



MobiMIG Series.

The new transportable multi-talents!



THE NEW TRANSPORTABLE MULTI-TALENTS



MobiMIG 280 K

The Merkle MobiMIG series.

The MobiMIG series from Merkle offers the best performance available, whether on site, at your customers or in the workshop.

Thanks to the compact dimensions and light weight, the MobiMIG is the perfect partner for flexible, transportable welding on the go.

Merkle MobiMIG:
Welding for the present and the future!

The multi-talents in detail:

- MIG/MAG welding
- TIG welding (DC)*
- MMA/stick electrode welding
- Flux core welding with self protecting inner shield wires*
- MIG brazing
- ColdMIG process (option)

*only MobiMIG 180/280 K



MobiMIG 300 K with WK 300



MobiMIG 180 K



1. MIG/MAG welding



2. MMA/electrode welding



3. TIG welding (DC)*

*only MobiMIG 180/280 K

The Merkle MobiMIG Series:

Top Technology for Ultimate Flexibility.

BiPowerPLUS

The times of having to consider which machine to connect to which plug socket are now over!

The new BiPowerPLUS option available for our MobiMIG 280 and 300 K (option) opens new areas of flexibility for welding. In the workshop with 400 V three phase, or on the construction site with 230 V single phase AC, with the automatic voltage recognition you are prepared wherever you happen to find yourself.

The new BiPowerPLUS makes it possible!

The benefits:

- Practical adapter offers the best flexibility
- Connection with 230 V single phase or 400 V three phase



Continuous energy control

The Merkle TEDAC® system offers a stepless remote adjustment and display of the welding energy directly at the welding torch, and this without the extra burden of signal cables or connecting sockets. Using the installed slide switch, push up for more current and down for less. A multi-coloured LED above the switch gives a visual indication of the current setting.



Clear text display

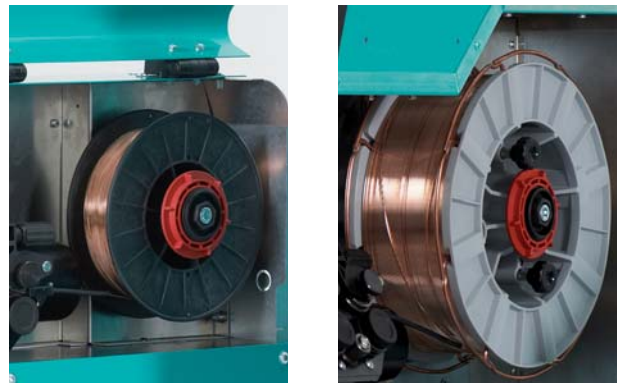
The MobiMIG series machines are all equipped with a synergic function and 1-button-control (synergic mode). The clear text display gives information about current, voltage, wire feed speed and the intended material and throat thickness. Jobs containing a wide range of materials and wire thicknesses are pre-programmed into the machines.



5 kg or 15 kg wire spools

The MobiMIG 180 and 280 K are designed for use with the smaller D 200 (5 kg) wire spools. This keeps the construction dimensions to a minimum and is a major contributing factor to the light weight of these machines.

The MobiMIG 300 K has more internal space available and is designed to use standard D 300 (15 kg) as well as D 200 (5 kg) wire spools.



Water cooling

The MobiMIG 300 K can also be equipped with our WK 300 water cooling unit. The installation is very simple with only a couple of connections needing to be made. Power supply to the cooling unit is from the rear of the power source.

Flexibility is guaranteed. Welding with maximum power and a water cooled torch in the workshop/production, or with a gas cooled torch on the construction site.



4-roller-precision-flange gearbox DV-26

Regardless of the small compact construction, the MobiMIG 280/300 K come equipped with our precision driven 4-roller-flange gearbox DV 26 as standard. The drive rollers are equipped with twin grooves for differing wire diameters, and can be swapped to suit without the need for tools. The generous access to the feed unit makes changing wire a child's play. Due to the EURO connector being flanged directly onto the wire feed unit, a perfect running of the welding wire is always guaranteed.



ColdMIG Process.

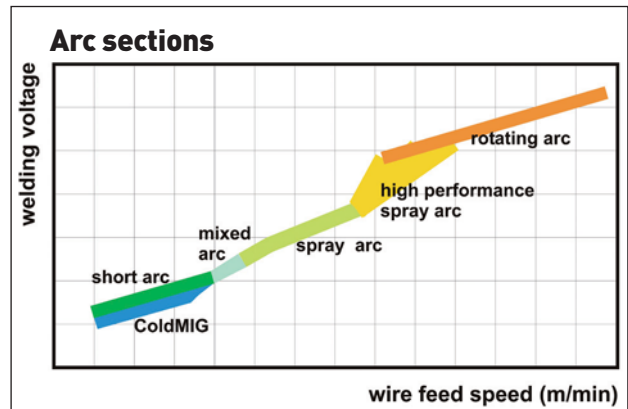
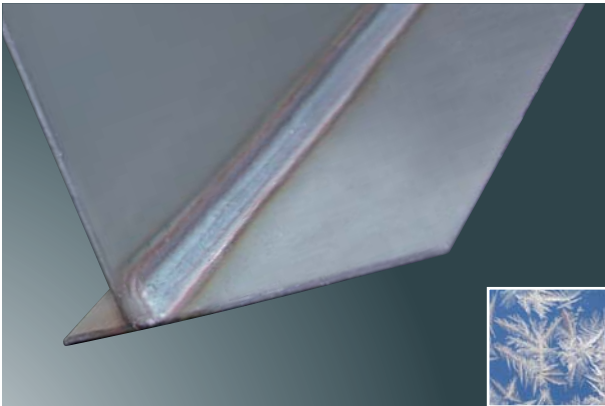
Up to 30% Reduced Heat Input!



ColdMIG process

The Merkle ColdMIG process sets new standards in joining. With as much as 30% less heat input, manual thin sheet welding (0.6 - 3.0 mm) is achieved to perfection.

ColdMIG's high gap bridging capabilities and optimum welding, brazing and soldering attributes when joining mixed or galvanised materials are also world-class features.



Welding current: 20–140 A

Arc voltage: 13.5–20 V

Wire feed speed: 0.7–5 m/mim



Application advantages:

- Weldability of thin plates from 0.6–3.0 mm
- High gap bridging capabilities
- MIG-brazing and soldering with minimum heat input
- Weldability of mixed and galvanised joints

Merkle MobiMIG.

The Portable Genius!



Technical Details	MobiMIG 180 K	MobiMIG 280 K	MobiMIG 300 K
Power supply	1 x 230 V	3 x 400 V	1 x 230 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Prim. continuous power	3.7 kVA	9 kVA	3.7 kVA
Prim. continuous current	16 A	13 A	16 A
Welding current MIG/MAG	25–180 A	25–280 A	25–180 A
Welding current Electrode	10–180 A	10–280 A	10–180 A
Welding current TIG	25–160 A	20–280 A	25–160 A
Open circuit Voltage	64 V	90 V	103 V
Duty cycle 20 % (10 min)	180 A (40 °C)		180 A (40 °C)
Duty cycle 35 % (10 min)		280 A (40 °C)	
Duty cycle 40 % (10 min)			300 A (40 °C)
Duty cycle 50 % (10 min)		280 A (20 °C)	
Duty cycle 60 % (10 min)	110 A (40 °C)	240 A (40 °C)	110 A (40 °C)
Duty cycle 80 % (10 min)			300 A (20 °C)
Duty cycle 100 %	90 A (40 °C)	210 A (40 °C)	90 A (40 °C)
insulation class	IP 23	IP 23	IP 23
Welding processes	MIG/MAG, TIG (DC) LiftTIG, Electrode, ColdMIG (option)	MIG/MAG, TIG (DC) LiftTIG, Electrode, ColdMIG (option)	MIG/MAG, Electrode, ColdMIG (option)
Energy adjustment	Stepless on the machine or on the TEDAC torch	Stepless on the machine or on the TEDAC torch	Stepless on the machine or on the TEDAC torch
Arc length correction	Synergic mode	Synergic mode	Synergic mode
Functions	2-/4-stroke, interval, spot	2-/4-stroke, interval, spot	2-/4-stroke, interval, spot
Adjustable parameters	Arc dynamics (choke), wire burn back, soft start	Arc dynamics (choke), wire burn back, soft start	Arc dynamics (choke), wire burn back, soft start
Display	Clear text display for all parameters	Clear text display for all parameters	Clear text display for all parameters
Power Source	Inverter	Inverter	Inverter
Water cooling	-	-	Option: WK 300
Wire feeder	2-roller-gearbox	2-roller-gearbox	2-roller-gearbox
Wire spool type	D200/5 (5 kg)	D200/5 (5 kg)	D300/15 (15 kg)
Norm	EN 60974-1 "S" / CE	EN 60974-1 "S" / CE	EN 60974-1 "S" / CE
Weight	17 kg	27 kg	32 kg
Dimensions	450 x 210 x 480 mm	470 x 255 x 545 mm	600 x 300 x 565 mm



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- Synergic Pulse Welding Units
- TIG Welding Units
- MMA / Stick Electrode Welding Units
- Plasma Welding and Cutting Units
- Turntables and Roller Drive Units
- Welding and Cutting Torches
- Automation Components and Solutions
- Merkle Robotics

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