

# ORBIWELD 25 GC

## Micro weld head

With its slim design, seamless parts supply thanks to fast customer service and proven compatibility with existing systems, the ORBIWELD 25 GC sets standards in high-precision pipe welding. Specially developed for the semiconductor industry, it enables simple, fast and reliable welding of thin-walled tubes - even in confined spaces.

Compatibility with market standards makes it easy to switch to the latest Orbitalum technology



Extremely narrow design for use in confined spaces, e.g. in the semiconductor industry



Removable clamping cassettes especially for inline assembly or prefabricated production of modules



For small pipe diameters 6,0 mm - 34,0 mm (0.236" - 1.339")



Integrated control panel for controlling the power source



**Compact, powerful and versatile - the ORBIWELD 25 GC, OW 25 GC for short, impresses with its slim design and state-of-the-art technology for demanding welding tasks in the semiconductor industry. The "GC" stands for the integrated gas cooling system, which ensures optimum cooling for intensive applications.**

The OW 25 GC was specially developed for applications that require maximum precision in the tightest of spaces. With its slim design and modular construction, it is the ideal solution for semiconductor production and similar industries.

Thanks to the integrated gas cooling, the system remains reliable and powerful even during intensive use - for consistently high welding quality with short cycle times.

Thanks to its high level of compatibility with standard clamping cassettes, the OW 25 GC enables seamless integration into existing systems.

Its clamping cassette has been specially optimized for inline assembly and for the prefabricated production of modules, so that tubes can be positioned easily and precisely.

It is controlled directly via the integrated control panel in the handle, allowing all important welding functions to be adjusted quickly and conveniently - no additional operator is required at the welding power source. An LED display provides information on the current operating status and thus ensures maximum process control.

Thanks to the electrode setting gauge supplied, precise welded joints are possible with minimal effort. In addition, the pipe center gauge attached to the cassette ensures that the pipe joint is perfectly aligned - for consistent and repeatable weld seams.

The OW 25 GC is suitable for pipe diameters of 6.0 mm - 34.0 mm (0.236" - 1.339") and its high load capacity enables a long duty cycle with minimal electrode wear.

# ORBIWELD 25 GC



Illustration: Robust, compact and handy design.

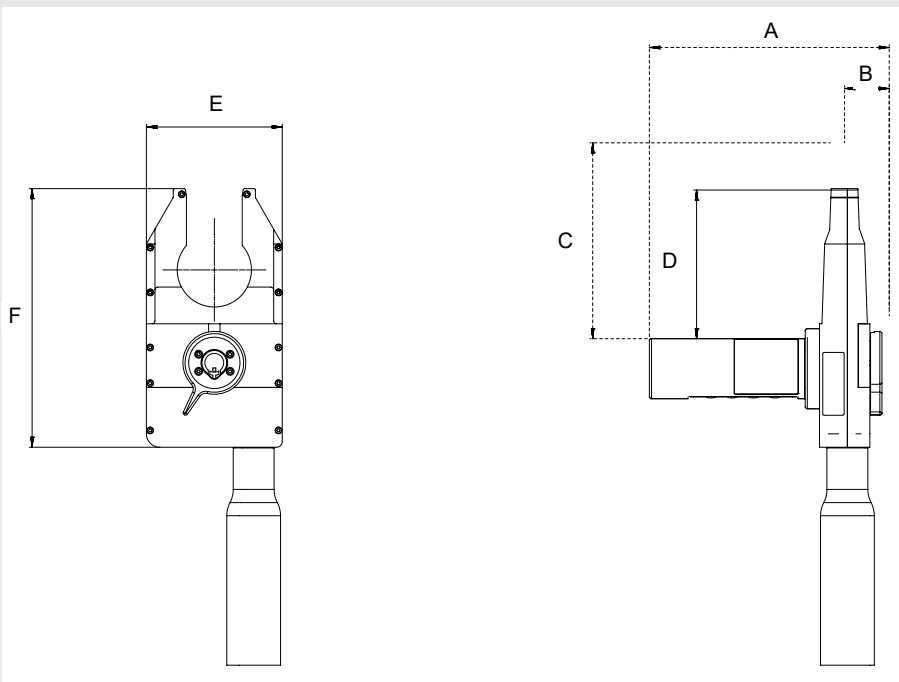


Illustration: Integrated control panel - this means that all commands.

| AREA OF APPLICATION                   | ORBIWELD 25 GC                       |
|---------------------------------------|--------------------------------------|
| Code                                  | 819000001                            |
| Pipe OD, min. - max.                  | 6 ... 38.10 mm<br>0.236 ... 1,500 in |
| Electrode diameter                    | 1.6 / 2.4 mm<br>0.063 / 0.094 in     |
| Machine weight including hose package | 6.00 kg<br>13.228 lbs                |
| Hose package length                   | 7.5 m<br>24.6 ft                     |

| ARTICLE                                                                                                                                                                                                                                                                 | CODE      | QUANTITY           | UNIT |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------|------|
| ORBIWELD 25 GC                                                                                                                                                                                                                                                          | 819000001 | 1                  | ST   |
| Tool set OW 25                                                                                                                                                                                                                                                          | 819030001 | 1                  | ST   |
| Electrode setting gauge cpl. OW 25                                                                                                                                                                                                                                      | 819050007 | 1                  | ST   |
| Safety clamp hose assembly OW                                                                                                                                                                                                                                           | 826030010 | 1                  | ST   |
| Transport case OW 25 GC                                                                                                                                                                                                                                                 | 819030004 | 1                  | PC   |
| General safety instructions for closed weld heads                                                                                                                                                                                                                       | 836060101 | 1                  | ST   |
| Operating instructions & spare parts list, OW 25 GC<br>Download-Link PDF:<br><a href="https://www.orbitalum.com/de/download.html">https://www.orbitalum.com/de/download.html</a><br> | 819060201 | Unlimited<br>(PDF) | ST   |

Subject to change without notice.



*Dimensions OW 25 GC without cassette*

| DIMENSIONS | DIMENSION |        |
|------------|-----------|--------|
|            | [mm]      | [inch] |
| A          | 167,77    | 6.605  |
| B          | 31,27     | 1.231  |
| C          | 137,04    | 5.395  |
| D          | 104,01    | 4.095  |
| E          | 95        | 3.740  |
| F          | 180,91    | 7.122  |

| ARTICLE        | CODE      | MACHINE WEIGHT KG* | TUBE OD KG |
|----------------|-----------|--------------------|------------|
| ORBIWELD 25 GC | 819000001 | 6,00               | 13,20      |



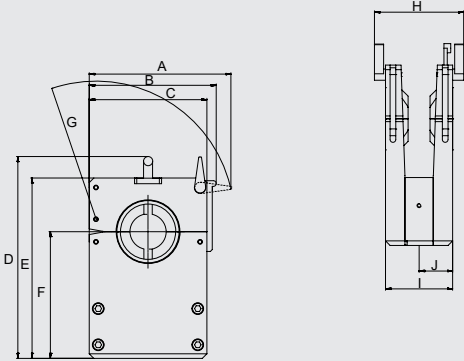
Illustration: Clamping cassette for OW 25 GC

## Clamping cassette for OW 25 GC

Aus Edelstahl. Abnehmbare Clamping cassette especially for inline assembly or prefab production of modules. For holding clamping inserts. A captive pipe center gauge attached to the cassette ensures the exact positioning of the pipe joint to be welded. The clamping cassettes are supplied in a robust, lockable plastic box.

- Scope of delivery:
- 1 x Pipe centering gauge
- 1 x Cassette alignment gauge
- 1 x Hexagon wrench 3/32"
- 1 x Hexagon wrench 5 /32"
- 1 x Plastic box

Suitable clamping inserts for different pipe diameters must be ordered separately.

| DIMENSION | [MM]*  | [INCH]* | DIMENSION DRAWING                                                                   |
|-----------|--------|---------|-------------------------------------------------------------------------------------|
| A         | 99.34  | 3,911   |  |
| B         | 89.1   | 3,508   |                                                                                     |
| C         | 82.55  | 3.25    |                                                                                     |
| D         | 141.63 | 5,576   |                                                                                     |
| E         | 126.6  | 4,984   |                                                                                     |
| F         | 88.91  | 3,500   |                                                                                     |
| G         | 120°   | 120°    |                                                                                     |
| H         | 62.54  | 2,462   |                                                                                     |
| I         | 47.04  | 1,852   |                                                                                     |
| J         | 23.52  | 0.926   |                                                                                     |

\*Does not apply to angle G

| ARTICLE                     | CODE      | KG   |
|-----------------------------|-----------|------|
| Clamping cassette cpl. OW25 | 819050010 | 1,00 |