

ABB launches new Cleanroom robot for flexible and compact production.

Automating cleanroom processes will enable more manufactures to improve productivity, reduce cycle times and decrease manufacturing costs.

9th January, 2012

ABB has launched an ISO 5 (Class 100) Cleanroom version of its smallest ever multipurpose industrial robot, the compact, agile and lightweight six-axis IRB 120. The new model has had all materials prone to particle generation modified to eliminate the potential for contamination of the manufacturing area and the components being processed.

Speaking about the new Cleanroom version, Nicolas De Keijser, Product Manager for ABB's small robots, comments, "In the development of our fourth-generation of multipurpose robots, we recognized a demand for a fast and compact robot that could work in the stringent cleanroom environments that are typically found in electronics, solar and medical industries".

The IRB 120 Cleanroom variant has been independently tested and certified by the Fraunhofer-IPA institute as Clean Room ISO 5 (Class 100)

This agile robot is prepared with specially painted smooth surfaces and has unmatched accuracy while performing very short cycle times, and in certain conditions can achieve ISO 4 (Class 10) Cleanroom requirements. It can also be mounted at any angle, either in a cell, on top of a machine or close to other robots on the manufacturing line.

The robot comes with the ABB IRC5 Compact control bringing all the benefits of the world leading robot controller. This includes superior path motion, user friendly FlexPendant programming, RobotStudio offline programming, flexible RAPID language and powerful communication capabilities.

De Keijser concludes "While certain industries have suffered under the recent challenging economic conditions, those involved in cleanroom manufacturing continue to grow. We want to support those industries to ensure we help them realize the clear benefits available from robotic technology. The IRB 120 Cleanroom is a cost-effective and reliable choice for generating high production outputs in return for a minimal investment."

The new robot and the IRC5 controller are fully supported by the ABB Robotics' global sales and service organization in 53 countries and over 100 locations.

For further information contact Nicolas De Keijser, Small Robots Product Manager

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