

# 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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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.	Program-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<sub>pre</sub>: 0 %  
Min. U<sub>Arc</sub>: 0.0 V  
Max. U<sub>Arc</sub>: 0.0 V  
Primary Travel: 30 %  
O<sub>2</sub> for Start: 0 ppm  
O<sub>2</sub> Welding Max: 0 ppm  
Total Welding Time: 128.5 s

Wire

Delay: ---  
Move Back: ---  
Stop Deg.: ---

Jack

Count: ---  
Weldcurrent: ---  
Weldtime: ---  
Delay: ---

ASC

OFF  
Speed: ---  
Start Distance: ---  
Speed: ---  
Width/2: ---  
Delay: ---  
Gap: ---

OFF

---  
---  
---  
---  
---  
---

Parameter for Weld

Status: 228  
OK  
Oxygen: ---  
Gasflow Ø: 15.0 l/min

Correction Power: 100 %  
Correction Wire: 100 %  
Weld Time: 67 s  
Energy Ø: 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 (l/mm)
1	(Deg)				Wire H/L	H/L			H/L
1	90°	90.0/30.0	0.260/26	125/125		90.0/30.0	0.260/26	125/125	
2	180°	87.3/30.0	0.260/26	125/125					
3	270°	84.6/30.0	0.260/26	125/125					
4	360°	82.1/30.0	0.260/26	125/125					



MADE IN GERMANY

## 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+ and RC Mini
- 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)**



+49 (0)6092 822 940  
info@orbitalservice.de