
ABB Robotics industrial robots product range

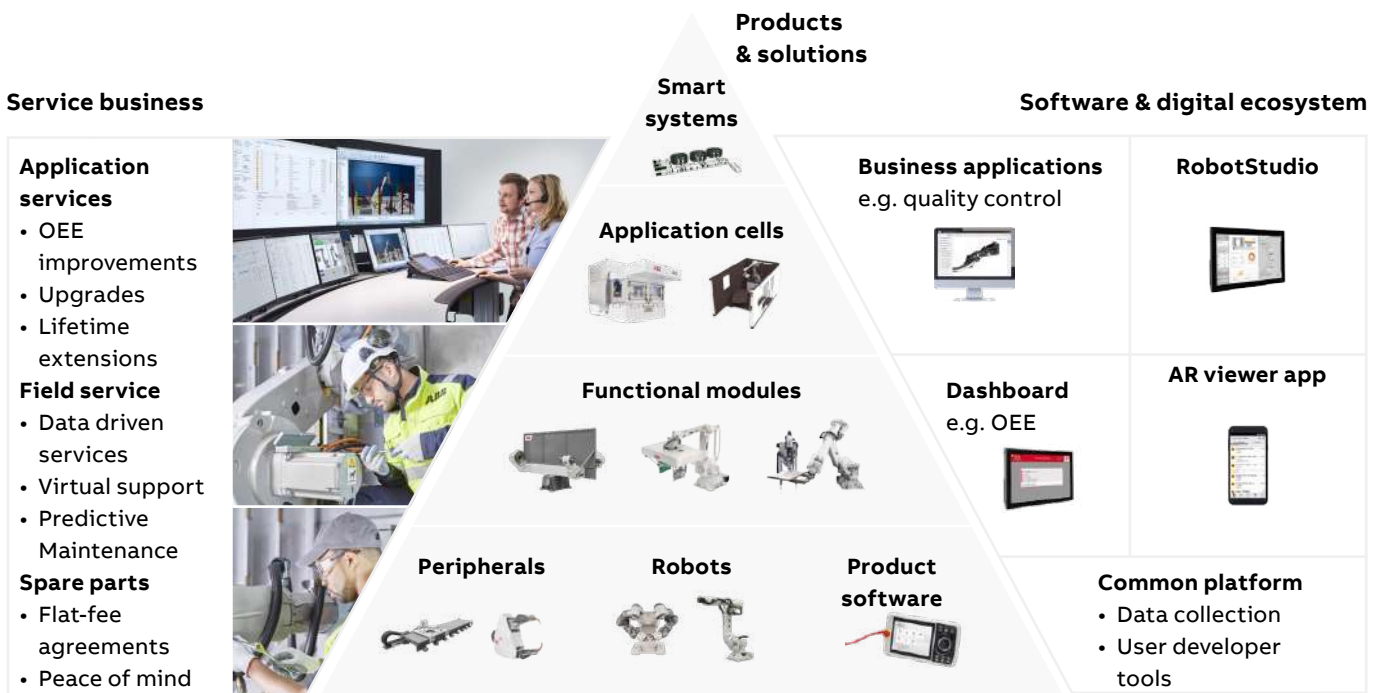


ABB Robotics as one of the world's leading robotics suppliers, is the only company with a comprehensive and integrated portfolio covering robots and Autonomous Mobile Robots solutions, designed and orchestrated by our value-creating software. We help companies of all sizes and sectors – from automotive to electronics and logistics – become more resilient, flexible and efficient. ABB Robotics supports customers in the transition towards the connected and collaborative factory of the future. The business area employs approximately 11,000 people at over 100 locations in approximately 53 countries.

abb.com/robotics

Technology and application leadership

From the robot to the complete smart system



Product range

Wide variety of robots to fit all needs

Articulated robots

Leveraging our profound expertise in industry automation and domain knowledge, ABB excels in the creation of high-performance articulated robots designed to elevate our customers' productivity and quality. Featuring ABB's TrueMove and QuickMove motion control technology, the robots can achieve class-leading repeatability and cycle time.



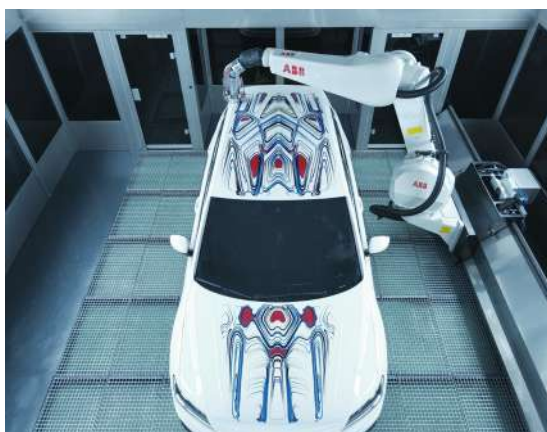
Collaborative robots

ABB's collaborative robots are made for a wide range of tasks, in operations of every size. They're easy to set up, program, operate, and scale. Built by industry-leading experts. And serviced by the broadest service network in the industry. Whatever you need, we're here to support every step of your automation journey.



Paint robots

A complete range of paint robots to help you increase the productivity and quality of your paint shop operations. Designed for automotive interior & exterior painting, tiers, and general small & medium parts painting applications.



Delta robots

ABB's Delta robot portfolio is the leader in state-of-the-art high-speed robotic picking and packing technology for use in the picking, packing, and packaging applications. Our delta robots offer the greatest flexibility in a compact footprint.



SCARA robots

Quick, precise, and reliable, ABB's SCARA robots are ideal for customers requiring rapid cycle times, high precision, and high reliability for material handling, loading & unloading, picking & placing, and small part assembly & testing applications.



Palletizer robots

ABB's 4-axis palletizer robots are the fastest in the market. Designed for shortening cycle times and raising productivity for end-of-line, multi-feed-in/-out, and bag palletizing.



Customer benefits

Our response to the four mega trends (individualized consumer, labor skills shortages, sustainability, and uncertainty) is to create automation solutions that deliver four key customer values: productivity, quality, flexibility, and simplicity, all while doing that in a sustainable way and helping our customers to become more sustainable in their businesses.



Productivity



Flexibility



Simplicity



Quality

Articulated: small robots



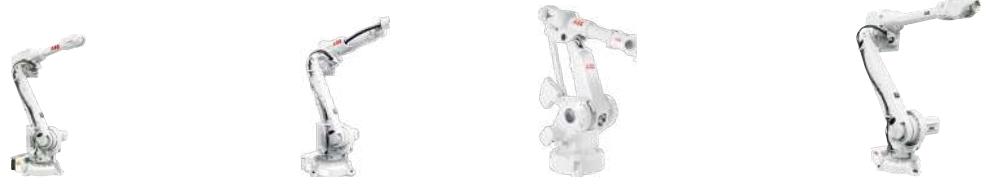
Model Name	IRB 1010	IRB 1090	IRB 1100	IRB 1200	IRB 1300
Payload (kg)	1.5	3.5	4 4	5 7	7 10 11 12
Reach (m)	0.37	0.58	0.475 0.58	0.90 0.70	1.4 1.15 0.9 1.4
Variants	IRB 1010-1.5/0.37	IRB 1090-3.5/0.58	IRB 1100-4/0.475 IRB 1100-4/0.58	IRB 1200-7/0.7 IRB 1200-5/0.9	IRB 1300-11/0.9 IRB 1300-10/1.15 IRB 1300-7/1.4 IRB 1300-12/1.4
Pose rep. (mm)*	0.01	0.05	0.01	0.025 0.02	0.03 0.023 0.02 0.05
Mounting	Floor, inverted	Floor, inverted	Any angle	Any angle	Any angle
Protection and special options	Std: IP40	Std: IP40	Std: IP40 Option: Clean Room ISO 4, IP67	Std: IP40. Option: Foundry Plus 2, IP67, Clean Room ISO 3, Food Grade Lubrication, Hygienic	Std: IP40 Option: IP67, Foundry Plus 2, Clean Room ISO 4
Axes	6	6	6	6	6
Controller	OmniCore	OminiCore	OmniCore	IRC5 OmniCore	OmniCore
Remark	Compliant with ISO 9283. *Pose repeatability				

Articulated: medium robots



Model Name	IRB 1520ID	IRB 1600	IRB 1660ID	IRB 2400	
Payload (kg)	4	6 10	4 6	10 16	
Reach (m)	1.50	1.20/1.45 1.20/ 1.45	1.15	1.15	
Variants	IRB 1520ID-4/1.5	IRB 1600-6/1.2 IRB 1600-6/1.45 IRB 1600-10/1.2 IRB 1600-10/1.45	IRB 1660ID-4/1.55 IRB 1660ID-6/1.55	IRB 2400/10-1.55 IRB 2400/16-1.55	
Pose rep. (mm)*	0.05	0.02 0.02/0.05	0.02	0.03	
Mounting	Floor, inverted	Floor, wall, inverted, tilted, shelf	Floor, wall, inverted, tilted	Floor, inverted, wall for 10kg payload	
Protection and special options	Std: IP40	Std: IP54 Option: Foundry Plus 2	Std: IP67 (Axis 4: IP40)	Std: IP54 Option: Foundry Plus 2	
Axes	6	6	6	6	
Controller	IRC5	IRC5	IRC5	IRC5	
Remark	Compliant with ISO 9283. *Pose repeatability				

Articulated: medium robots



Model Name	IRB 2600	IRB 2600ID	IRB 4400 IRB 4400L	IRB 4600
Payload (kg)	12/12 20	15 8	60 10	20/40/ 45/60
Reach (m)	1.65/1.85 1.65	1.85 2.00	1.96 2.55	2.5/2.55/ 2.05/2.05
Variants	IRB 2600-20/1.65 IRB 2600-12/1.65 IRB 2600-12/1.85	IRB 2600ID-15/1.85 IRB 2600ID-8/2.00	IRB 4400/60-1.96 IRB 4400L/10-2.55	IRB 4600-60/2.05 IRB 4600-45/2.05 IRB 4600-40/2.55 IRB 4600-20/2.50
Pose rep. (mm)*	0.04	0.026 0.023	0.05 0.05	0.05 - 0.06
Mounting	Floor, wall, inverted, tilted, shelf	Floor, wall, inverted, tilted, shelf	Floor	Floor, inverted, tilted
Protection and special options	Std: IP67, IP54 (axis 4) Option: Foundry Plus 2	Std: IP67 for base and lower arm. IP54 for upper arm	Std: IP54 Option: IP67, Foundry Plus 2	Std: IP67 Option: Foundry Plus 2, Foundry Prime 2 for 60kg, Clean Room ISO 5
Axes	6	6	6	6
Controller	IRC5 OmniCore	IRC5	IRC5	IRC5 OmniCore
Remark				

Compliant with ISO 9283.

*Pose repeatability

Articulated: large robots



Model Name	IRB 5710	IRB 5720	IRB 6620	IRB 6650S	IRB 6660
Payload (kg)	70/90/ 90/110	90/125/ 155/180	150	90 125 200	100 130 205
Reach (m)	2.7*/2.3*/ 2.7/2.3	3.0*/3.0 2.6*/2.6	2.20	3.90 3.50* 3.00*	3.30 3.10 1.90
Variants	IRB 5710-110/2.3 IRB 5710-90/2.7 IRB 5710-90/2.3 LID IRB 5710-70/2.7 LID	IRB 5720-180/2.6 IRB 5720-125/3.0 IRB 5720-155/2.6 LID IRB 5720-90/3.0 LID	IRB 6620-150/2.2	IRB 6650S-125/3.5 or option LID IRB 6650S-200/3.0 or option LID IRB 6650S-90/3.9	IRB 6660-130/3.1 IRB 6660-205/1.9 IRB 6660-100/3.3
Pose rep. (mm)*	0.04-0.05	0.04-0.05	0.03	0.13 0.14	0.10 0.11 0.07
Mounting	Floor, tilted, inverted	Floor, tilted, inverted	Floor, tilted, inverted	Shelf	Floor
Protection and special options	Std: IP67 Option: Foundry Plus 2	Std: IP67 Option: Foundry Plus 2	Std: IP54, Option: Foundry Plus 2 with IP67	Std: IP67, Option: Foundry Plus 2. High pressure steam washable	Std: IP67 Option: Foundry Plus 2
Axes	6	6	6	6	6
Controller	OmniCore	OmniCore	IRC5	IRC5 OmniCore	IRC5
Remark	*Available with LeanID	*Available with LeanID		*Available with LeanID	

Compliant with ISO 9283.

*Pose repeatability

Articulated: large robots



Model Name	IRB 6700		IRB 6700 INV
Payload (kg)	150/155/175 200/205/235 245/300		245/300
Reach (m)	3.20*/2.85*/3.05* 2.60*/2.80*/2.65* 3.00*/2.70*		2.90*/2.60*
Variants	IRB 6700-300/2.70 IRB 6700-270/2.70 LID IRB 6700-245/3.00 IRB 6700-220/3.00 LID IRB 6700-235/2.65 IRB 6700-220/2.65 LID IRB 6700-205/2.80 IRB 6700-200/2.80 LID	IRB 6700-200/2.60 IRB 6700-175/2.60 LID IRB 6700-175/3.05 IRB 6700-155/3.05 LID IRB 6700-155/2.85 IRB 6700-140/2.85 LID IRB 6700-150/3.20 IRB 6700-145/3.20 LID	IRB 6700I-300/2.60 IRB 6700I-270/2.60 LID IRB 6700I-245/2.90 IRB 6700I-210/2.90 LID
Pose rep. (mm)*	0.06/0.08/0.05 0.05/0.05/0.05 0.05/0.06		0.05/0.10
Mounting	Floor		Inverted
Protection and special options	Std: IP67 Option: Foundry Plus 2		Std: IP67 Option: Foundry Plus 2
Axes	6		6
Controller	IRC5/OmniCore		IRC5/OmniCore
Remark	*Available with LeanID		*Available with LeanID
Compliant with ISO 9283.			*Pose repeatability

Articulated: large robots



Model Name	IRB 6710	IRB 6720	IRB 6730	IRB 6740
Payload (kg)	175~210	150~240	190~270	220~310
Reach (m)	2.66~2.95	2.5~3.1	2.7~3.1	2.8~3.2
Variants	IRB 6710-210/2.65 IRB 6710-200/2.95 IRB 6710-175/2.65 LID IRB 6710-175/2.95 LID	IRB 6720-240/2.65 IRB 6720-210/2.8 IRB 6720-170/3.1 IRB 6720-215/2.5 LID IRB 6720-215/2.65 LID IRB 6720-200/2.8 LID IRB 6720-150/3.1 LID	IRB 6730-270/2.7 IRB 6730-240/2.9 IRB 6730-210/3.1 IRB 6730-220/2.9 LID IRB 6730-190/3.1 LID	IRB 6740-310/2.8 IRB 6740-260/3.0 IRB 6740-240/3.2 IRB 6740-270/2.8 LID IRB 6740-230/3.0 LID IRB 6740-220/3.2 LID
Pose rep. (mm)*	0.03/0.04	0.04/0.05/0.06	0.04/0.07	0.04/0.05/0.06
Mounting	Floor	Floor	Floor	Floor
Protection and special options	Std: IP67 Option: Foundry Plus 2	Std: IP67 Option: Foundry Plus 2	Std: IP67 Option: Foundry Plus 2	Std: IP67 Option: Foundry Plus 2
Axes	6	6	6	6
Controller	OmniCore	OmniCore	OmniCore	OmniCore
Remark				
Compliant with ISO 9283.				*Pose repeatability

Articulated: large robots



Model Name	IRB 6790	IRB 7600	IRB 8700
Payload (kg)	205/235	150/325/ 340/400/ 500	550 800
Reach (m)	2.80/2.65	3.50/3.10*/ 2.80*/2.55*/ 2.55	4.20* 3.50*
Variants	IRB 6790-235/2.65 IRB 6790-205/2.80	IRB 7600-400/2.55 or option LID IRB 7600-340/2.8 or option LID IRB 7600-150/3.5 IRB 7600-500/2.55 IRB 7600-325/3.1 or option LID	IRB 8700-800/3.50 or option LID IRB 8700-550/4.20 or option LID
Pose rep. (mm)*	0.05	0.19/0.10 0.27/0.19 0.08	0.08 0.05
Mounting	Floor	Floor	Floor
Protection and special options	Std: IP69, Foundry Prime 3	Std: IP67 Option: Foundry Plus 2	Std: IP67 Option: Foundry Plus 2
Axes	6	6	6
Controller	IRC5	IRC5	IRC5
Remark		*Available with LeanID	*Available with LeanID

Compliant with ISO 9283.

*Pose repeatability

Cobots



Model Name	CRB 15000 GoFa™	CRB 1100 SWIFTI™	CRB 1300 SWIFTI™	IRB 14000 YuMi®	IRB 14050 YuMi®
Payload (kg)	5/10/12	4 4	7/10/11	0.50	0.50
Reach (m)	0.95 (1.05TCP) 1.27 (1.37TCP) 1.52 (1.62TCP)	0.475 0.58	1.4/1.15/0.9	0.559	0.559
Variants	CRB 15000-5/0.95 CRB 15000-12/1.27 CRB 15000-10/1.52	CRB 1100-4/0.475 CRB 1100-4/0.58	CRB 1300-11/0.9 CRB 1300-10/1.15 CRB 1300-7/1.4	IRB 14000-0.5/0.5	IRB 14050-0.5/0.5
Pose rep. (mm)*	0.02	0.01	0.03/0.023/0.02	0.02	0.02
Mounting	Any angle	Any angle	Any angle	Table	Any angle
Protection and special options	Std: IP54 for GoFa 5, IP67 for Gofa 10 and 12, Clean Room ISO 4	Std: IP40	Std: IP40	Std: IP30 and Clean Room ISO 5	Std: IP30 and Clean Room ISO 6
Axes	6	6	6	14	7
Controller	OmniCore	OmniCore	OmniCore	Embedded IRC5	OmniCore
Remark	Functional safety Category 3, PL d	Functional safety Category 3, PL d	Functional safety Category 3, PL d	Functional safety Category B, PL b	Functional safety Category 3, PL d

Compliant with ISO 9283.

*Pose repeatability

Parallel / Delta robots



Model Name	IRB 390 FlexPacker®		IRB 360 FlexPicker®		IRB 365 FlexPicker®
Payload (kg)	10	15	1	3	1.5
			6	8	
Reach (m)	1.3	1.3	1.13/1.60	1.13	0.8
			1.60	1.13	1.1
					1.3
Variants	IRB 390-15/1300	IRB 390-10/1300	IRB 360-1/1130	IRB 360-1/1600	IRB 365-1.5/1100
			IRB 360-3/1130	IRB 360-8/1130	IRB 365-1.5/1300
				IRB 360-6/1600	IRB 365-1.5/800
Pose rep. (mm)*	0.08	0.01	0.09/0.03	0.03	0.05
			0.06	0.05	
Mounting	Inverted		Inverted		Inverted
Protection and special options	Std: IP67, FGL		Std: IP54/67/69K, FGL		Std: IP54, FGL
			Option: Clean Room, Wash-down, Stainless		
Axes	5	4	4		4
Controller	IRC5		IRC5 or OmniCore		OmniCore
Remark					

Compliant with ISO 9283.

*Pose repeatability

SCARA robots



Model Name	IRB 910INV		IRB 920/IRB 920T		IRB 930
Payload (kg)	1 (max 3)	3 (max 6)	6		12
					12
					22
Reach (m)	0.35	0.55	0.45	0.55	0.85
			0.65		1.05
					1.05
Variants	IRB 910INV-3/0.35		IRB 920-6/0.55		IRB 930-12/0.85
	IRB 910INV-6/0.55		IRB 920-6/0.65		IRB 930-12/1.05
			IRB 920T-6/0.45		IRB 930-22/1.05
			IRB 920T-6/0.55		
			IRB 920T-6/0.65		
Pose rep. (mm)*	0.01	0.01	0.01-0.02		0.01
					0.01
					0.02
Mounting	Inverted		Floor		Floor
Protection and special options	Std: IP30.		Std: IP 30		Std: IP30
	Option: Clean Room ISO 1, IP54		Option: IP54, Clean Room ISO 5		
Axes	4		4		4
Controller	OmniCore		OmniCore		OmniCore
Remark					

Compliant with ISO 9283.

*Pose repeatability

Paint robots



Model Name	IRB 52	IRB 5500	IRB 5510	IRB 5350
Payload (kg)	7	13	13	7
Reach (m)	1.20/1.45	2.97	2.56	1.35 Rail travel length: 3-10
Variants	IRB 52/1.2 IRB 52/1.45	IRB 5500-22. 6 axes IRB 5500-23. 7 axes floor IRB 5500-25. 7 axes elevated IRB 5500-27. 7 axes rotative	6 axes	3 axes 4 axes
Pose rep. (mm)*	0.15	0.15	0.15	0.15
Mounting	Floor, wall, inverted, tilted	Floor, wall, inverted, tilted Elevated	Floor	Floor, rail
Protection and special options	Std: IP66, Ex	Std: IP66, Ex	Std: IP66, Ex	Std: IP66, Ex
Axes	6	6 7	6	3 4
Controller	IRC5P	IRC5P	IRC5P	IRC5P
Remark				

Compliant with ISO 9283.

*Pose repeatability

Palletizing robots







Model Name	IRB 460	IRB 660	IRB 760
Payload (kg)	110	180 250	450
Reach (m)	2.40	3.15	3.18
Variants	IRB 460-110/2.4	IRB 660-180/3.15 IRB 660-250/3.15	IRB 760-450/3.2 IRB 760-445/3.2
Pose rep. (mm)*	0.20	0.05	0.05
Mounting	Floor	Floor	Floor
Protection and special options	Std: IP67	Std: IP67	Std: IP67
Axes	4	4	4
Controller	IRC5 OmniCore	IRC5 OmniCore	IRC5 OmniCore
Remark			

Compliant with ISO 9283.

*Pose repeatability

OmniCore™ robot controllers offer faster, scalable and more energy efficient manufacturing

	E10 Ultra-slim	C30 Compact	C90XT Rugged yet compact	V250XT Versatile
	Applicable robots		Applicable robots	
	 Articulated  SCARA	 Cobot  Delta  Articulated  SCARA	 Cobot  Delta  Articulated  SCARA	 Articulated  Delta  Palletizer
	Designed to power robots with payloads		Designed to power robots with payloads	
	Up to 12 kg (IRB 1300, IRB 920)	Up to 12 kg (IRB 1600)	Up to 12 kg (IRB 1600)	Up to 300 kg (IRB 6700)
	Width x Depth x Height		Width x Depth x Height	
	449 x 338 x 89 mm	449 x 443 x 170 mm	500 x 355 x 520 mm	650 x 480 x 960 mm
	Applicable industries		Applicable industries	
	Electronics General Industries	Electronics Food & Beverage General Industries	Electronics Food & Beverage General Industries	Automotive Food & Beverage General Industries Logistics



IRB 1090 education robot is designed to up-skill students for the future of work



IRB 1010 smallest industrial robot with class-leading payload and accuracy

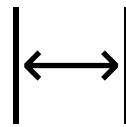


Sustainability

Up to
20%

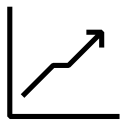
lower power consumption and energy saving.

*Compared with IRC5



1000+

scalable functions, e.g. RobotWare, SafeMove, TrueMove, QuickMove, stop position simulation, Externally Guided Motion, Wizard Easy Programming, Robot Control Mate, IoT gateway, and vision.



Productivity

Featuring ABB's TrueMove and QuickMove motion control technology, the robots can achieve class-leading repeatability and cycle time.



Next-level digital

Cyber-secure out-of-box connectivity enables higher uptime and better productivity.



IRB 365 FlexPicker® five axis Delta robot fastest for lightweight product picking



IRB 6710, IRB 6720, IRB 6730, IRB 6740
22 large, high-performance robot variants for greater choice

Key innovations

Expertise and support you can rely on

ABB Robotics is a pioneer in robots, software and advanced digital services, and has supplied many breakthrough innovations since introducing the world's first micro-processor-controlled robot in 1974.

- **1974** IRB 6, the world's first micro-processor-controlled robot
- **1979** IRB 60 the world's first electrical robot for spot welding
- **1983** First joystick FlexPendant for robot control
- **1986** IRB 2000, first robot driven by AC motors
- **1994** Dynamic motion control with TrueMove and QuickMove
- **1995** The world's highest speed delta robot
- **1998** RobotStudio, first offline programming tool
- **2001** IRB 7600, first industrial robot to handle 500 kg
- **2004** MultiMove, coordinated multiple (up to four) robot control
- **2005** Remote Services, a decade before the term 'internet of things' was known
- **2010** IRB 460 - The fastest palletizing robot in the world
- **2015** YuMi, the world's first truly collaborative robot; ABB Connected Services
- **2018** OmniCore; world's first connected paint atomizer
- **2021** GoFa and SWIFTI
- **2022** IRB 5710, IRB 5720, IRB 365, IRB 1010, IRB 920
- **2023** IRB 6710~IRB 6740, GoFa 10, GoFa 12, OptiFact



Strongly positioned to benefit from market dynamics

Broadest portfolio amongst our peers

As the only player with both a strong robotics and automatic portfolio in-house, we are in an ideal position to provide our customers with flexible automation solutions from individual machines to whole plants. We have a balanced portfolio of products, cells and solutions, systems and services. Integrated solutions like machine-centric robotics and digital services open new high growth applications.

Innovation strength

We are expanding our portfolio of products (e.g. robots and controllers), cells and systems (e.g. flexible manufacturing systems). We focus especially on our software and digital portfolio. We already monitor ~9000 installed robots remotely. We have established incubators to accelerate the developments in artificial intelligence, digital factory automation, collaborative robotics and healthcare.

A true global player

We are very well positioned to serve our customers globally. We have local sales, service and application engineers in all relevant markets, and we produce robots in Sweden, China and the USA. With six R&D centers in Europe, Asia and the USA, we can tap into talent pools across the globe and do research close to all key markets.

Applied domain expertise

Deep domain know-how is the base for the development of value creating solutions to serve our customers. Through the alignment of our organization with customer segments, we are best positioned to serve their specific needs.






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