

ABB's new lean arc welding robot delivers cost efficient 24/7 production

The new IRB 1520ID is a high precision robotic arc welder, with integrated process dressing and combines round the clock production output with 50% lower cost of maintenance to deliver the lowest cost per weld in its class.

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ABB Robotics has introduced the new IRB 1520ID, a high performance robot with integrated process dressing designed specifically for arc welding. All cables and hoses are routed inside the upper arm, simplifying programming and providing optimum protection for all media, including welding power and wire, shielding gas and pressurized air.

The integrated dressing design increases accuracy, extends hose life by 50%, and allows for more flexible movements, such as those needed for single-motion welds around cylindrical objects or hard to reach weld seams. Equipped with ABB's second-generation TrueMove™ technology, the IRB 1520ID achieves the highest path accuracy in the lightweight arc welding robot class. With a reach of 1.5 meters and payload capacity of 4 kilograms, the robot can be mounted on the floor or inverted, allowing a wide range of production configurations

"Manufacturers that require automated arc welding now have an easier way to upgrade to a robotics solutions thanks to the IRB 1520ID" said Per Lowgren, Product Manager for ABB's mid range robots. "This is a very compact and extremely accurate robot, and the most easily integrated general purpose arc welding robot on the market."

The IRB 1520ID also features the easy-to-use ABB FlexPendant HMI. With just a few buttons and an intuitive, multilingual interface, the FlexPendant can be used by operators with minimum training. "It will be familiar to anyone who has used a PC," says Lowgren. "The power source interface is also fully integrated so users have full control over voltage, current, speed, gas flow, and other welding parameters from the same interface as the robot."

Users of the IRB 1520ID can also access all the benefits of ABB's Remote Service, a system which provides remote access to the arc welding system for production monitoring, fast diagnostics and predictive maintenance.

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.

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