

# Press Release

Landstuhl, April 20, 2011

## **Semiautomatic Weld Package SAM – Hand welding with robotic quality**

**Highly precise robotic welding technology and its sophisticated features now available for hand welding**

Modern MIG/MAG robot welding technology meets the highest quality requirements. Hand welding must match up to the same high quality standards.

The permanent desire for a fully automation is opposed to parts with complex geometries, technical feasibility and cost effectiveness. In many applications it is therefore, technically and economically a good idea, regarding Pareto's principle (80/20), to weld the remaining percentages manually. However, the same high quality is required as provided by robot welding technology.

To make robotic precision available for hand welding, SKS has developed its own Weld Package for manual welding. This is realized with proven components from robotic applications. The semi-automatic Weld Package consists of a trolley on which the Power Feeder PF5 is mounted, a holder for the Q1 hand weld process controller and the LSQ power source. The controller is supplied with free software, the Q1Tool. The trolley is prepared for wire feeding directly from the barrel, but can additionally be equipped with a wire spool holder. So it's flexible to configure.

The flexible and modular design with SKS standard components eases maintenance and installation. The user interface is adapted from standard SKS weld process controllers, so that the training effort for using SAM is very low.

The advantages of using robotic arc welding technology in the area of hand welding are obvious: With the high quality components high operational times are achieved.

The consumables are standard robotic arc welding parts that are specifically designed for high requirements. With the use of standard robotic components, you have less variety of different parts. That

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minimizes storage needs. In addition, the support and monitoring functions of robot applications are now available in manual welding, such as the I-pulse process and the use of material characteristic curves for the different materials to provide optimum weld results.

The included software Q1Tool lets you easily administrate the hand weld process controller (read, write and backup of welding parameters). Thus, hand welding stations can be put up with predefined welding parameters quickly and digitally reliable.

The benefits in brief:

- Robotic precision and high operational times of the hand welding equipment
- Robot processes and monitoring functions can be used: e.g. I-pulse, material characteristic curves
- Reduces a variety of standard robotic welding components, the number of parts / logistics advantage
- Comprehensive free Q1Tool software for administration/backup/restore of welding parameters

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Semiautomatic Weld Package SAM



Semiautomatic Weld Package SAM: Trolley with power source, wire feeder, spool holder and Q1 weld process controller

For further information: [www.sks-welding.de](http://www.sks-welding.de).

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