

ROBOTICS

IRB 2400

Industrial robot



The IRB 2400 comprises a complete family of application optimized robots that maximize the efficiency of your arc welding, process and tending applications. It offers increased production rates, reduced lead times and faster delivery for your manufactured product.

— The IRB 2400 is ideal for material handling, machine tending and process applications.

Reliable and robust

The IRB 2400 is a dedicated high performance robot for process applications where the required accuracies are very demanding.

All models offer you inverted mounting capability. The compact design of the IRB 2400 ensures ease of installation. The robust construction and use of minimum parts contribute to high reliability and long intervals between maintenance.

The Foundry Plus version is washable with high pressure steam and it's supplied with increased environment protection meeting IP 67 standard.

Main applications

- Cutting/deburring
- Glueing/sealing
- Grinding/polishing

Specifications		
Variants	IRB 2400-10	IRB 2400-16
Reach	1.55 m	1.55 m
Payload	12 kg	20kg
Protection	FoundryPlus	FoundryPlus
Number of axes	6	6
Mounting	Floor, inverted, wall	Floor, inverted wall

Supplementary load

Upper arm	IRB 2400-10	IRB 2400-16
Wrist end	2 kg	2 kg
Rear end	10 kg	10 kg
Base unit	35 kg	35 kg

Dimensions

	IRB 2400-10	IRB 2400-16
Total height	1564 mm	1564 mm
Robot base	723 x 600 mm	723 x 600 mm
Weight	380 kg	380 kg

Electrical connections

Supply voltage	200–600 VAC, 3-phase, 50-60 Hz
Power consumption	ISO-Cube at max speed 0.67 kW

Environment

Ambient temperature for mechanical unit	
During operation	+5°C (41°F) to +45°C (113°F)
Relative humidity	Max. 95%
Degree of protection	IP54
FoundryPlus	IP67
Noise level	Max. 70 dB (A)
Emission	EMC/EMI-shielded

Data and dimensions may be changed without notice

Performance (according to ISO 9283)

Position repeatability (RP)	0.03 mm
Path repeatability	0.06 mm

Movements

Axis	IRB 2400-10	IRB 2400-16
Working range		
Axis 1	360° *	360°
Axis 2	210°	210°
Axis 3	125°	125°
Axis 4	400°	400°
Axis 4 option	Unlimited	Unlimited
Axis 5	240°	240°
Axis 6	800°	800°
Axis 6 option	Unlimited	Unlimited
Max. speed		
Axis 1	150°/s 90° **	150°/s
Axis 2	150°/s 90° **	150°/s
Axis 3	150°/s 90° **	150°/s
Axis 4	360°/s	360°/s
Axis 5	360°/s	360°/s
Axis 6	450°/s	450°/s

** For wall mounted version

* ±30° for wall mounted robot

IRB 2400-10, IRB 2400-16

