

Mitsubishi Electric Automation Introduces One-touch Auto-tuning MR-JN Servo Series

High speed, accuracy, easy set-up, and compact size make it ideal for stepper applications

Vernon Hills, Ill. – October, 2011 – Mitsubishi Electric Automation, Inc. has introduced its MR-JN series of servos for stepper motor applications. The compact, economical MR-JN provides OEMs and end-users servo performance on machines without the complexity of traditional stepper or servo solutions.

Available in 50-, 100-, 200- and 400-watt sizes with 100- and 200-volt AC power supplies, the MR-JN series provides the flexibility to tailor axes to a machine's actual power requirement, minimizing system size and cost. Its compact bookcase-style mounting design means smaller electrical panels are needed for X-Y tables and applications such as conveyors; food processing machines; loaders and unloaders; robots; medical devices; laboratory automation equipment; and semiconductor, LCD and solar battery processing machines.

The MR-JN can tune a machine with only one touch of a button on the front of the amplifier, automatically learning machine conditions and motion profiles through encoder feedback. The MR-JN's amplifier then decides the best moment of inertia, the best gains for the machine on the fly, and completes the tuning process. A three-digit display indicates when tuning is complete. This whole process only takes about two minutes, rather than several hours or days. This three-digit display is also very helpful to maintenance engineers, providing details about any alarms and quickly identifying the cause of a problem.

Mitsubishi Electric Automation's popular "Advanced Vibration Controller" feature is also available on the MR-JN amplifier and is easily implemented by setting the tuning parameters. And a new "Tough Drive Function" on the MR-JN reduces mechanical wear by continually monitoring and adjusting low-pass filters, eliminating resonance and vibrations as the machine ages.

“Today manufacturers are challenged by tougher economic conditions, and have fewer resources available to build or try newer solutions that could yield better uptime and return on investment,” said Sunny Ainapure, senior product manager, at Mitsubishi Electric Automation. “Many small machine makers or stepper motor users do not have skilled technicians to install and tune servos.

“The MR-JN amplifier has built-in motion profiles, and we can create custom profiles using point table programming or basic language programming. This can eliminate the need for programmable logic or motion controllers altogether.”

About Mitsubishi Electric Automation, Inc.

Mitsubishi Electric Automation, Inc., in Vernon Hills, IL, offers a comprehensive line of factory automation solutions. Products include programmable automation controllers, programmable logic controllers, human machine interfaces, AC variable frequency drives, servo amplifiers and motors, motion controllers, control software, computerized numerical control systems and robots. For a broad range of factory automation applications, visit the Mitsubishi Electric Automation web site at www.meau.com

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Contact: Sunny. Ainapure
Mitsubishi Electric Automation
847.478.2100
Sunny.ainapure@meau.com