

Optimum servo system parameterisation with just one click

“One-touch tuning” with the MELSERVO MR-J4 amplifier series

Ratingen/Karlsruhe, 5th February 2013

Mitsubishi Electric sees the Fachpresstages Stutensee in Karlsruhe (5-7 February 2013) as the perfect opportunity to present its new MELSERVO MR-J4 amplifier series with “one-touch tuning” function. Compared to the previous series, the MR-J4 series simplifies operation and commissioning once again while ensuring a high level of performance at the same time. The result: increased safety in the production process and productivity. Mitsubishi Electric has also been able to optimise the tried and tested “auto-tuning” function in the MR-J4 series once again. With the new “one-touch tuning” function, time-consuming system tuning between mechanical and electronic systems is minimised at the touch of a button: control parameters are automatically adjusted accordingly and the resonant frequencies of machinery and mechanical systems are identified and filtered. There is no need to balance individual applications. The result: a vibration-free, high-precision fast positioning process – with just one click.

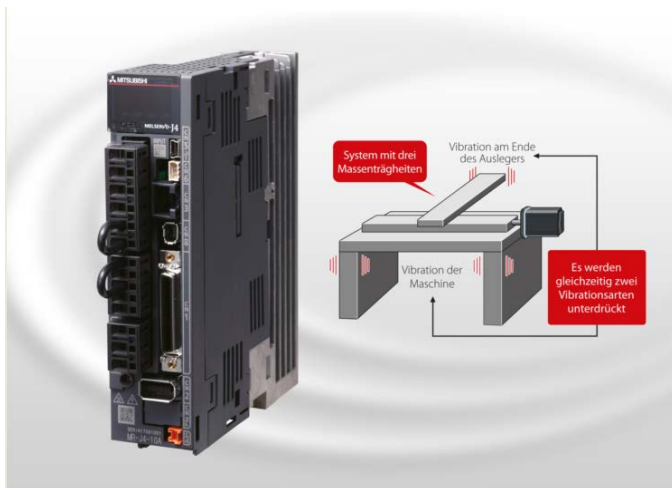
“A servo system is a highly complex assembly with different PID controllers, resonance filters and parameters which have to be precisely adjusted to the relevant mechanical application”, explains Oliver Giertz, European Product Manager Servo/Motion at Mitsubishi Electric Europe B.V. “With the ‘one-touch tuning’ function, you can automatically set all the control parameters, including different filters for machine resonance and vibration suppression for example, at the touch of a button without any problems.” The improved tuning function reduces commissioning time to a minimum which ultimately leads to cost savings. Neither the technical knowledge of a control expert nor additional measurement devices are required.

The MR-J4 series is suitable for a wide range of uses including high-precision pick-and-place applications with rapid positioning or for packaging machinery, positioning tables and handling systems for which vibration-free operation at a constant speed is what matters.

Besides auto-tuning and vibration filters, the MR-J4 series has a “life diagnosis” function which checks the condition of the components installed throughout the lifecycle of the system and reports deviations. As a result, unscheduled downtime and idle time can be almost completely avoided.

Mitsubishi Electric has gained many years of experience in the field of real time auto-tuning: since 1990, the company has implemented corresponding functions in its servo-amplifiers to which additional adaptive filters and vibration suppression methods have been added over the years.

Photo captions:



Mitsubishi Stutensee 2013 One-Touch-Tuning.jpg:

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About Mitsubishi Electric:

With 90 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, Mitsubishi Electric Corporation is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, as well as in products for the energy sector, water and waste water, transportation and building equipment.

With around 117.000 employees the company recorded consolidated group sales of 36,3 billion Euro* in the fiscal year ended March 31, 2012.

Our sales offices, research & development centres and manufacturing plants are located in over 30 countries.

Mitsubishi Electric Europe B.V., Factory Automation European Business Group (FA-EBG) has its European headquarters in Ratingen near Dusseldorf, Germany. It is a part of Mitsubishi Electric Europe B.V., a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan.

The role of FA-EBG is to manage sales, service and support across its network of local branches and distributors throughout the EMEA region.

**Exchange rate 109,56 Yen = 1 Euro, Stand 31.3.2012 (Source: Deutsche Bundesbank)*

Further Information:

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