MICORSTEEL SERIES



Product information

The **MicorSteel** is a MIG-MAG-welding system designed for steel construction, steel structure assembly, structural engineering, and mechanical and plant engineering applications. It is optimised for welding unalloyed steels and flux-cored wires, and combines practical welding (processes) with simple and rapid parameter setting. The ControlPlus operation concept assists the user in selecting the appropriate welding parameters and, thanks to QuickJobs, enables reproducible results in day-to-day steel construction work. In addition, the SpeedArc process and manual metal arc welding, including CEL electrodes, are available.

Product features

- Designed for steel fabrication and structural engineering applications.
- MIG-MAG-welding with steel and cored wire synergic lines.
- Manual metal arc welding, including CEL electrodes.
- Standard SpeedArc process.
- High deposition rate and deep penetration.
- Suitable for workshop and on-site assembly work.
- Robust industrial design for everyday use.
- Fixed set of functions for steel construction applications.

Product advantages and benefits

- Quick to set up thanks to optimised steel programmes and pre-set parameters.
- Enables reproducible results even with different users, thanks to QuickJobs.
- Suitable for businesses with users of varying levels of experience.
- Reduces incorrect settings and rework thanks to application-specific welding programmes and functions.
- Productive welding thanks to high deposition rate, a powerful spray arc and SpeedArc.
- Support for assembly and on-site applications via CEL synergic lines.
- Focus on the functions relevant to steel construction.

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Process table

MIG-MAG	Speed Arc
Electrode	HOT, ANTI STICK, ARC, CEL, VRD
TIG	
Gouging	

■ standard for all models ☐ optionally available

Operation concept



ControlPlus

- "3 steps to weld" operating concept
- Stepless welding current adjustment
- Volt/ampere display
- Optional end crater filling
- 7-stage dynamic arc control
- Synergy function with automatic adjustment
- Manual mode, Synergic lines and SpeedArc lines
- Welding programmes for steel and flux-cored wire applications
- 2-stroke/4-stroke switching, spot welding and custom 4-stroke
- Five QuickJobs for recurring welding tasks
- Predefined range of functions for steel construction applications

Versions



A-system

Mobile compact system with integrated wire feeder; elevated design with widened wheel base.



B-system

Mobile wire feeder system with wire feeder in detachable wire Feeder case, elevated design with widened wheel base. .

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TECHNICAL DATA

	 MicorSteel 400	 MicorSteel 500
MIG-MAG		
- welding range (in Amps)	30-400	30-500
- voltage setting	infinitely variable	infinitely variable
Duty cycle		
- duty cycle 100% 40 °C (in Amps)	300	370
- duty cycle 60% 40 °C (in Amps)	370	430
- duty cycle at max. current 40 °C (in %)	45%	45%
Feeder and wire		
- wire feed unit	4 rolls (2 driven)	4 rolls (2 driven)
- weldable wires steel (in mm)	0,8-1,6	0,8-1,6
Mains		
- mains voltage (in V)	400	400
- phases (50/60 Hz)	3~	3~
- positive mains tolerance (in %)	15%	15%
- negative mains tolerance (in %)	- 15%	- 15%
- mains fuse (in Amps)	32	32
- mains plug	CEE 32	CEE 32
Dimensions and weights		
- power source dimensions (LxWxH) A version (in mm)	880x490x885	880x490x885
- power source dimensions (LxWxH) B version (in mm)	880x490x955	880x490x955
- Dimensions of the MF-08 wire feeder (LxWxH) (in mm)	575x245x434	575x245x434
- Dimensions of the MF-08 wire feeder excluding handle (LxWxH) (in mm)	575x245x380	575x245x380
- Weight of compact power source	74 kg	79 kg
- Weight of the power supply unit in the separate wire feeder system	71 kg	76 kg
- Weight of the wire feeder	10,6 kg	10,6 kg
Standards and approvals		
- standard	EN IEC 60974-1:2018 + A1:2019 EN IEC 60974-2:2019 EN 60974-10:2014 CL.A	EN IEC 60974-1:2018 + A1:2019 EN IEC 60974-2:2019 EN 60974-10:2014 CL.A
- protection class (EN 60529)	IP23S	IP23S
- insulation class	F	F
- designation	CE, S, EAC	CE, S, EAC

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