

ROBOTICS

IRB 6620 Industrial Robot



The IRB 6620 is a flexible and agile robot with a large working envelope. The robot combines four robots in one: floor-standing, tilted or inverted mounted and shelf capability. This compact robot opens up opportunities for new flexible and improved line concepts. Functions that all help saving floor space, creating higher robot density and shorter lines.

The agile large robot

This relatively small and compact robot is easy to install thanks to its low weight. In spite of its small size neither the handling capacity nor the reachability are affected. The robot's compactness and shelf capability also make it ideally suited for applications where robots are placed on different levels. The shelf mounted robot may in this case be tilted to increase space between the two levels.

With the IRB 6620 you get a flexible and cost efficient solution that generates high uptime and lower production costs.

Machine tending

IRB 6620 is suited for machine tending applications such as Die Casting and Injection Molding, that requires minimised extraction time. The main benefit is the huge working range downwards making the robot ideal to mount on top of a machine working downward to save costly floor space. Another benefit in different material handling also saving floor space applications is the IRB 6620 ability to work inverted mounted. In all these configuration the installation will benefit form the very low weight of the robot.

Main Applications

- Machine Tending
- Material Handling
- Spot Welding

Specification

Robot version IRB	Reach (m)	Handling capacity (kg)
IRB 6620	2.2	150*
		on to the upper and 100 kg n to the robot base.
Number of axes	6	
Protection	IP 54, IP 67 with Foundry Plus 2 option	
Mounting	Floor mounted, titled mounted or inverted mounted	
Controller	IRC5 Single cabinet	

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Performance (according to ISO 9283)

	Position repeatability RP (mm)	Path repeatability RT (mm)
IRB 6620	0.10	1.00

Actual values are below the given value.

Technical information

Electrical Connections	
Supply voltage	200 - 600 V, 50/60 Hz
Physical	
Dimensions robot base	1007 x 760 mm
Robot weight	900 kg
Environment	
Ambient temperature for	mechanical unit
During operation	+5° C (41° F) to + 45°C (113°F)
During transportation and storage	-25° C (-13° F) to +55° C (131° F)
For short periods (max 24	l h) up to +70° C (158° F)
Relative humidity	Max. 95%
Safety	Double circuits with supervisions emergency stops and safety functions. 3-position enable device
UL approved	
Emission	EMC/EMI shielded
Option	Foundry Plus
Rigid design with collision Prolonged wrist with smo Large centre hole for weld Easy change of dress pac Weld spatter protection c	both surfaces for dress pack life time ding cables in the foot k

Weld spatter protection on gear sealing 50 kg load capacity on rear upper arm for dress pack

Data and dimensions may be changed without notice.

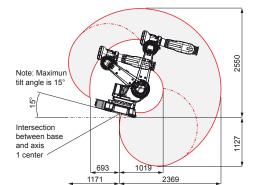
IRB 6620

Axis movement	Working range	Axis max speed
Axis 1 Rotation	+170° to -170°	100°/s
Axis 2 Arm	+140° to -65°	90°/s
Axis 3 Arm	+70° to -180°	90°/s
Axis 4 Wrist	+300° to -300°	150°/s
Axis 5 Bend	+130° to -130°	120°/s
Axis 6 * Turn	+300° to -300°	190°/s

A supervision function prevents overheating in applications with intensive and frequent movements.

IRB 6620, working range

90 858 854 1473 2204



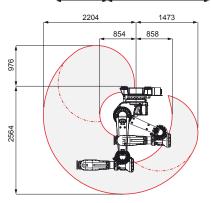


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