



MADE IN GERMANY

COMPACT ONE

Compact Welding Machine



The CompactOne is the smallest and lightest orbital welding machine in the world, combining exceptional portability with powerful performance.

Beyond its compact size and lightweight design, the CompactOne stands out for its user-friendly operation. Its intuitive interface and smartphone-style program assembly allow the machine to automatically generate welding programs, making it incredibly easy to use. Operators can easily customize the machine to meet their specific needs, while simple, discreet notifications ensure smooth communication with the system.

FEATURE

- User-Friendly Operation:** Intuitive display and easy program assembly.
- Automatic Program Creation:** Machine generates welding programs automatically.
- Mass Flow Controller (MFC):** Monitors and documents gas flow.
- Reliable Components:** Durable, high-quality parts from Germany.
- Regular Updates:** Stay current with the latest features and improvements.
- Weld Documentation & Data Transfer:** The power source generates and saves welding documentation after each weld, which can be exported to a computer through the two USB ports.
- Portable Design:** Custom case with trolley option for easy transport.

INSPECTION REPORT

Measuring No.: 228		INSPECTION REPORT		
Factory Name: Factory Name		Date: 2/4/2025 Time: 12:13 PM		
Welder Name / Number: Welder Name / Welder Number		Equipment Number: 6044- Inventory Number: Inventar-Nr Control Number: -----		
Program-No.	Programm Name	Diameter (mm)	Wall (mm)	Tool
96	Program-Name	35.000	2.00	CWH 76 [10]
Nominal Values				
Pre-Purge:	30 s	Min. Max:	0 %	OFF
Rotation Delay:	5 s	Min. U. Arc:	0.0 V	Arc Voltage:
Down Slope:	10 s	Max. U. Arc:	0.0 V	Spec.:
Post Purge:	30 s	Primary Travel:	30 %	Move Back:
Dir. of Rotation:	CW	O2 for Start:	0 ppm	Stop Deg.:
Step Mode:	NO	O2 Welding Max:	0 ppm	Tack:
Current pulsed:	YES	Total Welding Time:	128.5 s	OFF
Parameter for Weld	228	Correction Power:	100 %	
Status:	OK	Corrective Wire:	100 %	
Oxygen:	---	Weld Time:	67 s	
Gasflow Ø:	15.0 l/min	Energy Ø:	159 J/mm	
Sectors				
No.:	NOMINAL	MEASURED		
	(Deg)	I-Nom.(A) Hi / Lo	I-Meas.(A) Hi / Lo	U-Meas.(V) Hi / Lo
1	90°	90.0/30.0	0.26/0.26	125/125
2	180°	87.3/30.0	0.26/0.26	125/125
3	270°	84.6/30.0	0.26/0.26	125/125
	365°	82.1/30.0	0.26/0.26	



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TECHNICAL DATA

- Welding process: TIG DC, constant or pulsed, with or without Oscillation, AVC and wire feeder
- Input power: Single phase, 230 V ± 15% - 50/60 Hz
- Open circuit voltage VRD: 76 - 87 V
- Main fuse: 16 A
- Insulation class: F
- Protection class: IP 23 S
- Welding current: 2 to 180 A (@ 230 V ac)
- Duty cycle (230V - 40°C): 100% - 130 A / 60% - 150 A / 35% - 180 A
- Fast pulsing up to 2 kHz
- Motor controls:
 - Torch rotation: constant or pulsed
 - Wire feeder: constant or pulsed with automatic retract
- Power source cooling: Temperature-controlled ventilation
- Display / Recording: Welding current, Arc Voltage, electrode angular position, welding and wire speed
- Connectivity (Documentation, Updates): 2 x USB
- Dimensions (L x W x H): 483 x 185 x 326 mm
- Weight: 14,5 kg (without cooling unit)
- Standard: EN 60974-01
- Designation / Certification: CE, S

ACCESSORIES

- Wired and wireless remote controls RCplus+
- 2-wheel trolley
- Our full range of welding heads (and from competitors)
- Water cooling unit WUK 7(CoolerOne)
- Cold wire feeder
- TIG hand torch
- Oxygen analyzer
- Bluetooth printer
- USB port for Bluetooth connection printer or oxygen analyzer



Water Cooler
WUK 7 (CoolerOne)



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