







The Servo You've Been Waiting For

The new Mitsubishi MELSERVO-JE servo amplifiers and servo motors are here. Combining proven reliability with a 2.0 kHz high-frequency response and an energy-saving design, they offer the best-in-class performance with the setup ease of Advanced One-Touch Tuning. Fully compliant with global standards and ready for deployment worldwide, MELSERVO-JE series is the servo solution you've been waiting for.

Fast, Accurate, and Easy to Use

MITSUBISHI SERVO AMPLIFIERS & MOTORS MOTORS

Easy To Use

High-Precision Tuning

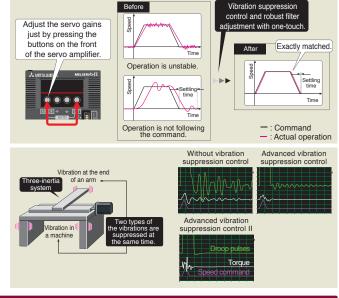
Servo Gain Adjustment with One-Touch Ease Advanced One-Touch Tuning Function

S ervo gains including machine resonance suppression filter, advanced vibration suppression control II*, and robust filter are adjusted just by pressing the buttons on the front of the servo amplifier. Machine performance is utilized to the fullest using the advanced vibration suppression control function.

* The advanced vibration suppression control II automatically adjusts one frequency.

Suppress Two Types of Low Frequency Vibrations at Once Advanced Vibration Suppression Control II

Due to vibration suppression algorithm which supports three-inertia system, two types of low frequency vibrations are suppressed at the same time. Adjustment is performed on MR Configurator2. This function is effective in suppressing vibration at the end of an arm and in reducing residual vibration in a machine.



Improved Tolerance against Instantaneous Power Failure

Main circuit capacito

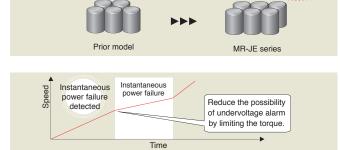
Reduce machine downtime

Large Capacity Main Circuit Capacitor

The improved tolerance against instantaneous power failure is improved as the capacity of the main circuit capacitor is increased by 20% from the prior model, reducing machine downtime and improving productivity.

Instantaneous Power Failure Tough Drive

The possibility of undervoltage alarm is reduced by limiting the torque when instantaneous power failure is detected in the main circuit power supply.

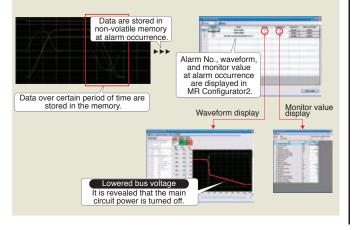


Easy Monitoring and Maintenance

Analyze Cause of Alarm Large Capacity Drive Recorder

S ervo data such as motor current and position command before and after the alarm occurrence are stored in non-volatile memory of the servo amplifier.

This function allows you to check the monitor values and the waveform of the past 16 alarms in the alarm history ((analog 16 bits × 7 channels + digital 8 channels) × 256 points) on MR Configurator2. The data read on MR Configurator2 help you to analyze the cause of the alarm.

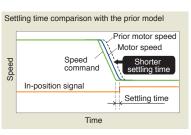


High Performance

Fast and Accurate

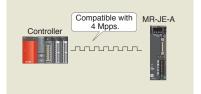
Speed Frequency Response of 2.0 kHz

The top-level speed frequency response of 2.0 kHz shortens the settling time substantially, reducing the tact time of a machine.



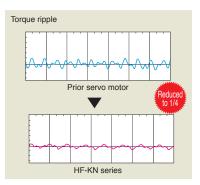
Max Command Pulse Frequency of 4 Mpps

MR-JE-A having a general-purpose interface is compatible with the maximum command pulse frequency of 4 Mpps, enabling smooth operation.



Smooth, Constant-Speed Operation

By optimizing the combination of the number of motor poles and the number of slots, torque ripple during conduction is reduced to 1/4 as compared to the prior series. Smooth constant-velocity operation of a machine is achieved.



Accurate Positioning

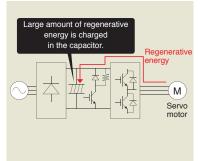
The servo motor equipped with an incremental encoder of 131072 pulses/rev (17-bit) enables high-accuracy positioning and smooth rotation.

Eco-Friendly Performance

Efficient-Utilization of Regenerative Energy

apacity of the main circuit capacitor is increased by 20% as compared to that of the prior model, and thus the charging capacity is increased, enabling larger regenerative energy to be reused as driving power

Additionally, because the control circuit and the main circuit use a common power supply, the regenerative energy is also used for the control circuit, reducing waste in energy consumption.



Power Monitor Supports Energy Saving

The servo amplifier calculates the driving power, the regenerative energy, and the power consumption from the data such as speed and current.

With MR Configurator2, the power consumption is monitored in real time. The Visualization of power consumption supports the energy conservation.



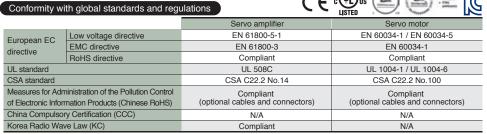
Global Standard

Fully Compliant Worldwide

Best Quality All Over The World

Use the MR-JE series globally.

The servo amplifiers and the servo motors conform to global standards as standard.



^{*1.} Refer to "Servo Amplifier Instruction Manual" and "EMC Installation Guidelines" when your system needs to meet the EMC directive.

*2. When exporting the product, follow the local laws and regulations.

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The command pulse input and the digital input/output are compatible with both sink and source type connections.

Extensive Global Support Network

Global FA Centers

Mitsubishi FA Centers are located throughout North America, Europe, and Asia to support the MELSERVO users all over the world

In addition to the local assistance for purchasing products and after-sales services, we provide attentive services including technical consulting and practical training for equipment operations.



LINEUP







