## **PRESS RELEASE**

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**Dual-Arm SDA-Series Robots Provide Next-Generation Speed, Application Flexibility**

**Dayton, OH (September 2016)** — Quick and agile, with “human-like” flexibility of movement, the Motoman® Slim Dual Arm (SDA-series) robots provide the reach, payload, speed, performance and flexibility required to perform a myriad of assembly, handling, machine tending packaging and part transfer applications that formerly could only be done by people. SDA-series robots feature 15 axes of motion (7 axes per arm, plus a single axis for base rotation). Internally routed cables and hoses reduce interference and maintenance, and also make programming easier.

Both robot arms can work together on one task to double the payload or handle heavy, unwieldy parts, trays or pallets. It can also lift much more than its payload capacity when using a jib crane or other lift assist device.

The ability to use dual independent arms to process parts reduces the need for expensive custom fixturing and allows end-of-arm tooling to be simple and less costly. SDA-series dual-arm robots can hold a part with one arm while performing operations on the part with the other arm. Parts can be turned over by a simple hand to hand transfer with no need to set the part down, or add additional hardware.

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|  | **SDA5F  SDA5D** | **SDA10F SDA10D** | **SDA20F SDA20D** |
| Axes | 15 | 15 | 15 |
| Payload | 5 kg (11 lb) | 10 kg (22.1 lb) | 20 kg (44.1 lb) |
| Horizontal Reach | 845 mm (33.3”) | 720 mm (28.3”) | 910 mm (35.8”) |
| Vertical Reach | 1,118 mm (44”) | 1,440 mm (56.7”) | 1,820 mm (71.7”) |
| Repeatability | ± 0.06 mm (0.003”) | ± 0.1 mm (0.004”) | ± 0.1 mm (0.004”) |

The actuator-based design of the SDA-series robots means that the motor, encoder, reducer and brake for each robot axis are combined in one small, lightweight yet powerful package that is significantly smaller than a traditional AC servo motor drive. Advantages include a slim arm profile, lightweight robot body and high wrist moment and inertia ratings attractive to service and entertainment applications.

SDA-series robots are available with the FS100 controller. The FS100 is Yaskawa Motoman’s compact, powerful and open controller that is designed for small parts handling and assembly applications.

# About Yaskawa Motoman

Founded in 1989, the Motoman Robotics Division of Yaskawa America, Inc. is a leading robotics company in the Americas. With over 300,000 Motoman® robots installed globally, Yaskawa provides automation products and solutions for virtually every industry and robotic application; including arc welding, assembly, coating, dispensing, material handling, material cutting, material removal, packaging, palletizing and spot welding. For more informationplease visit our website at [www.motoman.com](http://www.motoman.com) or call 937.847.6200.

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