

## How to read the product name

**YKDR 30 A1 - A1 70**

①      ②      ③      ④      ⑤

|   |                                                                                    |
|---|------------------------------------------------------------------------------------|
| ① | YKDR Series                                                                        |
| ② | Specification: 30mm                                                                |
| ③ | A-axis motor: A1: integrated open-loop stepper A3: integrated absolute closed-loop |
| ④ | B-axis motor: A1: integrated open-loop stepper A3: integrated absolute closed-loop |
| ⑤ | Arm length: 70mm                                                                   |

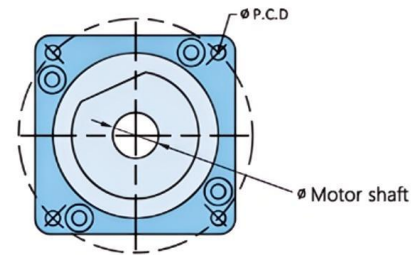
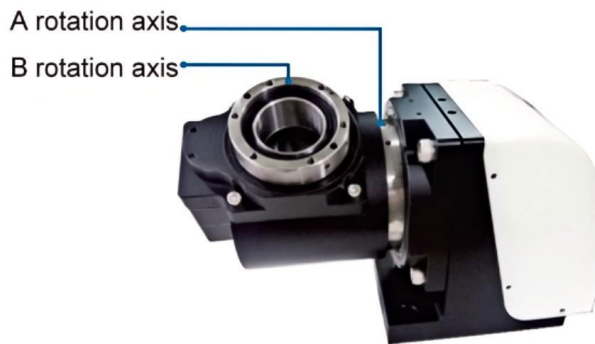
## Specification

- New solutions for 3D applications & new options for curved surface motion. One axial rotation is an arc movement, and two axial rotations are a spherical rotation. This is polar coordinate motion. It has the motion mode of Robot. YKDR is a product developed based on this.

| Model/Specification           |        | YKDR 30               |
|-------------------------------|--------|-----------------------|
| Permissible torque            | N·m    | 5                     |
| Permissible load              | kg     | 3                     |
| Rotation angle                | A axis | ±180°                 |
|                               | B axis | 360°                  |
| Rotation accuracy             | A axis | 1arc-min              |
|                               | B axis | 1arc-min              |
| Repeat accuracy               | A axis | 10arc-sec             |
|                               | B axis | 10arc-sec             |
| Maximum rotation radius       | mm     | 77                    |
| Two-dimensional concentricity | mm     | ±0.02                 |
| Two-dimensional parallelism   | mm     | ±0.02                 |
| Disk rotation amplitude       |        | ±0.005                |
| Reduction ratio i             | A axis | 1:18                  |
|                               | B axis | 1:10                  |
| Allowable rotation speed      |        | 1080°/sec             |
| Protection level              |        | 1:40                  |
| Motor                         | A axis | 42 type stepper motor |
|                               | B axis | 42 type stepper motor |
| Mass                          | kg     | 3                     |

\*For photoelectric switch accessories and details, please contact us

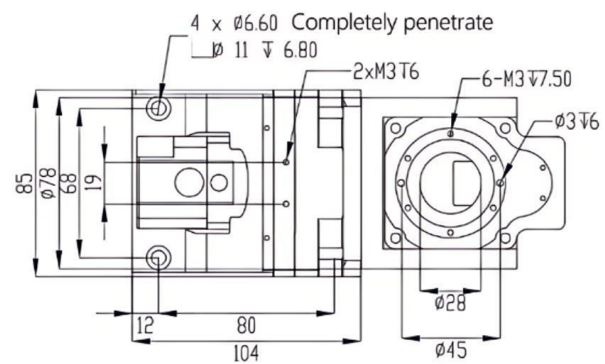
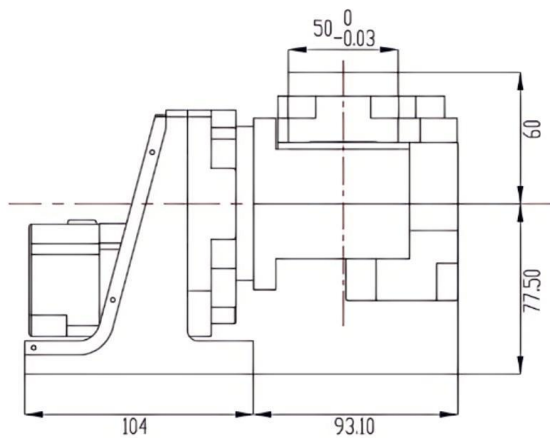
## Product Structure Diagram



Motor flange marking diagram

## Mechanical Dimensions (Unit: mm)

### YKDR 30



## YKDR 40 V1 T1 - 100

① ② ③ ④ ⑤

|   |                                                                                                                                                |
|---|------------------------------------------------------------------------------------------------------------------------------------------------|
| ① | YKDR Series                                                                                                                                    |
| ② | Specification: 40mm                                                                                                                            |
| ③ | A-axis motor: 200~400W servo motor : V1: $\phi 14$ -PCD70-M4    V2: $\phi 11$ -PCD70-M4<br>T1: $\phi 8$ -PCD66.67-M4    T2: $\phi 8$ -PCD70-M4 |
| ④ | B-axis motor : $\phi 8$ -PCD45-M3    V2: $\phi 8$ -PCD46-M4<br>A1: Integrated open loop stepper    T1: 42 stepper                              |
| ⑤ | Arm length: 100mm                                                                                                                              |

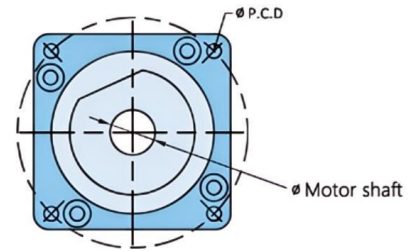
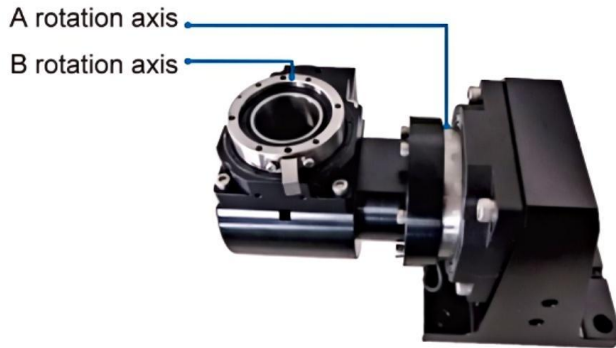
## Specification

New solutions for 3D applications & new options for curved surface motion. One axial rotation is an arc movement, and two axial rotations are a spherical rotation. This is polar coordinate motion. It has the motion mode of Robot. YKDR is a product developed based on this.

| Model/Specification           |        | YKDR 40                                      |
|-------------------------------|--------|----------------------------------------------|
| Permissible torque            | N · m  | 6                                            |
| Permissible load              | kg     | 3                                            |
| Rotation angle                | A axis | $\pm 180^\circ$                              |
|                               | B axis | $360^\circ$                                  |
| Rotation accuracy             | A axis | 1arc-min                                     |
|                               | B axis | 1arc-min                                     |
| Repeat accuracy               | A axis | 10arc-sec                                    |
|                               | B axis | 10arc-sec                                    |
| Maximum rotation radius       | mm     | 90                                           |
| Two-dimensional concentricity | mm     | $\pm 0.02$                                   |
| Two-dimensional parallelism   | mm     | $\pm 0.02$                                   |
| Disk rotation amplitude       |        | $\pm 0.005$                                  |
| Reduction ratio i             | A axis | 1:10                                         |
|                               | B axis | Stepper Motor 1:10                           |
| Allowable rotation speed      |        | 1080°/sec                                    |
| Protection level              |        | 1:40                                         |
| Motor                         | A axis | 56/60 stepper motor or 200W~400W servo motor |
|                               | B axis | 42 stepper motor or 100W servo motor         |
| Mass                          | kg     | 4.5                                          |

\*For photoelectric switch accessories and details, please contact us

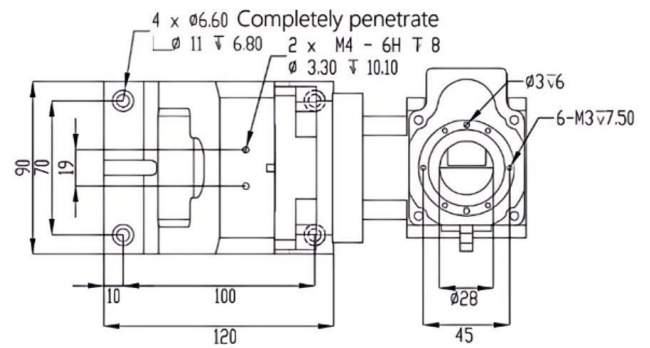
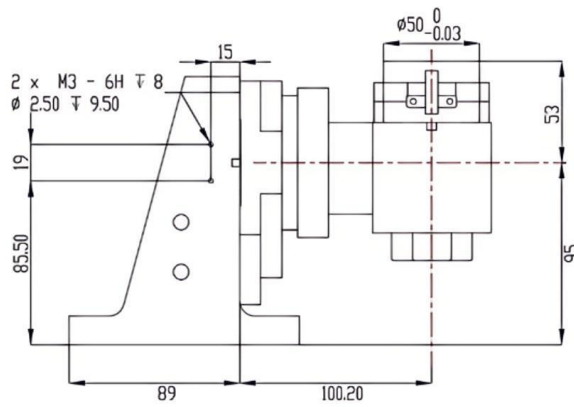
## Product Structure Diagram



Motor flange marking diagram

## Mechanical Dimensions (Unit: mm)

● YKDR 40□□-100



## YKDR 65 V1 T1 - 100

① ② ③ ④ ⑤

|   |                                                                                                         |
|---|---------------------------------------------------------------------------------------------------------|
| ① | YKDR Series                                                                                             |
| ② | Specification: 65mm                                                                                     |
| ③ | A-axis motor: 200~400W servo motor :V1:φ14-PCD70-M4 V3:φ11-PCD70-M4<br>T1:φ8-PCD66.67-M4 T2:φ8-PCD70-M4 |
| ④ | B-axis motor: V1:φ8-PCD45-M3 V2:φ8-PCD46-M4<br>T1: 42 step                                              |
| ⑤ | Arm length: 100mm                                                                                       |

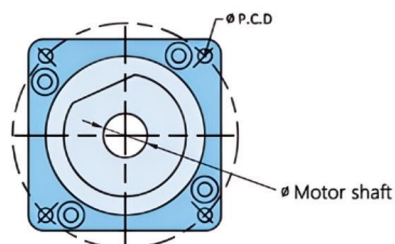
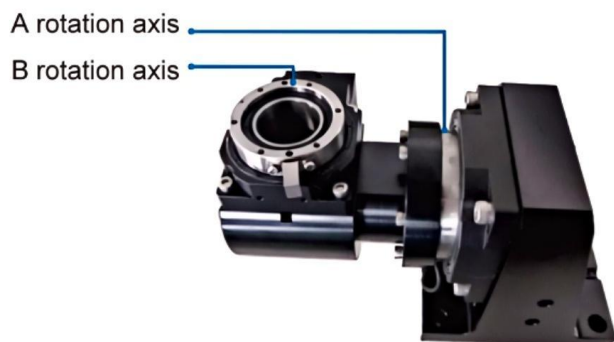
## Specification

- New solutions for 3D applications & new options for curved surface motion. One axial rotation is an arc movement, and two axial rotations are a spherical rotation. This is polar coordinate motion. It has the motion mode of Robot. YKDR is a product developed based on this.

| Model/Specification           |        | YKDR 65                                      |
|-------------------------------|--------|----------------------------------------------|
| Permissible torque            | N·m    | 6                                            |
| Permissible load              | kg     | 3                                            |
| Rotation angle                | A axis | ±180°                                        |
|                               | B axis | 360°                                         |
| Rotation accuracy             | A axis | 1arc-min                                     |
|                               | B axis | 1arc-min                                     |
| Repeat accuracy               | A axis | 10arc-sec                                    |
|                               | B axis | 10arc-sec                                    |
| Maximum rotation radius       | mm     | 150                                          |
| Two-dimensional concentricity | mm     | ±0.02                                        |
| Two-dimensional parallelism   | mm     | ±0.02                                        |
| Disk rotation amplitude       |        | ±0.005                                       |
| Reduction ratio i             | A axis | 1:10                                         |
|                               | B axis | Stepper Motor 1:10                           |
| Allowable rotation speed      |        | 1080°/sec                                    |
| Protection level              |        | 1:40                                         |
| Motor                         | A axis | 56/60 stepper motor or 200W~400W servo motor |
|                               | B axis | 42 stepper motor or 100W servo motor         |
| Mass                          | kg     | 5.5                                          |

\*For photoelectric switch accessories and details, please contact us

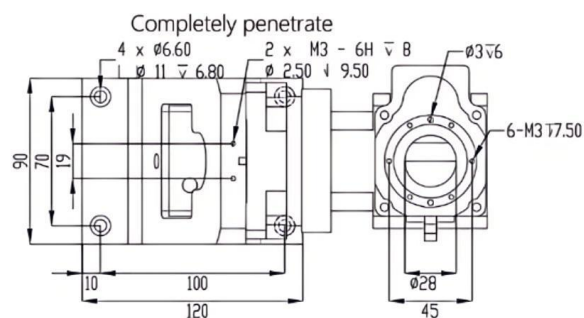
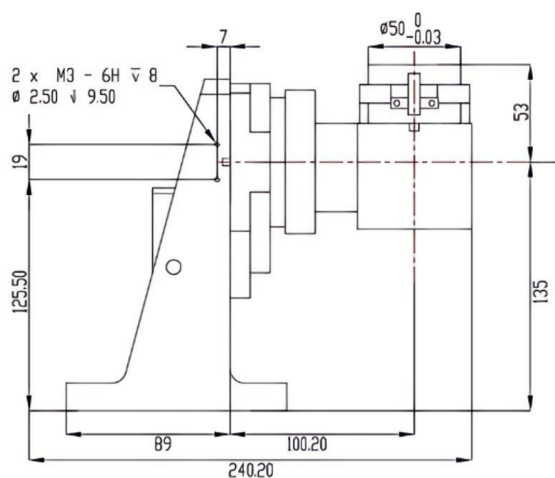
## Product Structure Diagram



Motor flange marking diagram

## Mechanical Dimensions (Unit: mm)

### YKDR 65□□-100



### YKDR 65□□-120

