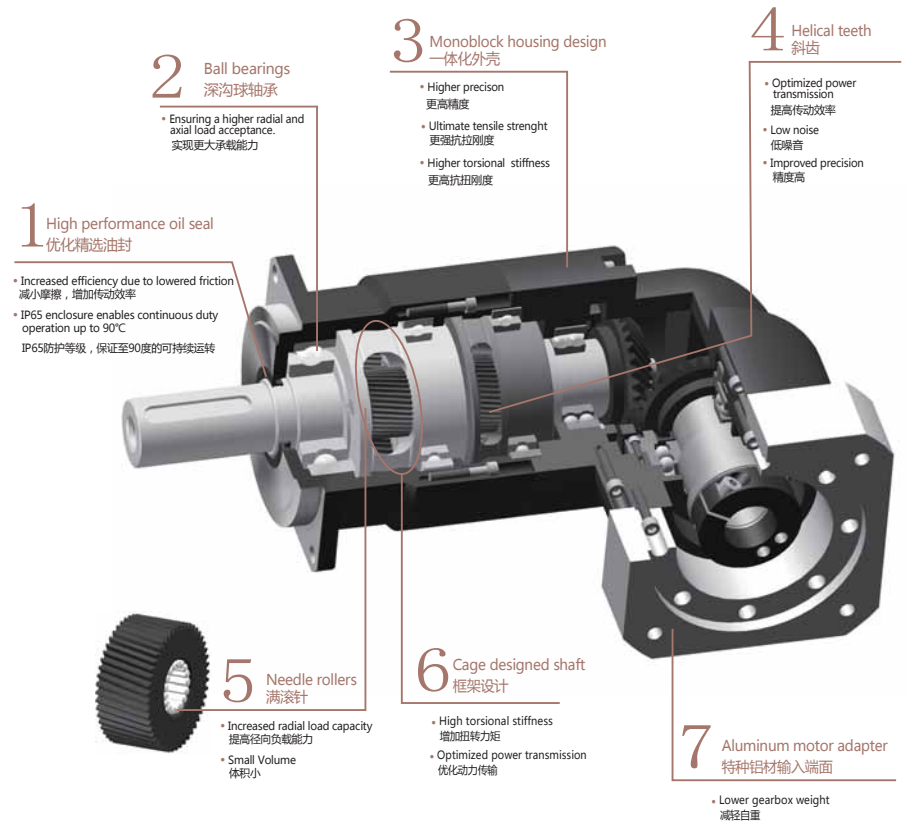




此款应用高端直角解决方案，保持原有MVB系列的设计与性能。

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



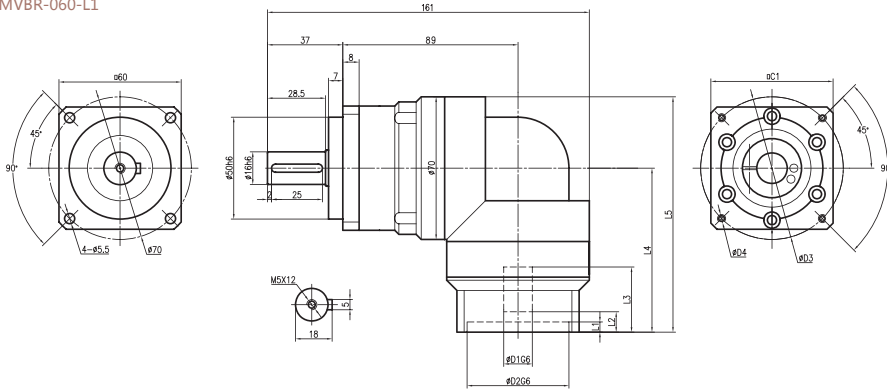
**造型数据:**

**Selection data:**

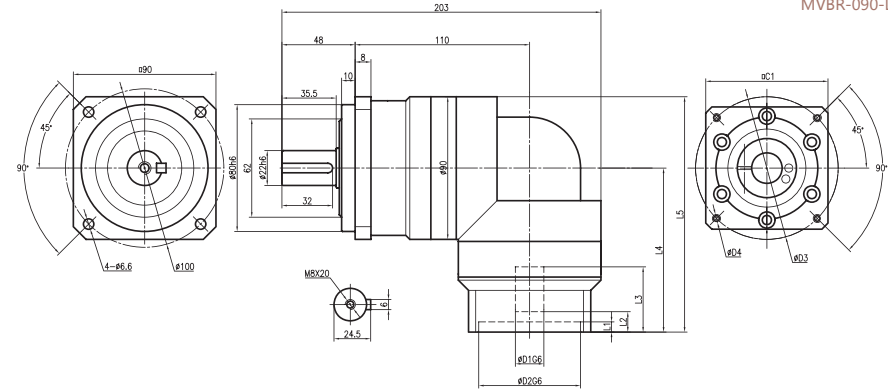
|               |        |
|---------------|--------|
| 扭矩 ( Nm )     | 22-600 |
| 速比            | 3-100  |
| 背隙 ( arcmin ) | ≤8     |
| 最大工作温度 ( °C ) | 90     |
| 噪音 ( dB )     | 66-74  |

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

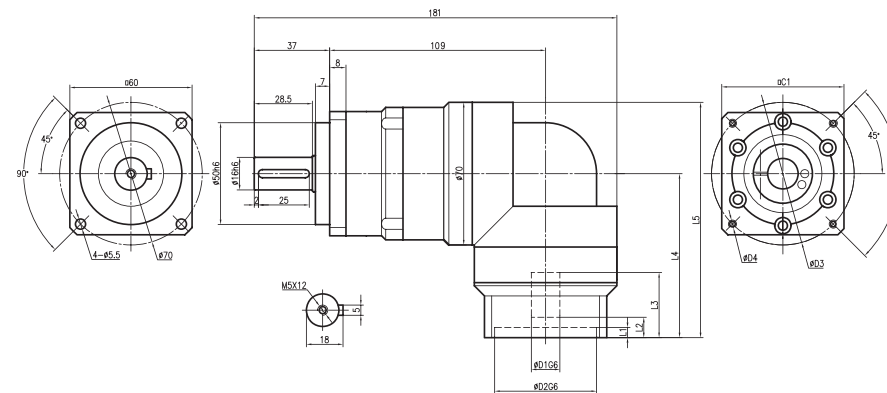
MVBR-060-L1



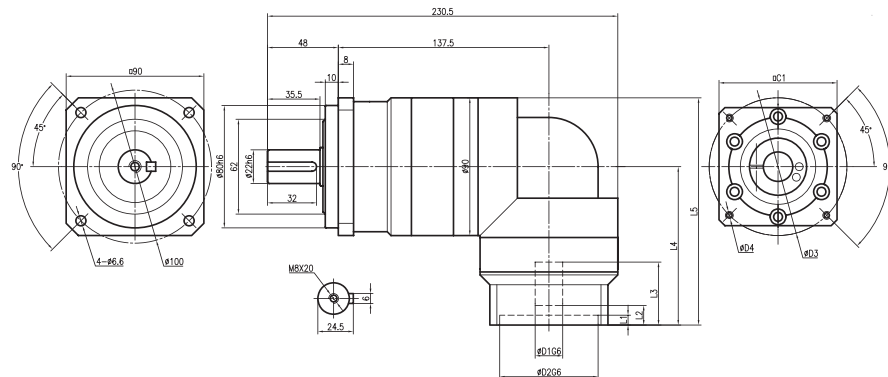
MVBR-090-L1



MVBR-060-L2



MVBR-090-L2



| Flange  | D1* | D2* | D3* | D4*    | L1* | L2*  | L3* | L4* | L5* | C1* |
|---------|-----|-----|-----|--------|-----|------|-----|-----|-----|-----|
| Type I  | Φ11 | Φ50 | Φ70 | 4-M4X8 | 5   | 10.5 | 32  | 86  | 121 | 60  |
| Type II | Φ14 | Φ50 | Φ70 | 4-M4X8 | 5   | 10.5 | 32  | 86  | 121 | 60  |

| Flange   | D1* | D2*  | D3*  | D4*     | L1* | L2* | L3* | L4* | L5* | C1* |
|----------|-----|------|------|---------|-----|-----|-----|-----|-----|-----|
| Type I   | Φ19 | Φ70  | Φ90  | 4-M8X16 | 12  | 13  | 42  | 107 | 152 | 80  |
| Type II  | Φ22 | Φ110 | Φ145 | 4-M8X16 | 12  | 13  | 47  | 112 | 157 | 130 |
| Type III | Φ24 | Φ110 | Φ145 | 4-M8X16 | 12  | 13  | 47  | 112 | 157 | 130 |

\*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！

\*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-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>2RM</sub> | F <sub>2AM</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              |                   |                   |                   |                |                 |                  |                  | 0.16              |      |                |        | 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                | 2×T <sub>2N</sub> | 3000              | 6000           | ≤8              |                  | 1200             | 1050              | 0.13 | ≥90            | >20000 |                             |      |             |     | -15~45 |  |  |  |  |
|            |             | 20              | 30                |                   |                   |                |                 |                  |                  |                   | 0.13 |                |        |                             |      |             |     |        |  |  |  |  |
| 35         |             | 45              |                   |                   |                   |                |                 |                  |                  | 0.13              |      |                |        |                             |      |             |     |        |  |  |  |  |
| 40         |             | 45              |                   |                   |                   |                |                 |                  |                  | 0.13              |      |                |        |                             |      |             |     |        |  |  |  |  |
| 50         |             | 45              |                   |                   |                   |                |                 |                  |                  | 0.13              |      |                |        |                             |      |             |     |        |  |  |  |  |
| 80         |             | 45              |                   |                   |                   |                |                 |                  |                  | 0.13              |      |                |        |                             |      |             |     |        |  |  |  |  |
| 100        |             | 30              |                   |                   |                   |                |                 |                  |                  | 0.13              |      |                |        |                             |      |             |     |        |  |  |  |  |

| MVBR-120   |             |                 |                   |                   |                   |                |                 |                  |                  |                   |      |                |        |                             |      |             |     |        |  |  |  |  |
|------------|-------------|-----------------|-------------------|-------------------|-------------------|----------------|-----------------|------------------|------------------|-------------------|------|----------------|--------|-----------------------------|------|-------------|-----|--------|--|--|--|--|
| 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>2RM</sub> | F <sub>2AM</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           | 150             |                   |                   |                   |                |                 |                  |                  | 3.25              |      |                |        | Life<br>Lubrication<br>终身润滑 | IP65 | Any<br>任何方向 | ≤72 |        |  |  |  |  |
|            | 4           | 200             |                   |                   |                   |                |                 |                  |                  | 2.74              |      |                |        |                             |      |             |     |        |  |  |  |  |
|            | 5           | 260             |                   |                   |                   |                |                 |                  |                  | 2.71              |      |                |        |                             |      |             |     |        |  |  |  |  |
|            | 6           | 300             |                   |                   |                   |                |                 |                  |                  | 2.71              |      |                |        |                             |      |             |     |        |  |  |  |  |
|            | 7           | 300             |                   |                   |                   |                |                 |                  |                  | 2.62              |      |                |        |                             |      |             |     |        |  |  |  |  |
|            | 8           | 300             |                   |                   |                   |                |                 |                  |                  | 2.60              |      |                |        |                             |      |             |     |        |  |  |  |  |
|            | 9           | 200             |                   |                   |                   |                |                 |                  |                  | 2.59              |      |                |        |                             |      |             |     |        |  |  |  |  |
|            | 10          | 200             |                   |                   |                   |                |                 |                  |                  | 2.57              |      |                |        |                             |      |             |     |        |  |  |  |  |
|            | II<br>STAGE | 15              | 200               | 2×T <sub>2N</sub> | 3000              | 6000           | ≤8              |                  | 4200             | 3800              | 0.45 | ≥90            | >20000 |                             |      |             |     | -15~45 |  |  |  |  |
|            |             | 20              | 300               |                   |                   |                |                 |                  |                  |                   | 0.45 |                |        |                             |      |             |     |        |  |  |  |  |
| 35         |             | 300             |                   |                   |                   |                |                 |                  |                  | 0.45              |      |                |        |                             |      |             |     |        |  |  |  |  |
| 40         |             | 300             |                   |                   |                   |                |                 |                  |                  | 0.45              |      |                |        |                             |      |             |     |        |  |  |  |  |
| 50         |             | 300             |                   |                   |                   |                |                 |                  |                  | 0.40              |      |                |        |                             |      |             |     |        |  |  |  |  |
| 80         |             | 300             |                   |                   |                   |                |                 |                  |                  | 0.40              |      |                |        |                             |      |             |     |        |  |  |  |  |
| 100        |             | 200             |                   |                   |                   |                |                 |                  |                  | 0.40              |      |                |        |                             |      |             |     |        |  |  |  |  |

| MVBR-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>2RM</sub> | F <sub>2AM</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           | 65              |                   |                   |                   |                |                 |                  |                  | 0.61              |      |                |        | 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                | 2×T <sub>2N</sub> | 3000              | 6000           | ≤8              |                  | 2400             | 2200              | 0.45 | ≥90            | >20000 |                             |      |             |     | -15~45 |  |  |  |  |
|            |             | 20              | 85                |                   |                   |                |                 |                  |                  |                   | 0.45 |                |        |                             |      |             |     |        |  |  |  |  |
| 35         |             | 90              |                   |                   |                   |                |                 |                  |                  | 0.45              |      |                |        |                             |      |             |     |        |  |  |  |  |
| 40         |             | 90              |                   |                   |                   |                |                 |                  |                  | 0.45              |      |                |        |                             |      |             |     |        |  |  |  |  |
| 50         |             | 90              |                   |                   |                   |                |                 |                  |                  | 0.40              |      |                |        |                             |      |             |     |        |  |  |  |  |
| 80         |             | 90              |                   |                   |                   |                |                 |                  |                  | 0.40              |      |                |        |                             |      |             |     |        |  |  |  |  |
| 100        |             | 65              |                   |                   |                   |                |                 |                  |                  | 0.40              |      |                |        |                             |      |             |     |        |  |  |  |  |

| MVBR-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>2RM</sub> | F <sub>2AM</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             |                   |                   |                   |                |                 |                  |                  | 9.21              |      |                |        | 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              |                  | 8500             | 7800              | 2.63 | ≥90            | >20000 |                             |      |             |     | -15~45 |  |  |  |  |
|            |             | 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

MVBR

Efficiency

The efficiency of planetary reducers varies with several parameters such as ratio, input speed, temperature, lubrication conditions, etc.

The efficiency was measured under the following working conditions:

|                              |          |
|------------------------------|----------|
| Input speed ( rpm )          | 3000     |
| Operating temperature ( °C ) | 25       |
| Lubricant                    | Standard |

效率特性

减速机的效率一般因减速比、输入转速、负载转速、温度、润滑条件而异。在下列测定条件下，各系列的效率如下所示。此外，图表的数值均为平均值。

|            |       |
|------------|-------|
| 输入转速 (rpm) | 3000  |
| 环境温度 (°C)  | 25    |
| 润滑剂        | 标准润滑剂 |

