

TECHNICAL DATA, IRB 6640 INDUSTRIAL ROBOT

SPECIFICATION

Robot versions IRB	Reach	Handling capacity	Center of gravity	Wrist torque
6640-180	2.55 m	180 kg	300 mm	961 Nm
6640-235	2.55 m	235 kg	300 mm	1324 Nm
6640-205	2.75 m	205 kg	300 mm	1264 Nm
6640-185	2.8 m	185 kg	300 mm	1206 Nm
6640-130	3.2 m	130 kg	300 mm	1037 Nm
6640ID-200	2.55 m	200 kg	300 mm	1262 Nm
6640ID-170	2.75 m	170 kg	300 mm	1190 Nm

Extra loads can be mounted on all variants.
50 kg on upper arm (except ID) and 250 kg on frame of axis 1.

Number of axes:	6
Protection	Complete robot IP 67
Mounting:	Floor mounted

PERFORMANCE

Positions repeatability	0,07 mm		
Path repeatability	0,7 mm		
Axis movements	Working range 6640	Working range 6640ID	Axis max speed 6640
Axis 1 Rotation	+170° to -170°	+170° to -170°	100 - 110°/s
Axis 2 Arm	+85° to -65°	+85° to -65°	90°/s
Axis 3 Arm	+70° to -180°	+70° to -180°	90°/s
Axis 4 Wrist	+300° to -300°	+300° to -300°*	170 - 190°/s
Axis 5 Bend	+120° to -120°	+100° to -100°	120 - 140°/s
Axis 6 Turn	+360° to -360°	+300° to -300°	190 - 235°/s

* For IRB 6640ID axis 4 and 6 together max +300° to -300°

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

ELECTRICAL CONNECTIONS

Supply voltage	200-600 V, 50/60 Hz
Power consumption	ISO-Cube 2.7kW

PHYSICAL

Dimensions robot base	1107 x 720 mm
Weight	1310 - 1405 kg

ENVIRONMENT

Ambient temperature for mechanical unit	
During operation	+5° C (41°F) - +50° C (122°F) *
During transportation and storage for short periods (max 24h)	-25° C (13°F) - +55° C (131°F) up to +70° C (158°F)

Relative humidity	Max 95 %
Noise level	Max 71 dB (A)

Safety	Double circuits with supervision, emergency stops and safety functions, 3-position enable device
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Emission	EMC/EMI-shielded
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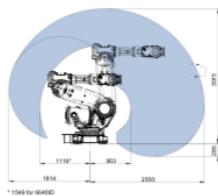
Options	Foundry Plus Foundry Prime Clean Room
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* In a high-speed press tending application, max ambient temperature is 40 °C.

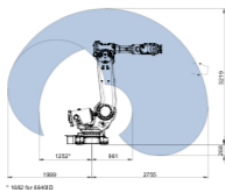
Data and dimensions may be changed without notice

WORKING RANGE AND LOAD DIAGRAM

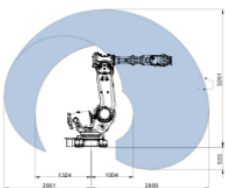
IRB 6640-180/2.55, IRB 6640-235/2.55,
IRB 6640ID-200/2.55



IRB 6640-205/2.75, IRB 6640ID-170/2.75



IRB 6640-185/2.8



IRB 6640-130/3.2

