

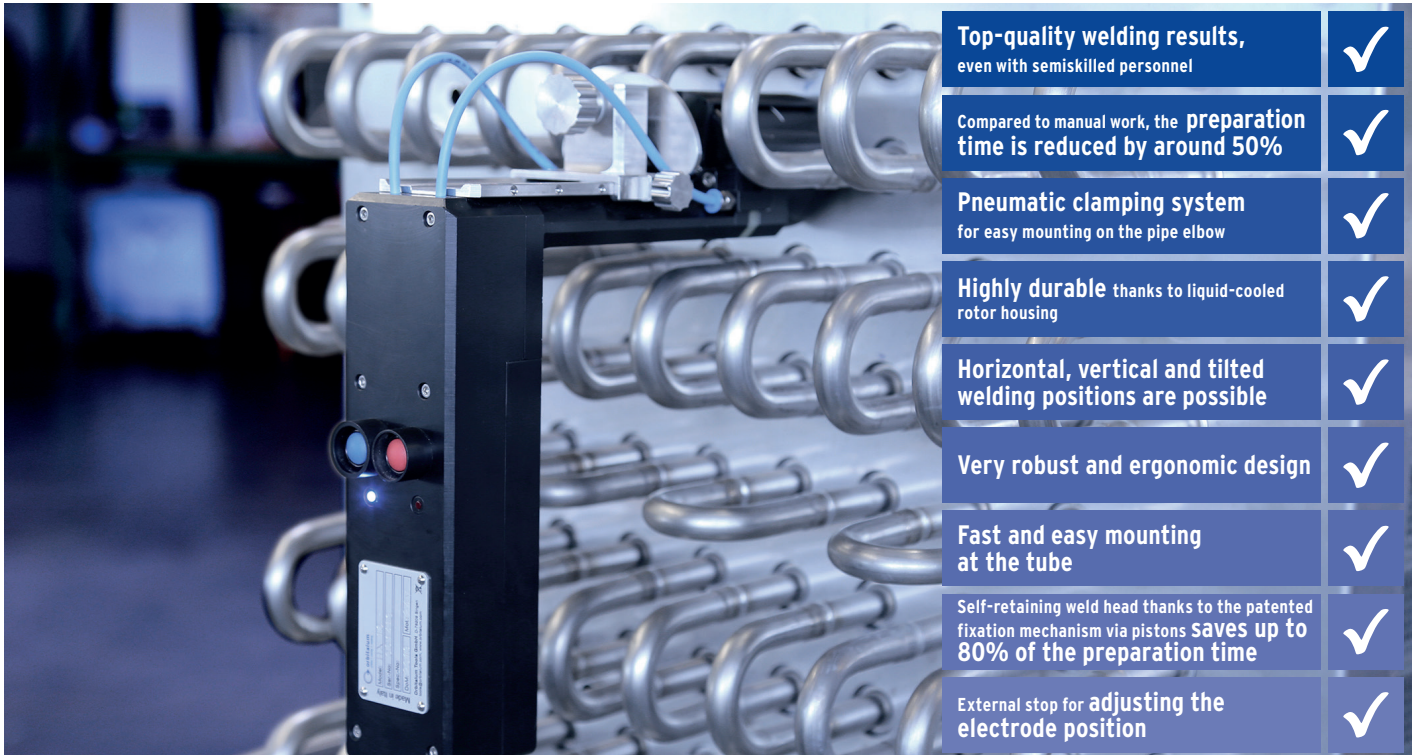
# HX 16P

## Enclosed orbital weld head

The orbital weld heads HX for compact cooling systems are setting new standards!

"HX" stands for "heat exchanger" and for the welding of pre-mounted elbows in tight pipe bundles of heat exchangers into a pipe coil.

There is no other solution as effective as this one in the world!



**Due to their compact size, all fully closed or open orbital weld heads commonly available on the market are not suitable for being positioned between the individual pipes of finned heat exchangers.**

The HX series scores points in the areas of economy and efficiency when compared to conventional weld heads: The pipe ends of a heat exchanger can be fully fitted with elbows before joining and then welded in any order. For conventional orbital weld heads, the principle of fit elbow, weld, fit elbow, weld etc. applies, always starting from the center of the pipe sheet and working outward. If quality testing reveals a faulty weld later on, all elbows must be disconnected and new ones must be welded on in the worst case scenario (fault in the middle of the bundle) due to the accessibility factor. With the HX head, only the affected elbow would have to be replaced.

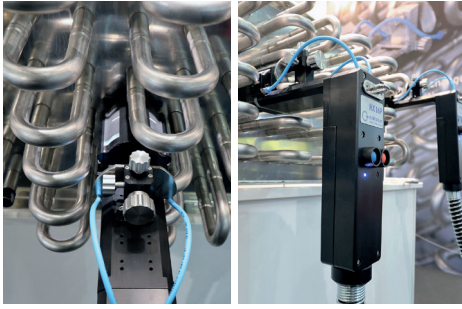
This design-based advantage also makes the Orbitalum system the ideal tool for unbeatably cost-effective repairs.

In contrast to open weld heads with a cumbersome hose assembly, all connections for power, gas and cooling liquid are permanently integrated in the HX.

All orbital welding power sources from Orbitalum automatically detect the head and its properties so that the operator only has to call up his or her specified jointing program and start the joining process before beginning to weld.

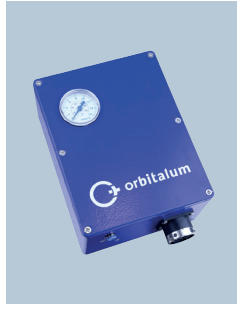
Traditionally, complex heat exchangers for cooling systems were made of copper and soldered with the pipe elbows. The high price of copper prompted manufacturers to switch over to stainless steel for production. Stainless

steel can only be joined economically, reliably and in high quality with tungsten inert gas (TIG) welding in conjunction with mechanized orbital welding.



Extremely narrow design - ideal for the welding of pre-mounted elbows in tight pipe bundles

All connections for electricity, gas and cooling water are firmly integrated



Pneumatic box included in the scope of delivery



Available option: Diameter-specific clamping inserts and earth cable



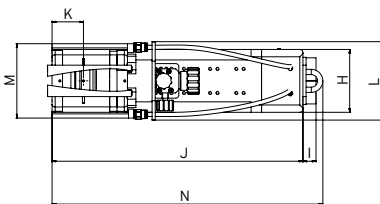
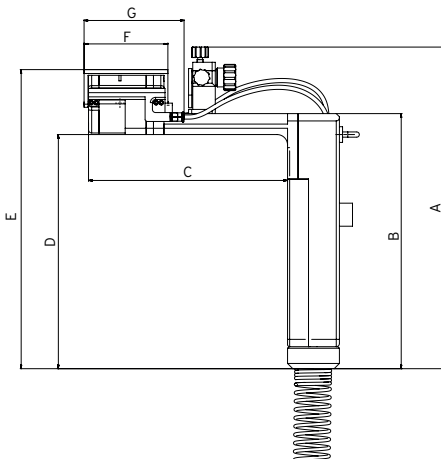
Available option: Adjustable bar pressure regulator for Argon



The perfect complement: Orbital welding power supplies ORBIMAT



HX 16P



APPLICATION RANGE		HX 16P	
Code		848 000 010	
Tube OD, min. - max.*	[mm]	15.0 - 16.8	
	[inch]	0.591 - 0.661	
TECHNICAL DATA		HX 16P	
Electrode Ø	[mm]	1.6	
	[inch]	0.063	
Machine weight including hose package	[kg]	5.9	
	[lbs]	13.0	
Hose package length	[m]	7.5	
	[ft]	24.6	
TECHNICAL DATA		PNEUMATIC BOX	
Input		Argon	
Recommended input pressure	[bar]	8	
	[PSI]	116	
DIMENSIONS		HX 16P	
		[mm]	[inch]
Dimension "A"		307.00	12.087
Dimension "B"		243.50	9.587
Dimension "C"		190.00	7.480
Dimension "D"		223.50	8.799
Dimension "E"		285.50	11.240
Dimension "F"		80.00	3.150
Dimension "G"		95.45	3.758
Dimension "H"		60.00	2.362
Dimension "I"		12.50	0.492
Dimension "J"		239.50	9.429
Dimension "K" (Electrode)		30.00	1.181
Dimension "L"		74.85	2.947
Dimension "M"		71.00	2.795
Dimension "N"		258.50	10.177
SCOPE OF DELIVERY		HX 16P	
Enclosed orbital weld head of the HX series	Pc.	1	
Durable storage and shipping case	Pc.	1	
Pneumatic box	Pc.	1	
Supply hose (2 m/6.56 ft) for pneumatic box	Pc.	1	
Pivoting arm	Pair	1	
Elbow stop	Pc.	1	
Sheet stop alignment kit	Pc.	1	
Tool set	Set	1	
Power connector adapter	Pc.	1	
Operating instructions and spare parts list	Set	1	
SUITABLE ACCESSORIES			
Available option:		<ul style="list-style-type: none"> <li>• Clamping inserts</li> <li>• Bar pressure regulator Argon</li> <li>• Earth cable</li> <li>• WS2 tungsten electrodes</li> <li>• ESG tungsten grinders</li> </ul>	

\* Other dimensions on request

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