

Roibot BA-II series offer a wide range of configurations, from single-axis to multiple-Cartesian axes (2 to 4-axes), for incorporation to various manufacturing lines.  
The most suitable construction of robot system is possible for the machine you design.

## 【Single-axis specifications】

## 【Advantages】

- Fast Cycle Time <Maximum Speed>
- High-accuracy <Positioning repeatability>
- Absolute position for all
- High-performance CPU
- Rich variations
- Ball-screw-driven : 1200mm/s
- Timing-belt-driven 2000mm/s
- Ball-screw-driven : +/- 0.01mm
- Timing-belt-driven +/- 0.05mm
- All axis models are equipped with absolute position detector, not requiring the home-position return.
- The controller is equipped with high-speed CPU to realize high level processing capability
- Axis designs have 9 types of ball-screw-driven and 7 types of timing-belt type
- Motor-mounting positions are selectable from 4 directions

**BA2-05 (Ball-screw Driven)**  
Compact, High-Precision

- Motor Power (W) . . . . . 50
- Stroke (mm) . . . . . 50~500
- Maximum payload (kg) for horizontal position . . . . . 6~15
- Maximum speed (mm/s) . . . . . 800 (stroke 400mm or smaller)
- Positioning repeatability (mm) . . . . . ±0.02

\* Load mass and speed vary depending on lead and stroke

**BA2-07 (Ball-screw Driven)**  
Compact, High-Precision

- Motor Power (W) . . . . . 50
- Stroke (mm) . . . . . 50~600
- Maximum payload (kg) for horizontal position . . . . . 12~30
- Maximum speed (mm/s) . . . . . 800 (stroke 400mm or smaller)
- Positioning repeatability (mm) . . . . . ±0.02

\* Load mass and speed vary depending on lead and stroke

**BA2-10 (Ball-screw Driven)**  
Middle-Load, High-Speed

- Motor Power (W) . . . . . 100
- Stroke (mm) . . . . . 100~1050
- Maximum payload (kg) for horizontal position . . . . . 15~50
- Maximum speed (mm/s) . . . . . 1200 (stroke 650mm or smaller)
- Positioning repeatability (mm) . . . . . ±0.01

\* Load mass and speed vary depending on lead and stroke

**BA2-10 (Belt Driven)**  
Middle-Load, High-Speed

- Motor Power (W) . . . . . 100,200
- Stroke (mm) . . . . . 100~1850
- Maximum payload (kg) for horizontal position . . . . . 10~20
- Maximum speed (mm/s) . . . . . 2000
- Positioning repeatability (mm) . . . . . ±0.05

\* Load mass and speed vary depending on lead and stroke

**BA2-30 (Ball-screw Driven)**  
Middle-load, High-Rigidity, High-Precision

- Motor Power (W) . . . . . 100,200
- Stroke (mm) . . . . . 100~1050
- Maximum payload (kg) for horizontal position . . . . . 20~80
- Maximum speed (mm/s) . . . . . 1200 (stroke 650mm or smaller)
- Positioning repeatability (mm) . . . . . ±0.01

\* Load mass and speed vary depending on lead and stroke

**BA2-30 (Belt Driven)**  
Middle-load, High-Rigidity, High-Precision

- Motor Power (W) . . . . . 100,200
- Stroke (mm) . . . . . 100~2500
- Maximum payload (kg) for horizontal position . . . . . 15~40
- Maximum speed (mm/s) . . . . . 2000
- Positioning repeatability (mm) . . . . . ±0.05

\* Load mass and speed vary depending on lead and stroke

**BA2-50 (Ball-screw Driven)**  
Middle-load, High-Rigidity, High-Precision

- Motor Power (W) . . . . . 200,400
- Stroke (mm) . . . . . 200~1500
- Maximum payload (kg) for horizontal position . . . . . 60~150
- Maximum speed (mm/s) . . . . . 1200 (stroke 600mm or smaller)
- Positioning repeatability (mm) . . . . . ±0.01

\* Load mass and speed vary depending on lead and stroke

**BA2-50 (Belt Driven)**  
Middle-load, High-Rigidity, High-Precision

- Motor Power (W) . . . . . 200,400
- Stroke (mm) . . . . . 200~2500
- Maximum payload (kg) for horizontal position . . . . . 20~40
- Maximum speed (mm/s) . . . . . 2000
- Positioning repeatability (mm) . . . . . ±0.05

\* Load mass and speed vary depending on lead and stroke

## Cartesian Axes Specifications Examples

