

# IRB 2600

## Industrial Robot



The IRB 2600 is the second model in the sharp generation range with enhanced and new capabilities. It is a compact robot with a high payload capacity. The design has been optimized for targeted applications like arc welding, material handling and machine tending. The IRB 2600 is available in three variants, with options for floor, wall, shelf, tilted or inverted mounting onfigurations.

### Sharp accuracy

With the best accuracy in its class, the IRB 2600 can help you increase output with higher process speeds and lower scrap rates, resulting in improved productivity. This is particularly useful in process applications, such as arc welding. The high accuracy is achieved by use of the patented TrueMove™ motion control software.

### Short cycle times

Thanks to the compact and optimized design resulting in a low weight, the IRB 2600 can cut the cycle times of the industry benchmark by up to 25 %. The patented QuickMove™ motion control software ensures that the maximum acceleration achievable is highest in its class, together with high maximum speeds. The benefit is increased production capacity and high productivity.

### Large working range

The combination of large working range and flexible mounting makes it possible to reach machines to be served without interfering with auxiliary equipment. By optimising the robot placement, you'll benefit from higher productivity. Flexible mounting is also very useful when you are simulating the best position for your application.

### Compact design

The IRB 2600 has the same small foot print as IRB 4600. With the IRB 2600 you can create your production cell with reduced floorspace by placing the robot closer to the served machines. The foot size makes it easier for the lower arm to reach straight downwards.

### Best protection available

ABB has the most comprehensive protection program for industrial robots on the market. The IRB 2600 has IP67 as standard and FoundryPlus 2 as option.

## Main applications

### Main applications

Machine tending, material handling, arc welding, cutting, dispensing, assembly, palletizing and packing, measuring.

## Specification

Robot version IRB	Reach (m)	Handling capacity (kg)	Wrist torque (Nm)
IRB 2600-20/1.65	1.65	20	Axis 4 & 5: 36.3 Axis 6: 16.7
IRB 2600-12/1.65	1.65	12	Axis 4 & 5: 21.8 Axis 6: 10.0
IRB 2600-12/1.85	1.85	12	Axis 4 & 5: 21.8 Axis 6: 10.0
Number of axes	6+3 external (up to 36 with MultiMove)		
Protection	Standard IP67; optional FoundryPlus 2		
Mounting	Floor, wall, shelf, tilted, inverted		
Controller	IRC5 Single cabinet, IRC5 Dual cabinet		

## Performance

	Position repeatability RP (mm)	Path repeatability RT (mm):
IRB 2600-20/1.65	0.04	0.13
IRB 2600-12/1.65	0.04	0.14
IRB 2600-12/1.85	0.04	0.16

## Technical information

### Electrical Connections

Supply voltage	200-600 V, 50/60 Hz
Energy consumption	3.4 kW

### Physical

Dimensions robot base	676 x 511 mm
-----------------------	--------------

#### Height

IRB 2600-20/1.65	1382 mm
IRB 2600-12/1.65	1382 mm
IRB 2600-12/1.85	1582 mm

#### Weight

IRB 2600-20/1.65	272 kg
IRB 2600-12/1.65	272 kg
IRB 2600-12/1.85	284 kg

### Environment

Ambient temperature for mechanical unit

During operation	+5°C (41°F) up to +50°C (122°F)
------------------	---------------------------------

During transportation and storage for short periods (max 24h)	-25°C (13°F) up to +55°C (131°F)
---	----------------------------------

For short periods (max 24 h)	up to +70°C (158°F)
------------------------------	---------------------

Relative humidity	Max. 95%
-------------------	----------

Noise level	Max. 69 dB (A)
-------------	----------------

Safety	Double circuits with supervision, emergency stops and safety functions, 3-positions enable device.
--------	--

Emission	EMC/EMI-shielded
----------	------------------

Options	Foundry Plus 2
---------	----------------

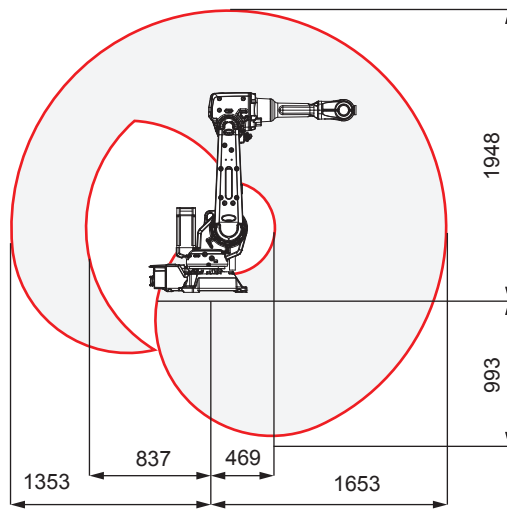
Data and dimensions may be changed without notice.

#### IRB 2600-12/1.65, IRB 2600-20/1.65

Axis movement	Working range	Axis max speed
Axis 1 rotation	+180° to -180°	175°/s
Axis 2 arm	+155° to -95°	175°/s
Axis 3 arm	+75° to -180°	175°/s
Axis 4 rotation	+175° to -175°	360°/s
Axis 5 band	+120° to -120°	360°/s
Axis 6 turn	+400° to -400°	500°/s

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

#### IRB 2600-12/1.65, IRB 2600-20/1.65 working range

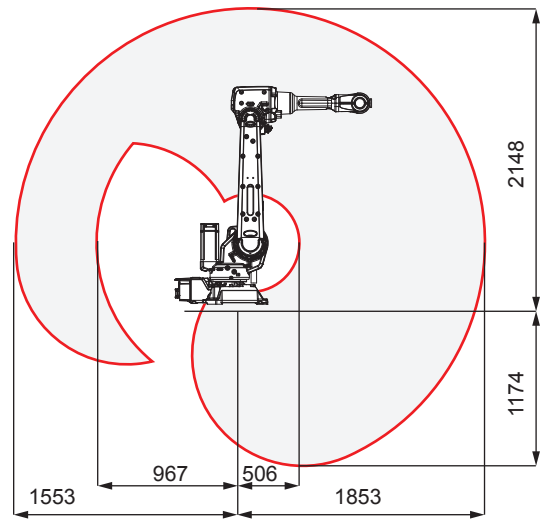


#### IRB 2600-20/1.85

Axis movement	Working range	Axis max speed
Axis 1 rotation	+180° to -180°	175°/s
Axis 2 arm	+155° to -95°	175°/s
Axis 3 arm	+75° to -180°	175°/s
Axis 4 rotation	+175° to -175°	360°/s
Axis 5 band	+120° to -120°	360°/s
Axis 6 turn	+400° to -400°	500°/s

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

#### IRB 2600-20/1.85, working range



---

ABB AB Robotics  
Hydrovägen 10 SE-721 36  
Västerås, Sweden  
Phone: +46 21325000

ABB Engineering (Shanghai) Ltd.  
No. 4528, Kangxin Highway,  
Pudong New District,  
Shanghai, 201319, China  
Phone: +86 21 6105 6666

**[abb.com/robotics](http://abb.com/robotics)**

---

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB.  
Copyright© 2017 ABB  
All rights reserved