

ORBIWELD 12

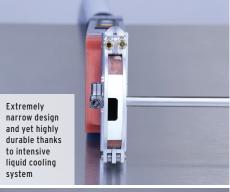
Compact TIG weld head

- ideal for tight spaces

Micro weld head

It doesn't get any smaller or more effective than this: Thanks to its extremely narrow construction the OW 12 offers a unique diversity of functions as well as a high duty cycle previously unknown in weld heads of this size through its liquid cooling. This micro weld head is a compact space-saving marvel and guarantees continually reproducible, high-quality weld seams, even with high currents. Particularly suitable for welding all common microfittings!







The OW 12 with its small-sized modules - basic machine, clamping cartridges and clamping inserts - is the ideal tool for work under tight spaces such as the semiconductor industry, aerospace, pharmaceutical industry as well as the ultra pure water supply sectors.

All the important commands for welding can be transmitted to the power supply via a control panel built into the robust and durable aluminum handle, so that no additional remote control is required.

The removable clamping cartridge enables accurate alignment with the parts to be welded, even where there is very little space.

ADDITIONAL FEATURES:

- Toolless quick change system for clamping cartridges and clamping inserts
- Wide clamping cartridge (Type "B") with exchangeable clamping shells for standard applications
- Extremely narrow clamping cartridges (Type "A") for welding microfittings and for other applications with very limited clamping lengths
- The head is 5.7 kg (12.6 lbs) light. All connections for electricity, gas and cooling water are firmly integrated in the OW 12
- To increase productivity, the optional ORBITWIN switching unit allows working with up to two heads in an alternating fashion, thus reducing conversion times and downtimes considerably
- Including highly flexible hose package (length: 7.5 m/24.6 ft) with strain relief to the power source - optionally extendable to up to 20.0 m (64 ft)

The success model OW 12 has been optimized even further!

The result: A well-engineered weld head with unequaled robustness, high ease of use and even higher performance, for example through:

- ✓ Higher temperature stability
- ✓ Improved ignition characteristics
- ✓ Optimized rotor guidance
- ✓ Optimized weld gas control
- √ Liquid-cooled
- ✓ Integrated control panel
- √ 7.5 m (24.6 ft) hose package





Robust and stable aluminum handle with integrated control panel



www.orbitalum.com

Quick change system for clamping shells



Particularly suitable for welding all common microfittings



Diameter-specific clamping cartridges – available separately



Aluminum clamping inserts for OW 12, type "B" (wide) – available separately



Comprehensive range of accessories, e.g. ORB-max residual oxygen meter

POSSIBLE APPLICATIONS OW 12:	MICROFITTING- TO-MICROFITTING	MICROFITTING- To-Tube	TUBE- TO-TUBE	ADVANTAGES	
Clamping cartridges, type "A" (narrow)	Х	Х	Х	High flexibility thanks to narrow design	
Clamping cartridges, type "B" (wide)			Х	Low cost due to exchangeable clamping inserts	

APPLICATION RANGE	ORBIWELD 12				
Code	821 000 010				
Tube OD, min max.	3.0 - 12.7 mm 0.118" - 0.500"				
Electrode Ø	1.0 mm 0.039"				
Machine weight including hose package	4.8 kg 10.6 lbs				
Hose package length	7.5 m 24.6 ft				
SCOPE OF DELIVERY					
Including:	1 Micro weld head ORBIWELD 12 1 Durable storage and shipping case 1 Tool set 1 Power connector adapter 1 Feeler gauge 1 Operating instructions and spare parts list				
Suitable accessories (available option):	Clamping cartridges for OW 12, type "A" (narrow) Clamping cartridge for OW 12, type "B" (wide) Clamping inserts for OW 12, type "B" (wide) ESG tungsten grinders ORBmax residual oxygen meter ORBIPURGE forming set Hose package extensions WS2 tungsten electrodes				

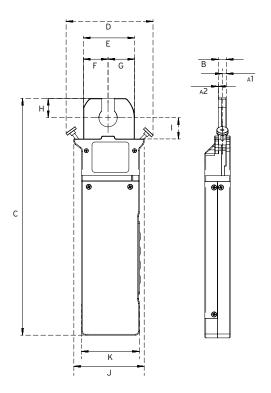
DIMENSIONS			ELECTRODE INTERVAL					
ORBIWELD 12	DIMENSION			RIDGE "A"	CARTRIDGE TYPE "B"			
	[MM]	[INCH]	[MM]	[INCH]	[MM]	[INCH]		
Dimension "A1"	4.25	0.167	6.35	0.250	15.60	0.614		
Dimension "A2"	3.75	0.148	5.85	0.230	15.10	0.594		
Dimension " B "	8.00	0.315	12.20	0.480	30.70	1.209		
Dimension "C"	245.70	9.673						
Dimension " D "	90.00	3.543						
Dimension " E "	53.00	2.087						
Dimension " F "	25.50	1.004						
Dimension " G "	27.50	1.083						
Dimension " H "	20.00	0.787						
Dimension "I"	22.00	0.866						
Dimension " J "	73.00	2.874						
Dimension " K "	60.00	2.362						



ORBIWELD 12 with narrow clamping cartridge (type "A")



ORBIWELD 12 with wide clamping cartridge (type "B")



The technical data are not binding. They are not warranted characteristics and are subject to change.