ORBIWELD 19 HD

Micro weld head with robust clamping mechanism

Precise, robust and powerful - that's the OW 19 HD micro weld head. As a continuation of the proven OW 19 orbital weld head, the HD version has a high load capacity. The use of a robust clamping mechanism guarantees a long service life with consistently precise weld seam quality. The OW 19 HD is particularly suitable for the installation and hook-up of pipes in the semiconductor industry. Conversion between OW 19 and OW 19 HD is possible at any time.



The OW 19 HD is a continuation of the proven OW 19 micro weld head. The name suffix "Heavy Duty" suffix highlights the optimized service life and clamping force compared to the narrower basic version of the OW 19.

Robust and stable

The OW 19 HD was developed to withstand extreme loads. This includes a long service life and the completion of many welds within a very short time. Its design guarantees robust and reliable performance, even in demanding work environments.

Liquid-cooled

To ensure the optimum temperature even during intensive welding work, the OW 19 HD is equipped with efficient liquid cooling. This not only ensures constant performance, but also a longer service life for the welding head.

Optimized clamping mechanism

The use of a robust clamping mechanism not only ensures a high clamping force, but also precise and stable pipe alignment. The practical clamping fasteners enable convenient operation. The flip cover makes it easy to check the position of the electrodes and ensures that the pipes to be welded are aligned precisely.

Easy to operate

Like the OW 19, the OW 19 HD has a control panel integrated into the aluminum handle. All relevant functions can be controlled via the control panel. In addition, all orbital welding power sources from Orbitalum automatically recognize the head and its properties, so that the operator only has to call up his specified welding program and start the process before welding begins. The head weighs 6.5 kg (14.3 lbs). The hose package attached to the welding head has a length of 7.5 meters (24.6 feet). This allows the user to move and work freely around the power source.

Micro weld head

with robust

clamping mechanism



Existing OW 19 welding heads can be easily converted to the OW 19 HD welding head variant using a conversion kit. (see "ORBIWELD 19" and "Conversion kit OW 19 HD")

Orbital welding systems and accessories for high-purity process installations

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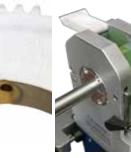






Robust and stable aluminum handle with integrated control panel

Practical tension locks for convenient one-handed operation Easier insertion of the electrodes due to markings for Ø 1.0/1.6 mm (0.039"/0.063")



Flip up weld head cover "Flip Cover



Diameter-specific clamping inserts (each 4-part, wide and narrow) available separately

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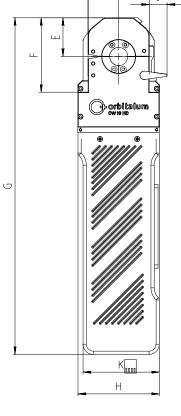


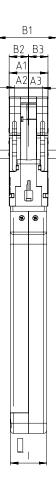
Wide accessories program, e.g. ORBmax residual oxygen meter

APPLICATION AREA	ORBIWELD 19 HD
Code	822 000 011
Pipe OD, min max.	3,0 - 19,05 mm 0.118 - 0.750 in
Electrode diameter	1,0 / 1,6 mm 0.039 / 0.063 in
Machine weight including hose package	6,5 kg 14.3 lbs
Hose package length	7,5 m 24.6 ft
SCOPE OF DELIVERY	
Including:	 1 micro weld head ORBIWELD 19 HD 1 transport case

including.	
	1 transport case
	1 tool set
	 1 feeler gauge
	1 General safety instructions for closed weld heads
	 Operating instructions and spare parts list (PDF)
Suitable accessories	Clamping inserts for OW 19 HD
(optionally available):	ESG electrode grinders
	ORBmax residual oxygen meter
	Hose package extensions
	WS2 tungsten electrodes

DIMENSIONS			ELECTRODE GAP		
ORBIWELD 19 HD		DIMENSION	CLAMPING INSERT TYPE "W"		
	[MM]	[INCH]	[MM]	[INCH]	
Dimension "A1"	36,00	1.417			
Dimension "A2"					
Dimension "A3"					
Dimension "B1"	55,20	2.173			
Dimension "B2"			18,00	0.709	
Dimension "B3"			18,00	0.709	
Dimension "C"	57,20	2.252			
Dimension "D"	28,60	1.126			
Dimension "E"	36,00	1.417			
Dimension "F"	69,50	2.736			
Dimension "G"	31,50	1.240			
Dimension "H"	76,20	3.000			
Dimension "I"	34,00	1.339			
Dimension "J"	16,60	0.654			
Dimension "K"	71,20	2.803			





Technical specifications are non-binding. They do not constitute any assurance of properties. We reserve the right to make changes.





ORBIWELD 19 HD

Micro weld head OW

ORBIWELD 19 HD

Properties, application area, technical specifications and delivery scope, see page 2.

Clamping inserts are not included in the scope of delivery, see page 4.

ITEM	CODE	MACHINE WEIGHT KG*	SHIPPING WEIGHT Kg
Micro weld head OW 19 HD	822 000 011	6,500	14,800

* Machine weight including hose package

Suitable accessories (optionally available):

- Clamping inserts for OW 19 HD
- Welding current connection adapter set

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Clamping inserts for OW 19 HD

A clamping insert consists of 4 individual parts (2 inserts per side).

ITEM	PIPE OD		CODE
	[MM]	[INCH]	
Clamping insert for OW 19 HD, 4-part	3,00	0.118	822 002 201
Clamping insert for OW 19 HD, 4-part	3,18	0.125	822 002 202
Clamping insert for OW 19 HD, 4-part	6,00	0.236	822 002 203
Clamping insert for OW 19 HD, 4-part	6,35	0.250	822 002 204
Clamping insert for OW 19 HD, 4-part	8,00	0.315	822 002 205
Clamping insert for OW 19 HD, 4-part	9,53	0.375	822 002 206
Clamping insert for OW 19 HD, 4-part	10,00	0.394	822 002 207
Clamping insert for OW 19 HD, 4-part	12,00	0.472	822 002 208
Clamping insert for OW 19 HD, 4-part	12,70	0.500	822 002 209
Clamping insert for OW 19 HD, 4-part	13,00	0.512	822 002 210
Clamping insert for OW 19 HD, 4-part	13,50	0.531	822 002 211
Clamping insert for OW 19 HD, 4-part	13.70	0.539	822 002 212
Clamping insert for OW 19 HD, 4-part	14,00	0.551	822 002 213
Clamping insert for OW 19 HD, 4-part	15,00	0.591	822 002 214
Clamping insert for OW 19 HD, 4-part	15,88	0.625	822 002 215
Clamping insert for OW 19 HD, 4-part	16,00	0.630	822 002 216
Clamping insert for OW 19 HD, 4-part	17,20	0.677	822 002 217
Clamping insert for OW 19 HD, 4-part	18,00	0.709	822 002 218
Clamping insert for OW 19 HD, 4-part	19,00	0.748	822 002 219
Clamping insert for OW 19 HD, 4-part	19,05	0.750	822 002 220

Other accessories for orbital welding

- ESG electrode grinders, see page 98
- ORBmax residual oxygen meter, see page 102
- Hose package extensions, see page 106
- WS2 tungsten electrodes, see page 106
- Welding current connection adapter set, see page 107



Clamping insert for OW 19 HD 4-part

GESCHLOSSENE ORBITALSCHWEISSKÖPFE