



IRB 1410

Industrial Robot

MAIN APPLICATIONS

- Arc welding
- Assembly
- Glueing/Sealing
- Machine tending
- Material handling



Your best performer

The IRB 1410 gives you fast and reliable work cycles that boost productivity. The robot is well-proven in arc welding, material handling and process applications, with more than 14,000 installations since 1992. It delivers plenty of performance for the money, ensuring short payback times.

The handling capacity is 5 kg, plus a unique 18 kg supplementary load 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.

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TECHNICAL DATA, IRB 1410 INDUSTRIAL ROBOT

SPECIFICATION

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

PERFORMANCE

Position repeatability	0.025mm	
Speed axis		
1	120°/s	
2	120°/s	
3	120°/s	
4	280°/s	
5	280°/s	
6	280°/s	
Type of motion	Range of movement	
Axis 1 Rotation motion	+170° to -170°	
Axis 2 Arm motion	+70° to -70°	
Axis 3 Arm motion	+70° to -65°	
Axis 4 Rotation motion	+150° to -150°	
Axis 5 Bend motion	+115° to -115°	
Axis 6 Turn motion	+300° to -300°	

ELECTRICAL CONNECTIONS

Supply voltage	200-600 V, 50/60 Hz
Power consumption	ISO-Cube at max speed 0.44 kW

* For robot controller technical data, please refer to IRC5 technical data sheet.

PHYSICAL

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

ENVIRONMENT

Ambient temperature	
Robot unit	5 - 45°C
Relative humidity	Max. 95%
Degree of protection	IP 54 for electrics only, dry environment for mechanics
Noise level	Max. 70 dB (A)
Emission	EMC/EMI-shielded
Clean room	Class 100 US Federal Standard 209c

Data and dimensions may be changed without notice.

WORKING RANGE AND LOAD DIAGRAM

