



Resistance Welding with state of the art Inverter Power Sources

SilverSPATZ

Mid Frequency Inverter Power Sources

Solutions for spot welding and the demands of mass production in sheet metal industry

Highlights of the **Matuschek** Inverter:

- adaptive **MASTER**® control mode
- constant current, -voltage, -power
- serves one or two manual weld guns and up to 63 robot weld guns
- 1,000 Hz MFDC, 150 - 1,200 kVA
- FELDBUS, PROFIBUS-DP, PROFINET, DEVICE-NET, INTERBUS-S, ETHERNET-IP, RS232
- weld gun identification system **MASDAT**®
- weldrecorder for 10,000 welds
- warning and alarm management
- settings via DEP **SPATZBG-02** or PC-software



Sheet Metal Welding

Miniature Part
Welding



SPATZ H6000

High Frequency Inverter Power Source

Solutions for electronic industry, lamp production and automatic assembly lines

Highlights of the **Matuschek** HF-Inverter:

- universal unit 100 A - 9,000 A
- high power units with 25 kA, 45 kA, 65 kA
- 20,000 Hz inverter frequency
- constant current, voltage, power
- weldrecorder for 10,000 welds
- warning and alarm management
- settings via DEP **SPATZBG-02** or PC-software



Quality Spot Welds Made Easy!

The *SilverSPATZ* inverter welding controls with adaptive **MASTER**[®] control mode

With fixed settings of the weld parameters (current, time, force) a constant weld spot quality is scarcely to be guaranteed.

Here the adaptive **MASTER**[®] Control method helps you to keep your weld quality constantly high!

Once adjusted with some Constant Current Control-welds, the *SilverSPATZ* power source with that **MASTER**[®] Control mode eliminates disturbances like:

- shunt effects
- fluctuations in electrode force
- electrode wear
- different sheet thickness
- changes in kind and thickness of coating
- switch between 2- and 3-sheet joints
- adhesive between the sheets

This is done by adaptation of the weld parameters, independent of whether you use manual guns or robot guns. That minimizes the quality variations of the welded joints in the production.

The *SilverSPATZ* power sources with the integrated **MASTER**[®] Control Mode:



Sheet Metal Welding

Built in Online Process Data Monitoring and Data Record:
The **Matuschek** power sources help you to optimise your welding tasks!

Miniature Part
Welding



SPATZH6000 and **SPATZM300**

Each weld operation creates a dataset of eight important values:

- Weld current
- Voltage
- Power
- Resistance
- Weld time
- Way
- Force
- Trigger angel

10,000 of these datasets are stored inside the **Matuschek** power sources and can easily be copied to any PC for offline analysis.

Undesirable deviations can be detected and eliminated.

In order to supervise your welding process you can create lower and upper warning and alarm limits.

Are you interested?

Please do not hesitate to contact our headquarter in Germany or one of our representatives in France, India, Iran, South Korea, Spain, Sweden, United Kingdom or USA.