Sigma-MD A02

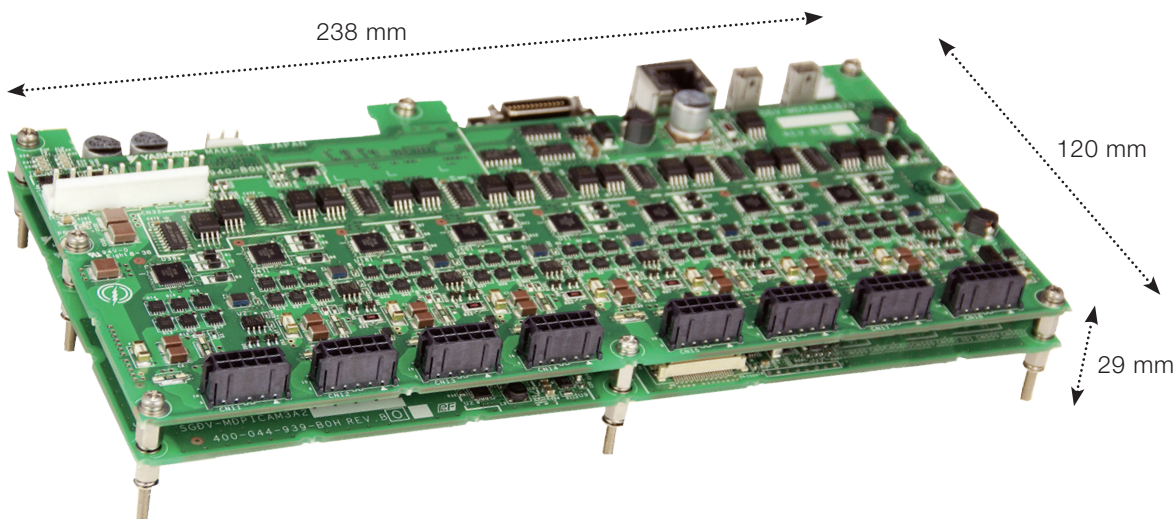**YASKAWA**

SERVOPACK: SGDV-MDA02E8M3A□□ (DC Power Input)
Servomotor: SGMMV

Compact SERVOPACK for Multi-Axis Control

Save space with this compact SERVOPACK that can be incorporated into mobile parts, such as chip mounters.

238 mm

120 mm

29 mm

Features

Compact
• Requires 60% less mounting space*

Light
• Weighs only 335g and can be incorporated into mobile parts of equipment.
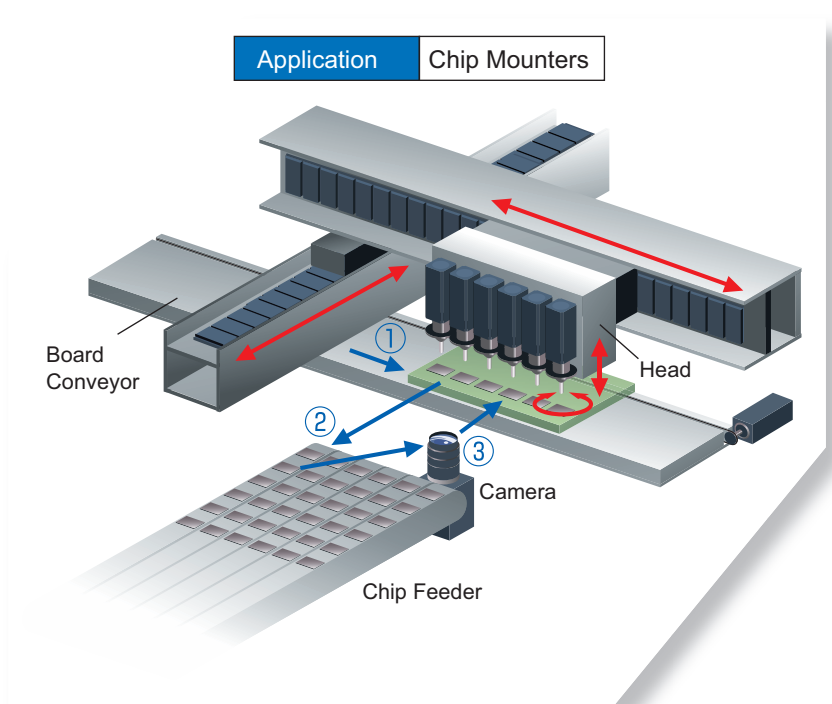
High Control Performance
• Delivers the same control performance as a Sigma-5 SERVOPACK.
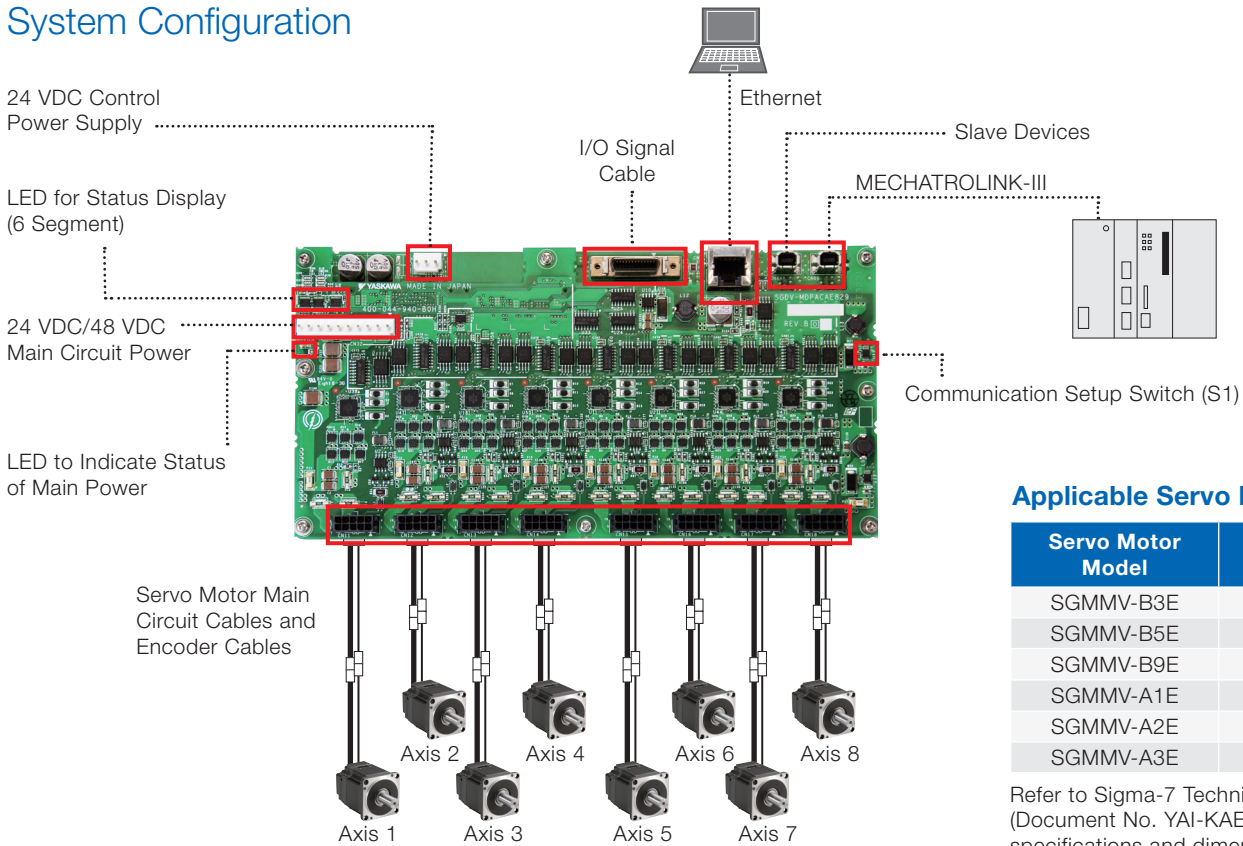
Less Wiring (1/8)
• Features a sharp reduction in the number of power and communication cables*2.
• Reduces mechanical stress on cables and devices

*1: Compared to a configuration of 8 Sigma-5 SERVOPACKS with DC input

*2: Requires the same number of encoder cables and servomotor main circuit cables.

| Application | Chip Mounters |

Board Conveyor

① ② ③

Head

Camera

Chip Feeder

Sigma-MD A02

System Configuration

- 24 VDC Control Power Supply
- Ethernet
- I/O Signal Cable
- Slave Devices
- MECHATROLINK-III
- LED for Status Display (6 Segment)
- 24 VDC/48 VDC Main Circuit Power
- Communication Setup Switch (S1)
- LED to Indicate Status of Main Power
- Servo Motor Main Circuit Cables and Encoder Cables

Axis 1, Axis 2, Axis 3, Axis 4, Axis 5, Axis 6, Axis 7, Axis 8

Applicable Servo Motors

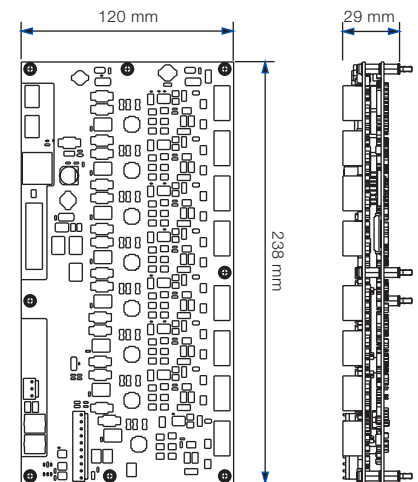| Servo Motor Model	Rated Output
SGMMV-B3E	3.3 W
SGMMV-B5E	5.5 W
SGMMV-B9E	11 W
SGMMV-A1E	10 W
SGMMV-A2E	20 W
SGMMV-A3E	30 W

Refer to Sigma-7 Technical Supplement (Document No. YAI-KAEPS80000123 for specifications and dimensions

Basic Specifications

SERVOPACK Model	SGDV-MDA02E8M3A	SGDV-MDA02E8M3A01
Number of Axes	8 per SERVOPACK	
Interface	MECHATROLINK-III (transmission cycle: 250 µs to 4 ms)	
Input Power Supply	Main circuit: 24 VDC/48 VDC; Control circuit: 24 VDC	
Operating Conditions	Surrounding air temperature: 0°C to +55°C Vibration resistance: 49 m/s² (5G) Shock resistance: 147 m/s² (15G)	
International Standards	CE, KC	
Functions & Control Performance	Equivalent to Sigma-5 SERVOPACKs (does not support the tests without motor function)	
Tools	SigmaWin+ (connected with controller via Ethernet and MECHATROLINK)	
I/O Signals	None	Input: 8 ch; output: 8 ch
Mass	326 g*	335 g*
Size	238 mm × 120 mm × 29 mm	

* Includes the weight of studs and screws used to mount the SERVOPACK.

Dimensions in mm

120 mm | 29 mm | 238 mm

Studs and screws to be prepared by user.

YASKAWA