IRB 8700 THE LARGEST ROBOT ABB HAS EVER MADE.

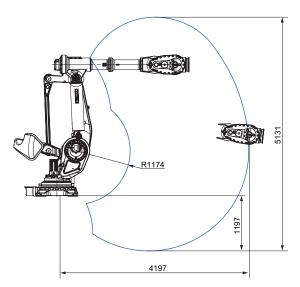
In designing the IRB 8700, the focus was on delivering a very reliable robot with a low total cost of ownership. Through a combination of robust design elements, including simpler parts configurations where possible, ABB Robotics applied decades of engineering experience to combine the high performance that customers require with low overall maintenance needs.

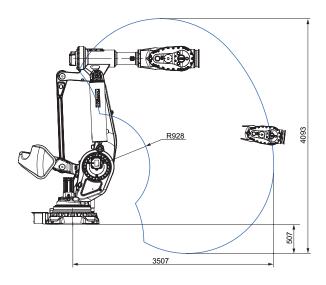
IN ADDITION, THE IRB 8700 DELIVERS 25% FASTER SPEEDS THAN ANY OTHER ROBOT IN THIS CLASS SIZE.

Features and benefits:

- » High payloads up to 1000 kg with the wrist down
- » 25% faster speeds than other robots in this size class
- » Highly reliable with simplified design and Foundry Plus 2 protection standard
- » Built around LeanID for reduced wear on dress packs and ease of simulation
- » Built using non-hazardous materials







SPECIFICATION							
ROBOT VERSIONS	REACH	HANDLING Capacity	CENTER Of Gravity	WRIST TORQUE			
Without Lean ID							
IRB 8700-800/3.50	3.50 m	800 kg	460 mm	6043 Nm			
IRB 8700-550/4.20	4.20 m	550 kg	460 mm	5279 Nm			
With Lean ID							
IRB 8700-800/3.50	3.50 m	630 kg	460 mm	6043 Nm			
IRB 8700-550/4.20	4.20 m	475 kg	460 mm	5279 Nm			
Extra loads can be mou 50 kg on upper arm a							
Number of axes		6					
Protection	Complete rob	Complete robot IP67					
Mounting	Floor mounte	Floor mounted					
IRC5 Controller variants		Single cabine	Single cabinet				

ELECTRICAL C	ONNECTIONS
Supply voltage	200-600 V, 50/60 Hz
Energy consumption ISO-Cube	3.93 kW
PHYSICAL	
Dimensions robot base	1175 x 920 mm
Weight	4527 - 4575 kg

PERFORMANCE		
	IRB 8700-800/3.50	IRB 8700-550/4.20
Pos. repeatability RP	0.05 mm	0.08 mm
Path repeatability RT	0.07 mm	0.14 mm

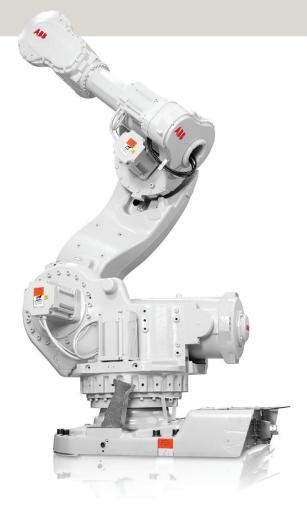
MAXIMUM AXI2 25EED									
	AXIS 1	AXIS 2	AXIS 3	AXIS 4	AXIS 5	AXIS 6			
IRB 8700-800/3.50	75°/s	60°/s	60°/s	85°/s	85°/s	115°/s			
IRB 8700-550/4.20	75°/s	60°/s	60°/s	85°/s	85°/s	115°/s			

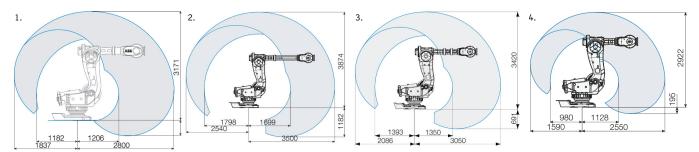
IRB 7600

A NEW WORLD OF POSSIBILITIES OPENS UP WITH ABB'S POWER ROBOT FAMILY.

It comes in several variants, up to 630 kg handling capacities. The IRB 7600 is ideal for weighty applications, regardless of industry. Characteristics such as high available torque and inertia capability, rigid design and powerful acceleration have earned this market leader its "Power Robot" title.

- » Reliable High production up time
- » Security A safe investment
- » Fast Short cycle times
- » Accurate Consistent parts quality
- » Strong Maximized utilization
- » Robust Harsh production environment
- » Versatile Flexible integration and production





1. IRB 7600-340/2.8 | 2. IRB 7600-150/3.5 | 3. IRB 7600-325/3.1 | 4. IRB 7600-400/2.55/IRB 7600-500/2.55

SPECIFICATION					PERFORMA	PERFORMANCE					
ROBOT VERSIONS	REACH	HANDLING	CENTER	MAX WRIST	AXIS WORKIN	G RANGE					
IRB		CAPACITY	OF GRAVITY	TORQUE	Axis 1 Rotation	+180° to	-180°				
IRB 7600-500	2.55 m	500 kg	360 mm	3010 Nm	Axis 2 Arm	+85° to	+85° to -60°				
IRB 7600-400	2.55 m	400 kg	0 kg 512 mm 3010 Nm +60° to					-180°			
IRB 7600-340	2.8 m	340 kg	360 mm	2750 Nm	Axis 4 Wrist	+300° to	+300° to -300°				
IRB 7600-325	3.1 m	325 kg	360 mm	2680 Nm	Axis 5 Bend	+100° to	-100°				
IRB 7600-150	3.5 m	150 kg	360 mm	1880 Nm	Axis 6 Turn	+360° to	-360°				
(IRB 7600-150 load	ed with 100 kg	· ·			AXIS MAX SP	EED					
Extra loads can be n			325/500 KG	400 KG	340 KG	150 KG					
50 kg on upper arm	and 550 kg on	frame of axis	1.		Axis 1	75°/s	75°/s	75°/s	100°/s		
Number of axes		6			Axis 2	50°/s	60°/s	60°/s	60°/s		
IRC5 Controller varia	nts	Single cabi	inet, PMC		Axis 3 55°/s 60°/s 60°/s			60°/s			
ENVIDONMENT	FNU/DONNESST					100°/s	100°/s	100°/s	100°/s		
	ENVIRONMENT				Axis 5	100°/s	100°/s	100°/s	100°/s		
AMBIENT TEMPERATU	JRE FOR MECHA				Axis 6	160°/s	160°/s	160°/s	190°/s		
During operation			(41 °F) up to +5		ELECTRICAL CONNECTIONS						
During transportatio short periods (max 2	_		C (13 °F) up to + F) up to +70 °C		Supply voltag	Supply voltage 200-600 V,50/			′60 Hz		
Relative humidity		Max 9	5%		PHYSICAL						
Degree of protection					Dimensions	12	1206.5 x 791 mm				
Manipulator		Standa Plus 2	ard: IP67, Optic	n: Foundry	Weight	2.400-2.450 kg) kg		
Controller		Air coo	oled								
Noise level		Max 7	3 dB (A)								
Safety		emerg	e circuits with a gency stops and ons, 3-position a.	l safety							
Emission		EMC/I	EMI-shielded								

IRB 6700

THE IRB 6700 FAMILY OF ROBOTS IS A NATURAL EVOLUTION FOLLOWING 40 YEARS OF LARGE ROBOT HERITAGE AT ABB.

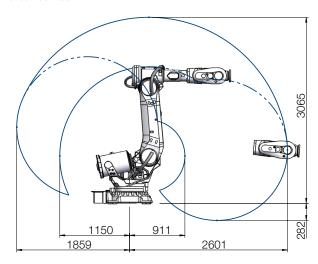
This 7th generation of large ABB robots features a multitude of next generation improvements derived from intimate customer relationships and exhaustive engineering studies. The IRB 6700 is more robust than its predecessor and maintenance has been simplified, making it the highest performing robot for the lowest total cost of ownership in the 150-300 kg class.

Features and benefits:

- » Increased service intervals and decreased service times
- » Longer uptime-mean time between failures: 400,000 hours
- » Available with Lean ID for cost, effectively increasing dress pack lifetimes
- » More robust with a rigid structure and a new generation of motors and compact gearboxes
- » Increased speed and shorter cycle times—on average 5 percent faster
- » Improved accuracy and higher payloads
- » Built to operate in the harshest environments—available with Foundry Plus 2 package
- » 15% lower power consumption



IRB 6700-200/2.60



SPECIFICATION WITHOUT LEANID					SPECIFICATI	ION WITH LE <i>i</i>	ANID			
ROBOT Versions	REACH	HANDLING Capacity	CENTER Of Gravity	WRIST Torque	ROBOT Versions	REACH	HANDLING Capacity	CENTER Of Gravity	WRIST Torque	
IRB					IRB					
6700-200	2.60 m	200 kg	300 mm	981 Nm	6700-200	2.60 m	175 kg	300 mm	981 Nm	
6700-155	2.85 m	155 kg	300 mm	927 Nm	6700-155	2.85 m	140 kg	300 mm	927 Nm	
6700-235	2.65 m	235 kg	300 mm	1324 Nm	6700-235	2.65 m	220 kg	300 mm	1324 Nm	
6700-205	2.80 m	205 kg	300 mm	1263 Nm	6700-205	2.80 m	200 kg	300 mm	1263 Nm	
6700-175	3.05 m	175 kg	300 mm	1179 Nm	6700-175	3.05 m	155 kg	300 mm	1179 Nm	
6700-150	3.20 m	150 kg	300 mm	1135 Nm	6700-150	3.20 m	145 kg	300 mm	1135 Nm	
6700-300	2.70 m	300 kg	300 mm	1825 Nm	6700-300	2.70 m	270 kg	300 mm	1825 Nm	
6700-245	3.00 m	245 kg	300 mm	1693 Nm	6700-245	3.00 m	220 kg	300 mm	1693 Nm	
Extra loads car 50 kg on uppe			_		Extra loads can be mounted on all variants 50 kg on upper arm and 250 kg on frame of axis 1.					
Number of axe	S	6			Number of axe	S	6	6		
Protection		Complete re	obot IP67		Protection Complete robot IP67					
Mounting	Mounting Floor mounted				Mounting Floor mounted			nted		
IRC5 Controller	C5 Controller variants Single cabinet, panel mounted controller		ınted	IRC5 Controller variants Single cabinet, panel m controller			net, panel mou	ınted		
DEREGRMAN	ICE									

PERFORMANCE										
	6700-200	6700-155	6700-235	6700-245	6700-205	6700-175	6700-150	6700-300		
Pos. repeatability RP (mm)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10		
Path repeatability RT (mm)	0.06	0.12	0.08	0.12	0.08	0.12	0.14	0.07		