



IRB 1400

Industrial Robot

MAIN APPLICATIONS

Arc welding
Assembly
Glueing/Sealing
Machine tending
Material handling



Your best performer

The IRB 1400 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 10,000 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 1400 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 1400 INDUSTRIAL ROBOT

SPECIFICATION

Robot	Handling capacity 5 kg	Reach of 5 th axis 1.44 m
Supplementary load on axis 3 on axis 1	18 kg 19 kg	
Number of axes Robot manipulator External devices	6 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 1400
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 AND LOAD DIAGRAM

