

ABB's New Compact Painting Robot offers improved technology for spraying small parts

Manufacturers can now improve their paint production process with the introduction of the ABB IRB 52 painting robot, designed for spraying small and medium sized parts in a wide range of industries. The lightweight robot can help users achieve a 20 per cent reduction in energy consumption, whilst its compact size occupies up to 20 per cent less factory space.



Despite its compact design, the robot is capable of reaching up to 1.4 metres with the ability to handle process equipment up to seven kilogrammes, meeting handling capacity requirements for most paint applications. The robot's dimensions are ideal for smaller spray-booth sizes, reducing both the size and energy consumption of the booth ventilating plant.

Using ABB's Integrated Process System (IPS), the IRB 52 enables manufacturers to reduce paint consumption by up to 60 per cent compared with fixed gun applications, helping to cut the overall cost of manufacturing. The system includes colour change valves, air and paint regulation and guarantees high-quality, accurate painting whilst ensuring high quality finishing and improved paint savings.

"Over recent years, the market for painting small to medium parts has been increasing rapidly, with growing demand for items such as mobile phones, MP3 players and digital cameras", explains Robert Low, Senior Project Manager for ABB's UK Robotics division. "We are also still meeting demands from manufacturers in the automotive industry, who continue to use our specialist paint equipment".

Weighing in at only 250 kilogrammes, the IRB 52 can be easily inverted or wall-mounted to suit the needs of the user. The ability to mount the robot in multiple positions allows users to optimise their available installation space.

The new model can also be controlled by ABB's new IRC5P paint robot control system. . The controller provides a user-friendly interface with multi-language support and advanced programming capabilities, including Robview5 for diagnostics and production trend reports. The new system provides a flexible, easy-to-use and reliable robotics solution capable of handling a wide range of painting applications.

The IRC5P paint robot control system also provides manufacturers with access to ABB's TrueMove and QuickMove motion control technology. These technologies offer improved path accuracy with TrueMove and reduced cycle times with QuickMove. Combined with the IRB 52's outstanding

position repeatability and path following capabilities, manufacturers can be assured of consistent high quality for the painting process.

The IRB52 is the latest in a line of painting robots offered by ABB. For further information about the IRB 52 or ABB's other specialist painting technology, please email robotics@gb.abb.com or call 01908 350 300. Ref: "IRB 52/Painting".

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