

MINAS A6BU Series



Application
Highlighted
Sensor Direct

**Displacement
Control**

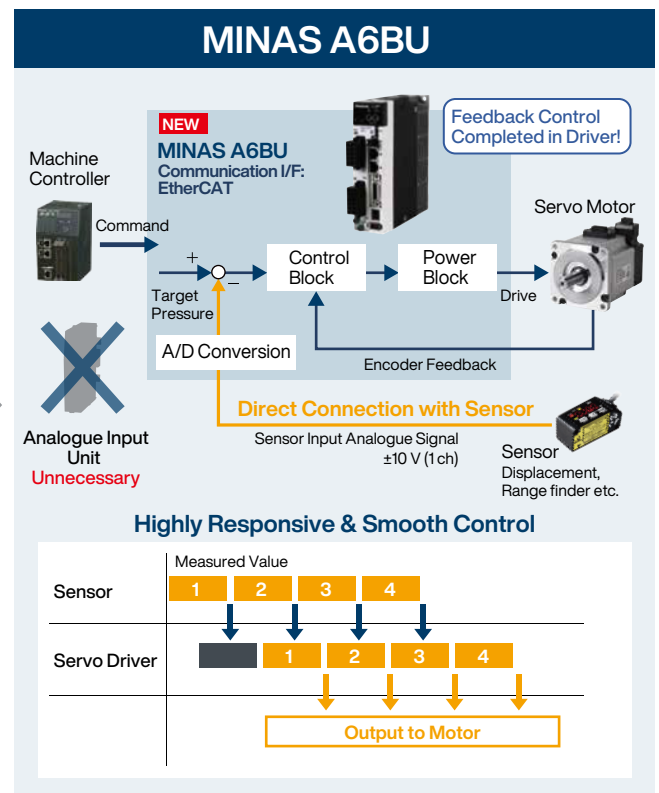
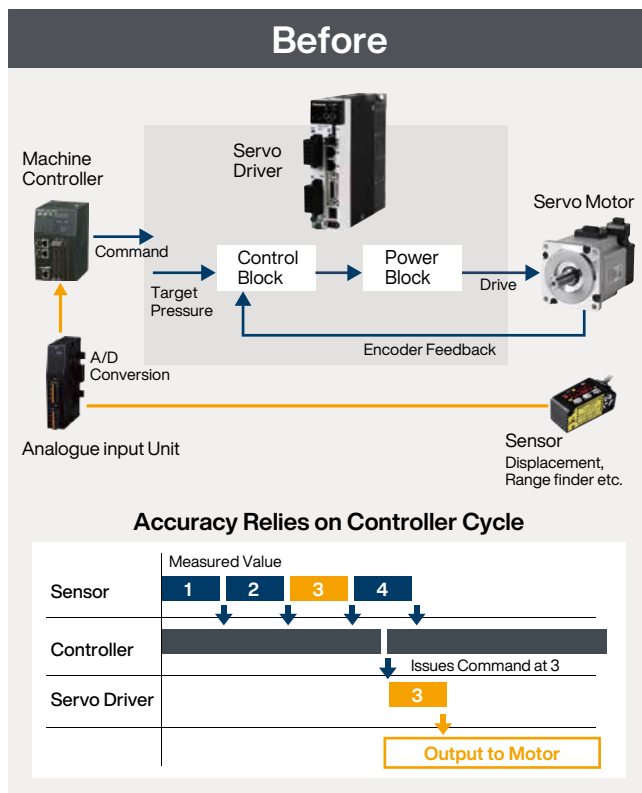
Responsive

Accurate

Simple

Highly Responsive Control by Direct Sensor Input

Simplifies System Configuration & Controller Program

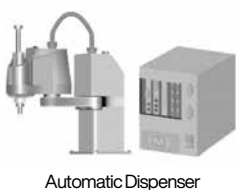


Check! Demo video of displacement control



Application Examples

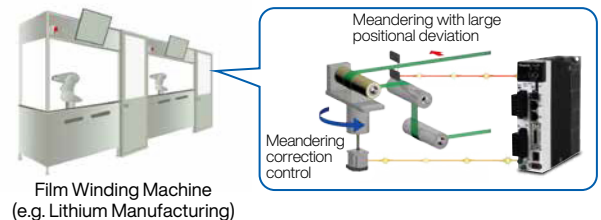
Gap Control



Focus Control



Meandering Control



* EtherCAT is a registered trademark of patented technology licensed from Beckhoff Automation GmbH in Germany.









Product Line-up

Rated output Line-up

| | | Rated output of applicable motor | | |
|--------------------|-------------------------------------|----------------------------------|------------------|------------------|
| | | 50 W~ 400 W | 750 W~ 1.5 kW | 1.8 kW~ 22 kW |
| Input power supply | Single Phase AC100 V~120 V | ● | — | — |
| | Single/Three Phase AC200 V~240 V | ● | ● | — |
| | Three Phase AC200 V~240 V | — | — | ● |

*As for 400V, NOT available in some regions. Please check with each our sales office.

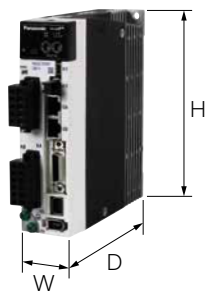
Applicable Motor

| | | | |
|--|---|--|---|
|  MSMF Low Inertia |  MDMF Middle Inertia |  MHMF High Inertia |  MQMF with gear reducer |
|  MQMF Middle Inertia/ Flat Type |  MGMF Middle Inertia/ Low Speed Large Torque |  Motor details | |
| | | |  MHMF with gear reducer |

A6BU Common Specification

| Item | | | Description |
|------------------------|------------|--|--|
| Description | 100 V type | Main circuit power supply | Single-phase 100~120 V 50/60 Hz |
| | | Control circuit power supply | Single-phase 100~120 V 50/60 Hz |
| | 200 V type | Main circuit power supply | A to D-Frame: Single/Three Phase 200~240 V 50/60 Hz E to H-Frame: Three Phase 200~240 V 50/60 Hz |
| | | Control circuit power supply | A to D-Frame: Single-phase 200~240 V 50/60 Hz E to H-Frame: Single-phase 200~240 V 50/60 Hz |
| | | Encoder feedback | 23-bit (8388608 resolution), 7-wire serial absolute encoder |
| | | Control signal | Input: 10 general inputs Output: 6 general outputs |
| Analog signal | Input | 3 inputs (16 bit A/D 1 input, 12 bit A/D 2 inputs) Only 16bit A/D input is supported for pressure sensor input. | |
| | Output | 2 outputs (analog monitor 1, analog monitor 2) | |
| Item | | | Description |
| Pulse signal | Output | 2 outputs | |
| Communication function | EtherCAT | Real-time operation command transmission, parameter setting, status monitoring, etc. | |
| | USB | Connect to a computer for parameter setting or status monitoring, etc. | |
| Control mode | | | Position control: profile position control (pp), cyclic position control (csp), home return position control (hm) Velocity control: profile velocity control (pv), cyclic velocity control (csv) Torque control: profile torque control (tq), cyclic torque control (cst) * Please use the position correction function by analog input in csp mode. * It is possible to switch between the above control modes using EtherCAT communication commands |

Dimension



*The photo shows the appearance of the A-Frame.
Appearance varies by sizes.
Separately secure space for the mating connector and lead wires.

| Frame | W [mm] | H [mm] () includes mounting hardware | D [mm] () includes the power supply connector and motor connector on the Driver main unit side | Product weight [kg] |
|---------|--------|--|--|--|
| A Frame | 40 | 150 (180) | 130 (150) | Approx. 0.8 |
| B Frame | 55 | 150 (180) | 130 (150) | Approx. 1.0 |
| C Frame | 65 | 150 (180) | 170 (191) | Approx. 1.6 |
| D Frame | 85 | 150 (180) | 170 (191) | Approx. 2.1 |
| E Frame | 85 | 168 (198) | 196.5 (216) | Approx. 2.7 |
| F Frame | 130 | 220 (250) | 219.5 | Approx. 5.2 |
| G Frame | 184 | 220 (257) | 257 | Approx. 8.2 |
| H Frame | 244 | 390 | 222 | Approx. 14.2 (240 A)* 15.2 (360 A)* |

*Maximum current rating.