ROBOTICS PRODUCT RANGE

Creating the flexible, collaborative and connected Factory of the Future



ENGINEERED TO OUTRUN

ABB Robotics is a pioneer in industrial and collaborative robots and advanced digital services.
As one of the world's leading robotics suppliers, we are active in 53 countries and over 100 locations and have shipped over 500,000 robot solutions in a diverse range of industries and applications.
We help our customers to improve flexibility, efficiency, safety and reliability, while moving towards the connected and collaborative factory of the future.

Articulated robots	Payload (kg)	Reach (m)	Pos. rep. (mm)	Mounting	Protection	Axes	Controller
IRB 1010 	1.5	0.37	0.01	Floor, inverted	Std: IP40	6	OmniCore E10 - C30
IRB 1090 	3.5	0.58	0.05	Floor, inverted	Std: IP40	6	OmniCore E10
IRB 1100 	4 4	0.475 0.58	0.01	Any angle	Std: IP40 Option: Clean Room ISO 4 IP67	6	OmniCore E10 - C30 C90XT
IRB 1200 	5 7 7	0.90 0.70 0.90	0.02 0.025 0.025	Any angle	Std: IP40. Option: Foundry Plus 2, IP67, Clean Room ISO 3, Food Grade Lubrication, Hygienic	6	OmniCore E10 - C30 C90XT
IRB 1300 	7 10 11 12	1.4 1.15 0.9 1.4	0.03 0.023 0.02 0.05	Any angle	Std: IP40 Option: IP67, Foundry Plus 2, Cleanroom ISO 4	6	OmniCore E10 - C30 C90XT V250XT V400XT
IRB 1520ID 	4	1.50	0.05	Floor, inverted	Std: IP40	6	OmniCore C30 - C90 V250XT V400XT
IRB 1600 	6 10	1.20/1.45 1.20/ 1.45	0.02 0.02/0.05	Floor, wall, inverted, tilted, shelf	Std: IP54 Option: Foundry Plus 2	6	OmniCore C30 - C90 V250XT V400XT
IRB 1660ID 	4 6	1.55	0.02	Floor, wall, inverted, tilted	Std: IP67 (Axis 4: IP40)	6	OmniCore C30 - C90 V250XT V400XT
IRB 2600 	12/12 20	1.65/1.85 1.65	0.04	Floor, wall, inverted, titled, shelf	Std: IP67, IP54 (axis 4) Option: Foundry Plus 2	6	OmniCore V250XT V400XT
IRB 2600ID 	15 8	1.85 2.00	0.026 0.023	Floor, wall, inverted, titled, shelf	Std: IP67 for base and lower arm. IP54 for upper arm.	6	OmniCore V250XT V400XT
IRB 4400 - IRB 4400L 	60 10	1.96 2.55	0.05 0.05	Floor	Std: IP54 Option: IP67 Foundry Plus 2	6	OmniCore V250XT V400XT
IRB 460 	110	2.40	0.20	Floor	Std: IP67	4	OmniCore V250XT V400XT
IRB 4600 	20/40/ 45/60	2.5/2.55/ 2.05/2.05	0.05/0.06 0.05/0.06	Floor, inverted, tilted	Std: IP67 Option: Foundry Plus 2, Foundry Prime 2 for 60kg Clean Room ISO5	6	OmniCore V250XT V400XT

Articulated robots	Payload (kg)	Reach (m)	Pos. rep. (mm)	Mounting	Protection	Axes	Controller
IRB 660 	180 250	3.15	0.05	Floor	Std: IP67	4	OmniCore V250XT V400XT
IRB 5710 	90 110 LID 70 90	2.7 2.3 2.7 2.3	0.05 0.04	Floor, inverted, tilted (max 20°)	Std: IP67 Option: Foundry Plus	6	OmniCore V250XT V400XT
IRB 5720 	125 180 LID 90 155	3.0 2.6 3.0 2.6	0.05 0.04	Floor, inverted, tilted (max 15°)	Std: IP67 Option: Foundry Plus	6	OmniCore V250XT V400XT
IRB 6650S* 	90 125 200	3.90 3.50* 3.00*	0.15 0.13 0.14	Shelf	Std: IP67, Option: Foundry Plus 2. High pressure steam washable	6	OmniCore V250XT V400XT
IRB 6660 	100 130 205	3.30 3.10 1.90	0.10 0.11 0.07	Floor	Std: IP67 Option: Foundry Plus2	6	OmniCore V250XT V400XT
IRB 6710 	200/210 LID 175	2.95/2.65 2.95 2.65	0.03 - 0.04	Floor	Std: IP67 Option: Foundry Plus 2	6	OmniCore V250XT V400XT
IRB 6720 	170/210/240 LID 150/200 215	3.1/2.8/2.65 3.1/2.8 2.5 2.65	0.04 - 0.06	Floor	Std: IP67 Option: Foundry Plus 2	6	OmniCore V250XT V400XT
IRB 6730 	210/240/270 LID 190/220	3.1/2.9/2.7 3.1/2.9	0.04 - 0.07	Floor	Std: IP67 Option: Foundry Plus 2	6	OmniCore V250XT V400XT
IRB 6740 	240/260/310 LID 220/230/270	3.2/3.0/2.8 3.2/3.0/2.8	0.04 - 0.06	Floor	Std: IP67 Option: Foundry Plus 2	6	OmniCore V250XT V400XT
IRB 6790 	205 235	2.80 2.65	0.05	Floor	Std: IP69 Option: Foundry Prime 3	6	OmniCore V250XT V400XT
IRB 760 	450	3.18	0.05	Floor	Std: IP67	4	OmniCore V400XT
IRB 7710 	500/430/ 360/310 LID 400/390 325/280	2.85/3.10/ 3.30/3.50 2.85/3.10/ 3.30/3.50	0.06 - 0.10	Floor	Std: IP67 Option: Foundry Plus 2	6	OmniCore V400XT
IRB 7720 	620/530/ 510/450 LID 560/480 400/400	2.90/3.10/ 3.30/3.50 2.90/3.10/ 3.30/3.50	0.06 - 0.10	Floor	Std: IP67 Option: Foundry Plus 2	6	OmniCore V400XT

Articulated robots	Payload (kg)	Reach (m)	Pos. rep. (mm)	Mounting	Protection	Axes	Controller
IRB 8700* 	550 800	4.20 3.50	0.08 0.05	Floor	Std: IP67 Option: Foundry Plus 2	6	OmniCore V400XT

*Available with LeanID

Cobot family	Payload (kg)	Reach (m)	Pos. rep. (mm)	Mounting	Protection	Axes	Controller
CRB 15000* GoFa™ 	5 10 12	0.95 1.520 1.270	0.02 0.02 0.02	Any angle, including table mounting, wall mounting, and ceiling mounting	Std: IP54 Std: IP67 Std: IP67	6	OmniCore C30
IRB 14000** YuMi® 	0.50	0.559	0.02	Table	Std: IP30 and Clean Room ISO 5	14	Embedded IRC5
RB 14050* YuMi® 	0.50	0.559	0.02	Any angle	Std: IP30 and Clean Room ISO 6	7	C30

*Functional safety Category 3, PL d | **Functional safety Category B, PL b

SCARA robots	Payload (kg)	Reach (m)	Pos. rep. (mm)	Mounting	Protection	Axes	Controller
IRB 930 	12 22	0.85 - 1.05 1.05	0.01 - 0.02 0.02	Floor	Std: IP30	4	E10 - C30 C90XT
IRB 910INV 	1 (max 3) 3 (max 6)	0.35 0.55	0.01 0.01	Inverted	Std: IP30. Option: Clean Room ISO 1, IP54	4	E10 - C30 C90XT
IRB 920T - IRB 920 	6	0.45 0.55 0.65	0.01 0.02	Floor	Std: IP 30 Option: IP54, Cleanroom ISO 5	4	E10 - C30 C90XT

Parallel robots	Payload (kg)	Reach (m)	Pos. rep. (mm)	Mounting	Protection	Axes	Controller
IRB 360 FlexPicker® 	1 3 6 8	1.13/1.60 1.13 1.60 1.13	0.09/0.03 0.06 0.03 0.05	Inverted	Std: IP54/67/69K, FGL Option: Clean Room, Wash-down, Stainless	4	C30
IRB 365 FlexPicker® 	1.5	1.1	0.05	Inverted	Std: IP54. FGL	4	C30
IRB 390 FlexPacker™ 	10 15	1.3 1.3	0.08 0.01	Inverted	Std: IP67, FGL	5 4	V250XT V400XT

Paint robots	Payload (kg)	Reach (m)	Pos. rep. (mm)	Mounting	Protection	Axes	Controller
IRB 5500-22 						6	
IRB 5500-23 	13	2.97	0.15	Floor, wall, inverted, tilted Elevated	Std: IP66, Ex	7	IRC5P
IRB 5500-25 						7	
IRB 5500-27 	13	2.97	0.15	Wall, floor, inverted	Std: IP66, Ex	7	IRC5P
IRB 5510 	13	2.56	0.15	Floor	Std: IP66, Ex	6	IRC5P
IRB 5350 	7	1.35 Rail travel length: 3-10	0.15	Floor, rail	Std: IP66, Ex	3/4	IRC5P

Compliant with ISO 9283.

Motor units








Version	Weight (kg)	Rated speed (rpm)	Max. dynamic torque (Nm)	Protection
MU 80*	1.4	6000	2.5	IP 40
MU 100	4.4	3300	4.3	IP 67
MU 200	10.3	5000	14.0	IP 67
MU 250	13.2	4750	28.0	IP 67
MU 300	15.0	5000	35.0	IP 67
MU 400	27.0	4700	50.0	IP 67

*Available only for small robots

Track Motion	Total track length min-max (mm)	Carriage travel length min-max (mm)	Additional track length (mm)
IRT 501 FlexTrack (Medium Robot) 	2.154 - 21.154	850 - 19.850	1000
IRT 701 FlexTrack (Large Robot) 	3.132 - 21.132	1.506 - 19.506	500 - 1000

OMNICORE™ POWERING FUTURE-READY, SUSTAINABLE ROBOTS TODAY

The OmniCore platform powers our extensive robot portfolio, providing future-proof, scalable control to automate almost any imageable application.

The OmniCore platform stands out for its capacity to enable motion, force, and sensor applications, all out of a single unified system. OmniCore delivers the full value provided by the ABB Robotics hardware and software portfolio in any combination, offering boundless potential for customer innovation and value creation. With its unprecedented pairing of accuracy and speed to robotics motion control, for efficient operations.

	E10	C30	C90XT	V250XT	V400XT
	Ultra-slim	Compact	Rugged yet compact	Versatile	Large and flexible
					
Applicable robots	Articulated, SCARA	Cobot, Delta, Articulated, SCARA	Cobot, Delta, Articulated, SCARA	Articulated, Delta, Palletizer	Articulated, Delta, Palletizer
Designed to power robots with payloads	Up to 22 kg (IRB 1300, IRB 930)	Up to 22 kg (IRB 1600, IRB 930)	Up to 22 kg (IRB 1600, IRB 930)	Up to 310 kg (IRB 6790)	Up to 800 kg (IRB 8700)
Width × Depth × Height	449 × 338 × 89 mm	449 x 443 x 170 mm	500 × 355 × 520 mm	650 × 480 × 960 mm	650 × 480 × 1140 mm
Applicable industries	Electronics General Industries	Electronics Food & Beverage General Industries	Electronics Food & Beverage General Industries	Automotive General Industries Logistics	Automotive General Industries Logistics
#ADU (additional drive unit) Up to...	0	0	1	3	6

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