Cutting, facing & orbital welding < 3 mm wall thickness

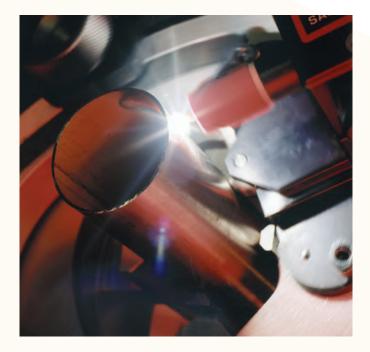
V2 - 10/2017



Orbital welding involves rotating a Tungsten electrode around a tube to weld it to other tubes or accessories.

Our programme incorporates a unique and atypical orbital welding machine for so-called "prefab" because it cannot be brought to the tube, it is the tube that is brought to the machine.

It is an axial loading machine which involves being able to pull out the tube as well as the welded accessory.



These machines that use standard cutting and bevelling frames have the advantage of being very robust and easy to use.

In fact, the SX range is mainly intended for workshop or building site prefabrication use. These machines are also used to carry out repeatable production welding on suitable elements.

Our machines can all be equipped with either an air-cooled torch or a water-cooled torch, with or without filler metal.

FLEXIBILITY, PRODUCTIVITY

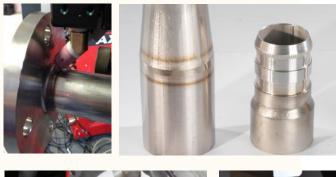
Welding with a water or air cooled torch with or without filler metal. It allows production of medium to large series of welding sub-assemblies. The diameter range of each machine is very wide and does not require specific jaws.

QUALITY AND REPEATABILITY

TIG welding without tube distortion (multi-contact concentric clamping) ideal for thin walled stainless steel tubes. Mechanical tracking and axial adjustment optimize the quality of your welds.

EASY TO USE

Robust and intuitive, it is adapted to any operator profile.





Please do not hesitate to contact us for all enquiries relating to orbital welding technology.

We will be glad to share our know-how with you and to devise a solution that best meets your needs!



V2 - 10/2017

INNOVATIVE ORBITAL SOLUTIONS

NEW PRODUCTS In the SXx22 orbital welding range

We have decided to strengthen this part of our range of orbital welding machines.





The **stability** of the assembly has been greatly improved by the **redesign of the support plate.**



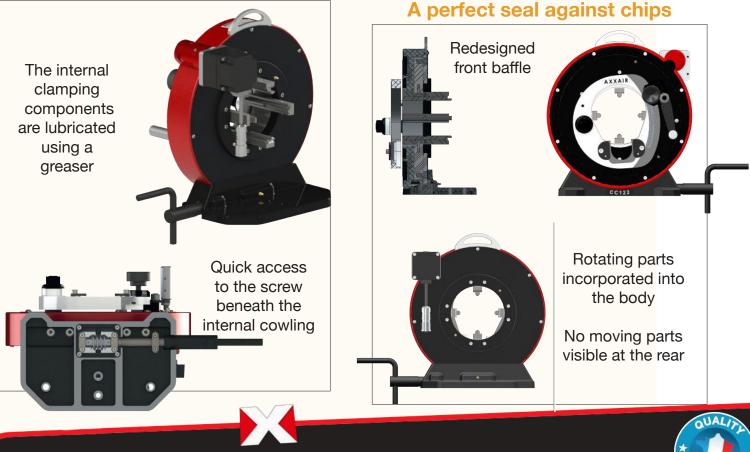
Easy handling Introduction of a lifting eye for use in a workshop or on site.

Easy maintenance and inspection



Robustness



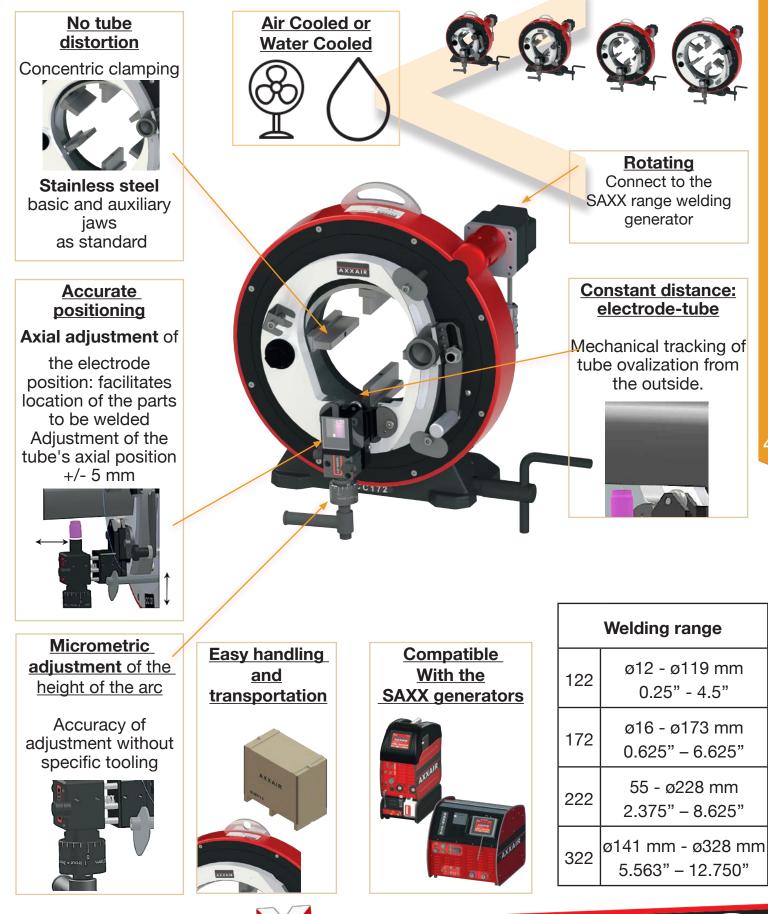


Cutting, facing & orbital welding <3 mm wall thickness

V2.1 - 01/2018

SX122 - 172 - 222 - 322







V2.1 - 01/2018

SX122 - 172 - 222 - 322

Technical characteristics:

Machines for TIG orbital prefab welding.

Choice of: AIR cooling or WATER cooling

For optimum use, the ambient temperature must be between 0 °C and + 40 °C.

Compatible with AXXAIR type SAXX welding generators, we have an automatic parameter calculation mode.

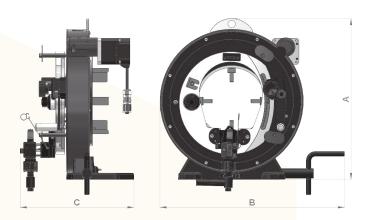
The generator will offer you parameters adapted to the characteristics of the tubes / accessories to be welded.

The machine can be supplemented by a wire feed system. For details, please refer to accessories.

For welding with an AVC / OSC system please refer to the "thick" catalogue



SX-xx2-E (WATER)	200 A.	
SX-xx2-A (AIR)	100 A	



	Product		g machine for ameters (in mm):	Net	Customs	Dimensions (AxBxC in	
	Code	With basic jaws	With extra jaws (included)	weight	code	(AXBXC III mm)	
NEW	SX122-A	Ø29 - Ø1 <mark>19</mark>	Ø <mark>12</mark> - Ø99	45 kg		446 x 541 x 350	
Cooling	SX172-A	Ø74 - Ø <mark>173</mark>	Ø <mark>16</mark> - Ø116	52 kg	85153	493 x 566 x 350	
AIR	SX222-A Ø128	Ø128 - Ø <mark>228</mark>	Ø <mark>55</mark> - Ø155	60 kg	10000	548 x 594 x 350	
	SX322-A	Ø230 - Ø <mark>328</mark>	Ø141 - Ø239	73 kg		649 x 644 x 350	
	SX122-E	Ø29 - Ø1 <mark>19</mark>	Ø <mark>12</mark> - Ø99	45 kg		446 x 541 x 350	
Cooling	SX172-E	Ø74 - Ø <mark>173</mark>	Ø <mark>16</mark> - Ø116	52 kg	85153	493 x 566 x 350	
WATER	SX222-E	Ø128 - Ø <mark>228</mark>	Ø <mark>55</mark> - Ø155	60 kg	10000	548 x 594 x 350	
	SX322-E	Ø230 - Ø <mark>328</mark>	Ø <mark>141</mark> - Ø239	73 kg		649 x 644 x 350	



Cutting, facing & orbital welding <> 3 mm wall thickness

V2.1 - 01/2018

Orbital welding (Prefab) - Accessories



Our support legs and stands have been designed to further facilitate welding by ensuring that the machine is stable in varied conditions: in the workshop or on site.

Join experience

The great advantages of these products are:

- lightness
- flexible handling
- ease of use

	Product Code	Descript	ion N	et weight	Customs code	Dimensions (in cm)
	CCPS21	Support	legs	10 kg	84669 37000	103 x 32 x 11
	Support legs f - quick assem - height adjust	bly and disr	nantling	<u>hine:</u>		
✓SX122-A ✓SX172-A	√SX222-A	√SX322-A	√SX122-E	√SX172-Е	√SX222	-Е √ SX322-Е

	Product Code	Descriptio	n N	et weight	Customs code	Dimensions (in cm)
	CCSER1	Stand		10 kg	84669 37000	60 x 26 x 10
	Simple stand f - quick assem - height adjust	bly and disma		<u>th height ad</u> j	justment:	
✓SX122-A ✓SX172-A	√SX222-A	🗸 SX322-A 🗸	SX122-E	√SX172-Е	√ SX222-I	E 🗸 SX322-E

	Product Code	Descrip	tion	Net weight	Customs code	Dimensions (in cm)				
	CCSER2	Stand (with o steel bear		11 kg	84669 37000	60 x 26 x 10				
Stand with chrome steel bearings for supporting tubes with height adjustment:										
	 quick assembly and dismantling height adjustment 									
✓SX122-A ✓SX172-A	√ SX222-A	√SX322-A	√SX122-E	√SX172-Е	√SX222-	E √SX322-E				

Cutting, facing & orbital welding

V2.1 - 01/2018

AXXAIR INNOVATIVE ORBITAL SOLUTIONS

Orbital welding (Prefab) - Accessories

Our support benches help you to position and feed your tubes without the aid of stands. The height-adjustable table helps you easily and precisely set the height of your machine, for welding tubes placed on the support bench.

The additional tube support bench allows you to position your longest tubes in a stable manner on all benches. We also recommend that you support the cut section in front of your machine using one or more additional benches, depending on the length of the tube.

NEW		Product Coc	le Descrip	otion N	et weight	Customs code	Dimensions (in cm)		
		CCBSB-X1	-X1 Adjustable tube support bench		57 kg	84669 37000	184 x 95 x 51		
		- stainless ste	adjustable support bench, 1.5m: ess steel rollers - maximum load 350 kg adjustment handle - min tube ø: 5 mm - max tube ø: 321 mm						
√SX122-A	√ SX172-A	√SX222-A	√SX322-A	√SX122-E	√SX172-E	√SX222-E	√SX322-Е		

NEW A	Product Code	Description		let weight	Customs code	Dimensions (in cm)	
	CCBSB-X2	Additional sup- port bench		38 kg	84669 37000	150 x 95 x 51	
	Additional tube - stainless steel - 1.5 m long - maximum load	rollers		tube ø: 5 m (tube ø: 321			
✓SX122-A ✓SX172-A	√SX222-A	/SX322-A 🗸 S	К122-Е	✓SX172-Е	√ SX222-	•Е √ SX322-Е	

NEW SIE	Product Code	Descriptio	on Ne	et weight	Customs code	Dimensions (in mm)				
and the second second	CCBSB-B005	Connecting	bar	3 kg	84669 37000	100 x 80 x 402				
	Connecting ba	r for CCBSB-X	1 and CCB	<u>SB-X2:</u>						
	- Allows the he the machine	ight-adjustable	table to be	e connected	to a bench	placed in front of				
✓SX122-A ✓SX172-A	√ SX222-A	√SX322-A 🗸	SX122-E	√SX172-Е	√ SX222	-Е √ SX322-Е				
· · · · ·										

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Orbital welding (Prefab) - Accessories

Join experience

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

						INNOV	ATTVE ORBITAL SOLUTION			
		Product Code	e Descrip	otion	Net weight	Customs code	Packaging (in cm)			
		SKIF-01	Gas protection KIT		2.9 kg	85159 00090	35 x 30 x 9.5			
		- consists of: 9 1 metal cable,	<u>Gas membrane protection KIT for tubes Ø 40 to 120 mm</u> - consists of: 9 sets of membranes with washers, 1 gas pipe 6 m, 1 metal cable, 1 gas valve ¼ turn, 1 carabiner <i>Inerting the tubes during welding allows more gas savings</i> <i>as we only inert the area to be welded.</i>							
√ SX122-A	√SX172-A	√ SX222-A	√SX322-A	√SX122-			2-E √SX322-E			
		Product Code	e Descrip	otion	Net weight	Customs	Packaging (in cm)			
	., **	SKIB-01	Gas prote KIT		2 kg	85159 00090	35 x 30 x 9.5			
3	Gas plug protection KIT for tubes Ø 6 to 41 mm - consists of: 10 sets of perforated plugs, 1 gas inlet union,1 hose Ø 4/6 length 5 metres Facilitates and accelerates inerting. Avoids the use of adhesive paper.									
√SX122-A	√SX172-A	√SX222-A	√SX322-A	√ SX122-	E 🗸 SX172-E	. √SX22	2-E 🗸 SX322-E			
<i>.</i>	l	Product Code	e Descrip	otion	Net weight	Customs	s Dimensions (in mm)			
4		SADFP-02	Wire g	uide	0.05 kg	85159 00090	51 x 90 x 65			
		Wire guide for	<u>SX</u>							
√SX122-A	√SX172-A	√SX222-A	√SX322-A	√SX122-	-E √ SX172-E	≡ √ SX22	22-E / SX322-E			
170		Product Code	e Descrip	otion	Net weight	Customs code	Dimensions (in cm)			
		SADF2X	Wire disp	benser	12 kg	85159 00090	59.7 x 38.4 x 24			
		to guide the	vith SAXX _I wire	power su			and teflon sheath			
√ SX122-A	√SX172-A	√ SX222-A	√SX322-A	√SX122-	-E 🗸 SX172-I	E √SX22	22-E √ SX322-E			
		\sim								

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Orbital welding (Prefab) - Accessories										
		Product Coc	de	Descrip	otion	Net	weight	Customs code		Plastic box (in cm)
		SKTDI-30)	Inclined torch		0	.3 kg	85159 00090	12	2 x 17.5 x 4
		30° inclined	torc	<u>ch kit</u>						
√SX122-A	√SX172-A	√SX222-A		SX322-A	√SX12	22-E	√ SX172	-E 🗸 SX222	2-E	√SX322-Е
		Product Coc	de	Descrip	otion	Net	t weight	Customs code		Plastic box (in cm)
THE A		SKTDI-45		Inclined	torch	C).3 kg	85159 00090	12	2 x 17.5 x 4
		45° inclined	torc	<u>ch kit</u>						
√SX122-A	√SX172-A	√SX222-A	1	SX322-A	√SX12	22-E	√ SX172	-E 🗸 SX222	2-E	√SX322-E

Join experience

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V2.1 - 01/2018

Cutting, facing & orbital welding <3 mm wall thickness

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Orbital welding (Prefab) - Consumables

Our electrodes are specifically sharpened at 20° with a flat.

This increases the life of the electrodes.



INNOVATIVE ORBITAL SOLUTIONS

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		Product Code	Descrip	Description			Custo		Plastic box (cm)	
AXXALR SCE16-50		SCE16-50	Electroo	Electrodes 0.02 kg			85159 00010		5.5 x 4.5 x 1	
SCE16- 1950	50	Electrode diam	eter 1.6 mm	<u>, leng</u> t	:h 50mi	<u>m</u>				
		- Box of 10 electrodes								
√SX122-A	√SX172-A	√SX222-A	A 🗸 SX322-A 🗸 SX122-E 🗸 SX172-E 🗸 SX222-E 🗸 S					√SX322-Е		
		Product Code	Descript	tion	Net weight				Plastic box (cm)	
AXXAIR SCE24-50		SCE24-50	Electroc	les	0.05 kg		8515 000 ⁻		5.5	x 4.5 x 1
1950		Electrode diam	eter 2.4 mm	, lengt	<u>h 50m</u> r	<u>n</u>				

		- Box of 10 el	- Box of 10 electrodes							
√SX122-A	√SX172-A	√SX222-A	√SX322-A	√SX122-Е	√SX172-Е	√SX222-Е	√SX322-E			

		Product Code	e Descrip	tion Ne weig		Custo cod		Plastic box (cm)	
		SKTD-xx	Replace torch	03	kg	8515 0009	- 12	x 17.5 x 4	
		Replacement kit for straight torch \emptyset 1.6 mm or \emptyset 2.4 - consists of: 5 nozzles, 2 plugs 9/20, 2 long electrode clamps, 10 electrodes (\emptyset 1.6 mm <u>or</u> \emptyset 2.4) and 2 mesh diffusers							
		Ø electrode		Kit Product Code					
		1.6 mm		SKTD-01					
		2.4 mm		SKTD-02					
√SX122-A	✓ SX172-A	√ SX222-A	√ SX322-A	√SX122-E	√ SX	К172-Е	√SX222-Е	√SX322-Е	

GLOBAL PROCESS

1 machine - 3 applications



For more than 20 years the AXX-AIR group has specialized in triple and exclusive orbital welding preparation solutions:

global process

A single machine frame (122, 172, 222 and 322) makes it possible to carry out three operations: **Cutting, bevelling and orbital welding.**

BUT CAUTION,

The SX-xx2 machine is dedicated to prefab welding. Its automatic rotation allows only orbital welding work.



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To use the machine frame for several operations (prefab welding, cutting and / or bevelling), a cutting or bevelling machine must be ordered with the welding KIT adapted to your needs.

You will find all the information in the relevant catalogues.

Cutting motor, bevelling motor or orbital welding torch interface