

IRBP R

Positioner Range



This positioner is for applications requiring two stations – loading and welding – and where the workpiece has to be rotated about one axis.

The rotation is fully coordinated with the robot to ensure high quality and maximum welding speed.

The IRBP R is suitable for workpieces up to 2 000 mm (models 500 and 750R)

Dynamic control of the rotating workpiece permits rapid acceleration and high speed movements to reduce welding times and to meet tough reorientation requirements.

Dynamically adaptive software plus the simultaneous operation of the high speed drives give quick change-overs and further reduce cycle times.

The IRBP R has low floor space requirements.

The arrangement allows the operator to perform all loading and unloading operations ergonomically. Also, the operator is shielded from the welding process.



General Features

All ABB positioners gives users a complete and efficient solution. They are of a robust construction to ensure excellent stability.

All axes are fully coordinated with the robot when programming as well as during operation. The positioners are easy to use with clear, simple instructions for programming.

They use the same drive systems and software as the robot. The dynamic software (HPP, High Performance Positioner) automatically compensates for the effects of gravity, inertia and friction to provide fast movements and accurate following of the programmed path. The robot software, Load Id, is used for calculating. The positioners are used for manipulating workpieces during arc welding, thermal cutting or other applications.

To meet users' requirements they can be supplied (or retrofitted) with a comprehensive range of pneumatic swivels and slip-ring drives (24 channels using ProfiBus, DeviceNet, InterBus etc). ABB's positioners are

designed to be highly functional yet compact thus making maximum use of available floor space.

Standardised dimensions for all rotating plates greatly simplifies exchanging fixtures.

ABB positioners can be supplied with all necessary safety equipment. Users can get their positioner really soon as all ABB positioners comes with a very short delivery time.

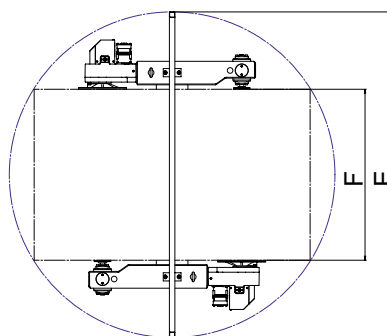
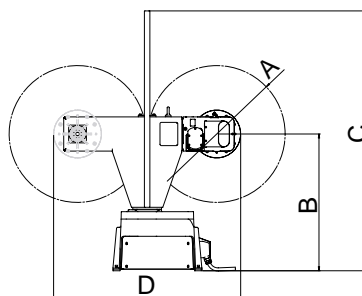
		250R	500R	750R
Handling capacity	kg	250	500	750
Cont. torque	Nm	350	650	900
Max inertia	kgm ²	40	150	300
Max bending torque	Nm	650	3300	5000
Max speed	rpm	30	25	25
Min interchange time	s	3.3	3.4	3.4
Max interchange time	s	4.1	4.2	4.3
Repeatability (r=500)	mm	0.1	0.1	0.1
Max load diff	kg	150	350	350

Positioner 250R

A	B	C	D	E	F
1000	1000	1900	1368	2381	1250
1000	1000	1900	1368	2581	1600

Positioner 500R/750R

A	B	C	D	E	F
1000	1000	1900	1618	2865	1600
1000	1000	1900	1618	3230	2000
1200	1100	1900	1748	2970	1600
1200	1100	1900	1748	3280	2000



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ABB reserves the right to change specifications without notice.

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