

# TECHNICAL DATA, IRB 2400 INDUSTRIAL ROBOT

## SPECIFICATIONS

Robot version	Handling capacity	Reach	Protection
IRB 2400L	7 kg	1.8 m	Foundry, Clean room
IRB 2400-10	12 kg	1.5 m	FoundryPlus, Clean room
IRB 2400-16	20 kg	1.5 m	FoundryPlus, Clean room

Mounting	Floor and inverted all versions. Wall IRB 2400-10		
Supplementary load	IRB 2400L	IRB 2400-10	IRB 2400-16
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

## 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

Axis movements	IRB 2400L	IRB 2400-10	IRB 2400-16
Max. speed			
Positioning			
Axis 1, Rotation	150°/s	150°/s 90° *	150°/s
Axis 2, Arm	150°/s	150°/s 90° *	150°/s
Axis 3, Arm	150°/s	150°/s 90° *	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

\*) For wall mounted version

## 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

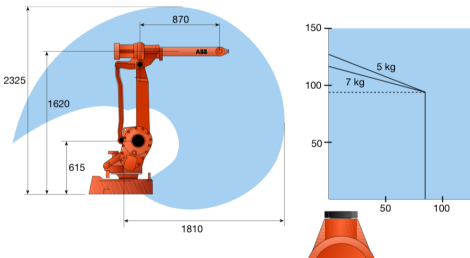
## ENVIRONMENT

Ambient temperature			
Basic manipulator in operation	5°C - 45°C		
Relative humidity	Max. 95%		
Degree of protection	IRB 2400L	IRB 2400-10	IRB 2400-16
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)		
Emission	EMC/EMI-shielded		

DATA AND DIMENSIONS MAY BE CHANGED WITHOUT NOTICE.

## WORKING RANGE AND LOAD DIAGRAM

IRB 2400L



IRB 2400-10, IRB 2400-16

