MEETING YOUR DEMANDS

Process know-how
Achieving an even film build using manual spraying is difficult. Introducing an ABB coating robot solution into your furniture fabrication process will help you produce parts with constant, high finish quality. You will also reduce overspray, thus reducing material consumption and waste. Based on our long experience and customer needs, we are developing packages designed for quality and consistency.

Tailored solutions
ABB Flexible Automation provides flexible tailored solutions for surface treatment in the wood and furniture industry. Our solutions are based on proven packages and standardised components. Thanks to our high performance easy-to-use coating robots, you may now have complete new lines or single stations, as well as upgrades of existing equipment.

Expertise and service always on your doorstep
No matter where in the world you operate, there will be an ABB Flexible Automation Centre nearby, offering engineering expertise, service excellence and manufacturing know-how. Our range of standards and customised services are designed to increase uptime and improve productivity, enabling you to focus on your core activities.

ABB Flexible Automation

IRB 540 - Solutions for wood and furniture
Based on proven technology
Gain an edge on the competition

Our standardised and dedicated solutions draw on thirty years of paint process know-how and experience to address your requirements for lower costs, higher finish quality and reduced emissions.

More user-friendly robots

Paint technology is a fast growing segment throughout the world. In the paint application field we offer solutions to a wide spectre of customers in sanitary ware, furniture, two-wheelers, electronics, agricultural and heavy construction equipment. Our total paintshop solutions include robots and atomizers, spray booths, paint handling equipment etc. ABB Flexible Automation’s proven standardised technology provides high-quality finish for all powder, solvent and waterborne paint processes, however complex the product shape. Our standardised solutions also include dedicated processes for difficult materials, such as glaze, enamel, shield material and adhesives.

Leading edge technology

Based on our paint process knowhow and leading edge technology, we are able to offer low unit production costs, full service and standard system solutions worldwide.

"After the initial setup and training, the flexible SAP controller simplifies programming and provides great adaptability to my specific needs. It’s a superior and reliable performer, and combined with the high quality of the ABB robots I have endless possibilities."

This is John Bjerrum Nielsen’s impression of our S4P possibilities. He is the president of the family-owned company Bjerrum Nielsen, which among other things delivers plastic parts to Bang & Olufsen. Bjerrum Nielsen has over 15 years’ experience of programming robots, now he is a S4P user.

The S4P controller integrates the motion and paint systems, simplifies training and reduces maintenance. The S4P controller integrates the motion and paint systems, offering optimized paint results with less waste.

Extensive communication capability for integration and control

The controller contains fieldbus and serial channels for PLC and PC connection. Using the distributed I/O system, I/O devices can be placed separately, e.g. in a pneumatic cabinet. Robot control from a PC is possible using Ethernet, and a number of alternative fieldbuses are available for distributed devices.

Superior reliability

The S4P is designed to the highest level of operational reliability. The electronics and drives are mounted in a shielded ventilated cabinet with the drives fully protected against dust and dirt. Error recovery procedures and low energy consumption ensure a high reliability.

User safety

User safety is designed into the S4P with multiple safety interlocks, easily accessible emergency stop, circuit status signals, 3-position enabling device and plain language text messages on the programming unit. The operator can also be directed about appropriate recovery actions. ABB intends to maintain its strong focus on personnel safety, which has a high priority in our development work.

Total Support

As with all ABB Flexible Automation products the S4P is supported by a worldwide organisation, round the clock. Never more than a phone call away, the local team is your guarantee that you get maximum availability from your robot systems.

"The resolvers are integrated in the motion and no commutation is needed, resulting in a slim design and reduced need for access."

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PaintWare™ software

The renowned ABB S4P controller is the global standard platform that is used throughout our robot systems. It provides common spare parts and reduced engineering and commissioning time, simplifies training and reduces maintenance. The S4P controller integrates the motion and paint systems, offering optimized paint results with less waste.

ROBOTWARE™

ROBOTWARE is a family of software products from ABB Flexible Automation designed to increase your productivity and lower your total cost of owning and operating robots. From the basic operating system software of the robot controller, to PC-based software tools, ROBOTWARE is the most powerful set of robot tools available. With advanced functions and specialised application packages, ROBOTWARE provides you with an open and flexible system, including communication, networking and Windows connectivity. Our line of PC-based software products combines the power of PCs with the power of robots, increasing your productivity and helping you manage your production more effectively. Based on Windows technology, they are easy to learn and use.