ORBITAL WELDING Microfit closed weld head X-500

0.118 - 1/2" o/d / 3 - 12.7 mm o/d







MICROFIT CLOSED WELD HEAD X-500 AXXAIR





0.118 - 1/2" o/d / 3 - 12.7 mm o/d

- Function: Orbital TIG welding
- Materials: Any kind of stainless steel and exotic alloys
- Controlled by the SAXX power supplies*

The extremely thin design of the X-500, the thinnest of all AXXAIR closed heads, is ideal for welding micro-fittings and tubes in tight spaces, such as in the semiconductor, aerospace, or pharmaceuticals industries, while ensuring precision and reliability in every weld.

The X-500 covers the size range of 3 - 12.7 mm (0.118"- 0.500") OD using diameter specific clamping cassettes. Air-cooled and water-cooled versions are available.

MAIN FEATURES

- High level of performance : up to 20 welds per hour for the air-cooled machine and 30 welds for the . water-cooled machine
- Greaseless operation: compatible with clean room standards
- Optimized gas diffusion: welds with very limited coloration
- Easy maintenance and cleaning of the rotor : with an integrated tool in the machine body
- Compact and light: 5.6kg (12.3 lbs) with 8 meters cable (26 ft)





X-500 with cassette





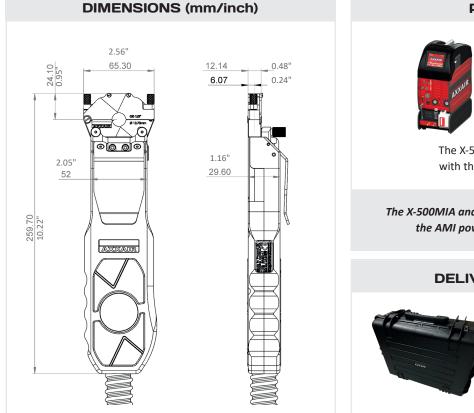


- Compatible with an adaptator SAFS-ADAMI4: AMI 307 The machines are not compatible with AMI 227, 327, 415

clamping cassettes, please contact us.

TECHNICAL FEATURES

PART NUMBER	X-500A	X-500E	X-500MIA	X-500MIE
DESCRIPTION	Microfit closed weld head with 8m (26ft) cable Air cooled	Microfit closed weld head with 8m (26ft) cable Water cooled	Microfit closed weld head with 8m (26ft) cable Air cooled Compatible with AMI power supply *	Microfit closed weld head with 8m (26ft) cable Water cooled Compatible with AMI power supply*
TUBE DIAMETER (O/D)	3 - 12.7 mm	3 - 12.7 mm	3 - 12.7 mm	3 - 12.7 mm
TOBE DIAMETER (0/D)	0.118" - 1/2"	0.118" - 1/2"	0.118" - 1/2"	0.118" - 1/2"
	1.0 mm	1.0 mm	1.0 mm	1.0 mm
ELECTRODE DIAMETER	0.039"	0.039"	0.039"	0.039"
WEIGHT WITH CABLE	5.6 kg (12.3 lbs)	5.6 kg (12.3 lbs)	5.6 kg (12.3 lbs)	5.6 kg (12.3 lbs)
MAXIMUM NUMBER OF WELDS PER HOUR on a 12.7 mm diameter, 1.24 mm thick stainless steel tube	20	30	20	30
MAX WELDING CURRENT	80 A	80 A	80 A	80 A
OPERATING TEMPERATURE	+0°C/+40°C (32°F/104°F)	+0°C/+40°C (32°F/104°F)	+0°C/+40°C (32°F/104°F)	+0°C/+40°C (32°F/104°F)



POWER SUPPLY



The X-500A and X-500E are compatible with the SAXX range of power supplies

The X-500MIA and X-500MIE machines are compatible with the AMI power supplies with auto-calibration *

DELIVERY AND STORAGE



Delivered in a shockproof case with a hook lead

Cassettes are not included and must be ordered separately according to your tube diameter (see accessories).

CONSUMABLES

Electrodes

PART NUMBER	DESCRIPTION	OUTSIDE DIAMETER OF THE TUBE TO BE WELDED (MIN - MAX)		
SCE10-09.0	Tungsten electrode diameter 1.0 mm, length 9 mm (per 10)	11.8 - 12.7 mm	0.465 - 0.5"	
SCE10-10.0	Tungsten electrode diameter 1.0 mm, length 10.0 mm (per 10)	9.8 - 12.2 mm	0.386 - 0.480"	
SCE10-11.0	Tungsten electrode diameter 1.0 mm, length 11.0 mm (per 10)	7.8 - 10.2 mm	0.307 - 0.402"	
SCE10-12.0	Tungsten electrode diameter 1.0 mm, length 12.0 mm (per 10)	5.8 - 8.2 mm	0.228 - 0.323"	
SCE10-13.0	Tungsten electrode diameter 1.0 mm, length 13.0 mm (per 10)	3.8 - 6.2 mm	0.150 - 0.244"	
SCE10-14.0	Tungsten electrode diameter 1.0 mm, length 14.0 mm (per 10)	2.0 - 4.2 mm	0.079 - 0.165"	



ACCESSORIES

Clamping cassettes

Stainless steel clamping cassettes. One cassette is required for each tube diameter. Can be used to weld tube-to-tube, tube-to-fitting, fitting-to-fitting.

PART NUMBER	DESCRIPTION	Outside diameter of the tub to be welded (inch / mm)	
X-500-CA03.00	Cassette for OD = 3.00 mm (0.118")	0.118"	3.00 mm
X-500-CA03.18	Cassette for OD = 1/8 inch (3.175 mm)	1/8"	3.18 mm
X-500-CA04.76	cassette for OD = 3/16 inch (4.763 mm)	3/16"	4.76 mm
X-500-CA06.00	cassette for OD = 6.00 mm (0.236")	0.236"	6.00 mm
X-500-CA06.35	cassette for OD = $1/4$ inch (6,35 mm)	1/4"	6.35 mm
X-500-CA08.00	cassette for OD = 8.00 mm (0.315")	0.315″	8.00 mm
X-500-CA09.53	cassette for OD = 3/8 inch (9.525 mm)	3/8"	9.53 mm
X-500-CA10.00	Cassette for OD = 10.00 mm (0.394")	0.394"	10.00 mm
X-500-CA12.00	Cassette for OD = 12.00 mm (0.472")	0.472″	12.00 mm
X-500-CA12.70	Cassette for OD = $1/2$ inch (12.70 mm)	1/2"	12.70 mm



These cassettes can be used to weld fittings or tubes with a 6.35 mm straight length

Table mount

The machine is designed with a hook that allow to hang the machine on this table mount, as well as different supports up to 5 mm thickness.

PART NUMBER	DESCRIPTION	7.1.
SATFX-PSUP	Table mount for the X-500 weld head	T

Lead extension

The X-500 machine is delivered with a 8 m (26 ft) lead. To increase the operating distance between the welding head and the SAXX power source, we offer cable extensions. We strongly advise to limit their use to one extension per head.

For X-500A - air cooling

PART NUMBER	TNUMBER DESCRIPTION		EIGHT	PACKAGING DIMENSIONS	
SAFS-05MAX	5 m /16.4 ft extension cable Air cooling - without wire	15.4 lbs	7 kg	16"x23"x10"	40x59x25 cm
SAFS-10MAX	10 m /32.8 ft extension cable Air cooling - without wire	28.7 lbs	13 kg	16"x23"x10"	40x59x25 cm

For X-500E - water cooling

PART NUMBER	R DESCRIPTION NET WEIGHT		PACKAGING DIMENSIONS		
SAFS-05MX	5 m /16.4 ft extension cable Water cooling - without wire	18 lbs	8.2 kg	16"x23"x10"	40x59x25 cm
SAFS-10MX	10 m /32.8 ft extension cable Water cooling - without wire	35 lbs	15.9 kg	16"x23"x10"	40x59x25 cm



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