

WeldQAS

Quality Assurance System

inline

Monitoring of GMAW welding plants

- Documentation
- Seam inspection
- Fault Detection

HKS-Prozesstechnik GmbH
Heinrich-Damerow-Str. 2
D-06120 Halle / Saale
Tel. +49 (0)345 68309-0
Fax +49 (0)345 68309-49
info@hks-prozesstechnik.de
www.hks-prozesstechnik.de



AN ESAB® BRAND

WeldQAS functions

Outstanding presentation and analysis functions

- Dynamic online analysis of welding parameter for detecting e.g. of porosity, burn trough...
- Monitoring with an automatic learning function
- Representation of the production quality as a note scale with statistical analysis of trends
- Tolerance bands for warnings and faults
- „not OK“ sort out of faulty parts

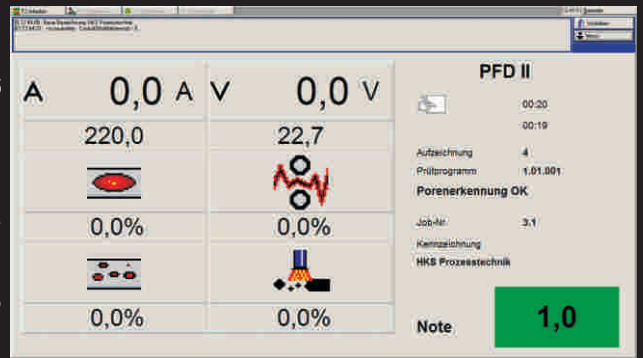
Network function integrated

- ethernet interface allows access to every device for the data query and for the change of the inputs
- automatic data store on a central data server
- monitoring of complex production lines

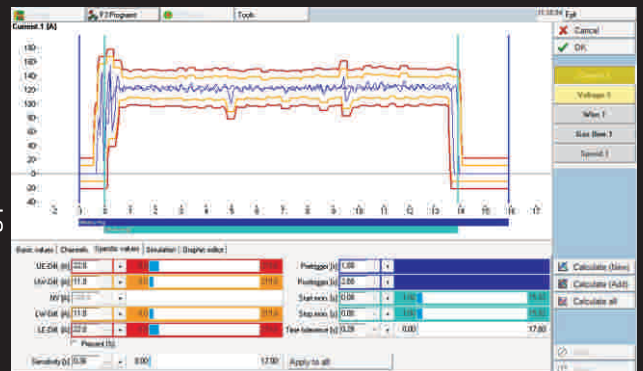
Visualisation of the production

- Demonstration of the seam on each part
- Extensive reporting functions
- Part identification

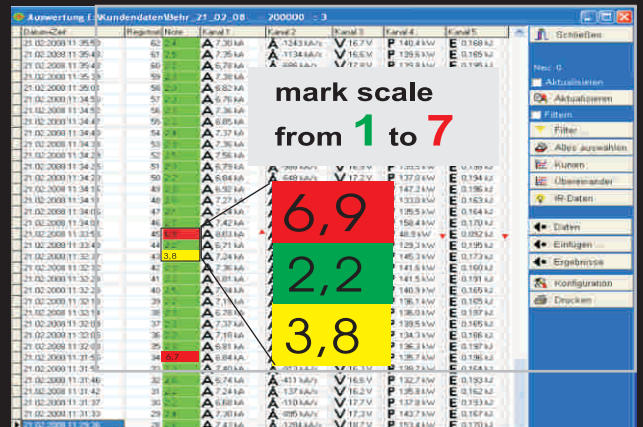
application with pore recognition (MIG-welding)



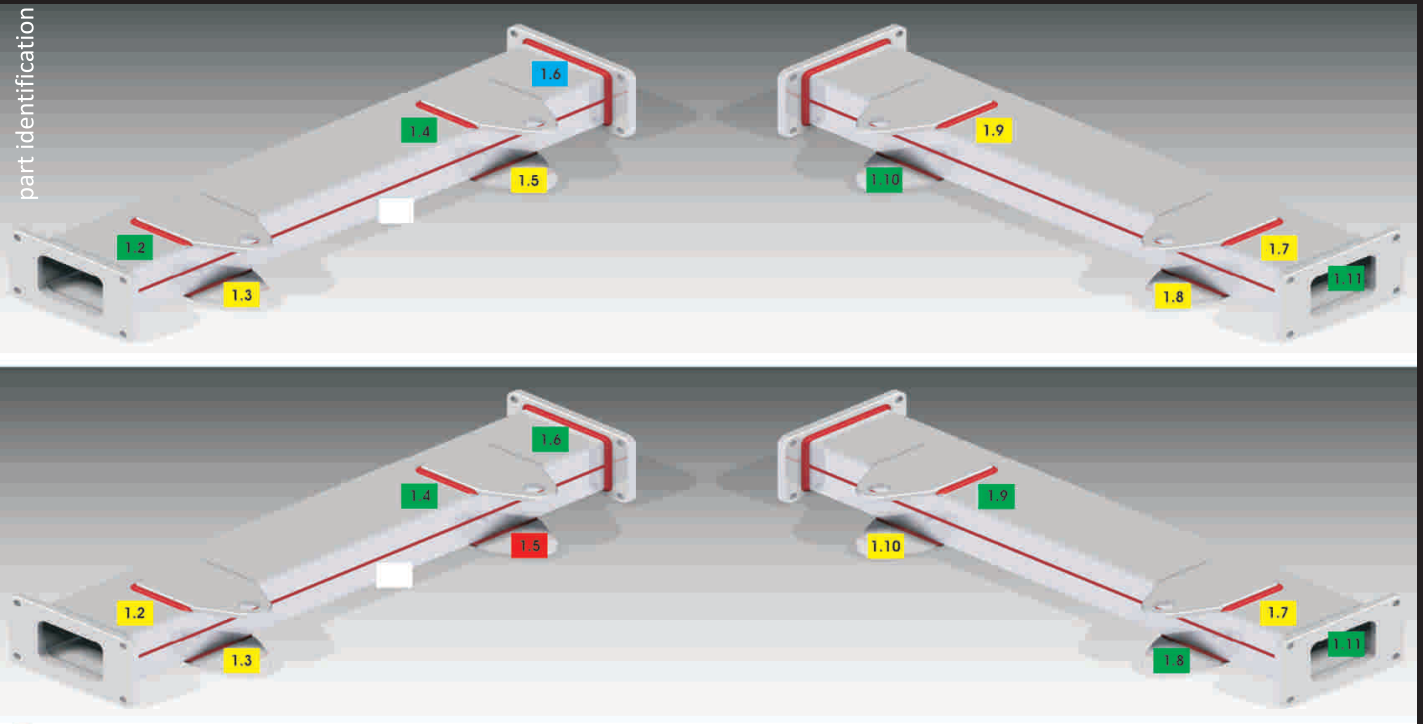
Graphical representation of the welding parameters



Database report according to filter choice



part identification



WeldQAS advantages

Sensors for GMAW



Standard device for the monitoring of one or two welding torches

Advantages of the WeldQAS

- Accurate calculation of weld parameters incl. heat input and deposition rate
- Quantify productivity and provide suggestions on improvement (deposition rate, arc time, etc)
- Reduction of non-destructive testing (NDT)
- Compare multiple stations regarding productivity
- Less administration efforts for traceability
- Real time WPS adherence control
- Reduction of audit efforts
- Identification of power source errors

current / voltage

HKS process sensor P1000



wire feed speed

HKS wire sensor DV25ST



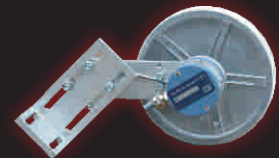
gas flow rate

HKS gas sensor



welding travel speed

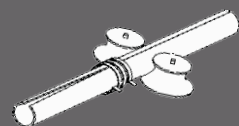
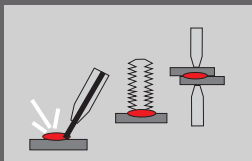
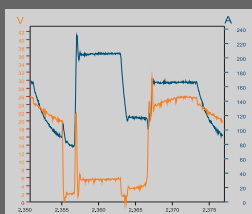
HKS speed sensor





WeldQAS

100%



WeldCloud™

We eye your welding quality

100 % Monitoring and documentation of the welding production

Optimisation of the process and avoidance of rejects

Procedure specific dynamic real time analysis

**Applicable for all welding processes
Arc-, Stud-, Resistance-, Laser-, HFI- welding**

Part identification – complete traceability

**Unlimited use of additional measuring channels,
e.g. for temperature measurement**

Special solution for pipe mills

Ready for connection to the ESAB - WeldCloud