

IRB 1200: Entirely new small robot family from ABB addresses the needs of modern material handling and machine tending

Have you ever wanted to make your machines 15% smaller and 10% faster? ABB's new IRB 1200 allows you to do exactly that.

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- **New design** : Loaded with features which allow for 15% smaller cells that have 10% shorter cycle times
- **Compact** : Large useable working area in a small package leads to shorter cycles and more compact machines
- **Easy to integrate** : Four air ducts, 10 customer signals and Ethernet, all routed inside the robot from flange to foot
- **Flexible family** : Two variants (700 mm reach/7 kg payload; 900 mm reach/5kg payload); Mountable at any angle
- **Durable** : IP 40 protection as standard with IP 67 protection as an option; ISO 4 version in next release

With the introduction of the IRB 1200, ABB addresses the needs of the material handling and machine tending industries for flexibility, ease of use, compactness and short cycle times while still maintaining large working envelopes.

“We are excited to introduce the IRB 1200,” says Phil Crowther, Small Robots Product Manager. “Our exhaustive market analysis and development process has resulted in a robot that is incredibly compact, allowing for maximization of useable working range and operation as close to the work piece as possible.”

The IRB 1200's functional form factor is a feature which is not merely a cosmetic enhancement. Its smooth surfaces make it **easy to keep clean and maintain** in environments such as CNC machine tending and material handling in the food industry. This theme of efficient design is one which can be found across the entire spectrum of IRB 1200 features.

For instance, both electrical and air connections can be made to the robot via side ports or an underline option. In addition, an **Ethernet port** makes it easy to integrate with other equipment. These connections are routed internally on the robot from very close to the wrist flange all the way to the foot thus enhancing the compactness of the package.

As a dynamic family of robots, the IRB 1200 comes in **two variants** which can handle a wide range of applications and are cost effective due to commonality of parts. The 700 mm reach variant can carry a payload of up to 7 kg, while the longer reach 900 mm variant can carry up to 5 kg of payload. Both variants can be **mounted at any angle** and come with IP 40 protection as standard — IP 67 protection is also available as an option.

By design, the IRB 1200 has no offset in axis two. This innovation results in a longer stroke than other robots, meaning the IRB 1200 can be placed very close to the work piece and still be functional. One particular benefit of this long stroke is that it allows for a much more compact installation when the robot is mounted on the ceiling inside a small cell, such as in electronics machining or polishing applications.

As a complete solution, the IRB 1200 excels in situations that require a compact package without sacrificing working range or functionality. Short throw distances between operations make for faster cycle times in as small a cell as possible, meaning you can do more with less. The IRB 1200—better by design.

Press Release



Further information for editors:

ABB (www.abb.com) is a leader in power and automation technologies that enable utility and industry customers to improve their performance while lowering environmental impact. The ABB Group of companies operates in around 100 countries and employs about 150,000 people.

ABB Robotics is a leading supplier of industrial robots - also providing robot software, peripheral equipment, modular manufacturing cells and service for tasks such as welding, handling, assembly, painting and finishing, picking, packing, palletizing and machine tending. Key markets include automotive, plastics, metal fabrication, foundry, electronics, machine tools, pharmaceutical and food and beverage industries. A strong solutions focus helps manufacturers improve productivity, product quality and worker safety. ABB has installed more than 200,000 robots worldwide.

All ABB Robotics' products are fully supported by the ABB Robotics' global sales and service organization in 53 countries and over 100 locations.

Visit www.abb.com/robotics for further information.

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