

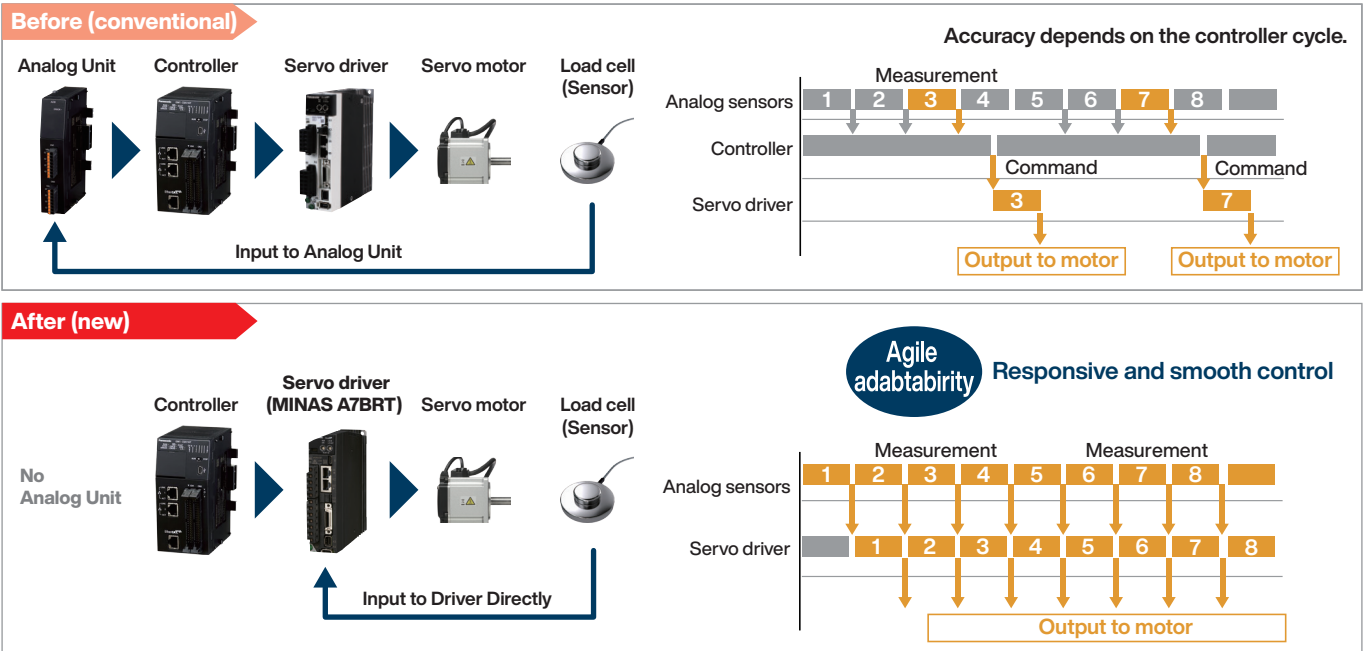
AC Servo driver MINAS A7 Family

Full closed pressure control servo driver MINAS A7BRT (EtherCAT-compatible)

Features

- High responsiveness and high-precision pressure control by direct sensor feedback
- Simplifies hardware configuration & controller programs

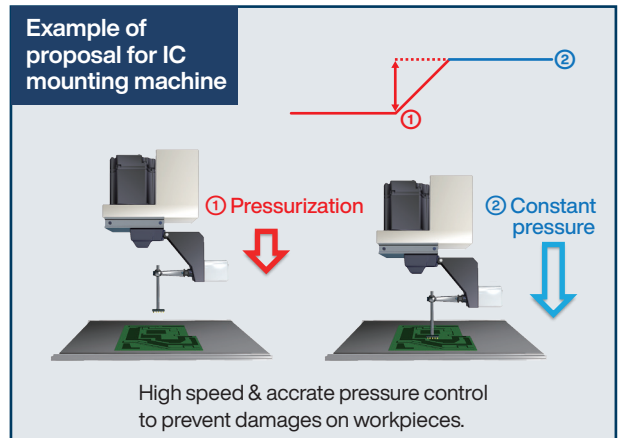
Analog sensor signal directly inputted to the driver achieving smooth and accurate control.



* Applicable motor: Output range 50 W-1.5 kW (As of November 2023)

Application examples

- IC handler
- Bonding machine
- Mounter
- Press-fitting machine
- Copper
- Screw drive machine
- Injection molding machine.




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/Three Phase	●	●	—
	AC200 V - 240 V			


Applicable Motor




MSMG
Low inertia



MDMG
Medium inertia




MGMG
Medium inertia /
Low-speed, high torque



MHMG
High inertia

For details, please visit our website.



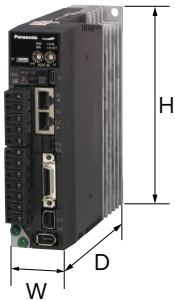
Motor details

A7BRT Common Specification

Item		Description
Description	200 V type	Main circuit power supply Single/ Three Phase 200 - 240 V 50/60 Hz
		Control circuit power supply Single-phase 200 - 240 V 50/60 Hz
Encoder feedback		27 bit (resolution 134,217,728) 7 lines Serial absolute encoder
Control signal	Input	General-purpose 8 inputs Functions are selected by parameters
	Output	General-purpose 3 inputs Functions are selected by parameters
Control signal	Input	1 input (16 bit A / D Input), ±10V
	Output	2 output (Analog monitor 1, Analog monitor 2)
Analog signal	Output	Line driver output switching following parameter • Position compare output (3 output)

Item		Description
Communication Function	EtherCAT	Real-time operation command transmission, parameter setting, status monitoring, etc. are possible
	USB	Connecting a PC allows parameter setting, status monitoring, etc.
Control Mode	Semi-closed Control	Position Control: Profile Position Control (pp), Cyclic Position Control (csp), Homing Position Control (hm) Speed Control: Profile Speed Control (pv), Cyclic Speed Control (csv) Torque control: Profile torque control (tq), Cyclic torque control (cst)
	Full-closed Position Control	Incompatible
	Pressure Control	Full closed type pressure control Pressure control mode (ps)

Dimension



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] () includes the power supply connector and motor connector on the Driver main unit side	Compatible motor output (Reference)
A Frame	40	150 (180)	130 (150)	Approx.0.8 (Approx.0.9)	50 W, 100 W
B Frame	40	150 (180)	150 (170)	Approx.1.0 (Approx.1.1)	200 W, 400 W
C Frame	65	150 (180)	170 (190)	Approx.1.5 (Approx.1.6)	750 W, 1.0 kW
D Frame	85	150 (180)	170 (190)	Approx.1.8 (Approx.1.9)	1.0 kW - 1.5 kW

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

MINAS A7 Family Line-up

*The lineup will be expanded gradually.

SERVO DRIVER

EtherCAT

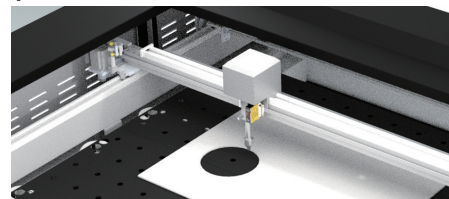


MINAS A7B
series

Standard type	A7BE	Displacement control type	A7BRU
Multifunctional type	A7BF	Pressure control type	A7BRT
Application specialized type	A7BR		

Easily achieve high-precision control with a dedicated driver optimized for the application

Displacement control Direct sensor feedback



Accurate position correction is achieved according to the displacement of the workpiece.

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