

# 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: 24/02/25 Time: 12:13 PM

Equipment Number: 6044-

Inventory Number: Inventory 24

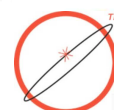
Control Number: -----

| Program-No. | Program-Name | Diameter (mm) | Wall (mm) | Tool        |
|-------------|--------------|---------------|-----------|-------------|
| 06          | Program-Name | 35.000        | 2.00      | CWH 76 (10) |

|                        |      |                     |         |              |            |                 |            |
|------------------------|------|---------------------|---------|--------------|------------|-----------------|------------|
| <b>Standard Values</b> |      | <b>Min/Max</b>      |         | <b>Wire</b>  | <b>OFF</b> | <b>ARC</b>      | <b>OFF</b> |
| Pre Purge:             | 30 s | Max. I/A:           | 0.0 V   | Delay:       | ---        | Voltage:        | ---        |
| Rotation Delay:        | 5 s  | Min. U/A:           | 0.0 V   | Move Back:   | ---        | Speed:          | ---        |
| Down Slope:            | 10 s | Max. U/A:           | 0.0 V   | Stop Seq.:   | ---        | Move Back:      | ---        |
| Post Purge:            | 30 s | Primary Travel:     | 36 %    | Touch:       | OFF        | Start Distance: | ---        |
| Dir. of Rotation:      | CW   | OS for Start:       | 0 ppm   | Current:     | ---        | Speed:          | ---        |
| Stop Mode:             | NO   | OS Welding Max:     | 0 ppm   | Workcurrent: | ---        | Wash2:          | ---        |
| Current pulse:         | YES  | Total Welding Time: | 128.5 s | Weldtime:    | ---        | Delay:          | ---        |
|                        |      |                     |         | Delay:       | ---        | Gap:            | ---        |

|                           |            |                   |         |
|---------------------------|------------|-------------------|---------|
| <b>Parameter for Weld</b> | 228        | Correction Power: | 100 %   |
| Station:                  | OK         | Correction Wire:  | 100 %   |
| Oxygen:                   | ---        | Weld Time:        | 87 s    |
| Gasflow ID:               | 15.0 l/min | Entry ID:         | 129.7mm |

| SECTIONS |         |           |           | MEASURED   |            |            |            |
|----------|---------|-----------|-----------|------------|------------|------------|------------|
| No.:     | NOMINAL | I-Nom (A) | I-Set (A) | v (mm/min) | I-Mess (A) | U-Mess (V) | v (mm/min) |
| 1        | 90°     | 50.0/30.0 | 0.200/20  | 125/125    | 50.0/30.0  | ---        | ---        |
| 2        | 180°    | 87.3/30.0 | 0.200/20  | 125/125    | ---        | ---        | ---        |
|          | 220°    | 84.6/30.0 | 0.200/20  | 125/125    | ---        | ---        | ---        |



**ORBITAL SERVICE UK LTD**  
Making The Weld Go Round™

ORBITAL WELDING EQUIPMENT - SYSTEMS & PROCESS TOOLS  
EMAIL: SALES@ORBITALSERVICE.CO.UK WEBSITE: WWW.ORBITALSERVICE.CO.UK

OFFICE & WORKSHOP: 25 WOOLFELD, SANDY, BEDS, SG19 1AR  
EMAIL: SALES@ORBITALSERVICE.CO.UK  
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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

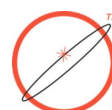
- Wired and wireless remote controls RCplus+ and RC Mini
- 2-wheel trolley
- Our full range of welding heads (and from competitors)
- Water cooling unit WUK 7(CoolerOne)
- Cold wire feeder
- TIG hand torch
- Oxygen analyzer
- Bluetooth printer
- USB port for Bluetooth connection printer or oxygen analyzer



**Pro2stick  
O2 Analyzer**



**Water Cooler  
WUK 7 (CoolerOne)**



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