



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.

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THE ORBITAL WELDING SPECIALISTS

INSPECTION REPORT

Measuring No.: 228
Factory Name: Factory Name
Welder Name / Number: Welder Name / Welder Number

Date: 2/4/2025 Time: 12:13 PM
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
Rotation Delay: 5 s
Down Slope: 10 s
Post-Purge: 30 s
Dir. of Rotation: CW
Stop Mode: NO
Current pulsed: YES

Min-Max

Max I_{pre}:
Max. U_{pre}:
Max. U_{arc}:
Primary Travel:
O₂ for Start:
O₂ Welding Max:
Total Welding Time:

0 %
0.0 V
0.0 V
30 %
0 ppm
0 ppm
128.5 s

Wire

OFF
Move Back:
Stop Del.:
Jack
Count:
Weldcurrent:
Weldtime:
Delay:

OFF

ASC

Voltage:
Speed:
Move Back:
Start Distance:
OSC
Speed:
Width/2:
Delay:
Gap:

OFF

Parameter for Weld

Status: OK
Oxygen: ---
Gasflow Ø: 15.0 l/min

228
150
125/125
Correction Power:
Correction Wire:
Weld Time:
Energy Ø:

100 %
100 %
67 s
159 J/mm

Sectors

No.:	NOMINAL	I-Nom.(A)	I (A)	v (mm/min)	MEASURED	I-Meas.(A)	U-Meas.(V)	v (mm/min)	Q (J/mm)
	(Deg)								
	Start_End				Start_End				
1	90°	90.0/30.0	0.260/26	125/125	90°	90.0/30.0	0.260/26	125/125	125/125
2	180°	87.3/30.0	0.260/26	125/125	180°	87.3/30.0	0.260/26	125/125	125/125
3	270°	84.6/30.0	0.260/26	125/125	270°	84.6/30.0	0.260/26	125/125	125/125
4	360°	82.1/30.0	0.260/26	125/125	360°	82.1/30.0	0.260/26	125/125	125/125



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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 \pm 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



**Pro2stick
O2 Analyzer**



**Water Cooler
WUK 7 (CoolerOne)**



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