

Yaskawa Introduces New Generation of Servo Products

Sigma-7 family of servo motors and amplifiers raise the bar in automation performance

Waukegan, Ill. The Drives & Motion Division of Yaskawa America, Inc. announces the introduction of Sigma-7, a new line of rotary, linear and direct drive servos and amplifiers that bring a new level of operating efficiency to automated equipment.

System designers and automation end users will benefit from the speed, precision and efficiency improvements in Sigma-7, the most technologically advanced servo systems ever created by the world's largest manufacturer of drives, motion control, and robotics. Among Sigma-7's key advantages:

- Nearly double the bandwidth of Yaskawa's industry-leading Sigma-5 servos, for quicker response to system commands
- 24-bit encoding that boosts precision to a level 16 times higher than the industry standard
- A 20% smaller footprint, plus a new amplifier design that saves control panel space
- A new package of algorithms that correct machine imperfections, including ripple compensation, anti-resonance and friction model compensation
- New dual-axis amplifiers that mount in smaller spaces, cut parts counts and regenerate power for long-term energy conservation
- Full compatibility with millions of Sigma-5 servos currently in the field, enabling replacement without the need for reprogramming or re-engineering existing equipment

18 new Sigma-7 products cover a wide range of motion control applications, with rotary servos from 3 W to 55 kW in output. Users can choose from two direct drive servos and four linear products, including a SigmaTrac option designed for easy bolt-on, plug-in implementation. Sigma-7 amplifiers offer the option of interface via EtherCAT, MECHATROLINK or analog connections. The line also includes a SigmaLogic SERVOPACK that sequences motion using the Add On Instructions (AOIs) used by programmable logic controllers.

"Yaskawa's Sigma-5 servos are already the clear leader in features and performance," stated Scott Carlberg, Sigma-7 Product Marketing Manager, "and Sigma-7 makes the best in the industry even better." This is especially important in competitive industries like packaging and electronic assembly, where every incremental productivity improvements yield huge gains in profitability. "Bandwidth and resolution improvement like this will open doors with end users who can't settle for less than the highest possible speed and the greatest possible precision."

About Yaskawa

Yaskawa America's Drives & Motion Division manufactures industrial automation equipment, including variable speed drives, servo systems and motion controllers, low-voltage industrial controls and spindle drives and motors. The company's Motoman Robotics Division makes industrial robots that can weld, assemble, cut and handle goods for manufacturers. Yaskawa products are used in a wide variety of industries, including packaging, automotive, building automation, pharmaceutical, machine tool, material handling, metal forming, solar, plastics, rubber, and textiles. Yaskawa America, Inc. employs more than 1,000 people in its headquarters in Waukegan, IL, its manufacturing facilities in Buffalo Grove, IL and Oak Creek, WI, and in offices across the United States. For more information about Sigma-7 and other Yaskawa products visit our website at www.yaskawa.com.

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