

ABB's largest ever robot is 25 percent faster than the competition

The IRB 8700 is the market's best performing high payload robot with the lowest total cost of ownership.

November 3, 2015

ABB today introduced its highest payload, multipurpose industrial robot, the IRB 8700. The robot has a reach of 3.5 meters and is capable of handling a payload of up to 800 kg (1000 kg with the wrist down; 630 kg with LeanID).

"When designing the IRB 8700, we emphasized reach and payload as well as performance," says Ola Svanström, ABB Product Manager for Large Robots. "Thanks to ABB's superior motion control technology at high moments of inertia, this - our highest ever payload robot- automatically adapts and adjusts its speed to accommodate heavy and wide parts. With a compact footprint, optimized counterweight, parallel linkages, stiff axes and fewer drive motors, the IRB 8700 keeps its momentum down and speed up."

The IRB 8700, ABB's largest ever robot offers all the functionality and expertise of the ABB portfolio in a much bigger package. The robot has only one motor and one gear per robot axis, while most other robots in this size class use dual motors and/or gears. In addition, there are no gas springs; only a reliable counterweight and mechanical springs for counter balancing. Together these design elements mean the IRB 8700 has fewer components and is able to deliver shorter cycle times and higher accuracy.

The IRB 8700 is available in two configurations, one with a reach of 4.2 meters and a payload of 550 kg (620kg with the wrist down; 475 with LeanID) and the other with a reach of 3.5 meters and a payload of 800 kg (1000kg with the wrist down; 630kg with LeanID). Both configurations have an incredibly high moment of inertia at 725 kgm².

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 140,000 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 250,000 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.

For more information please contact:

Press Release



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