

IRB 1410

Industrial Robot



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The IRB 1410 gives you fast and reliable work cycles that boost productivity. The robot is proven in arc welding applications and provides outstanding performance and value, ensuring short payback times.

The robot has a handling capacity of 5kg at the wrist with a unique 18kg additional load for applications equipment on the upper arm. Superior levels of control and path accuracy provide excellent work quality.

The ability to adjust process speed and position means you achieve optimum manufacturing accuracy with little or no rejects.

IRB 1410 is known for its stiff and robust construction. This translates into low noise levels, long intervals between routine maintenance and long service life. The robot has a large working area and long reach. The compact design, very slim wrist and high performance operation even in difficult and restricted locations.

Adapted for arc welding

The IRB 1410 has integrated wire feed cabling and mounting holes for optimized assembly of process equipment on the arm. Easy-to-use arc welding functions are included as standard in the IRC5 robot controller are made available via the patented programming and operation interface unit - the FlexPendant.

Global service and support

For worry-free operation, ABB also offers Remote-Service, which gives remote access to equipment for monitoring and support. Moreover, ABB customers can take advantage of the company's service organization; with more than 35 years of experience in the arc welding sector, ABB provides service support in over 100 locations in 53 countries.

Main applications

- Arc Welding
- Material Handling
- Machine Tending

Specification

Robot version	Reach of 5th axis (m)	Handling capacity (kg)	Supplementary load, on axis 3 (kg)	Supplementary load, on axis 1 (kg)
IRB 1410	1.44	5	18	19
Number of axes	6			
Mounting	Floor			
Controller	IRC5 Single Cabinet/IRC5 Compact			
Integrated signal supply	12 signals on upper arm			
Integrated air supply	Max. 8 bar on upper arm			

Performance (according to ISO 9283)

IRB 1410	
Max. TCP Velocity	2.10 m/s
Continuous rotation of axis 6	6
Position repeatability	0.02 mm

Technical information

Electrical Connections

Supply voltage	200-600 V, 50/60 Hz
Rated power transformer rating	4 kVA/7.8 kVA with external axes

Physical

Robot base	620 x 450 mm
Robot weight	225 kg

Environment

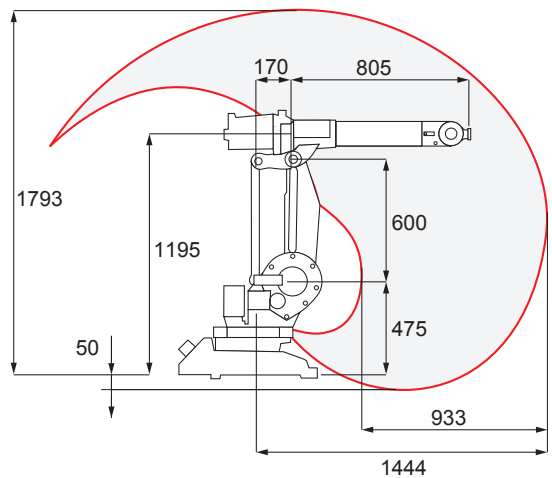
Ambient temperature for mechanical unit	
During operation	+5°C (41°F) to +45°C (113°F)
During transportation and storage	-25°C (-13°F) to +55°C (131°F)
During short periods (max. 24h)	up to +70°C (158°F)
Relative humidity	Max. 95 %
Degree of protection	Class D (dry) for welding, machining etc.
Noise level	Max. 70 dB (A)
Emission	EMC/EMI-shielded
Clean room	Class 100 US Federal Standard 209e

Data and dimensions may be changed without notice.

Movement

Axis movement	Working range	Velocity 3-phase power supply	Velocity 1-phase power supply
Axis 1 rotation	+170° to -170°	120°/s	105°/s
Axis 2 arm	+70° to -70°	120°/s	105°/s
Axis 3 arm	+70° to -65°	120°/s	105°/s
Axis 4 rotation	+150° to -150°	280°/s	280°/s
Axis 5 bend	+115° to -115°	280°/s	280°/s
Axis 6 turn	+300° to -300°	280°/s	280°/s

Working range



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