ABB IRB1520ID Arc Welder datasheet

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Robotics

IRB 1520ID The Lean Arc Welder

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Dedicated arc welding robot

With IRB 1520ID (Integrated Dressing), the hose package is totally integrated into the upper arm and through the base of the robot. This means, all media necessary for arc welding, including power, welding wire, shielding gas and pressurized air is routed for maximized performance and energy efficiency. The IRB 1520ID delivers stable welding, excellent path accuracy, short cycle times and extended life expectancy of the hose package. Thanks to the integrated dressing, welding around cylindrical objects can be carried out without any stops and narrow spaces are more easily accessed.

Flexible installation

With a payload capacity of 4 kilograms and a reach of 1.5 meters, the highly compact IRB 1520ID can be mounted in both floor and inverted position. This positioning flexibility offers short cycle times and a wide range of production possibilities.

Superior accuracy and speed

ABB robots are renowned for their superior motion control. With the second generation TrueMove™ technology, IRB 1520ID has an outstanding path accuracy. With the second generation QuickMove™ technology, the robot is able to utilize maximum acceleration between welds to increase output with minimum energy consumption.

Easy to use, Easy to program

Both robot and arc welding process are easily programmed and maintained with the ABB FlexPendant. It has a intuitive graphical interface which lets the operators control the robot and selected process equipment in their own language. It is equipped with a touchscreen and the unique ABB joy-stick for quick and easy positioning of the robot. If you appreciate the benefits of simulating and programming offline, ABB offers the most popular, reliable and cost-efficient software packages with RobotStudio™ and RobotStudio Arc Welding Power-Pac including VirtualArc™. With VirtualArc™ you get built-in welding expertise and the opportunity for virtual trial and error to achieve a perfect welding parameter setup and much less trimming. The welding robot will produce predictible cycle times and welding quality after only a few hours.

Global service and support

For worry-free operation, ABB also offers RemoteService, which gives remote access to equipment for monitoring and support. Moreover, ABB customers can take advantage of the company's service organization; with more than 35 years of experience in the arc welding sector, ABB provides service support in over 100 locations in 53 countries.



IRB 1520ID

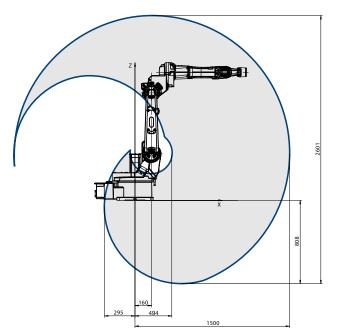
Main applications				
Arc welding				
Specification				
Payload		4 kg		
Armload		10 kg		
Reach	1.50 m			
Number of axes	6			
Protection	IP40			
Mounting	Floor, Inverted			
IRC5 controller variants	Drive module, Single cabinet			
Physical				
Dimensions robot base	300 x 300 mm			
Robot weight	170 kg			
Performance (according to	o ISO 9	283)		
Position repeatability (RP)	0.05 mm			
Path repeatability (RT)	0.35 mm			
Movement				
Axis movements	Worki	ng range	Maximum speed	
Axis 1	+170°	to -170°	130°/s	
Axis 2	+150° to -90°		140°/s	
Axis 3	+80° to -100°		140°/s	
Axis 4	+155° to -155°		320°/s	
Axis 5	+135° to -135°		380°/s	
Axis 6*	+200°	to -200°	460°/s	
*+288 rev. to -288 rev max.				
Electrical connections				
Supply voltage	380 V			
Power consumption	ISO cube 0.6 kW			
Environment				
Ambient temperature for r	nechan	ical unit:		
During operation		+5°C (41°F) to +45°C (113°F)		
During transportation and storage		-25°C (13°F) to +55°C (131°F)		
For short periods (max 24h)		up to +70°	C (158°F)	
Relative humidity		Max. 95% at constant temperature		
Safety	Double circuits with supervision,			
		emergency stops and safety func-		
	tions, 3-position enabling device			
Final tractions		ENAC/ENAL -		

EMC/EMI shielded

Data and dimensions may be changed without notice

Working range

IRB 1520ID-4/1.5





Emission