



ORBIWELD 115, 170

Enclosed orbital weld heads

The ORBIWELD series is characterized by very high thermal resistance. It is therefore particularly suitable for applications in the chemical, pharmaceutical, food and beverage industry, where ever greater demands are made on the closed weld heads by ever greater tube diameters and wall thicknesses.



Coolant channels running through the entire weld head body ensure an excellent heat dissipation that enable the ORBIWELD weld heads to work continuously even at high welding currents and intensive loads.

The closed design of the ORBIWELD series and the gas management system of the head ensure a permanent infiltration of the weld seam during welding with inert gas, guaranteeing seams that are very low in welding colors.

FEATURES:

- Quick change system for clamping inserts that engages and releases smoothly without any tools
- High durability due to completely water-cooled weld head housing
- Durable clamping connections in combination with clamping inserts available for all tube dimensions guarantee that the parts to be welded are clamped securely without misalignment

- 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
- High-quality, rugged housing and handle parts
- Highly flexible hose package (Length: 7.5 m/ 24.6 ft) with strain relief to the power supply
- Cost-effective clamping inserts
- Comprehensive and customer-specific range of accessories



APPLICATION RANGE	ORBIWELD 115	ORBIWELD 170
Code	826 000 001	828 000 001
Tube OD, min. - max.	20 - 115 mm 3/4" - 4.5"	50 - 170 mm 2" - 6"
Electrode Ø	1.6/2.4 mm 0.063"/0.094"	1.6/2.4 mm 0.063"/0.094"
Weight	15.1 kg 33.3 lbs	20.7 kg 45.6 lbs
Hose package length	7.5 m 24.6 ft	7.5 m 24.6 ft
SCOPE OF DELIVERY		
Including:	<ul style="list-style-type: none"> • 1 Enclosed orbital weld head OW 115 or OW 170 • 1 Durable storage and shipping case (Code 821 030 001) • 1 Tool set • 1 Operating instructions and spare parts list 	
Suitable accessories (available option):	<ul style="list-style-type: none"> • Clamping inserts, small and wide • Plastic case for clamping inserts • Cavity inserts for moldings • Inserts for elbow welding • T-piece clamping shells • Electrode adapters • Table mounts • ESG tungsten grinders • ORBmax residual oxygen meter • ORBIPURGE forming set • Hose package extensions • Pressure regulator • Inspection set • WS2 tungsten electrodes 	



ORBIWELD 115



ORBIWELD 170

ORBIWELD 115	DIMENSION		ELECTRODE INTERVAL			
			CLAMPING INSERT TYPE "S" [2 PAIRS]		CLAMPING INSERT TYPE "W" [2 PAIRS]	
	[MM]	[INCH]	[MM]	[INCH]	[MM]	[INCH]
Dimension "A1"	30.00	1.181	32.00	1.260	52.00	2.047
Dimension "A2"	30.00	1.181	32.00	1.260	52.00	2.047
Dimension "B"	60.00	2.362	64.00	2.520	105.00	4.134
Dimension "C"	260.00	10.236				
Dimension "D"	115.00	4.528				
Dimension "E"	102.00	4.016				
Dimension "F"	275.00	10.827				
Dimension "G"	498.00	19.606				
Dimension "H"	215.00	8.465				
Dimension "I"	50.00	1.969				
Dimension "J"	67.00	2.638				
Dimension "K"	88.00	3.465				
Dimension "L"	250.00	9.843				

ORBIWELD 170	DIMENSION		ELECTRODE INTERVAL			
			CLAMPING INSERT TYPE "S" [2 PAIRS]		CLAMPING INSERT TYPE "W" [2 PAIRS]	
	[MM]	[INCH]	[MM]	[INCH]	[MM]	[INCH]
Dimension "A1"	30.00	1.181	32.00	1.260	50.00	1.969
Dimension "A2"	41.00	1.614	43.00	1.693	61.00	2.402
Dimension "B"	70.00	2.756	72.00	2.835	110.00	4.331
Dimension "C"	345.00	13.583				
Dimension "D"	160.00	6.299				
Dimension "E"	140.00	5.512				
Dimension "F"	365.00	14.370				
Dimension "G"	585.00	23.031				
Dimension "H"	285.00	11.220				
Dimension "I"	50.00	1.969				
Dimension "J"	67.00	2.638				
Dimension "K"	88.00	3.465				
Dimension "L"	332.00	13.071				

