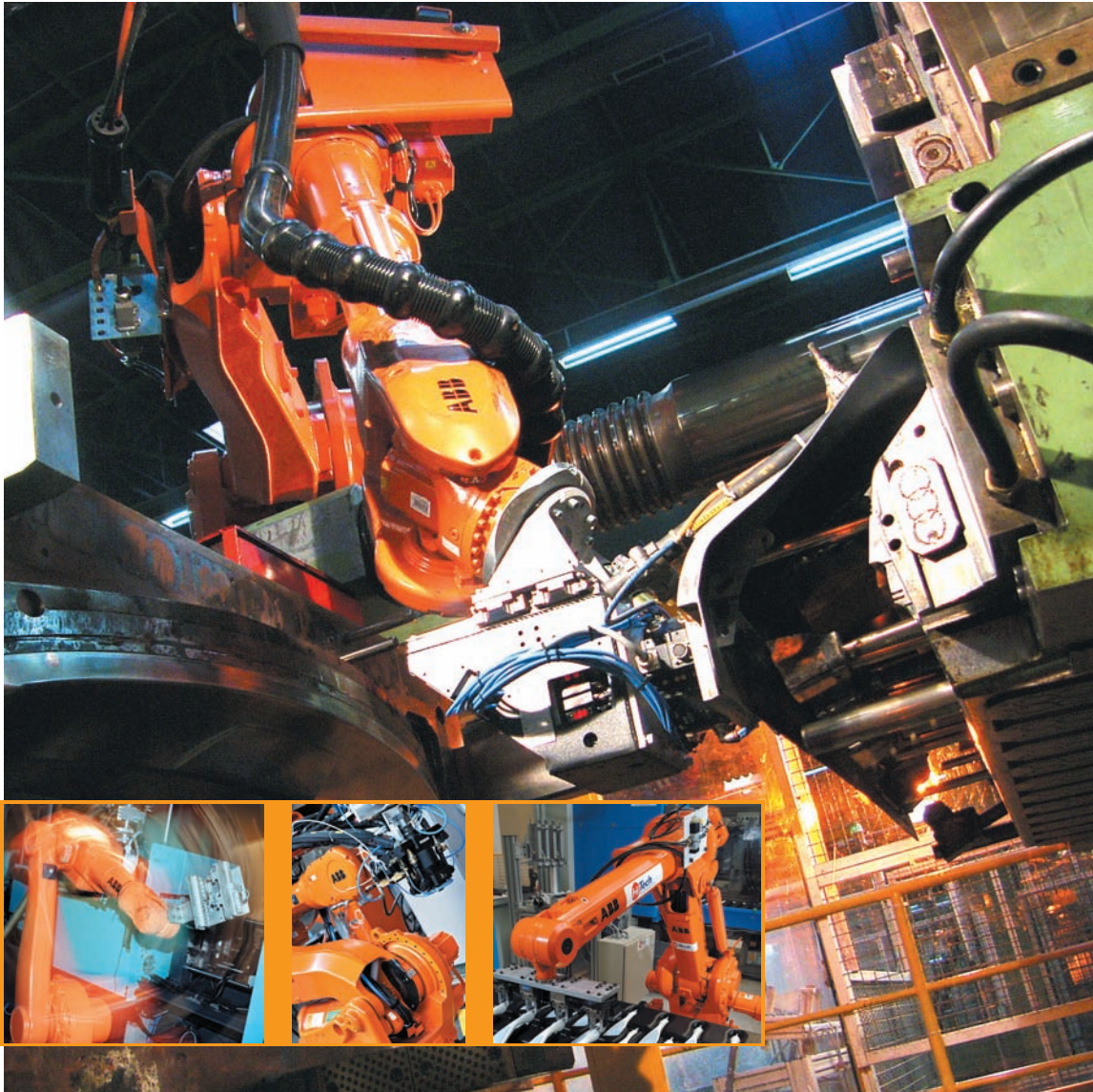


# Plastics

## 6-axis Robots for Increased Productivity



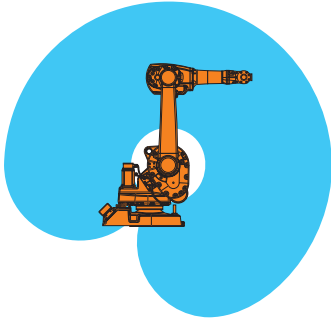
The **heart** of Robotics



## Increase your productivity through flexibility

ABB 6-axis robots give you a unique advantage – total flexibility. By post-processing your plastic parts while your injection moulding machine is producing the next part, you can do more in the same amount of time. This improved productivity comes with the flexibility to compete with increased agility, enabling you to cope with shorter products life cycles and tighter operating margins.

At ABB we're convinced that our state-of-the-art robots will become the benchmark in addressing the disparate demands of industrial and consumer goods. Catering to every conceivable need, these machines perform a variety of tasks during the production cycle. This means you can look forward to a far more flexible and cost-efficient operation.



\*The reach of the robot is measured from the centre point of axis 1 (foot) to the centre point of axis 5 (wrist) according to ISO 9946.

## Floor mounted robots

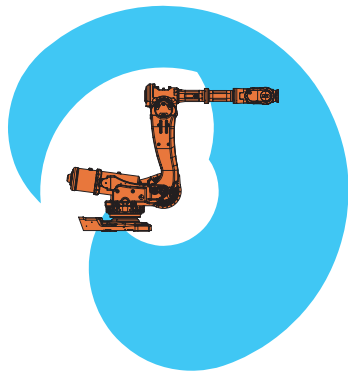
Robot	Reach* (m)	Load (kg)	Clamping Force (Tonnes)	Cutting Applications	Dispensing/Gluing
IRB 140, IRB 140T	0.81	5	up to 100		●
IRB 1600-5/1.2	1.20	5	100-250		●
IRB 1600-7/1.2	1.20	7	100-250		●
IRB 1600-5/1.45	1.45	5	100-250		●
IRB 1600-7/1.45	1.45	7	100-250		●
IRB 2400-10	1.50	10	200-350	●	●
IRB 2400-16	1.50	16	200-350	●	●
IRB 2400L 5	1.80	5	300-450		
IRB 2400L 7	1.80	7	300-450		
IRB 4400-45	1.95	45	400-750	●	●
IRB 4400-60	1.95	60	400-750	●	●
IRB 4400L-30	2.43	30	400-750	●	●
IRB 4400L-10	2.55	10	400-750		●
IRB 6600-175/2.55	2.55	175	750-2000	●	
IRB 6600-225/2.55	2.55	225	750-2000		
IRB 6600-175/2.8	2.80	175	750-2000		
IRB 6600 ID-185/2.55	2.55	185	750-2700		
IRB 6620-150/2.2	2.20	150	750-2000	●	●
IRB 6650-125/3.2	3.20	125	750-2700	●	
IRB 6650-200/2.75	2.75	200	750-2700		
IRB 6650 ID-170/2.75	2.75	170	750-2700		
IRB 7600-400/2.55	2.55	400			
IRB 7600-500/2.55	2.55	500			
IRB 7600-340/2.8	2.80	340			
IRB 7600-150/3.50	3.50	150			





## Shelf mounted robots

Robot	Reach* (m)	Reach below foot** (m)	Load (kg)	Clamping Force (Tonnes)
IRB 1600S-5/1.2	1.20	0.455	5	100-250
IRB 1600S-7/1.2	1.20	0.455	7	100-250
IRB 1600S-5/1.45	1.45	0.720	5	100-250
IRB 1600S-7/1.45	1.45	0.720	7	100-250
IRB 4450S	2.40	1.091	30	600-1000
IRB 6620S	2.20	0.976	150	600-1000
IRB 6650S-200/3.0	3.00	1.732	200	750-2700
IRB 6650S-125/3.5	3.50	2.177	125	750-2700
IRB 6650S-90/3.9	3.93	2.624	90	2700-5000



\*\* The reach below foot is measured from the centre point of axis 1 (foot) to the centre point of axis 5 (wrist) according to ISO 9946.

### Increased Flexibility with IRC5 Robot Controller

The IRC5 robot controller can control up to four robots at once, allowing for independent or coordinated control, to cut cycle time, increase flexibility and improve profitability. The IRC5 controller can control a wide range of industrial motions, faster, more flexibly and with more uptime than any comparable controller.

### Euromap - Plug and Play for the Plastics Industry

The ABB Euromap/SPI kit connects the robot with the injection moulding machine and is used for all the hand-shaking signals between the two. This is a true plug and play solution based on international standards and safety regulations. E67, E12 and SPI Interface.

### Optimize Speed and Path Accuracy

The ABB Dynamic Model with QuickMove and TrueMove optimizes robot path accuracy, acceleration and speed, cuts programming and cycle time.

### Off-line programming

RobotStudio lets you build and simulate cells on your PC, but also prepare programming to reduce installation and changeover time. In short, run the entire production on your computer before you go live.

### Easy Programming - Easy Operation

RobotWare Plastics Mould is a user-friendly interface designed specifically for the plastics industry, and injection moulders who have installed six-axis robots with this unique software are already seeing the benefits. Now you can look forward to greater efficiency in terms of installation, set-up and actual production. With the ABB FlexPendant's colorful screen, logical and simple visual language and graphical user interface programming is easy, operation is easy and information access is easy.



## The heart of Robotics

Over the last three decades, ABB has remained committed to building and strengthening relationships with customers, integrators and partners throughout the world.



Underpinning this commitment is our belief that at the heart of innovative robotics lie mutual trust and confidence. This belief has helped us to achieve clear leadership in a demanding field. Today, in the automotive, metal fabrication, foundry, consumer and plastics industries our solutions help to pave the way for optimised production. Across the world, our global network of sales and service centres, and our carefully selected partners, make ABB's products, systems and services available wherever they are needed.

Welcome to ABB – The heart of Robotics