



YASKAWA

YASKAWA INDUSTRIAL ROBOT MOTOMAN-DIA10

10 kg/ARM PAYLOAD
15-AXIS ARTICULATED



Agile Flexibility

Bringing Robots One Step Closer to Human Performance

The finesse of the human arm without the physical limitations.
The MOTOMAN-DIA10 is one of a new generation of dual-arm robots that can coordinate two 7-axis arms at high speeds with incredible flexibility.
Its slim design and graceful motion will revolutionize production lines worldwide.

■ Applications

- Improved Physical Distribution
 - Classification and placement of workpieces for individual processing
 - Continuous handling with dual arms without intermediate placement of the workpieces on table
 - Handling of heavy workpieces with dual arms
- Improved Assembly
 - Jigless assembly with dual arms
 - Complicated assembly with coordinated motion of arms



Application Examples

MOTOMAN-DIA10

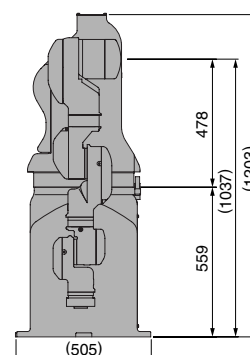
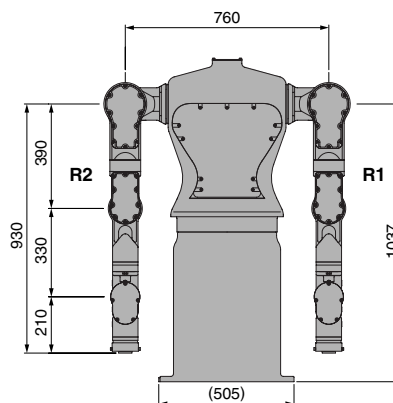
■ Manipulator Specifications

Model		MOTOMAN-DIA10	
Controlled Axis		15 (Articulated) [7 axes for left arm (R1), 7 axes for right arm (R2), 1 rotary axis]	
Payload		10 kg/arm	
Repeatability*1		±0.1 mm	
Range of Motion*2	Rotation	±180°	
	R1	S-axis (lifting)	±180°
		L-axis (lower arm)	+30°, -210°
	R2	7-axis (lower arm twist)	±180°
		U-axis (upper arm)	±120°
		R-axis (upper arm twist)	±180°
	R2	B-axis (wrist pitch/yaw)	±105°
T-axis (wrist twist)		±180°	
Maximum Speed	Rotation	2.97 rad/s, 170°/s	
	R1	S-axis (lifting)	2.97 rad/s, 170°/s
		L-axis (lower arm)	2.97 rad/s, 170°/s
	R2	7-axis (lower arm twist)	2.97 rad/s, 170°/s
		U-axis (upper arm)	2.97 rad/s, 170°/s
		R-axis (upper arm twist)	4.36 rad/s, 250°/s
	R2	B-axis (wrist pitch/yaw)	4.36 rad/s, 250°/s
T-axis (wrist twist)		8.73 rad/s, 500°/s	

*1 : Conforms to JIS B 8432.

*2 : The range of motion is based on the robot's posture shown on the right.
Note : SI units are used for specifications.

■ Dimensions Units: mm



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YASKAWA ELECTRIC CORPORATION

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In the event that the end user of this product is to be the military and said product is to be employed in any weapons systems or the manufacture thereof, the export will fall under the relevant regulations as stipulated in the Foreign Exchange and Foreign Trade Regulations. Therefore, be sure to follow all procedures and submit all relevant documentation according to any and all rules, regulations and laws that may apply.

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Specifications are subject to change without notice for ongoing product modifications and improvements.

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