



IRB 2400

Industrial Robot

MAIN APPLICATIONS

- Arc welding
- Assembly
- Cleaning
- Cutting/Deburring
- Glueing/Sealing
- Grinding/Polishing
- Machine tending
- Material handling
- Packing



Most popular industrial robot

The IRB 2400 is the world's most popular industrial robot, with a total of 14,000 installations. It comprises a complete family of application optimized robots that maximize the efficiency of your arc welding, process and tending applications.

The IRB 2400 offers you increased production rates, reduced lead times and faster delivery for your manufactured product.

The arc welding model has 1.8 meters (71") reach, 7 kg, (15 lbs.) load capacity, large working range and slim arm and wrist. Other models offer handling capacity of up to 16 kg, (35.2 lbs.), 1.5 - 1.8 meters (59" - 71"), reach excellent motion

control, large load offset, and unlimited motion in axis 6. This means there's an IRB 2400 robot to give you excellent performance in your material handling, tending and process applications. 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.

IRB 2400

Industrial Robot

TECHNICAL DATA, IRB 2400 INDUSTRIAL ROBOT

SPECIFICATIONS

	IRB2400L	IRB2400/10	IRB2400/16
Load offset	92/85 mm	100/100 mm	100/100 mm
Reach	1,8 m	1,5 m	1,5 m
Robot versions	Standard Clean Room Foundry Wash	Standard Clean Room Foundry Plus Wash	Standard Clean Room Foundry Plus Wash
Mounting	Floor and inverted	Floor and inverted	Floor and inverted
Supplementary load			
Upper arm,			
-wrist end	1 kg	2 kg	2 kg
-rear end	10 kg	10 kg	10 kg
Base unit	35 kg	35 kg	35 kg
Number of axes			
Robot manipulator	6		
External devices	6		
Integrated signal supply	23 poles, 50 V DC 10 poles, 250 V AC		
Integrated air supply	Max. 8 bar		
Memory/Instructions			
Program memory	1-5 Mb, 3,000-12,000 instructions		
Storage memory	0.5-5 Mb, 3,000-35,000 instructions		
3.5" diskette drive	1.44 Mb, 15,000 instructions		

PERFORMANCE

Positional repeatability	0.06 mm (average result from ISO test)		
Axis movements	IRB 2400L	IRB 2400/10	IRB 2400/16
Working range			
Positioning			
Axis 1, Rotation	360°	360°	360°
Axis 2, Arm	200°	200°	200°
Axis 3, Arm	125°	125°	125°
Re-orientation			
Axis 4, Wrist	370°	400°	400°
Axis 4, Option	-	Unlimited	Unlimited
Axis 5, Bend	240°	240°	240°
Axis 6, Rotation	800°	800°	800°
Axis 6, Option	Unlimited	Unlimited	Unlimited
Max. speed			
Positioning			
Axis 1, Rotation	150°/s	150°/s	150°/s
Axis 2, Arm	150°/s	150°/s	150°/s
Axis 3, Arm	150°/s	150°/s	150°/s
Re-orientation			
Axis 4, Wrist	360°/s	360°/s	360°/s
Axis 5, Bend	360°/s	360°/s	360°/s
Axis 6, Rotation	450°/s	450°/s	450°/s

ELECTRICAL CONNECTIONS

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

PHYSICAL

	IRB 2400L	IRB 2400/10	IRB 2400/16
Dimensions			
Total height	1,731 mm	1,564 mm	1,564 mm
Manipulator bases	723x600 mm	723x600 mm	723x600 mm
Weight			
Robot	380 kg	380 kg	380 kg

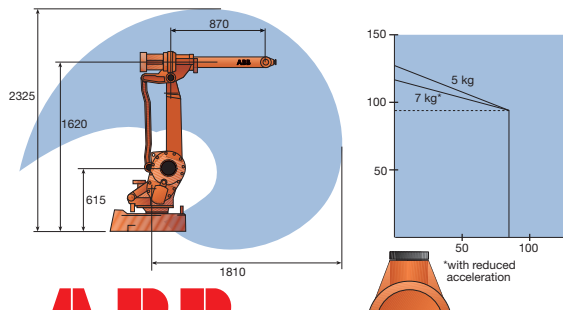
ENVIRONMENT

Ambient temperature			
Basic manipulator in operation	5°C - 45°C (41 - 113°F)		
Relative humidity	Max. 95%		
Degree of protection	IRB2400L	IRB2400/10	IRB2400/16
Standard and Clean Room versions	IP54	IP54	IP54
Foundry or Foundry Plus versions	IP55/67	IP67	IP67
Clean Room	US Federal Standard 209, class 100		
Noise level	Max. 70 dB (A)		
Emmission	EMC/EMI-shielded		

DATA AND DIMENSIONS MAY BE CHANGED WITHOUT NOTICE.

WORKING RANGE AND LOAD DIAGRAM

IRB 2400L



ABB

ABB Inc.
1250 Brown Rd.
Auburn Hills, MI 48326
Phone: 248-391-9000
Fax: 248-391-7390

IRB 2400/10, IRB 2400/16

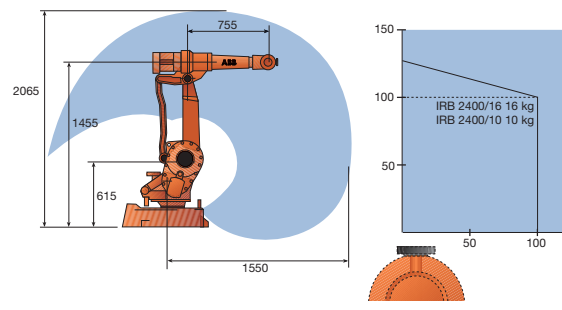


ABB Inc.
201 West Creek Blvd.
Brampton, Ontario L6T 5S6
Phone: 905-460-3000
Fax: 905-460-3001

www.abb.com/robotics
email address: sales.info@us.abb.com