

Brännehylte Handels

Case study: Metal Fabrication

Application

• Arc welding, material handling

Products

• Storage systems



MultiMove is a winner at Swedish storage system company

Saving operator time and significantly speeding up production capacity were two main reasons for Brännehylte Storage Systems to choose ABB's IRC5 MultiMove robot controller.

➤ Brännehylte Storage Systems is one of three divisions that make up Brännehylte Handels AB. Located in the middle of the fairytale forests of Sweden's southern Småland region, Brännehylte Handels has more than half a century of tradition when it comes to materials handling.

Kent Erlandsson is the head of Brännehylte Handels AB. Lately, the company has seen a large influx of orders when it comes to beams and legs for storage sections. The number of orders has made it necessary to increase production capacity, and one way to address this has been to use robots.

"ARHO AB came up with a proposal that was far better than any competitor was able to offer," says Kent

Erlandsson. "It meant better performance but also a higher capacity and fewer operators involved."

Brännehylte Handels has had ABB robots before, but this time robot installation company ARHO AB, a certified preferred ABB partner, had something special in mind that would particularly suit the needs of Brännehylte Handels.

"**Together with the customer**, we designed a tailor-made concept that really uses the possibilities of the MultiMove functionality of ABB's IRC5 robot controller," says Göran Funke, responsible for sales at ARHO.

IRC5 is ABB's fifth generation robot controller. It

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“We are 10 years ahead of our competitors in terms of the functionality we can offer in our MultiMove system,” says ABB’s Peter Eliasson.

➤ encompasses a modular concept with the FlexPendant – an ergonomically designed portable interface unit, and the MultiMove function – enabling fully synchronous control of up to four robots.

“The IRC5 MultiMove function to control multiple robots allows both reduced costs and improved quality while raising productivity and expanding robot applications,” Funke says. “MultiMove enables unprecedented applications, thanks to the accurate coordination of complex motion patterns. It is also easier to control all the robots in the cell by using the IRC5 MultiMove functionality.”

“This customized solution saves the time of 2.5 operators, which is most beneficial to us,” Erlandsson says. “Thanks to the system’s speedy cycle time – from start to finish about 35 to 40 seconds – we can produce almost 2,000 articles each day.”

In the case of Brännehylte Handels, the IRC5 MultiMove function controls four robots – two IRB 1600 for arc welding and handling and two IRB 6600 for handling.

>FACTS

Benefits

- Tailor-made solution saves the time of 2.5 operators.
- The system’s speedy cycle time of 35 to 40 seconds makes it possible to produce 2,000 articles each day.
- User-friendly interface with many icons and pictures instead of simply text.

“There are also two rotating external axis, controlled and synchronized with an electrical link-motor functionality in the software,” says ABB’s Peter Eliasson, responsible for sales for metal fabrication in the Swedish market. “Moreover, there are two slide motions where we use two MU motors. The integrator ARHO has also built carriages to enhance the functionality.”

Eliasson points out that the FlexPendant has a user-friendly interface with many icons and pictures instead of simply text.

“It is a color pendant, and it is the only one available on the market that can be used as easily by both left- and right-handed people,” he says. “It has a touch screen with only eight hard buttons on the pendant. Four are dedicated to controlling the program, and the other four can be programmed to perform the functionality you would like to have.”

Another benefit for customers is the possibility of programming offline with the Robot Studio PC application. Robot Studio helps avoiding preplanning in terms of exactly what the robots are going to do.

“In Robot Studio, you have the power packs for arc welding and also the built-in functionality for the MultiMove programming,” Eliasson says. “You can also use Robot Studio to simulate the system before building it – all to make sure that you will be able to get the most mileage out of the system according to your plans.”

ABB has sold the IRC5 with MultiMove to many clients within the automotive industry.

“We are 10 years ahead of our competitors in terms of the functionality we can offer in our MultiMove system,” Eliasson says. ☉

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