Controllers

Improved functionalities from the conventional BA-II series controllers

- With the adoption of a new controller designed to high load (capable of 750 W motor capacity) to the end of the robot arm, the processing speed of the controller has improved, enabling faster operation without reducing control accuracy.
- "Flexible Point Specification Mode" refers to the operating mode for performing positioning without using instructions.

Improved functionalities

- "User Friendliness" has been improved, enabling safer and more efficient operation.
- "High Reliability" has been enhanced, ensuring long-term stable operation.

Models

Additional models have been added, including single to four-axis combinations, expanding the operating range of the robots.

Other Optional Units

- With extension I/O Unit
- Regenerative Discharge Unit
- Teach Pendant

Technical specifications

- Maximum load mass: Single axis: Horizontal 250 kg, X-Y two-axis combination: 100 kg
- Maximum stroke: Maximum: 4450 mm
- Maximum speed: Ball screw driven: 1200 mm/s, timing belt driven: 2000 mm/s
- Positioning repeatability: Ball screw driven: 0.01 mm, timing belt driven: 0.04 mm

I/O Type Selection

- N: NPN input/output
- P: PNP input/output

Motor Capacity

- 1: 50 to 200 W
- 4: 400 W
- 8: 750 W

Extension Interface Unit

- X: None
- C: CC-Link Unit
- D: DeviceNet Unit
- B: Extension Input/Output Unit (Input and output are common between NPN and PNP)

Controller features

- With the adoption of oil-free seals in the LM guides and the ball screws, the BA-III series does not require maintenance for an extended period of time.
- Equipped with a compact AC servo motor, the total axial length has been shortened.
- Models with longer effective strokes have been added to expand the operating ranges of the robots.

Controller specifications

- Maximum load mass: Single axis: Horizontal 250 kg, X-Y two-axis combination: 100 kg
- Maximum stroke: Maximum: 4450 mm
- Maximum speed: Ball screw driven: 1200 mm/s, timing belt driven: 2000 mm/s
- Positioning repeatability: Ball screw driven: 0.01 mm, timing belt driven: 0.04 mm

ABSU-2000

ABSU-4000

ABSU-8000 TPH-4C

Regenerative Discharge Unit Teach Pendant

With extension I/O Unit

With CC/LL Unit

ABU-100D ABU-200D

TPH-4C

The BA-III series pursues usability

- ABSU-2000 provides easy operation and maintenance for both high load and high accuracy applications.
- ABSU-4000 and ABSU-8000 provide easy operation for both high load and high cycle time applications.

Absolute encoder in all models

- The BA-III series uses a high-precision absolute encoder on all models to ensure accurate positioning and easy operation.
- The series has been designed to ensure high performance and reliability, offering quick moves and precise positioning.

"External Point Specification Mode" is enhanced. Point table number can be output after positioning is completed.

The Cartesian Coordinate Robot "COMPO ARM" was first released in 1986 featuring "High Reliability" and "User Friendliness". Since its introduction, it has been selected by many customers for its capability in production lines.

Our new product, the BA-III series, combines the features of the BA-II series with improved functionality, especially in "User Friendliness". It offers a wide variety of models ranging from single axis to Cartesian combination axes (2 to 4 axes).

CA25-M10 CA25-M40

CA25-M80

CA25-S10 CA25-S40

CA25-S80

High load

High accuracy

Long stroke

High cycle time

Absolute encoder in all models

"External Point Specification Mode" refers to the operating mode for performing positioning without using instructions.