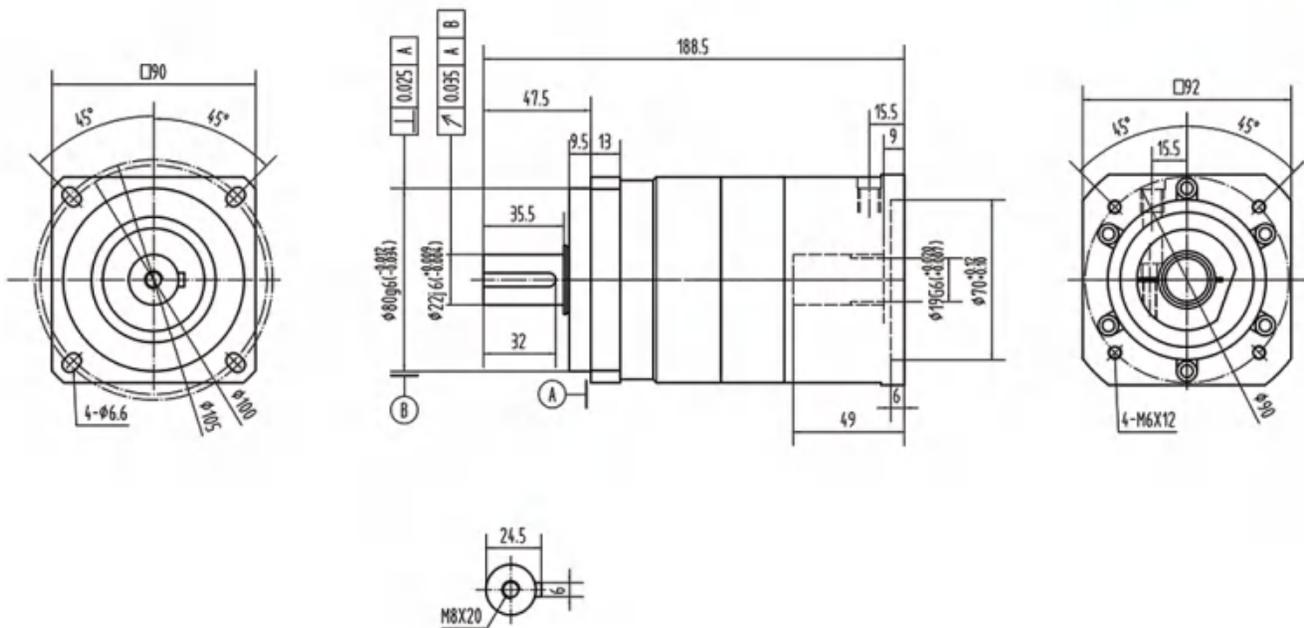
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

## Drawing / Size

### MAB-090-L1



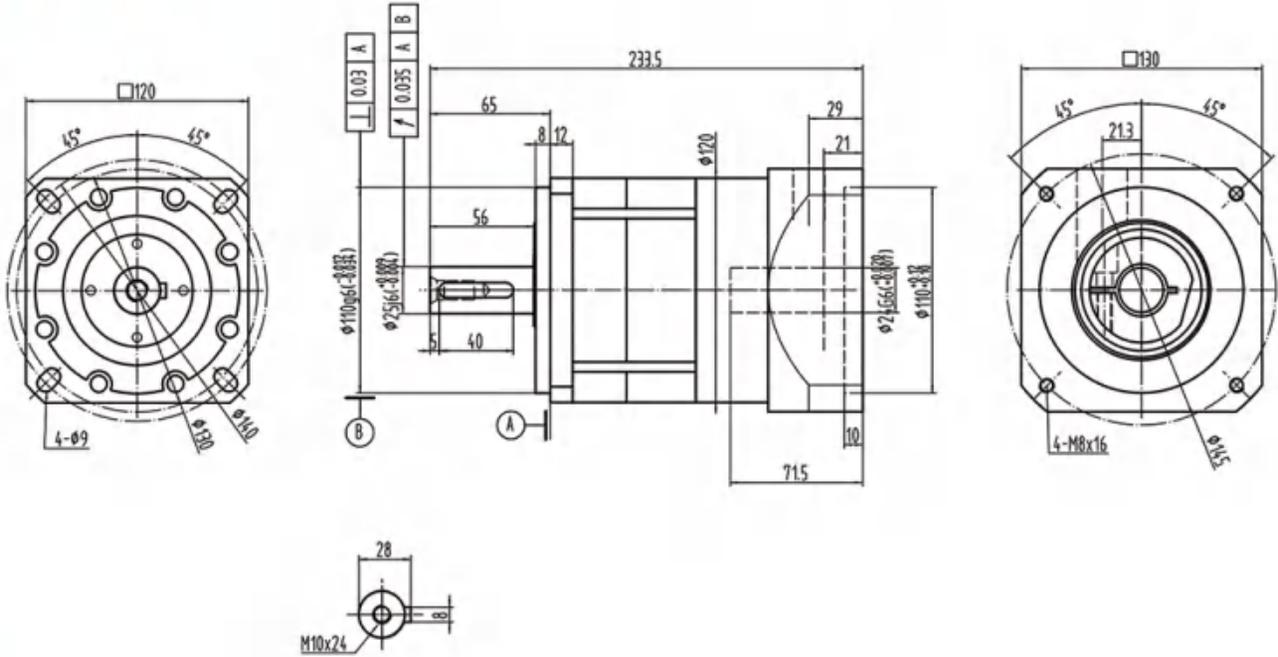
### MAB-090-L2



\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

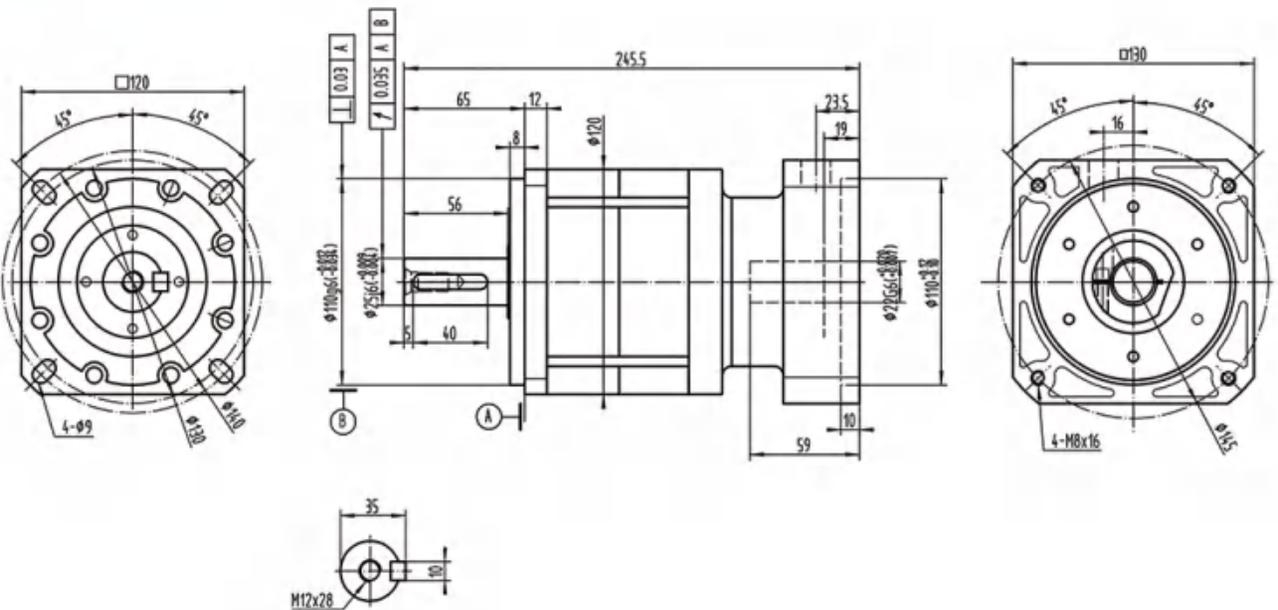
## Drawing / Size

### MAB-115A-L1



MAB

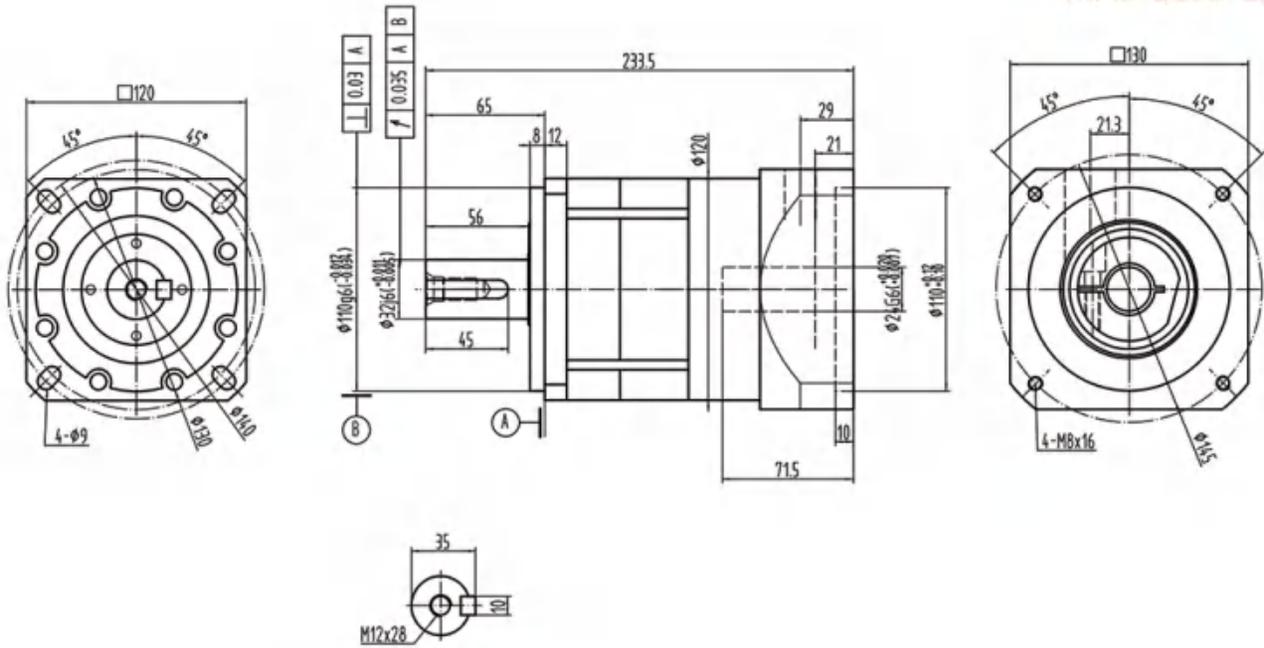
### MAB-115A-L2



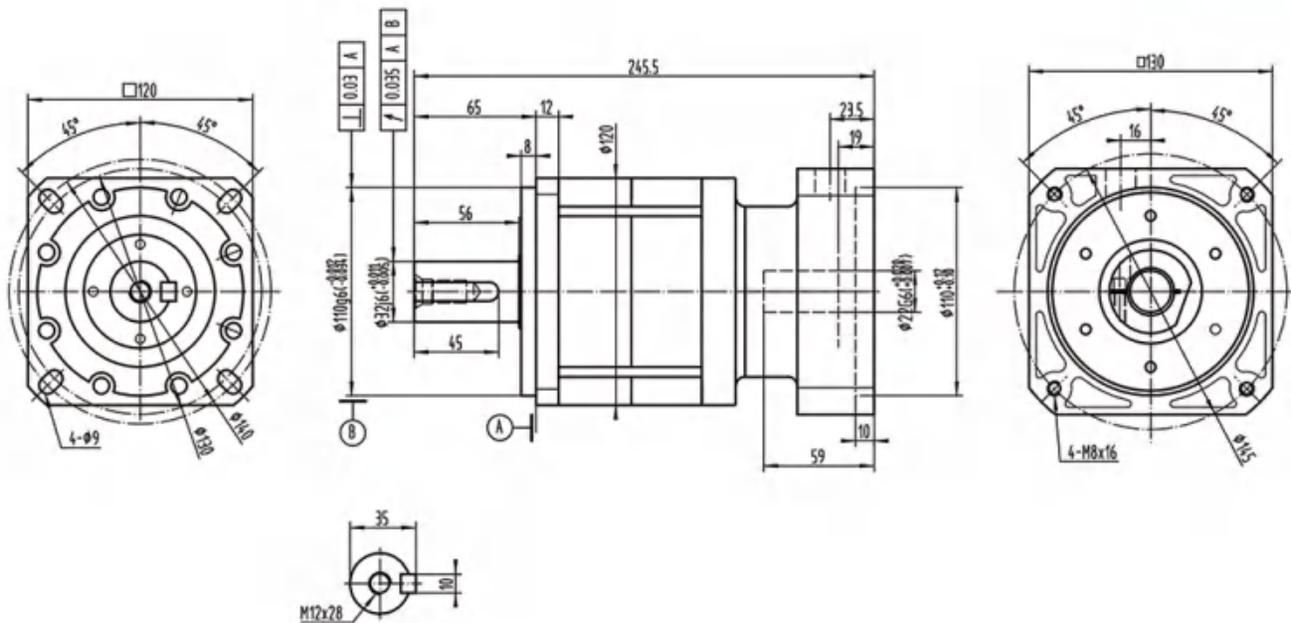
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

Drawing / Size

MAB-115B-L1



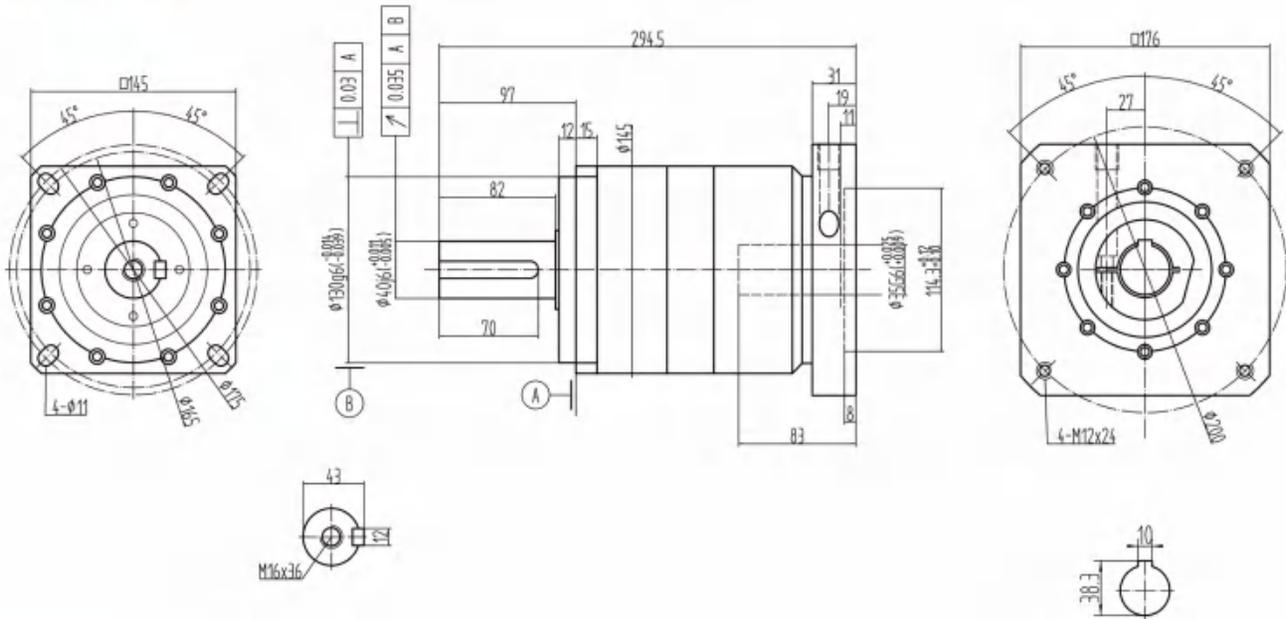
MAB-115B-L2



\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

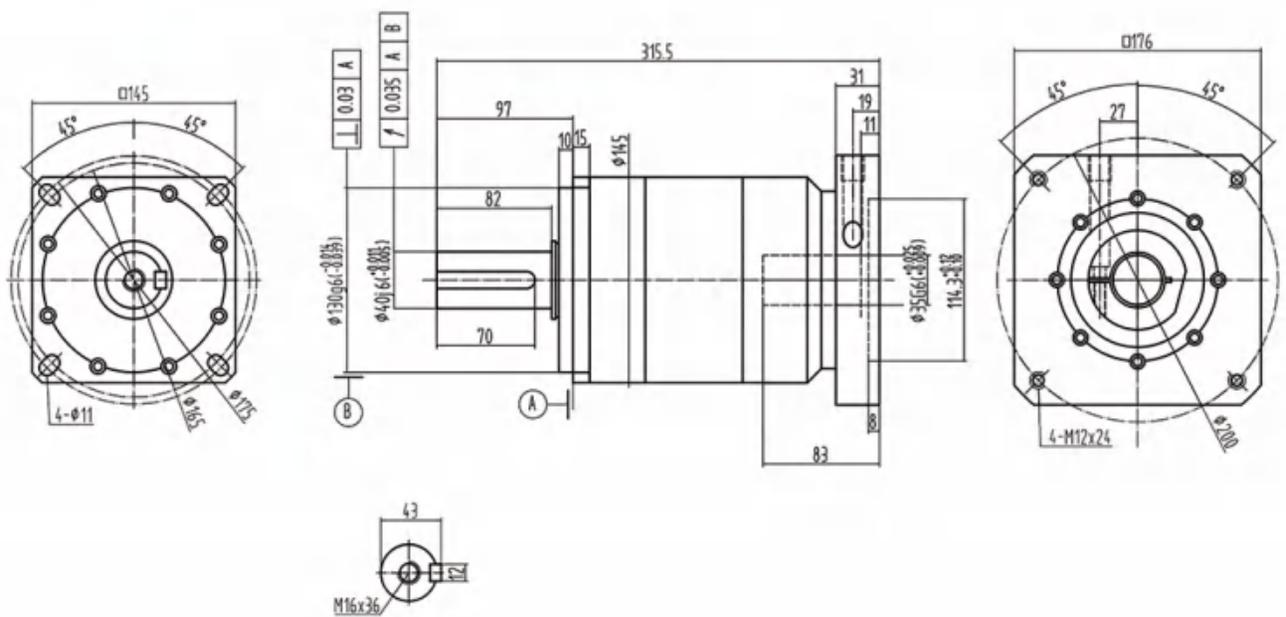
# Drawing / Size

## MAB-140-L1



MAB

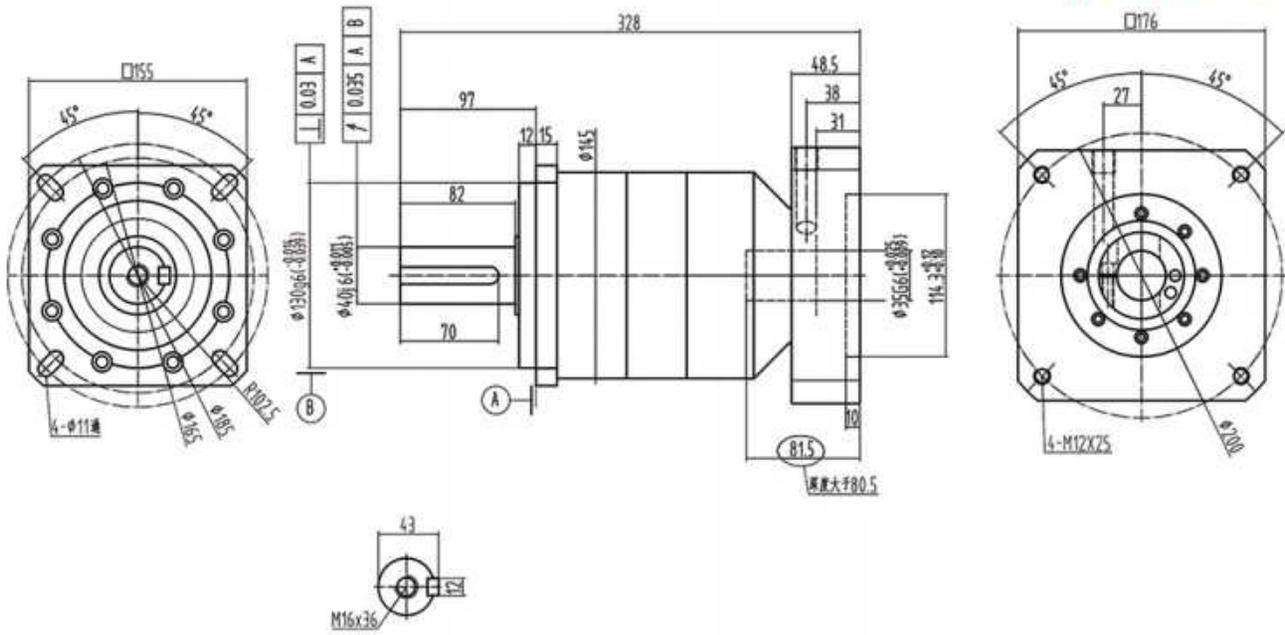
## MAB-140-L2



\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

Drawing / Size

MAB-140-L2-R



\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！



# Performance table

| MAB-060    |             |                 |                   |                 |                   |                |                 |                    |                    |                   |      |                |        |        |                             |      |             |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|------|----------------|--------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>t</sub> | C <sub>2t</sub> | F <sub>20Max</sub> | F <sub>2AMax</sub> | J <sub>t</sub>    | η    | L <sub>h</sub> | T      | Lub    | PC                          | MP   |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | min/rpm         | N                  | N                  | kgcm <sup>2</sup> | %    | h              | °C     |        |                             |      | dB          |     |
| I<br>STAGE | 3           | 25              |                   |                 |                   |                |                 |                    |                    | 0.16              |      |                |        |        |                             |      |             |     |
|            | 4           | 40              |                   |                 |                   |                |                 |                    |                    | 0.14              |      |                |        |        |                             |      |             |     |
|            | 5           | 40              |                   |                 |                   |                |                 |                    |                    | 0.13              |      |                |        |        |                             |      |             |     |
|            | 6           | 40              |                   |                 |                   | ≤3             |                 |                    |                    | 0.13              | ≥95  |                |        |        |                             |      |             |     |
|            | 7           | 40              |                   |                 |                   |                |                 |                    |                    | 0.13              |      |                |        |        |                             |      |             |     |
|            | 8           | 35              |                   |                 |                   |                |                 |                    |                    | 0.13              |      |                |        |        |                             |      |             |     |
|            | 9           | 25              |                   |                 |                   |                |                 |                    |                    | 0.13              |      |                |        |        |                             |      |             |     |
|            | 10          | 25              |                   |                 |                   |                |                 |                    |                    | 0.13              |      |                |        |        |                             |      |             |     |
|            | 15          | 25              | 2×T <sub>2n</sub> |                 | 4000              | 8000           |                 | 7                  | 1060               | 430               | 0.13 |                | >20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤77 |
|            | II<br>STAGE | 16              | 40                |                 |                   |                |                 |                    |                    |                   | 0.13 |                |        |        |                             |      |             |     |
| 20         |             | 40              |                   |                 |                   |                |                 |                    |                    | 0.13              |      |                |        |        |                             |      |             |     |
| 35         |             | 40              |                   |                 |                   |                |                 |                    |                    | 0.13              |      |                |        |        |                             |      |             |     |
| 40         |             | 40              |                   |                 |                   | ≤5             |                 |                    |                    | 0.13              | ≥90  |                |        |        |                             |      |             |     |
| 50         |             | 35              |                   |                 |                   |                |                 |                    |                    | 0.13              |      |                |        |        |                             |      |             |     |
| 70         |             | 35              |                   |                 |                   |                |                 |                    |                    | 0.13              |      |                |        |        |                             |      |             |     |
| 80         |             | 35              |                   |                 |                   |                |                 |                    |                    | 0.13              |      |                |        |        |                             |      |             |     |
| 100        |             | 25              |                   |                 |                   |                |                 |                    |                    | 0.13              |      |                |        |        |                             |      |             |     |

MAB

| MAB-090    |             |                 |                   |                 |                   |                |                 |                    |                    |                   |      |                |        |        |                             |      |             |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|------|----------------|--------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>t</sub> | C <sub>2t</sub> | F <sub>20Max</sub> | F <sub>2AMax</sub> | J <sub>t</sub>    | η    | L <sub>h</sub> | T      | Lub    | PC                          | MP   |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | min/rpm         | N                  | N                  | kgcm <sup>2</sup> | %    | h              | °C     |        |                             |      | dB          |     |
| I<br>STAGE | 3           | 70              |                   |                 |                   |                |                 |                    |                    | 0.61              |      |                |        |        |                             |      |             |     |
|            | 4           | 100             |                   |                 |                   |                |                 |                    |                    | 0.48              |      |                |        |        |                             |      |             |     |
|            | 5           | 100             |                   |                 |                   |                |                 |                    |                    | 0.47              |      |                |        |        |                             |      |             |     |
|            | 6           | 100             |                   |                 |                   | ≤3             |                 |                    |                    | 0.47              | ≥95  |                |        |        |                             |      |             |     |
|            | 7           | 100             |                   |                 |                   |                |                 |                    |                    | 0.45              |      |                |        |        |                             |      |             |     |
|            | 8           | 100             |                   |                 |                   |                |                 |                    |                    | 0.45              |      |                |        |        |                             |      |             |     |
|            | 9           | 70              |                   |                 |                   |                |                 |                    |                    | 0.42              |      |                |        |        |                             |      |             |     |
|            | 10          | 70              |                   |                 |                   |                |                 |                    |                    | 0.40              |      |                |        |        |                             |      |             |     |
|            | 15          | 70              | 2×T <sub>2n</sub> |                 | 3000              | 6000           |                 | 14                 | 1960               | 2200              | 0.45 |                | >20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤77 |
|            | II<br>STAGE | 16              | 100               |                 |                   |                |                 |                    |                    |                   | 0.45 |                |        |        |                             |      |             |     |
| 20         |             | 100             |                   |                 |                   |                |                 |                    |                    | 0.45              |      |                |        |        |                             |      |             |     |
| 35         |             | 100             |                   |                 |                   |                |                 |                    |                    | 0.45              |      |                |        |        |                             |      |             |     |
| 40         |             | 100             |                   |                 |                   | ≤5             |                 |                    |                    | 0.45              | ≥90  |                |        |        |                             |      |             |     |
| 50         |             | 100             |                   |                 |                   |                |                 |                    |                    | 0.40              |      |                |        |        |                             |      |             |     |
| 70         |             | 100             |                   |                 |                   |                |                 |                    |                    | 0.40              |      |                |        |        |                             |      |             |     |
| 80         |             | 100             |                   |                 |                   |                |                 |                    |                    | 0.40              |      |                |        |        |                             |      |             |     |
| 100        |             | 70              |                   |                 |                   |                |                 |                    |                    | 0.40              |      |                |        |        |                             |      |             |     |

## Performance table

| MAB-115     |     |                 |                   |                 |                   |                |                 |                    |                     |                   |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>t</sub> | C <sub>2t</sub> | F <sub>2RMax</sub> | F <sub>2JAMax</sub> | J <sub>t</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | mm/km           | N                  | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3   | 180             |                   |                 |                   |                |                 |                    |                     | 3.25              | ≥95 |                |        | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤77 |
|             | 4   | 240             |                   |                 |                   |                |                 |                    | 2.74                |                   |     |                |        |                             |      |             |     |
|             | 5   | 300             |                   |                 |                   |                |                 |                    | 2.71                |                   |     |                |        |                             |      |             |     |
|             | 6   | 300             |                   |                 |                   | ≤3             |                 |                    | 2.71                |                   |     |                |        |                             |      |             |     |
|             | 7   | 300             |                   |                 |                   |                |                 |                    | 2.62                |                   |     |                |        |                             |      |             |     |
|             | 8   | 300             |                   |                 |                   |                |                 |                    | 2.60                |                   |     |                |        |                             |      |             |     |
|             | 9   | 180             |                   |                 |                   |                |                 |                    | 2.59                |                   |     |                |        |                             |      |             |     |
| II<br>STAGE | 10  | 180             | 2×T <sub>2n</sub> | 3000            | 6000              |                | 25              | 4000               | 3600                | 2.57              | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤77 |
|             | 15  | 180             |                   |                 |                   |                |                 |                    | 0.45                |                   |     |                |        |                             |      |             |     |
|             | 16  | 240             |                   |                 |                   |                |                 |                    | 0.45                |                   |     |                |        |                             |      |             |     |
|             | 20  | 240             |                   |                 |                   |                |                 |                    | 0.45                |                   |     |                |        |                             |      |             |     |
|             | 35  | 300             |                   |                 |                   |                |                 |                    | 0.45                |                   |     |                |        |                             |      |             |     |
|             | 40  | 300             |                   |                 |                   | ≤5             |                 |                    | 0.45                |                   |     |                |        |                             |      |             |     |
|             | 50  | 300             |                   |                 |                   |                |                 |                    | 0.40                |                   |     |                |        |                             |      |             |     |
|             | 70  | 300             |                   |                 |                   |                |                 |                    | 0.40                |                   |     |                |        |                             |      |             |     |
|             | 80  | 300             |                   |                 |                   |                |                 |                    | 0.40                |                   |     |                |        |                             |      |             |     |
|             | 100 | 180             |                   |                 |                   |                |                 |                    | 0.40                |                   |     |                |        |                             |      |             |     |

MAB

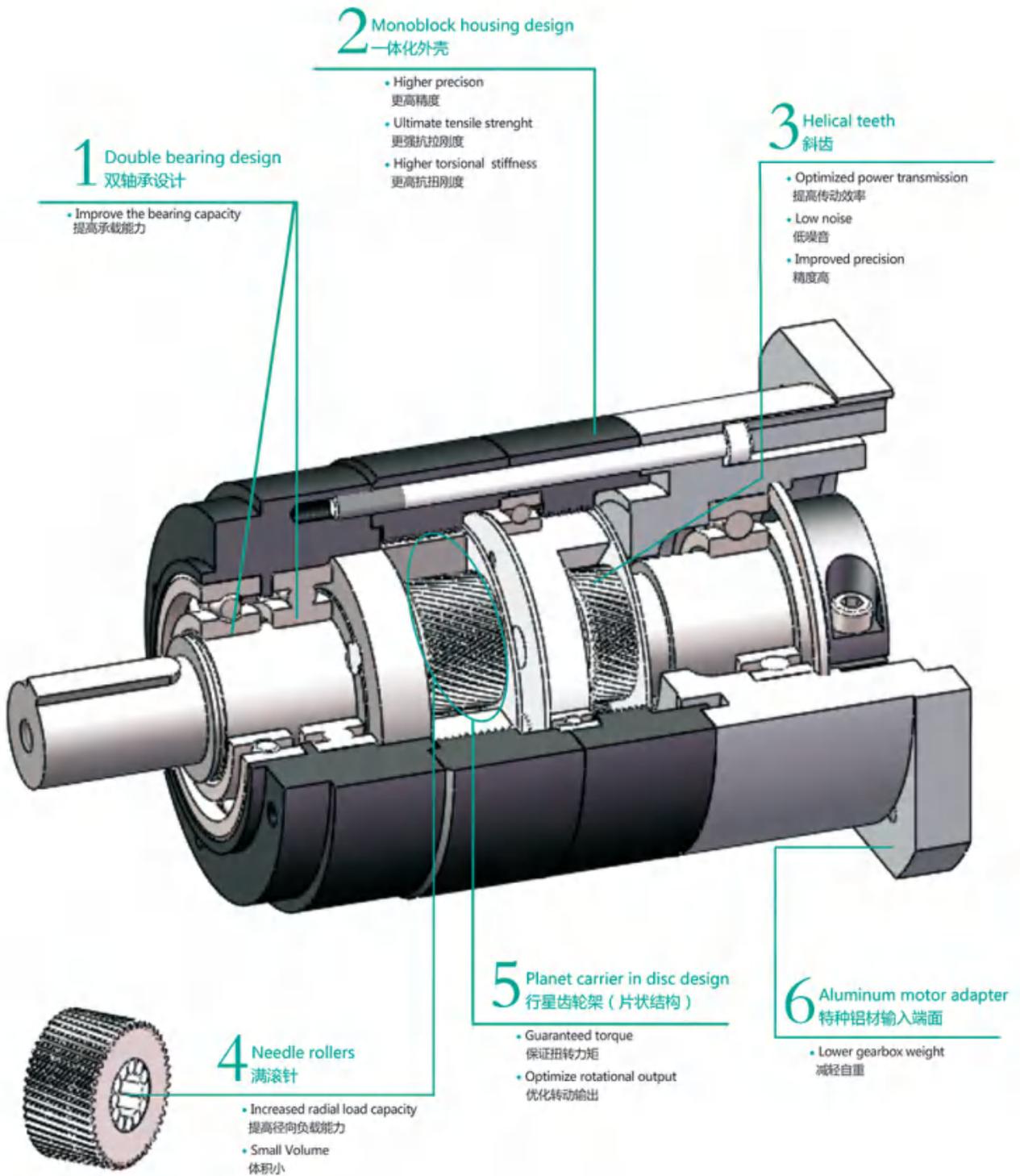
| MAB-140     |     |                 |                   |                 |                   |                |                 |                    |                     |                   |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>t</sub> | C <sub>2t</sub> | F <sub>2RMax</sub> | F <sub>2JAMax</sub> | J <sub>t</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | mm/km           | N                  | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3   | 380             |                   |                 |                   |                |                 |                    |                     | 9.21              | ≥95 |                |        | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤77 |
|             | 4   | 520             |                   |                 |                   |                |                 |                    | 7.54                |                   |     |                |        |                             |      |             |     |
|             | 5   | 600             |                   |                 |                   |                |                 |                    | 7.42                |                   |     |                |        |                             |      |             |     |
|             | 6   | 600             |                   |                 |                   | ≤3             |                 |                    | 7.42                |                   |     |                |        |                             |      |             |     |
|             | 7   | 600             |                   |                 |                   |                |                 |                    | 7.14                |                   |     |                |        |                             |      |             |     |
|             | 8   | 600             |                   |                 |                   |                |                 |                    | 7.14                |                   |     |                |        |                             |      |             |     |
|             | 9   | 380             |                   |                 |                   |                |                 |                    | 7.08                |                   |     |                |        |                             |      |             |     |
| II<br>STAGE | 10  | 380             | 2×T <sub>2n</sub> | 3000            | 6000              |                | 50              | 8500               | 7400                | 7.03              | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤77 |
|             | 15  | 380             |                   |                 |                   |                |                 |                    | 2.63                |                   |     |                |        |                             |      |             |     |
|             | 16  | 520             |                   |                 |                   |                |                 |                    | 2.63                |                   |     |                |        |                             |      |             |     |
|             | 20  | 520             |                   |                 |                   |                |                 |                    | 2.43                |                   |     |                |        |                             |      |             |     |
|             | 35  | 600             |                   |                 |                   |                |                 |                    | 2.43                |                   |     |                |        |                             |      |             |     |
|             | 40  | 600             |                   |                 |                   | ≤5             |                 |                    | 2.43                |                   |     |                |        |                             |      |             |     |
|             | 50  | 600             |                   |                 |                   |                |                 |                    | 2.39                |                   |     |                |        |                             |      |             |     |
|             | 70  | 600             |                   |                 |                   |                |                 |                    | 2.39                |                   |     |                |        |                             |      |             |     |
|             | 80  | 600             |                   |                 |                   |                |                 |                    | 2.39                |                   |     |                |        |                             |      |             |     |
|             | 100 | 380             |                   |                 |                   |                |                 |                    | 2.39                |                   |     |                |        |                             |      |             |     |

**MAE SERIES**



MAE系列是一款在中等精度领域中性价比最高的机型。

MAE series is one of the most cost-effective models in the field of medium precision.



MAE

造型数据:

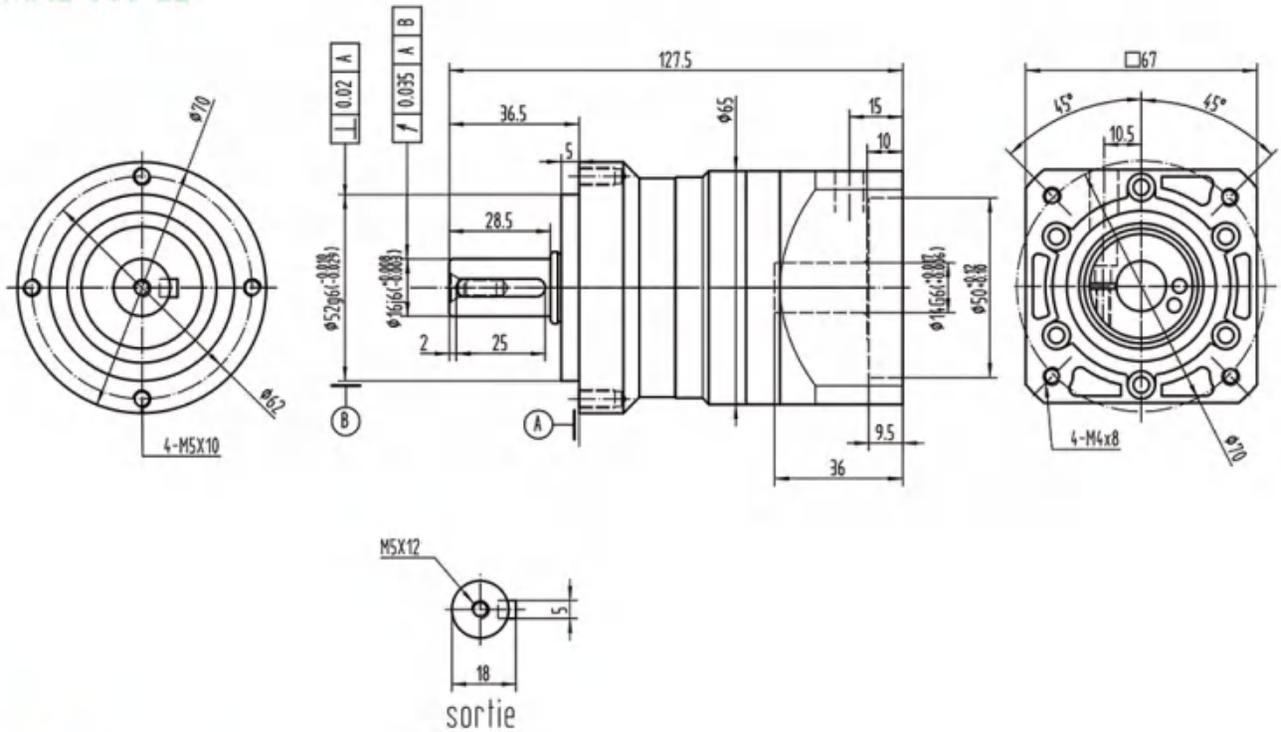
Selection data:

|               |        |
|---------------|--------|
| 扭矩 ( Nm )     | 7-1200 |
| 速比            | 3-100  |
| 背隙 ( arcmin ) | 3-5    |
| 最大工作温度 ( °C ) | 90     |
| 噪音 ( dB )     | 65~77  |

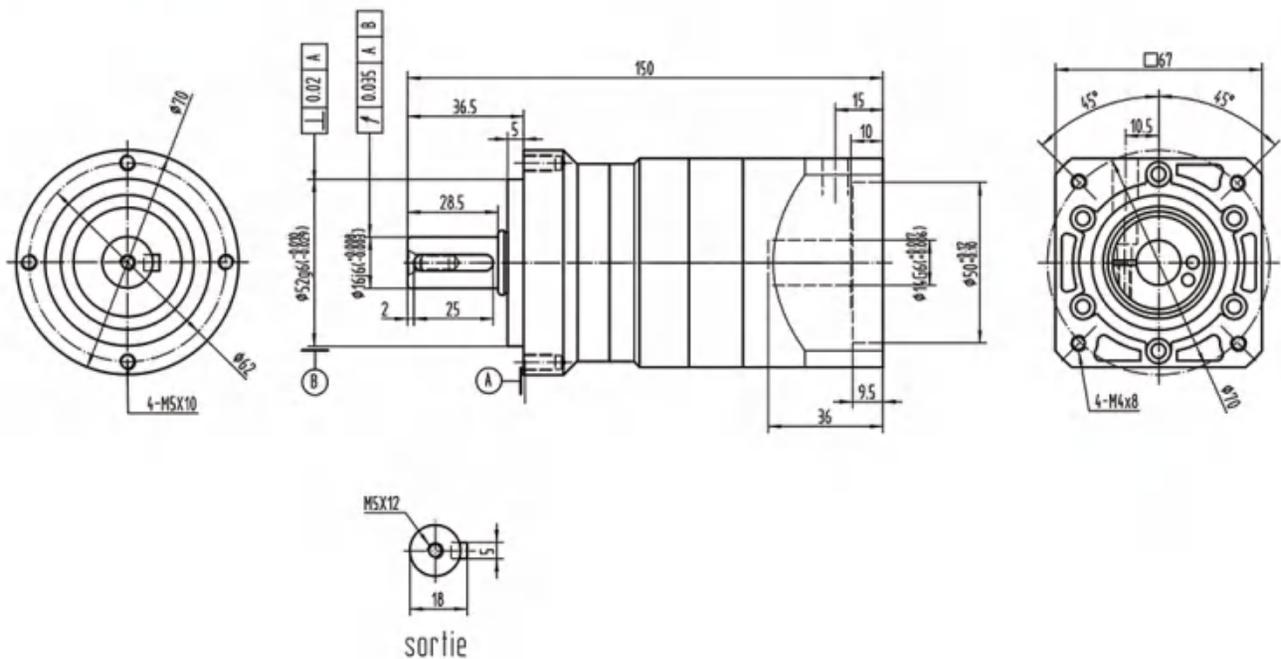
|                                |        |
|--------------------------------|--------|
| Nominal output torque ( Nm )   | 7-1200 |
| Reduction ratio                | 3-100  |
| Backlash ( arcmin )            | 3-5    |
| Max.working temperature ( °C ) | 90     |
| Noise ( dB )                   | 65~77  |

# Drawing / Size

## MAE-060-L1



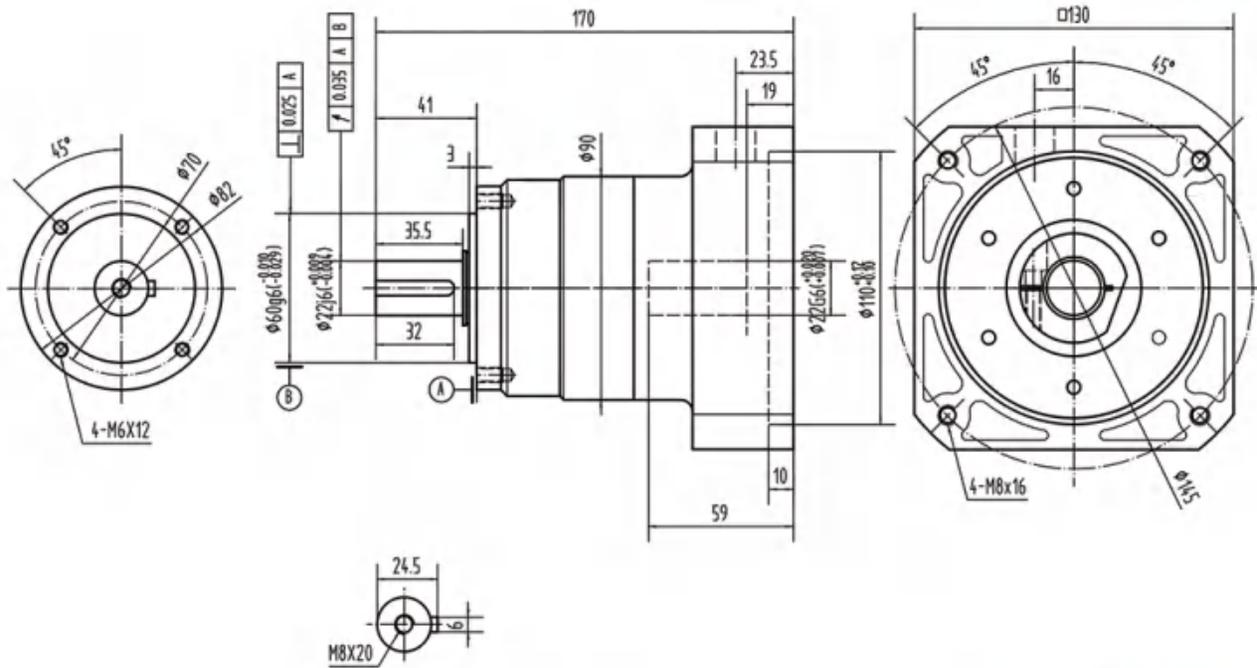
## MAE-060-L2



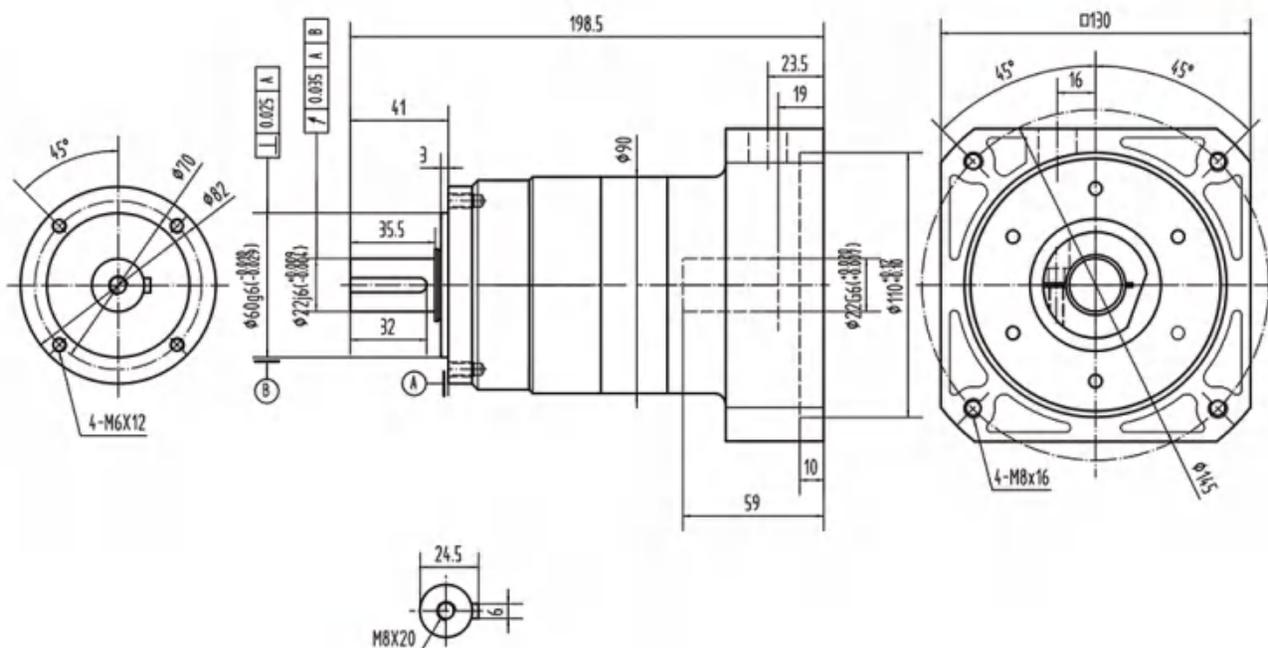
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

Drawing / Size

MAE-090-L1



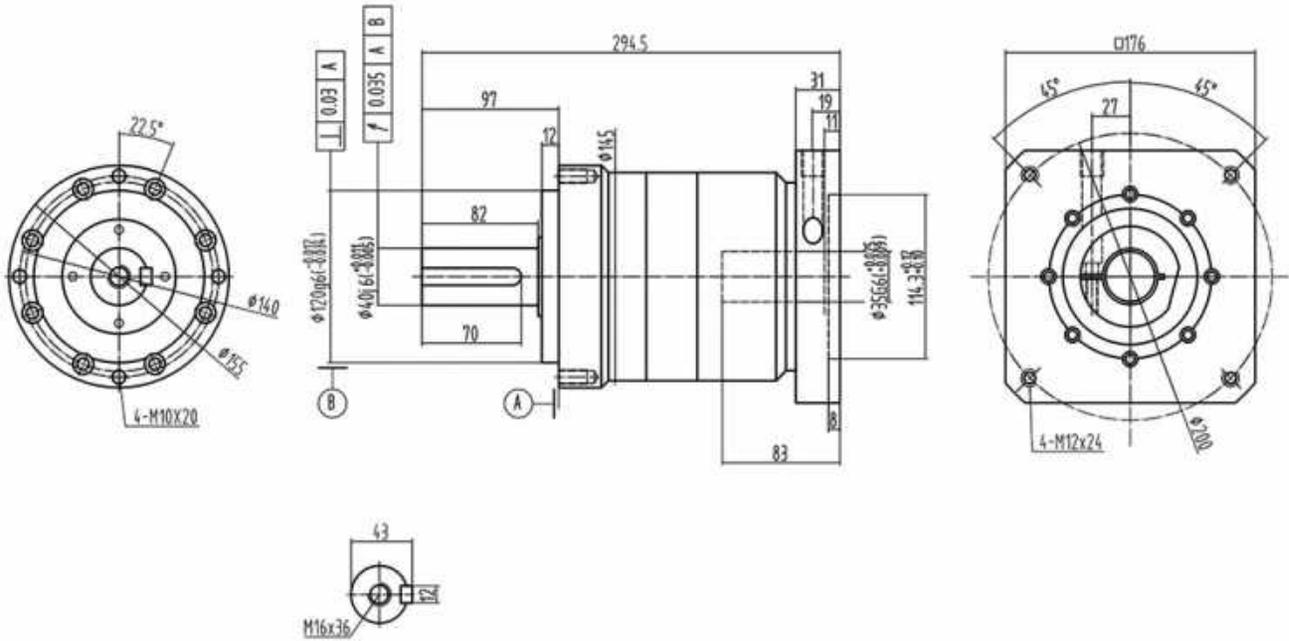
MAE-090-L2



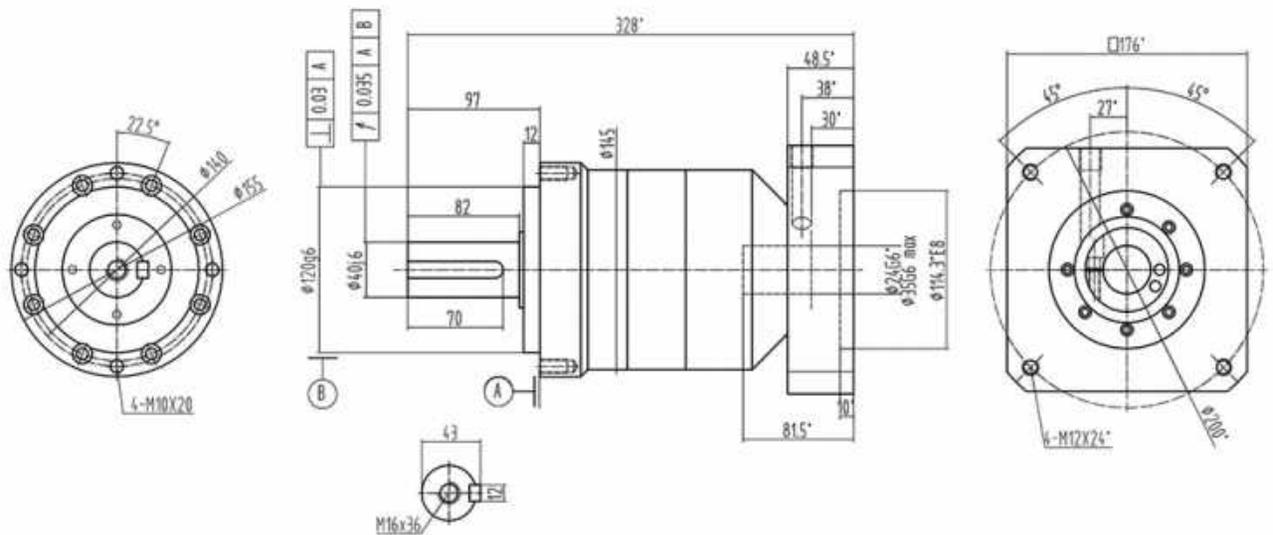
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

Drawing / Size

MAE-155-L1



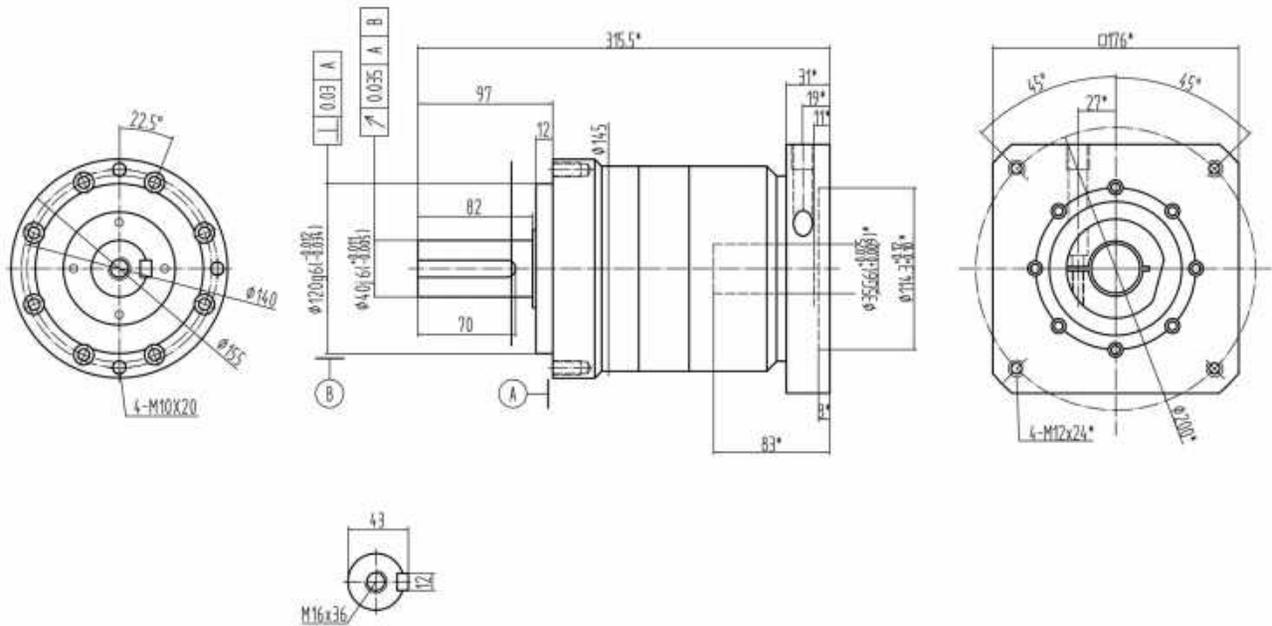
MAE-155-L2



\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

Drawing / Size

MAE-155-L2-P



\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Performance table

| MAE-060     |     |                 |                   |                 |                   |                |                 |                    |                    |                    |      |                |        |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|--------------------|------|----------------|--------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>t</sub> | C <sub>2t</sub> | F <sub>2tMax</sub> | F <sub>2tMax</sub> | J <sub>t</sub>     | η    | L <sub>h</sub> | T      | Lub    | PC                          | MP   | dB          |     |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | mm/mm           | N                  | N                  | kg/cm <sup>2</sup> | %    | h              | °C     |        |                             |      |             |     |
| I<br>STAGE  | 3   | 25              |                   |                 |                   |                |                 |                    |                    | 0.16               |      |                |        |        |                             |      |             |     |
|             | 4   | 40              |                   |                 |                   |                |                 |                    |                    | 0.14               |      |                |        |        |                             |      |             |     |
|             | 5   | 40              |                   |                 |                   |                |                 |                    |                    | 0.13               |      |                |        |        |                             |      |             |     |
|             | 6   | 40              |                   |                 |                   | ≤3             |                 |                    |                    | 0.13               | ≥95  |                |        |        |                             |      |             |     |
|             | 7   | 40              |                   |                 |                   |                |                 |                    |                    | 0.13               |      |                |        |        |                             |      |             |     |
|             | 8   | 35              |                   |                 |                   |                |                 |                    |                    | 0.13               |      |                |        |        |                             |      |             |     |
|             | 9   | 25              |                   |                 |                   |                |                 |                    |                    | 0.13               |      |                |        |        |                             |      |             |     |
|             | 10  | 25              |                   |                 |                   |                |                 |                    |                    | 0.13               |      |                |        |        |                             |      |             |     |
|             | 15  | 25              | 2×T <sub>2n</sub> |                 | 4000              | 8000           |                 | 7                  | 1060               | 430                | 0.13 |                | >20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤77 |
|             | 16  | 40              |                   |                 |                   |                |                 |                    |                    | 0.13               |      |                |        |        |                             |      |             |     |
| II<br>STAGE | 20  | 40              |                   |                 |                   |                |                 |                    |                    | 0.13               |      |                |        |        |                             |      |             |     |
|             | 35  | 40              |                   |                 |                   |                |                 |                    |                    | 0.13               |      |                |        |        |                             |      |             |     |
|             | 40  | 40              |                   |                 |                   | ≤5             |                 |                    |                    | 0.13               | ≥90  |                |        |        |                             |      |             |     |
|             | 50  | 35              |                   |                 |                   |                |                 |                    |                    | 0.13               |      |                |        |        |                             |      |             |     |
|             | 70  | 35              |                   |                 |                   |                |                 |                    |                    | 0.13               |      |                |        |        |                             |      |             |     |
|             | 80  | 35              |                   |                 |                   |                |                 |                    |                    | 0.13               |      |                |        |        |                             |      |             |     |
|             | 80  | 35              |                   |                 |                   |                |                 |                    |                    | 0.13               |      |                |        |        |                             |      |             |     |
|             | 100 | 25              |                   |                 |                   |                |                 |                    |                    | 0.13               |      |                |        |        |                             |      |             |     |

MAE

| MAE-090     |     |                 |                   |                 |                   |                |                 |                    |                    |                    |      |                |        |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|--------------------|------|----------------|--------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>t</sub> | C <sub>2t</sub> | F <sub>2tMax</sub> | F <sub>2tMax</sub> | J <sub>t</sub>     | η    | L <sub>h</sub> | T      | Lub    | PC                          | MP   | dB          |     |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | mm/mm           | N                  | N                  | kg/cm <sup>2</sup> | %    | h              | °C     |        |                             |      |             |     |
| I<br>STAGE  | 3   | 70              |                   |                 |                   |                |                 |                    |                    | 0.61               |      |                |        |        |                             |      |             |     |
|             | 4   | 100             |                   |                 |                   |                |                 |                    |                    | 0.48               |      |                |        |        |                             |      |             |     |
|             | 5   | 100             |                   |                 |                   |                |                 |                    |                    | 0.47               |      |                |        |        |                             |      |             |     |
|             | 6   | 100             |                   |                 |                   | ≤3             |                 |                    |                    | 0.47               | ≥95  |                |        |        |                             |      |             |     |
|             | 7   | 100             |                   |                 |                   |                |                 |                    |                    | 0.45               |      |                |        |        |                             |      |             |     |
|             | 8   | 100             |                   |                 |                   |                |                 |                    |                    | 0.45               |      |                |        |        |                             |      |             |     |
|             | 9   | 70              |                   |                 |                   |                |                 |                    |                    | 0.42               |      |                |        |        |                             |      |             |     |
|             | 10  | 70              |                   |                 |                   |                |                 |                    |                    | 0.40               |      |                |        |        |                             |      |             |     |
|             | 15  | 70              | 2×T <sub>2n</sub> |                 | 3000              | 6000           |                 | 14                 | 1960               | 2200               | 0.45 |                | >20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤77 |
|             | 16  | 100             |                   |                 |                   |                |                 |                    |                    | 0.45               |      |                |        |        |                             |      |             |     |
| II<br>STAGE | 20  | 100             |                   |                 |                   |                |                 |                    |                    | 0.45               |      |                |        |        |                             |      |             |     |
|             | 35  | 100             |                   |                 |                   |                |                 |                    |                    | 0.45               |      |                |        |        |                             |      |             |     |
|             | 40  | 100             |                   |                 |                   | ≤5             |                 |                    |                    | 0.45               | ≥90  |                |        |        |                             |      |             |     |
|             | 50  | 100             |                   |                 |                   |                |                 |                    |                    | 0.40               |      |                |        |        |                             |      |             |     |
|             | 70  | 100             |                   |                 |                   |                |                 |                    |                    | 0.40               |      |                |        |        |                             |      |             |     |
|             | 80  | 100             |                   |                 |                   |                |                 |                    |                    | 0.40               |      |                |        |        |                             |      |             |     |
|             | 80  | 100             |                   |                 |                   |                |                 |                    |                    | 0.40               |      |                |        |        |                             |      |             |     |
|             | 100 | 70              |                   |                 |                   |                |                 |                    |                    | 0.40               |      |                |        |        |                             |      |             |     |

# Performance table

| MAE-155     |     |                 |                   |                 |                   |                |                 |                    |                    |                   |         |                |                             |                             |             |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|---------|----------------|-----------------------------|-----------------------------|-------------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>t</sub> | C <sub>2t</sub> | F <sub>2tMax</sub> | F <sub>2AMax</sub> | J <sub>i</sub>    | η       | L <sub>h</sub> | T                           | Lub                         | PC          | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | mm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %       | h              | °C                          |                             |             |             |     |
| I<br>STAGE  | 3   | 380             |                   |                 |                   |                |                 |                    |                    | 9.21              | ≥95     | > 20000        | -15~45                      | Life<br>Lubrication<br>终身润滑 | IP65        | Any<br>任何方向 | ≤77 |
|             | 4   | 520             |                   |                 |                   |                |                 |                    | 7.54               |                   |         |                |                             |                             |             |             |     |
|             | 5   | 600             |                   |                 |                   |                |                 |                    | 7.42               |                   |         |                |                             |                             |             |             |     |
|             | 6   | 600             |                   |                 |                   | ≤3             |                 |                    | 7.42               |                   |         |                |                             |                             |             |             |     |
|             | 7   | 600             |                   |                 |                   |                |                 |                    | 7.14               |                   |         |                |                             |                             |             |             |     |
|             | 8   | 600             |                   |                 |                   |                |                 |                    | 7.14               |                   |         |                |                             |                             |             |             |     |
|             | 9   | 380             |                   |                 |                   |                |                 |                    | 7.08               |                   |         |                |                             |                             |             |             |     |
|             | 10  | 380             | 2×T <sub>2n</sub> | 3000            | 6000              |                | 50              | 8500               | 7400               | 7.03              |         |                |                             |                             |             |             |     |
|             | 15  | 380             |                   |                 |                   |                |                 |                    | 2.63               |                   |         |                |                             |                             |             |             |     |
|             | 16  | 520             |                   |                 |                   |                |                 |                    | 2.63               |                   |         |                |                             |                             |             |             |     |
| II<br>STAGE | 20  | 520             |                   |                 |                   |                |                 |                    | 2.43               | ≥90               | > 20000 | -15~45         | Life<br>Lubrication<br>终身润滑 | IP65                        | Any<br>任何方向 | ≤77         |     |
|             | 35  | 600             |                   |                 |                   |                |                 |                    | 2.43               |                   |         |                |                             |                             |             |             |     |
|             | 40  | 600             |                   |                 |                   | ≤5             |                 |                    | 2.43               |                   |         |                |                             |                             |             |             |     |
|             | 50  | 600             |                   |                 |                   |                |                 |                    | 2.39               |                   |         |                |                             |                             |             |             |     |
|             | 70  | 600             |                   |                 |                   |                |                 |                    | 2.39               |                   |         |                |                             |                             |             |             |     |
|             | 80  | 600             |                   |                 |                   |                |                 |                    | 2.39               |                   |         |                |                             |                             |             |             |     |
|             | 100 | 380             |                   |                 |                   |                |                 |                    | 2.39               |                   |         |                |                             |                             |             |             |     |

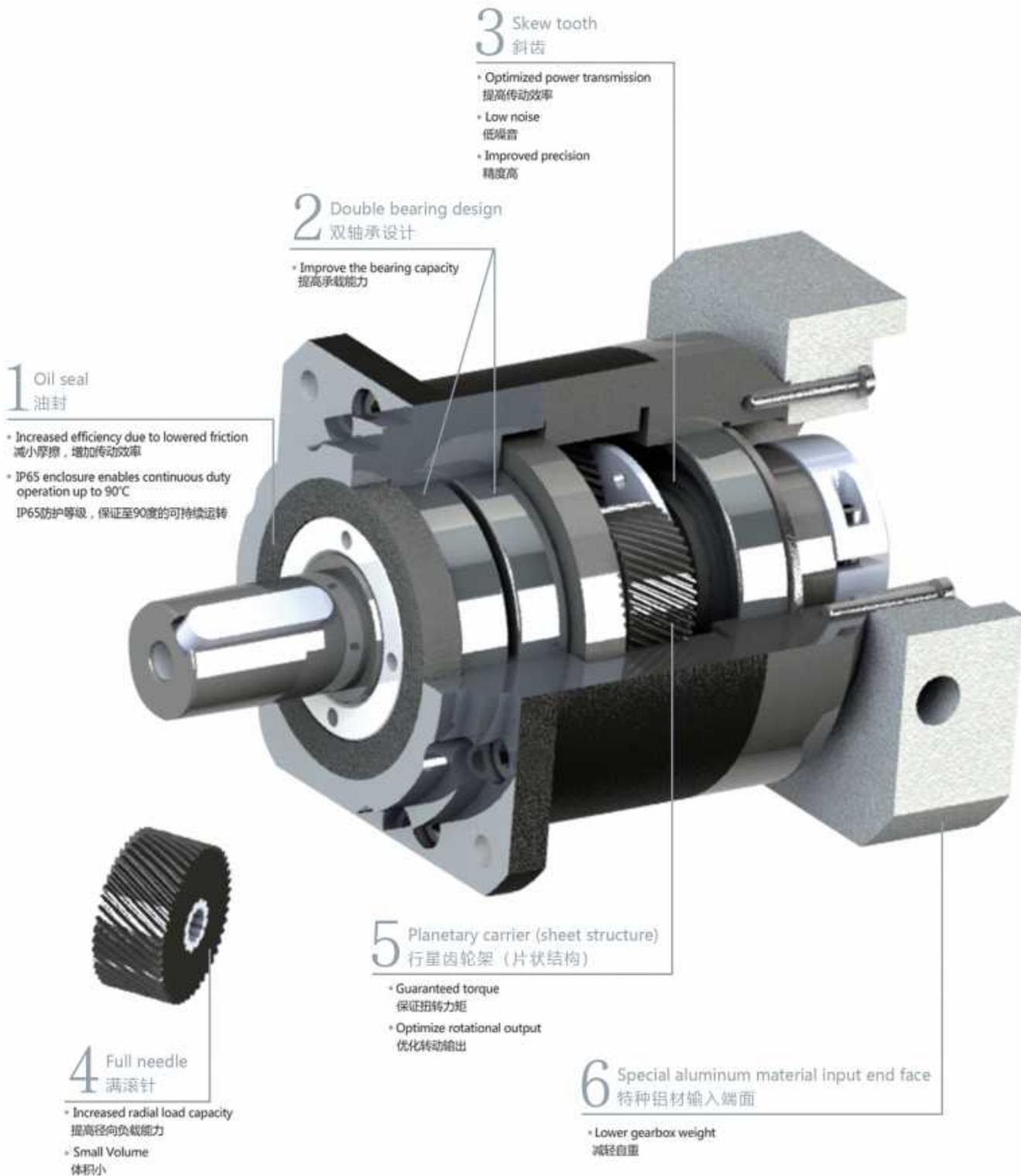
MAE

**MVS SERIES**



此经济款专用于较低技术要求应用。

Economic series dedicated to low challenging applications.



**1** Oil seal  
油封

- Increased efficiency due to lowered friction  
减小摩擦，增加传动效率
- IP65 enclosure enables continuous duty operation up to 90°C  
IP65防护等级，保证至90度的可持续运转

**2** Double bearing design  
双轴承设计

- Improve the bearing capacity  
提高承载能力

**3** Skew tooth  
斜齿

- Optimized power transmission  
提高传动效率
- Low noise  
低噪音
- Improved precision  
精度高



**4** Full needle  
满滚针

- Increased radial load capacity  
提高径向负载能力
- Small Volume  
体积小

**5** Planetary carrier (sheet structure)  
行星齿轮架 (片状结构)

- Guaranteed torque  
保证扭转力矩
- Optimize rotational output  
优化转动输出

**6** Special aluminum material input end face  
特种铝材输入端面

- Lower gearbox weight  
减轻自重

**造型数据:**

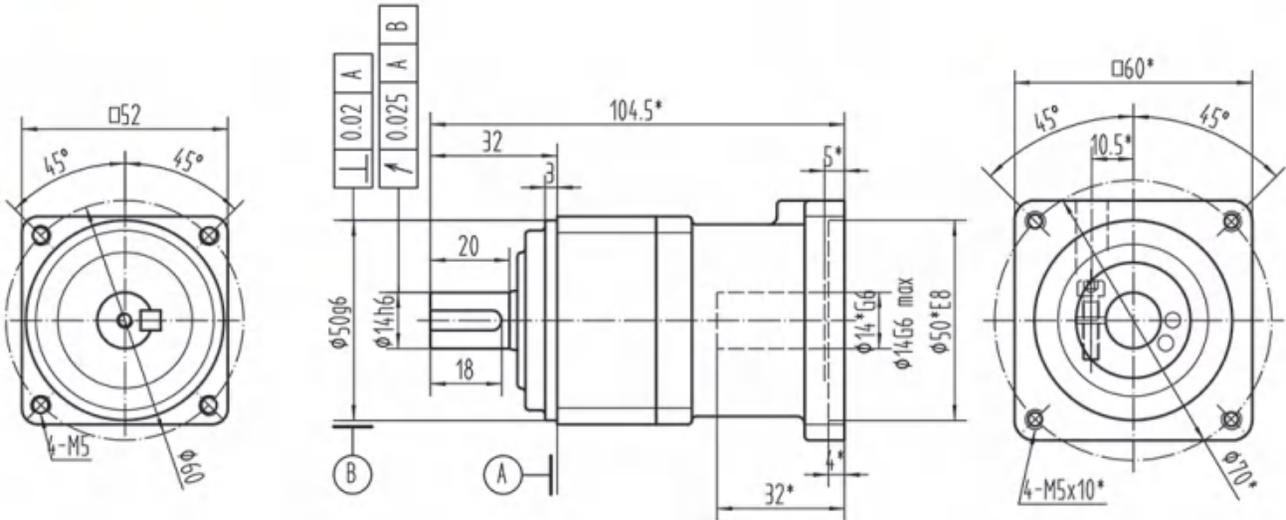
**Selection data:**

|               |       |
|---------------|-------|
| 扭矩 ( Nm )     | 5-330 |
| 速比            | 3-100 |
| 背隙 ( arcmin ) | ≤12   |
| 最大工作温度 ( °C ) | 90    |
| 噪音 ( dB )     | 73-80 |

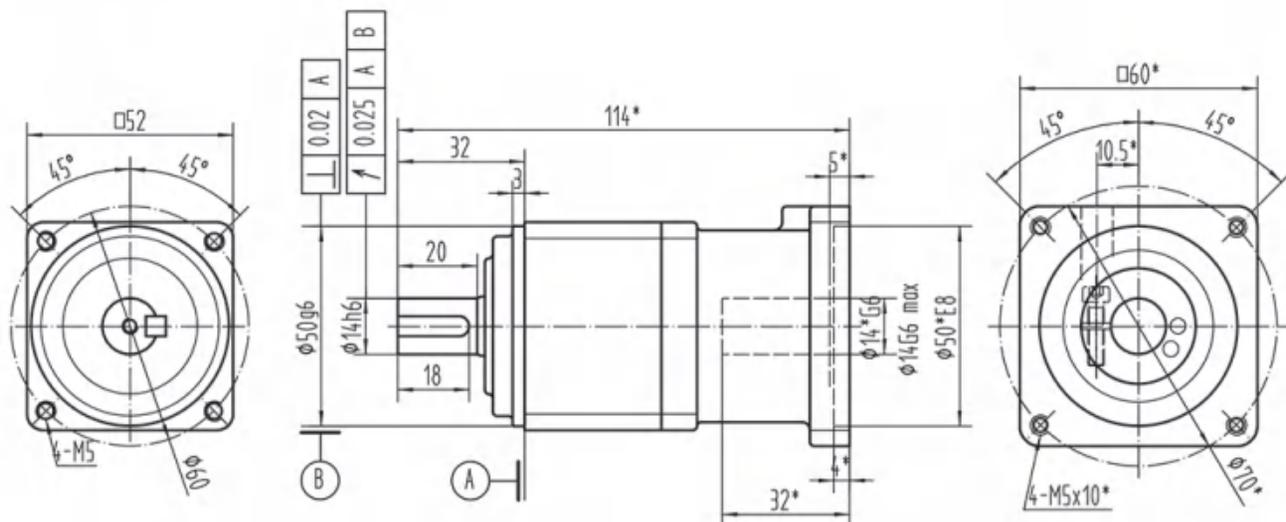
|                                |       |
|--------------------------------|-------|
| Nominal output torque ( Nm )   | 5-330 |
| Reduction ratio                | 3-100 |
| Backlash ( arcmin )            | ≤12   |
| Max.working temperature ( °C ) | 90    |
| Noise ( dB )                   | 73-80 |

## Drawing / Size

MVS-060-L1



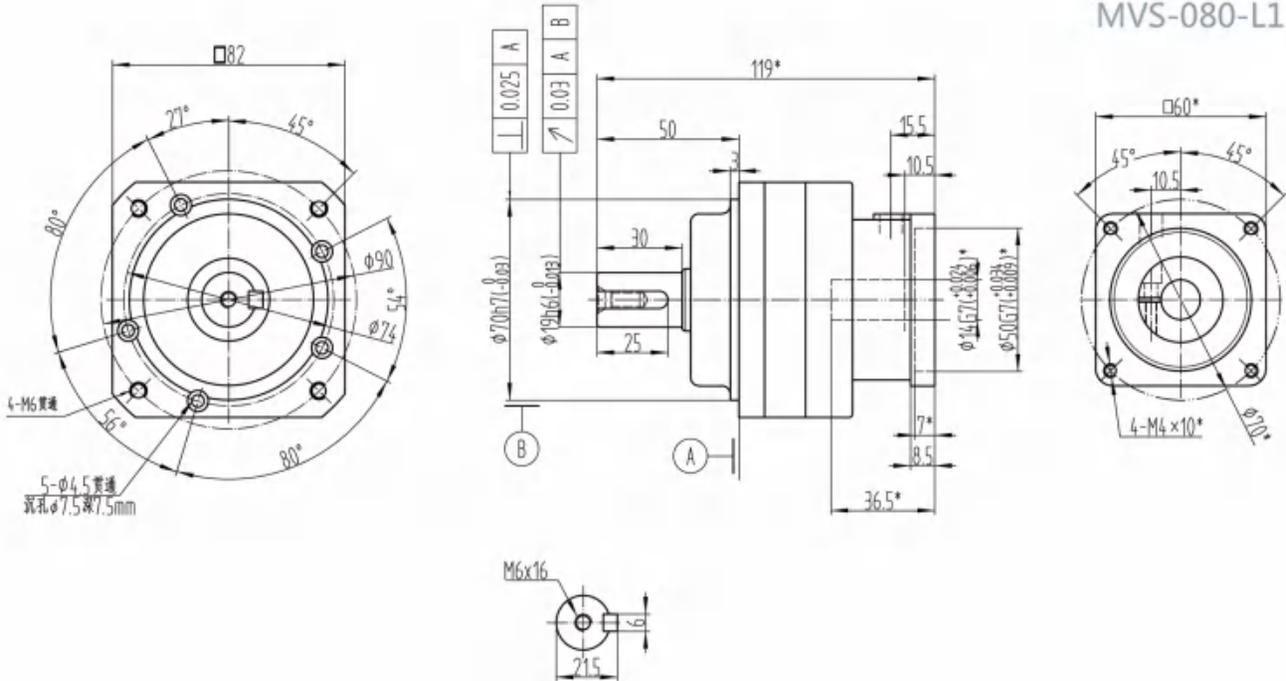
MVS-060-L2



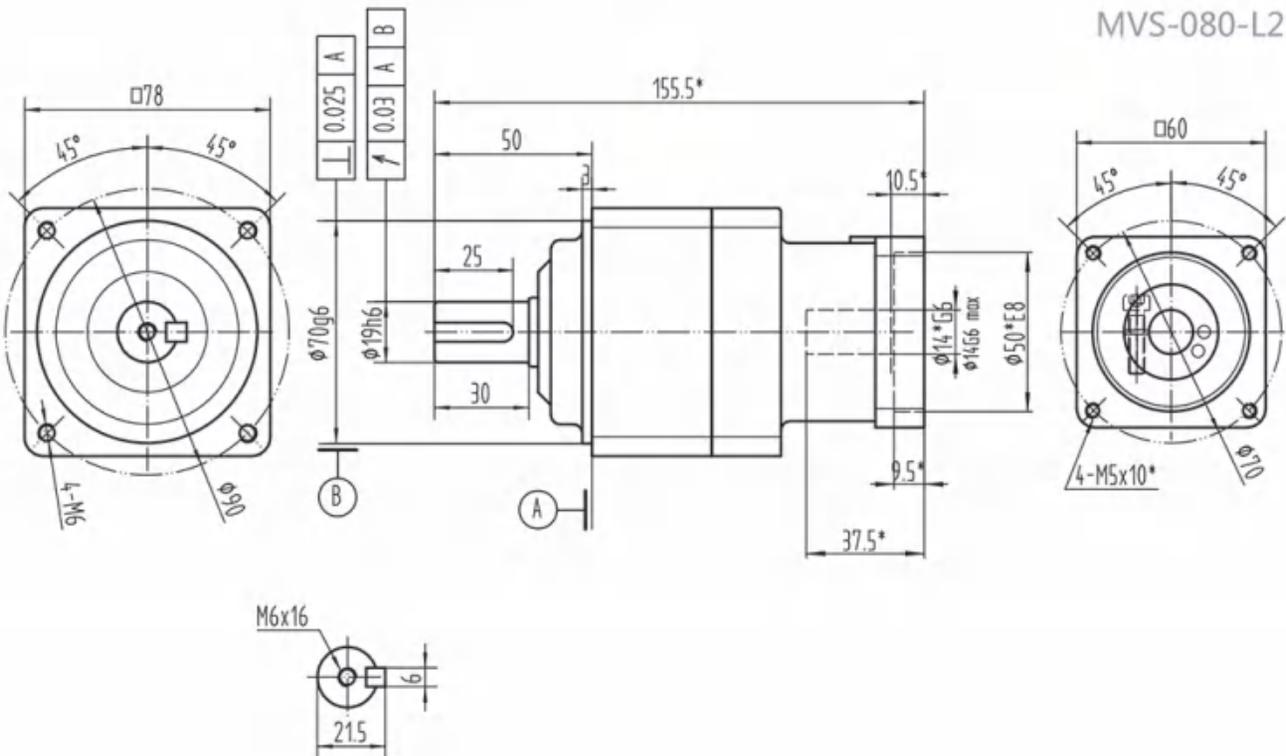
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

Drawing / Size

MVS-080-L1



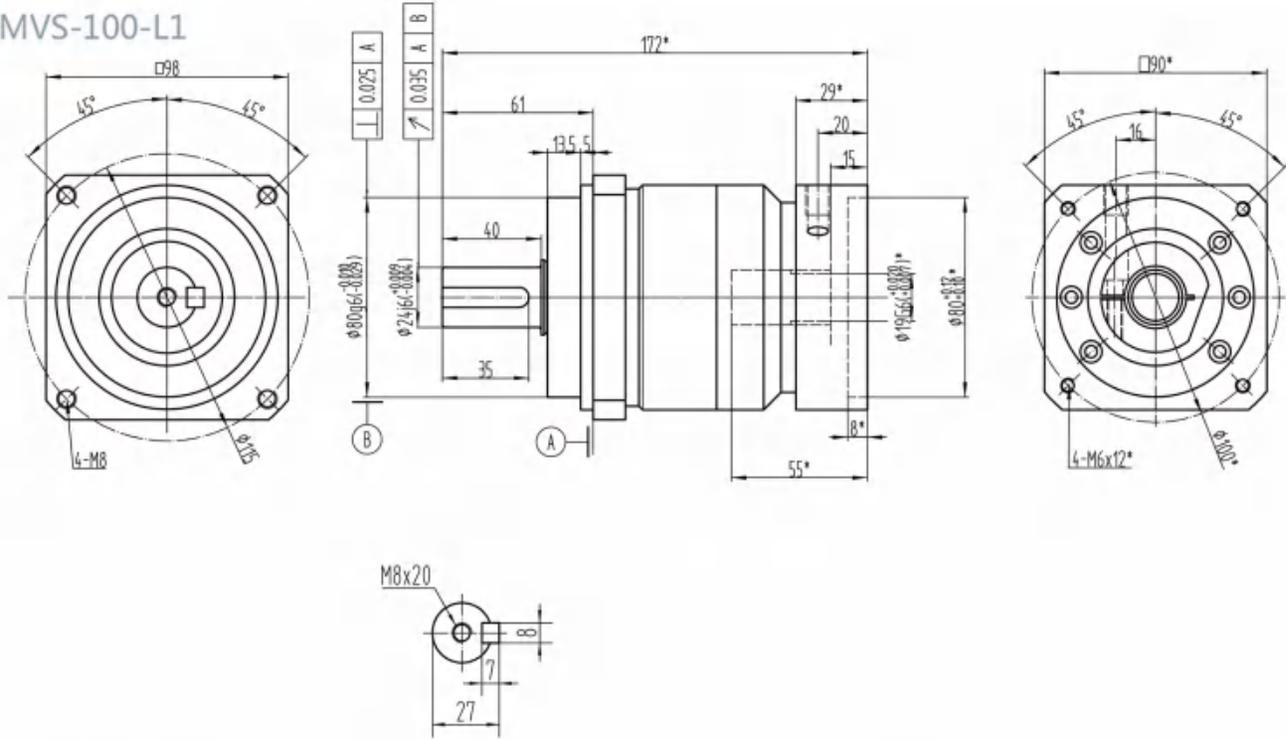
MVS-080-L2



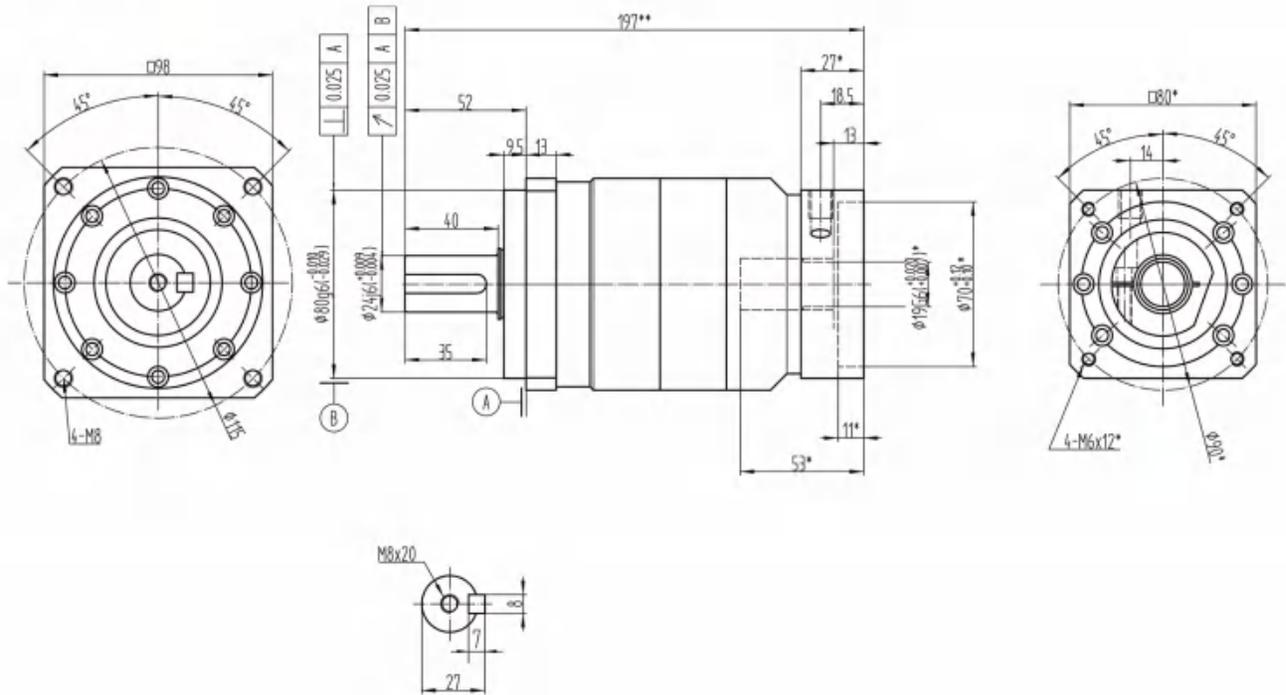
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸: 代表可根据客户需求定制产品, 如有需要, 请联系我们!

## Drawing / Size

MVS-100-L1



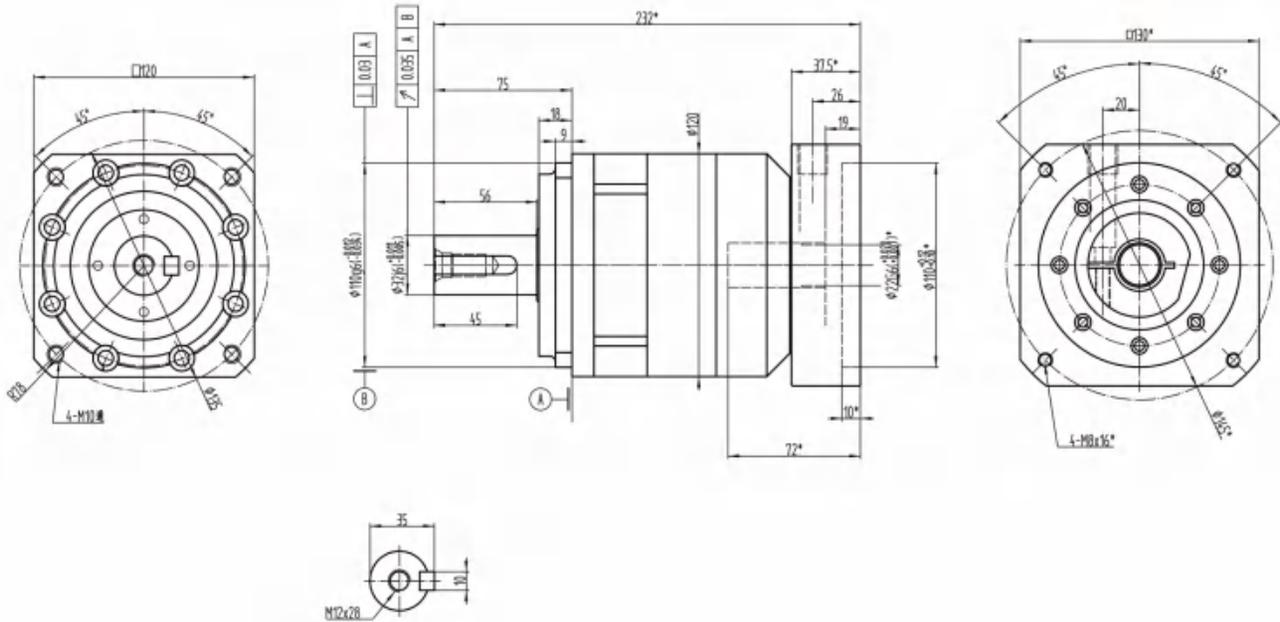
MVS-100-L2



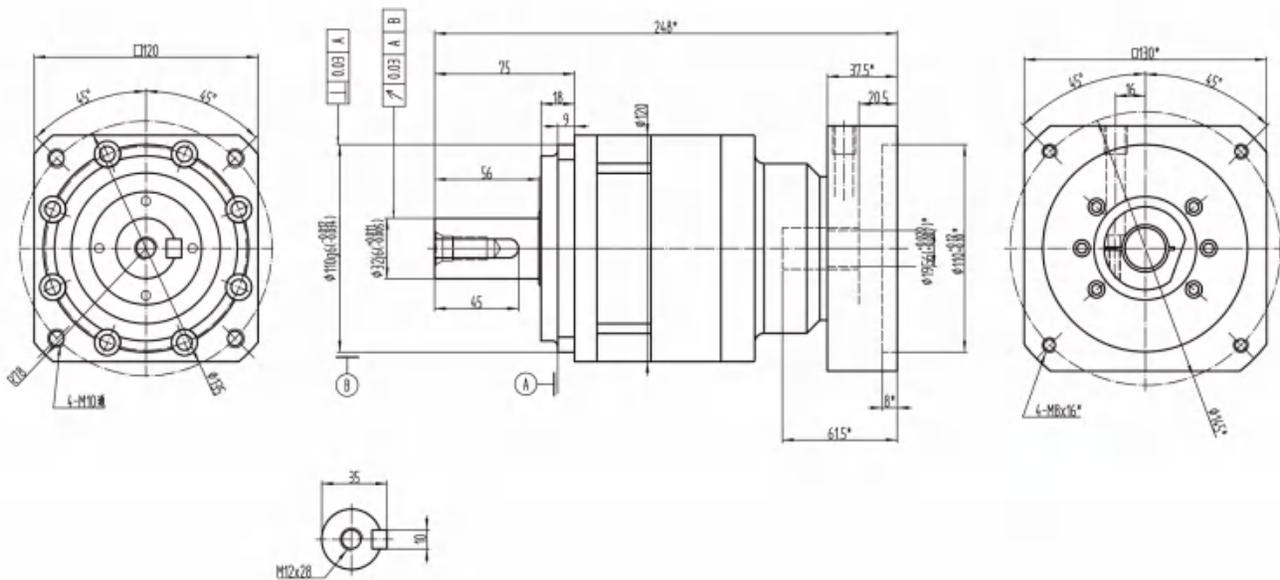
\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Drawing / Size

## MVS-125-L1



## MVS-125-L2



\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Performance table

| MVS-060     |     |                 |                   |                 |                   |                    |                |                     |                   |                   |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|--------------------|----------------|---------------------|-------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>i</sub>     | C <sub>r</sub> | F <sub>200Max</sub> | F <sub>2Max</sub> | J <sub>i</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin             | Nm/arcmin      | N                   | N                 | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3   | 5.2             | 26                | 4000            | 8000              | P3≤<br>Stand<br>标准 | 0.58           | 230                 | 200               | 0.04              | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤73 |
|             | 5   | 5.7             | 26                |                 |                   |                    | 0.58           |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 7   | 5.7             | 26                |                 |                   |                    | 0.58           |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 9   | 5.2             | 26                |                 |                   |                    | 0.52           |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 10  | 5.2             | 26                |                 |                   |                    | 0.52           |                     |                   |                   |     |                |        |                             |      |             |     |
| II<br>STAGE | 12  | 5.2             | 26                |                 |                   |                    | 0.58           |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 15  | 5.2             | 26                |                 |                   |                    | 0.58           |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 20  | 5.2             | 26                |                 |                   |                    | 0.58           |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 25  | 5.7             | 26                |                 |                   |                    | 0.58           |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 35  | 5.7             | 26                |                 |                   |                    | 0.58           |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 45  | 5.7             | 26                | 0.58            |                   |                    |                |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 50  | 5.7             | 26                | 0.58            |                   |                    |                |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 70  | 5.7             | 26                | 0.58            |                   |                    |                |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 81  | 5.7             | 26                | 0.58            |                   |                    |                |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 100 | 5.7             | 26                | 0.58            |                   |                    |                |                     |                   |                   |     |                |        |                             |      |             |     |

| MVS-080     |     |                 |                   |                 |                   |                    |                |                     |                   |                   |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|--------------------|----------------|---------------------|-------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>i</sub>     | C <sub>r</sub> | F <sub>200Max</sub> | F <sub>2Max</sub> | J <sub>i</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin             | Nm/arcmin      | N                   | N                 | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3   | 40              | 190               | 3400            | 6000              | P3≤<br>Stand<br>标准 | 6.1            | 1600                | 1200              | 0.54              | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤73 |
|             | 5   | 40              | 190               |                 |                   |                    | 6.1            |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 7   | 35              | 190               |                 |                   |                    | 5.5            |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 9   | 40              | 190               |                 |                   |                    | 6.1            |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 10  | 40              | 190               |                 |                   |                    | 6.1            |                     |                   |                   |     |                |        |                             |      |             |     |
| II<br>STAGE | 12  | 40              | 190               |                 |                   |                    | 6.1            |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 15  | 40              | 190               |                 |                   |                    | 6.1            |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 20  | 40              | 190               |                 |                   |                    | 6.1            |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 25  | 40              | 190               |                 |                   |                    | 6.1            |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 35  | 35              | 190               |                 |                   |                    | 5.5            |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 45  | 35              | 190               | 5.5             |                   |                    |                |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 50  | 40              | 190               | 6.1             |                   |                    |                |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 70  | 40              | 190               | 6.1             |                   |                    |                |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 81  | 40              | 190               | 6.1             |                   |                    |                |                     |                   |                   |     |                |        |                             |      |             |     |
|             | 100 | 40              | 190               | 6.1             |                   |                    |                |                     |                   |                   |     |                |        |                             |      |             |     |

MVS

## Performance table

| MVS-100     |     |                 |                   |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|----------------|------------------|--------------------|----------------|---------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>N</sub> | n <sub>Max</sub> | J <sub>i</sub>     | C <sub>r</sub> | F <sub>200Max</sub> | F <sub>250Max</sub> | J <sub>i</sub>    | η   | t <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm            | rpm              | arcmin             | Nm/arcmin      | N                   | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3   | 100             | 480               | 2600           | 4800             | P3≤<br>Stand<br>标准 | 16.5           | 2000                | 1000                | 1.8               | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤75 |
|             | 5   | 100             | 480               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 7   | 100             | 480               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 9   | 90              | 480               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 10  | 90              | 480               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
| II<br>STAGE | 12  | 100             | 480               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 15  | 100             | 480               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 20  | 100             | 480               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 25  | 100             | 480               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 35  | 100             | 480               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 45  | 100             | 480               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 50  | 100             | 480               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 70  | 100             | 480               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 81  | 100             | 480               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 100 | 100             | 480               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |

| MVS-125     |     |                 |                   |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|----------------|------------------|--------------------|----------------|---------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>N</sub> | n <sub>Max</sub> | J <sub>i</sub>     | C <sub>r</sub> | F <sub>200Max</sub> | F <sub>250Max</sub> | J <sub>i</sub>    | η   | t <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm            | rpm              | arcmin             | Nm/arcmin      | N                   | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3   | 208             | 624               | 2000           | 4000             | P3≤<br>Stand<br>标准 | 25             | 6700                | 3000                | 3.25              | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤80 |
|             | 4   | 290             | 870               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 5   | 330             | 990               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 7   | 300             | 900               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 10  | 230             | 690               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
| II<br>STAGE | 15  | 208             | 624               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 16  | 220             | 660               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 20  | 290             | 870               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 25  | 330             | 990               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 30  | 310             | 930               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 35  | 300             | 900               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 40  | 260             | 780               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 50  | 330             | 990               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 70  | 300             | 900               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |
|             | 100 | 230             | 690               |                |                  |                    |                |                     |                     |                   |     |                |        |                             |      |             |     |

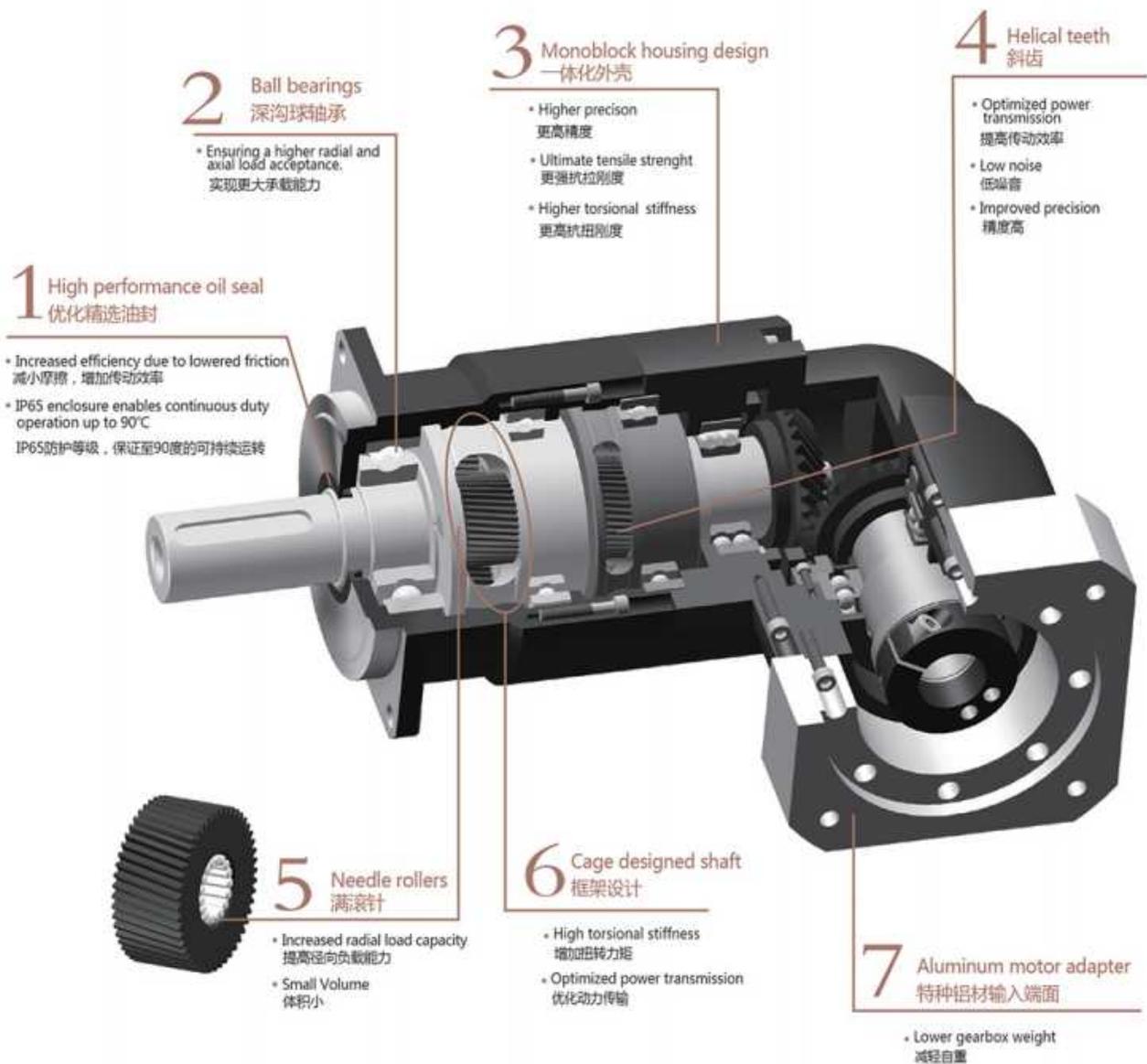
MVS

**MVBR SERIES**



此款应用高端直角解决方案，保持原有MVB系列的设计与性能。

A high-performance right-angle solution for servo applications that keeps MVB's design and characteristics.



### 造型数据:

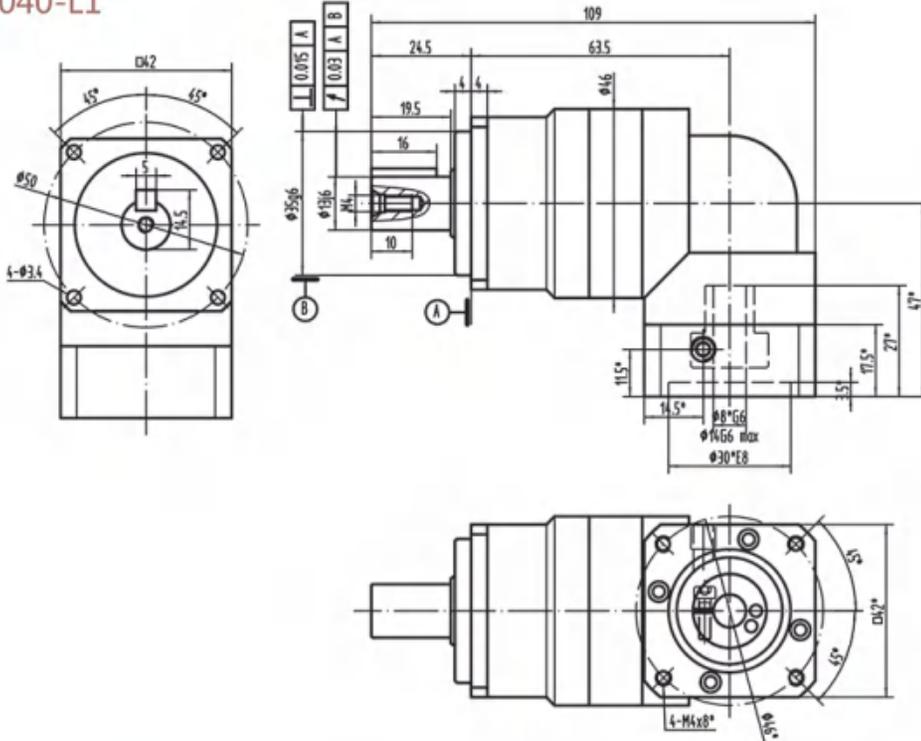
### Selection data:

|               |        |
|---------------|--------|
| 扭矩 ( Nm )     | 14-600 |
| 速比            | 3-100  |
| 背隙 ( arcmin ) | ≤8     |
| 最大工作温度 ( °C ) | 90     |
| 噪音 ( dB )     | 63-74  |

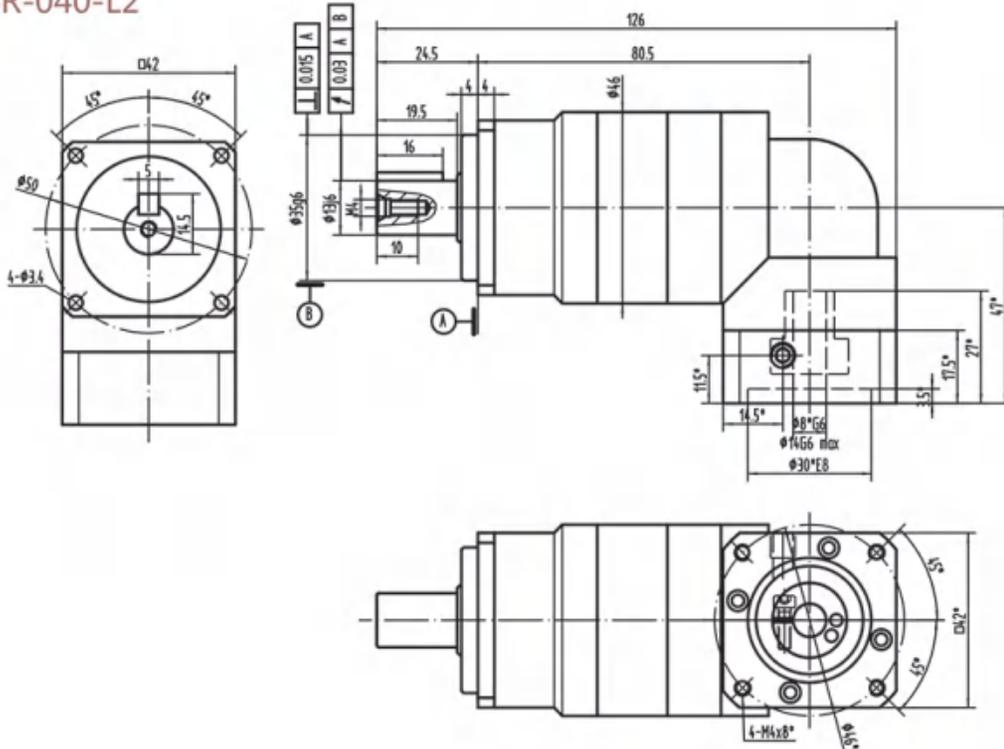
|                                |        |
|--------------------------------|--------|
| Nominal output torque ( Nm )   | 14-600 |
| Reduction ratio                | 3-100  |
| Backlash ( arcmin )            | ≤8     |
| Max.working temperature ( °C ) | 90     |
| Noise ( dB )                   | 63-74  |

## Drawing / Size

### MVBR-040-L1



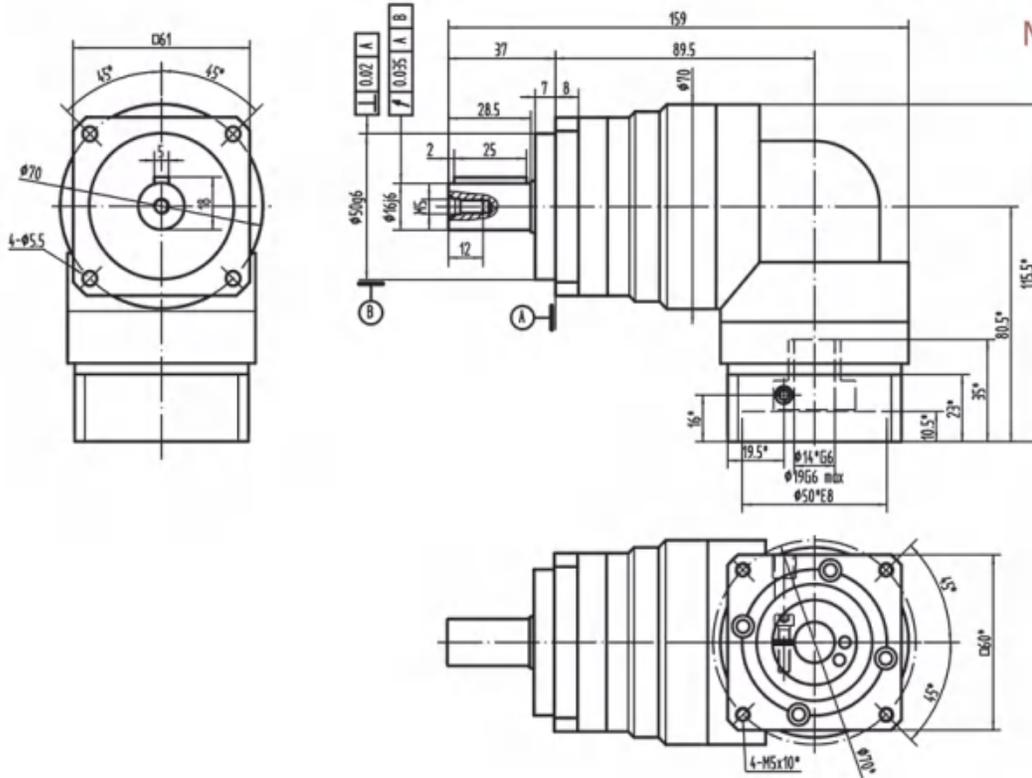
### MVBR-040-L2



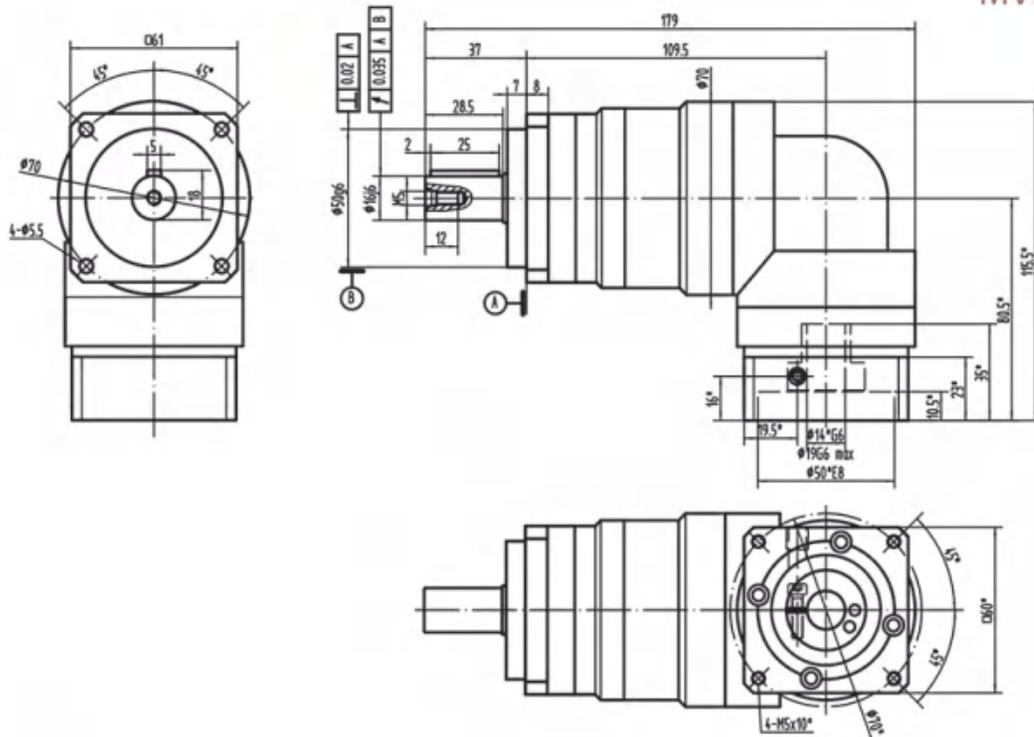
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

Drawing / Size

MVBR-060-L1



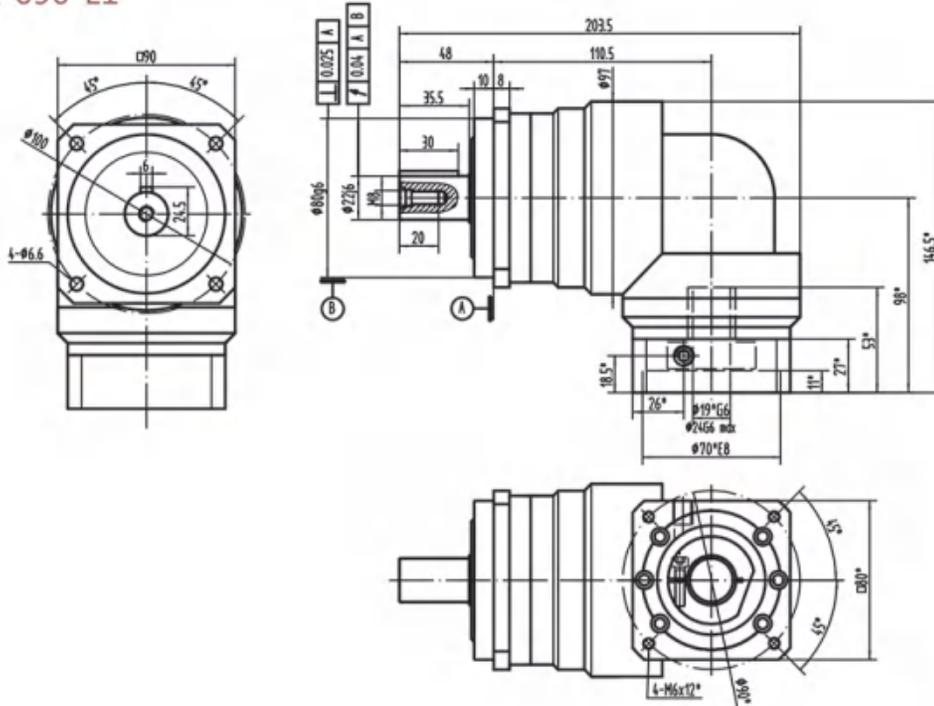
MVBR-060-L2



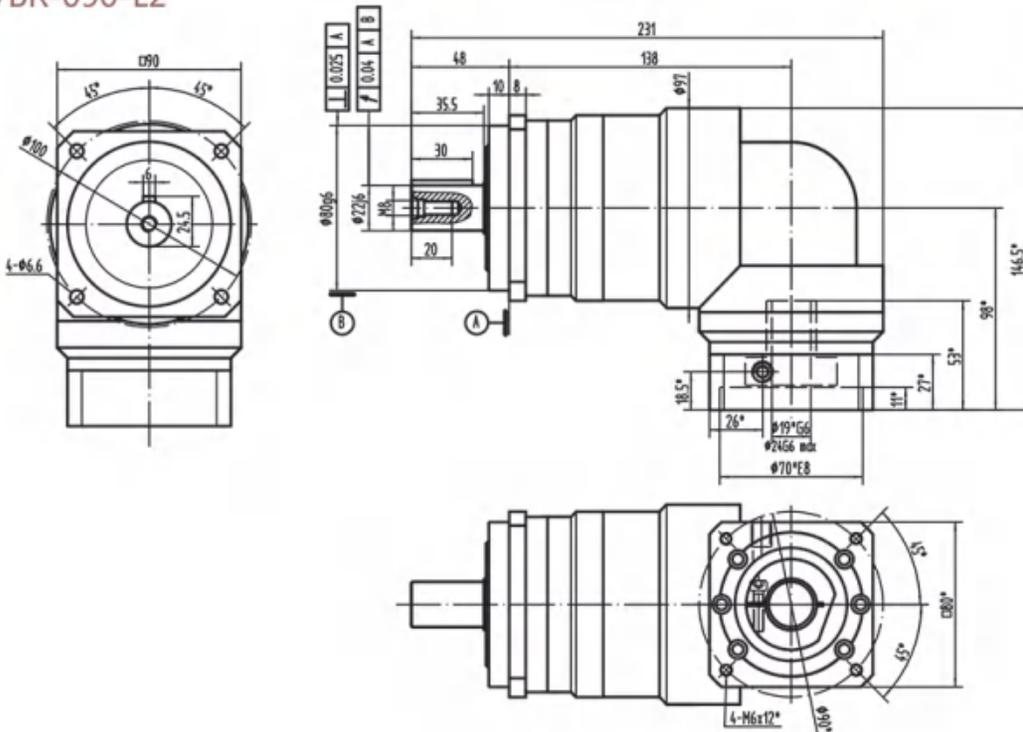
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸: 代表可根据客户需求定制产品, 如有需要, 请联系我们!

## Drawing / Size

### MVBR-090-L1

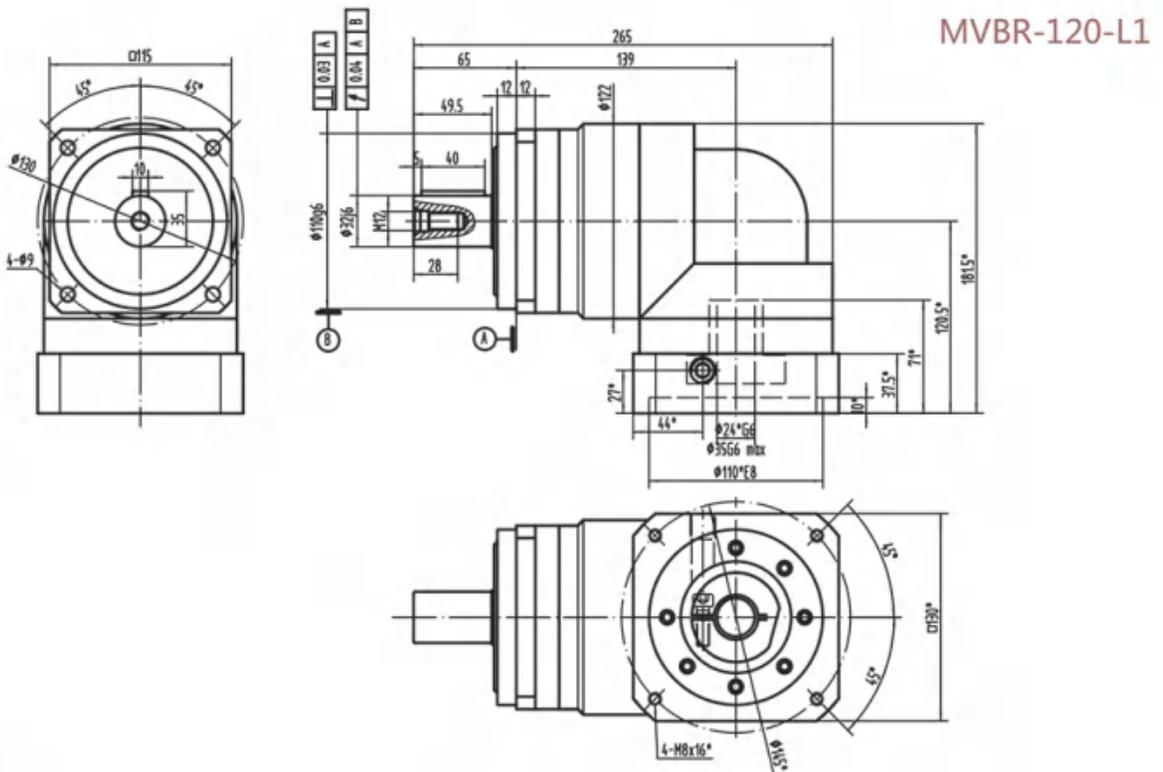
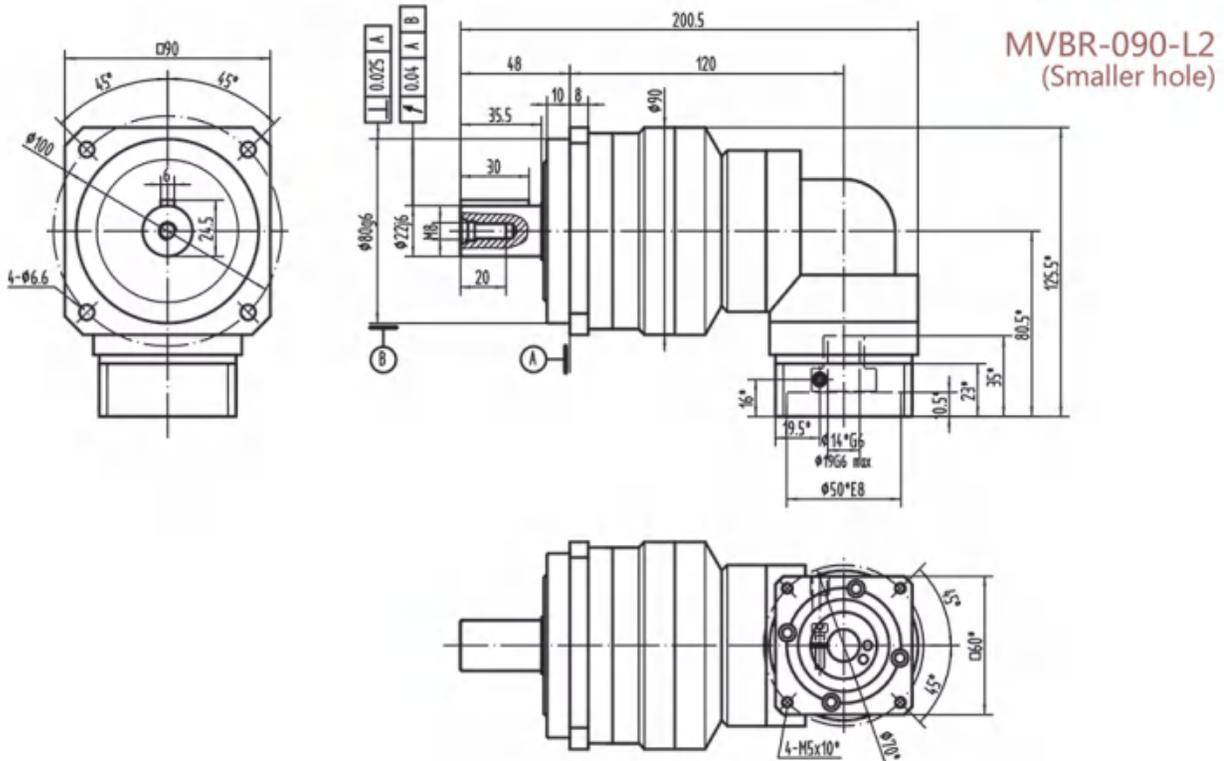


### MVBR-090-L2



\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

Drawing / Size

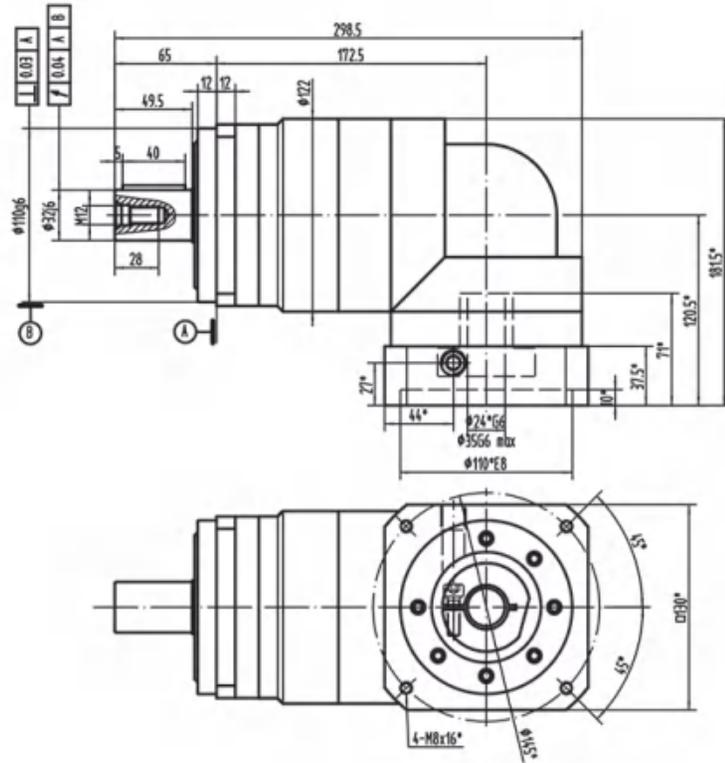
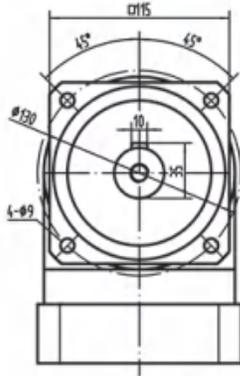


\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸: 代表可根据客户需求定制产品, 如有需要, 请联系我们!

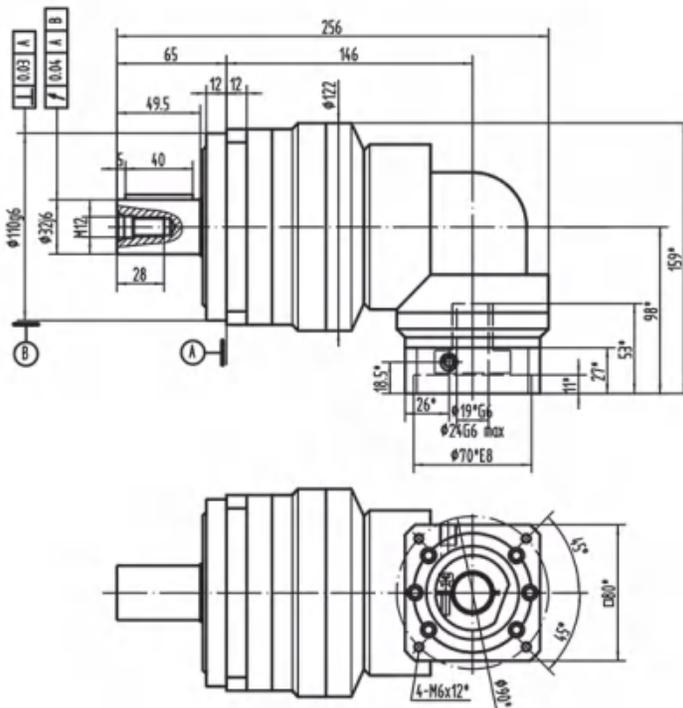
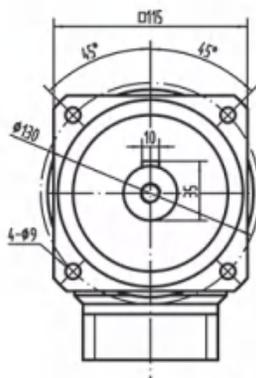
MVBR

## Drawing / Size

### MVBR-120-L2



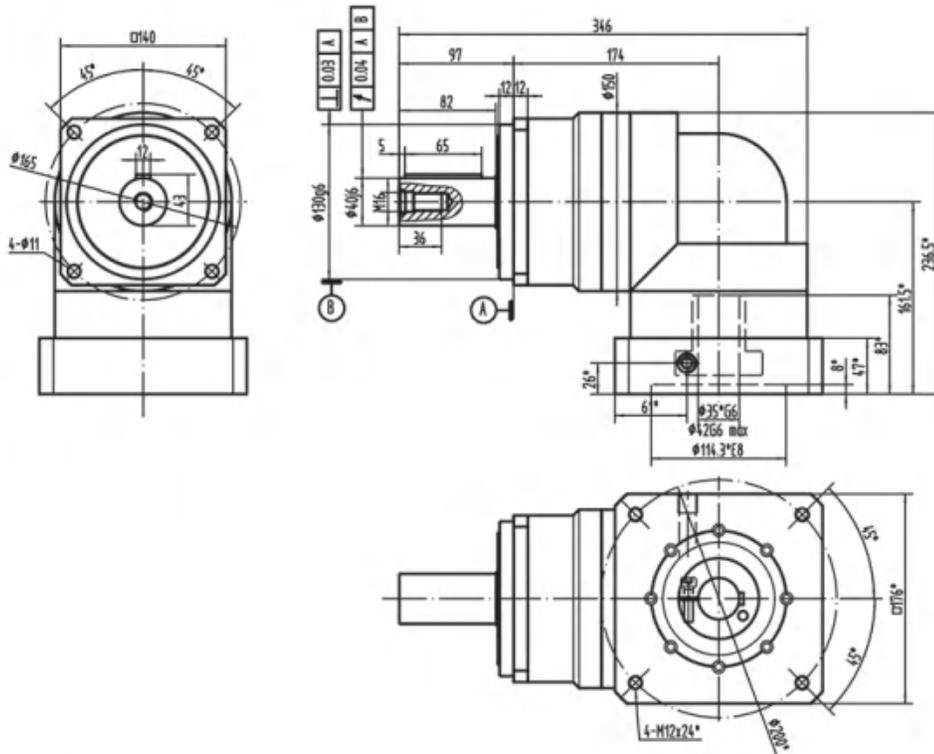
### MVBR-120-L2 (Smaller hole)



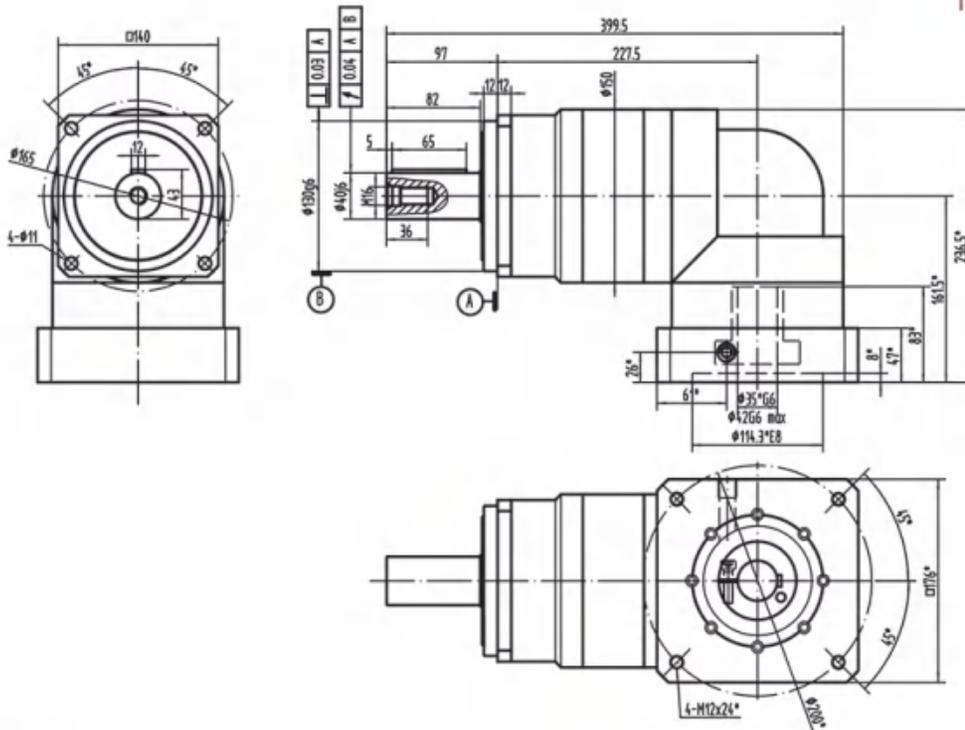
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

Drawing / Size

MVBR-140-L1



MVBR-140-L2

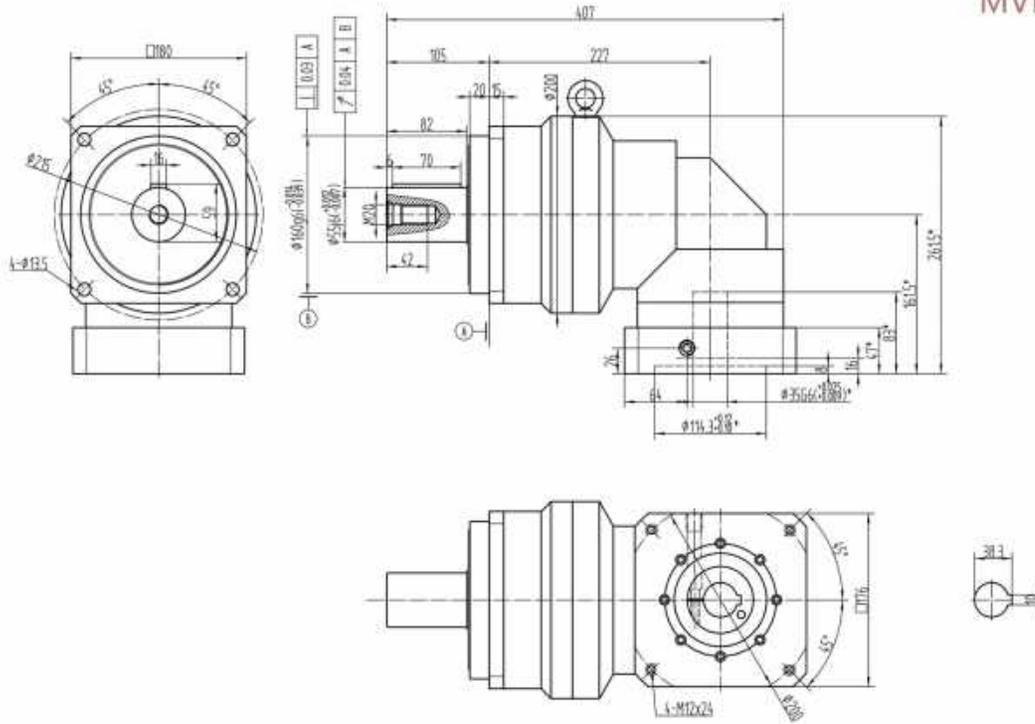


\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸: 代表可根据客户需求定制产品, 如有需要, 请联系我们!

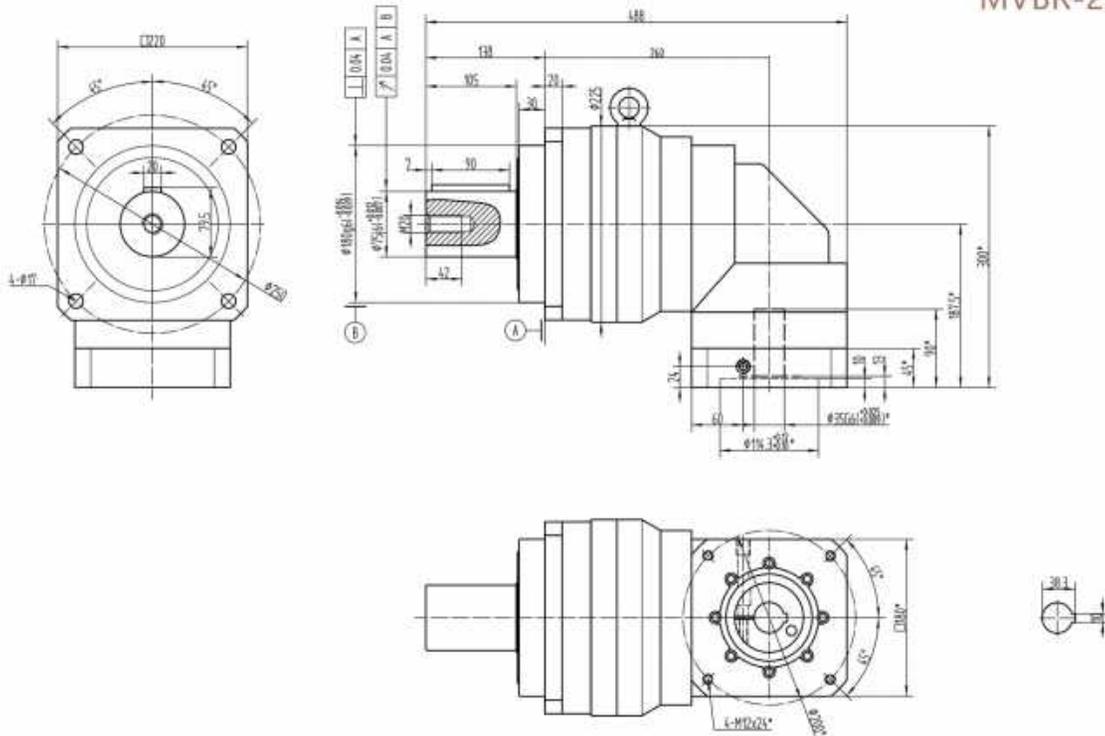


Drawing / Size

MVBR-180-L2



MVBR-220-L2



\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

MVBR

# Performance table

| MVBR-040    |    |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|-------------|----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i  | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1H</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>21</sub> | F <sub>2RMax</sub> | F <sub>2AMax</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |    | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3  | 14              | 2×T <sub>2N</sub> | 4000            | 8000              | ≤3             | 3               | 700                | 610                | 0.03              | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤63 |
|             | 4  | 14              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 5  | 20              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 6  | 20              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 7  | 20              |                   |                 |                   |                | 2.2             |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 8  | 20              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 9  | 14              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |
| II<br>STAGE | 10 | 14              | 2.2               |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 15 | 14              | 3                 |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 20 | 14              | 3                 |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 35 | 20              | 3                 |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 40 | 20              | 3                 |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 50 | 20              | 3                 |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 80 | 20              | 3                 |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
| 100         | 14 | 2.2             |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |

| MVBR-060    |    |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|-------------|----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i  | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1H</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>21</sub> | F <sub>2RMax</sub> | F <sub>2AMax</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |    | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3  | 22              | 2×T <sub>2N</sub> | 3000            | 6000              | ≤8             | 7               | 1200               | 1050               | 0.16              | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤66 |
|             | 4  | 30              |                   |                 |                   |                | 7               |                    |                    | 0.14              |     |                |        |                             |      |             |     |
|             | 5  | 45              |                   |                 |                   |                | 7               |                    |                    | 0.13              |     |                |        |                             |      |             |     |
|             | 6  | 45              |                   |                 |                   |                | 7               |                    |                    | 0.13              |     |                |        |                             |      |             |     |
|             | 7  | 45              |                   |                 |                   |                | 7               |                    |                    | 0.13              |     |                |        |                             |      |             |     |
|             | 8  | 45              |                   |                 |                   |                | 7               |                    |                    | 0.13              |     |                |        |                             |      |             |     |
|             | 9  | 30              |                   |                 |                   |                | 7               |                    |                    | 0.13              |     |                |        |                             |      |             |     |
| II<br>STAGE | 10 | 30              | 7                 | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 15 | 30              | 7                 | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 20 | 30              | 7                 | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 35 | 45              | 7                 | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 40 | 45              | 7                 | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 50 | 45              | 7                 | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 80 | 45              | 7                 | 0.13            |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
| 100         | 30 | 7               | 0.13              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |

## Performance table

| MVBR-090    |     |                 |                   |                 |                   |                |                          |                     |                    |                   |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|--------------------------|---------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>i</sub> | C <sub>2t</sub>          | F <sub>2StMax</sub> | F <sub>2DMax</sub> | J <sub>i</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | N <sub>rev</sub> /arcmin | N                   | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3   | 65              | 2×T <sub>2N</sub> | 3000            | 6000              | ≤8             | 14                       | 2400                | 2200               | 0.61              | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤68 |
|             | 4   | 85              |                   |                 |                   |                | 14                       |                     |                    | 0.48              |     |                |        |                             |      |             |     |
|             | 5   | 90              |                   |                 |                   |                | 14                       |                     |                    | 0.47              |     |                |        |                             |      |             |     |
|             | 6   | 90              |                   |                 |                   |                | 14                       |                     |                    | 0.45              |     |                |        |                             |      |             |     |
|             | 7   | 90              |                   |                 |                   |                | 14                       |                     |                    | 0.45              |     |                |        |                             |      |             |     |
|             | 8   | 90              |                   |                 |                   |                | 14                       |                     |                    | 0.45              |     |                |        |                             |      |             |     |
|             | 9   | 65              |                   |                 |                   |                | 14                       |                     |                    | 0.42              |     |                |        |                             |      |             |     |
|             | 10  | 65              |                   |                 |                   |                | 14                       |                     |                    | 0.40              |     |                |        |                             |      |             |     |
| II<br>STAGE | 15  | 65              |                   |                 |                   |                | 14                       |                     |                    | 0.45              |     |                |        |                             |      |             |     |
|             | 20  | 85              |                   |                 |                   |                | 14                       |                     |                    | 0.45              |     |                |        |                             |      |             |     |
|             | 35  | 90              | 14                | 0.45            |                   |                |                          |                     |                    |                   |     |                |        |                             |      |             |     |
|             | 40  | 90              | 14                | 0.45            |                   |                |                          |                     |                    |                   |     |                |        |                             |      |             |     |
|             | 50  | 90              | 14                | 0.40            |                   |                |                          |                     |                    |                   |     |                |        |                             |      |             |     |
|             | 80  | 90              | 14                | 0.40            |                   |                |                          |                     |                    |                   |     |                |        |                             |      |             |     |
|             | 100 | 65              | 14                | 0.40            |                   |                |                          |                     |                    |                   |     |                |        |                             |      |             |     |

| MVBR-120    |     |                 |                   |                 |                   |                |                          |                     |                    |                   |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|--------------------------|---------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>i</sub> | C <sub>2t</sub>          | F <sub>2StMax</sub> | F <sub>2DMax</sub> | J <sub>i</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | N <sub>rev</sub> /arcmin | N                   | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3   | 150             | 2×T <sub>2N</sub> | 3000            | 6000              | ≤8             | 25                       | 4200                | 3800               | 3.25              | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤72 |
|             | 4   | 200             |                   |                 |                   |                | 25                       |                     |                    | 2.74              |     |                |        |                             |      |             |     |
|             | 5   | 260             |                   |                 |                   |                | 25                       |                     |                    | 2.71              |     |                |        |                             |      |             |     |
|             | 6   | 300             |                   |                 |                   |                | 25                       |                     |                    | 2.71              |     |                |        |                             |      |             |     |
|             | 7   | 300             |                   |                 |                   |                | 25                       |                     |                    | 2.62              |     |                |        |                             |      |             |     |
|             | 8   | 300             |                   |                 |                   |                | 25                       |                     |                    | 2.60              |     |                |        |                             |      |             |     |
|             | 9   | 200             |                   |                 |                   |                | 25                       |                     |                    | 2.59              |     |                |        |                             |      |             |     |
|             | 10  | 200             |                   |                 |                   |                | 25                       |                     |                    | 2.57              |     |                |        |                             |      |             |     |
| II<br>STAGE | 15  | 200             |                   |                 |                   |                | 25                       |                     |                    | 0.45              |     |                |        |                             |      |             |     |
|             | 20  | 300             |                   |                 |                   |                | 25                       |                     |                    | 0.45              |     |                |        |                             |      |             |     |
|             | 35  | 300             | 25                | 0.45            |                   |                |                          |                     |                    |                   |     |                |        |                             |      |             |     |
|             | 40  | 300             | 25                | 0.45            |                   |                |                          |                     |                    |                   |     |                |        |                             |      |             |     |
|             | 50  | 300             | 25                | 0.40            |                   |                |                          |                     |                    |                   |     |                |        |                             |      |             |     |
|             | 80  | 300             | 25                | 0.40            |                   |                |                          |                     |                    |                   |     |                |        |                             |      |             |     |
|             | 100 | 200             | 25                | 0.40            |                   |                |                          |                     |                    |                   |     |                |        |                             |      |             |     |

MVBR

# Performance table

| MVBR-140   |             |                 |                   |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|------|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Net</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>2t</sub> | F <sub>2RMMax</sub> | F <sub>2MMMax</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |      |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                   | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |      |
| I<br>STAGE | 3           | 270             | 2×T <sub>2N</sub> | 2000            | 4000              | ≤8             | 50              | 8500                | 7800                | 9.21              | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤74 |      |
|            | 4           | 350             |                   |                 |                   |                |                 |                     |                     | 7.54              |     |                |        |                             |      |             |     |      |
|            | 5           | 420             |                   |                 |                   |                |                 |                     |                     | 7.42              |     |                |        |                             |      |             |     |      |
|            | 6           | 520             |                   |                 |                   |                |                 |                     |                     | 7.42              |     |                |        |                             |      |             |     |      |
|            | 7           | 600             |                   |                 |                   |                |                 |                     |                     | 7.14              |     |                |        |                             |      |             |     |      |
|            | 8           | 600             |                   |                 |                   |                |                 |                     |                     | 7.14              |     |                |        |                             |      |             |     |      |
|            | 9           | 400             |                   |                 |                   |                |                 |                     |                     | 7.08              |     |                |        |                             |      |             |     |      |
|            | 10          | 400             |                   |                 |                   |                |                 |                     |                     | 7.03              |     |                |        |                             |      |             |     |      |
|            | II<br>STAGE | 15              |                   |                 |                   |                |                 |                     |                     | 400               |     |                |        |                             |      |             |     | 2.63 |
|            |             | 20              |                   |                 |                   |                |                 |                     |                     | 600               |     |                |        |                             |      |             |     | 2.63 |
| 35         |             | 600             | 2.43              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |
| 40         |             | 600             | 2.43              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |
| 50         |             | 600             | 2.39              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |
| 80         |             | 600             | 2.39              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |
| 100        |             | 400             | 2.39              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |      |

| MVBR-180   |             |                 |                   |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Net</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>2t</sub> | F <sub>2RMMax</sub> | F <sub>2MMMax</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                   | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |     |
| I<br>STAGE | 3           | 500             | 2×T <sub>2N</sub> | 2000            | 4000              | ≤8             | 145             | 14500               | 13400               | 28.98             | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤78 |     |
|            | 4           | 900             |                   |                 |                   |                |                 |                     |                     | 23.67             |     |                |        |                             |      |             |     |     |
|            | 5           | 900             |                   |                 |                   |                |                 |                     |                     | 23.29             |     |                |        |                             |      |             |     |     |
|            | 6           | 900             |                   |                 |                   |                |                 |                     |                     | 22.29             |     |                |        |                             |      |             |     |     |
|            | 7           | 900             |                   |                 |                   |                |                 |                     |                     | 22.48             |     |                |        |                             |      |             |     |     |
|            | 8           | 900             |                   |                 |                   |                |                 |                     |                     | 22.48             |     |                |        |                             |      |             |     |     |
|            | 9           | 550             |                   |                 |                   |                |                 |                     |                     | 22.40             |     |                |        |                             |      |             |     |     |
|            | 10          | 550             |                   |                 |                   |                |                 |                     |                     | 22.51             |     |                |        |                             |      |             |     |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                |                 |                     |                     | 880               |     |                |        |                             |      |             |     | 7.3 |
|            |             | 20              |                   |                 |                   |                |                 |                     |                     | 1250              |     |                |        |                             |      |             |     | 7.3 |
| 35         |             | 1300            | 7.1               |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |     |
| 40         |             | 1250            | 6.92              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |     |
| 50         |             | 1300            | 6.92              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |     |
| 80         |             | 1300            | 6.72              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |     |
| 100        |             | 880             | 6.72              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |     |

## Performance table

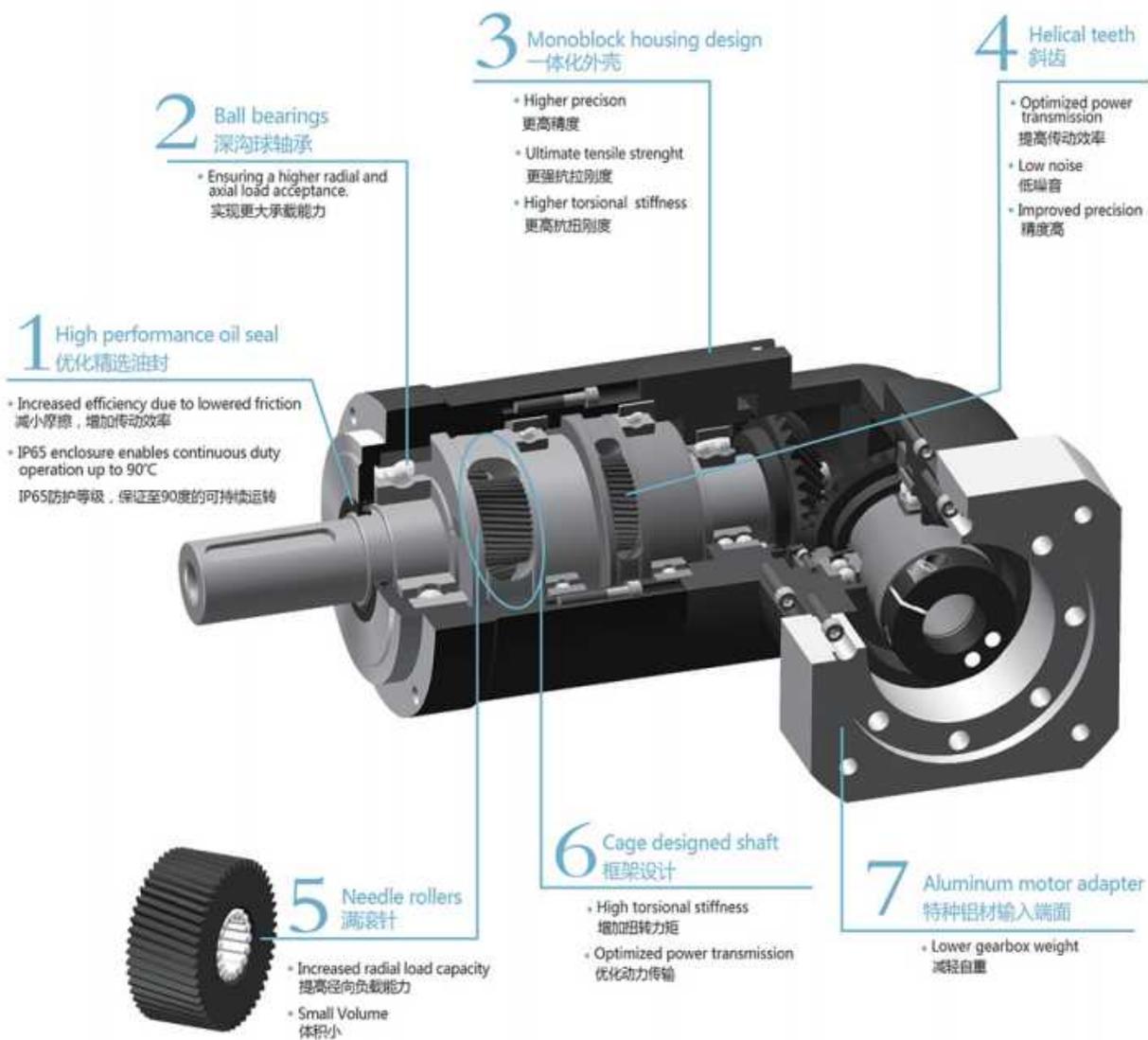
| MVBR-220   |     |                 |                   |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |
|------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i   | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>21</sub> | F <sub>21Max</sub> | F <sub>22Max</sub> | J <sub>1</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit       |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Min/arcmin      | N                  | N                  | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE | 15  | 1200            | 2×T <sub>2N</sub> | 1500            | 3000              | ≤8             | 225             | 20500              | 18800              | 22.79              | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤81 |
|            | 20  | 1700            |                   |                 |                   |                |                 |                    |                    | 23.79              |     |                |        |                             |      |             |     |
|            | 35  | 1800            |                   |                 |                   |                |                 |                    |                    | 22.59              |     |                |        |                             |      |             |     |
|            | 40  | 1800            |                   |                 |                   |                |                 |                    |                    | 21.83              |     |                |        |                             |      |             |     |
|            | 50  | 1800            |                   |                 |                   |                |                 |                    |                    | 21.83              |     |                |        |                             |      |             |     |
|            | 80  | 1800            |                   |                 |                   |                |                 |                    |                    | 21.70              |     |                |        |                             |      |             |     |
|            | 100 | 1200            |                   |                 |                   |                |                 |                    |                    | 21.60              |     |                |        |                             |      |             |     |

# MVER SERIES



此款应用高端直角解决方案，保持原有MVE系列的设计与性能。

A high-performance right-angle solution for servo applications that keeps MVE's design and characteristics.



**造型数据:**  
Selection data:

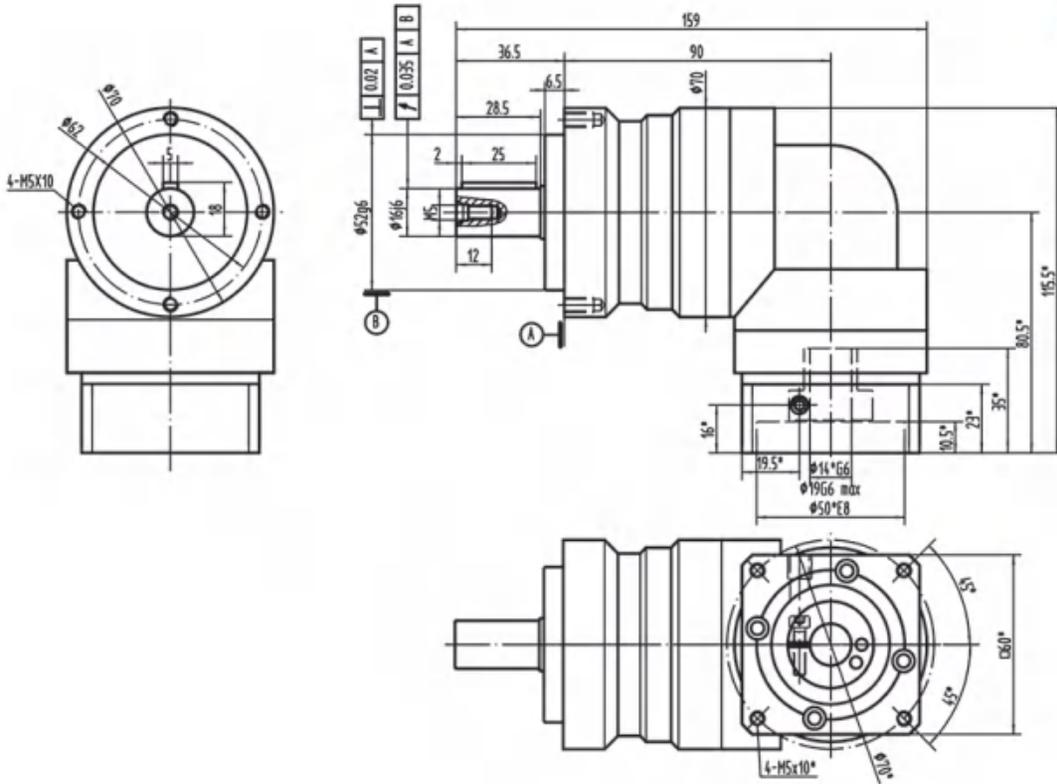
|               |        |
|---------------|--------|
| 扭矩 ( Nm )     | 14-600 |
| 速比            | 3-100  |
| 背隙 ( arcmin ) | ≤8     |
| 最大工作温度 ( °C ) | 90     |
| 噪音 ( dB )     | 63-74  |

|                                |        |
|--------------------------------|--------|
| Nominal output torque ( Nm )   | 14-600 |
| Reduction ratio                | 3-100  |
| Backlash ( arcmin )            | ≤8     |
| Max.working temperature ( °C ) | 90     |
| Noise ( dB )                   | 63-74  |

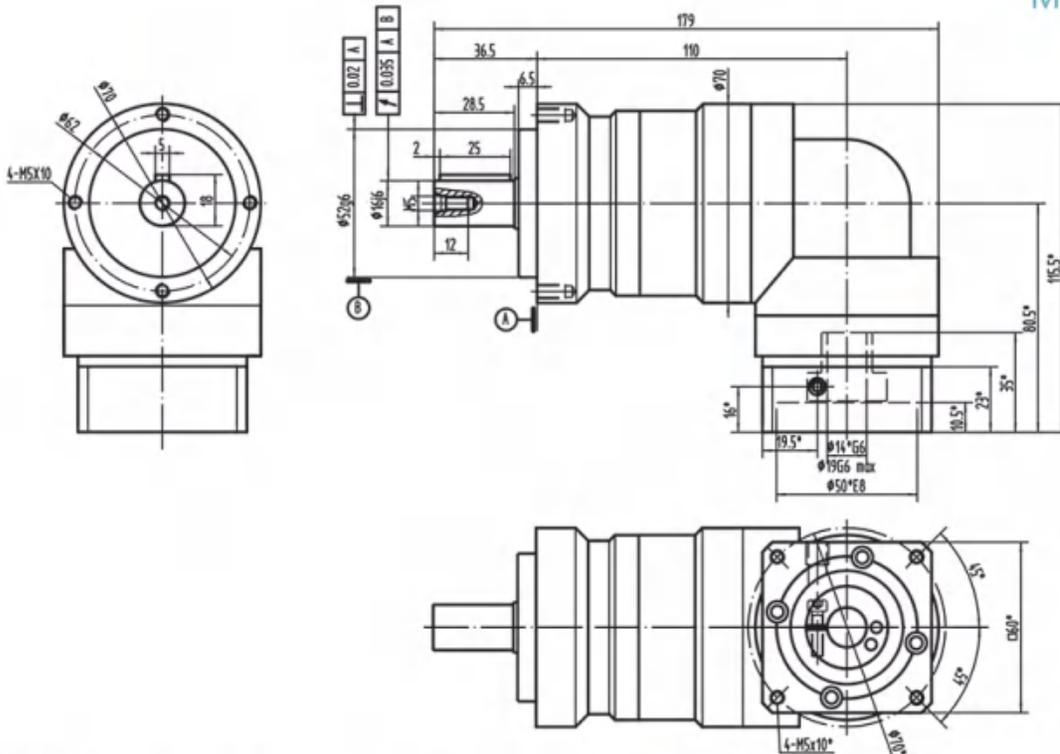


Drawing / Size

MVER-060-L1



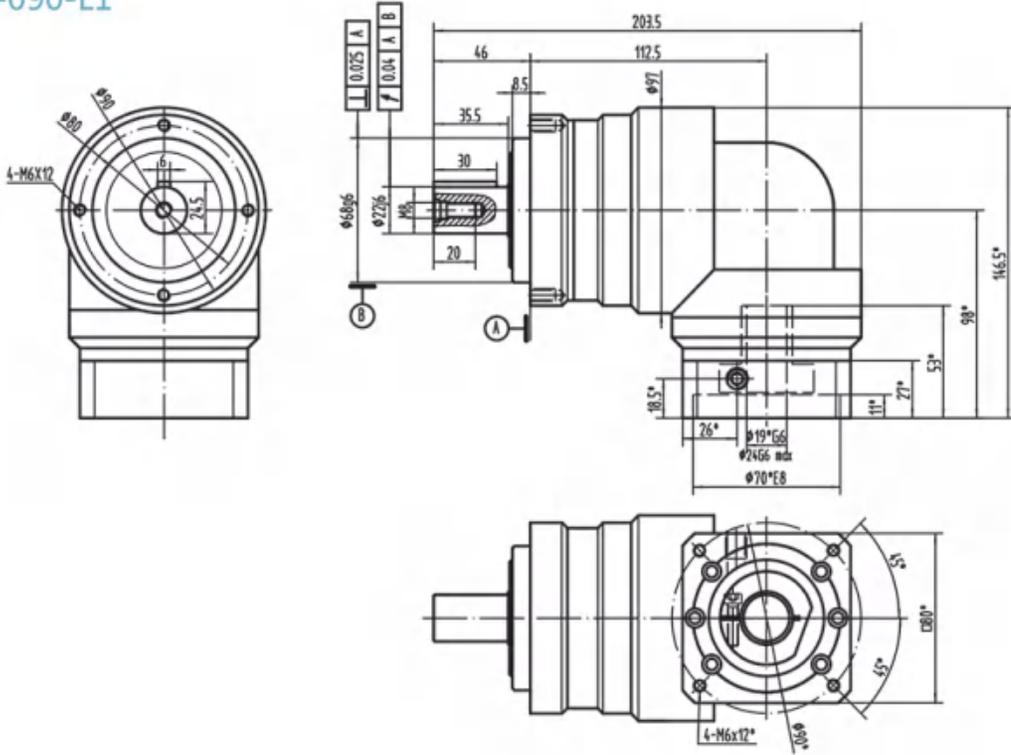
MVER-060-L2



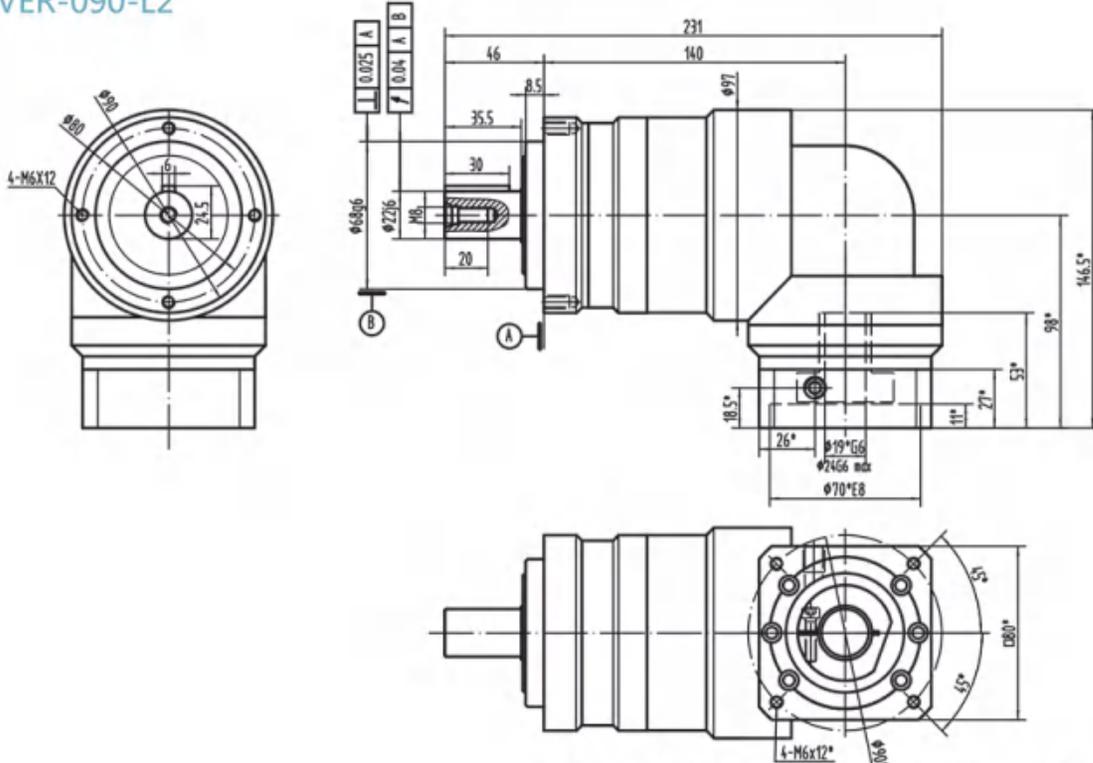
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Drawing / Size

## MVER-090-L1



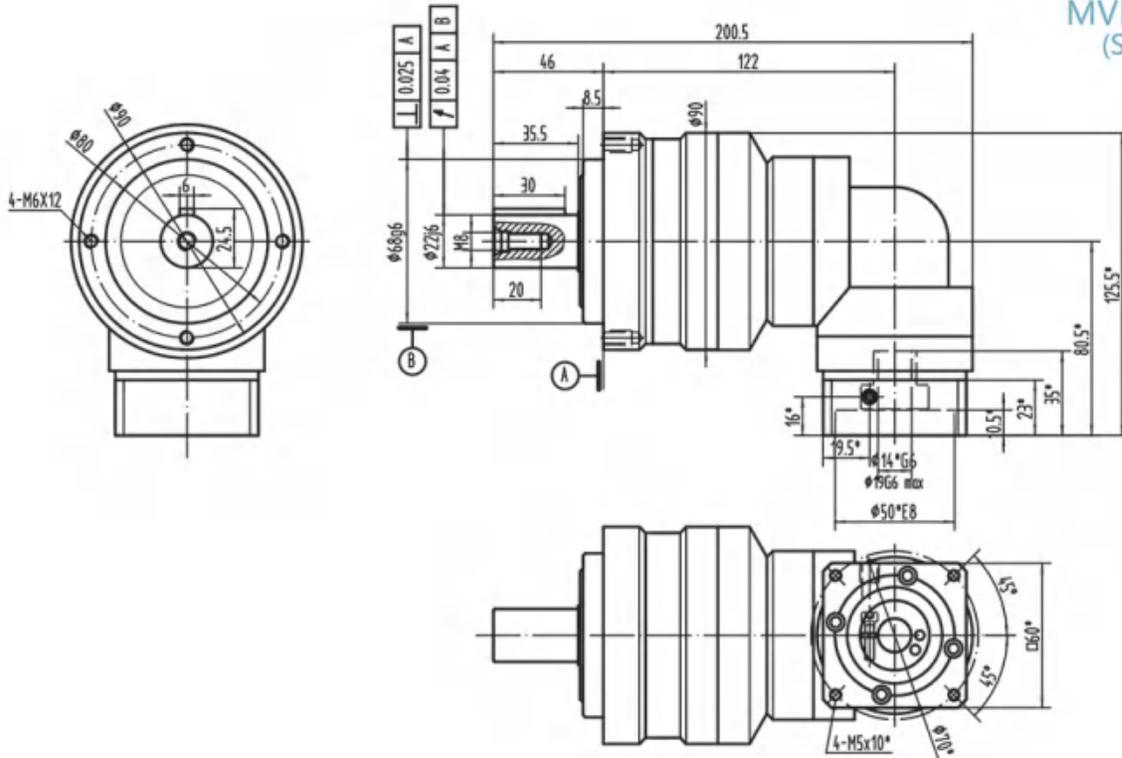
## MVER-090-L2



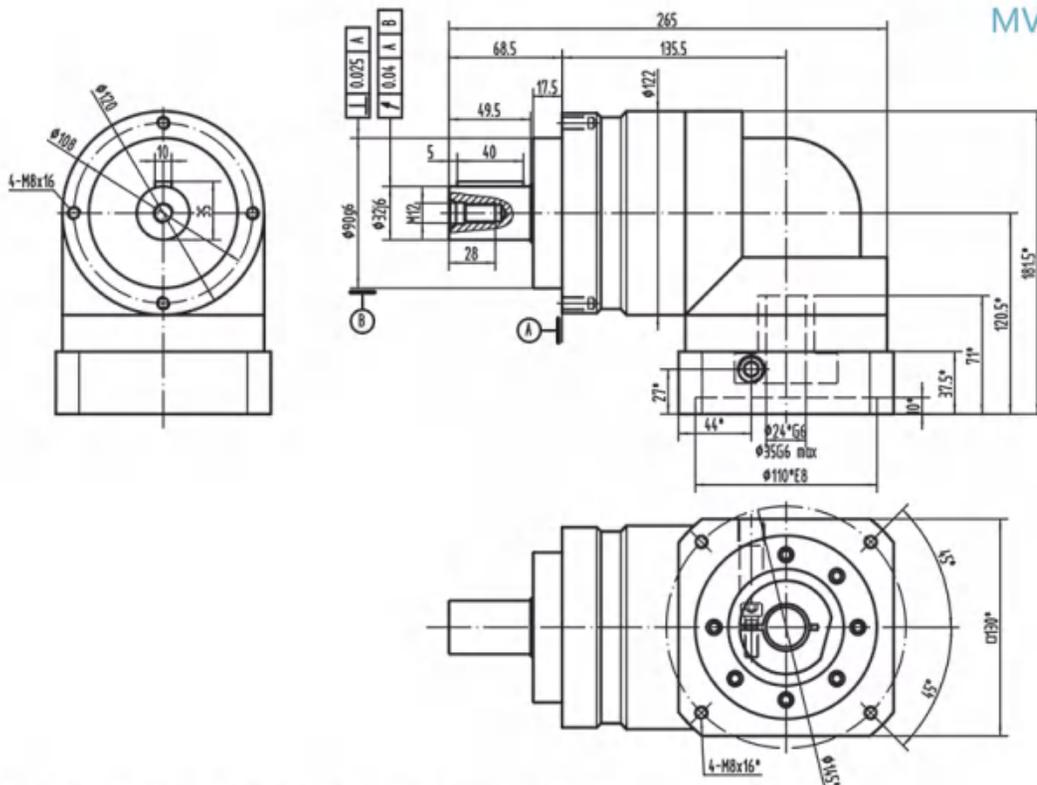
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

Drawing / Size

MVER-090-L2  
(Smaller hole)



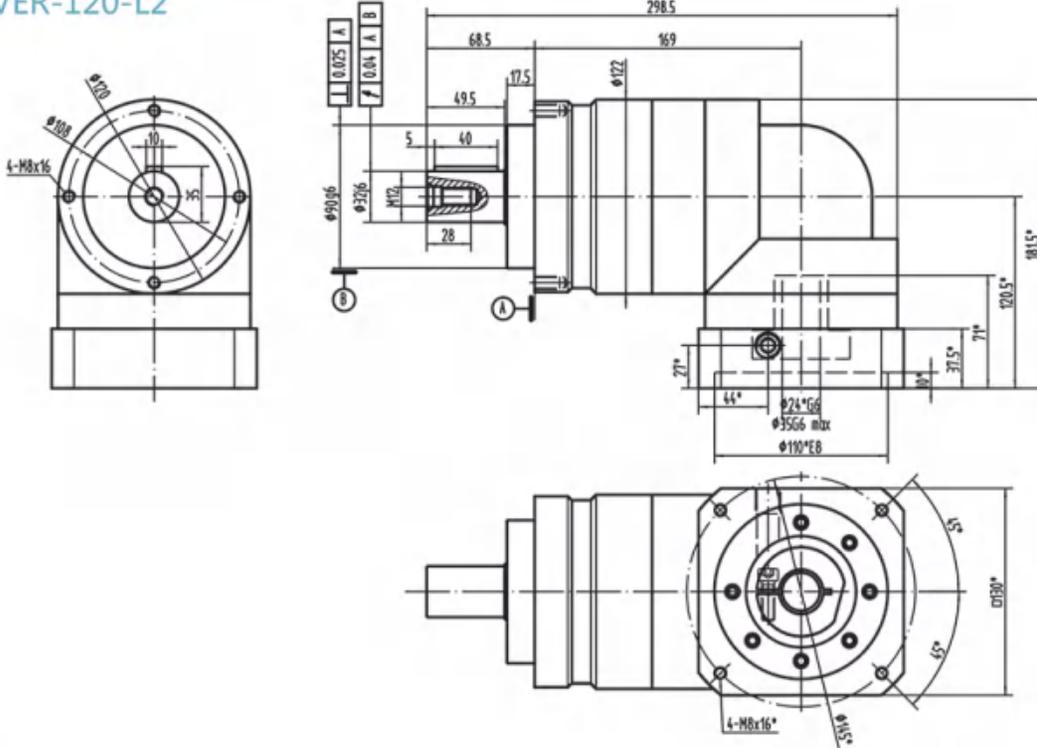
MVER-120-L1



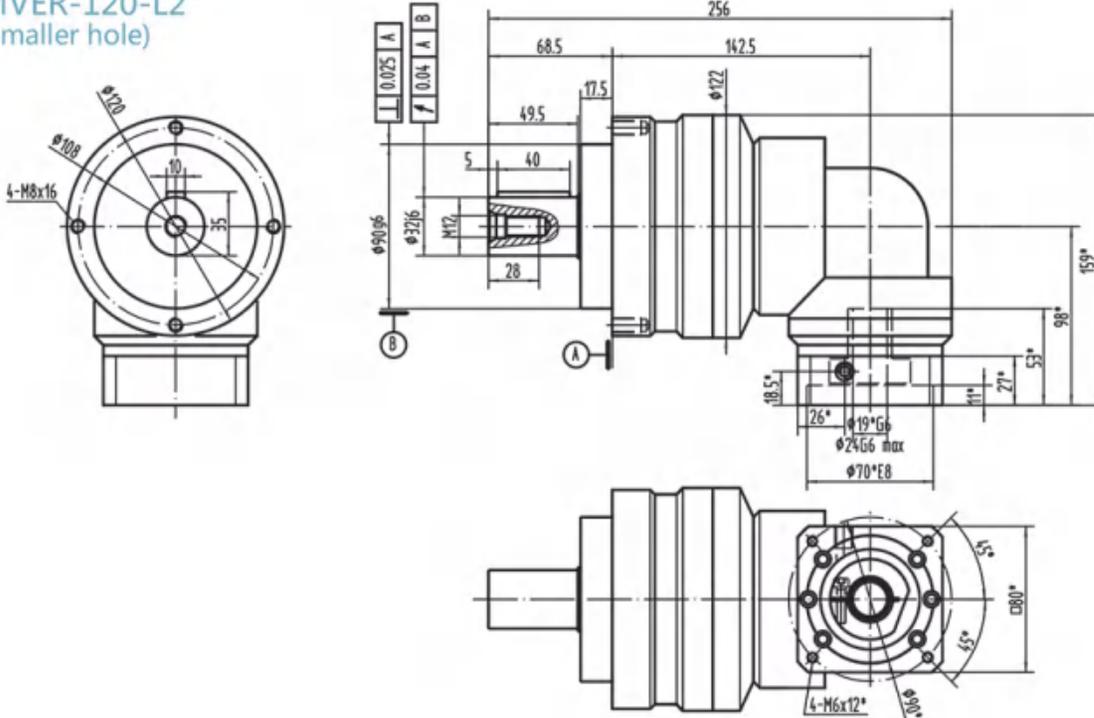
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Drawing / Size

## MVER-120-L2



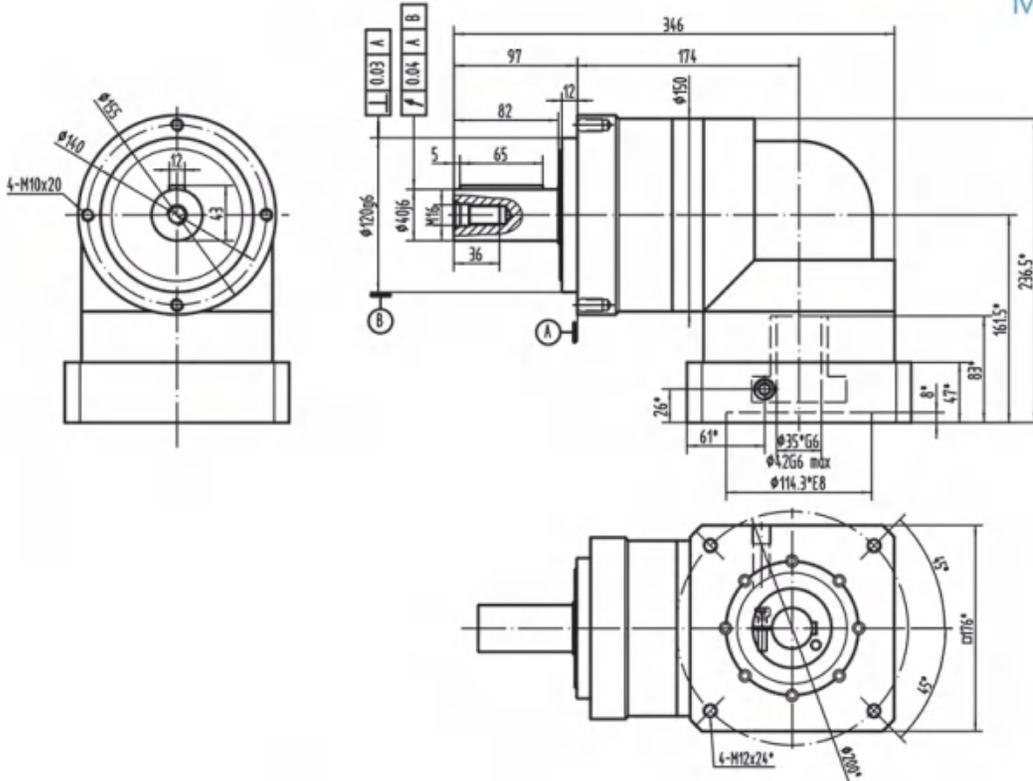
## MVER-120-L2 (Smaller hole)



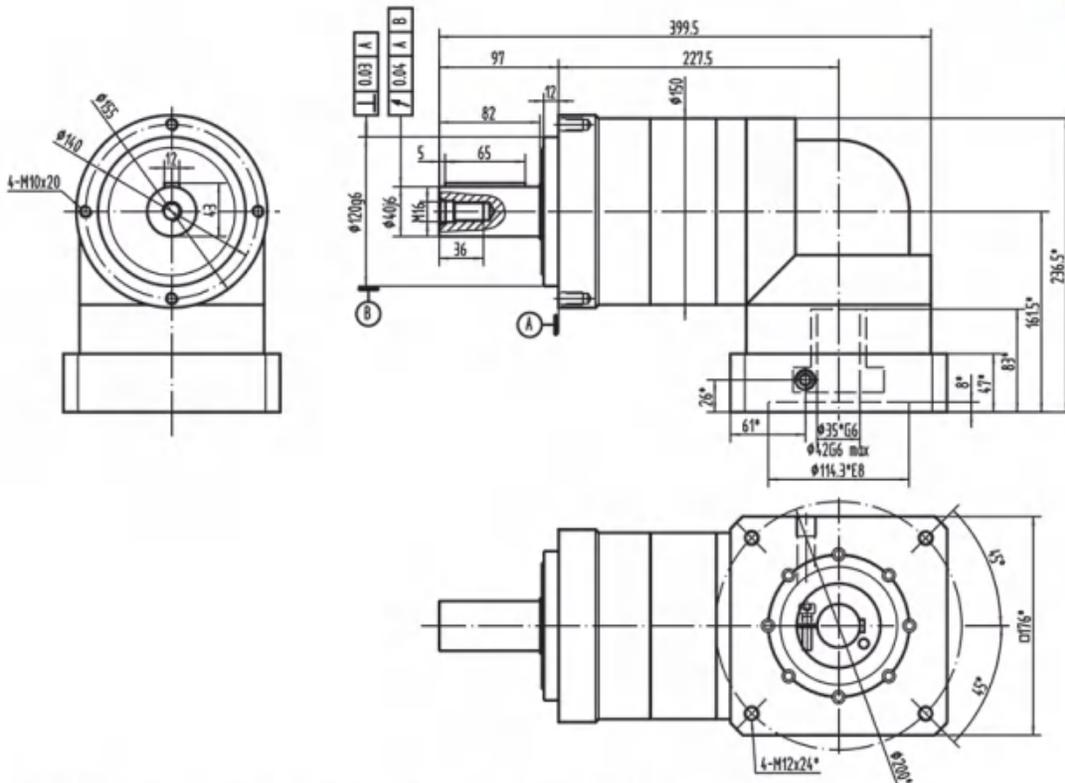
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

Drawing / Size

MVER-155-L1



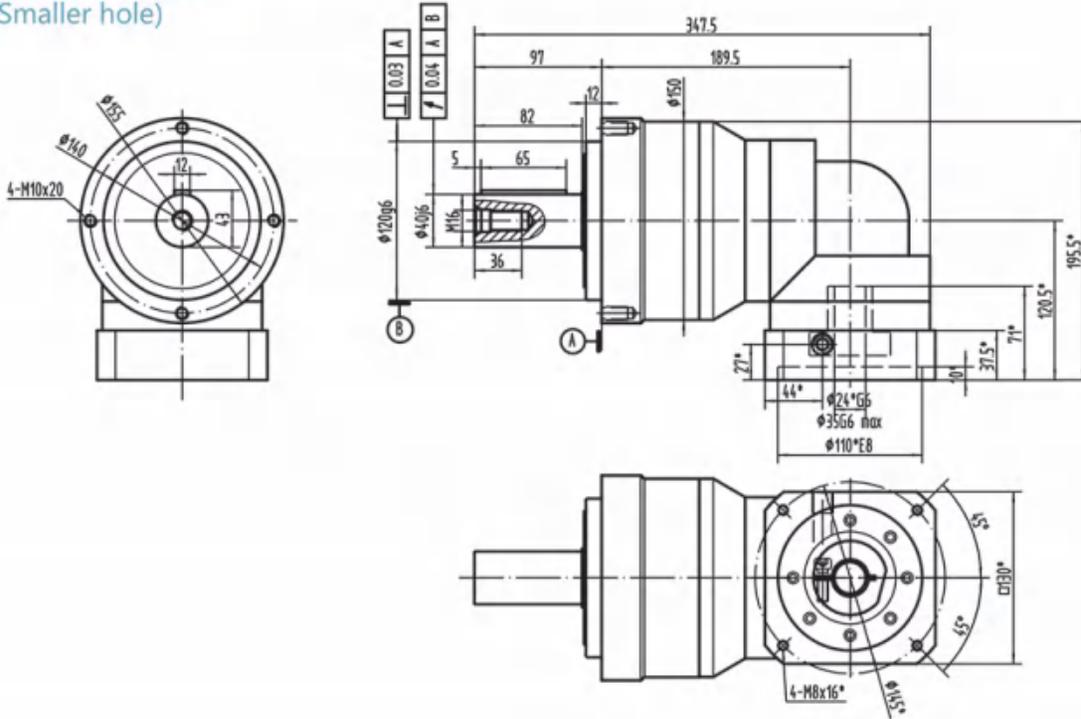
MVER-155-L2



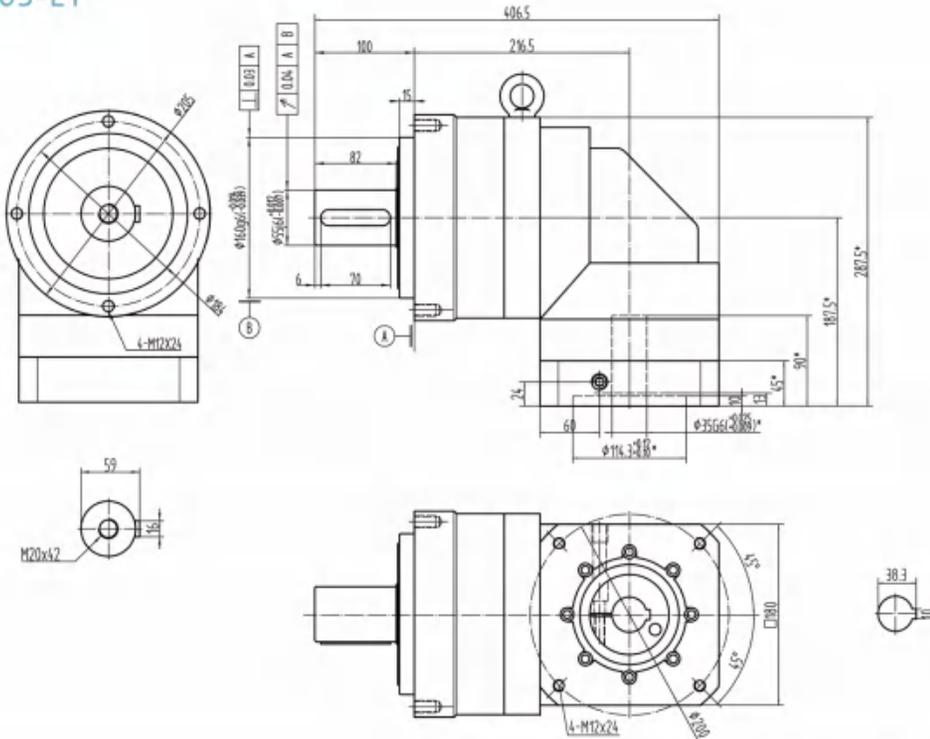
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

## Drawing / Size

### MVER-155-L2 (Smaller hole)



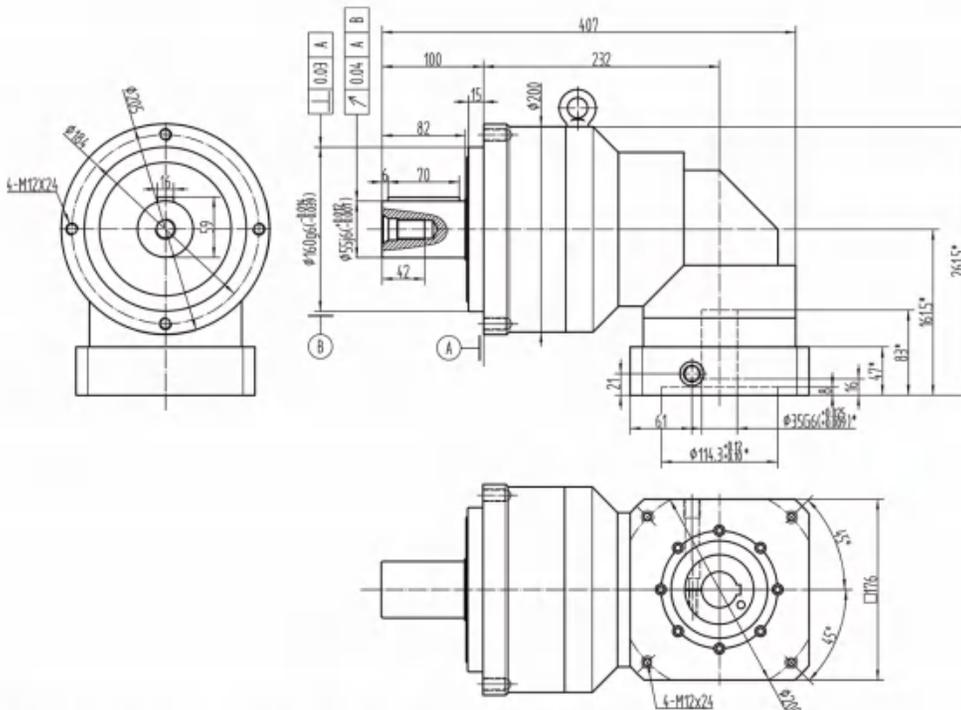
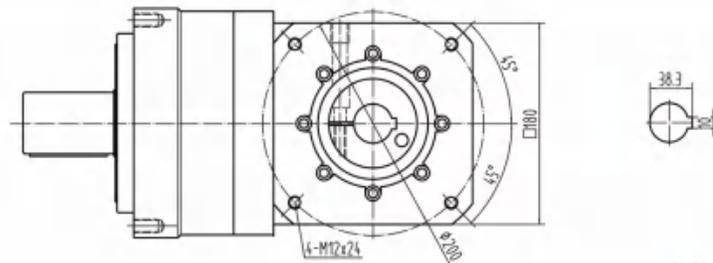
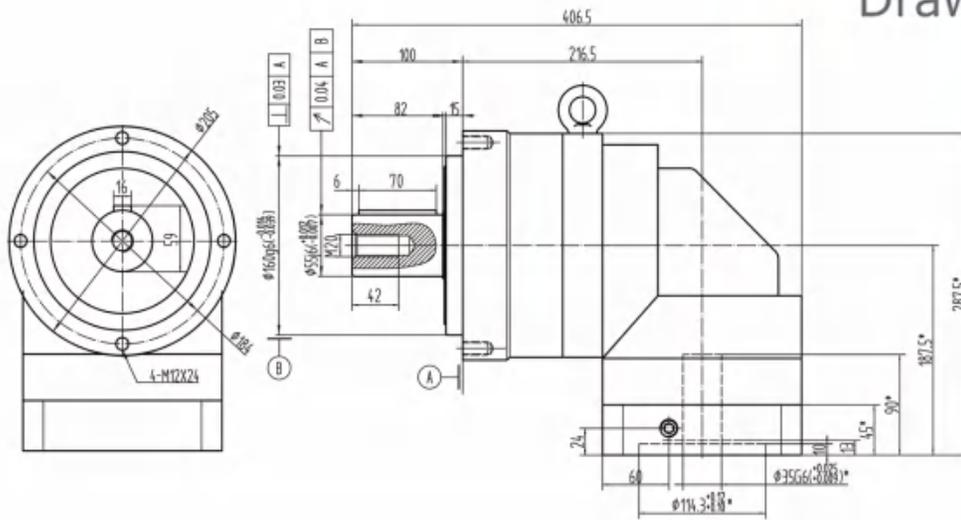
### MVER-205-L1



\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

Drawing / Size

MVER-205-L2



\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

## Performance table

| MVER-040   |             |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |     |     |      |     |        |        |                             |      |             |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|-------------------|------|------|----|---|-----|-----|------|-----|--------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>21</sub> | F <sub>20Max</sub> | F <sub>30Max</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |                   |      |      |    |   |     |     |      |     |        |        |                             |      |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |                   |      |      |    |   |     |     |      |     |        |        |                             |      |             |     |
| I<br>STAGE | 3           | 14              | 2×T <sub>2N</sub> | 4000            | 8000              | ≤3             | 3               | 700                | 610                | 0.03              | ≥95 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤63 |                   |      |      |    |   |     |     |      |     |        |        |                             |      |             |     |
|            | 4           | 14              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |     |     |      |     |        |        |                             |      |             |     |
|            | 5           | 20              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |     |     |      |     |        |        |                             |      |             |     |
|            | 6           | 20              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |     |     |      |     |        |        |                             |      |             |     |
|            | 7           | 20              |                   |                 |                   |                | 2.2             |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |     |     |      |     |        |        |                             |      |             |     |
|            | 8           | 20              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |     |     |      |     |        |        |                             |      |             |     |
|            | 9           | 14              |                   |                 |                   |                | 3               |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |     |     |      |     |        |        |                             |      |             |     |
|            | 10          | 14              |                   |                 |                   |                | 2.2             |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |     |     |      |     |        |        |                             |      |             |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                | 14              |                    |                    |                   |     |                |        |                             |      |             |     | 2×T <sub>2N</sub> | 4000 | 8000 | ≤5 | 3 | 700 | 610 | 0.03 | ≥90 | >20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤63 |
|            |             | 20              |                   |                 |                   |                | 14              |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    | 3 |     |     |      |     |        |        |                             |      |             |     |
| 35         |             | 20              | 3                 |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |     |     |      |     |        |        |                             |      |             |     |
| 40         |             | 20              | 3                 |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |     |     |      |     |        |        |                             |      |             |     |
| 50         |             | 20              | 3                 |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |     |     |      |     |        |        |                             |      |             |     |
| 80         |             | 20              | 3                 |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |     |     |      |     |        |        |                             |      |             |     |
| 100        |             | 14              | 2.2               |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |     |     |      |     |        |        |                             |      |             |     |

| MVER-060   |             |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|-------------------|------|------|----|---|------|------|------|-----|--------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>1</sub> | C <sub>21</sub> | F <sub>20Max</sub> | F <sub>30Max</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |                   |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |                   |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
| I<br>STAGE | 3           | 22              | 2×T <sub>2N</sub> | 3000            | 6000              | ≤8             | 7               | 1200               | 1050               | 0.16              | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤66 |                   |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|            | 4           | 30              |                   |                 |                   |                | 7               |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|            | 5           | 45              |                   |                 |                   |                | 7               |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|            | 6           | 45              |                   |                 |                   |                | 7               |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|            | 7           | 45              |                   |                 |                   |                | 7               |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|            | 8           | 45              |                   |                 |                   |                | 7               |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|            | 9           | 30              |                   |                 |                   |                | 7               |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|            | 10          | 30              |                   |                 |                   |                | 7               |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                | 30              |                    |                    |                   |     |                |        |                             |      |             |     | 2×T <sub>2N</sub> | 3000 | 6000 | ≤8 | 7 | 1200 | 1050 | 0.13 | ≥90 | >20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤66 |
|            |             | 20              |                   |                 |                   |                | 30              |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    | 7 |      |      |      |     |        |        |                             |      |             |     |
| 35         |             | 45              | 7                 |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
| 40         |             | 45              | 7                 |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
| 50         |             | 45              | 7                 |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
| 80         |             | 45              | 7                 |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |
| 100        |             | 30              | 7                 |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |                   |      |      |    |   |      |      |      |     |        |        |                             |      |             |     |

## Performance table

| MVER-090   |             |                 |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     |    |      |      |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|-------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|----|------|------|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>i</sub> | C <sub>2i</sub> | F <sub>2NMax</sub> | F <sub>2Max</sub> | J <sub>i</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |    |      |      |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                  | N                 | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |    |      |      |
| I<br>STAGE | 3           | 65              | 2×T <sub>2N</sub> | 3000            | 6000              | ≤8             | 14              | 2400               | 2200              | 0.61              | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤68 |    |      |      |
|            | 4           | 85              |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 14 | 0.48 |      |
|            | 5           | 90              |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 14 | 0.47 |      |
|            | 6           | 90              |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 14 | 0.47 |      |
|            | 7           | 90              |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 14 | 0.45 |      |
|            | 8           | 90              |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 14 | 0.45 |      |
|            | 9           | 65              |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 14 | 0.42 |      |
|            | 10          | 65              |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 14 | 0.40 |      |
|            | II<br>STAGE | 15              |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 65 | 14   | 0.45 |
|            |             | 20              |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 85 | 14   | 0.45 |
| 35         |             | 90              | 14                | 0.45            |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     |    |      |      |
| 40         |             | 90              | 14                | 0.45            |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     |    |      |      |
| 50         |             | 90              | 14                | 0.45            |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     |    |      |      |
| 80         |             | 90              | 14                | 0.40            |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     |    |      |      |
| 100        |             | 65              | 14                | 0.40            |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     |    |      |      |

| MVER-120   |             |                 |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     |     |      |      |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|-------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|-----|------|------|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>i</sub> | C <sub>2i</sub> | F <sub>2NMax</sub> | F <sub>2Max</sub> | J <sub>i</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |     |      |      |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                  | N                 | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |     |      |      |
| I<br>STAGE | 3           | 150             | 2×T <sub>2N</sub> | 3000            | 6000              | ≤8             | 25              | 4200               | 3800              | 3.25              | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤72 |     |      |      |
|            | 4           | 200             |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 25  | 2.74 |      |
|            | 5           | 260             |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 25  | 2.71 |      |
|            | 6           | 300             |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 25  | 2.71 |      |
|            | 7           | 300             |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 25  | 2.62 |      |
|            | 8           | 300             |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 25  | 2.60 |      |
|            | 9           | 200             |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 25  | 2.59 |      |
|            | 10          | 200             |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 25  | 2.57 |      |
|            | II<br>STAGE | 15              |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 200 | 25   | 0.45 |
|            |             | 20              |                   |                 |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     | 300 | 25   | 0.45 |
| 35         |             | 300             | 25                | 0.45            |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     |     |      |      |
| 40         |             | 300             | 25                | 0.45            |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     |     |      |      |
| 50         |             | 300             | 25                | 0.40            |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     |     |      |      |
| 80         |             | 300             | 25                | 0.40            |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     |     |      |      |
| 100        |             | 200             | 25                | 0.40            |                   |                |                 |                    |                   |                   |     |                |        |                             |      |             |     |     |      |      |

MVER

## Performance table

| MVER-155   |             |                 |                   |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|-------------------|------|------|----|----|------|------|------|-----|--------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>1</sub> | C <sub>21</sub> | F <sub>2RMMax</sub> | F <sub>2AMMax</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                   | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| I<br>STAGE | 3           | 270             | 2×T <sub>2N</sub> | 2000            | 4000              | ≤8             | 50              | 8500                | 7800                | 9.21              | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤74 |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 4           | 350             |                   |                 |                   |                |                 |                     |                     | 7.54              |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 5           | 420             |                   |                 |                   |                |                 |                     |                     | 7.42              |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 6           | 520             |                   |                 |                   |                |                 |                     |                     | 7.42              |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 7           | 600             |                   |                 |                   |                |                 |                     |                     | 7.14              |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 8           | 600             |                   |                 |                   |                |                 |                     |                     | 7.14              |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 9           | 400             |                   |                 |                   |                |                 |                     |                     | 7.08              |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | 10          | 400             |                   |                 |                   |                |                 |                     |                     | 7.03              |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                |                 |                     |                     | 400               |     |                |        |                             |      |             |     | 2×T <sub>2N</sub> | 2000 | 4000 | ≤8 | 50 | 8500 | 7800 | 2.63 | ≥90 | >20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤74 |
|            |             | 20              |                   |                 |                   |                |                 |                     |                     | 520               |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      | 2.63 |     |        |        |                             |      |             |     |
| 35         |             | 600             | 2.43              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| 40         |             | 600             | 2.43              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| 50         |             | 600             | 2.39              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| 80         |             | 600             | 2.39              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |
| 100        |             | 400             | 2.39              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |                   |      |      |    |    |      |      |      |     |        |        |                             |      |             |     |

| MVER-205   |             |                 |                   |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |                   |      |      |    |     |       |       |     |     |        |        |                             |      |             |     |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|-------------------|------|------|----|-----|-------|-------|-----|-----|--------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>1</sub> | C <sub>21</sub> | F <sub>2RMMax</sub> | F <sub>2AMMax</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |                   |      |      |    |     |       |       |     |     |        |        |                             |      |             |     |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                   | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |                   |      |      |    |     |       |       |     |     |        |        |                             |      |             |     |
| I<br>STAGE | 3           | 500             | 2×T <sub>2N</sub> | 2000            | 4000              | ≤8             | 145             | 14500               | 13400               | 28.98             | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤78 |                   |      |      |    |     |       |       |     |     |        |        |                             |      |             |     |
|            | 4           | 900             |                   |                 |                   |                |                 |                     |                     | 23.67             |     |                |        |                             |      |             |     |                   |      |      |    |     |       |       |     |     |        |        |                             |      |             |     |
|            | 5           | 900             |                   |                 |                   |                |                 |                     |                     | 23.29             |     |                |        |                             |      |             |     |                   |      |      |    |     |       |       |     |     |        |        |                             |      |             |     |
|            | 6           | 900             |                   |                 |                   |                |                 |                     |                     | 22.29             |     |                |        |                             |      |             |     |                   |      |      |    |     |       |       |     |     |        |        |                             |      |             |     |
|            | 7           | 900             |                   |                 |                   |                |                 |                     |                     | 22.48             |     |                |        |                             |      |             |     |                   |      |      |    |     |       |       |     |     |        |        |                             |      |             |     |
|            | 8           | 900             |                   |                 |                   |                |                 |                     |                     | 22.48             |     |                |        |                             |      |             |     |                   |      |      |    |     |       |       |     |     |        |        |                             |      |             |     |
|            | 9           | 550             |                   |                 |                   |                |                 |                     |                     | 22.40             |     |                |        |                             |      |             |     |                   |      |      |    |     |       |       |     |     |        |        |                             |      |             |     |
|            | 10          | 550             |                   |                 |                   |                |                 |                     |                     | 22.51             |     |                |        |                             |      |             |     |                   |      |      |    |     |       |       |     |     |        |        |                             |      |             |     |
|            | II<br>STAGE | 15              |                   |                 |                   |                |                 |                     |                     | 880               |     |                |        |                             |      |             |     | 2×T <sub>2N</sub> | 2000 | 4000 | ≤8 | 145 | 14500 | 13400 | 7.3 | ≥90 | >20000 | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤78 |
|            |             | 20              |                   |                 |                   |                |                 |                     |                     | 1250              |     |                |        |                             |      |             |     |                   |      |      |    |     |       |       | 7.3 |     |        |        |                             |      |             |     |
| 35         |             | 1300            | 7.1               |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |                   |      |      |    |     |       |       |     |     |        |        |                             |      |             |     |
| 40         |             | 1250            | 6.92              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |                   |      |      |    |     |       |       |     |     |        |        |                             |      |             |     |
| 50         |             | 1300            | 6.92              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |                   |      |      |    |     |       |       |     |     |        |        |                             |      |             |     |
| 80         |             | 1300            | 6.72              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |                   |      |      |    |     |       |       |     |     |        |        |                             |      |             |     |
| 100        |             | 880             | 6.72              |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |                   |      |      |    |     |       |       |     |     |        |        |                             |      |             |     |

## Performance table

| MVER-235   |     |                 |                   |                 |                    |                |                 |                    |                     |                   |     |                |        |                             |      |             |     |
|------------|-----|-----------------|-------------------|-----------------|--------------------|----------------|-----------------|--------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i   | T <sub>2N</sub> | T <sub>2N01</sub> | n <sub>2N</sub> | n <sub>2NMax</sub> | j <sub>r</sub> | C <sub>2r</sub> | F <sub>2rMax</sub> | F <sub>2rAMax</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          |     |
| Unit       |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm                | arcmin         | Nm/arcmin       | N                  | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             | dB  |
| I<br>STAGE | 15  | 1200            | 2×T <sub>2N</sub> | 1500            | 3000               | ≤8             | 225             | 20500              | 18800               | 22.79             | ≥90 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤81 |
|            | 20  | 1700            |                   |                 |                    |                |                 |                    |                     | 23.79             |     |                |        |                             |      |             |     |
|            | 35  | 1800            |                   |                 |                    |                |                 |                    |                     | 22.59             |     |                |        |                             |      |             |     |
|            | 40  | 1800            |                   |                 |                    |                |                 |                    |                     | 21.83             |     |                |        |                             |      |             |     |
|            | 50  | 1800            |                   |                 |                    |                |                 |                    |                     | 21.83             |     |                |        |                             |      |             |     |
|            | 80  | 1800            |                   |                 |                    |                |                 |                    |                     | 21.70             |     |                |        |                             |      |             |     |
|            | 100 | 1200            |                   |                 |                    |                |                 |                    |                     | 21.60             |     |                |        |                             |      |             |     |

**MVDR SERIES**



此款应用高端直角解决方案，保持原有MVD系列的设计与性能。

A high-performance right-angle solution for servo applications that keeps MVD's design and characteristics.



### 造型数据:

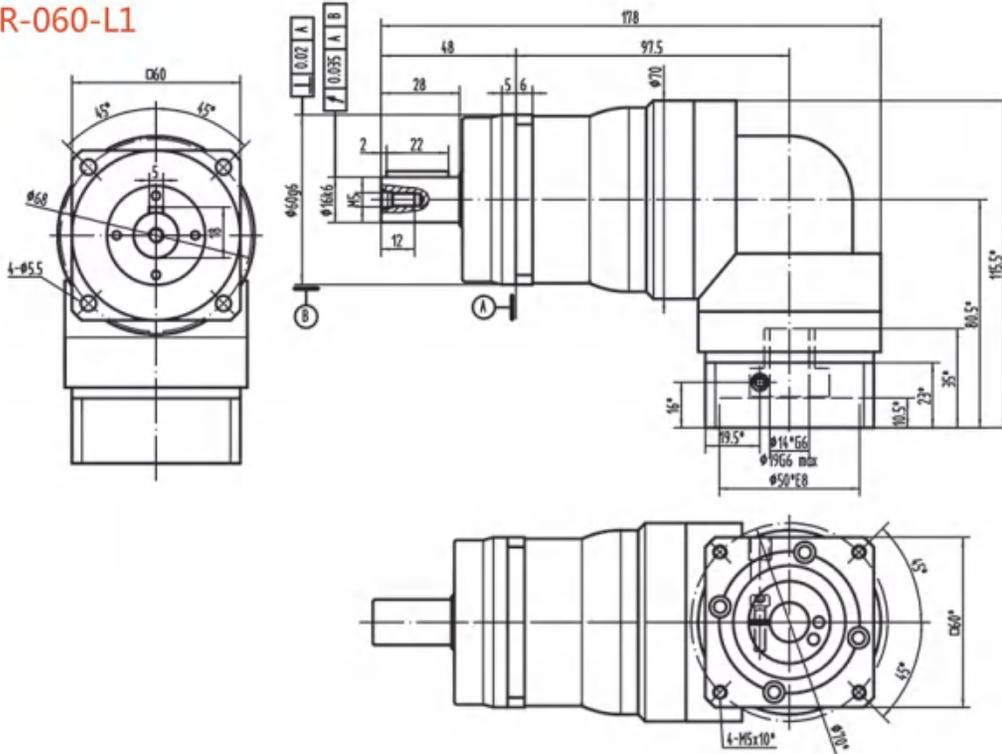
### Selection data:

|               |        |
|---------------|--------|
| 扭矩 ( Nm )     | 22-600 |
| 速比            | 3-100  |
| 背隙 ( arcmin ) | ≤8     |
| 最大工作温度 ( °C ) | 90     |
| 噪音 ( dB )     | 66-74  |

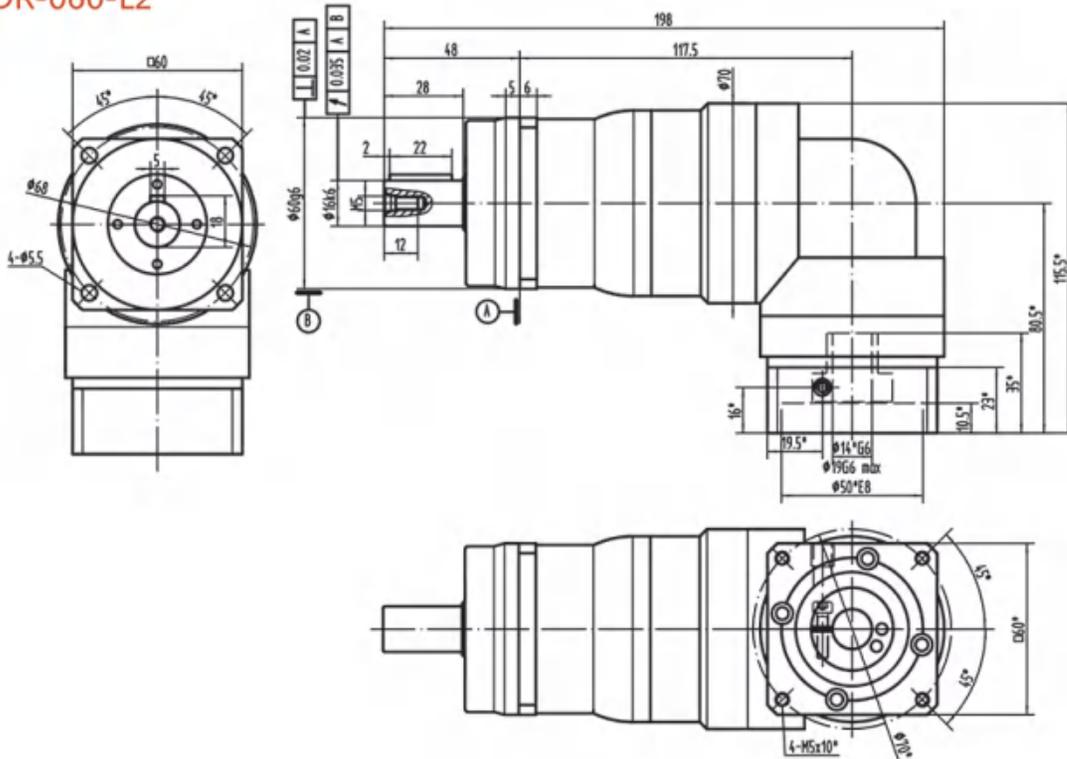
|                                |        |
|--------------------------------|--------|
| Nominal output torque ( Nm )   | 22-600 |
| Reduction ratio                | 3-100  |
| Backlash ( arcmin )            | ≤8     |
| Max.working temperature ( °C ) | 90     |
| Noise ( dB )                   | 66-74  |

Drawing / Size

MVDR-060-L1



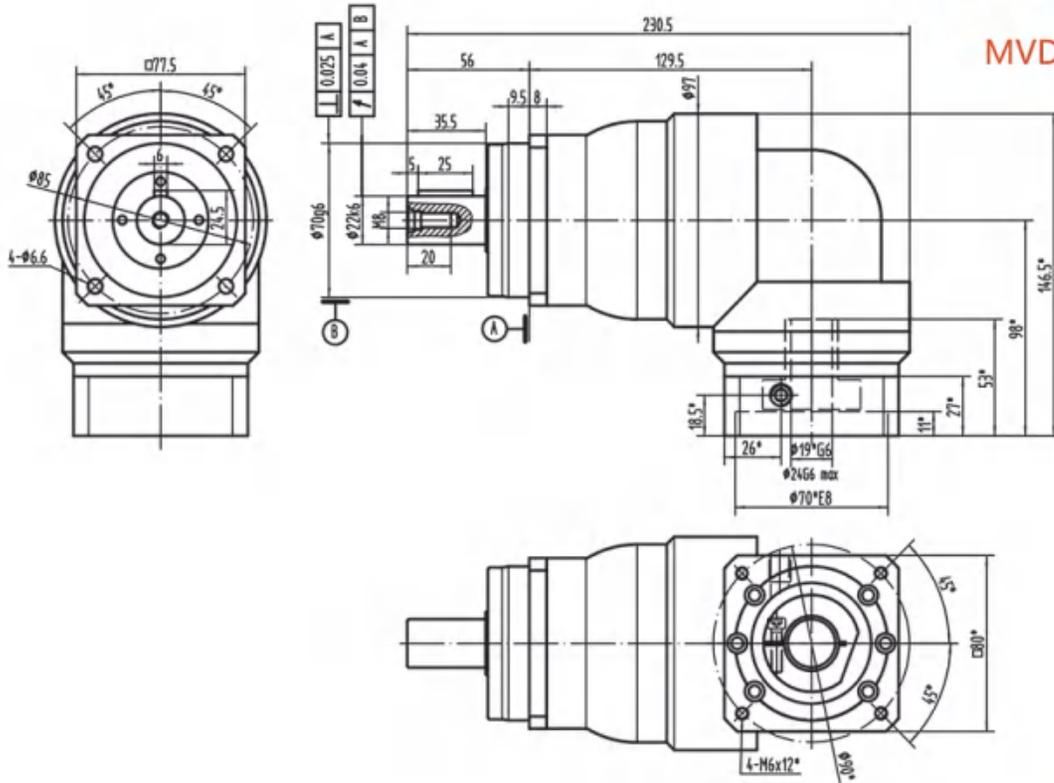
MVDR-060-L2



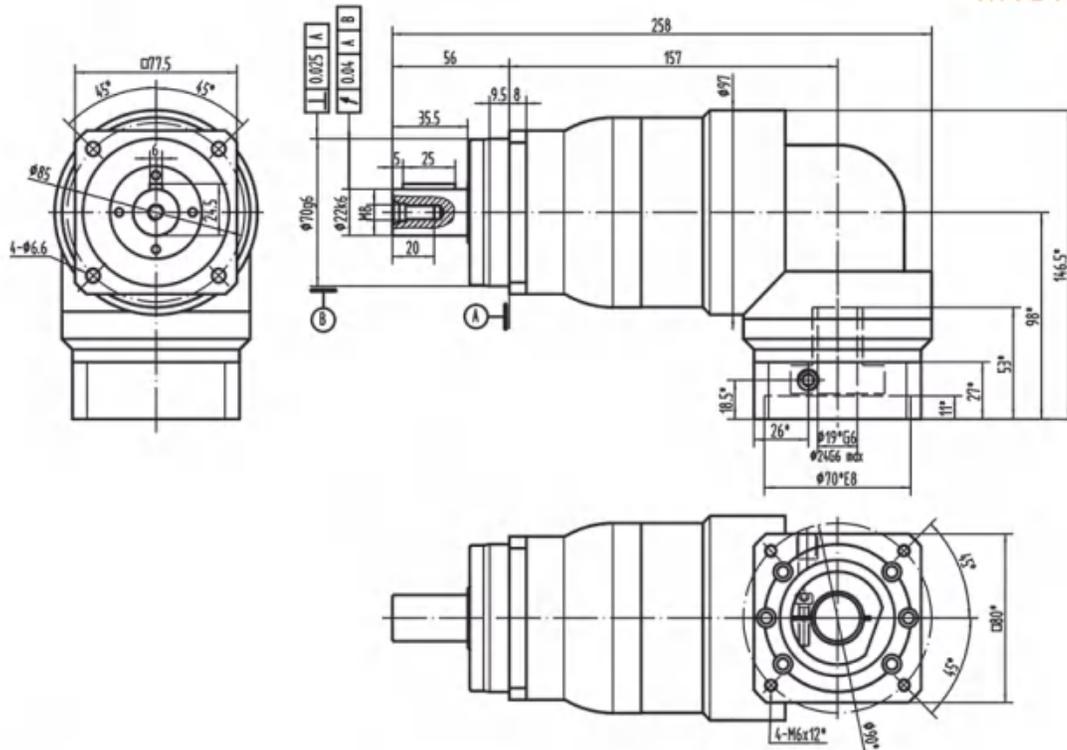
\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

Drawing / Size

MVDR-075-L1



MVDR-075-L2

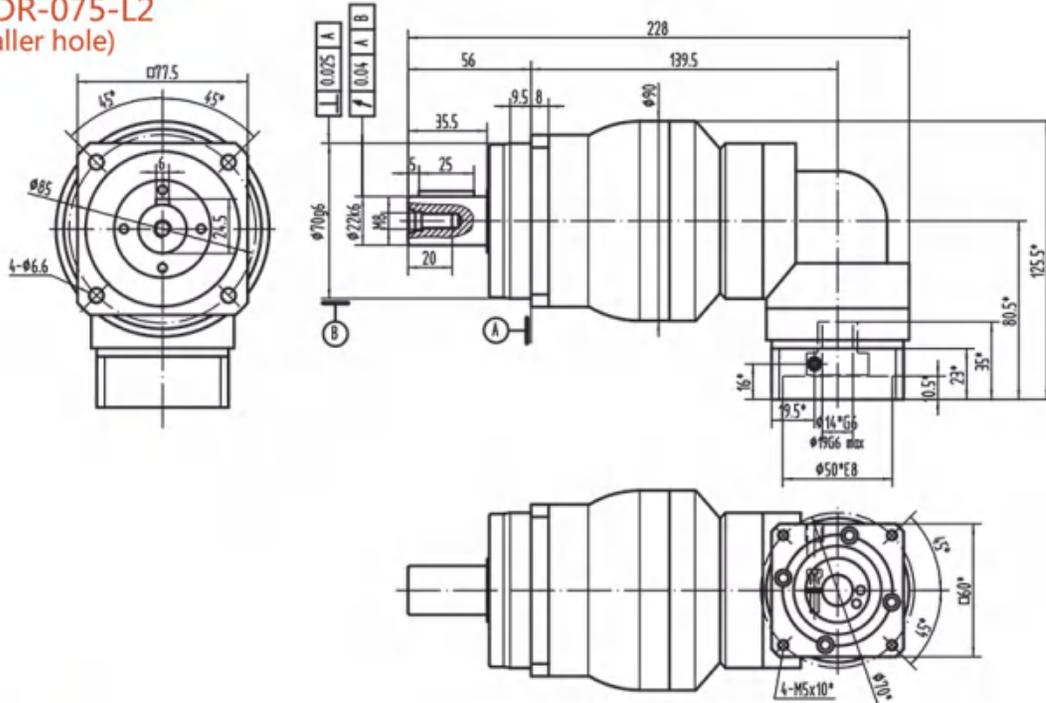


MVDR

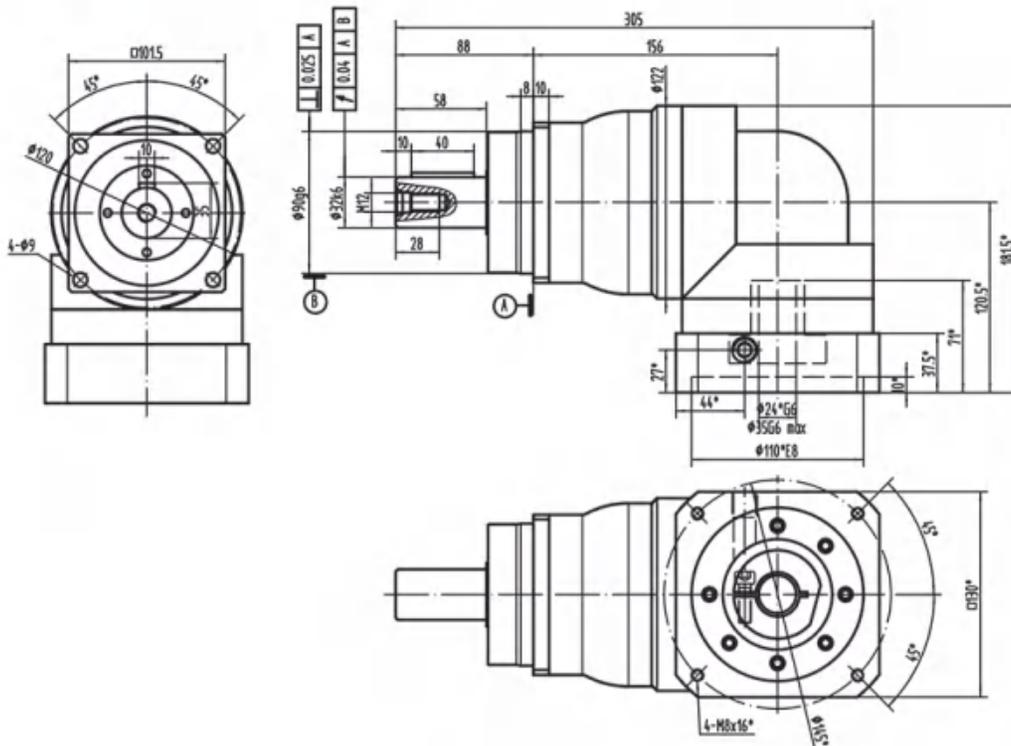
\*Dimensions based on servo-motor, please contact us for custom made order.  
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Drawing / Size

**MVDR-075-L2**  
(Smaller hole)

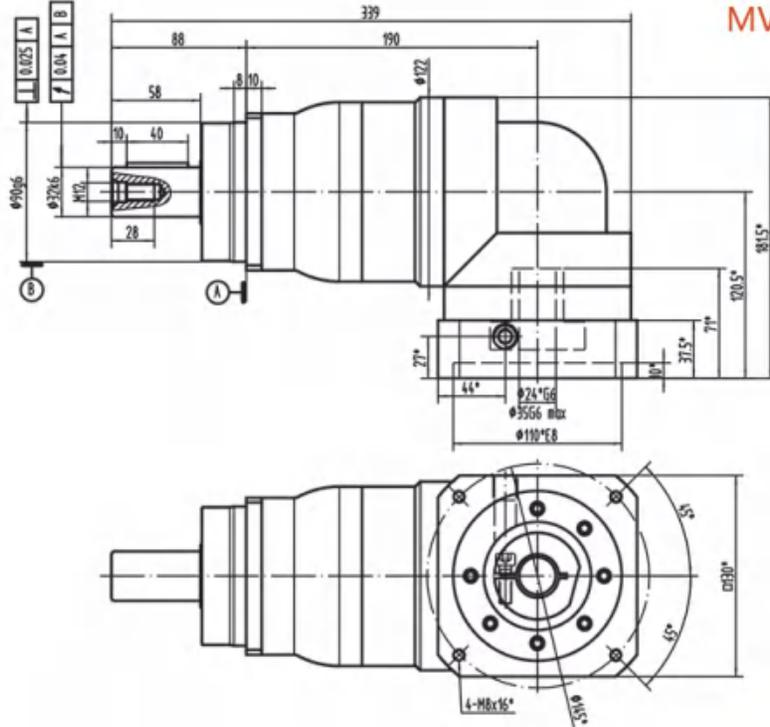
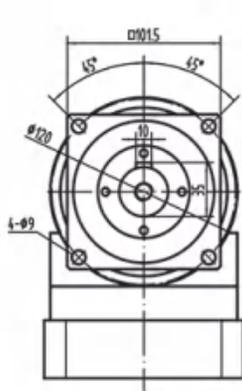


**MVDR-100-L1**

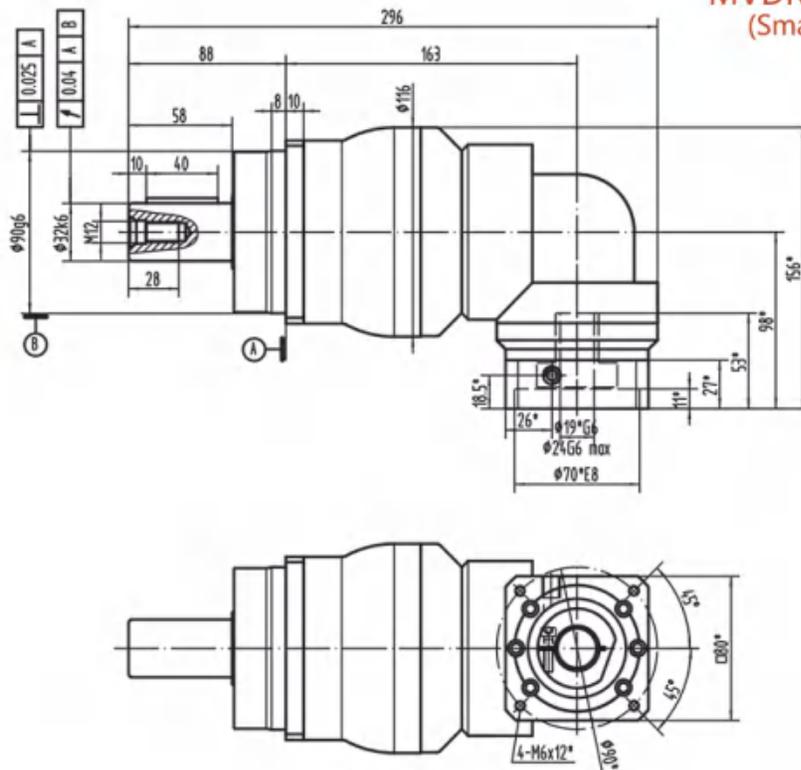
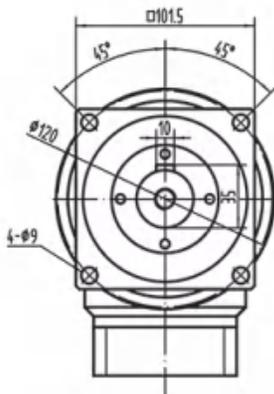


\*Dimensions based on servo-motor, please contact us for custom made order.  
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Drawing / Size



MVDR-100-L2

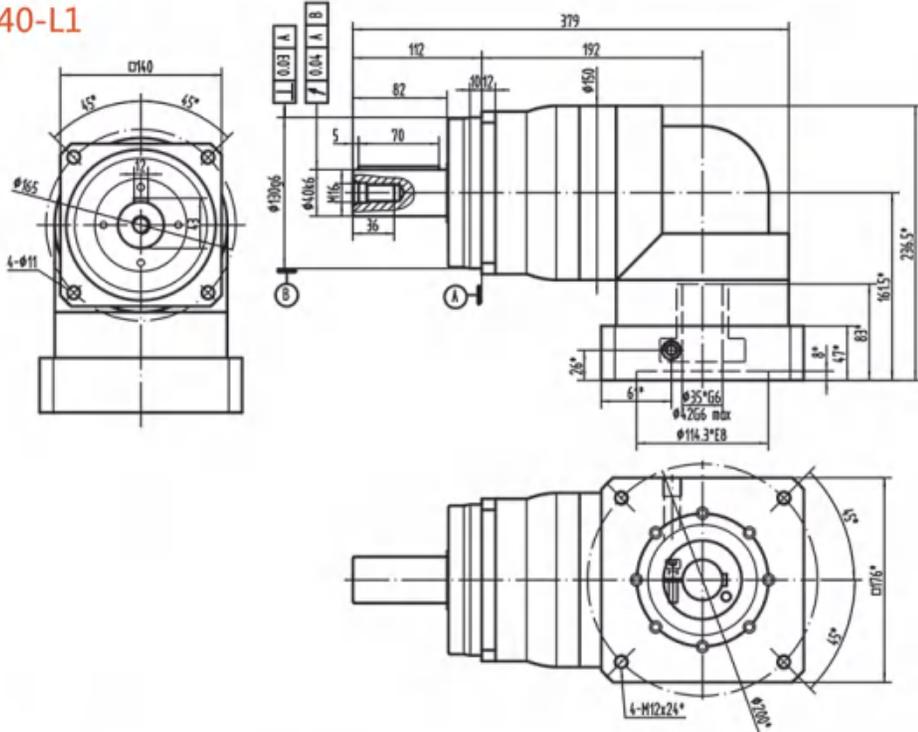


MVDR-100-L2  
(Smaller hole)

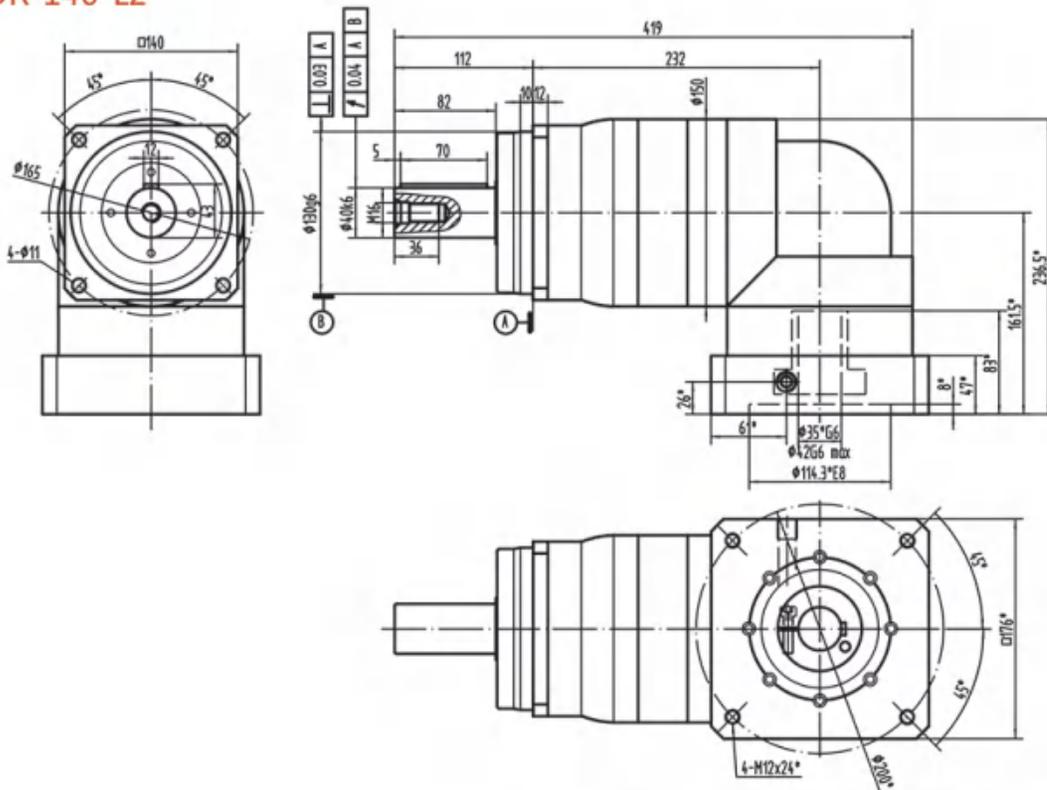
\*Dimensions based on servo-motor, please contact us for custom made order.  
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## Drawing / Size

### MVDR-140-L1

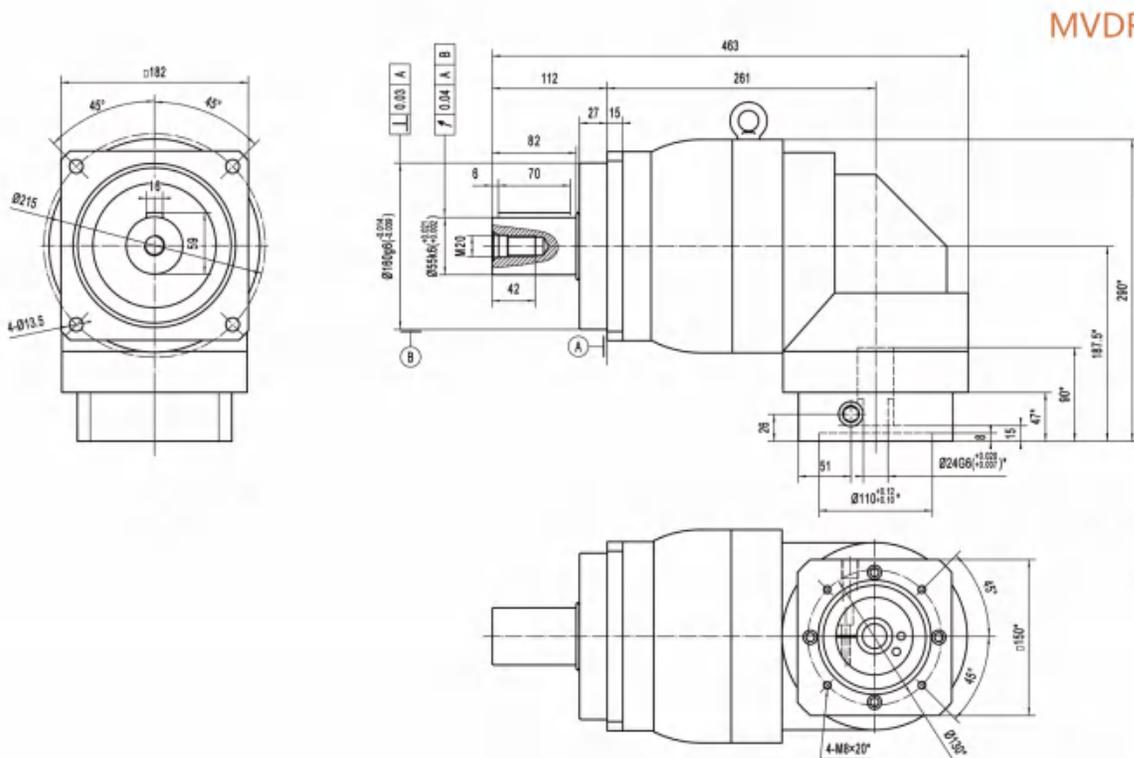
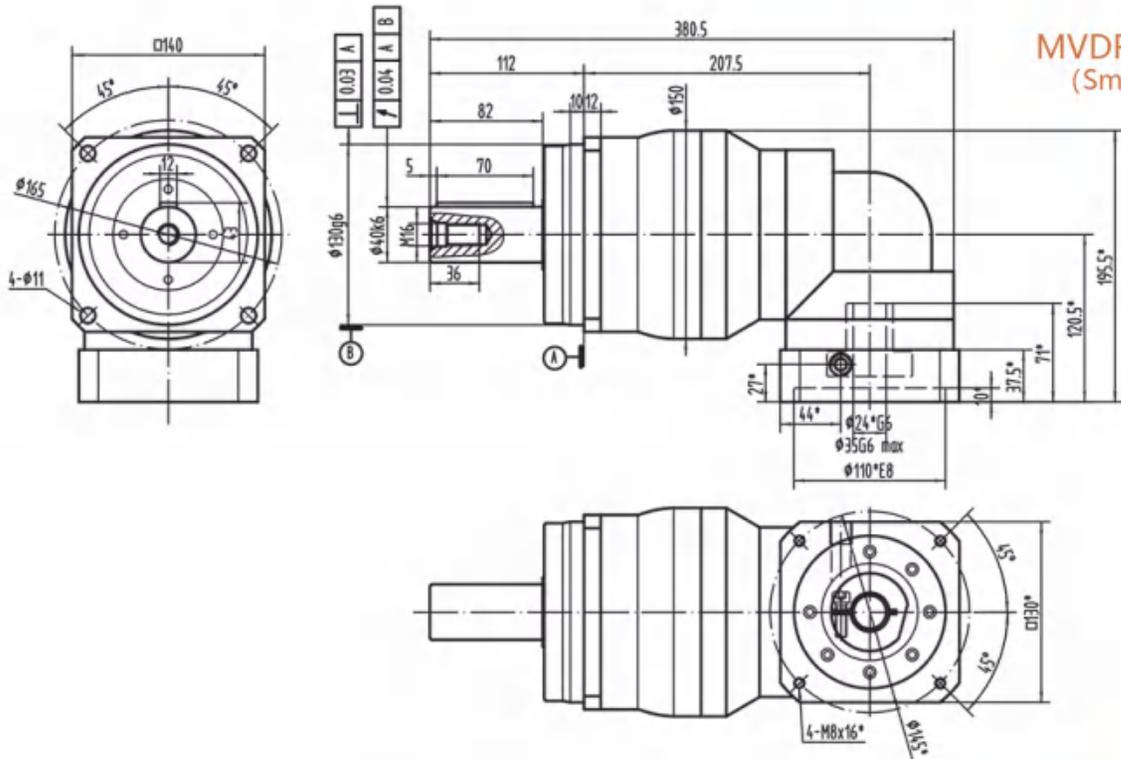


### MVDR-140-L2



\* Dimensions based on servo-motor, please contact us for custom made order.  
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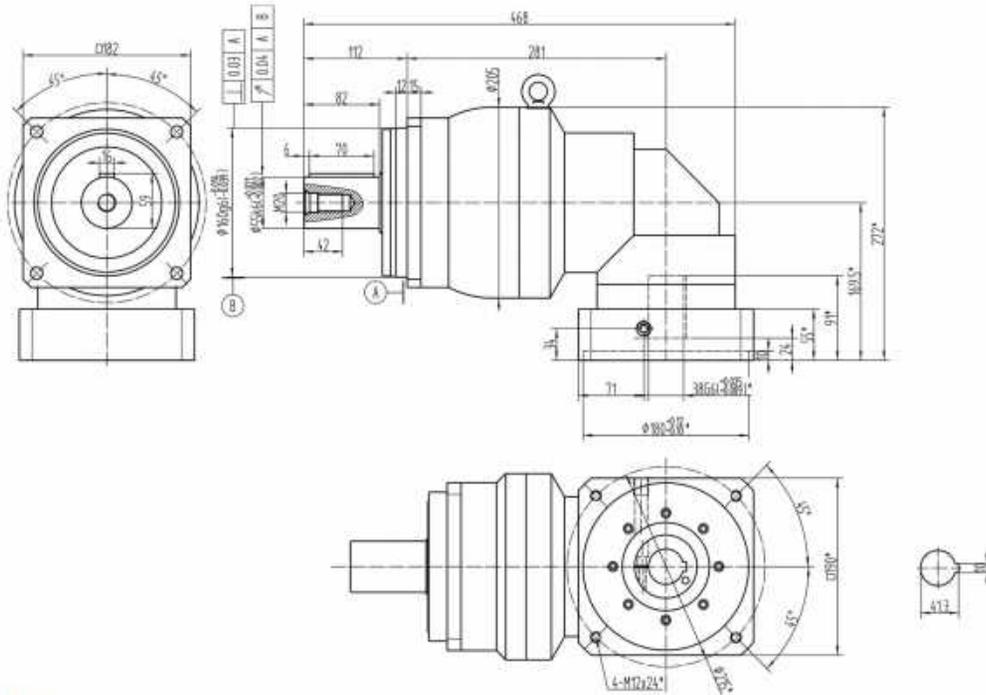
# Drawing / Size



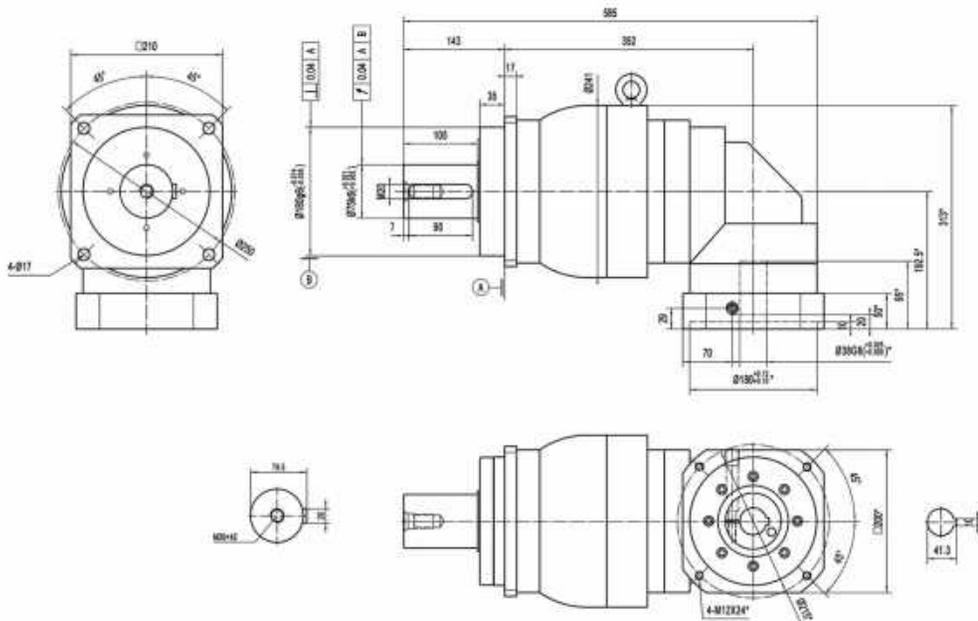
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

## Drawing / Size

### MVDR-180-L2



### MVDR-210-L2



\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

## Performance table

| MVDR-060    |     |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2hot</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>1</sub> | C <sub>21</sub> | F <sub>2PMax</sub> | F <sub>2MMax</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | mm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3   | 22              | 2×T <sub>2N</sub> | 3000            | 6000              | ≤8             | 7               | 3000               | 2700               | 0.16              | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤66 |
|             | 4   | 30              |                   |                 |                   |                |                 |                    |                    | 0.14              |     |                |        |                             |      |             |     |
|             | 5   | 45              |                   |                 |                   |                |                 |                    |                    | 0.13              |     |                |        |                             |      |             |     |
|             | 6   | 45              |                   |                 |                   |                |                 |                    |                    | 0.13              |     |                |        |                             |      |             |     |
|             | 7   | 45              |                   |                 |                   |                |                 |                    |                    | 0.13              |     |                |        |                             |      |             |     |
|             | 8   | 45              |                   |                 |                   |                |                 |                    |                    | 0.13              |     |                |        |                             |      |             |     |
|             | 9   | 30              |                   |                 |                   |                |                 |                    |                    | 0.13              |     |                |        |                             |      |             |     |
|             | 10  | 30              |                   |                 |                   |                |                 |                    |                    | 0.13              |     |                |        |                             |      |             |     |
| II<br>STAGE | 15  | 30              |                   |                 |                   |                |                 |                    |                    | 0.13              |     |                |        |                             |      |             |     |
|             | 20  | 30              |                   |                 |                   |                |                 |                    |                    | 0.13              |     |                |        |                             |      |             |     |
|             | 35  | 45              | 0.13              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 40  | 45              | 0.13              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 50  | 45              | 0.13              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 80  | 45              | 0.13              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 100 | 30              | 0.13              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |

| MVDR-075    |     |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2hot</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>1</sub> | C <sub>21</sub> | F <sub>2PMax</sub> | F <sub>2MMax</sub> | J <sub>1</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | mm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3   | 65              | 2×T <sub>2N</sub> | 3000            | 6000              | ≤8             | 14              | 4200               | 3900               | 0.61              | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤68 |
|             | 4   | 85              |                   |                 |                   |                |                 |                    |                    | 0.48              |     |                |        |                             |      |             |     |
|             | 5   | 90              |                   |                 |                   |                |                 |                    |                    | 0.47              |     |                |        |                             |      |             |     |
|             | 6   | 90              |                   |                 |                   |                |                 |                    |                    | 0.47              |     |                |        |                             |      |             |     |
|             | 7   | 90              |                   |                 |                   |                |                 |                    |                    | 0.45              |     |                |        |                             |      |             |     |
|             | 8   | 90              |                   |                 |                   |                |                 |                    |                    | 0.45              |     |                |        |                             |      |             |     |
|             | 9   | 65              |                   |                 |                   |                |                 |                    |                    | 0.42              |     |                |        |                             |      |             |     |
|             | 10  | 65              |                   |                 |                   |                |                 |                    |                    | 0.40              |     |                |        |                             |      |             |     |
| II<br>STAGE | 15  | 65              |                   |                 |                   |                |                 |                    |                    | 0.45              |     |                |        |                             |      |             |     |
|             | 20  | 85              |                   |                 |                   |                |                 |                    |                    | 0.45              |     |                |        |                             |      |             |     |
|             | 35  | 90              | 0.45              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 40  | 90              | 0.45              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 50  | 90              | 0.45              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 80  | 90              | 0.40              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 100 | 65              | 0.40              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |

## Performance table

| MVDR-100   |             |                 |                   |                 |                   |                |                 |                   |                   |                   |     |                |        |                             |      |             |     |      |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|-------------------|-------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|------|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>i</sub> | C <sub>2i</sub> | F <sub>2Max</sub> | F <sub>2Max</sub> | J <sub>i</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |      |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                 | N                 | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |      |
| I<br>STAGE | 3           | 150             | 2×T <sub>2N</sub> | 3000            | 6000              | ≤8             | 25              | 6800              | 6200              | 3.25              | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤72 |      |
|            | 4           | 200             |                   |                 |                   |                | 25              |                   |                   | 2.74              |     |                |        |                             |      |             |     |      |
|            | 5           | 260             |                   |                 |                   |                | 25              |                   |                   | 2.71              |     |                |        |                             |      |             |     |      |
|            | 6           | 300             |                   |                 |                   |                | 25              |                   |                   | 2.71              |     |                |        |                             |      |             |     |      |
|            | 7           | 300             |                   |                 |                   |                | 25              |                   |                   | 2.62              |     |                |        |                             |      |             |     |      |
|            | 8           | 300             |                   |                 |                   |                | 25              |                   |                   | 2.60              |     |                |        |                             |      |             |     |      |
|            | 9           | 200             |                   |                 |                   |                | 25              |                   |                   | 2.59              |     |                |        |                             |      |             |     |      |
|            | 10          | 200             |                   |                 |                   |                | 25              |                   |                   | 2.57              |     |                |        |                             |      |             |     |      |
|            | II<br>STAGE | 15              |                   |                 |                   |                | 200             |                   |                   | 25                |     |                |        |                             |      |             |     | 0.45 |
|            |             | 20              |                   |                 |                   |                | 300             |                   |                   | 25                |     |                |        |                             |      |             |     | 0.45 |
| 35         |             | 300             | 25                | 0.45            |                   |                |                 |                   |                   |                   |     |                |        |                             |      |             |     |      |
| 40         |             | 300             | 25                | 0.45            |                   |                |                 |                   |                   |                   |     |                |        |                             |      |             |     |      |
| 50         |             | 300             | 25                | 0.40            |                   |                |                 |                   |                   |                   |     |                |        |                             |      |             |     |      |
| 80         |             | 300             | 25                | 0.40            |                   |                |                 |                   |                   |                   |     |                |        |                             |      |             |     |      |
| 100        |             | 200             | 25                | 0.40            |                   |                |                 |                   |                   |                   |     |                |        |                             |      |             |     |      |

| MVDR-140   |             |                 |                   |                 |                   |                |                 |                   |                   |                   |     |                |        |                             |      |             |     |      |
|------------|-------------|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|-------------------|-------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|------|
| Symb.      | i           | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>i</sub> | C <sub>2i</sub> | F <sub>2Max</sub> | F <sub>2Max</sub> | J <sub>i</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |      |
| Unit       |             | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                 | N                 | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |      |
| I<br>STAGE | 3           | 270             | 2×T <sub>2N</sub> | 2000            | 4000              | ≤8             | 50              | 11000             | 9800              | 9.21              | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤74 |      |
|            | 4           | 350             |                   |                 |                   |                | 50              |                   |                   | 7.54              |     |                |        |                             |      |             |     |      |
|            | 5           | 420             |                   |                 |                   |                | 50              |                   |                   | 7.42              |     |                |        |                             |      |             |     |      |
|            | 6           | 520             |                   |                 |                   |                | 50              |                   |                   | 7.42              |     |                |        |                             |      |             |     |      |
|            | 7           | 600             |                   |                 |                   |                | 50              |                   |                   | 7.14              |     |                |        |                             |      |             |     |      |
|            | 8           | 600             |                   |                 |                   |                | 50              |                   |                   | 7.14              |     |                |        |                             |      |             |     |      |
|            | 9           | 400             |                   |                 |                   |                | 50              |                   |                   | 7.08              |     |                |        |                             |      |             |     |      |
|            | 10          | 400             |                   |                 |                   |                | 50              |                   |                   | 7.03              |     |                |        |                             |      |             |     |      |
|            | II<br>STAGE | 15              |                   |                 |                   |                | 400             |                   |                   | 50                |     |                |        |                             |      |             |     | 2.63 |
|            |             | 20              |                   |                 |                   |                | 520             |                   |                   | 50                |     |                |        |                             |      |             |     | 2.63 |
| 35         |             | 600             | 50                | 2.43            |                   |                |                 |                   |                   |                   |     |                |        |                             |      |             |     |      |
| 40         |             | 600             | 50                | 2.43            |                   |                |                 |                   |                   |                   |     |                |        |                             |      |             |     |      |
| 50         |             | 600             | 50                | 2.39            |                   |                |                 |                   |                   |                   |     |                |        |                             |      |             |     |      |
| 80         |             | 600             | 50                | 2.39            |                   |                |                 |                   |                   |                   |     |                |        |                             |      |             |     |      |
| 100        |             | 400             | 50                | 2.39            |                   |                |                 |                   |                   |                   |     |                |        |                             |      |             |     |      |

## Performance table

| MVDR-180    |     |                 |                   |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1H</sub> | n <sub>1Max</sub> | J <sub>t</sub> | C <sub>Zt</sub> | F <sub>2RMax</sub> | F <sub>2MMax</sub> | J <sub>s</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                  | N                  | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 3   | 1000            | 2xT <sub>2N</sub> | 1500            | 3500              | ≤8             | 175             | 18500              | 15500              | 54.20             | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤75 |
|             | 4   | 1500            |                   |                 |                   |                |                 |                    |                    | 39.44             |     |                |        |                             |      |             |     |
|             | 5   | 1700            |                   |                 |                   |                |                 |                    |                    | 33.38             |     |                |        |                             |      |             |     |
|             | 6   | 1700            |                   |                 |                   |                |                 |                    |                    | 33.02             |     |                |        |                             |      |             |     |
|             | 7   | 1700            |                   |                 |                   |                |                 |                    |                    | 27.49             |     |                |        |                             |      |             |     |
|             | 8   | 1700            |                   |                 |                   |                |                 |                    |                    | 27.00             |     |                |        |                             |      |             |     |
|             | 9   | 1100            |                   |                 |                   |                |                 |                    |                    | 26.37             |     |                |        |                             |      |             |     |
| II<br>STAGE | 10  | 1100            |                   |                 |                   |                |                 |                    |                    | 47.00             |     |                |        |                             |      |             |     |
|             | 15  | 1200            |                   |                 |                   |                |                 |                    |                    | 34.5              |     |                |        |                             |      |             |     |
|             | 20  | 1700            |                   |                 |                   |                |                 |                    |                    | 31.5              |     |                |        |                             |      |             |     |
|             | 25  | 1800            | 30.8              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 50  | 1800            | 28.3              |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |
|             | 100 | 1200            | 30.36             |                 |                   |                |                 |                    |                    |                   |     |                |        |                             |      |             |     |

| MVDR-210   |     |                 |                   |                 |                   |                |                 |                     |                     |                   |     |                |        |                             |      |             |     |
|------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|---------------------|---------------------|-------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i   | T <sub>2N</sub> | T <sub>2Not</sub> | n <sub>1H</sub> | n <sub>1Max</sub> | J <sub>t</sub> | C <sub>Zt</sub> | F <sub>2RMMax</sub> | F <sub>2MMMax</sub> | J <sub>s</sub>    | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit       |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | Nm/arcmin       | N                   | N                   | kgcm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE | 15  | 2300            | 2xT <sub>2N</sub> | 1200            | 3000              | ≤8             | 400             | 23000               | 20500               | 34.5              | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤79 |
|            | 20  | 2300            |                   |                 |                   |                |                 |                     |                     | 31.5              |     |                |        |                             |      |             |     |
|            | 25  | 2400            |                   |                 |                   |                |                 |                     |                     | 20.8              |     |                |        |                             |      |             |     |
|            | 50  | 2400            |                   |                 |                   |                |                 |                     |                     | 28.3              |     |                |        |                             |      |             |     |
|            | 80  | 2400            |                   |                 |                   |                |                 |                     |                     | 28.1              |     |                |        |                             |      |             |     |
|            | 100 | 1800            |                   |                 |                   |                |                 |                     |                     | 28                |     |                |        |                             |      |             |     |

**MAFR SERIES**



此款应用高端直角解决方案，保持原有MAF系列的设计与性能。

A high-performance right-angle solution for servo applications that keeps MAF's design and characteristics.



### 造型数据:

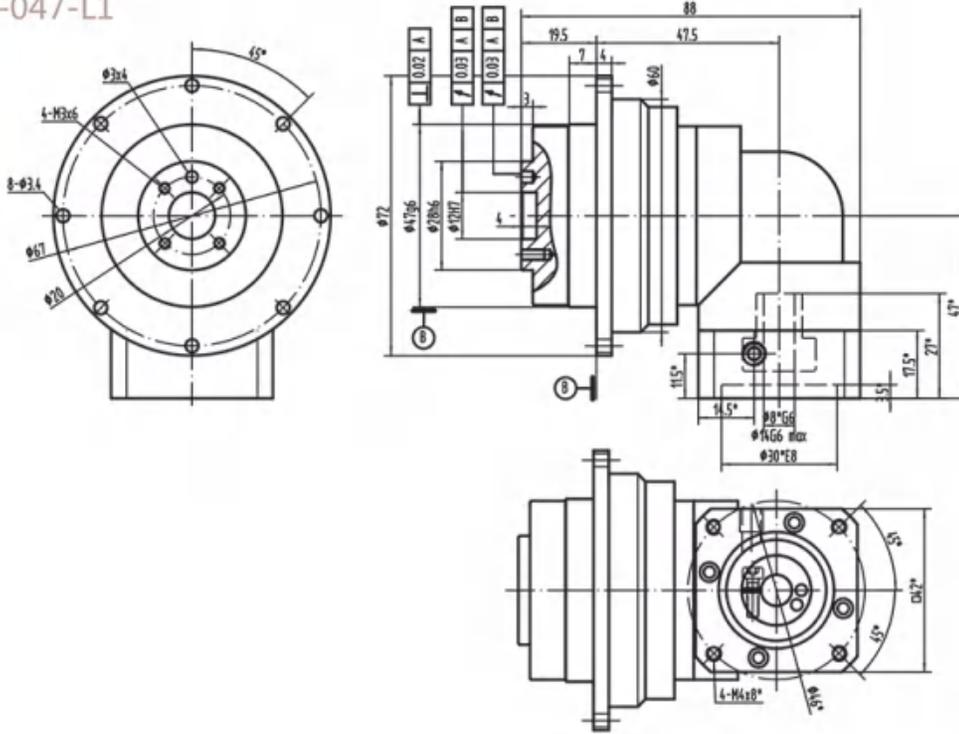
### Selection data:

|               |        |
|---------------|--------|
| 扭矩 ( Nm )     | 14-600 |
| 速比            | 4-100  |
| 背隙 ( arcmin ) | ≤8     |
| 最大工作温度 ( °C ) | 90     |
| 噪音 ( dB )     | 63-71  |

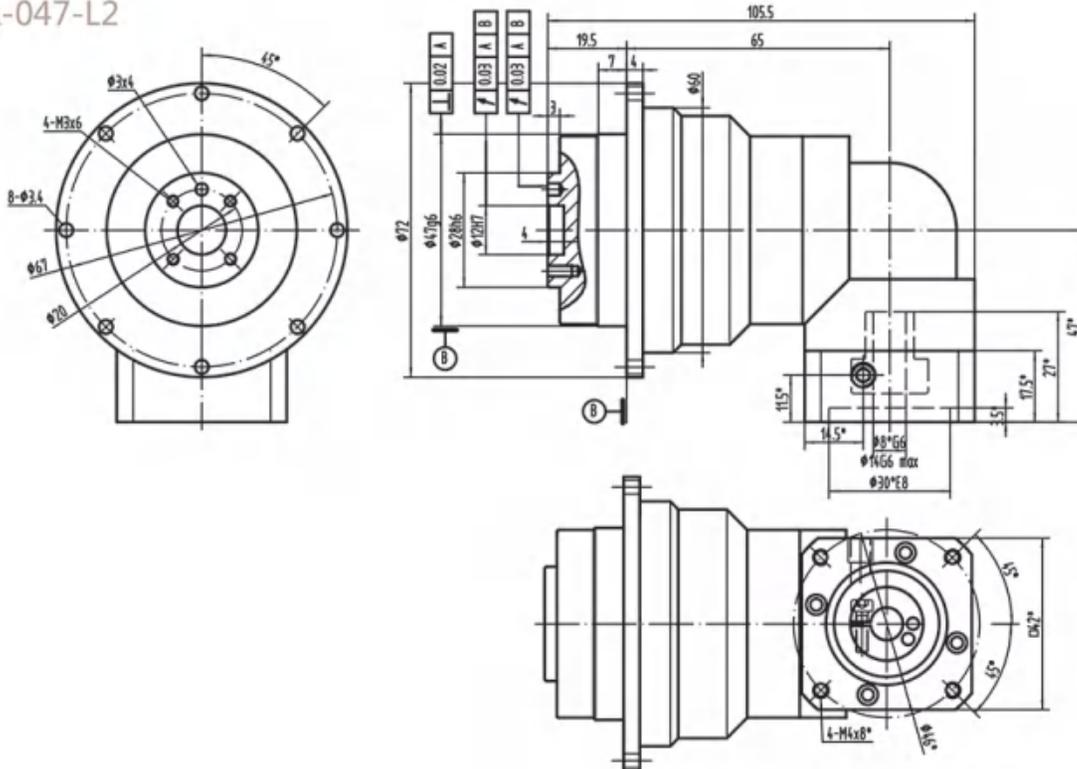
|                                |        |
|--------------------------------|--------|
| Nominal output torque ( Nm )   | 14-600 |
| Reduction ratio                | 3-100  |
| Backlash ( arcmin )            | ≤8     |
| Max.working temperature ( °C ) | 90     |
| Noise ( dB )                   | 63-71  |

# Drawing / Size

MAFR-047-L1



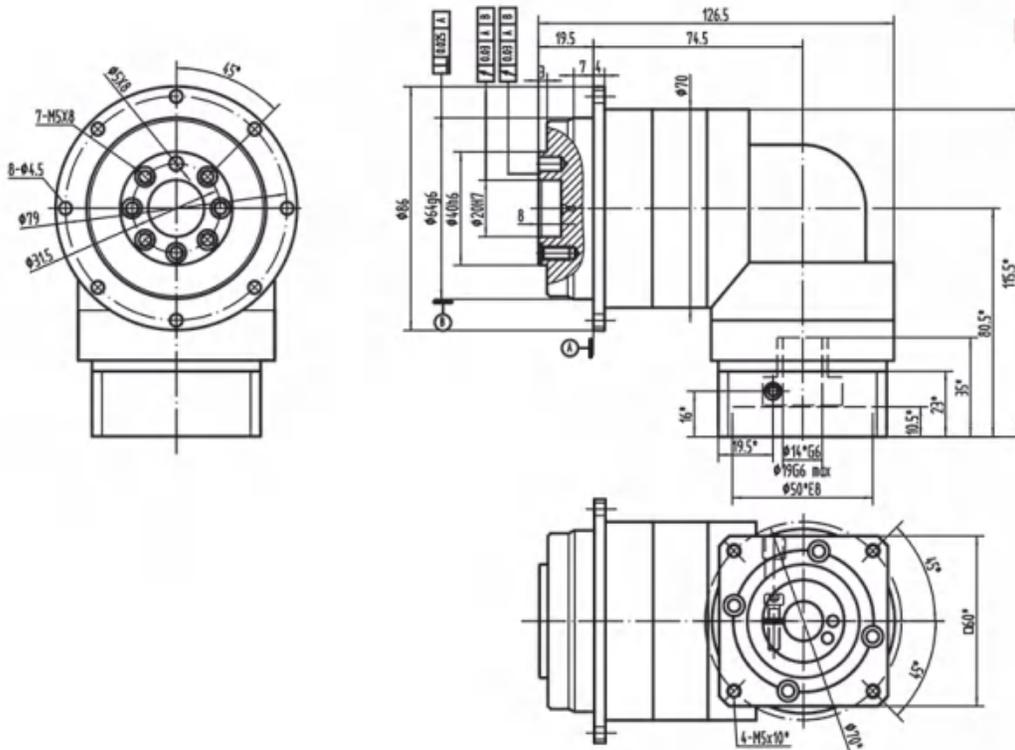
MAFR-047-L2



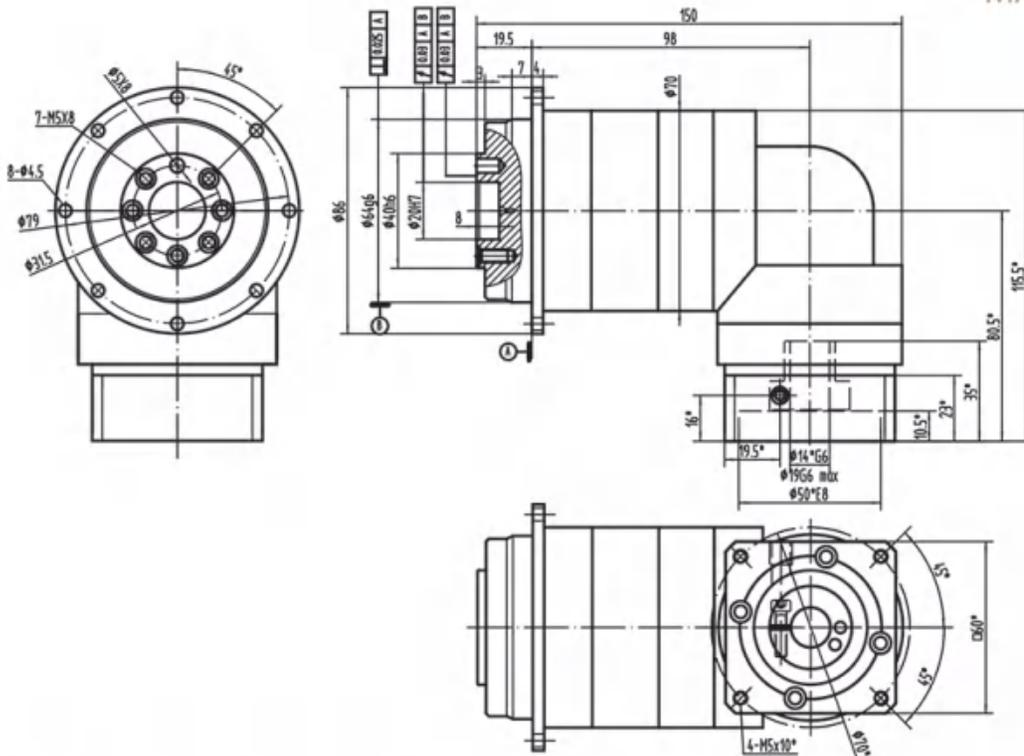
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

# Drawing / Size

MAFR-064-L1



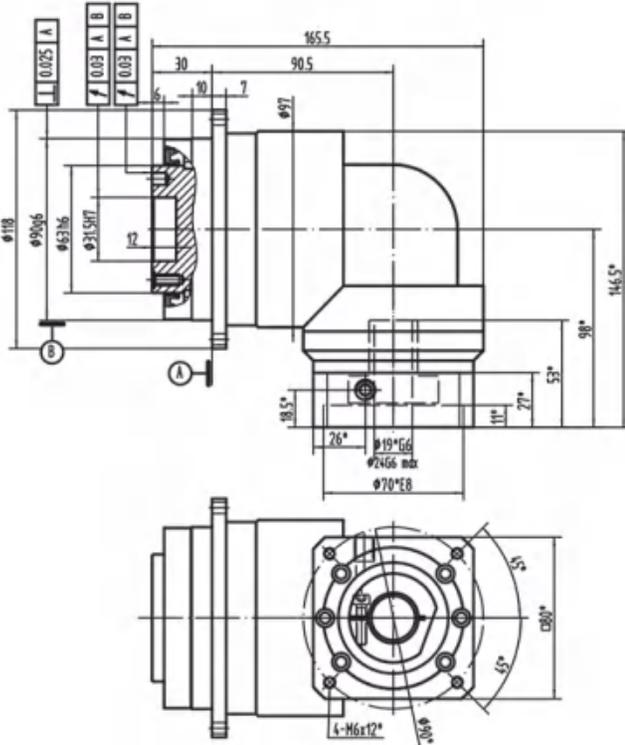
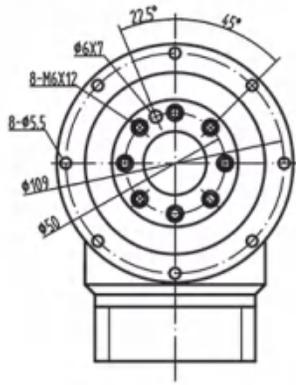
MAFR-064-L2



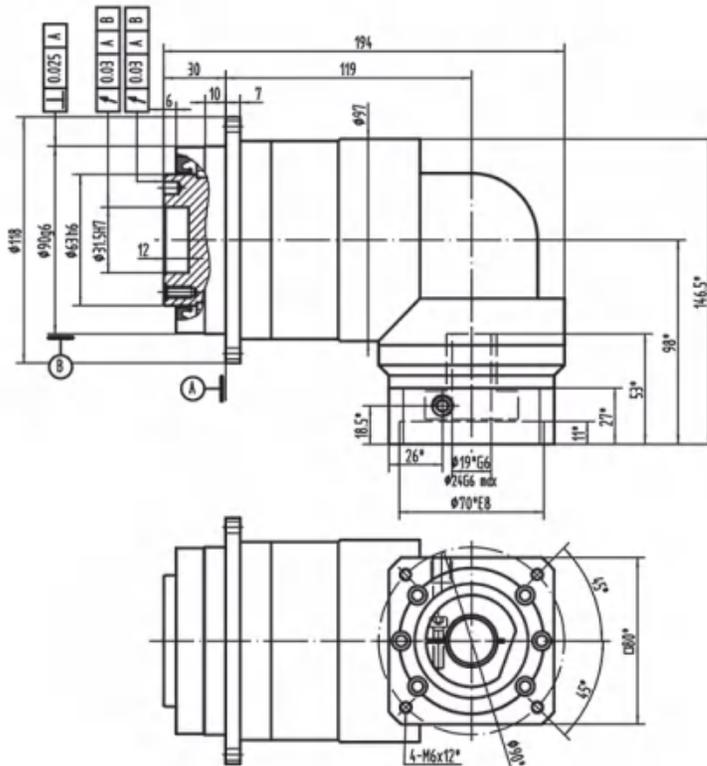
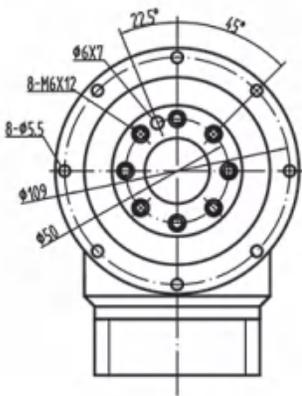
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

Drawing / Size

MAFR-090-L1

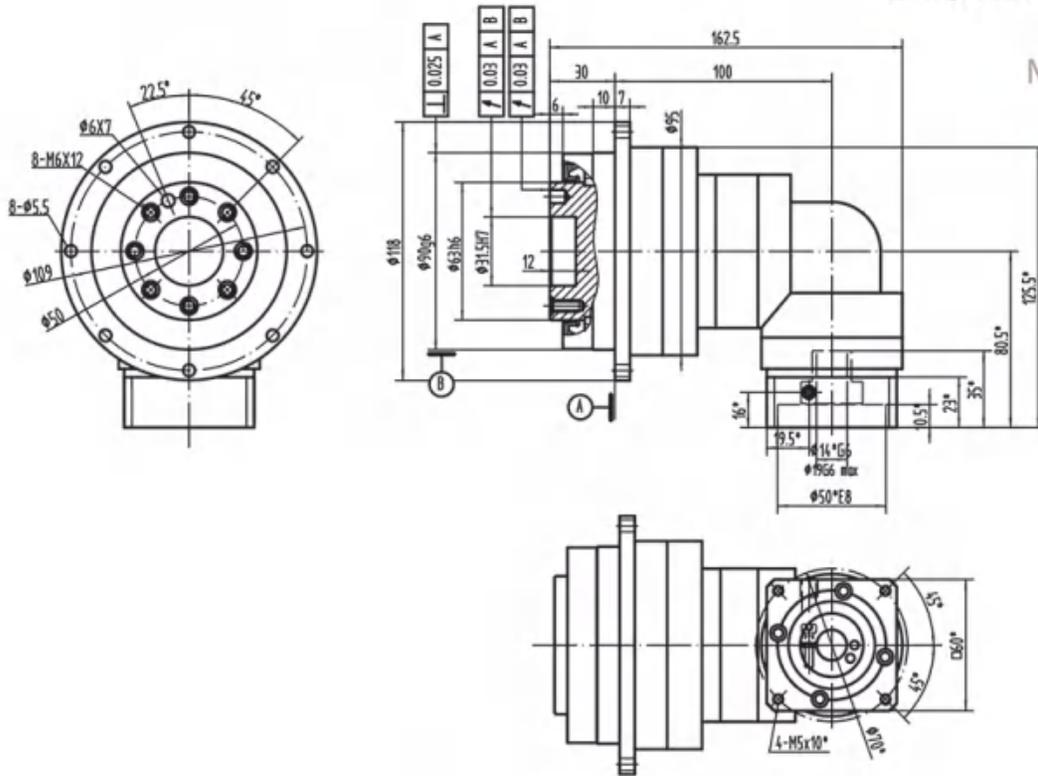


MAFR-090-L2

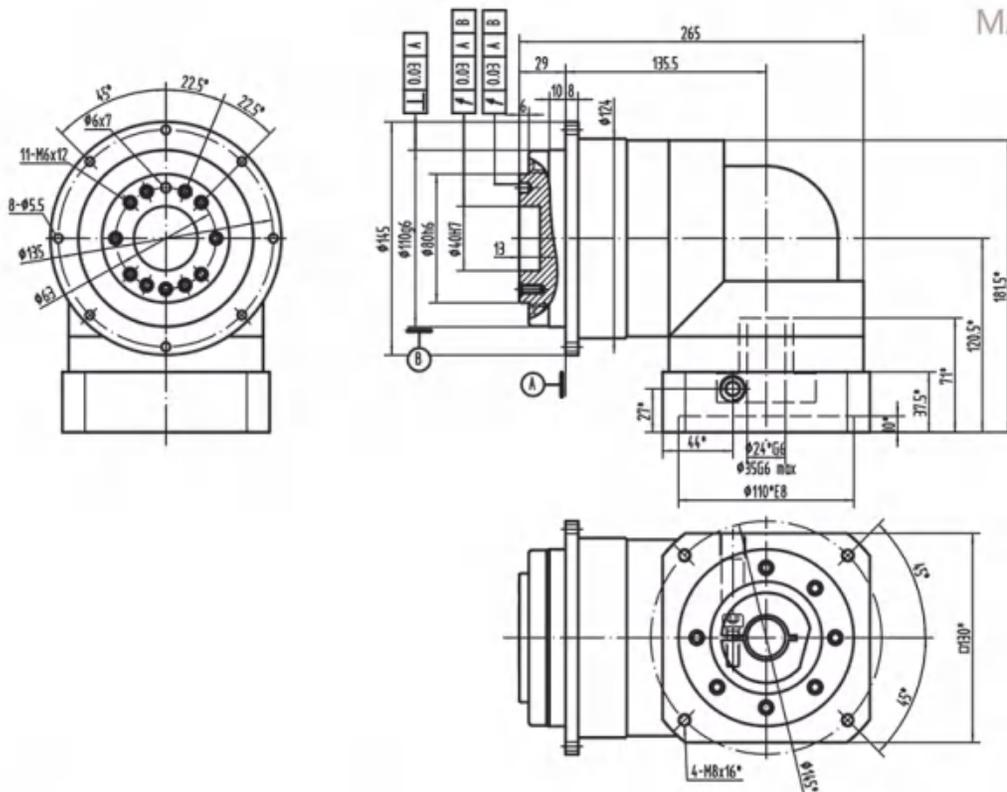


\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

## Drawing / Size



MAFR-090-L2  
(Smaller hole)



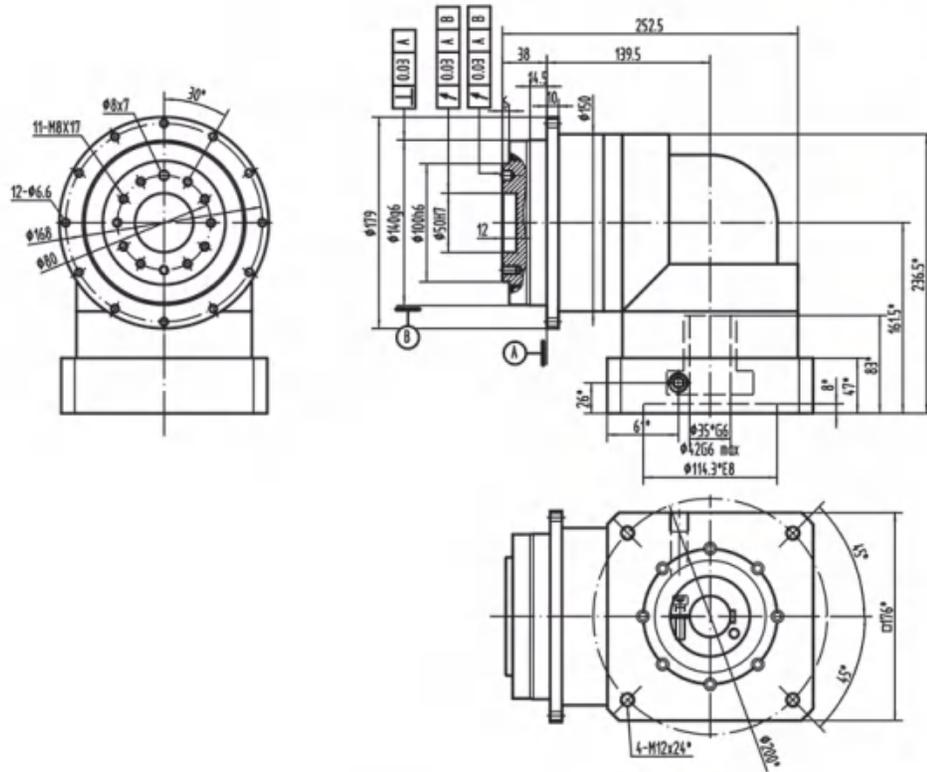
MAFR-110-L1

\*Dimensions based on servo-motor, please contact us for custom made order.  
注有\*尺寸:代表可根据客户需求定制产品,如有需要,请联系我们!

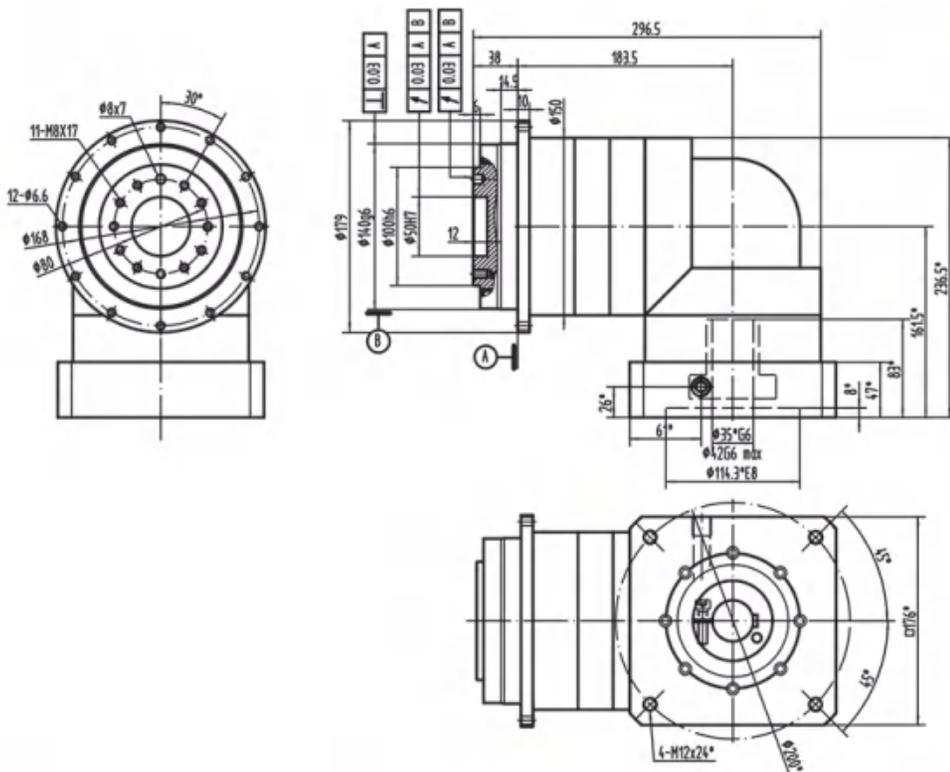


# Drawing / Size

MAFR-140-L1



MAFR-140-L2

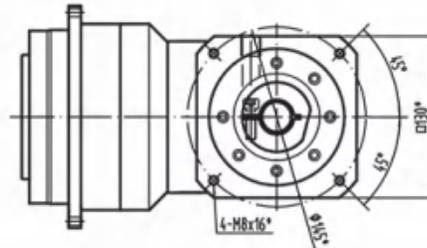
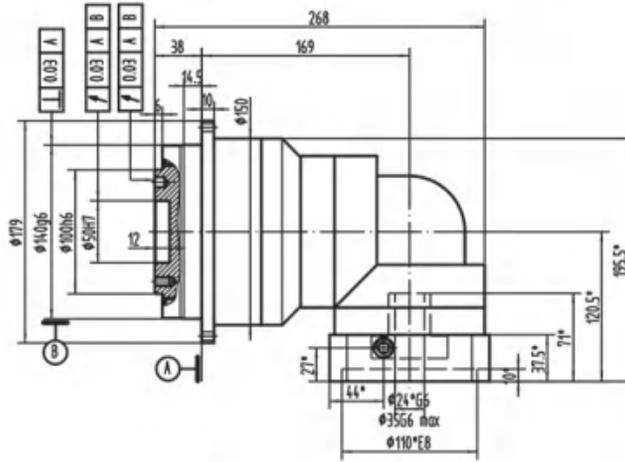
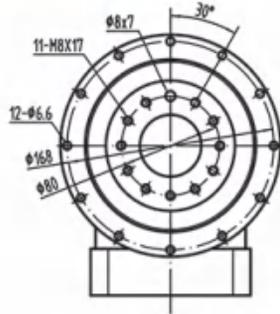


MAFR

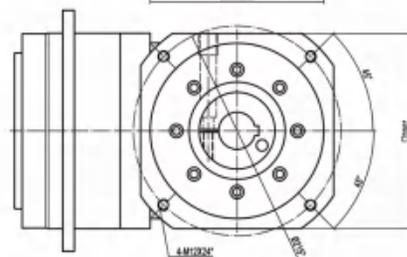
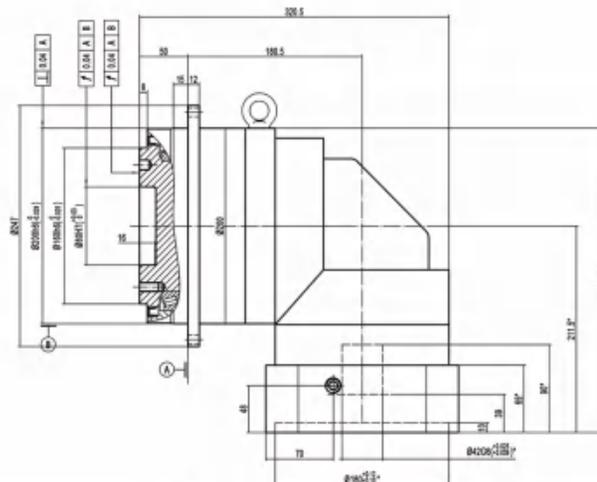
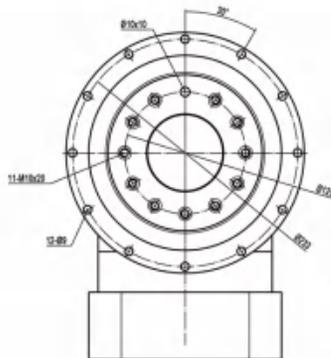
\*Dimensions based on servo-motor, please contact us for custom made order.  
注有\*尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

## Drawing / Size

MAFR-140-L2  
(Smaller hole)



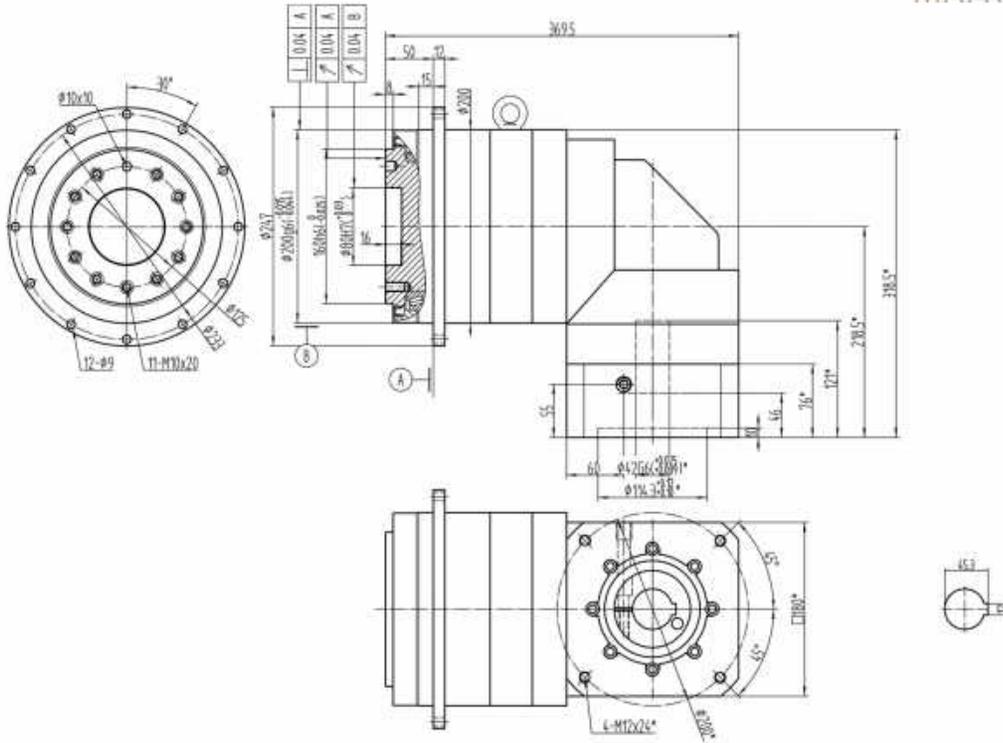
MAFR-200-L1



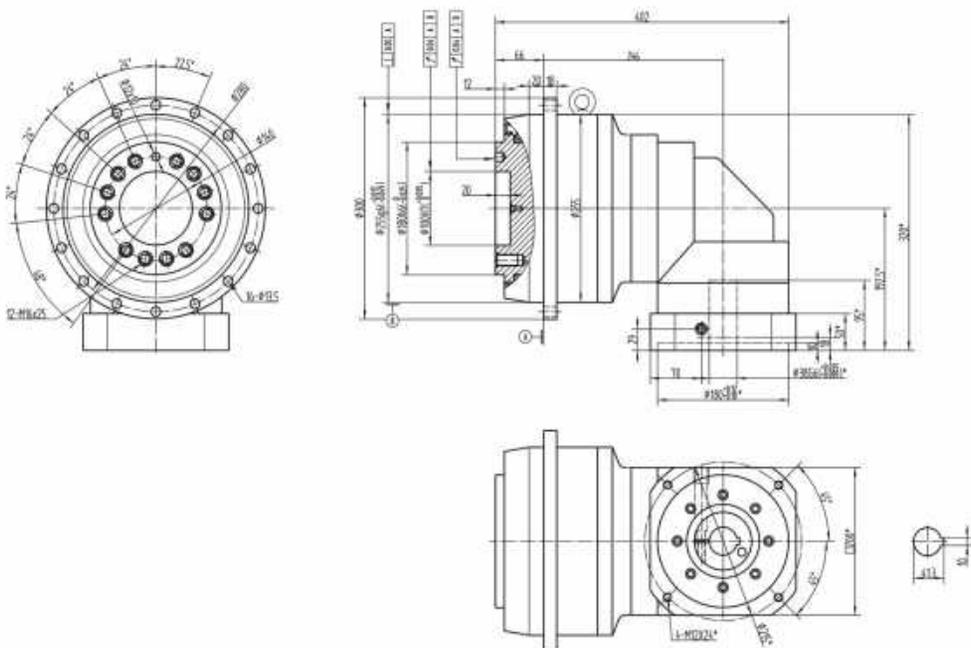
\* Dimensions based on servo-motor, please contact us for custom made order.  
注有 \* 尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

Drawing / Size

MAFR-200-L2



MAFR-255-L2



\*Dimensions based on servo-motor, please contact us for custom made order.  
注有\*尺寸：代表可根据客户需求定制产品，如有需要，请联系我们！

## Performance table

| MAFR-047    |     |                 |                   |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |    |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>2N</sub> | n <sub>2Max</sub> | J <sub>1</sub> | C <sub>st</sub> | F <sub>2RMax</sub> | F <sub>2MMax</sub> | J <sub>2</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          |     |    |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | newtonm         | N                  | N                  | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     | dB |
| I<br>STAGE  | 4   | 14              | 2×T <sub>2N</sub> | 3500            | 7000              | ≤3             | 5               | 800                | 500                | 3                  | ≥95 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤63 |    |
|             | 5   | 20              |                   |                 |                   |                |                 |                    |                    | 3                  |     |                |        |                             |      |             |     |    |
|             | 6   | 20              |                   |                 |                   |                |                 |                    |                    | 3                  |     |                |        |                             |      |             |     |    |
|             | 7   | 20              |                   |                 |                   |                |                 |                    |                    | 2.2                |     |                |        |                             |      |             |     |    |
|             | 8   | 20              |                   |                 |                   |                |                 |                    |                    | 3                  |     |                |        |                             |      |             |     |    |
|             | 9   | 14              |                   |                 |                   |                |                 |                    |                    | 3                  |     |                |        |                             |      |             |     |    |
|             | 10  | 14              |                   |                 |                   |                |                 |                    |                    | 2.2                |     |                |        |                             |      |             |     |    |
| II<br>STAGE | 20  | 14              | 2×T <sub>2N</sub> | 3500            | 7000              | ≤5             | 5               | 800                | 500                | 3                  | ≥90 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤63 |    |
|             | 25  | 20              |                   |                 |                   |                |                 |                    |                    | 3                  |     |                |        |                             |      |             |     |    |
|             | 50  | 20              |                   |                 |                   |                |                 |                    |                    | 3                  |     |                |        |                             |      |             |     |    |
|             | 80  | 20              |                   |                 |                   |                |                 |                    |                    | 3                  |     |                |        |                             |      |             |     |    |
|             | 100 | 14              |                   |                 |                   |                |                 |                    |                    | 2.2                |     |                |        |                             |      |             |     |    |

| MAFR-064    |     |                 |                   |                 |                   |                |                 |                    |                    |                    |     |                |        |                             |      |             |     |    |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|--------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Max</sub> | n <sub>2N</sub> | n <sub>2Max</sub> | J <sub>1</sub> | C <sub>st</sub> | F <sub>2RMax</sub> | F <sub>2MMax</sub> | J <sub>2</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          |     |    |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | newtonm         | N                  | N                  | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     | dB |
| I<br>STAGE  | 4   | 30              | 2×T <sub>2N</sub> | 3300            | 6000              | ≤8             | 13              | 1300               | 650                | 0.13               | ≥90 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤62 |    |
|             | 5   | 40              |                   |                 |                   |                |                 |                    |                    | 0.13               |     |                |        |                             |      |             |     |    |
|             | 6   | 45              |                   |                 |                   |                |                 |                    |                    | 0.13               |     |                |        |                             |      |             |     |    |
|             | 7   | 45              |                   |                 |                   |                |                 |                    |                    | 0.13               |     |                |        |                             |      |             |     |    |
|             | 8   | 45              |                   |                 |                   |                |                 |                    |                    | 0.03               |     |                |        |                             |      |             |     |    |
|             | 9   | 30              |                   |                 |                   |                |                 |                    |                    | 0.03               |     |                |        |                             |      |             |     |    |
|             | 10  | 30              |                   |                 |                   |                |                 |                    |                    | 0.03               |     |                |        |                             |      |             |     |    |
| II<br>STAGE | 20  | 30              | 2×T <sub>2N</sub> | 3300            | 6000              | ≤8             | 13              | 1300               | 650                | 0.03               | ≥90 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤62 |    |
|             | 25  | 45              |                   |                 |                   |                |                 |                    |                    | 0.03               |     |                |        |                             |      |             |     |    |
|             | 50  | 45              |                   |                 |                   |                |                 |                    |                    | 0.03               |     |                |        |                             |      |             |     |    |
|             | 80  | 45              |                   |                 |                   |                |                 |                    |                    | 0.03               |     |                |        |                             |      |             |     |    |
|             | 100 | 30              |                   |                 |                   |                |                 |                    |                    | 0.03               |     |                |        |                             |      |             |     |    |

## Performance table

| MAFR-D90    |     |                 |                   |                 |                   |                |                |                    |                    |                    |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|----------------|--------------------|--------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Hot</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>t</sub> | C <sub>t</sub> | F <sub>DRMax</sub> | F <sub>DRMin</sub> | J <sub>s</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | mm/mm          | N                  | N                  | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 4   | 85              | 2×T <sub>2N</sub> | 2600            | 6000              | ≤8             | 31             | 3000               | 1580               | 0.51               | ≥90 | >20000         | -15-45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤63 |
|             | 5   | 90              |                   |                 |                   |                |                |                    |                    | 0.47               |     |                |        |                             |      |             |     |
|             | 6   | 90              |                   |                 |                   |                |                |                    |                    | 0.47               |     |                |        |                             |      |             |     |
|             | 7   | 90              |                   |                 |                   |                |                |                    |                    | 0.45               |     |                |        |                             |      |             |     |
|             | 8   | 90              |                   |                 |                   |                |                |                    |                    | 0.45               |     |                |        |                             |      |             |     |
|             | 9   | 65              |                   |                 |                   |                |                |                    |                    | 0.44               |     |                |        |                             |      |             |     |
|             | 10  | 65              |                   |                 |                   |                |                |                    |                    | 0.44               |     |                |        |                             |      |             |     |
| II<br>STAGE | 20  | 85              | 0.13              |                 |                   |                |                |                    |                    |                    |     |                |        |                             |      |             |     |
|             | 25  | 85              | 0.13              |                 |                   |                |                |                    |                    |                    |     |                |        |                             |      |             |     |
|             | 50  | 85              | 0.13              |                 |                   |                |                |                    |                    |                    |     |                |        |                             |      |             |     |
|             | 80  | 90              | 0.44              |                 |                   |                |                |                    |                    |                    |     |                |        |                             |      |             |     |
|             | 100 | 65              | 0.13              |                 |                   |                |                |                    |                    |                    |     |                |        |                             |      |             |     |

| MAFR-110    |     |                 |                   |                 |                   |                |                |                    |                    |                    |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|----------------|--------------------|--------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Hot</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>t</sub> | C <sub>t</sub> | F <sub>DRMax</sub> | F <sub>DRMin</sub> | J <sub>s</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          | dB  |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | mm/mm          | N                  | N                  | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             |     |
| I<br>STAGE  | 4   | 200             | 2×T <sub>2N</sub> | 2300            | 6000              | ≤8             | 82             | 7500               | 3900               | 2.87               | ≥90 | >20000         | -15-45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤68 |
|             | 5   | 260             |                   |                 |                   |                |                |                    |                    | 2.71               |     |                |        |                             |      |             |     |
|             | 6   | 330             |                   |                 |                   |                |                |                    |                    | 2.71               |     |                |        |                             |      |             |     |
|             | 7   | 300             |                   |                 |                   |                |                |                    |                    | 2.62               |     |                |        |                             |      |             |     |
|             | 8   | 330             |                   |                 |                   |                |                |                    |                    | 2.61               |     |                |        |                             |      |             |     |
|             | 9   | 200             |                   |                 |                   |                |                |                    |                    | 2.58               |     |                |        |                             |      |             |     |
|             | 10  | 200             |                   |                 |                   |                |                |                    |                    | 2.57               |     |                |        |                             |      |             |     |
| II<br>STAGE | 20  | 200             | 0.47              |                 |                   |                |                |                    |                    |                    |     |                |        |                             |      |             |     |
|             | 25  | 300             | 0.47              |                 |                   |                |                |                    |                    |                    |     |                |        |                             |      |             |     |
|             | 50  | 300             | 0.44              |                 |                   |                |                |                    |                    |                    |     |                |        |                             |      |             |     |
|             | 80  | 330             | 0.44              |                 |                   |                |                |                    |                    |                    |     |                |        |                             |      |             |     |
|             | 100 | 200             | 0.44              |                 |                   |                |                |                    |                    |                    |     |                |        |                             |      |             |     |

## Performance table

| MAFR-140    |     |                 |                   |                 |                   |                |                 |                    |                   |                    |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|-------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Mot</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>t</sub> | C <sub>27</sub> | F <sub>27Max</sub> | F <sub>2Max</sub> | J <sub>t</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          |     |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | rev/mm          | N                  | N                 | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             | dB  |
| I<br>STAGE  | 4   | 350             | 2×T <sub>2N</sub> | 2000            | 5000              | ≤8             | 151             | 12000              | 8000              | 7.54               | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤71 |
|             | 5   | 500             |                   |                 |                   |                |                 |                    |                   | 7.42               |     |                |        |                             |      |             |     |
|             | 6   | 520             |                   |                 |                   |                |                 |                    |                   | 7.42               |     |                |        |                             |      |             |     |
|             | 7   | 600             |                   |                 |                   |                |                 |                    |                   | 7.14               |     |                |        |                             |      |             |     |
|             | 8   | 600             |                   |                 |                   |                |                 |                    |                   | 7.13               |     |                |        |                             |      |             |     |
|             | 9   | 420             |                   |                 |                   |                |                 |                    |                   | 7.08               |     |                |        |                             |      |             |     |
|             | 10  | 400             |                   |                 |                   |                |                 |                    |                   | 7.03               |     |                |        |                             |      |             |     |
| II<br>STAGE | 20  | 400             | 2.71              | ≥90             |                   |                |                 |                    |                   |                    |     |                |        |                             |      |             |     |
|             | 25  | 500             | 2.71              |                 |                   |                |                 |                    |                   |                    |     |                |        |                             |      |             |     |
|             | 50  | 500             | 2.57              |                 |                   |                |                 |                    |                   |                    |     |                |        |                             |      |             |     |
|             | 80  | 600             | 2.57              |                 |                   |                |                 |                    |                   |                    |     |                |        |                             |      |             |     |
|             | 100 | 400             | 2.57              |                 |                   |                |                 |                    |                   |                    |     |                |        |                             |      |             |     |

| MAFR-200    |     |                 |                   |                 |                   |                |                 |                    |                   |                    |     |                |        |                             |      |             |     |
|-------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|-----------------|--------------------|-------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.       | i   | T <sub>2N</sub> | T <sub>2Mot</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | J <sub>t</sub> | C <sub>27</sub> | F <sub>27Max</sub> | F <sub>2Max</sub> | J <sub>t</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          |     |
| Unit        |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | rev/mm          | N                  | N                 | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             | dB  |
| I<br>STAGE  | 4   | 900             | 2×T <sub>2N</sub> | 2000            | 4000              | ≤8             | 450             | 18520              | 15400             | 23.4               | ≥90 | >20000         | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤78 |
|             | 5   | 900             |                   |                 |                   |                |                 |                    |                   | 23.4               |     |                |        |                             |      |             |     |
|             | 6   | 900             |                   |                 |                   |                |                 |                    |                   | 23.4               |     |                |        |                             |      |             |     |
|             | 7   | 900             |                   |                 |                   |                |                 |                    |                   | 23.4               |     |                |        |                             |      |             |     |
|             | 8   | 900             |                   |                 |                   |                |                 |                    |                   | 21.8               |     |                |        |                             |      |             |     |
|             | 9   | 550             |                   |                 |                   |                |                 |                    |                   | 21.8               |     |                |        |                             |      |             |     |
|             | 10  | 550             |                   |                 |                   |                |                 |                    |                   | 21.8               |     |                |        |                             |      |             |     |
| II<br>STAGE | 20  | 1250            | 21.8              | ≥90             |                   |                |                 |                    |                   |                    |     |                |        |                             |      |             |     |
|             | 25  | 1300            | 21.8              |                 |                   |                |                 |                    |                   |                    |     |                |        |                             |      |             |     |
|             | 50  | 1300            | 21.8              |                 |                   |                |                 |                    |                   |                    |     |                |        |                             |      |             |     |
|             | 80  | 1300            | 21.8              |                 |                   |                |                 |                    |                   |                    |     |                |        |                             |      |             |     |
|             | 100 | 880             | 21.8              |                 |                   |                |                 |                    |                   |                    |     |                |        |                             |      |             |     |

## Performance table

| MAFR-255   |     |                 |                   |                 |                   |                |                |                     |                      |                    |     |                |        |                             |      |             |     |
|------------|-----|-----------------|-------------------|-----------------|-------------------|----------------|----------------|---------------------|----------------------|--------------------|-----|----------------|--------|-----------------------------|------|-------------|-----|
| Symb.      | i   | T <sub>2N</sub> | T <sub>2N05</sub> | n <sub>1N</sub> | n <sub>1Max</sub> | j <sub>i</sub> | C <sub>r</sub> | F <sub>200Max</sub> | F <sub>2000Max</sub> | J <sub>i</sub>     | η   | L <sub>h</sub> | T      | Lub                         | PC   | MP          |     |
| Unit       |     | N <sub>m</sub>  | N <sub>m</sub>    | rpm             | rpm               | arcmin         | rev/mm         | N                   | N                    | kg/cm <sup>2</sup> | %   | h              | °C     |                             |      |             | dB  |
| I<br>STAGE | 20  | 2300            | 2×T <sub>2N</sub> | 2000            | 3000              | ≤8             | 1023           | 27000               | 23900                | 64                 | ≥90 | > 20000        | -15~45 | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤81 |
|            | 25  | 2400            |                   |                 |                   |                |                |                     |                      | 65                 |     |                |        |                             |      |             |     |
|            | 50  | 2400            |                   |                 |                   |                |                |                     |                      | 66                 |     |                |        |                             |      |             |     |
|            | 80  | 2400            |                   |                 |                   |                |                |                     |                      | 67                 |     |                |        |                             |      |             |     |
|            | 100 | 1800            |                   |                 |                   |                |                |                     |                      | 68                 |     |                |        |                             |      |             |     |

