

# Laboratory Package

## for Mobile Welder

The Laboratory Package is optimally tailored to the needs of the semiconductor industry. In this industry, where the highest demands are placed on the quality of weld seams, precision and reliability, the package offers the ideal solution. The Laboratory Package combines the Mobile Welder with the gas-cooled ORBIWELD 17 GC and was developed specifically for the installation and hook-up of thin-walled pipes.



**Orbital welding plays an important role in the semiconductor industry. High demands are placed on welding work in this industry. With the Laboratory Package, automated tube welding is possible anytime and anywhere. The required precision, reliability and high quality of the weld seams can be easily achieved.**

### Laboratory Package

The Laboratory Package includes the Mobile Welder and the ORBIWELD 17 GC welding head. The Mobile Welder is a portable orbital welding power source that has been specially developed for modern pipeline construction. It has a lightweight and compact design and impresses with its simple and intuitive operation. The enclosed, gas-cooled ORBIWELD 17 GC welding head is particularly suitable for small pipe dimensions in the range 3.0 - 17.2 mm (0.118" - 0.677"). The welding head

impresses with its extremely narrow design and can be used particularly in confined spaces, as is common in the semiconductor industry. The OW 17 GC has a removable clamping cassette that can be easily positioned around the tubes to be welded during inline assembly on the construction site as well as in the prefabrication of modules in the workshop. The welding head is also equipped with an integrated control panel for controlling the power source.

### All for one price

The Laboratory Package offers a price advantage over the individual components and makes getting started with orbital welding particularly attractive.

### OPTIONAL: Documentation

The Mobile Welder's range of functions can be expanded at any time via upgrade options. Especially in the semiconductor industry, it makes sense to activate software upgrades in order to have a wide range of smart functions available, such as welding

data logging and digital welding gas management. Comprehensive documentation is crucial for checking and ensuring compliance with quality standards. It also provides traceability of materials, welding parameters and other relevant information to ensure weld seam quality.

Get started now with the Laboratory Package. Weld high-quality pipe joints simply and easily, anytime and anywhere. With optional upgrade options, the Mobile Welder is able to grow with the challenges at any time.



Mobile Welder



Mico weld head OW 17 GC with clamping cassette

Interface  
orbital weldingInterface  
manual weldingMW gas-cooled manual TIG torch  
with 6 m hose package (optional)

Clamping cassette OW 17 (not included in the scope of delivery)

## Laboratory Package

### Mobile Welder + Orbiweld 17 (GC)

| ITEM               | COMPONENTS                               | CODE        |
|--------------------|------------------------------------------|-------------|
| Laboratory Package | Mobile Welder + micro weld head OW 17 GC | 854 001 005 |

| SCOPE OF DELIVERY                                 | LABORATORY PACKAGE |
|---------------------------------------------------|--------------------|
| Mobile Welder                                     | ●                  |
| Shoulder strap MW                                 | ●                  |
| Power cable DE                                    | ●                  |
| Hose connection set                               | ●                  |
| Quick Start Guide                                 | ●                  |
| General safety instructions welding power sources | ●                  |
| Calibration certificate                           | ●                  |

|                                                     |   |
|-----------------------------------------------------|---|
| • 1 micro weld head ORBIWELD 17 GC                  | ● |
| • 1 transport box                                   | ● |
| • 1 tool set                                        | ● |
| • 1 safety clamp hose assembly                      | ● |
| • 1 electrode distance gage                         | ● |
| • 1 General safety instructions                     | ● |
| • Operating instructions and spare parts list (PDF) | ● |

### Available upgrade options:

-  ORBICool MW (Code 854 030 301)
-  Software MW+ (Code 854 030 302)
-  Connectivity LAN/IoT/VNC\* (Code 850 080 001)

\*Requires upgrade option software MW+.

Detailed information on our upgrade options can be found on our home page at

<https://www.orbitalum.com/en/products/product-details/mobile-welder.html>



### Suitable accessories (optionally available):

- Clamping cassette OW 17
- Gas-cooled TIG manual torch MW
- Upgrade options
- Bar code/QR code scanner
- Double pressure reducer
- Hose assembly extensions
- ORBIPURGE Forming set
- ORBmax residual oxygen meter
- Ground cable
- Electrode grinders ESG
- USB WLAN stick