

Smaller Size a Big Advance in Direct Drive Servos

New SGM7F opens the door to more backlash-free automation applications

Waukegan, Ill. The Drives & Motion Division of Yaskawa America, Inc. has introduced a direct drive servo motor that packs a new level of performance into a more compact size than anything offered before.

The new Yaskawa [SGM7F line of direct drive servo motors](#) delivers from 4 to 35 Nm of torque in a device as small as 2.1" high and 5.3" in diameter (53x135mm). This size advantage makes it possible to apply the mechanical benefits of a direct coupling between a servo motor and a load in tighter spaces than ever before. Machine designers can use SGM7F to make automated machinery more compact, freeing up valuable space on crowded plant floors.



The chief advantage of direct drive products is the ability to attach a load directly to the servo motor, allowing a full range of motion control without the need for a shaft coupling or gearhead. SGM7F also offers a superior level of torsional stiffness and virtually eliminates mechanical backlash. This yields an output that minimizes damage to components and maximizes positioning accuracy and repeatability. The SGM7F also offers a host of other advantages, including:

- An open core design that adapts easily to shaft mounting and allows wiring to pass through easily
- 24-bit encoding for exceptionally precise motion control
- A self-cooled design that generates a low level of heat
- A design that is ideal for applications which require downsizing and shorter cycle time

The SGM7F line offers eight different models to suit a wide range of industrial applications, including dial tables, transfer lines, die actuators, electronic parts assembly, and print registration.

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's 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.

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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 SGM7F, please visit our website at yaskawa.com.