ORBIWELD X 1.5/3.0

Smarter, closed orbital weld head

Closed orbital welding head

The new generation of intelligent orbital weld heads—the OWX welding heads mark a significant advance in orbital welding technology. As the successor to the well-known OWS series, the OWX heads offer a variety of innovative features that make orbital welding more efficient and user-friendly.

heads offer a variety of innovative features that make orbital welding more efficient and user-friendly. They impress with their ease of use, reliable performance, and maintenance-friendly design. The welding heads are compatible with Orbitalum Mobile Welder, Smart Welder, and Power Welder power sources as well as OWS clamping shells.



The OWX weld head sets new standards for orbital welding comfort.

As the successor to the OWS series, the OWX welding heads offer a variety of innovative enhancements. The sleek and futuristic design, combined with state-of-the-art smart features, makes the OWX heads a must-have in modern pipeline construction.

Easy operation
The OWX welding head is equipped with an ergonomic handle and an optimized clamping mechanism. The flip cover with viewing window and integrated LED lighting inside the welding head facilitate visual alignment and position control of the pipes. The welding head has a mechanical mounting interface to enable easy integration into fixture construction. In addition, the welding head is easy and intuitive to operate thanks to a control unit integrated into the aluminum handle shell.

Modern smart features
The OWX control unit is equipped with a display that has smart functions. Among other things, welding programs marked as favorites can be selected directly from the head. The progress of the welding process is visualized during the process. In addition, a gyro sensor is installed in the welding head, which precisely determines the position of the welding head and enables automatic positioning of the electrode to the programmed starting position. A temperature sensor also monitors the welding head temperature throughout the entire welding process.

Service and maintenance friendly
The OWX welding head has been designed for quick and easy maintenance. Thanks to its service-friendly design, gearbox maintenance can be carried out in just 15 minutes - without long waiting times for external repairs or shipping. With minimal use of tools, the gearbox components are easily accessible for maintenance, reducing downtime and maximizing operational reliability.

Compatible with Orbitalum products
For maximum flexibility, OWX welding heads are compatible with Smart Welder and Mobil Welder series power sources, as well as OWS clamping shells and electrode adapters. The OWX welding head is available in two versions: with a 1/4" thread or a 1/2" thread.

OPTIONAL: Table mount for greater security

The OWX table mount provides stable and secure attachment of the weld head at the workstation. It can be used flexibly for temporary storage or permanent mounting. The mount allows the welding head to be positioned both parallel and perpendicular to the mounting surface.

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Technical highlights and accessory range (available as options):



Control unit with display integrated into the aluminum tray.



Sturdy aluminum table mount for attaching to the edge or surface of a table.



Universal central mechanical fastening interface for fall protection.

SCOPE OF APPLICATION	ORBIWELD X 1.5	ORBIWELD X 3.0
Code	836 000 001	837 000 001
Pipe OD, min. - max.	3,00 - 39,00 mm 0.125" - 1.50"	6,00 - 77,00 mm 0.250" - 3.000"
Electrode diameter	1,6/2,4 mm 0.063"/0.094"	1,6/2,4 mm 0.063"/0.094"
Machine weight including hose package	7,50 kg 16.535 lbs	8,50 kg 18.739 lbs
hose package length	7,5 m 24.6 ft	7,5 m 24.6 ft
SCOPE OF DELIVERY		
Including:	• 1 ORBIWELD X 1.5/3.0 orbital weld head • 1 OWX 1.5/3.0 transport case (code 836 030 010/837 030 010) • 1 OWX tool set (code 836 030 001) • Operating instructions and spare parts list (PDF) • General safety instructions	
Matching accessories (available as an option):	• Clamping inserts • Chamber inserts for molded parts • Inserts for arc welding • T-piece clamping inserts • Electrode adapters • Table mounts • ESG electrode grinding devices • ORBmax residual oxygen analyzer • ORBIPURGE forming set • Hose package extensions • Double pressure reducer • WS2 tungsten electrodes • Table mount	

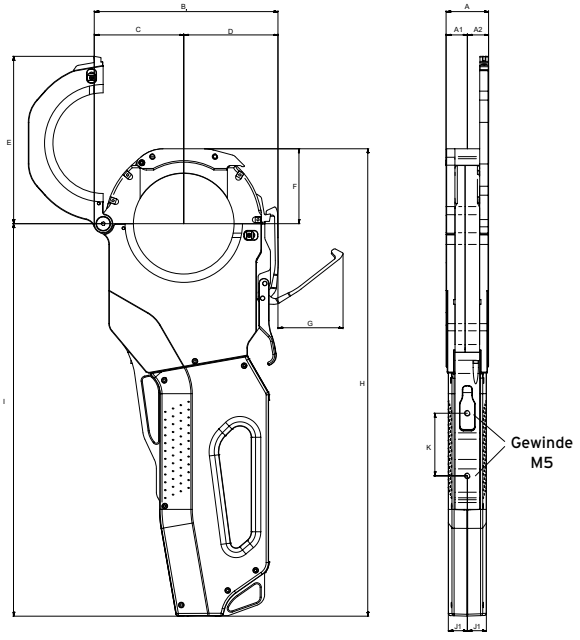


ORBIWELD X 1.5



ORBIWELD X 3.0

DIMENSIONS				
	OWX 1.5		OWX 3.0	
	[MM]	[INCH]	[MM]	[INCH]
A	34,00	1.339	38,00	1.496
A1	17,00	0.669	19,00	0.748
A2	17,00	0.669	19,00	0.748
B	123,11	4.847	164,27	6.467
C	58,00	2.283	80,03	3.151
D	65,11	2.563	84,24	3.317
E	108,68	4.279	149,64	5.891
F	47,50	1.870	67,00	2.638
G	47,01	1.851	58,20	2.291
H	355,51	13.996	417,99	16.456
I	308,01	12.126	351,00	13.819
J1	19,00	0.748	17,00	0.669
J2	19,00	0.748	17,00	0.669
K	56,00	2.205	56,00	2.205



The technical data is non-binding. It does not constitute a guarantee of properties. Subject to change without notice.

Closed orbital weld head OWX



ORBIWELD X 1.5

ORBIWELD X 1.5

For properties, scope of application, technical data, and scope of delivery, see page 2.
Clamping inserts are not included in the scope of delivery.

ARTICLE	CODE	MACHINE WEIGHT KG*	SHIPPING WEIGHT KG
ORBIWELD X 1.5	836 000 001	7,50	16,535

* Machine weight including hose package



ORBIWELD X 3.0

ORBIWELD X 3.0

For properties, scope of application, technical data, and scope of delivery, see page 2.

Clamping inserts are not included in the scope of delivery.

ARTICLE	CODE	MACHINE WEIGHT KG*	SHIPPING WEIGHT KG
ORBIWELD X 3.0	837 000 001	8,00	17,637

* Machine weight including hose package



table mount OWX, V2

OWX table mount, V2

The aluminum (anodized) table mount with its quick-release clamp allows convenient and secure storage and fixing of welding heads from the ORBIWELD X series weld heads.
It can be clamped to the edges of worktops, screwed onto worktops, or integrated into alternative mounting systems.
In addition, the base can be rotated 90° on the mounting bracket, providing additional flexibility.

TECHNICAL SPECIFICATIONS	TABLE MOUNTS
Dimensions (LxWxH*)	330,0 x 137,0 x 120 mm 12.992 x 5.394 x 4.724 in
Clamping width (lower edge of table to maximum extension of screw clamp)	Max. 132,00 mm / 5.197 in
Weight	1,17 Kg

ARTICLE	CODE	KG
OWX table mount, V2	836 030 201	1,17

Matching accessories (available separately):

- Clamping inserts
- Inserts for arc welding
- T-piece clamping inserts
- Electrode adapters
- Hose package extensions

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