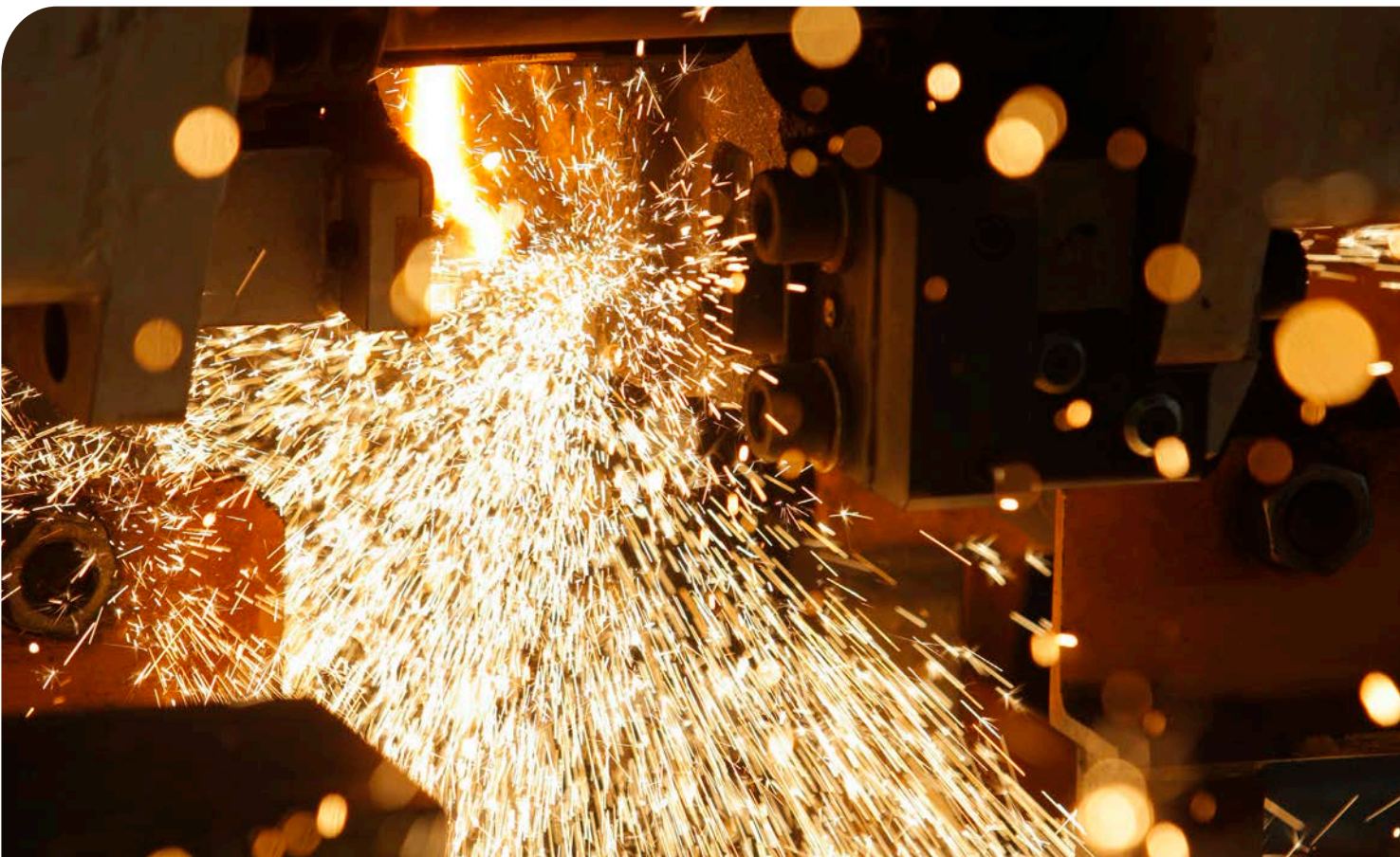


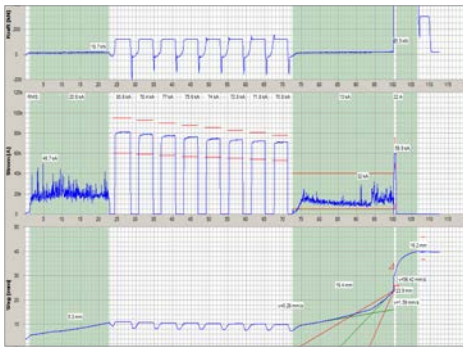
WeldAnalyzer - record, monitor and analyse flash butt welds in real time

Switch your flash butt welds on to a new track.
With the latest generation V2.8 WeldAnalyzer you can perform
your welds more efficiently.



The WeldAnalyzer is the latest generation of PC-based analysis software.

You can analyse your welding results at a glance and make adjustments to the welding parameters and limit values.



Graphical display of a weld

The figure shows the 'Minimum - Maximum Limits' input window. It contains several sections with checkboxes and numerical input fields. The 'Flash Even Time' section has values 13.0 and 30.0. The 'Final Flash Time' section has values 20.0 and 38.0. The 'Upset Current Time' section has values 0.1 and 1.0. The 'Upset Hold Time' section has values 3.5 and 7.0. The 'Upset Force' section has values 570 and 730 kN. The 'Upset Force Drop' section has a value of 50 kN. The 'Upset Current' section has values 50000 and 70000 A. The 'PreHeat Begin RMS Current' section has values 60000 and 95000 A. The 'PreHeat End RMS Current' section has values 53000 and 78000 A. The 'PostHeat Begin RMS Current' section has values 36000 and 42000 A. The 'PostHeat End RMS Current' section has values 0 and 0 A. The 'Final Flash Current Interrupt/Stock' section has values 5000 and 40000 A. There are also checkboxes for 'Enable Line Color', 'PreHeat On Time', 'PreHeat Off Time', 'Cycles', 'PreHeat', and 'Upset Force Drop'.

Input window for the limit values

The figure shows a printed report titled 'WeldAnalyzer - Weld Report'. It includes a header with 'Site/Unit: 30198'. The main body contains machine and job information: Machine Type: GAAS80/580 2653,30198; Job ID: 235061b; Rail Type: 009-136 RE 8598 mm2(9); Start Date/Time: 14,07,2010 18:58:18; Operator: ; String No.: 1; Weld No.: 18. Below this is a table with columns: Cycle, Current On-Time [s], Off-Time [s], Force [kN], Current [RA], Travel [mm], Velocity [mm/s]. The table contains data for four cycles, including preheat and flash even phases.

Cycle	Current On-Time [s]	Off-Time [s]	Force [kN]	Current [RA]	Travel [mm]	Velocity [mm/s]
Flash even		21.58		13.4 M	20.6 R	5.3
Preheat	# 01	4.27	2.20	119.3 M	80.6 R	
	# 02	3.86	2.25	119.3 M	78.4 R	
	# 03	3.85	2.30	119.2 M	77.0 R	
	# 04	3.80	2.35	119.1 M	75.6 R	

Printed report with characteristic sizes of a weld

System

The WeldAnalyzer conforms and fulfils the European standard 14587-1/-2/-3 (stationary and mobile welding systems, and welding systems for points and crossings).

Document and archive executed and repeated welds without any additional expenditure of time. Allow limit values to be monitored and display the results after welding either automatically or manually as text or graphical print out.

Operation can be performed in different languages. Lighten your workload, improve process reliability and produce perfect documentation for your client.

Product features V2.8

The WeldAnalyzer is continuously being improved and expanded. In the 2.8 version, the software provides the following enhancements:

- Control of external marking and labelling equipment with the corresponding weld information (data interface).
- Welding, limits and calibration reports, as well as work lists are created in PDF format.
- Easy of operate with straightforward, clear display. As a result there is minimal risk of confusion in selection of materials for welding, and of welding programs and limits.
- Operator level in 10 different languages.
- Automated processes and functions, such as print-outs after every weld, saving of self-defined log files or regular backups of welding programs, limits and system parameters.
- VisualWeld: Analysis of the weld data, regardless of the office systems.

Products

The WeldAnalyzer can be used for all flash butt weld applications with a weld duration of more then 30 seconds.

- Welding of rail track
- Welding of points
- Welding of truck axles

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