

HarmonicDrive®

AC Servo Actuator

CollaborationSeries

**Mitsubishi Electric
Corporation**

MITSUBISHI SERVO AMPLIFIERS & MOTORS
**MELSERVO
J4**
SSCNETIII/H
SERVO SYSTEM CONTROLLER NETWORK



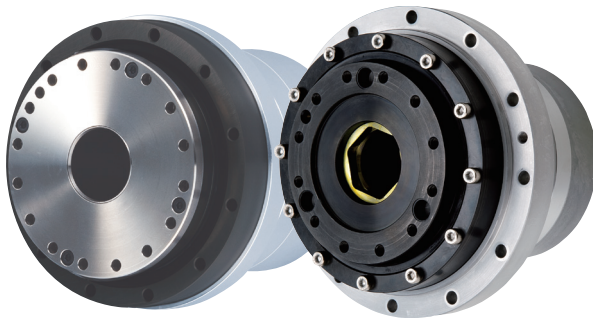
**Panasonic
Corporation**

**MINAS
A6**
RTEX
Realtime Express
EtherCAT®



**YASKAWA Electric
Corporation**

Σ-7
MECHATROLINK



Flat hollow AC servo actuator
SHA series SG/CG type



Flat hollow AC servo motor
MMA/PMA/YMA series



Small flat AC servo actuator
FHA-C mini series



Supermini AC servo actuator
RSF supermini series

Harmonic Drive Systems Inc.

What are the collaboration products?

The collaboration products are AC servo actuator and AC servo motor products that can be connected to servo amplifiers made by leading servo motor manufacturers.

Connecting the product with a servo amplifier made by these manufacturers makes Harmonic Drive Systems' mechatronics products as user-friendly as the servo motors with speed reducers made by the manufacturer.

Outline of the collaboration servo amplifier

Mitsubishi Electric Corporation AC servo amplifier MELSERVO-J4

Servo amplifier supporting SSCNET III/H MR-J4-B-S033/MX940J/RJ920J

This is a servo amplifier supporting the advanced high-speed motion network SSCNET III/H. This product achieves a speed frequency response of 2.5 kHz.



Panasonic Corporation AC servo amplifier MINAS A6

AC servo amplifier MINAS A6N supporting Realtime Express AC servo amplifier MINAS A6B supporting EtherCAT

In addition to the high-speed synchronous communication networks Realtime Express and EtherCAT, the general-purpose communication networks pulse, analog, and Modbus are also selectable.



YASKAWA Electric Corporation AC servo pack Σ -7 series

AC servo pack supporting MECHATROLINK-III SGD7S- ☐☐☐ A20A ☒☒☒ F81

The servo pack that has achieved a speed frequency response of 3.1 kHz and MECHATROLINK-III whose shortest transmission cycle is 125 μ s are usable.

* ☒☒☒ indicates whether there is a dynamic brake resistor or not (without: 000, with: 020).



Image of the device

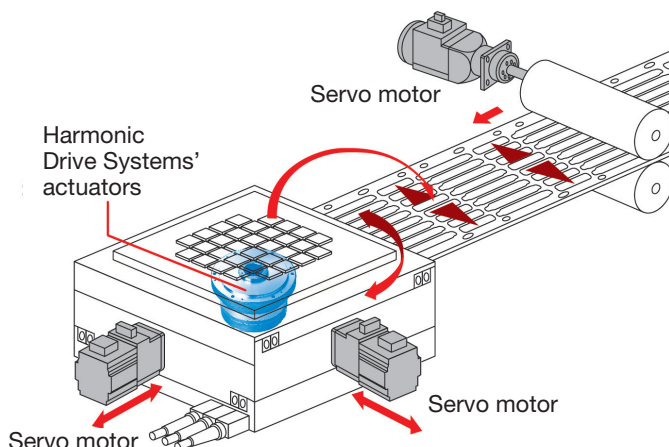
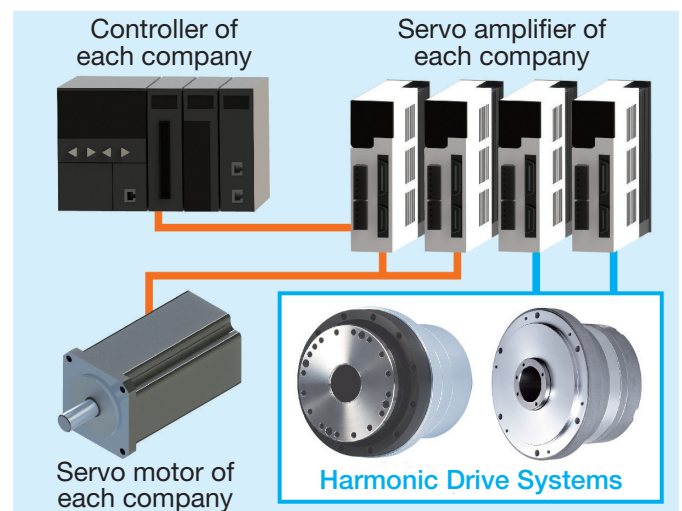


Image of the system



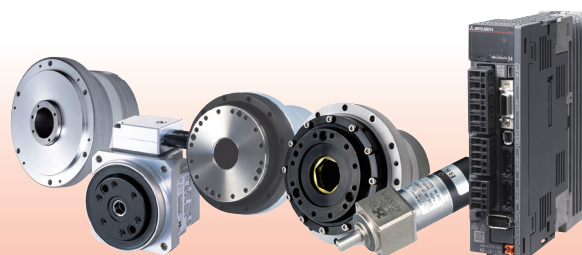
Lineup of collaboration products

Collaboration with each company's servo amplifier is achieved. Furthermore, the options of the connection network increase.



"MELSERVO-J4" SSCNET III/H made by Mitsubishi Electric Corporation is supported.

HarmonicDrive®
AC servo
actuator/
motor + **MELSERVO
J4**



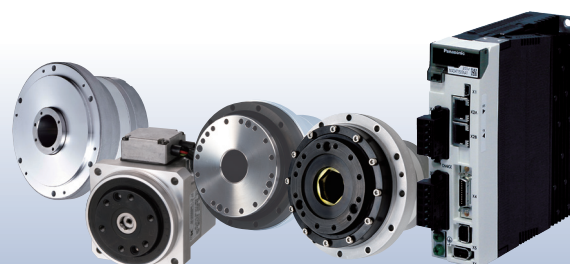
Series	SHA-SG	SHA-CG	FHA-C mini (INC)	RSF supermini (INC)	MMA
Size	25 / 32 / 40 / 58 / 65	25 / 32 / 40	8 / 11 / 14	3 / 5	09 / 12 / 15 / 21A



EtherCAT®

"MINAS A6" RTEX/EtherCAT made by Panasonic Corporation is supported.

HarmonicDrive®
AC servo
actuator/
motor + **MINAS**
A6N (RTEX)
A6B (EtherCAT)
A6S (General communication)

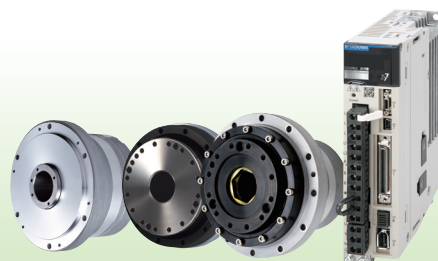


Series	SHA-SG	SHA-CG	FHA-C mini	PMA
Size	20 / 25 / 32 / 40 / 45 / 58 / 65	20 / 25 / 32 / 40	8 / 11 / 14	08 / 09 / 12 / 15 / 21A



"Σ-7 series" MECHATROLINK- III made by YASKAWA Electric Corporation is supported.

HarmonicDrive®
AC servo
actuator/
motor + **AC servo drive
Σ-7series**



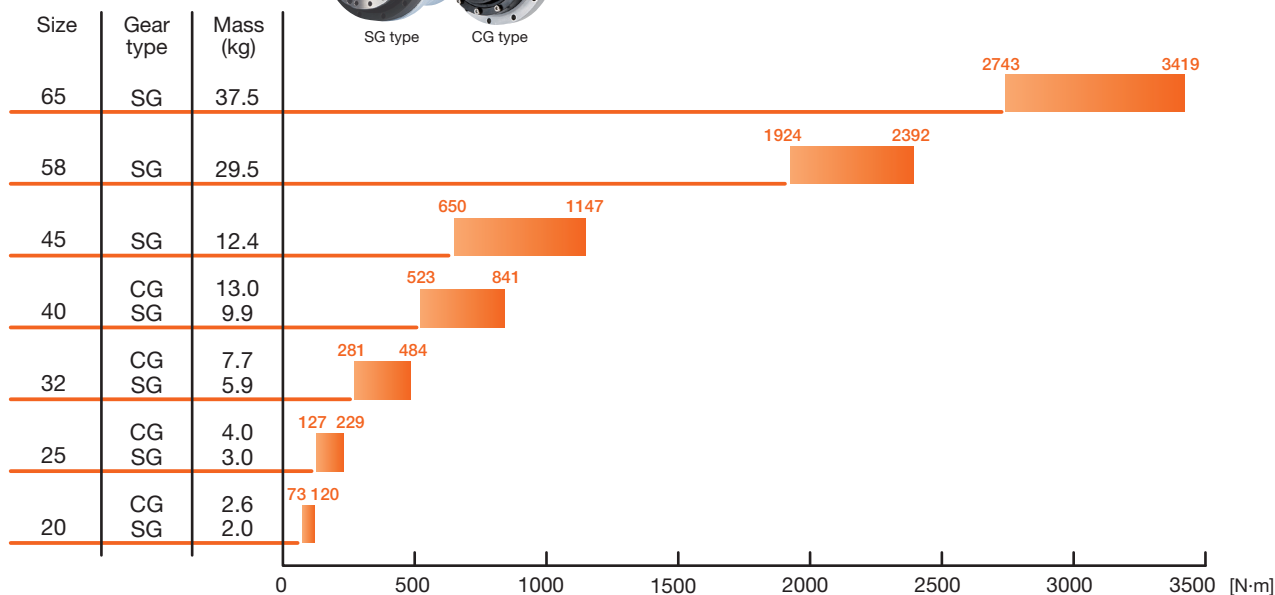
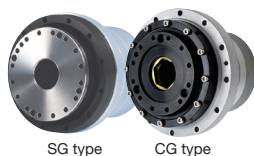
Series	SHA-SG	SHA-CG	YMA
Size	25 / 32 / 40 / 58 / 65	25 / 32 / 40	09 / 12 / 15 / 21A

* INC indicates the incremental encoder specification. All products without this mark indicate the absolute encoder specification.

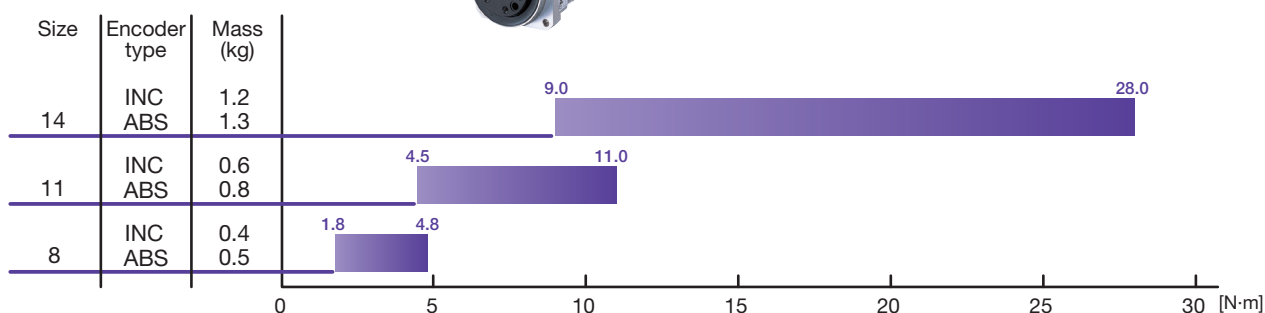
* For details of the specifications of a product, please refer to the leaflet or technical data of the relevant product.

Maximum torque map

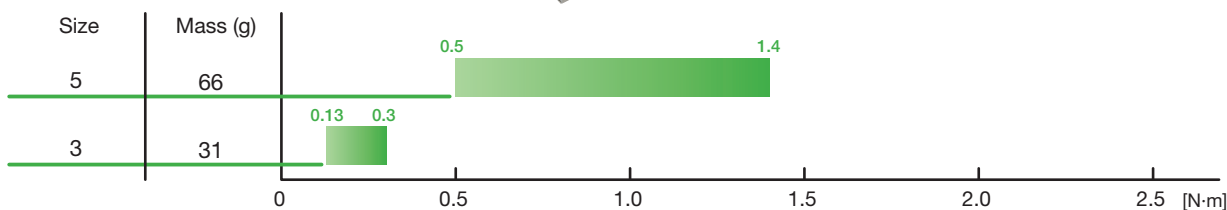
SHA series



FHA-C mini series



RSF supermini series



Please contact our sales department with any questions.

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The academic or generic term of our "HarmonicDrive" products is "strain wave gearing."

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