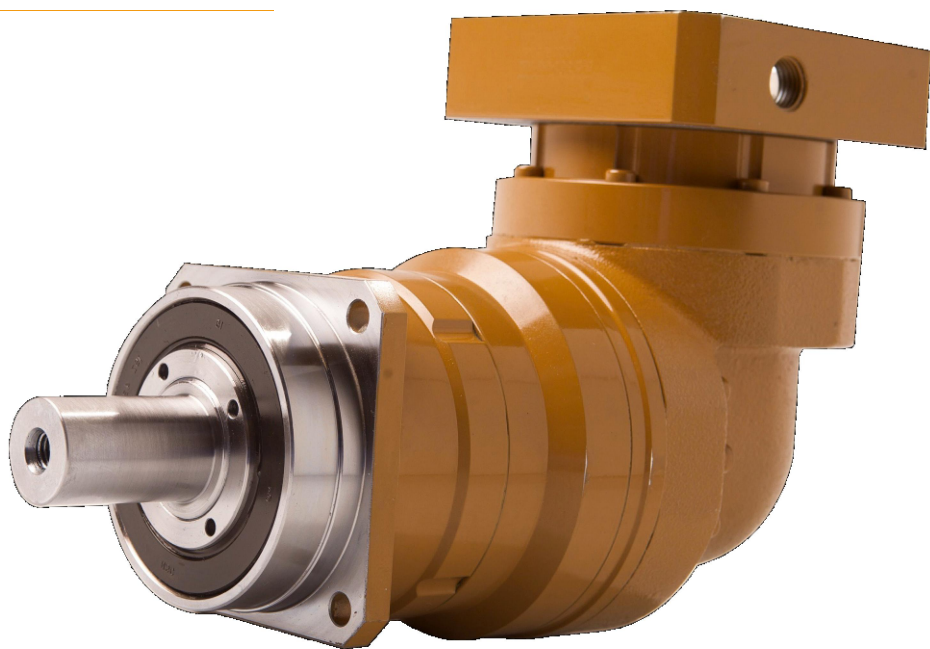


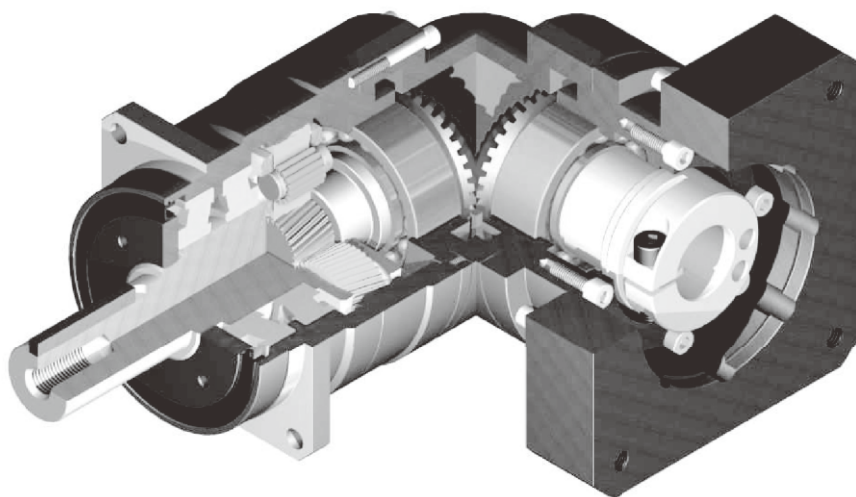
精密行星齿轮减速机

ASR

伺服电机专用



## ASR series

**省空间**

直交型减速机使用螺旋式伞齿轮, 电机的安装可实现90度弯曲, 节省了安装空间。

**Space - saving**

Right angle reducer using spiral bevel gear  
Customer can locate the motor at 90 degree away from the reducer if required to save space.

**高刚性、高扭矩**

使用整体式滚针轴承, 大大提高了刚性和扭矩。

**High rigidity & torque**

High rigidity & high torque was achieved by uncaged needle roller bearings.

**高负载**

主轴承采用锥形滚柱轴承, 实现高负载容量。

**High load**

Adopting taper roller bearing for the main output shaft to increase radial and axial load.

**连接法兰、轴套方式**

电机通用性

**Adapter-bushing connection**

Motor generality

**高粘度润滑脂**

使用高粘度、不易分离的润滑脂, 有效防止润滑脂泄漏。

**High viscosity grease**

Perfect solution by high viscosity anti-separation grease.

**维护方便**

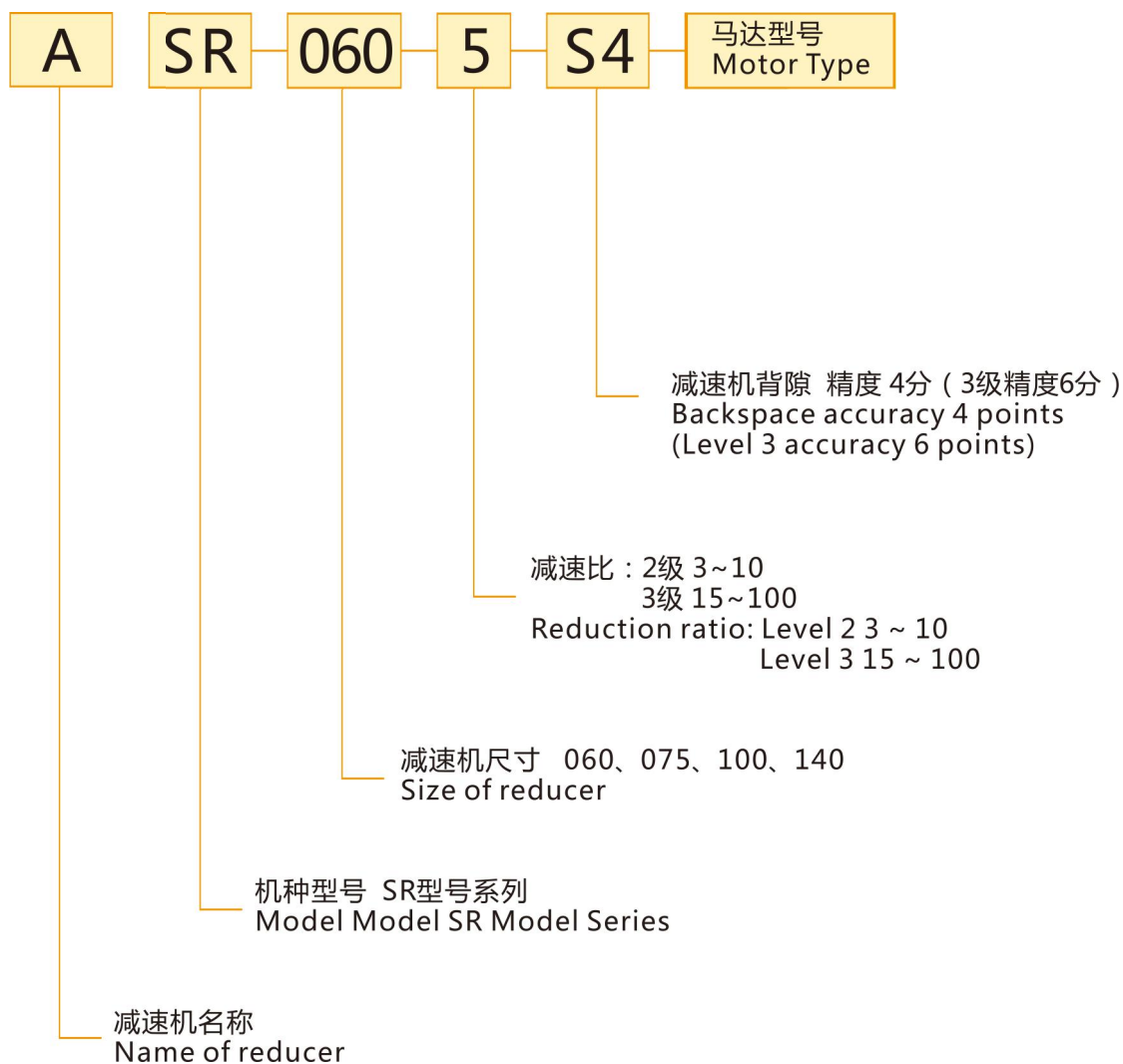
在产品寿命期内无需更换润滑脂, 安装更便捷。

**Maintenance-free**

No need to replace the grease for the life time.  
Can be attached in any position.

## ASR series

机种、型号代码 Model number



## ASR-060

| 尺寸<br>Frame size | 机种<br>Model | 减速比<br>Ratio | ①                                     |                                       |                                             | ②                                          |                                            | ③                                     |                                      |
|------------------|-------------|--------------|---------------------------------------|---------------------------------------|---------------------------------------------|--------------------------------------------|--------------------------------------------|---------------------------------------|--------------------------------------|
|                  |             |              | 额定扭矩<br>Nominal output torque<br>[Nm] | 最大扭矩<br>Maximum output torque<br>[Nm] | 急停<br>最大扭矩<br>Emergency stop torque<br>[Nm] | 额定<br>输入转速<br>Nominal input speed<br>[rpm] | 最大<br>输入转速<br>Maximum input speed<br>[rpm] | 额定径向力<br>Permitted radial load<br>[N] | 额定轴向力<br>Permitted axial load<br>[N] |
| 060              | 2           | 3            | 12                                    | 24                                    | 50                                          | 3000                                       | 6000                                       | 1700                                  | 2300                                 |
|                  |             | 4            | 16                                    | 32                                    | 65                                          | 3000                                       | 6000                                       | 1900                                  | 2500                                 |
|                  |             | 5            | 22                                    | 40                                    | 80                                          | 3000                                       | 6000                                       | 2000                                  | 2700                                 |
|                  |             | 6            | 24                                    | 45                                    | 90                                          | 3000                                       | 6000                                       | 2100                                  | 2700                                 |
|                  |             | 7            | 24                                    | 45                                    | 90                                          | 3000                                       | 6000                                       | 2200                                  | 2700                                 |
|                  |             | 8            | 24                                    | 45                                    | 90                                          | 3000                                       | 6000                                       | 2300                                  | 2700                                 |
|                  |             | 9            | 16                                    | 32                                    | 65                                          | 3000                                       | 6000                                       | 2400                                  | 2700                                 |
|                  |             | 10           | 16                                    | 32                                    | 65                                          | 3000                                       | 6000                                       | 2400                                  | 2700                                 |
|                  |             | 15           | 16                                    | 32                                    | 65                                          | 3000                                       | 6000                                       | 2800                                  | 2700                                 |
|                  |             | 16           | 24                                    | 45                                    | 90                                          | 3000                                       | 6000                                       | 2800                                  | 2700                                 |
|                  | 3           | 20           | 24                                    | 45                                    | 90                                          | 3000                                       | 6000                                       | 3000                                  | 2700                                 |
|                  |             | 25           | 24                                    | 45                                    | 90                                          | 3000                                       | 6000                                       | 3000                                  | 2700                                 |
|                  |             | 28           | 24                                    | 45                                    | 90                                          | 3000                                       | 6000                                       | 3000                                  | 2700                                 |
|                  |             | 30           | 16                                    | 32                                    | 65                                          | 3000                                       | 6000                                       | 3000                                  | 2700                                 |
|                  |             | 35           | 24                                    | 45                                    | 90                                          | 3000                                       | 6000                                       | 3000                                  | 2700                                 |
|                  |             | 40           | 24                                    | 45                                    | 90                                          | 3000                                       | 6000                                       | 3000                                  | 2700                                 |
|                  |             | 45           | 16                                    | 32                                    | 65                                          | 3000                                       | 6000                                       | 3000                                  | 2700                                 |
|                  |             | 50           | 24                                    | 45                                    | 90                                          | 3000                                       | 6000                                       | 3000                                  | 2700                                 |
|                  |             | 60           | 24                                    | 45                                    | 90                                          | 3000                                       | 6000                                       | 3000                                  | 2700                                 |
|                  |             | 70           | 24                                    | 45                                    | 90                                          | 3000                                       | 6000                                       | 3000                                  | 2700                                 |
|                  |             | 80           | 24                                    | 45                                    | 90                                          | 3000                                       | 6000                                       | 3000                                  | 2700                                 |
|                  |             | 90           | 16                                    | 32                                    | 65                                          | 3000                                       | 6000                                       | 3000                                  | 2700                                 |
|                  |             | 100          | 16                                    | 32                                    | 65                                          | 3000                                       | 6000                                       | 3000                                  | 2700                                 |

| 尺寸<br>Frame size | 机种<br>Model | 减速比<br>Ratio | ④                                           |                                            | 重量<br>Weight<br>[kg] | ⑤                                                                          |                                                                             | ⑥                                                                           |                                |
|------------------|-------------|--------------|---------------------------------------------|--------------------------------------------|----------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------|
|                  |             |              | 最大<br>径向负荷<br>Maximum<br>radial load<br>[N] | 最大<br>轴向负荷<br>Maximum<br>axial load<br>[N] |                      | 惯性力矩<br>Moment<br>of inertia<br>( $\leq \phi 8$ )<br>[kg·cm <sup>2</sup> ] | 惯性力矩<br>Moment<br>of inertia<br>( $\leq \phi 14$ )<br>[kg·cm <sup>2</sup> ] | 惯性力矩<br>Moment<br>of inertia<br>( $\leq \phi 19$ )<br>[kg·cm <sup>2</sup> ] | 使用温度<br>Use the<br>temperature |
| 060              | 2           | 3            | 3000                                        | 2700                                       | 2.0                  | 0.320                                                                      | 0.395                                                                       | 0.584                                                                       | -20℃ ~ 175℃                    |
|                  |             | 4            | 3000                                        | 2700                                       |                      | 0.271                                                                      | 0.346                                                                       | 0.535                                                                       |                                |
|                  |             | 5            | 3000                                        | 2700                                       |                      | 0.251                                                                      | 0.326                                                                       | 0.516                                                                       |                                |
|                  |             | 6            | 3000                                        | 2700                                       |                      | 0.242                                                                      | 0.317                                                                       | 0.506                                                                       |                                |
|                  |             | 7            | 3000                                        | 2700                                       |                      | 0.235                                                                      | 0.310                                                                       | 0.500                                                                       |                                |
|                  |             | 8            | 3000                                        | 2700                                       |                      | 0.232                                                                      | 0.307                                                                       | 0.496                                                                       |                                |
|                  |             | 9            | 3000                                        | 2700                                       |                      | 0.229                                                                      | 0.304                                                                       | 0.494                                                                       |                                |
|                  |             | 10           | 3000                                        | 2700                                       |                      | 0.228                                                                      | 0.303                                                                       | 0.492                                                                       |                                |
|                  | 3           | 15           | 3000                                        | 2700                                       | 1.8                  | 0.074                                                                      | 0.118                                                                       | -                                                                           |                                |
|                  |             | 16           | 3000                                        | 2700                                       |                      | 0.079                                                                      | 0.124                                                                       | -                                                                           |                                |
|                  |             | 20           | 3000                                        | 2700                                       |                      | 0.072                                                                      | 0.116                                                                       | -                                                                           |                                |
|                  |             | 25           | 3000                                        | 2700                                       |                      | 0.071                                                                      | 0.115                                                                       | -                                                                           |                                |
|                  |             | 28           | 3000                                        | 2700                                       |                      | 0.077                                                                      | 0.122                                                                       | -                                                                           |                                |
|                  |             | 30           | 3000                                        | 2700                                       |                      | 0.062                                                                      | 0.106                                                                       | -                                                                           |                                |
|                  |             | 35           | 3000                                        | 2700                                       |                      | 0.070                                                                      | 0.115                                                                       | -                                                                           |                                |
|                  |             | 40           | 3000                                        | 2700                                       |                      | 0.061                                                                      | 0.106                                                                       | -                                                                           |                                |
|                  |             | 45           | 3000                                        | 2700                                       |                      | 0.070                                                                      | 0.115                                                                       | -                                                                           |                                |
|                  |             | 50           | 3000                                        | 2700                                       |                      | 0.061                                                                      | 0.106                                                                       | -                                                                           |                                |
|                  |             | 60           | 3000                                        | 2700                                       |                      | 0.061                                                                      | 0.106                                                                       | -                                                                           |                                |
|                  |             | 70           | 3000                                        | 2700                                       |                      | 0.061                                                                      | 0.106                                                                       | -                                                                           |                                |
|                  |             | 80           | 3000                                        | 2700                                       |                      | 0.061                                                                      | 0.105                                                                       | -                                                                           |                                |
|                  |             | 90           | 3000                                        | 2700                                       |                      | 0.061                                                                      | 0.105                                                                       | -                                                                           |                                |
|                  |             | 100          | 3000                                        | 2700                                       |                      | 0.061                                                                      | 0.105                                                                       | -                                                                           |                                |

- ① 输入转速为额定转速时，使用寿命为 20000 小时的值  
 ② 输入转速为额定转速时，使用寿命为 20000 小时的值  
 （作用于轴中央，轴向负荷为 0 时）  
 ③ 输入转速为额定转速时，使用寿命为 20000 小时的值  
 （作用于轴芯，径向负荷为 0 时）  
 ④ 径向负荷的容许最大值  
 ⑤ 轴向负荷的容许最大值  
 ⑥ 使用温度 -20℃ ~ 175℃（使用温度可根据用户要求定制）

- ① With nominal input speed, service life is 20,000 hours.  
 ② With this load and nominal input speed, service life will be 20,000 hours.  
 （Applied to the output shaft center, at axial load 0）  
 ③ With this load and nominal input speed, service life will be 20,000 hours.  
 （Applied to the output side bearing, at radial load 0）  
 ④ The maximum radial load the reducer can accept.  
 ⑤ The maximum axial load the reducer can accept.  
 ⑥ Use the temperature -20℃ ~ 175℃  
 The use temperature can be customized according to user requirements.



## ASR-075

| 尺寸<br>Frame size | 机种<br>Model | 减速比<br>Ratio | ①                                     |                                       |                                             | ②                                          |                                            | ③                                     |                                      |
|------------------|-------------|--------------|---------------------------------------|---------------------------------------|---------------------------------------------|--------------------------------------------|--------------------------------------------|---------------------------------------|--------------------------------------|
|                  |             |              | 额定扭矩<br>Nominal output torque<br>[Nm] | 最大扭矩<br>Maximum output torque<br>[Nm] | 急停<br>最大扭矩<br>Emergency stop torque<br>[Nm] | 额定<br>输入转速<br>Nominal input speed<br>[rpm] | 最大<br>输入转速<br>Maximum input speed<br>[rpm] | 额定径向力<br>Permitted radial load<br>[N] | 额定轴向力<br>Permitted axial load<br>[N] |
| 075              | 2           | 3            | 45                                    | 65                                    | 130                                         | 3000                                       | 6000                                       | 2300                                  | 3400                                 |
|                  |             | 4            | 60                                    | 90                                    | 170                                         | 3000                                       | 6000                                       | 2500                                  | 3700                                 |
|                  |             | 5            | 65                                    | 90                                    | 220                                         | 3000                                       | 6000                                       | 2700                                  | 3900                                 |
|                  |             | 6            | 65                                    | 90                                    | 220                                         | 3000                                       | 6000                                       | 2800                                  | 3900                                 |
|                  |             | 7            | 65                                    | 90                                    | 220                                         | 3000                                       | 6000                                       | 3000                                  | 3900                                 |
|                  |             | 8            | 65                                    | 90                                    | 220                                         | 3000                                       | 6000                                       | 3100                                  | 3900                                 |
|                  |             | 9            | 45                                    | 65                                    | 170                                         | 3000                                       | 6000                                       | 3200                                  | 3900                                 |
|                  |             | 10           | 45                                    | 65                                    | 170                                         | 3000                                       | 6000                                       | 3300                                  | 3900                                 |
|                  | 3           | 15           | 45                                    | 65                                    | 170                                         | 3000                                       | 6000                                       | 3700                                  | 3900                                 |
|                  |             | 16           | 65                                    | 110                                   | 220                                         | 3000                                       | 6000                                       | 3800                                  | 3900                                 |
|                  |             | 20           | 65                                    | 110                                   | 220                                         | 3000                                       | 6000                                       | 4000                                  | 3900                                 |
|                  |             | 25           | 65                                    | 110                                   | 220                                         | 3000                                       | 6000                                       | 4300                                  | 3900                                 |
|                  |             | 28           | 65                                    | 110                                   | 220                                         | 3000                                       | 6000                                       | 4300                                  | 3900                                 |
|                  |             | 30           | 45                                    | 65                                    | 170                                         | 3000                                       | 6000                                       | 4300                                  | 3900                                 |
|                  |             | 35           | 65                                    | 110                                   | 220                                         | 3000                                       | 6000                                       | 4300                                  | 3900                                 |
|                  |             | 40           | 65                                    | 110                                   | 220                                         | 3000                                       | 6000                                       | 4300                                  | 3900                                 |
|                  |             | 45           | 45                                    | 65                                    | 170                                         | 3000                                       | 6000                                       | 4300                                  | 3900                                 |
|                  |             | 50           | 65                                    | 110                                   | 220                                         | 3000                                       | 6000                                       | 4300                                  | 3900                                 |
|                  |             | 60           | 65                                    | 110                                   | 220                                         | 3000                                       | 6000                                       | 4300                                  | 3900                                 |
|                  |             | 70           | 65                                    | 110                                   | 220                                         | 3000                                       | 6000                                       | 4300                                  | 3900                                 |
|                  |             | 80           | 65                                    | 110                                   | 220                                         | 3000                                       | 6000                                       | 4300                                  | 3900                                 |
|                  |             | 90           | 45                                    | 65                                    | 170                                         | 3000                                       | 6000                                       | 4300                                  | 3900                                 |
|                  |             | 100          | 45                                    | 65                                    | 170                                         | 3000                                       | 6000                                       | 4300                                  | 3900                                 |

| 尺寸<br>Frame size | 机种<br>Model | 减速比<br>Ratio | ④                                        |                                         | 重量<br>Weight<br>[kg] | ⑤                                        |                                         | 惯性力矩<br>Moment of inertia<br>( $\leq \phi 8$ )<br>[kg·cm <sup>2</sup> ] | 惯性力矩<br>Moment of inertia<br>( $\leq \phi 14$ )<br>[kg·cm <sup>2</sup> ] | 惯性力矩<br>Moment of inertia<br>( $\leq \phi 19$ )<br>[kg·cm <sup>2</sup> ] | 惯性力矩<br>Moment of inertia<br>( $\leq \phi 28$ )<br>[kg·cm <sup>2</sup> ] |
|------------------|-------------|--------------|------------------------------------------|-----------------------------------------|----------------------|------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
|                  |             |              | 最大<br>径向负荷<br>Maximum radial load<br>[N] | 最大<br>轴向负荷<br>Maximum axial load<br>[N] |                      | 最大<br>径向负荷<br>Maximum radial load<br>[N] | 最大<br>轴向负荷<br>Maximum axial load<br>[N] |                                                                         |                                                                          |                                                                          |                                                                          |
| 075              | 2           | 3            | 4300                                     | 3900                                    | 4.8                  | -                                        | -                                       | 2.07                                                                    | 2.40                                                                     | 4.53                                                                     | -                                                                        |
|                  |             | 4            | 4300                                     | 3900                                    |                      | -                                        | -                                       | 1.87                                                                    | 2.20                                                                     | 4.32                                                                     | -                                                                        |
|                  |             | 5            | 4300                                     | 3900                                    |                      | -                                        | -                                       | 1.78                                                                    | 2.11                                                                     | 4.24                                                                     | -                                                                        |
|                  |             | 6            | 4300                                     | 3900                                    |                      | -                                        | -                                       | 1.74                                                                    | 2.07                                                                     | 4.20                                                                     | -                                                                        |
|                  |             | 7            | 4300                                     | 3900                                    |                      | -                                        | -                                       | 1.72                                                                    | 2.05                                                                     | 4.17                                                                     | -                                                                        |
|                  |             | 8            | 4300                                     | 3900                                    |                      | -                                        | -                                       | 1.70                                                                    | 2.03                                                                     | 4.16                                                                     | -                                                                        |
|                  |             | 9            | 4300                                     | 3900                                    |                      | -                                        | -                                       | 1.69                                                                    | 2.02                                                                     | 4.15                                                                     | -                                                                        |
|                  |             | 10           | 4300                                     | 3900                                    |                      | -                                        | -                                       | 1.69                                                                    | 2.02                                                                     | 4.15                                                                     | -                                                                        |
|                  | 3           | 15           | 4300                                     | 3900                                    | 4.1                  | 0.33                                     | 0.41                                    | 0.60                                                                    | -                                                                        | -                                                                        | -                                                                        |
|                  |             | 16           | 4300                                     | 3900                                    |                      | 0.38                                     | 0.46                                    | 0.65                                                                    | -                                                                        | -                                                                        | -                                                                        |
|                  |             | 20           | 4300                                     | 3900                                    |                      | 0.33                                     | 0.40                                    | 0.59                                                                    | -                                                                        | -                                                                        | -                                                                        |
|                  |             | 25           | 4300                                     | 3900                                    |                      | 0.32                                     | 0.40                                    | 0.59                                                                    | -                                                                        | -                                                                        | -                                                                        |
|                  |             | 28           | 4300                                     | 3900                                    |                      | 0.37                                     | 0.45                                    | 0.64                                                                    | -                                                                        | -                                                                        | -                                                                        |
|                  |             | 30           | 4300                                     | 3900                                    |                      | 0.25                                     | 0.32                                    | 0.51                                                                    | -                                                                        | -                                                                        | -                                                                        |
|                  |             | 35           | 4300                                     | 3900                                    |                      | 0.32                                     | 0.40                                    | 0.58                                                                    | -                                                                        | -                                                                        | -                                                                        |
|                  |             | 40           | 4300                                     | 3900                                    |                      | 0.25                                     | 0.32                                    | 0.51                                                                    | -                                                                        | -                                                                        | -                                                                        |
|                  |             | 45           | 4300                                     | 3900                                    |                      | 0.32                                     | 0.39                                    | 0.58                                                                    | -                                                                        | -                                                                        | -                                                                        |
|                  |             | 50           | 4300                                     | 3900                                    |                      | 0.25                                     | 0.32                                    | 0.51                                                                    | -                                                                        | -                                                                        | -                                                                        |
|                  |             | 60           | 4300                                     | 3900                                    |                      | 0.25                                     | 0.32                                    | 0.51                                                                    | -                                                                        | -                                                                        | -                                                                        |
|                  |             | 70           | 4300                                     | 3900                                    |                      | 0.25                                     | 0.32                                    | 0.51                                                                    | -                                                                        | -                                                                        | -                                                                        |
|                  |             | 80           | 4300                                     | 3900                                    |                      | 0.25                                     | 0.32                                    | 0.51                                                                    | -                                                                        | -                                                                        | -                                                                        |
|                  |             | 90           | 4300                                     | 3900                                    |                      | 0.25                                     | 0.32                                    | 0.51                                                                    | -                                                                        | -                                                                        | -                                                                        |
|                  |             | 100          | 4300                                     | 3900                                    |                      | 0.25                                     | 0.32                                    | 0.51                                                                    | -                                                                        | -                                                                        | -                                                                        |

① 输入转速为额定转速时，使用寿命为 20000 小时的值

② 输入转速为额定转速时，使用寿命为 20000 小时的值  
(作用于轴中央，轴向负荷为 0 时)

③ 输入转速为额定转速时，使用寿命为 20000 小时的值  
(作用于轴芯，径向负荷为 0 时)

④ 径向负荷的容许最大值

⑤ 轴向负荷的容许最大值

注：使用温度 -20℃ ~ 175℃ (使用温度可根据用户要求定制)

① With nominal input speed, service life is 20,000 hours.

② With this load and nominal input speed, service life will be 20,000 hours.  
(Applied to the output shaft center, at axial load 0)

③ With this load and nominal input speed, service life will be 20,000 hours.  
(Applied to the output side bearing, at radial load 0)

④ The maximum radial load the reducer can accept.

⑤ The maximum axial load the reducer can accept.

Note: Use the temperature -20℃ ~ 175℃

The use temperature can be customized according to user requirements.

## ASR-100

| 尺寸<br>Frame size | 机种<br>Model | 减速比<br>Ratio | ❶                                     |                                       |                                             | ❷                                          |                                            | ❸                                     |                                      |
|------------------|-------------|--------------|---------------------------------------|---------------------------------------|---------------------------------------------|--------------------------------------------|--------------------------------------------|---------------------------------------|--------------------------------------|
|                  |             |              | 额定扭矩<br>Nominal output torque<br>[Nm] | 最大扭矩<br>Maximum output torque<br>[Nm] | 急停<br>最大扭矩<br>Emergency stop torque<br>[Nm] | 额定<br>输入转速<br>Nominal input speed<br>[rpm] | 最大<br>输入转速<br>Maximum input speed<br>[rpm] | 额定径向力<br>Permitted radial load<br>[N] | 额定轴向力<br>Permitted axial load<br>[N] |
| 100              | 2           | 3            | 75                                    | 150                                   | 320                                         | 3000                                       | 6000                                       | 3400                                  | 4800                                 |
|                  |             | 4            | 100                                   | 200                                   | 430                                         | 3000                                       | 6000                                       | 3700                                  | 5200                                 |
|                  |             | 5            | 120                                   | 240                                   | 500                                         | 3000                                       | 6000                                       | 4000                                  | 5600                                 |
|                  |             | 6            | 150                                   | 300                                   | 550                                         | 3000                                       | 6000                                       | 4200                                  | 5900                                 |
|                  |             | 7            | 150                                   | 300                                   | 550                                         | 3000                                       | 6000                                       | 4400                                  | 6100                                 |
|                  |             | 8            | 150                                   | 300                                   | 550                                         | 3000                                       | 6000                                       | 4600                                  | 6300                                 |
|                  |             | 9            | 110                                   | 200                                   | 450                                         | 3000                                       | 6000                                       | 4800                                  | 6300                                 |
|                  |             | 10           | 110                                   | 200                                   | 450                                         | 3000                                       | 6000                                       | 4900                                  | 6300                                 |
|                  | 3           | 15           | 110                                   | 200                                   | 450                                         | 3000                                       | 6000                                       | 5600                                  | 6300                                 |
|                  |             | 16           | 130                                   | 260                                   | 550                                         | 3000                                       | 6000                                       | 5700                                  | 6300                                 |
|                  |             | 20           | 150                                   | 300                                   | 550                                         | 3000                                       | 6000                                       | 6100                                  | 6300                                 |
|                  |             | 25           | 150                                   | 300                                   | 550                                         | 3000                                       | 6000                                       | 6500                                  | 6300                                 |
|                  |             | 28           | 150                                   | 300                                   | 550                                         | 3000                                       | 6000                                       | 6700                                  | 6300                                 |
|                  |             | 30           | 110                                   | 200                                   | 450                                         | 3000                                       | 6000                                       | 6900                                  | 6300                                 |
|                  |             | 35           | 150                                   | 300                                   | 550                                         | 3000                                       | 6000                                       | 7000                                  | 6300                                 |
|                  |             | 40           | 150                                   | 300                                   | 550                                         | 3000                                       | 6000                                       | 7000                                  | 6300                                 |
|                  |             | 45           | 110                                   | 200                                   | 450                                         | 3000                                       | 6000                                       | 7000                                  | 6300                                 |
|                  |             | 50           | 150                                   | 300                                   | 550                                         | 3000                                       | 6000                                       | 7000                                  | 6300                                 |

| 尺寸<br>Frame size | 机种<br>Model | 减速比<br>Ratio | ❹                                        |                                         | 重量<br>Weight<br>[kg] | ❺                                        |                                         | 惯性力矩<br>Moment of inertia<br>( $\leq \phi 14$ )<br>[kg·cm <sup>2</sup> ] | 惯性力矩<br>Moment of inertia<br>( $\leq \phi 19$ )<br>[kg·cm <sup>2</sup> ] | 惯性力矩<br>Moment of inertia<br>( $\leq \phi 28$ )<br>[kg·cm <sup>2</sup> ] | 惯性力矩<br>Moment of inertia<br>( $\leq \phi 38$ )<br>[kg·cm <sup>2</sup> ] |
|------------------|-------------|--------------|------------------------------------------|-----------------------------------------|----------------------|------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
|                  |             |              | 最大<br>径向负荷<br>Maximum radial load<br>[N] | 最大<br>轴向负荷<br>Maximum axial load<br>[N] |                      | 最大<br>径向负荷<br>Maximum radial load<br>[N] | 最大<br>轴向负荷<br>Maximum axial load<br>[N] |                                                                          |                                                                          |                                                                          |                                                                          |
| 100              | 2           | 3            | 7000                                     | 6300                                    | 10.5                 | -                                        | 6.61                                    | 8.21                                                                     | 15.28                                                                    |                                                                          |                                                                          |
|                  |             | 4            | 7000                                     | 6300                                    |                      | -                                        | 5.41                                    | 7.01                                                                     | 14.08                                                                    |                                                                          |                                                                          |
|                  |             | 5            | 7000                                     | 6300                                    |                      | -                                        | 4.97                                    | 6.57                                                                     | 13.64                                                                    |                                                                          |                                                                          |
|                  |             | 6            | 7000                                     | 6300                                    |                      | -                                        | 4.73                                    | 6.33                                                                     | 13.40                                                                    |                                                                          |                                                                          |
|                  |             | 7            | 7000                                     | 6300                                    |                      | -                                        | 4.62                                    | 6.22                                                                     | 13.29                                                                    |                                                                          |                                                                          |
|                  |             | 8            | 7000                                     | 6300                                    |                      | -                                        | 4.53                                    | 6.12                                                                     | 13.20                                                                    |                                                                          |                                                                          |
|                  |             | 9            | 7000                                     | 6300                                    |                      | -                                        | 4.47                                    | 6.07                                                                     | 13.14                                                                    |                                                                          |                                                                          |
|                  |             | 10           | 7000                                     | 6300                                    |                      | -                                        | 4.45                                    | 6.04                                                                     | 13.11                                                                    |                                                                          |                                                                          |
|                  | 3           | 15           | 7000                                     | 6300                                    | 10.1                 | 2.24                                     | 2.57                                    | 4.70                                                                     | -                                                                        |                                                                          |                                                                          |
|                  |             | 16           | 7000                                     | 6300                                    |                      | 2.45                                     | 2.78                                    | 4.91                                                                     | -                                                                        |                                                                          |                                                                          |
|                  |             | 20           | 7000                                     | 6300                                    |                      | 2.19                                     | 2.52                                    | 4.65                                                                     | -                                                                        |                                                                          |                                                                          |
|                  |             | 25           | 7000                                     | 6300                                    |                      | 2.18                                     | 2.51                                    | 4.63                                                                     | -                                                                        |                                                                          |                                                                          |
|                  |             | 28           | 7000                                     | 6300                                    |                      | 2.40                                     | 2.73                                    | 4.86                                                                     | -                                                                        |                                                                          |                                                                          |
|                  |             | 30           | 7000                                     | 6300                                    |                      | 1.87                                     | 2.20                                    | 4.33                                                                     | -                                                                        |                                                                          |                                                                          |
|                  |             | 35           | 7000                                     | 6300                                    |                      | 2.16                                     | 2.49                                    | 4.62                                                                     | -                                                                        |                                                                          |                                                                          |
|                  |             | 40           | 7000                                     | 6300                                    |                      | 1.86                                     | 2.19                                    | 4.32                                                                     | -                                                                        |                                                                          |                                                                          |
|                  |             | 45           | 7000                                     | 6300                                    |                      | 2.15                                     | 2.48                                    | 4.61                                                                     | -                                                                        |                                                                          |                                                                          |
|                  |             | 50           | 7000                                     | 6300                                    |                      | 1.86                                     | 2.19                                    | 4.31                                                                     | -                                                                        |                                                                          |                                                                          |

- ❶ 输入转速为额定转速时，使用寿命为 20000 小时的值  
 ❷ 输入转速为额定转速时，使用寿命为 20000 小时的值  
 （作用于轴中央，轴向负荷为 0 时）  
 ❸ 输入转速为额定转速时，使用寿命为 20000 小时的值  
 （作用于轴芯，径向负荷为 0 时）  
 ❹ 径向负荷的容许最大值  
 ❺ 轴向负荷的容许最大值  
 注：使用温度 -20℃ ~ 175℃（使用温度可根据用户要求定制）

- ❶ With nominal input speed, service life is 20,000 hours.  
 ❷ With this load and nominal input speed, service life will be 20,000 hours.  
 (Applied to the output shaft center, at axial load 0)  
 ❸ With this load and nominal input speed, service life will be 20,000 hours.  
 (Applied to the output side bearing, at radial load 0)  
 ❹ The maximum radial load the reducer can accept.  
 ❺ The maximum axial load the reducer can accept.  
 Note: Use the temperature -20℃ ~ 175℃  
 The use temperature can be customized according to user requirements.

## ASR-140

| 尺寸<br>Frame size | 机种<br>Model | 减速比<br>Ratio | ①                                     |                                       |                                             | ②                                          |                                            | ③                                     |                                      |
|------------------|-------------|--------------|---------------------------------------|---------------------------------------|---------------------------------------------|--------------------------------------------|--------------------------------------------|---------------------------------------|--------------------------------------|
|                  |             |              | 额定扭矩<br>Nominal output torque<br>[Nm] | 最大扭矩<br>Maximum output torque<br>[Nm] | 急停<br>最大扭矩<br>Emergency stop torque<br>[Nm] | 额定<br>输入转速<br>Nominal input speed<br>[rpm] | 最大<br>输入转速<br>Maximum input speed<br>[rpm] | 额定径向力<br>Permitted radial load<br>[N] | 额定轴向力<br>Permitted axial load<br>[N] |
| 140              | 2           | 3            | 130                                   | 260                                   | 700                                         | 2000                                       | 4000                                       | 6700                                  | 9000                                 |
|                  |             | 4            | 170                                   | 340                                   | 950                                         | 2000                                       | 4000                                       | 7400                                  | 9000                                 |
|                  |             | 5            | 200                                   | 400                                   | 1100                                        | 2000                                       | 4000                                       | 7900                                  | 9000                                 |
|                  |             | 6            | 260                                   | 520                                   | 1100                                        | 2000                                       | 4000                                       | 8300                                  | 9000                                 |
|                  |             | 7            | 300                                   | 600                                   | 1100                                        | 2000                                       | 4000                                       | 8700                                  | 9000                                 |
|                  |             | 8            | 300                                   | 600                                   | 1100                                        | 2000                                       | 4000                                       | 9100                                  | 9000                                 |
|                  |             | 9            | 200                                   | 400                                   | 750                                         | 2000                                       | 4000                                       | 9400                                  | 9000                                 |
|                  |             | 10           | 200                                   | 400                                   | 750                                         | 2000                                       | 4000                                       | 9700                                  | 9000                                 |
|                  | 3           | 15           | 200                                   | 400                                   | 750                                         | 2000                                       | 4000                                       | 10000                                 | 9000                                 |
|                  |             | 16           | 300                                   | 600                                   | 1100                                        | 2000                                       | 4000                                       | 10000                                 | 9000                                 |
|                  |             | 20           | 300                                   | 600                                   | 1100                                        | 2000                                       | 4000                                       | 10000                                 | 9000                                 |
|                  |             | 25           | 300                                   | 600                                   | 1100                                        | 2000                                       | 4000                                       | 10000                                 | 9000                                 |
|                  |             | 28           | 300                                   | 600                                   | 1100                                        | 2000                                       | 4000                                       | 10000                                 | 9000                                 |
|                  |             | 30           | 200                                   | 400                                   | 750                                         | 2000                                       | 4000                                       | 10000                                 | 9000                                 |
|                  |             | 35           | 300                                   | 600                                   | 1100                                        | 2000                                       | 4000                                       | 10000                                 | 9000                                 |
|                  |             | 40           | 300                                   | 600                                   | 1100                                        | 2000                                       | 4000                                       | 10000                                 | 9000                                 |
|                  |             | 45           | 200                                   | 400                                   | 750                                         | 2000                                       | 4000                                       | 10000                                 | 9000                                 |
|                  |             | 50           | 300                                   | 600                                   | 1100                                        | 2000                                       | 4000                                       | 10000                                 | 9000                                 |

| 尺寸<br>Frame size | 机种<br>Model | 减速比<br>Ratio | ④                                        |                                         | 重量<br>Weight<br>[kg] | ⑤                                        |                                         | 惯性力矩<br>Moment of inertia<br>( $\leq \phi 19$ )<br>[kg·cm <sup>2</sup> ] | 惯性力矩<br>Moment of inertia<br>( $\leq \phi 28$ )<br>[kg·cm <sup>2</sup> ] | 惯性力矩<br>Moment of inertia<br>( $\leq \phi 38$ )<br>[kg·cm <sup>2</sup> ] | 惯性力矩<br>Moment of inertia<br>( $\leq \phi 48$ )<br>[kg·cm <sup>2</sup> ] |
|------------------|-------------|--------------|------------------------------------------|-----------------------------------------|----------------------|------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
|                  |             |              | 最大<br>径向负荷<br>Maximum radial load<br>[N] | 最大<br>轴向负荷<br>Maximum axial load<br>[N] |                      | 最大<br>径向负荷<br>Maximum radial load<br>[N] | 最大<br>轴向负荷<br>Maximum axial load<br>[N] |                                                                          |                                                                          |                                                                          |                                                                          |
| 140              | 2           | 3            | 10000                                    | 9000                                    | 20.6                 | -                                        | 23.01                                   | 27.38                                                                    | 40.61                                                                    |                                                                          |                                                                          |
|                  |             | 4            | 10000                                    | 9000                                    |                      | -                                        | 18.49                                   | 22.86                                                                    | 36.09                                                                    |                                                                          |                                                                          |
|                  |             | 5            | 10000                                    | 9000                                    |                      | -                                        | 16.85                                   | 21.22                                                                    | 34.45                                                                    |                                                                          |                                                                          |
|                  |             | 6            | 10000                                    | 9000                                    |                      | -                                        | 15.97                                   | 20.34                                                                    | 33.57                                                                    |                                                                          |                                                                          |
|                  |             | 7            | 10000                                    | 9000                                    |                      | -                                        | 15.55                                   | 19.92                                                                    | 33.15                                                                    |                                                                          |                                                                          |
|                  |             | 8            | 10000                                    | 9000                                    |                      | -                                        | 15.21                                   | 19.58                                                                    | 32.81                                                                    |                                                                          |                                                                          |
|                  |             | 9            | 10000                                    | 9000                                    |                      | -                                        | 14.75                                   | 19.12                                                                    | 32.35                                                                    |                                                                          |                                                                          |
|                  |             | 10           | 10000                                    | 9000                                    |                      | -                                        | 14.64                                   | 19.02                                                                    | 32.25                                                                    |                                                                          |                                                                          |
|                  | 3           | 15           | 10000                                    | 9000                                    | 20.7                 | 6.40                                     | 7.99                                    | 15.06                                                                    | -                                                                        |                                                                          |                                                                          |
|                  |             | 16           | 10000                                    | 9000                                    |                      | 7.29                                     | 8.88                                    | 15.95                                                                    | -                                                                        |                                                                          |                                                                          |
|                  |             | 20           | 10000                                    | 9000                                    |                      | 6.22                                     | 7.81                                    | 14.88                                                                    | -                                                                        |                                                                          |                                                                          |
|                  |             | 25           | 10000                                    | 9000                                    |                      | 6.15                                     | 7.75                                    | 14.82                                                                    | -                                                                        |                                                                          |                                                                          |
|                  |             | 28           | 10000                                    | 9000                                    |                      | 7.09                                     | 8.68                                    | 15.75                                                                    | -                                                                        |                                                                          |                                                                          |
|                  |             | 30           | 10000                                    | 9000                                    |                      | 4.99                                     | 6.58                                    | 13.66                                                                    | -                                                                        |                                                                          |                                                                          |
|                  |             | 35           | 10000                                    | 9000                                    |                      | 6.09                                     | 7.68                                    | 14.76                                                                    | -                                                                        |                                                                          |                                                                          |
|                  |             | 40           | 10000                                    | 9000                                    |                      | 4.94                                     | 6.54                                    | 13.61                                                                    | -                                                                        |                                                                          |                                                                          |
|                  |             | 45           | 10000                                    | 9000                                    |                      | 6.07                                     | 7.66                                    | 14.73                                                                    | -                                                                        |                                                                          |                                                                          |
|                  |             | 50           | 10000                                    | 9000                                    |                      | 4.93                                     | 6.52                                    | 13.59                                                                    | -                                                                        |                                                                          |                                                                          |

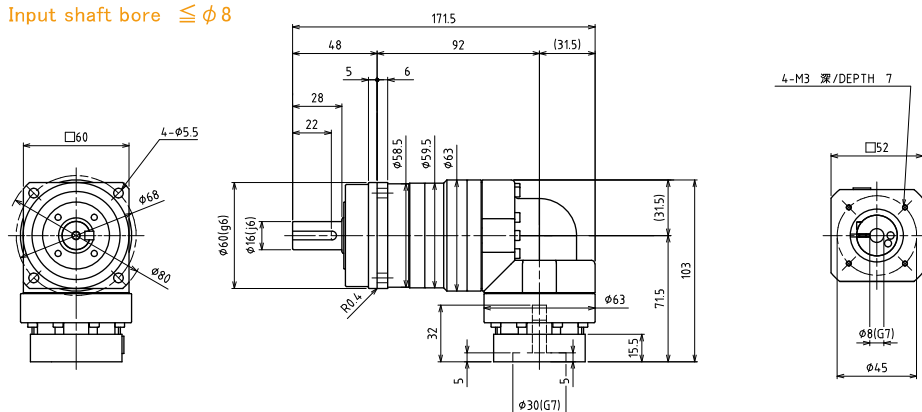
- ① 输入转速为额定转速时，使用寿命为 20000 小时的值  
 ② 输入转速为额定转速时，使用寿命为 20000 小时的值  
 （作用于轴中央，轴向负荷为 0 时）  
 ③ 输入转速为额定转速时，使用寿命为 20000 小时的值  
 （作用于轴芯，径向负荷为 0 时）  
 ④ 径向负荷的容许最大值  
 ⑤ 轴向负荷的容许最大值  
 注：使用温度 -20℃ ~ 175℃（使用温度可根据用户要求定制）

- ① With nominal input speed, service life is 20,000 hours.  
 ② With this load and nominal input speed, service life will be 20,000 hours.  
 (Applied to the output shaft center, at axial load 0)  
 ③ With this load and nominal input speed, service life will be 20,000 hours.  
 (Applied to the output side bearing, at radial load 0)  
 ④ The maximum radial load the reducer can accept.  
 ⑤ The maximum axial load the reducer can accept.  
 Note: Use the temperature -20℃ ~ 175℃  
 The use temperature can be customized according to user requirements.

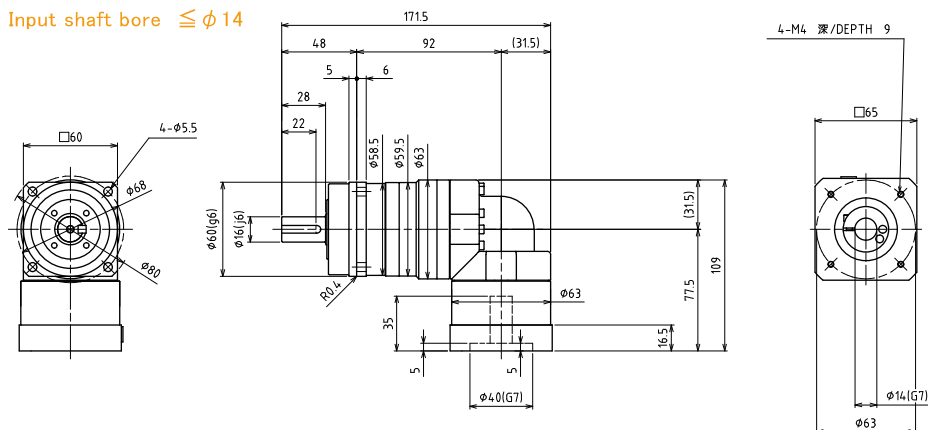


### ASR-060 2级 2stage

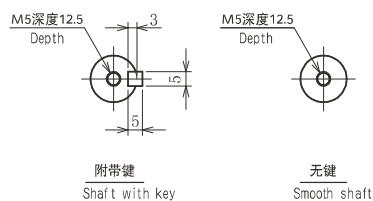
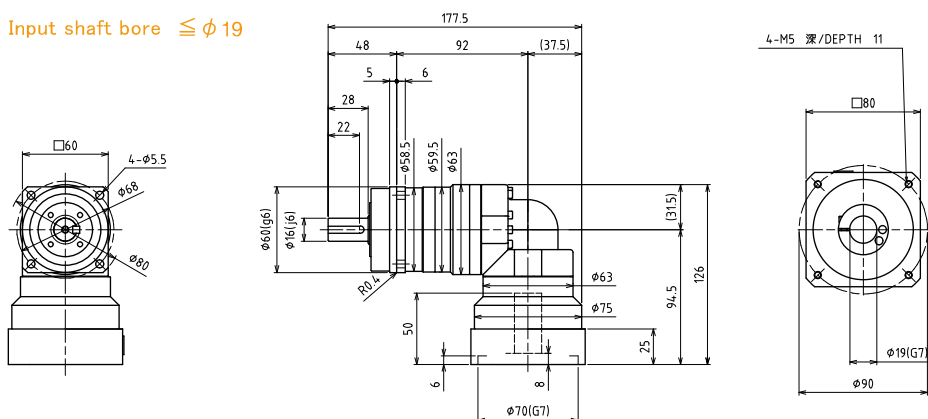
输入轴内径 Input shaft bore  $\leq \phi 8$



输入轴内径 Input shaft bore  $\leq \phi 14$



输入轴内径 Input shaft bore  $\leq \phi 19$



备注1: 机身尺寸随安装电机的不同而有所差异。

备注2: 电机轴径与输入轴径不同时, 可插入轴套。

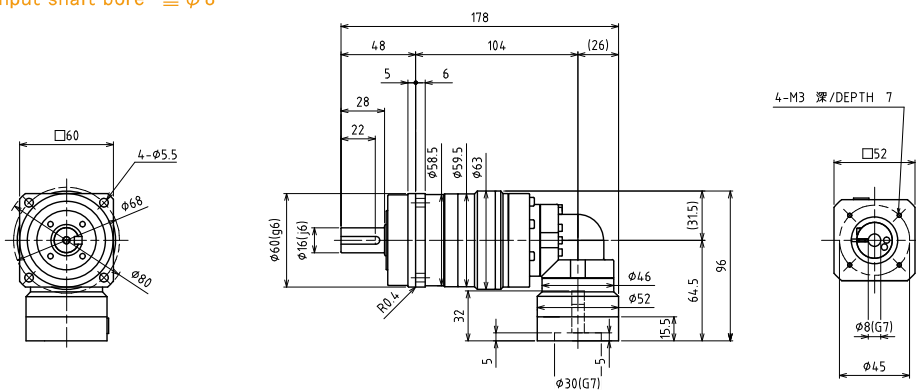
Note1: Body Size Length will vary depending on motor.

Note2: Bushing will be inserted to adapt to motor shaft.

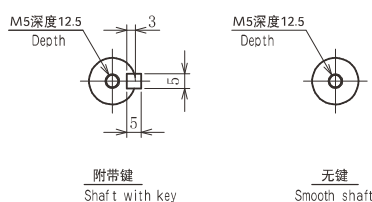
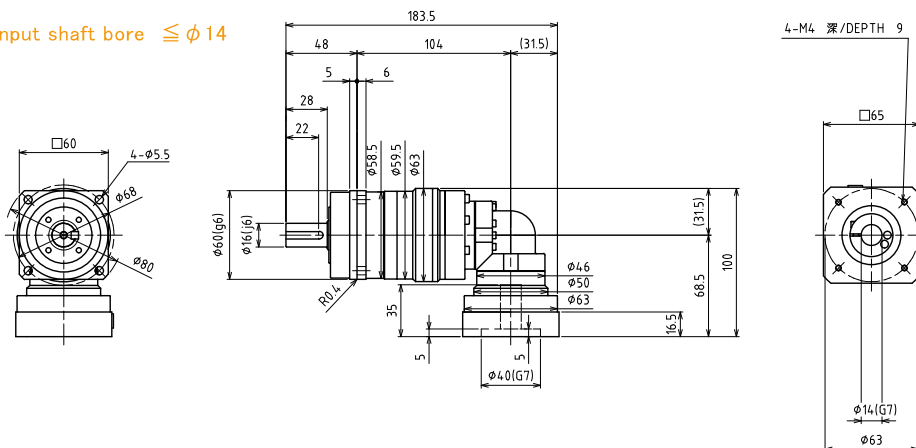


ASR-060 3级 3stage

输入轴内径 Input shaft bore  $\leq \phi 8$



输入轴内径 Input shaft bore  $\leq \phi 14$



备注1: 机身尺寸随安装电机的不同而有所差异。

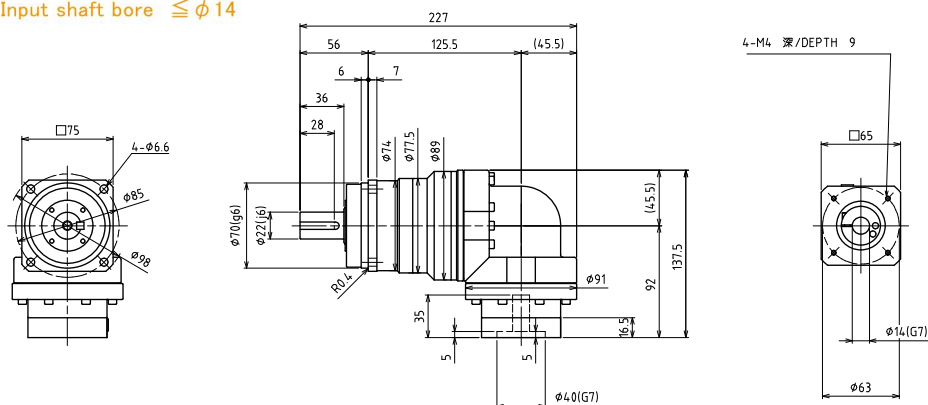
备注2: 电机轴径与输入轴径不同时, 可插入轴套。

Note1: Body Size Length will vary depending on motor.

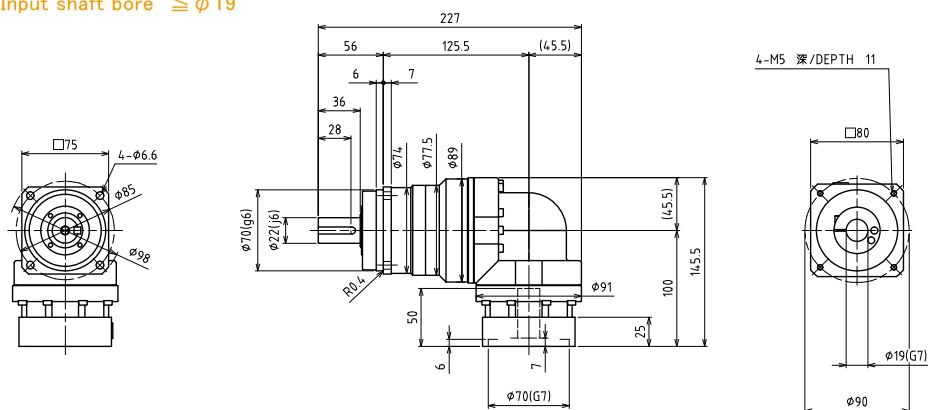
Note2: Bushing will be inserted to adapt to motor shaft.

### ASR-075 2级 2stage

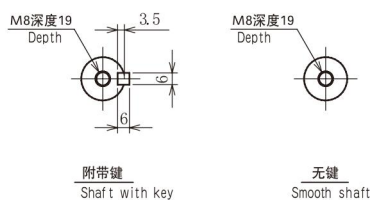
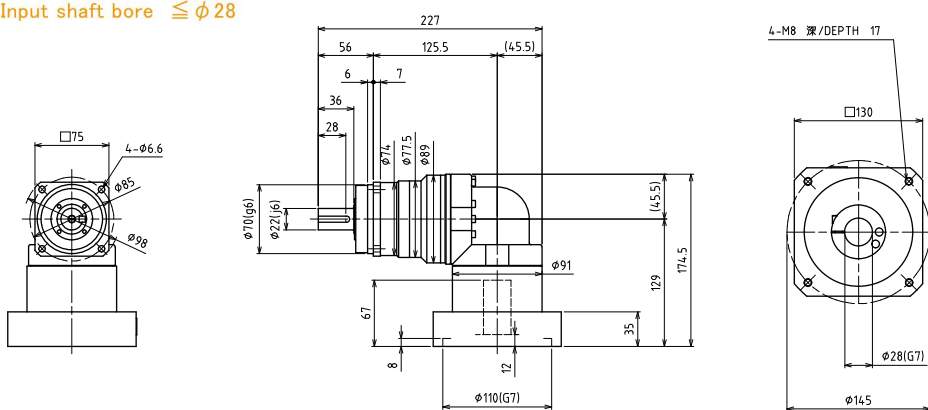
输入轴内径 Input shaft bore  $\leq \phi 14$



输入轴内径 Input shaft bore  $\leq \phi 19$



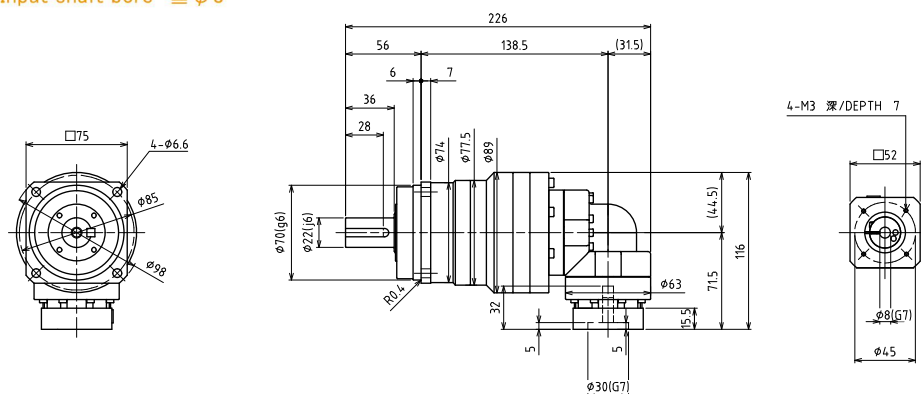
输入轴内径 Input shaft bore  $\leq \phi 28$



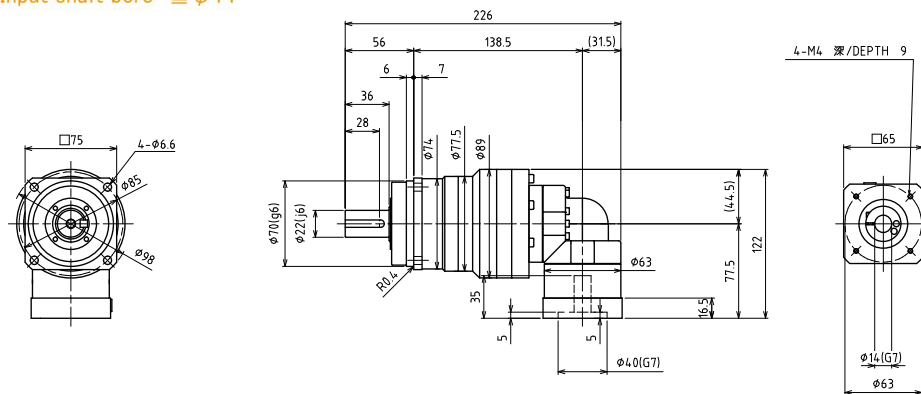
备注1: 机身尺寸随安装电机的不同而有所差异。  
备注2: 电机轴径与输入轴径不同时, 可插入轴套。  
Note1: Body Size Length will vary depending on motor.  
Note2: Bushing will be inserted to adapt to motor shaft.

### ASR-075 3级 3stage

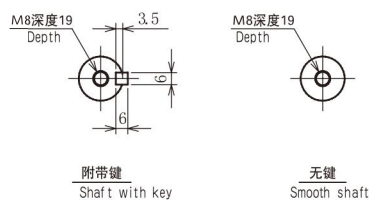
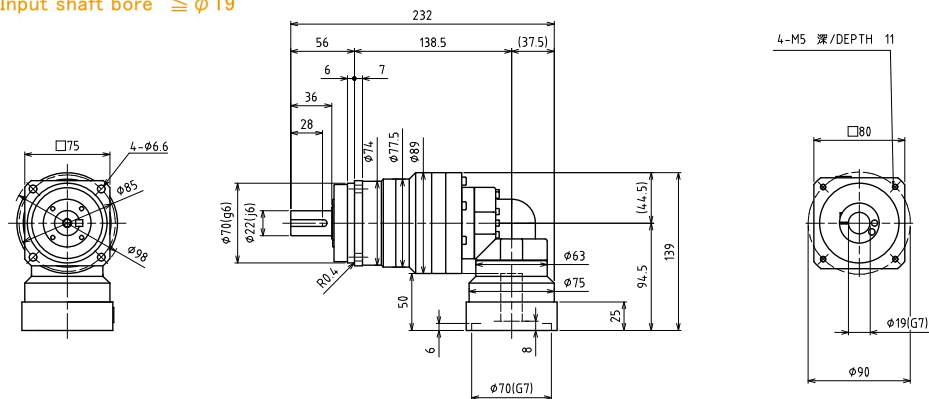
输入轴内径 Input shaft bore  $\leq \phi 8$



输入轴内径 Input shaft bore  $\leq \phi 14$



输入轴内径 Input shaft bore  $\leq \phi 19$

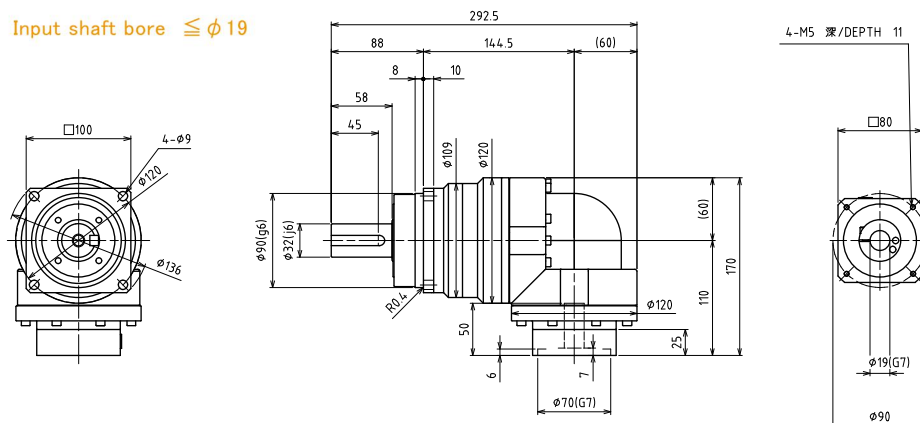


备注1: 机身尺寸随安装电机的不同而有所差异。  
备注2: 电机轴径与输入轴径不同时, 可插入轴套。  
Note1: Body Size Length will vary depending on motor.  
Note2: Bushing will be inserted to adapt to motor shaft.

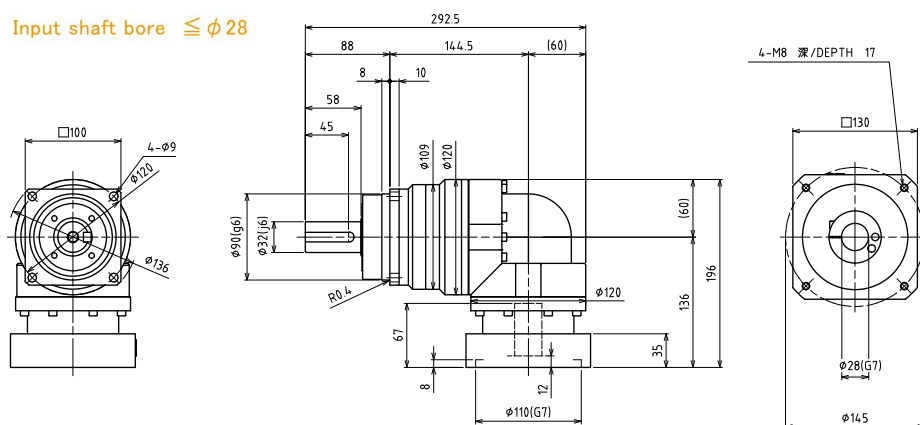


### ASR-100 2级 2stage

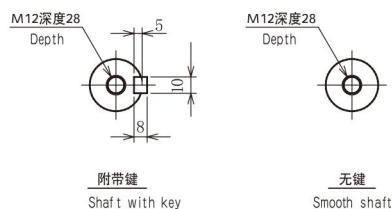
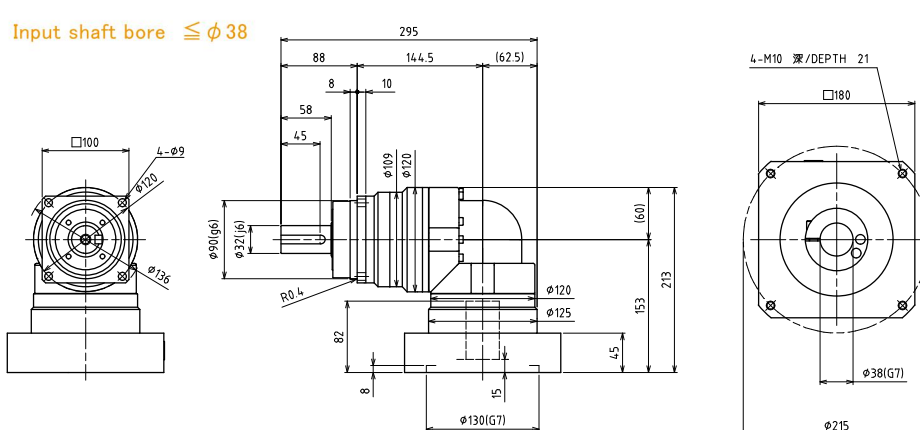
输入轴内径 Input shaft bore  $\leq \phi 19$



输入轴内径 Input shaft bore  $\leq \phi 28$



输入轴内径 Input shaft bore  $\leq \phi 38$



备注1: 机身尺寸随安装电机的不同而有所差异。

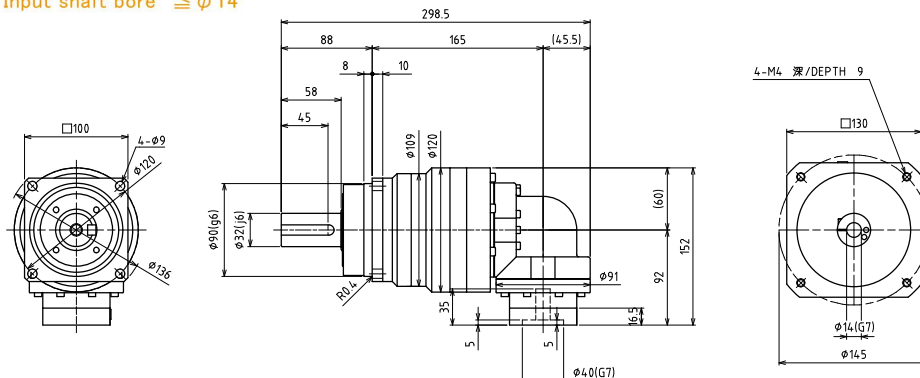
备注2: 电机轴径与输入轴径不同时, 可插入轴套。

Note1: Body Size Length will vary depending on motor.

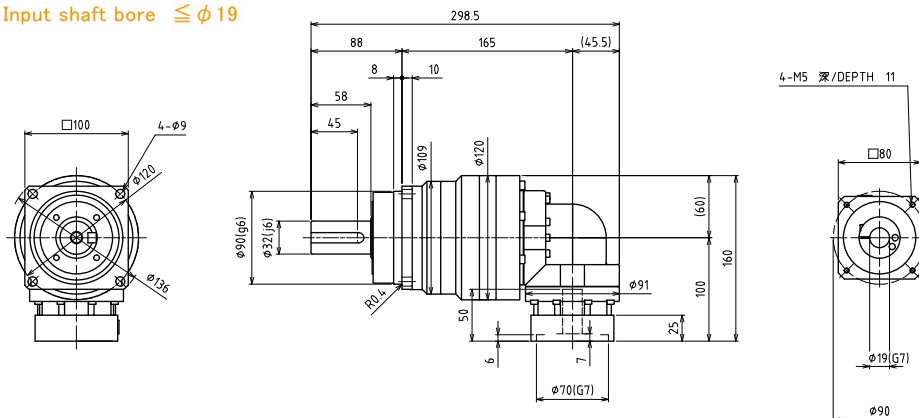
Note2: Bushing will be inserted to adapt to motor shaft.

ASR-100 3级 3stage

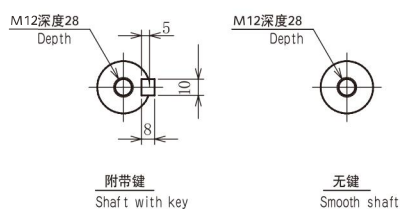
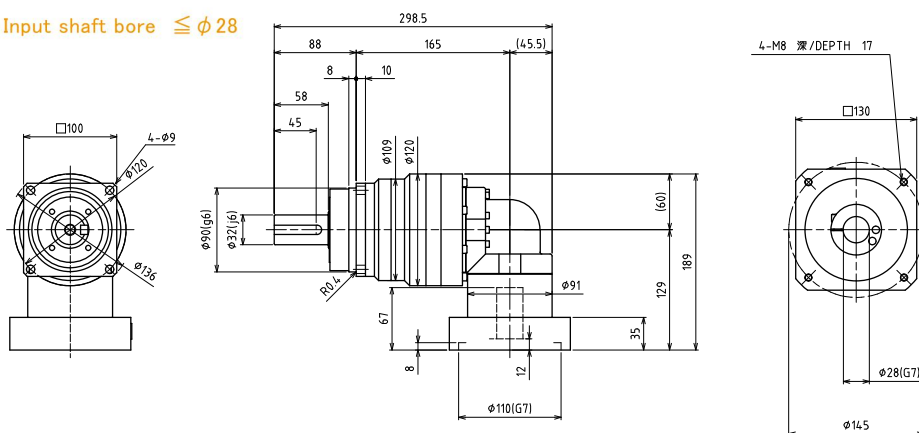
输入轴内径 Input shaft bore  $\leq \phi 14$



输入轴内径 Input shaft bore  $\leq \phi 19$



输入轴内径 Input shaft bore  $\leq \phi 28$



备注1: 机身尺寸随安装电机的不同而有所差异。

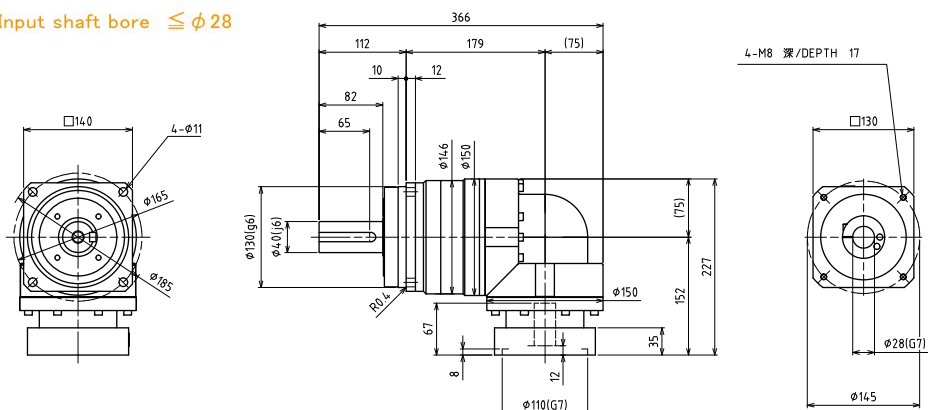
备注2: 电机轴径与输入轴径不同时, 可插入轴套。

Note1: Body Size Length will vary depending on motor.

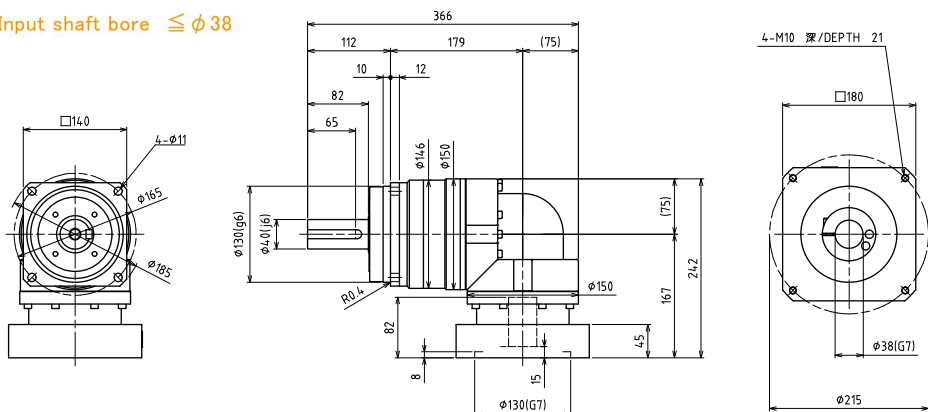
Note2: Bushing will be inserted to adapt to motor shaft.

### ASR-140 2级 2stage

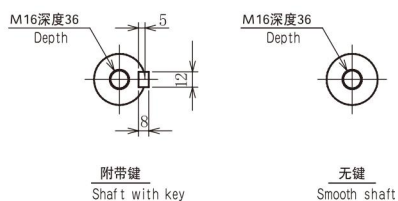
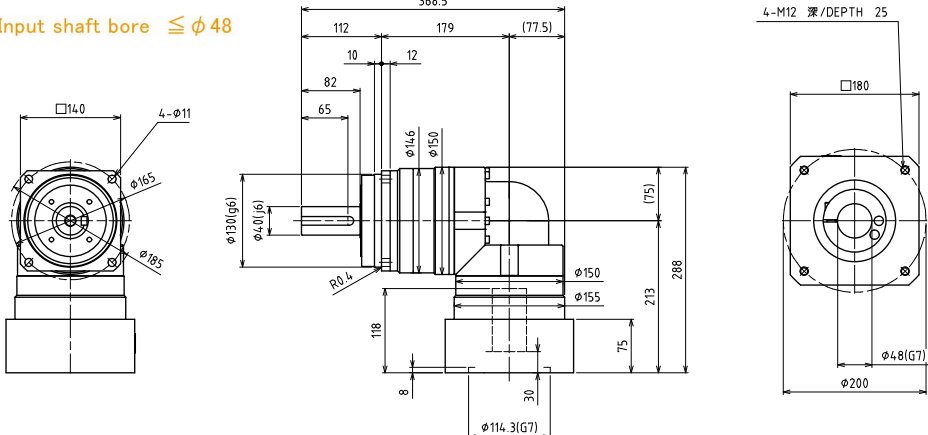
输入轴内径 Input shaft bore  $\leq \phi 28$



输入轴内径 Input shaft bore  $\leq \phi 38$



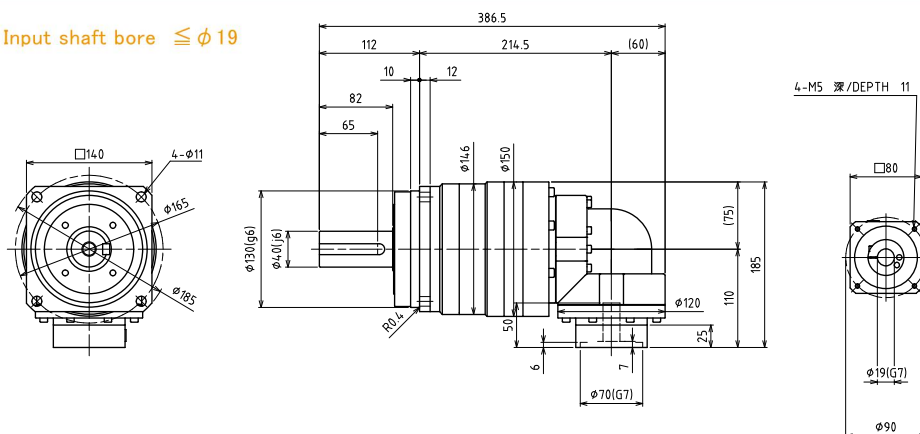
输入轴内径 Input shaft bore  $\leq \phi 48$



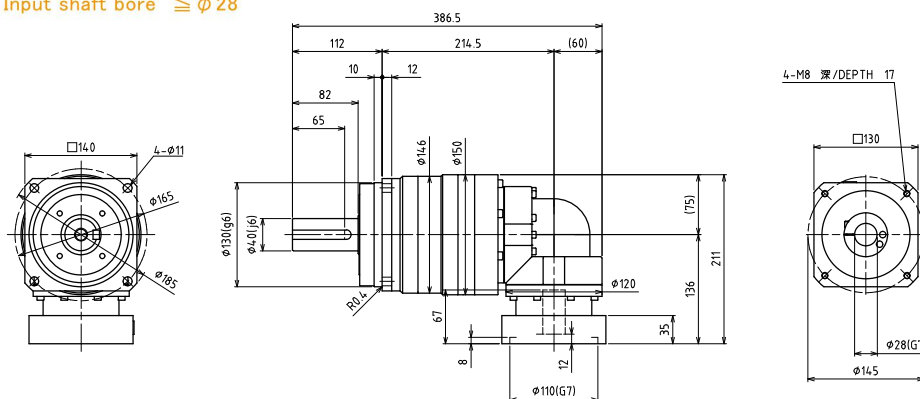
备注1: 机身尺寸随安装电机的不同而有所差异。  
备注2: 电机轴径与输入轴径不同时, 可插入轴套。  
Note1: Body Size Length will vary depending on motor.  
Note2: Bushing will be inserted to adapt to motor shaft.

### ASR-140 3级 3stage

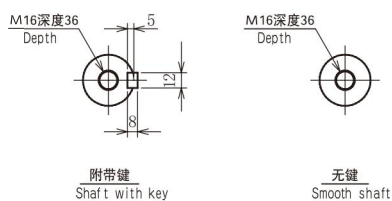
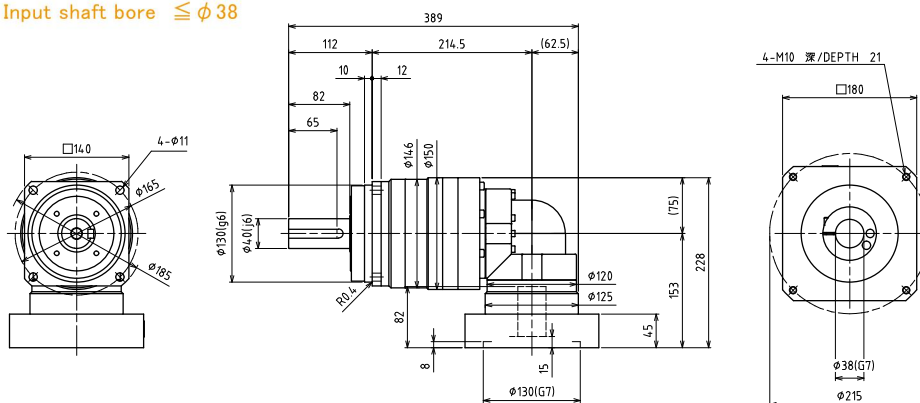
输入轴内径 Input shaft bore  $\leq \phi 19$



输入轴内径 Input shaft bore  $\leq \phi 28$



输入轴内径 Input shaft bore  $\leq \phi 38$



备注1: 机身尺寸随安装电机的不同而有所差异。

备注2: 电机轴径与输入轴径不同时, 可插入轴套。

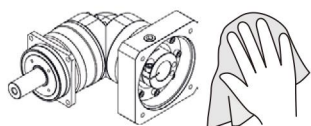
Note1: Body Size Length will vary depending on motor.

Note2: Bushing will be inserted to adapt to motor shaft.

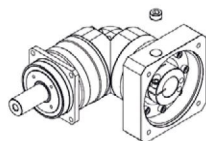


### 1 电机安装步骤 Mounting procedure to the motor

- 1 擦拭电机轴上的防锈剂、润滑脂等。  
Wipe off anti-rust agent and oil on the motor shaft.

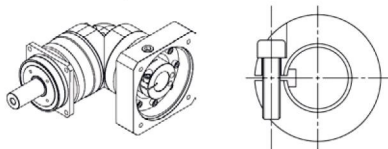


- 2 取下堵头。  
Remove the plug.

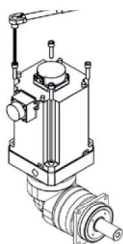


- 3 旋转输入轴使紧固螺栓的头对准塞孔。此时，请确认紧固螺栓是松动的。  
Turn the input shaft until the cap screw is seen. Make sure the cap screw is loosened.

如带有轴套，安装方法如图所示。  
In case the bushing has been attached, Please fix it to the reducer as the drawing below.



- 4 将减速机垂直放置在平坦的地方，使减速机的电机安装面朝上侧。将电机轴慢慢地插入输入轴，注意避免撞击到输入轴，请确认电机的法兰面紧靠减速机的法兰面。按指定的紧固扭矩拧紧电机安装螺栓。（参考表1）  
Please place reducer vertically on the flat surface so the motor mounting part faces up. Carefully insert the motor shaft into the input shaft. (It should be inserted smoothly) Make sure the motor flange is perfectly fit to the reducer's flange. Tighten the motor installing bolts to the proper torque.(See table1)



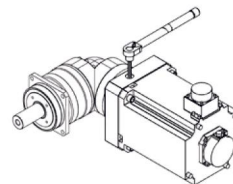
### 2 减速机的安装

要将减速机安装到设备上时，请先确认安装面平坦且没有毛边等，然后使用扭矩扳手等按照指定的紧固扭矩拧紧螺栓。（参考表2）

#### Reducer installation

After confirming the installation surface is flat and clean, tighten the bolt using a torque wrench to the proper torque.(See table2)

- 5 使用扭矩扳手等按照指定的紧固扭矩拧紧紧固螺栓。（参考表1）  
Tighten the clamping bolt of the input shaft with torque wrench to the proper torque.(See table1)



- 6 安装堵头，安装完成。  
Reinstall the plug. The procedure is done.

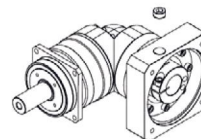


表1 Table 1

| 螺栓<br>尺寸<br>Bolt size | 电机安装螺栓<br>Motor installing bolts |      | 紧固螺栓<br>Clamping bolt |      |
|-----------------------|----------------------------------|------|-----------------------|------|
|                       | Nm                               | kgfm | Nm                    | kgfm |
| M3                    | 1.1                              | 0.11 | 1.9                   | 0.18 |
| M4                    | 2.5                              | 0.26 | 4.3                   | 0.44 |
| M5                    | 5.1                              | 0.52 | 8.7                   | 0.89 |
| M6                    | 8.7                              | 0.89 | 15                    | 1.5  |
| M8                    | 21                               | 2.1  | 36                    | 3.7  |
| M10                   | 42                               | 4.3  | 71                    | 7.2  |
| M12                   | 72                               | 7.3  | 125                   | 13   |
| M16                   | 134                              | 14   | —                     | —    |

表2 Table 2

| 螺栓<br>尺寸<br>Bolt size | 紧固扭矩<br>Tightening torque |      |
|-----------------------|---------------------------|------|
|                       | Nm                        | kgfm |
| M3                    | 1.9                       | 0.18 |
| M4                    | 4.3                       | 0.44 |
| M5                    | 8.7                       | 0.89 |
| M6                    | 15                        | 1.5  |
| M8                    | 36                        | 3.7  |
| M10                   | 71                        | 7.2  |
| M12                   | 125                       | 13   |
| M16                   | 310                       | 32   |
| M20                   | 603                       | 62   |

◎推荐螺栓：强度12.9以上

◎Recommended bolt: Strength 12.9