

KEY BENEFITS

Dexterity to perform complex tasks; dual 7-axis arms work together or independently

Slim design optimizes space; provides "human-like" flexibility and range of motion, even in tight spaces

Simplified tooling reduces cost

Can be used in environments that are hazardous to humans

Labor savings justifies capital investment

SPECIFICATIONS

10 kg payload per arm 1,440 mm vertical reach 720 mm horizontal reach per arm ±0.1 mm repeatability

CONTROLLERS

DX200 FS100 MLX200

SLIM, DUAL-ARM ROBOT WITH "HUMAN-LIKE" FLEXIBILITY

- Superior dexterity and best-in-class wrist characteristics make slim, dual-arm robot ideally suited for assembly, part transfer, machine tending, packaging and other handling tasks that formerly could only be done by people.
- Highly flexible; 15 axes of motion (7 axes per arm, plus a single axis for base rotation).
- Powerful actuator-based design provides "human-like" flexibility and fast acceleration.
- Internally routed cables and hoses
 (6 air, 12 electric) reduce interference and maintenance, and also make programming easier.
- 10 kg payload per arm; 720 mm horizontal reach per arm; 1,440 mm vertical reach per arm; ±0.1 mm repeatability.
- Both robot arms can work together on one task to double the payload or handle heavy, unwieldy objects. Two arms can perform simultaneous independent operations.

 Ability to hold part with one arm while performing additional operations with other arm and to transfer a part from one arm to the other with no need to set part down.

FS100 CONTROLLER

PACKAGING | PART TRANSFER

- Small, compact controller.
- 470 mm wide, 200 mm high, 420 mm deep.
- Designed for packaging and small parts handling robots with payloads of 20 kg and under.
- Compatible with integrated MotoSight™ 2D vision (optional).
- Improved communication speeds and functionality.
- High-speed I/O response and highresolution timers.
- Open architecture enables software customization in widely accepted environments such as C, C++, C# and .NET.
- Uses similar programming pendant hardware as DX200 controller, providing a consistent programming interface.

SDA10F ROBOT 985 985 R720 R720 - R276 R720 R276 360 1354 1200 R720 155 R720 BRI 342.5 157.5 2X AIR EXHAUST PT3/8 TAPPED (WITH PLUG) - 250 (A) 250 505 INTERNAL USER WIRING CONNECTOR TYPE IS LF10WBRB-12S (SOCKET CONNECTOR) 720 VIEW D 2X Ø12 MATCHING CONNECTOR TYPE IS LF10WBP-12P (HIROSE) CONNECTORS FOR INTERNAL USER I/O WIRING HARNESS: 2X Ø6 x10 · LF10WBRB-12P (PIN CONNECTOR)(3 CONNECTORS) PREPARE SOCKET CONNECTOR: LF10WBP-12S (HIROSE) 4X M6 X 1 X x11 140 P.C.D. 61. 220 P.C.D. 63 (505) VIEW B R720 6X AIR INLET PT3/8 TAPPED VIEW A (WITH PLUG) VIEW C VIEW E

SPECIFICATIONS

All dimensions are metric (mm) and for reference only.

SPECIFICATIONS							
Axes	Maximum motion range	Maximum speed	Allowable moment	Allowable moment of inertia	Controlled axes	15	
7 (7.05	[°]	[°/sec.]	[N·m]	[kg·m²]	Maximum payload (per arm) [kg]	10	
Rotaion	±170	130			Repeatability [mm]	±0.1	
S	±180	170	-	-	Horizontal reach (per arm) [mm]	720	
L	±110	170	-	-	Horizontal reach (P-point to P-point) [mm]	1,970	
Е	±170	170	-	-	Vertical reach [mm]	1,440	
U	±135	170	-	-	Protection - IP rating XP Package (optional)	IP54 Base; IP65 Body; IP67 Wrist	
R	±180	200	31.4	1	Weight [kg]	220	
В	±110	200	31.4	1	Power requirements	1- or 3-phase; 200/230 VAC at 50/60 Hz	
Т	±180	400	19.6	0.4	Power rating [kVA]	2.7	

OPTIONS

Wide variety of fieldbus cards

Vision systems

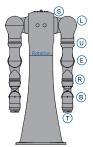
Robot base I/O cables

External axis kit

Material handling software package

Conveyor tracking

MotoFit[™] force sensing package



AXES LEGEND

Rotation Axis: Waist

S-Axis: Lifting

L-Axis: Lower Arm

E-Axis: Elbow

U-Axis: Upper Arm

R-Axis: Upper Arm Twist

B-Axis: Wrist Pitch / Yaw

T-Axis: Wrist Twist

Yaskawa America, Inc. Motoman Robotics Division

100 Automation Way Miamisburg, OH 45342 Tel: 937.847.6200 Fax: 937.847.6277

motoman.com

