

ABB completes new large industrial robot line with introduction of two more variants

The IRB 6700 family of robots is a natural evolution following 40 years of large robot heritage at ABB, featuring a multitude of next generation improvements meant to obtain the lowest total cost of ownership.

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- **Two variants join family:** now with payloads from 245 to 300 kilograms and reaches from 3.00 to 2.70 meters, respectively
- **Foundry Plus:** Additional sealant protection option for each of the robots' axis and Integrated Dressing available
- **Built around LeanID:** Cost effective Integrated Dressing for easy programming, reduced wear and small footprints
- **Simplified maintenance:** Longer service intervals, highly accessible components and optimized service routines
- **Lowest Total Cost of Ownership:** Key improvements combined with better energy efficiency add up to a 20% lower TCO

For 40 years ABB has evolved its lineup of large industrial robots to meet modern manufacturing needs. This depth of experience has led to a comprehensive knowledge of the needs of our customers and the technical capability to produce the most robust and cost effective machines available. ABB unveiled the first four members of the IRB 6700 family in November 2013; followed by two additional members in February 2014. Today, ABB again raises the bar with the introduction of the IRB 6700-300/2.70 and the IRB 6700-245/3.00, the last two variants in its 7th generation large robot family.

Not only have accuracy, payload and speed been increased, but power consumption has been lowered by 15% and service has been simplified. In determining what improvements to include, ABB studied the detailed field reports from the IRB 6700's predecessor and engaged closely with customers during a yearlong study.

"Historically, when designing our robots we have always focused on performance. This time we emphasized reliability and lowering total cost of ownership," says Ola Svanström, ABB Product Manager for Large Robots. "The IRB 6700 focuses on MTBF (mean time between failures), MTTR (mean time to repair), and the essential elements required to achieve these objectives."

Every robot in the 6700 family is designed to accommodate LeanID—a new Integrated Dressing (ID) solution meant to achieve a balance between cost and durability by integrating the most exposed parts of the dress pack into the robot. Equipping an IRB 6700 with LeanID makes it easier to program and simulate with predictable cable movements, creates a more compact footprint, and lengthens service intervals due to lessened wear and tear. Any of the IRB 6700 eight family members also can be ordered with ABB's Foundry Plus for additional protection. This optional protection system guards ABB's robots against the harshest of foundry environments which can be extremely hard on standard robots and equipment.

"Our automotive customers have told us it is not unusual to change a spot welding dress pack on 60% of their robots every year," adds Svanström. "Thanks to the IRB 6700 family, we can deliver a dress pack with a full warranty – just like the rest of the robot - which is a giant step forward when it comes to uptime."

In designing the new robot, easier serviceability was identified as a critical aspect for improving its total cost of ownership. Service routines for the machine have been shortened and intervals between them have been increased.

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 145,000 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.

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