



Genius HWI

*The modular control system for your
micro-welding task*



PERFORMANCE

Our medium-frequency inverter series GeniusHWI is designed for manual or automated systems and is outfitted with a maximum level of functionality. Extensive monitoring and control functions allow an optimized and safe welding process. Thanks to the range of power units, aluminum can also be spot welded.

CHARACTERISTICS

- Individual equipment and customizable range of functions (Basic, Professional, Hand)
- Max. output currents from 400 A to 3500 A (higher currents through a Master-Slave connection)
- 3 weld times (preheating, main current and post-hold time)
- Monitoring of displacement, force, current, voltage and regulation limit
- Constant Current Regulation (secondary)
- Adaptive welding package IQR (optional)
- Visualization of the last 10 measurements
- Operation via PC running XPegasus software ... and much more

APPLICATION

- Spot welding with constant current regulation
- Adaptive feedback welding (optional) for steel materials
- Classic Aluminum Mode CAM for aluminium alloys (typ 5000/6000)
- Projection welds
- Master-Slave setups for up to eight inverters

BENEFITS

- Best welding quality thanks to fast and accurate controller
- Automatic controller calibration
- Short integration time
- Quality assurance routines
- Effective production processes
- Competitive production processes
- Increasing competitive advantage
- Efficient data processing and -backup

Genius H^{WI} – the flexible inverter consists of a compact power unit with a slot-based control unit. The CPU and welding board forms the core of the Genius system.

TECHNICAL DATA

Features	Genius H ^{WI} BAS	Genius H ^{WI} PRO
operating concept	Windows based PC with XPegasus software	
programs	256	512
Welding profile	3 times VWZ, HSZ, NWZ*1	
Max output current	400A to 3,500A	
Mains supply	400V - 440V or 480V, 690V	
Cooling	air or water	
Upslope	Yes	
Downslope	Yes	
Impulses	Yes	
Digital IO	24V I/Os	
Electrode management	Yes	
Proportional valve	Yes	
Visualization of the last IO measurements	Yes	
Limit monitoring current	Yes	
Constant current control KSR	Yes	
S-Inspector	Yes	
Inspectors I,U,H,R	No	Yes
IQR (Adaptive feedback package)	optional	
IQ - Flex	optional	
Q-Inspector	optional	
PQS (PQS-Ready)	optional	
AMC / DCM - ALU Mode Classic + Dynamic Conditioning Mode	optional	
PDD - Process Data Documentation	optional	
TT - Trace Tag	optional	
HSC - High Speed Current	optional	

