

USA special automotive
resistance welding

Complete sales and service structure

We are at your side.

During the recent time we have worked on competition of our sales and service structure. Our partner Stegner Controls in Auburn Hills offers profound trainings, hardware setup, panel build, on-site support and hardware backup for our automotive customers. Stegner Controls has long term experience in automotive business and is a well-established name.

Stegner Controls has experience with Harms & Wende equipment since 2009, where we started with high current applications. These have been solutions up to 250 kA for 2.5 seconds.

Your main sales contact is Alliance Engineered Sales in Troy Michigan. Alliance assists our customers with all aspects from finding a turnkey

solution not only for welding as well as with other equipment.

Their line card covers a complete line of industrial products to solve your enquiry.



Sales

Alliance Engineered Solutions
900 Wilshire Drive, Suite 202
Troy, MI 48084
USA
T (248) 362-9595

Support

Stegner Controls
3333 Bald Mountain road
Auburn Hills, MI, 48326-1808
United States
T (248) 904-0400

Weld lab opened at Stegner Controls

Not as solution? We have all you need!



We are proud to announce that the weld lab has opened at Stegner Controls. In the lab we have esta-

lished latest hardware to cover many applications. The lab is equipped with GeniusMFI508 MFDC inverter with max. 600 A output current and one GeniusHWI524 MFDC inverter with max. 1600 A output current. The inverters run software pack-

ages for steel welds in adaptive mode (IQR), aluminum mode (Classic Aluminum Mode, CAM) and dedicated monitoring functions. For more information about IQR and CAM please flip over.

Servo driven guns with powerful transformers are installed along with this to make weld processes stable and reliable. Furthermore the setup covers weld currents up to 50 kA. This setup allows to weld a wide range of materials from re-

gular steel, over ultra-high strength material (UHSS) as Usibor, boron steel to aluminum.

To book time for your trials please contact:

Mr. Dennis DaSilva
ddasilva@alliancesales.net
T (248) 519-3074

High power required?

200 kA current? Not a problem.

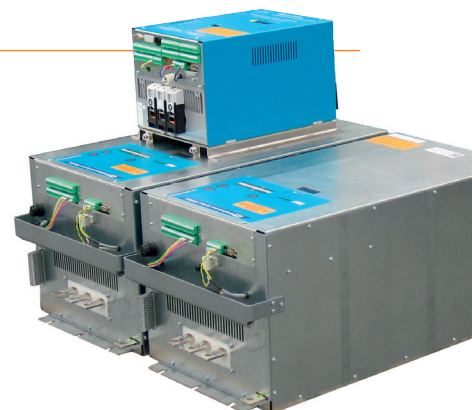
In applications as projection welding two items come together: High currents, short weld times. We offer inverter running from 600 A up to 3500 A maximum output current. As extension it is a Master-Slave combination.

One master inverter can serve up to 7 slaves and amplifies the current from the master.

There are no restrictions if the inverter shall be used with 24 V IO machine interface or field

bus interfaces as DeviceNet of EthernetIP.

Please get in touch with Alliance Engineered Sales or Stegner Controls to know more about our technology.



Aluminum welds

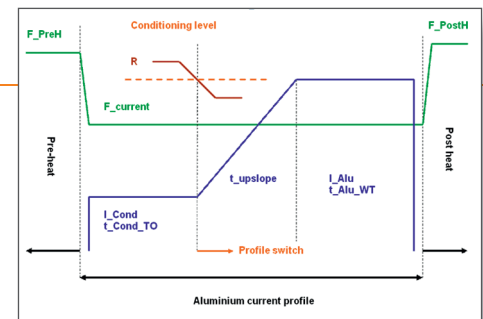
With Classic Aluminum Mode CAM.

Welding of aluminum has been a challenge since a long time – also for us. Providing low frequency systems in the 1980ies we went the step further – Classic Aluminum Mode (CAM). The CAM keeps track of the natural oxide layers on this material group or even sealer between panels.

The key is a breakdown of the weld process based on the resistance of the material. Depending on what the inverter (GeniusHWI) measures in real-time he does react on this. Important for customers is the weld time is constant to keep a cycle time. This is a very important factor to many customers.

Aluminum requires larger inverter systems as steel due to the higher weld current required.

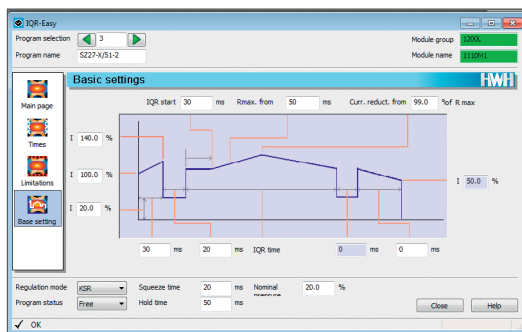
Along with this goes our recommendation for a suitable gun. Only with suitable package your welds will be



constant – here the physics sets limits. But with the CAM you stretch them out for more possibilities.

Spot welding of steel materials

With IQR in adaptive mode.



often result from material mix of imperfections from the previous stamping processes. There are other influences as

well which we cannot list all here.

As a result it is logic to have a flexible solution which equalizes

these fluctuations within boundaries automatically without touching the cycle time. Furthermore the solution should treat each spot as individual which is certainly true from the point of physics.

IQR – the adaptive welding package – uses voltage and current to influence the weld to achieve a desired weld nugget. Depending of what is between the tips IQR offers a tool set to make such welds. Mainly the decision is taken automatically to remove work from

the operator – the task is to build your products.

To learn more about IQR and to see it working, please contact Alliance Engineered Solutions.

For a demo at the lab at Stegner Controls, please contact Alliance Engineered Sales. (contact above)

Welding of steel materials is despite of stiff weld guns and reliable power sources still a challenge in certain cases. These challenges

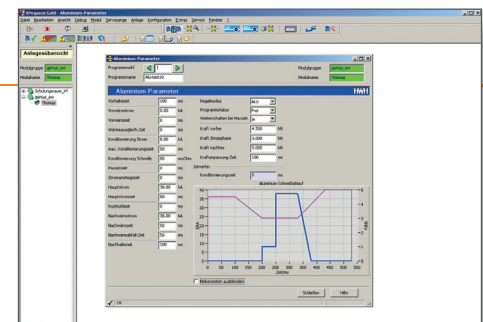
XPegasus

by far more than welding.

As user of technical solutions you know the everyday problem: Many systems, many interfaces. This is a high demand to any person in production and maintenance. Our XPegasus offers all functions

to operate our inverters and AC timers with just a few clicks. Wizards guide you through key processes and help you in every day life. Programming of complete production lines can be made with

some clicks only as well. Please ask for your personal copy of XPegasus Demo.



Harms & Wende GmbH & Co. KG
Grossmoorkehre 9
21079 Hamburg (Germany)

Tel.: +49 (40) 76 69 04 - 0
Fax: +49 (40) 76 69 04 - 88
www.harms-wende.de