

IRB 1410 Industrial Robot

Main Application Arc welding



Your best performer

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-following 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.

IRB 1410

Specification

Robot	Handling Capacity	Reach of 5 th axis
	5 kg	1.44 m
Supplementary load		
on axis 3	18 kg	
on axis 1	19 kg	
Number of axes		
Robot manipulator	6	
External devices	6	
Integrated signal supply	12 signals on upper arm	
Integrated air supply	Max. 8 bar on upper arm	

Performance

Position repeatability	0.05 mm (average result from ISO test)	
Movements	IRB 1410	
Max. TCP velocity	2.1 m/s	
Continuous rotation of axis	6	

Electrical Connections

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

Physical

Robot mounting	Floor	
Dimensions		
Robot base	620 x 450 mm	
Weight		
Robot	225 kg	

Environment

Ambient temperature		
Robot unit	5-45 °C	
Relative humidity	Max. 95%	
Degree of protection	Class D (dry) for welding, machining etc.	
Noise level	Max. 70 dB (A)	
Emmission	EMC/EMI-shielded	
Clean room	Class 100 US Federal Standard 209e	

Data and dimensions may be changed without notice

Working Range

