



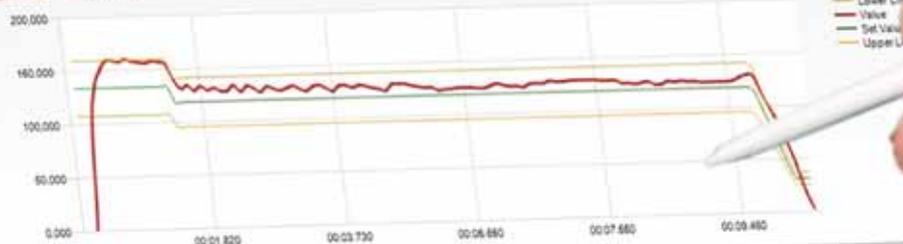
# NEW: Q.MACS

Manage, analyse and monitor network-supported welding processes!

## Welding record analysis

Workplace:	Kitz	Welding Program:	(M)	Record Nr:	41305	Welding speed (cm/min):	44.48
Machine:	HPS60RS(1.241) HighPULSE 550	Rot Nr:	3	Start:	14.45.34.40	Heat input (kJ/mm):	0.24
Customer:	Merkle	Workpiece:	Schmidt Alexander	Finish:	14.45.44.91	Wire cost (eur):	0.01
Order Nr:	123456	Workpiece Nr:	4	Duration:	00:00:10.50	GasCost (eur):	0.02
Welder:	Schmidt Alexander	Joint:	pn4	Wire (kg):	0.01	Energy cost (eur):	0.00
Series:	Series n/a	Pass:	1 Kehlnaht Teil3	Gas (l):	2.267	Machine cost (eur):	0.00
Technology:	TEC3.0 - Kehlnaht 2 Jobs	Rot pass Nr:	4	Energy(kJ):	0.00	Error:	Out of Limit!

Current: 124,70 A



**NEW Q.MACS:**

# COMPETITIVE WELDING PROCESSES FROM MERKLE!

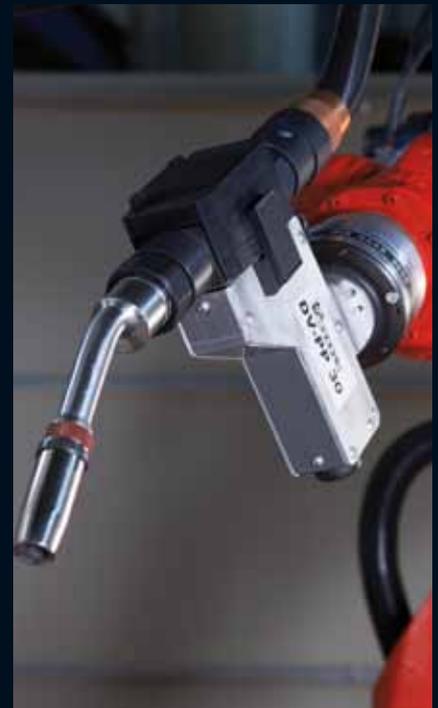
Merkle Q.MACS is a new software system for network-supported management and quality control of welding processes to boost your productivity. Q.MACS stands for **Quality, Management, Analysis and Control System**.

Q.MACS is suitable for manual, automated and robot welding applications in one or as many systems as are required. Exploit the full optimisation potential of your welding processes:

**With the new Merkle Q.MACS at your side!**

**Using Q.MACS will help you:**

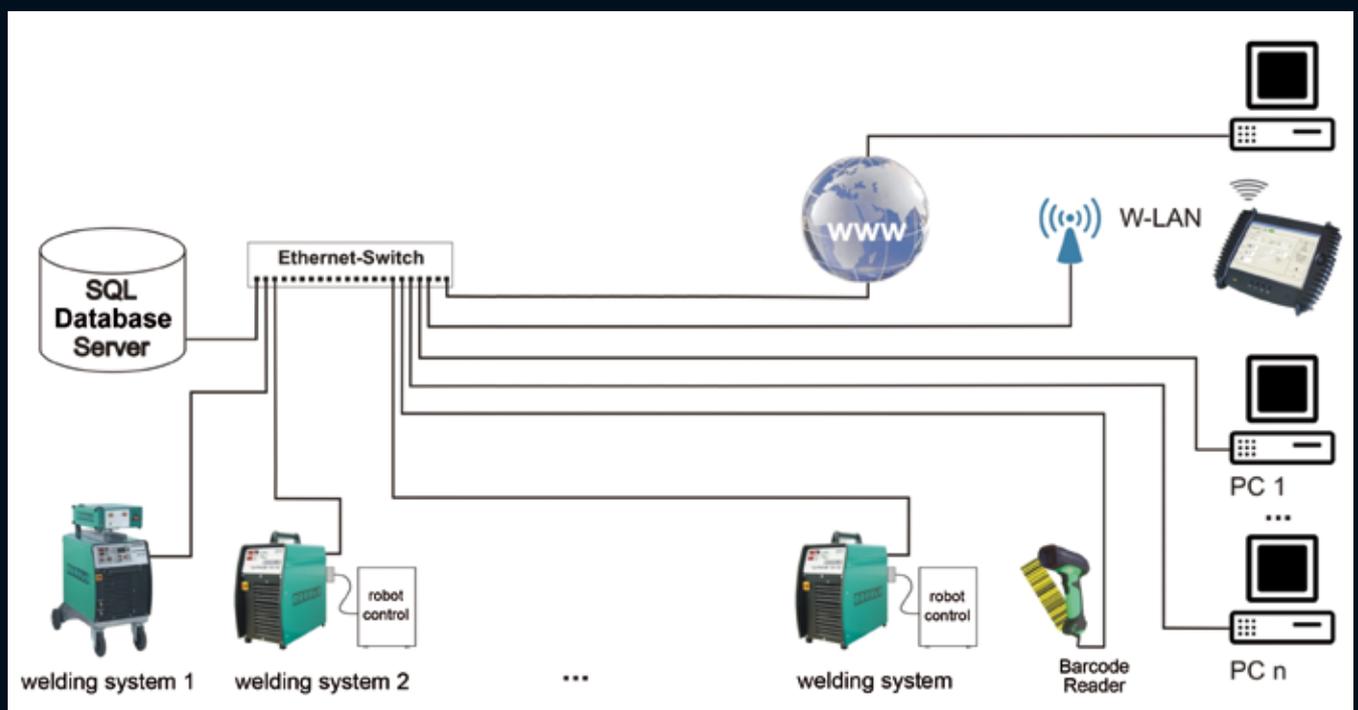
- Prepare all of your welding projects
- Manage machinery connected to the local intranet and undertake real-time monitoring of welding processes
- Evaluate welding data and produce analytical reports





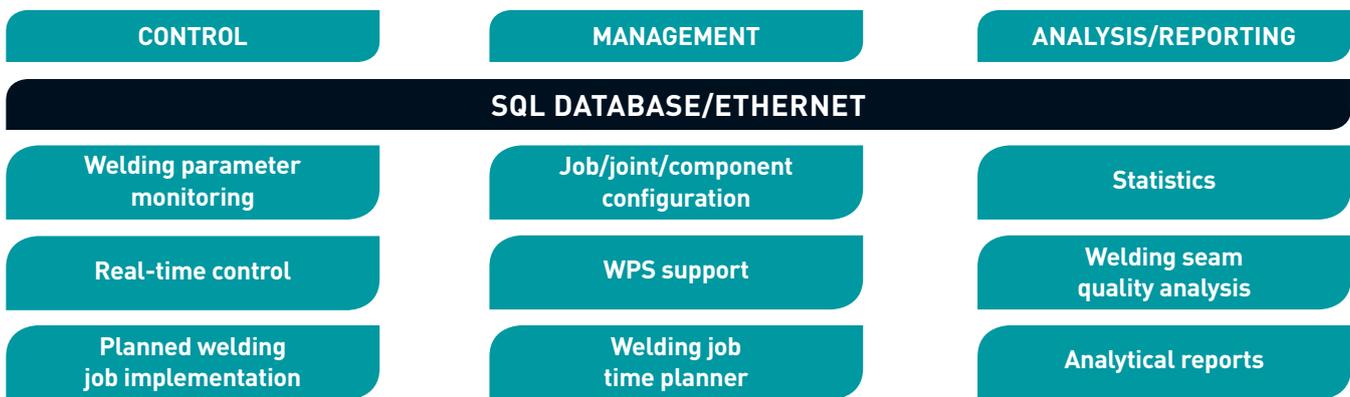
**Advantages:**

- Suitable for manual, automated and robotic welding systems
- Connection of all welding systems and peripherals via EtherNET
- As many welding systems as you like can be monitored from an unlimited number of work stations
- Client server architecture based on SQL database and LAN/WLAN with internet connection
- Network connection of additional peripherals possible (e.g. barcode readers, component meters, input terminals)
- The software is an attractive combination of simple and intuitive menu control and a touchscreen graphical user interface



# Merkle Q.MACS: Modules and software packages.

## THE Q.MACS MODULES:



## Q.MACS SOFTWARE PACKAGES IN LIGHT AND FULL VERSIONS:

Versions	Light version	Full version	Upgrade of Light version		
			Analysis/ reporting	Management	
Item no.	134.434	131.150	134.458	134.460	
CONTROL	Real time job editor	✓	✓	--	--
	Welding job management at machine	✓	✓	--	--
	Monitoring of current, voltage and DV speed	✓	✓	--	--
	Welding data log	✓	✓	--	--
MANAGEMENT	Job templates	✓	✓	--	--
	Connection technologies	✓	✓	--	--
	Component technologies	--	✓	--	✓
	Welding job management (robotic, automated, manual operation)	--	✓	--	✓
	Welding job planner	--	✓	--	✓
WPS configuration	--	✓	--	--	
ANALYSIS	Welding data visualisation table/chart, data-grouping and filter	--	✓	✓	--
	Dynamic reports	✓	✓	✓	--
REPORTING	Print and export analytical reports	--	✓	✓	--
	Report catalogue management	--	✓	✓	--
	Import reports	--	✓	✓	--

Q.MACS software needs to be ordered only once for each network and is available in a light or full version. The light version can be expanded to the full version using two upgrade modules. Any number of welding systems and workstation screens can be connected.

## Merkle Q.MACS Control:

# Monitoring and managing your machinery.

The online management module contains all the instruments you need to control individual welding devices.

All the machinery connected to the system is listed here and their current status is displayed. Selecting a machine brings up its current settings and all of its jobs.

### ■ Monitoring panel

This displays diagrams representing the values of the monitored parameters in real time.

### ■ Direct control editor

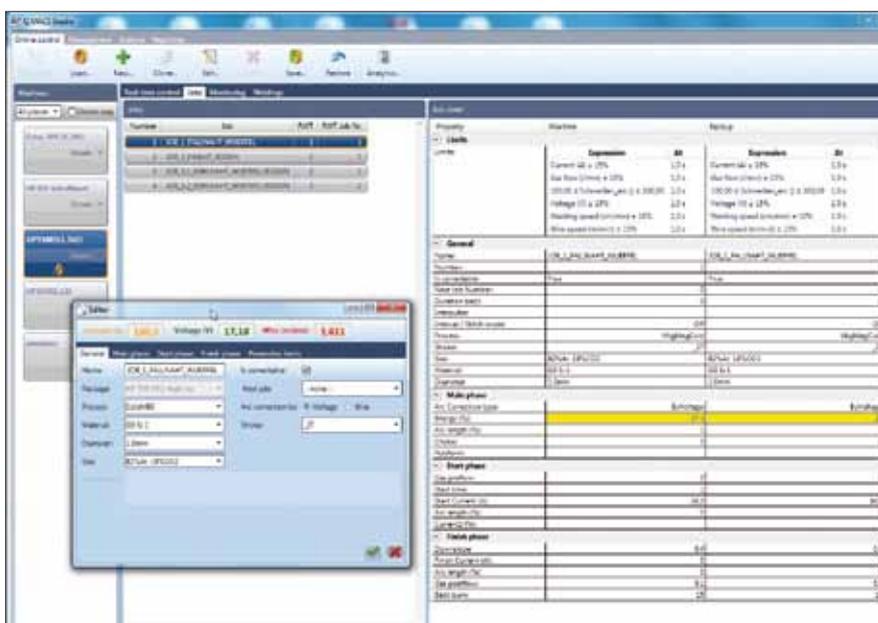
Adjustment of welding parameters for the machine selected in real time.

### ■ Online job management panel

Here is where jobs are entered and transferred to the machine, and where pre-existing jobs on the machine can be edited.



The monitoring panel shows diagrams indicating the values of the parameters monitored in real time.



Online job management panel with direct control editor.

# Merkle Q.MACS Management: Managing process control templates.

The management module is used to control welding process settings that are employed for the direct control of welding machines.

## Joint technologies

Determine the structure and settings for welding a single joint. The same technology can be used in a number of joints for various components.

## Component technologies

Contain the settings for the welding processes and the component seam sets.

Component seams are associated with the appropriate technologies.

## Welding programs

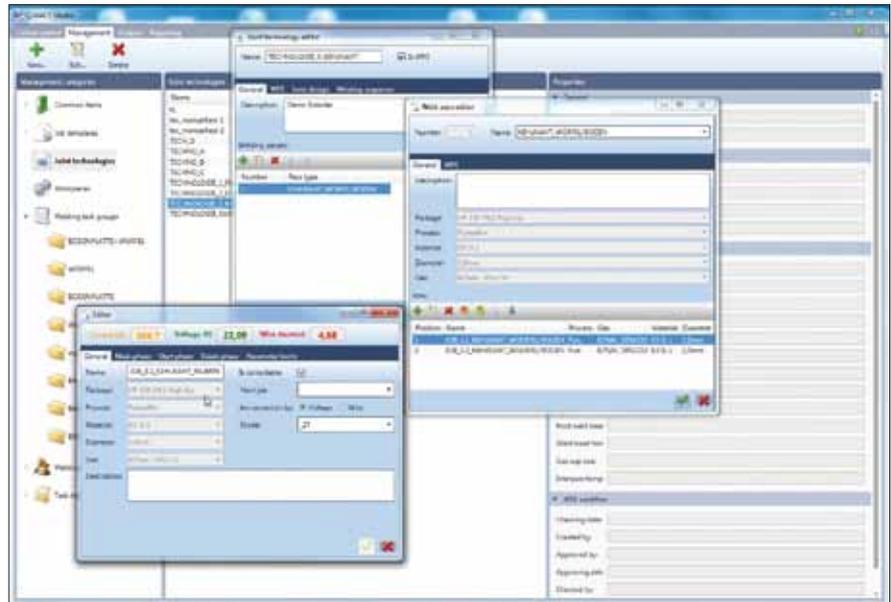
Enable a range of welding jobs including welding components of various types to be carried out on a single machine.

The programs can be used for both manual and robot-controlled welding.

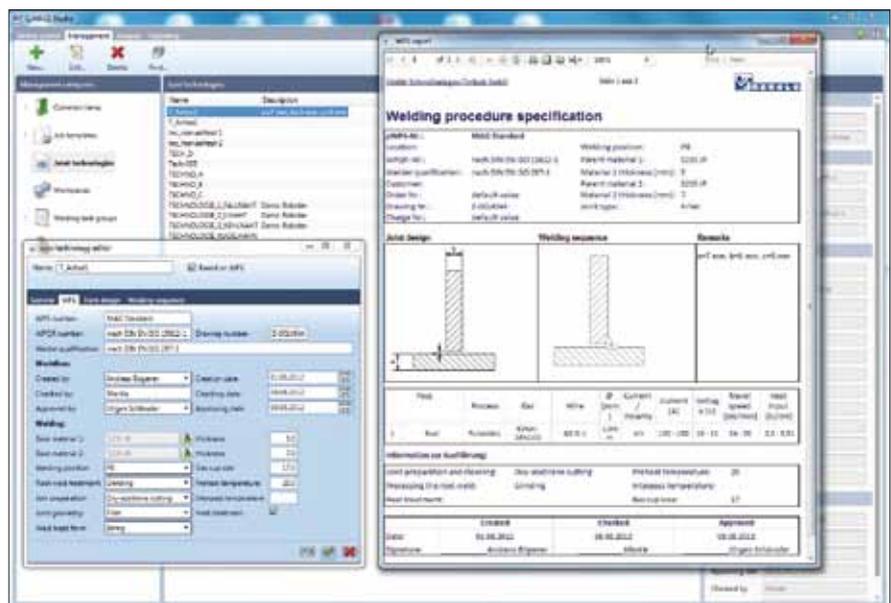
## Planned welding jobs

Are sets of welding jobs that are planned for implementation on a particular machine on a particular day or time.

All of the templates in the management module can be used multiple times!



The management module is used to control welding process settings that are subsequently used for the direct control of the welding machines.



Based on the technologies, WPS (welding Procedure Specifications) can be configured and printed.





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