

Sigma SD Makes a Significant Difference in Machining Applications

New spindle system brings Yaskawa's superior servo control to metals manufacturing

Waukegan, Ill. The Drives & Motion Division of Yaskawa America, Inc. announces the introduction of the [Sigma SD line](#) of spindle drive systems. The new product was created to bring a notable increase in precision and productivity to automated machining equipment.

Sigma SD draws upon the technical advances of Yaskawa's Sigma Series servo systems to meet the specialized demands of high volume machine tool manufacturers. The SD product uses Sigma technology to give a spindle drive exceptionally precise speed control, plus the ability to move between speed settings very rapidly. This capability enables an SD system to create more finished components per hour without sacrificing the quality and uniformity of the finished component.



Sigma SD also delivers the specific performance features automated machining centers need, including:

- **High speed output** in a system custom configured to provide the high RPM ratings unique to machine tool applications
- **A high bandwidth drive** to increase amplifier response at high speeds and overcome rapid changes in spindle inertia
- **Analog or EtherCAT interface** for easy integration with the control networks of existing machining systems
- **Full regen power converter** conserves power to cut energy bills, minimize heat and reduce the size of control cabinets

The new line was built on decades of Yaskawa motion control expertise in all types of advanced manufacturing applications, from traditional machining and shape cutting to the latest forms of advanced 3D printing and beyond. "Sigma SD represents the type of product we have a tradition of excelling in," observed Chris Knudsen, Advanced Manufacturing Marketing Strategist for Yaskawa. "We have a reputation for being a step ahead in the things that matter most to this market. They want a finished product with a smoother finish, greater flexibility for operations like tapping and an improvement

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Document Number: PR.SigmaSD.01
2/26/2018

in throughput that translates directly to the bottom line. That's what customers expect, and that's precisely what we'll be delivering with Sigma SD."

About Yaskawa

The Drives & Motion Division of Yaskawa America, Inc. manufactures industrial automation equipment. In addition to servo systems and motion controllers, the company's products include industrial AC drives, commercial HVAC drives, spindle drives and motors, and low-voltage industrial control switches.

Yaskawa products are used in a wide range of industries, including automotive, building automation, chemical and petrochemical, food and beverage, machine tool, material handling, metal forming, packaging, pharmaceutical, solar, plastics and rubber, and textile applications. Yaskawa America's Motoman Robotics Division makes industrial robots that can weld, assemble, cut and handle goods for manufacturers.

Yaskawa America, Inc. employs more than 1,000 people at 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 our products, please visit our website at www.yaskawa.com.