

MINAS A6BU Series



Application
Highlighted
Sensor Direct

**Displacement
Control**

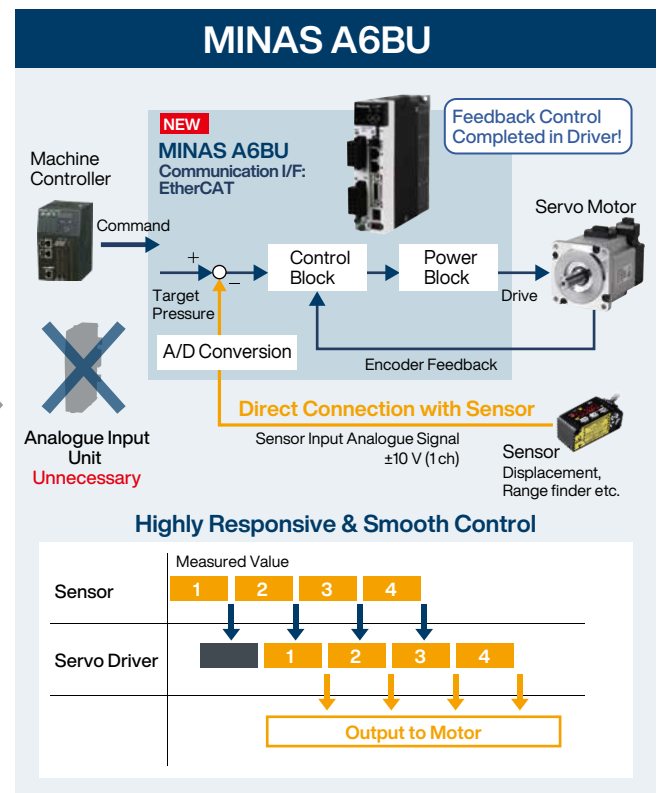
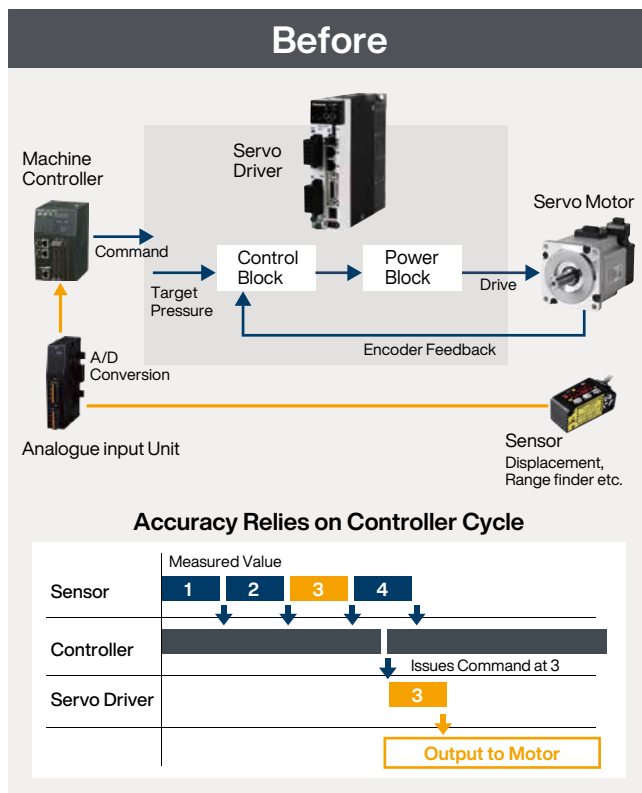
Responsive

Accurate

Simple

Highly Responsive Control by Direct Sensor Input

Simplifies System Configuration & Controller Program

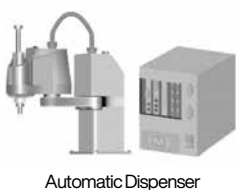


Check! Demo video of displacement control



Application Examples

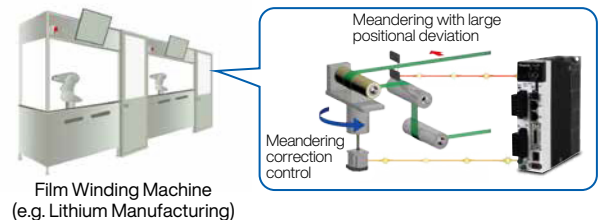
Gap Control



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

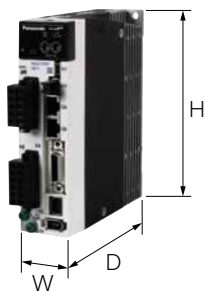


MHMF
with gear reducer

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.