

Panasonic Industry introduce first commercialized AI-equipped servo system

MINAS A7 servo drives offer AI for ultra-high precision automatic tuning complementing the abilities of experts

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Recently introduced and now available for customer orders in Europe, the new compact MINAS A7 servo drive family from Panasonic Industry is the industry's first commercialized AI-equipped servo system. The devices use Panasonic Industry's independently developed precAlse tuning, making full use of AI technology to achieve highly precise automatic tuning without any need for an expert engineer. This also reduces setup time by up to 90%.

MINAS A7 motors and drives improve equipment performance while simplifying installation and operation. Thanks to the integrated AI the servo system can even automate tasks in areas where experts are needed to spend time for tuning machines manually due to unsatisfactory performance from conventional automatic tuning functions. The product also achieves the industry's highest level of motion performance with an encoder resolution of the servo motor with 27 bits and 134,217,728 pulses/time. The speed response frequency, which indicates the control performance of servo amplifiers, reaches an industry high of 4.0 kHz or greater. Furthermore, the servo motor achieves a maximum rotation speed of 7,150 r/min which contributes to shorter cycle times. The MINAS A7 impresses with a compact design saving space and resulting in cost effectiveness. Last but not least, MINAS A7 servo drives are backward compatible to MINAS A6 devices. They are 1:1 replaceable thanks to the same interfaces and flange size.

Philipp Zebisch, Senior Team Manager Product Management at Panasonic Industry comments: "Our newly introduced MINAS A7 servo drive family ensures an extremely stable operation and longer service life of machine components thanks to the online monitoring tools. With the development of the MINAS A7 series, we have achieved an optimum of human-machine operations due to its highly intelligent automation and monitoring capabilities. They reduce installation time and maintenance costs and guarantee the highest processing quality and speed in numerous applications like spin coaters, dicing saws, chip transfer machines, IC handlers, bonding equipment, equipment for substrate inspection, metal and laser processing machines, injection molding machines, presses and pipe-bending machines."

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For further information on Panasonic Industry's MINAS A7 servo drives please click [here](#).

About Panasonic Industry Europe GmbH

Panasonic Industry Europe GmbH is part of the global Panasonic Industry organization, one of the eight major operating companies within Panasonic Holding. Panasonic Industry Europe provides products and services for industrial customers all over Europe.

Panasonic Industry Europe is committed to enabling customers to achieve their goals in a broad range of industrial sectors such as mobility, infrastructure, automation, medical, appliances, smart living, and security. With the know-how of devices and solution technologies, cultivated through a global mindset and over a century of tradition, Panasonic Industry collaborates closely with customers to create a sustainable future.

Panasonic Industry Europe's broad and diverse product portfolio encompasses key electronic component sectors including electromechanical and passive components, batteries and other energy products, sensors and wireless connectivity modules, thermal management materials and custom solutions, as well as automation devices & solutions.

More about Panasonic Industry Europe: <http://industry.panasonic.eu>

About the Panasonic Group

Founded in 1918 and today a global leader in developing innovative technologies and solutions for wide-ranging applications in the consumer electronics, housing, automotive, industry, communications, and energy sectors worldwide, the Panasonic Group switched to an operating company system on April 1, 2022, with Panasonic Holdings Corporation serving as a holding company and eight companies positioned under its umbrella.

The Group reported consolidated net sales of Euro 54.12 billion (8,496.4 billion yen) for the year ended March 31, 2024. To learn more about the Panasonic Group, please visit: <https://holdings.panasonic/global/>