

MELSERVO-J5 SERIES


MELSERVO-J5 servo products set the standard for servo performance in the world of factory automation. Cutting-edge technology, industry-leading performance, and advanced servo features allow users to unlock unused potential in their machines and factories.




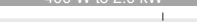


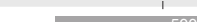
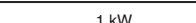
Take advantage of Mitsubishi Electric's complete line of automation products including PLC, HMI, inverters, CNC, and robots to build a complete system that meets your exact needs.



HIGH PERFORMANCE SERVO MOTORS

The MELSERVO-J5 Series provides industry-leading performance and precision in a compact footprint to meet a wide range of application needs. Featuring an expanded capacity range, single cable connection, and a 26-bit batteryless encoder. Sizing and selection is made easy with our new Motorizer sizing software and our servo selection tool.

 : Future release planned


Series	Inertia	Motor Type	Power Supply	Capacity
HK-KT	Low Inertia	HK-KT_W	200 V AC	
			400 V AC	
HK-KT_4-W		200 V AC		
		400 V AC		
HK-ST	Medium Inertia	HK-ST_W	200 V AC	 Up to 11.0 kW
			400 V AC	
HK-SET_4_W		200 V AC	 Up to 5.5 kW	
		400 V AC		







0.1 kW 1 kW 10 kW



FLEXIBLE SERVO AMPLIFIERS

MELSERVO-J5 Series amplifiers allow for high-speed precise control of MELSERVO-J5 Series motors. Built-in servo functions automatically tune an axis, suppress vibrations, predict failures, and enable easy trouble shooting and maintenance. Choose single, dual, and three axis configurations. This reduces servo system footprint, decreases settling time, simplifies wiring, and reduces the total cost of ownership (TCO) for a Mitsubishi Electric servo system.

 : Future release planned

Model	Power Supply	Command Interface	Capacity
MR-J5-G-RJ	200 V AC	CC-Link IE Field TSN	 Up to 22 kW
	400 V AC		
MR-J5W2-G	200 V AC		
MR-J5W3-G	400 V AC		
MR-J5-A	200 V AC	Pulse Train/ Analog Voltage	 Up to 22 kW
	400 V AC		

0.1 kW 1 kW 10 kW 100 kW



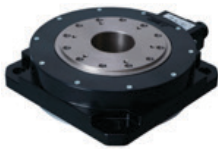
LINEAR SERVO MOTORS

LM Series linear servo motors are available with three different core types and one core-less option for maximum flexibility.

Series	Type	Max Speed	Capacity	
LM-U2	Coreless	2 m/s	50 to 800 N	150 to 3200 N
	Core	3 m/s	70 to 960 N	175 to 2400 N
LM-H3	Core with Counter Force	2 m/s	120 to 2400 N	300 to 600 N
LM-K2	Core, Natural Cooling	2 m/s	300 to 3000 N	180 to 180000 N
LM-F	Core, Liquid Cooling	2 m/s	600 to 6000 N	180 to 180000 N

Legend:
 Rated Torque
 Maximum Torque

X-axis labels: 10 N, 100 N, 1,000 N



DIRECT DRIVE MOTORS

The TM-RFM Series direct drive motor offering fits perfectly into applications requiring low speed and high torque.

Series	Type	Capacity	
TM-RG2M TM-RU2M Low-Profile	Ø 130 mm	2.2 Nm	8.8 Nm
	Ø 180 mm	4.5 Nm	13.5 Nm
	Ø 230 mm	9 Nm	27 Nm
TM-RFM High-Rigidity	Ø 130 mm	2 to 6 Nm	6 to 18 Nm
	Ø 180 mm	6 to 18 Nm	18 to 24 Nm
	Ø 230 mm	12 to 72 Nm	36 to 216 Nm
	Ø 330 mm	40 to 240 Nm	120 Nm to 720 Nm

X-axis labels: 1 Nm, 10 Nm, 100 Nm



MOTION CONTROL

Total system performance, not individual component specifications, leads to maximum performance. Based on this view, the iQ-R Series of motion controllers offers you an ideal solution to maximize your system productivity and meet your performance requirements.

	MELSEC iQ-R Series	
	RD78GH	RD78G
Maximum Number of Control Axes	RD78GHV: 128 axes RD78GHW: 256 axes	RD78G4: 4 axes RD78G8: 8 axes RD78G16: 16 axes RD78G32: 32 axes RD78G64: 64 axes
Minimum Operation Cycle	31.25 µs	62.5 µs
Communication Speed	1 Gbps	
Command Interface	CC-Link I ^E TSN	
Control Mode	Positioning Control Speed Control Torque Control Synchronous Control Cam Control	
Positioning Control	Linear Interpolation Circular Interpolation	
Acceleration/Deceleration Process	Trapezoidal acceleration/deceleration Jerk acceleration/deceleration Acceleration/deceleration time fixed method	

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