

AXXAIR

COMPLETE BROCHURE

THIN WALLED TUBES < 3mm WALL THICKNESSES

ORBITAL CUTTING AND FACING



ORBITAL WELDING





SPECIALIZED FABRICATION EQUIPMENT GROUP

Introduction to S.F.E. Group

S.F.E. Group was founded in 2019 after the merger of three world leading OEM's in the field of pipe fabrication tooling and machinery: B&B Pipe and Industrial Tools LLC (USA), Mathey Dearman Inc. (USA) and TAG Pipe Equipment Specialists (UK). Most recently the S.F.E Group has completed the acquisition of the Axxair Group (France).

S.F.E. Group offers a wide range of products and is continuously exploring new product design and development, as well as add-on acquisitions to enhance its portfolio and to fulfil increasing industries' demands.

With offices and warehousing on 4 continents, 120 employees and more than 250 partnerships and distributors worldwide, S.F.E. Group prides itself in consistently offering the highest standard of both product quality and service to all its customers.

S.F.E. Group looks forward to welcoming you into its global network as a partner, distributor or end user customer and remains at your disposal at any time.



UNITED STATES HEAD OFFICE - HOUSTON



INTERNATIONAL HEAD OFFICE - FRANCE

OUR BRANDS

 MATHEY DEARMAN Where There's Pipe, There's Mathey! PIPE FLAME CUTTING AND BEVELLING PIPE ALIGNMENT AND REFORMING CLAMPS PIPE RIGGING EQUIPMENT www.MATHEY.COM	 B&B Pipe & Industrial Tools The Pipe Fabricators Source PIPE JACK AND STANDS MEGA ROLLERS AND STANDS MATERIAL HANDLING EQUIPMENT www.BBPIPETOOLS.COM	 TAG PIPE EQUIPMENT SPECIALISTS World Leading Manufacturer of Pipe Beveling and Cutting Machines PIPE BEVELLING MACHINES PIPE COLD CUTTING MACHINES www.TAG-PIPE.COM	 AXXAIR Innovative Orbital Solutions ORBITAL CUTTING AND FRACING ORBITAL WELDING www.AXXAIR.COM	 PPM PIPE PURGE MASTERS Purging Solutions for the perfect pipe weld! PIPE PURGING SYSTEMS PURGE OXYGEN MONITOR PIPE STOPPERS www.PURGEMASTERS.COM	 FIT-UP PRO By Mathey Dearman The Pipe Fitters Companion FIT-UP AND ALIGNMENT TOOLS LAYOUT AND MARKING TOOLS www.MATHEY.COM
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SPECIALIZED FABRICATION EQUIPMENT
GROUP

Aidan Tagliaferro
- CEO and founder of AXXAIR -

AXXAIR

- designer, manufacturer and distributor -

AXXAIR supports its customers in more than 60 countries worldwide by offering global orbital cutting, squaring, bevelling and welding solutions.

We focus heavily on the needs of users and have adopted a service-oriented approach. We begin by determining the user's needs in terms of preparing items for welding and, of course, orbital welding itself.

We then provide the user's personnel with training on this equipment, in order to ensure that users are able to independently manage the applications they may need to use.

“

Understanding our customers and their needs, anticipating and meeting their expectations - these are AXXAIR's goals. We are able to respond to developments in our customers' ever-changing markets thanks to our various departments, R&D and Design Office.

AXXAIR offers **unique and original tube working solutions**. We believe that a lasting, high quality relationship with our customers is essential and have therefore developed local services to provide our customers with advice, by means of our subsidiaries and our distribution network.

AXXAIR is able to assist you at every stage of your project: creating samples, demonstrations, training, after-sales service, advice, etc.

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Services and a team :

- Join experience -

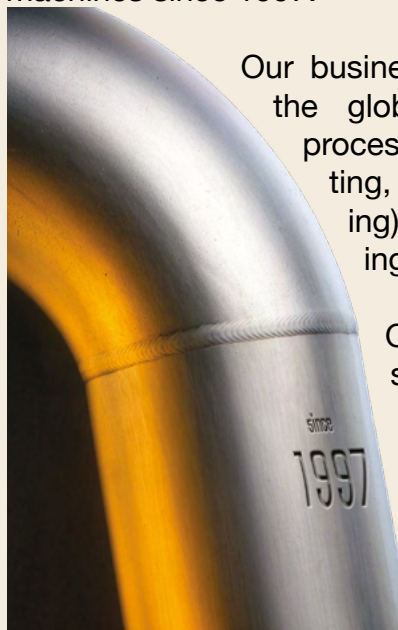
AXXAIR is your first point of contact for all tube working issues, from preparation to welding. With an experienced, responsive and committed team, AXXAIR will always suggest the most suitable solution.

“**Join experience**” sums up our philosophy, which is based on a community that always goes the extra mile.



Global Process

AXXAIR has been designing, manufacturing and distributing its orbital tube working machines since 1997.



Our business is based upon the global tube working process: preparation (cutting, bevelling or squaring) and orbital welding.

Our overall product strategy allows us to offer innovative solutions and adopt a global approach to your tube and pipe-work projects.

A Worldwide presence

AXXAIR is established in areas where customer demand is high, in order to be able to provide a local, high-quality service, with ever faster turnaround times.

Our products are distributed in more than 60 countries by our network of subsidiaries (in Korea, the USA and Germany) and our “distributor” partners, all of whom have been trained on our premises. With a commercial strategy based on **innovation, quality and performance**, the AXXAIR Group, a family-owned company, has become a successful group, whose business is continually expanding both in France and on export markets.



Production

AXXAIR SAS is committed to maintaining industrial employment in France. To this end, 98% of manufacturing is carried out in the Rhone-Alpes region of France.

We sub-contract 100% of our production to partners, including machine shops, sheet metalworking sub-contractors, electronics specialists, etc.

We design all our machines in our in-house design office, which has an expert team.



Sustainable development

AXXAIR is committed to the sustainable development of industrial activities. As a part of our sustainable approach, we have decided to stop producing printed catalogues.

In today's connected world, we believe that digital catalogues, with added features, are a practical and suitable alternative for everyone. We hope that you understand and will adopt this approach, for our good and the good of future generations.

This on-line catalogue can be printed, should you wish to do so, such that our vision is not imposed unilaterally. However, we would like to encourage you not to print it, or to only print out the information that is of greatest interest to you.





Transporting sensitive fluids

Many industries are using tubes to transport fluids. The more sensitive the more attention has to be paid to all connections that are most of the time welded: tube to tube or tube to T or tube to elbows for example. Most of those tubes are made of stainless steel in order to avoid corrosion and exchanges between the tube and the fluid.

Food-processing industry

Food and beverage manufacturing are using a lot of Stainless steel tubes. It is necessary of course to correctly seal the connections but also to be sure the internal surface of the tube is correctly welded (penetration).

The purpose is always to avoid any retention zones that could pollute the liquids you transport in the tube.

- Food processing
- Beverage processing: beer or wine manufacturing for example

Semi-conductor industry

The manufacturing of electronic components needs to have a very highly controlled atmosphere (clean rooms) as well as very high level quality tubes for the process.

Those tubes are transporting pure gases or pure water and to be welded with a very high quality.

An example is the manufacturing of memory.



Pharmaceutical industry

In this case the liquid that is transported is for producing medicine. In this case, even the inner surface of the tubes need to be electro polished to lower the possibility of interaction between liquid and tube surface.

As a consequence, the welds have to be with a very high quality of geometric aspects, in width, in surface finish. They are usually 100% X-rayed to guaranty the production will not be polluted.

Aeronautics industry

This industry is paying a lot of attention to weight and is therefore using a lot of aluminium components and almost all tubing is made with titanium tubes which is very light and resistant.

Welding titanium needs a very high gas protection inside and outside the tube.

Orbital closed head welding is the best solution for those applications.

- Aerospace
- Aircraft manufacturing



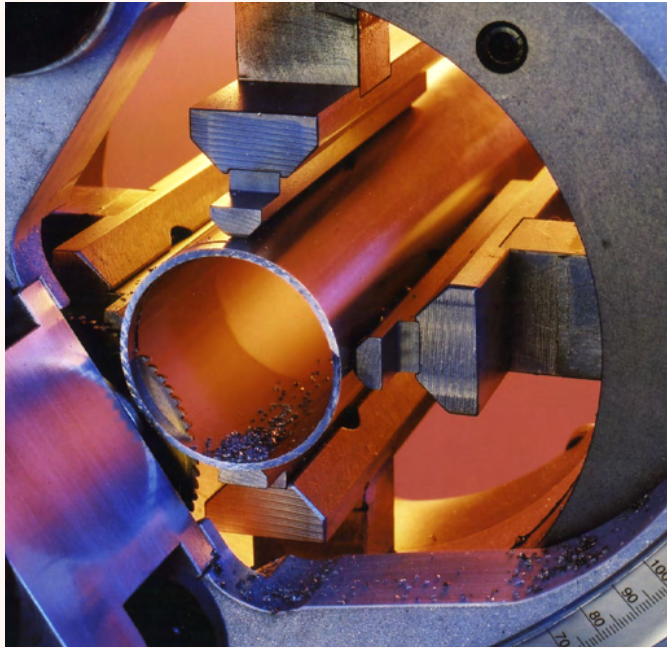
AXXAIR Orbital cutting

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

A proper tube preparation is essential to produce a proper weld.

AXXAIR's orbital cutting machines feature stainless steel concentric jaws to prevent the deformation of the tubes, especially the one with thin walls, during clamping.

The perfect position of the tube within the machine also guaranty the perpendicularity of the cut as the saw travels around the tube and the consistency that perpendicularity cut after cut.

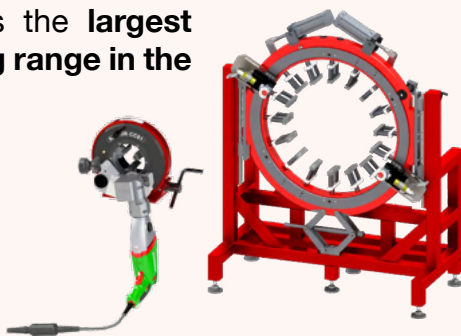


The precision of our cutting machine allow a perfect tube to tube alignment with the smallest gap possible, removing the need to facing the tube therefore saving a significant amount of time and money.

AXXAIR's orbital cutting machines are an indispensable tool for any automatic and orbital welding.

AXXAIR offers the **largest orbital cutting range in the world !**

11 different models to cut tubes from diameter 5 to 1100 mm !



FLEXIBILITY, PRODUCTIVITY

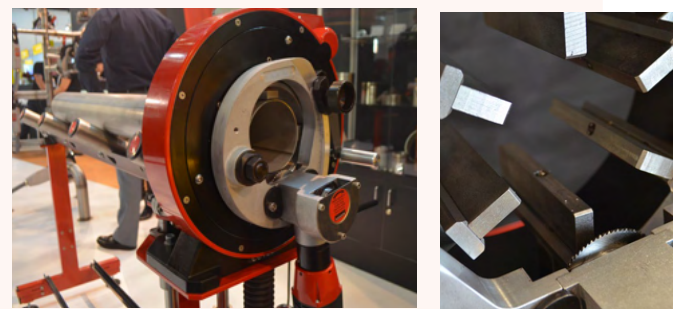
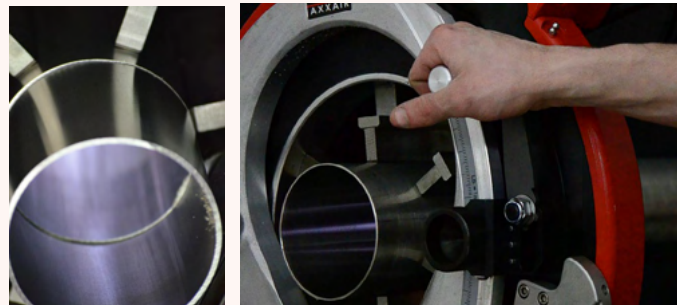
AXXAIR frames (except CC81, CC121ECO and 171ECO) are easily scalable for beveling and welding use.

QUALITY, GEOMETRIC PRECISION

Cutting with no tube distortion (multi-contacts concentric clamping) ideal for thin wall stainless steel tubes. Great perpendicularity (<0.25 mm) of the cut and superb surface finish (few burrs).

PORTABILITY

With the easy to remove sawing attachment, AXXAIR's cutting machines are easy to transport on site or move within a workshop.



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

We are glad to share our decades long experience in orbital cutting and helping you to select the solution that fits your needs.



The ECO Cutting range

81M - 121ECO - 171ECO



For more than 20 years AXXAIR has been developing scalable, flexible and reliable machines featuring our patented concentric clamping design and many other functions.

The frames of our cutting machines 122 - 322 can be fitted with a cutting motor, a bevelling motor or with a TIG welding torch.

Our ECO range differs from this concept and is specialized in cutting thin wall tubes. It offers the same quality of cut than the CC 122 - 322 range in a more affordable package for customers who do not need to bevel or weld with the same machine.

We developed the ECO cutting range in order to respond to these users looking simply for a cutting solution for thin tubes.

Machines dedicated to thin tubes < 5 mm wall thickness*

Easy to move around and lightweight

Attractive prices

AXXAIR choose Metabo to power our ECO range because of the large speed range and higher torque matching the requirements for cutting stainless steel thin wall tubes.

The handle of the Metabo power unit also makes easy and convenient to rotate the blade around the tube.

Our 121 and 171ECO range share the same safe and efficient diameter setting and blade penetration unit than our CC range.

The ECO range comes in a more affordable package but still features most of the designs that made our more advanced CC range so popular among the industry.

Because our ECO range is dedicated to cutting, some of the upgrades and accessories available on the CC range like automatic rotation or automatic clamping are not available for this type of cutting machines.

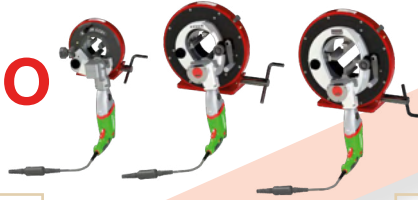
For more details, accessories and the references please see the following pages of this catalogue.



*depending on the type of steel

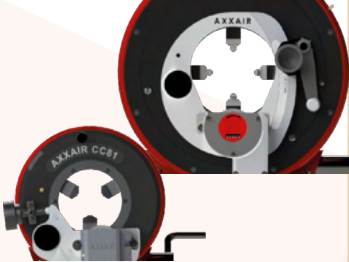


81M - 121ECO - 171ECO



No tube deformation

Concentric clamping system



Basic and extra stainless steel jaws: no pollution of stainless steel tubes

Cutting precision

Perpendicular cuts < 0.25 mm

Operator safety feature

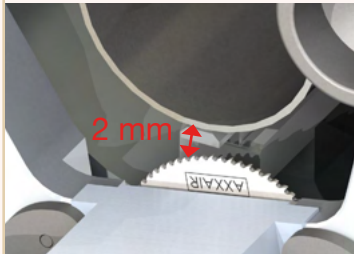
Penetration check feature

Uptake

121ECO +171ECO: feature a dual blade position allowing to cut elbows or flanges with no wasting of tube.

Limited vibration and tube distortion

Optimised blade to jaws distance



Motor 1300W

Speed adjustment through gearbox and electronic variator

Cutting capacity:

Up to 5 mm wall thickness*



Easy handling and transportation



Continuous use

Anti-twist cable with bearings. Protects the electric cable from damage resulting from rotation around the tube.

Opening capacity

81M	ø5 - ø78 mm 0.25 - 3 "
121ECO	ø5 - ø121 mm 0.25 - 4.5 "
171ECO	ø16 - ø170 mm 0.625 - 6.625 "

*depending on the type of steel



81M - 121ECO - 171ECO

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Technical features :

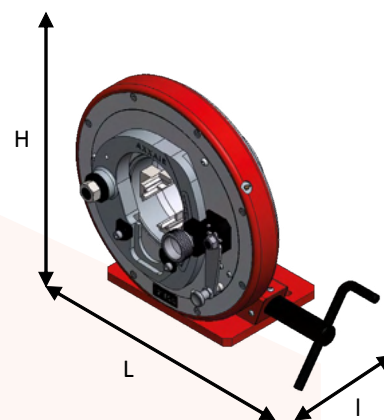
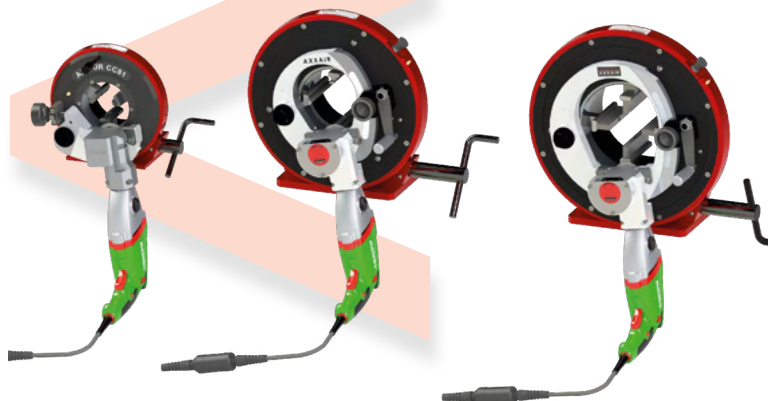
With the Metabo power unit, our ECO range features a large range of blade rotation speed and the right torque for cutting stainless steel thin wall tubes.

Electric motor 1300W:

- Mechanical gearbox and electric speed variator
- 50/60 HZ
- single-phase motor

Except the 81M, all the machines' cutting motors are shipped in a convenient carrying case together with all necessary tools for operating the machine.

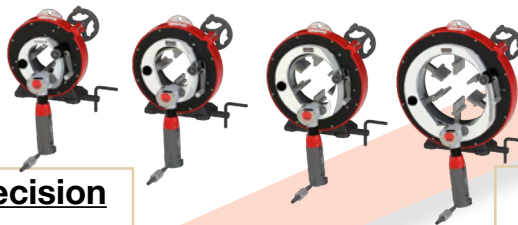
Because of its small form and low weight, the 81M cutting motor and the tools are included in the machine's transport case.



	Product Code	Machine's jaw opening capacity in mm		Net weight	Dimensions (HxLxw in mm)
		With basic jaws	With extra jaws (included)		
120V 1300W	81M11	Ø5 - Ø78	-	15 kg	263 x 346 x 236
	121ECO1	Ø24 - Ø121	Ø5 - Ø108	38 kg	432 x 520 x 297
	171ECO1	Ø70 - Ø170	Ø16 - Ø118	44 kg	453 x 550 x 307
230V 1300W	81M21	Ø5 - Ø78	-	15 kg	263 x 346 x 236
	121ECO2	Ø24 - Ø121	Ø5 - Ø108	38 kg	432 x 520 x 297
	171ECO2	Ø70 - Ø170	Ø16 - Ø118	44 kg	453 x 550 x 307

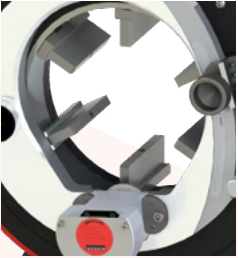


122 - 172 - 222 - 322



No tube deformation

Concentric clamping



Basic and extra stainless steel jaws: no pollution of stainless steel tubes

Cutting precision

Perpendicularity of < 0.25 mm

Cutting quality

Rotation handle for controlled and continuous cutting speed

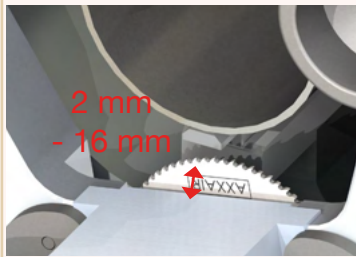
A perfect sealing against chips

All rotating parts are incorporated in the body



Reduced vibration and increased blade life

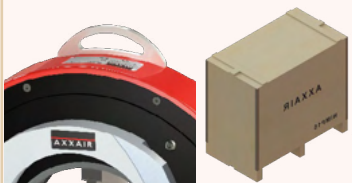
Optimised blade to jaw distance



1200W motor or pneumatic motor (as required)

Cutting capacity: Up to 5 mm wall thickness*

Easy handling and transportation



Continuous use

Anti-twist cable with bearings. Protects the electric cable from damage resulting from rotation around the tube.

Global Process

Can be transformed into an orbital bevelling and welding machine

Uptake

feature a dual blade position allowing to cut elbows or flanges with no wasting of tube.

Opening capacity

122	ø5 - ø119 mm 0.25" - 4.5"
172	ø16 - ø173 mm 0.625" - 6.625"
222	ø55 - ø228 mm 2.375" - 8.625"
322	ø141 - ø328 mm 5.563" - 12.750"

*depending on the type of steel



122- 172 - 222- 322



AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

Technical features:

- Fast speed motor:

120V or 230V, 1200W, electronic speed variator with cutting compensator
Vibration level according to EN 28662 norm : <math><2.5m/s^2</math>, protection class : IP 20
Rotation speed (6 speed variations): from 95 RPM to 280 RPM

- Pneumatic motor:

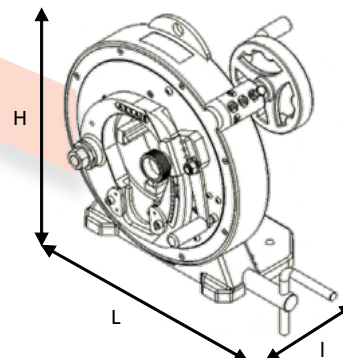
60 to 110 rpm, air flow rate 1500 l/min at 6 bar.

- Robustness:

Very efficient clamping system thanks to a screw without end directly engaged on the clamping cam.

- Easy maintenance and control:

Lubrication of the inner parts with the grease nipples

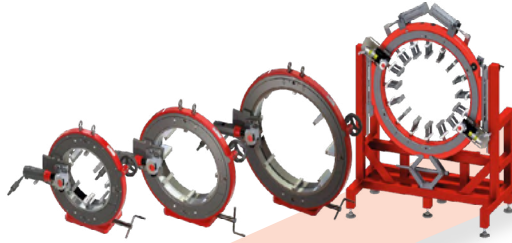


All motors are supplied in their own individual cases, including the necessary tools

	Product Code	Machine's jaw opening capacity in mm		Net weight	Dimensions (HxLxw in mm)
		With basic jaws	With extra jaws (included)		
120V 1200W fast motor	122FS19	Ø29 - Ø119	Ø5 - Ø99	44 kg	443 x 541 x 304
	172FS19	Ø74 - Ø173	Ø16 - Ø116	51 kg	493 x 566 x 304
	222FS19	Ø128 - Ø228	Ø55 - Ø155	59 kg	548 x 594 x 304
	322FS19	Ø230 - Ø328	Ø141 - Ø239	71 kg	649 x 644 x 304
230V 1200W fast motor	122FS29	Ø29 - Ø119	Ø5 - Ø99	44 kg	443 x 541 x 304
	172FS29	Ø74 - Ø173	Ø16 - Ø116	51 kg	493 x 566 x 304
	222FS29	Ø128 - Ø228	Ø55 - Ø155	59 kg	548 x 594 x 304
	322FS29	Ø230 - Ø328	Ø141 - Ø239	71 kg	649 x 644 x 304
Pneu- matic motor	122PD	Ø29 - Ø119	Ø5 - Ø99	44 kg	443 x 541 x 304
	172PD	Ø74 - Ø173	Ø16 - Ø116	51 kg	493 x 566 x 304
	222PD	Ø128 - Ø228	Ø55 - Ø155	59 kg	548 x 594 x 304
	322PD	Ø230 - Ø328	Ø141 - Ø239	71 kg	649 x 644 x 304



421- 521-721-1100



No tube deformation

Concentric clamping



Basic and extra **stainless steel** jaws: no pollution of stainless steel tubes

Cutting precision

Perpendicular cuts < 0.4 mm

Uptake

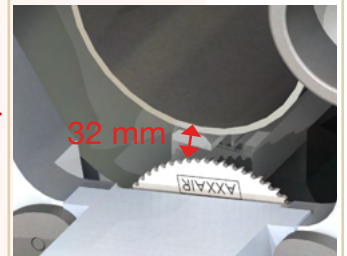
feature a dual blade position allowing to cut elbows or flanges with no wasting of tube.

Cutting quality

Rotation handle for controlled and continuous cutting speed

Reduced vibration and increased blade life

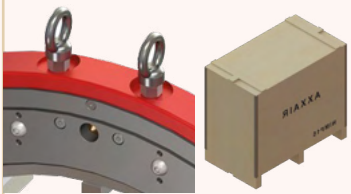
Optimised blade to jaw distance



Continuous use

Anti-twist cable with bearings. Protects the electric cable from damage resulting from rotation around the tube.

Easy handling and transportation



1200W motor or pneumatic motor (as required)

Cutting capacity:
Up to a wall thickness of 5 mm*

Opening capacity

421	ø212 - ø422 mm 8.625 - 16 "
521	ø312 - ø522 mm 12.75 - 20 "
721	ø447 - ø725 mm 18 - 28"
1100	ø711 - ø1016 mm 28 - 40 "

*depending on the type of steel



421- 521-721-1100



Technical features:

- Fast motor:

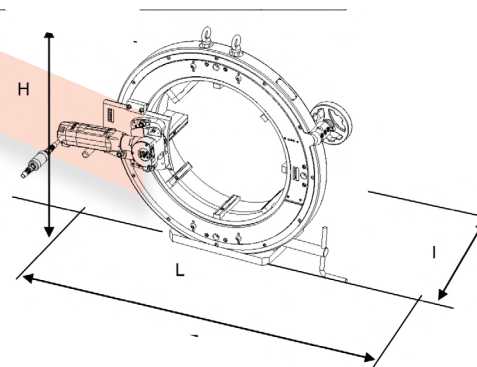
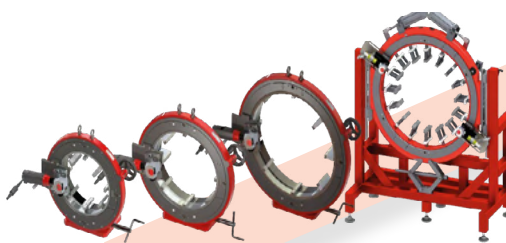
120V or 230V, 1200W, electronic speed variator with cutting compensator
 Vibration level according to EN 28662 norm : <math>< 2.5m/s^2</math>, protection class : IP 20

Rotation speed (6 speed variations): from 95 RPM to 280 RPM

- Pneumatic motor:

60 to 110 rpm, air flow rate 1500 l/min at 6 bar

All motors are delivered in their individual case, including the necessary tools



	Product Code	Machine's jaw opening capacity in mm		Net weight	Dimensions (HxLxw in mm)
		With basic jaws	With extra jaws (included)		
120V 1200W fast motor	421FS19	Ø350 - Ø422	Ø212 - Ø352	186 kg	802x838x315
	521FS19	Ø450 - Ø522	Ø312 - Ø452	223 kg	905x889x315
	721FS19	Ø653 - Ø725	Ø447 - Ø654	256 kg	1104x1077x315
230V 1200W fast motor	421FS29	Ø350 - Ø422	Ø212 - Ø352	186 kg	802x838x315
	521FS29	Ø450 - Ø522	Ø312 - Ø452	223 kg	905x889x315
	721FS29	Ø653 - Ø725	Ø447 - Ø654	256 kg	1104x1077x315
Pneu- matic motor	421PD	Ø350 - Ø422	Ø212 - Ø352	186 kg	802x838x315
	521PD	Ø450 - Ø522	Ø312 - Ø452	223 kg	905x889x315
	721PD	Ø653 - Ø725	Ø447 - Ø654	256 kg	1104x1077x315
	1100	On demand			



Orbital cutting - Accessories



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

The great advantages of these products:

- lightness
- flexible handling
- easy to use



Product Code	Description	Net Weight	Dimensions (in cm)
CCPS21	Support feet	10 kg	103 x 32 x 11

Support legs for orbital cutting machine:

- quick assembling and dismantling
- storage box at the back
- height adjustment with screws
- optimum stability

81	✓121ECO	✓171ECO	✓122	✓172	✓222	✓322	421	521	721	1100
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Product Code	Description	Net Weight	Dimensions (in cm)
CCSER1	Simple stand	10 kg	60 x 26 x 10

Simple stand for supporting tubes with height adjustment:

- quick assembling and dismantling
- height adjustment

✓81	✓121ECO	✓171ECO	✓122	✓172	✓222	✓322	421	521	721	1100
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Product Code	Description	Net Weight	Dimensions (in cm)
CCSER2	Stand (with chrome steel bearings)	11 kg	60 x 26 x 10

Stand with chrome steel bearings for supporting tubes with height adjustment:

- easy assembling and dismantling
- facilitates tube feeding after each cut
- height adjustment

✓81	✓121ECO	✓171ECO	✓122	✓172	✓222	✓322	421	521	721	1100
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Orbital cutting - 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 cutting 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 cutting machine using one or more additional benches, depending on the length of the tube.



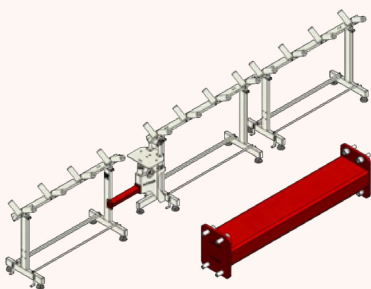
Product Code	Description	Net Weight	Dimensions (in cm)
CCBSB-X1	Bench with height adjustment	57 kg	184 x 95 x 51
<u>Height-adjustable support bench, 1.5m</u>			
- stainless steel rollers		- maximum load: 350 kg	
- handle for height adjustment		- ø min pipe: 5 mm	
- 1.5 m long		- ø max pipe: 321 mm	
		- compatible with machines 121 to 321	

81	✓ 121ECO	✓ 171ECO	✓ 122	✓ 172	✓ 222	✓ 322	421	521	721	1100
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Product Code	Description	Net weight	Dimensions (in cm)
CCBSB-X2	Additional 1.5 m bench	38 kg	150 x 95 x 51
<u>Additional support bench:</u>			
- stainless steel rollers		- ø min pipe : 5 mm	
- 1.5 m long		- ø max pipe: 321 mm	
- maximum load 350 kg uniformly distributed		- compatible with machines 121 to 321	

81	✓ 121ECO	✓ 171ECO	✓ 122	✓ 172	✓ 222	✓ 322	421	521	721	1100
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Product Code	Description	Net Weight	Dimensions (in mm)
CCBSB-B005	Connection	3 kg	100 x 80 x 402
<u>Connecting bar for CCBSB-X1 and CCBSB- X2:</u>			
- Allows the height-adjustable table to be connected to a bench placed in front of the machine			

81	✓ 121ECO	✓ 171ECO	✓ 122	✓ 172	✓ 222	✓ 322	421	521	721	1100
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Orbital cutting - Accessories (End stop)

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

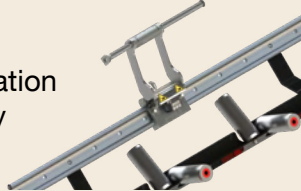
In addition to our CCBB-X1 and CCBB-X2 benches, we offer benches with an end stop system. These stops are very simple to use and avoid all measurement errors.

No pollution of the tube:

All parts that are in contact with the tube are made of stainless steel (the rollers but also the stop finger)

Retractable stop:

In order to facilitate the evacuation of the cut, the stop is manually retractable.



- Lengths available:
1500 - 3000 - 4500 - 6000 - 7500 and 9000 mm
- Working stroke: Length - 200 mm
- Delivered by module of 1500mm to be put together
- Max load per module: 350 kg (evenly distributed)
- Max push on the stop: 10 kg
- Operating temperature: 0 - 50 ° C
- Relative humidity: 35 - 85%

They can be assembled on the **feed-in or feed-out** section of the cutting machine

They are available **with a ruler or with an LCD display.**

Feed-in assembly



Feed-out assembly



LCD display

Possibility of selecting the direction of counting, the position of the decimal point, the unit of measurement (mm or inches), reset / preset of the measurement, absolute / relative dimension.

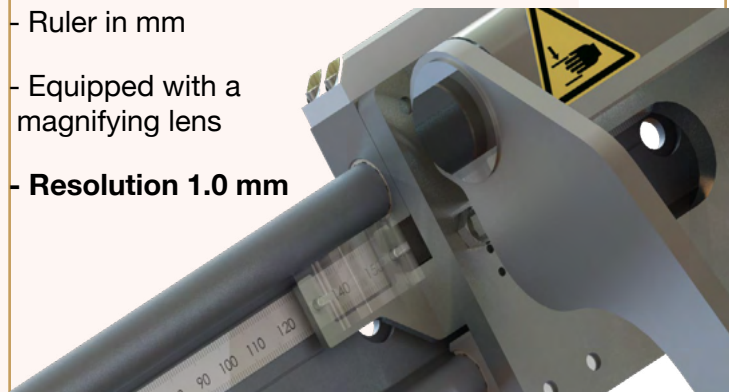
- Battery powered. Lifetime of about 4 years. The discharged battery icon appears when battery replacement is required. Replacement is easily done without loss of the value and configuration parameters.



- Resolution 0.1 mm

Ruler

- Ruler in mm
- Equipped with a magnifying lens
- Resolution 1.0 mm



81	✓121ECO	✓171ECO	✓122	✓172	✓222	✓322	421	521	721	1100
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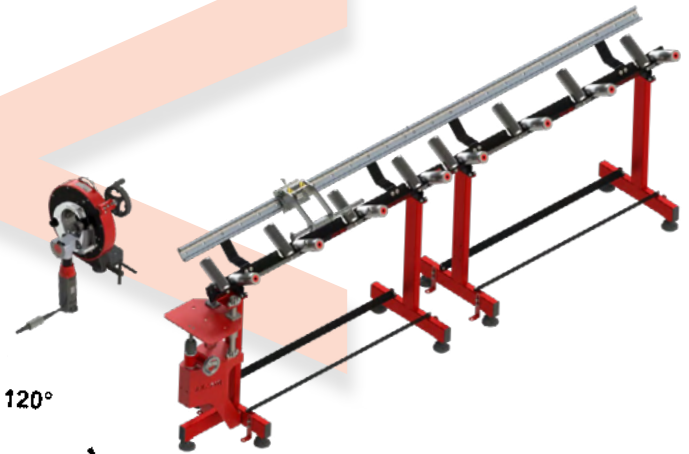
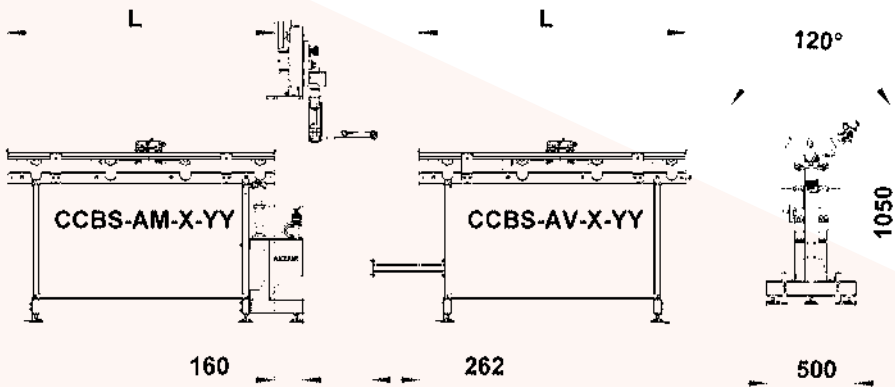


Orbital cutting - Accessories (End stop)



Feed-in assembly

The parts are delivered unassembled in transport boxes, per module of 1,5 m.
They must be assembled, aligned and fixed to the ground. The magnetic ruler (with LDC display) or the ruler must be glued at the end of the assembly.



The system is delivered with the height-adjustable support bench (CCBSB-X1), additional support benches, the starting end stop module and its extensions.

Assembly	Reader	Length (in mm)	Working stroke (in mm)	Product code	Net weight					
on the feed-in section of the cutting line	Ruler	1500	1300	CCBSB-AM-R-15	65 kg					
		3000	2800	CCBSB-AM-R-30	104 kg					
		4500	4300	CCBSB-AM-R-45	143 kg					
		6000	5800	CCBSB-AM-R-60	163 kg					
		7500	7300	CCBSB-AM-R-75	200 kg					
		9000	8800	CCBSB-AM-R-90	238 kg					
	LCD display	1500	1300	CCBSB-AM-D-15	65 kg					
		3000	2800	CCBSB-AM-D-30	104 kg					
		4500	4300	CCBSB-AM-D-45	143 kg					
		6000	5800	CCBSB-AM-D-60	163 kg					
		7500	7300	CCBSB-AM-D-75	200 kg					
		9000	8800	CCBSB-AM-D-90	238 kg					
81	✓121ECO	✓171ECO	✓122	✓172	✓222	✓322	421	521	721	1100

You can add CCBBSB-X2 modules to support the tube after the cutting process (in front of the cutting machine) with the CCBSB-B005 connecting bar (see previous pages).



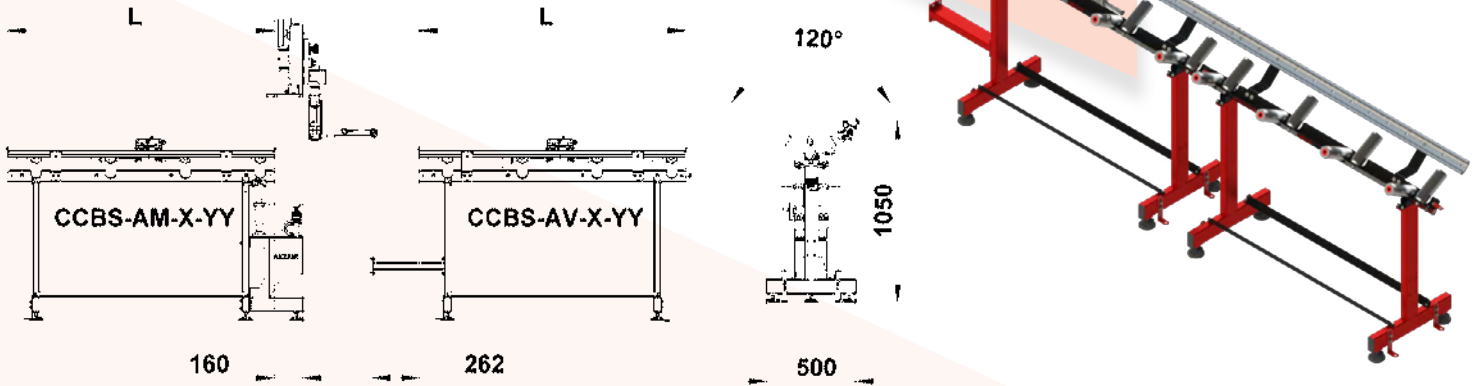


Orbital cutting - Accessories (End stop)



Feed-out assembly

The parts are delivered unassembled in transport boxes, per module of 1,5 m. They must be assembled, aligned and fixed to the ground. The magnetic ruler (with LDC display) or the ruler must be glued at the end of the assembly.



The system comes with: CCBSB-X2 support bench modules, the starting end stop module and its extensions, the CCBSB-B005 connecting bar.

Attention: For all references with AV (bench with end stop on the feed-out section) we must also deliver at least one CCBSB-X1 bench (height-adjustable support bench) to support the cutting machine.

Assembly	Reader	Length (in mm)	Working stroke (in mm)	Product code	Net weight
on the feed-out section of the cutting line	Ruler	1500	1300	CCBSB-AV-R-15	46 kg
		3000	2800	CCBSB-AV-R-30	85 kg
		4500	4300	CCBSB-AV-R-45	124 kg
		6000	5800	CCBSB-AV-R-60	163 kg
		7500	7300	CCBSB-AV-R-75	201 kg
		9000	8800	CCBSB-AV-R-90	240 kg
on the feed-out section of the cutting line	LCD display	1500	1300	CCBSB-AV-D-15	46 kg
		3000	2800	CCBSB-AV-D-30	85 kg
		4500	4300	CCBSB-AV-D-45	124 kg
		6000	5800	CCBSB-AV-D-60	163 kg
		7500	7300	CCBSB-AV-D-75	201 kg
		9000	8800	CCBSB-AV-D-90	240 kg

81	✓121ECO	✓171ECO	✓122	✓172	✓222	✓322	421	521	721	1100
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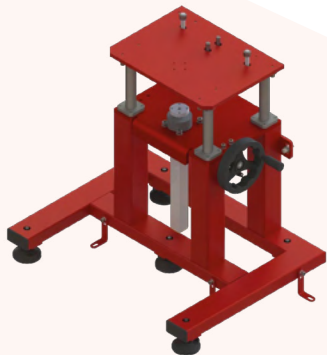
Orbital cutting - Accessories



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 cutting 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 cutting machine using one or more additional benches, depending on the length of the tube.

These products are available on request



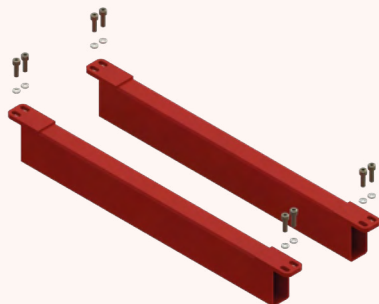
Product Code	Description	Net weight	Dimensions (in mm)
CCBSB2-003	Height-adjustable table	53.5 kg	75 x 73 x 54
<u>Height-adjustable table for 422 / 521 / 721:</u>			
- adjustable table height		- optimum stability	

81	121ECO	171ECO	122	172	222	322	✓421	✓521	✓721	1100
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Product Code	Description	Net Weight	Dimensions (in mm)
CCBSB2-004	Support bench	72.8 kg	97 x 71 x 150
<u>Tube support bench for 422 / 521 / 721:</u>			
- quick assembly and dismantling - 1.5 m long		- optimum stability	
- height adjustment			

81	121ECO	171ECO	122	172	222	322	✓421	✓521	✓721	1100
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Product Code	Description	Poids net	Dimensions (en mm)
CCBSB2-005	Connecting bar	6.5 kg	8.5 x 4 x 65
<u>Connecting bar between two CCBSB2 support benches:</u>			
- quick assembly and dismantling		- ensures optimum stability	

81	121ECO	171ECO	122	172	222	322	✓421	✓521	✓721	1100
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Orbital cutting - Accessories



New autoline electric rotation:

- Measures and displays the cutting/bevelling motor's power consumption
- enables the motor and cycle to be stopped in the event of overconsumption
- protects the motor and frees the operator from watching the machine
- detects whether the motor is straining and whether the blade is worn

3.5 colour touch-screen allowing you to:

- enter the diameter and precisely adjust the feed speed in mm/min
- aid adjustment with a suggested motor speed and feed speed based on the type of material and the blade used
- perform quick and easy configuration
- display the cutting/bevelling motor's consumption
- display in English, French or German
- choose the unit of measure: mm or inch

Welding mode with prefab machine and SAXX power source : 4-button display (Start, Stop, Left, Right) with the addition of a power source connection cable
 (Ref. SAEX-A02 for addition, more details in the "ORBITAL WELDING" section of this catalogue)

This rotation is compatible with our previous **121, 171, 221, 321, 421, 521 and 721** models.

The previous SAEP-00/000 rotation cannot be fitted to our new 122, 172, 222 and 322 models.



Product Code	Description	Net Weight	Dimensions (in mm)
SAEX-00	Autoline electric rotation	6.3 kg	320 x 261x 193

Autoline electric inverter for CC122 to 322:

- 110 V to 230 V
- even rotation
- easy to use
- precise adjustment

81	121ECO	171ECO	✓ 122	✓ 172	✓ 222	✓ 322	421	521	721	1100
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Product Code	Description	Net Weight	Dimensions (in mm)
SAEX-000	Autoline electric rotation	6.3 kg	320 x 261x 193

Autoline electric inverter for CC421 to 721:

- 110 V to 230 V
- even rotation
- easy to use
- precise adjustment

81	121ECO	171ECO	122	172	222	322	✓ 421	✓ 521	✓ 721	1100
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AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Accessories (electric clamping)

NEW



You realize **important series** in your company and want to be more effective during your projects? Our electric clamping is the ideal answer for the preparation and / or welding of your tubes.

The electric clamping makes it possible to carry out a **repetitive and constant force tightening** on tubes with identical diameters and thicknesses. The **clamping force is adjustable**, it prevents the tubes from being deformed or marked.

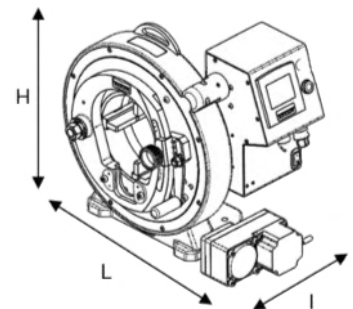
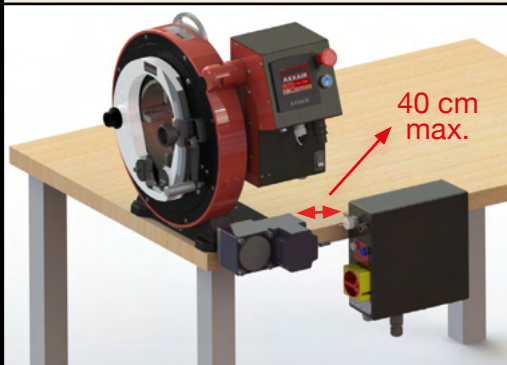
Technical specifications:

- 24Vdc brushless motor, motor torque: 34N.m
- Tightening force on the tube: 850 kg maximum, adjustable from 15 to 100%
- Clamping speed: 86 mm / min (diameter)
- The electric clamping is sold with the body frame and the automatic rotation

Fixation on an AXXAIR support bench



Fixation on an other support (example: workbench)



Product code	Body frame, automatic rotation and electric clamping Machine's jaw opening capacity in mm		Net weight	Dimensions (HxLxI in mm)
	With basic jaws	With extra jaws (included)		
122-AU	Ø29 - Ø119	Ø5 - Ø99	51 kg	470 x 498 x 359
172-AU	Ø74 - Ø173	Ø16 - Ø116	58 kg	520 x 530 x 359
222-AU	Ø128 - Ø228	Ø55 - Ø155	66 kg	575 x 575 x 359
322-AU	Ø230 - Ø328	Ø141 - Ø239	80 kg	675 x 662 x 359

Caution: Remember to order one or more motors (cutting, beveling or welding torch) and the consumables needed with the sets listed above.

Join **experience**

www.axxair.com



Orbital cutting - Consumables



Orbital cutting blades

High quality blades (HSS + Cobalt) sold in boxes of 5:

- The tooth pitch & design are essential for chip evacuation, in order to achieve a high quality cut. AXXAIR has produced the most efficient blade design possible for various cutting applications.
- Often preferred to our competitors' blades, AXXAIR blades are compatible with the majority of other orbital cutting machines.

Product Code	Cutting tubes with wall thickness of		ø of the blade	Number of teeth
LS63128	0,5 to 0,9 mm	,02 - ,04"	63 mm	128
LS63100	0,7 to 1,5 mm	,03 - ,06"	63 mm	100
LS6364	1 to 3 mm	,04 - ,12"	63 mm	64
LS6872	1 to 3 mm	,04 - ,12"	68 mm	72
LS6844	2 to 7mm	,08- ,28"	68 mm	44
LS8080	1 to 3 mm	,04 - ,12"	80 mm	80
LS8054	2 to 7 mm	,08- ,28"	80 mm	54

✓ 81	✓ 121ECO	✓ 171ECO	✓ 122	✓ 172	✓ 222	✓ 322	✓ 422	✓ 521	✓ 721	✓ 1100
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Product Code	Description	Volume
CCLUH	Liquid lubricant	250 ml

High performance oil lubricant, sold in packs of 5:

- Recommended for all FS cutting motors
- Safety data sheet available on request

81	121ECO	171ECO	✓ 122	✓ 172	✓ 222	✓ 322	✓ 422	✓ 521	✓ 721	✓ 1100
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Product Code	Description	Volume
CCLUP	Paste lubricant	250 ml

Paste lubricant, sold in packs of 5 lubricants-tubes:

- Recommended for metabo motors
- Safety data sheet available on request

✓ 81	✓ 121ECO	✓ 171ECO	122	172	222	322	422	521	721	1100
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1 machine - 3 applications

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

The AXXAIR Group was the first to offer a triple and exclusive solution, from preparation to orbital welding:

the global process

For more than 20 years, a single machine frame (122, 172, 222 and 322) has enabled three operations to be carried out:

Cutting, bevelling and orbital welding



Cutting motor, bevelling motor or orbital welding torch interface

Join **experience**



A machine - 3 applications

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS



Product Code	Description	Net weight
FS xx / MOPD	Cutting motor	5 kg
Low-speed / high-speed / pneumatic motor with dual output (uptake):		
120V	Low-speed motor: FS15	122
	High-speed motor: FS19	
230V	Low-speed motor: FS25	222
	High-speed motor: FS29	
Pneumatic	MOPD	322

To use this motor you will need to order: suitable cutting blades for the tube thickness you want to cut and, if necessary, lubricant.

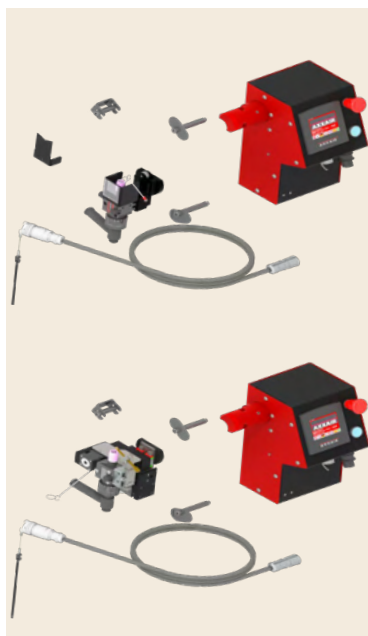
All information and relevant product codes appear in the orbital cutting accessories and consumables section of this catalogue.



Product Code	Description	Net Weight			
GA10 - x - xx	Beveling motor kit	5 kg			
120V / 230V beveling motor supplied with a chip shield and a workpiece guide tailored to the frame of your cutting / prefab welding machine:					
120V	Product Code	Frame	230V	Product Code	Frame
	GA10-M1-122	122		GA10-M2-122	122
	GA10-M1-172	172		GA10-M2-172	172
	GA10-M1-222	222		GA10-M2-222	222
	GA10-M1-322	322		GA10-M2-322	322

To use this motor and bevel your tubes you will need to order: one or more milling heads and carbide inserts.

All information and relevant product codes appear in the orbital beveling accessories and consumables section of this catalogue.



Product Code	Description	Net Weight
SX - KIT x	Torch kit	depending on the chosen product
KIT for upgrading a CC/GA to an SX Air / Water / AVC+OSC torch		
Cooling	Product Code	Frame
AIR	SX-2KITA	122
EAU	SX-2KITE	172
	SX-2KITNAOF (AVC/OSC)	222
		322
If you have acquired the electrical clamping (xx2-AU), please order the references below, they are delivered without automatic rotation:		
AIR	SX-3KITA	122
EAU	SX-3KITE	172
	SX-3KITNAOF (AVC/OSC)	222
		322

To use this KIT and to prefab weld, you will need to order: a suitable AXXAIR welding power supply for the tubes you want to weld.

All information and relevant product codes appear in the orbital welding section of this catalogue.



Join **experience**



AXXAIR Orbital facing

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

Tube facing is used on thin tubes with a thickness of less than 3 mm. It consists in bringing into conformity the end of a tube or an accessory.

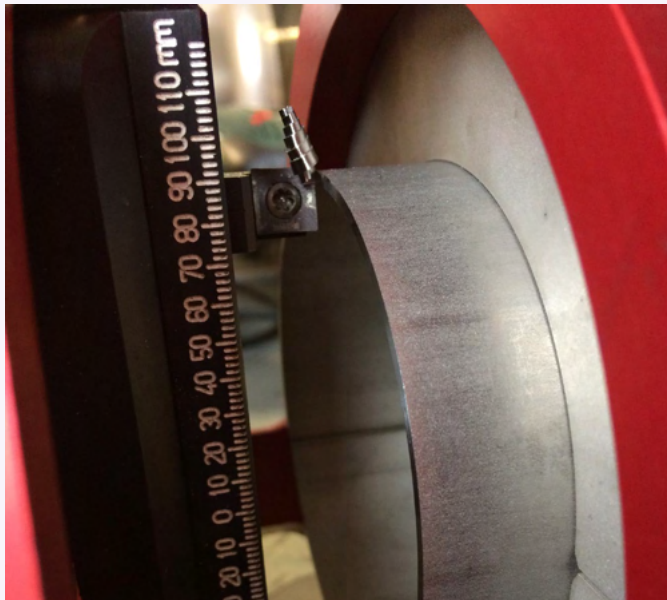
This conformity acts on three aspects:

the perpendicularity of the face of the tube -
the surface state of the face - potentially a length adjustment.

After the facing process, the face will be perpendicular to the axis of the tube, without burrs, with a low RA and the desired length.

Facing machines are used when the cutting process is not sufficiently precise for the application or when the cutting process generates burrs.

To give an exemple: abrasive cutting disc, band saw or tube cutter.



Tube with small diameters <math><25.4\text{ mm}</math> are particularly concerned by the facing process. They are often cut with tube cutters or abrasive cutting machines. Generally speaking, tube must be faced before welding in order to obtain quality welds.

One category of tube is particularly concerned: electro-polished tube used in semiconductor or pharmaceutical industries.

It is forbidden to scratch the polished surface inside the tubes: the cuts are therefore only done with a cutting wheel. This process does not generate chips but only dust. The result of this cut is not exploitable without a facing operation which unrolls the chip towards the outside of the tube.

FLEXIBILITY, PRODUCTIVITY

Our facing machines operate on battery or corded for more flexibility TIALN blades, reversible with two cutting edges guarantee optimal lifetime of consumables.

QUALITY

Facing creates a clean and bur-free surface without tube deformation: sharpness and accuracy guaranteed.

Thin tube are therefore ready for welding.

PORTABILITY

Our facing machines are lightweight and designed to be used on site as well as in the workshop.



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

We will be glad to share our know-how with you and find an adapted solution to your needs!

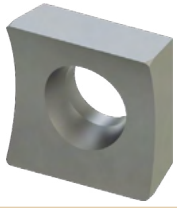


DC25 MA - DC65 MA

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

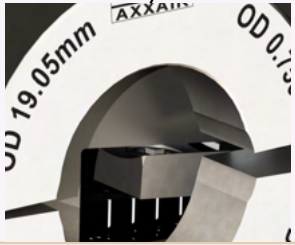
High quality blades

HSS TIALN blade
Reversible,
two cutting edges



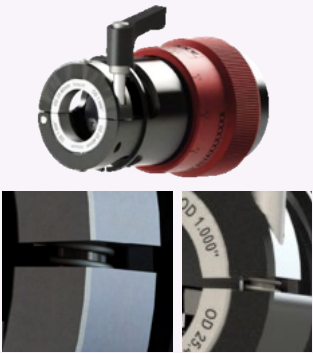
Clamping shells

Stainless steel
molded jaws



Easy adjustment

Indexable wrist and
wide opening with
spring



Brushless motor 18V

- 2 mechanical speeds + electric speed variator
- Special handy design
- Work without return shock
- Integrated work lamp
- Comes with two 5.2 AH battery, LiHD technology, maximum autonomy

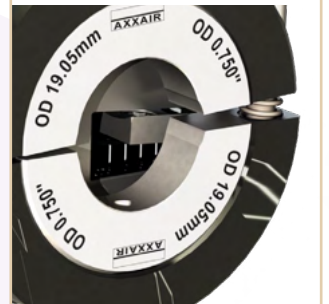
Accurate manual advance

Graduated vernier
scale



Easy set up of the tube

Large opening and
pivot clamping



Delivered in an anti-shock case

Water- and dustproof



Facing range

DC25-MA	ø3 - ø25.4 mm 0.1 - 1"
DC65-MA	ø3 - ø63.5 mm 0.1 - 2.5"

DC25 MA - DC65 MA

Technical characteristics:

Thickness < 3 mm (0,12") according to material

Burr-free tube squaring and edge breaking machine used after a band saw cut or on electro-polished tubes. Ideal tool to face a band saw cut before automatic welding

18 V Drill / Driver motor:

- 220-240 V ~ 50 / 60Hz or 100-120V ~ 60Hz
- High rotation torque
- Rugged reduction housing which allows heat dissipation and optimal durability
- Come with two 18V Li-Power, 5.2 Ah batteries and a fast battery charger
- 2 mechanical speeds + electric speed variator :

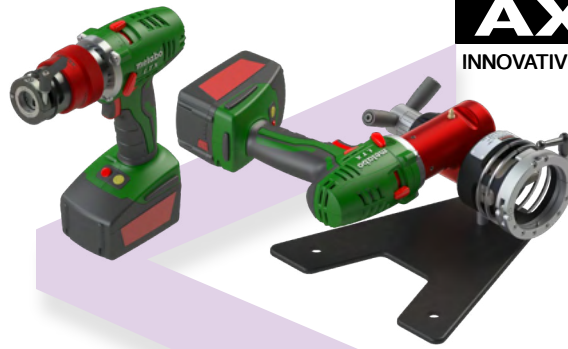
Speed 1 : 0-500 tr/min (rpm)

Speed 2 : 0-1700 tr/min (rpm)

All motors are supplied in their own individual cases, including the necessary tools

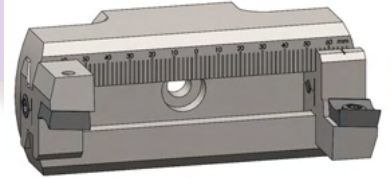
DC25

There are two mounting positions for the blade to cover the range of diameter.



DC65

Adjustment of the tool support by sliding: allows easy adjustment according to diameter and optimization of tool wear.



- 30° and 45° outside bevel possible with optional tool holder
- Facing and bevelling in one operation
- Possibility to use two tools simultaneously

DC65 : Flexible use



	Product Code	Facing machine for the following diameters (mm)	Net weight	Minimal straight length of tube	Dimensions (HxLxI in mm)
120 V Drill / Driver	DC25-MA1	Ø3 - Ø25.4 0.1 - 1"	2.5 kg	With standard jaws : 9mm (0.354") With micro-fit jaws : 5mm (0,196")	285 x 220 x 75
	DC65-MA1	Ø3 - Ø63.5 0.1 - 2.5"	5.5 kg	With standard jaws : 10mm (0,393")	140 x 325 x 250
230 V Drill / Driver	DC25-MA2	Ø3 - Ø25.4 0.1 - 1"	2.5 kg	With standard jaws : 9mm (0.354") With micro-fit jaws : 5mm (0,196")	285 x 220 x 75
	DC65-MA2	Ø3 - Ø63.5 0.1 - 2.5"	5.5 kg	With standard jaws : 10mm (0,393")	140 x 325 x 250

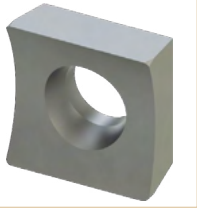


DC25 MS - DC65 MS

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

High quality blades

HSS TiAlN blade
Reversible,
two cutting edges



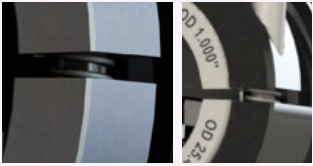
Clamping shells

Stainless steel
molded jaws



Easy adjustment

Indexable wrist and
wide opening with
spring



Mains motor, 1100 W

- 2 mechanical speeds + electric speed variator
- Special handy design
- Work without return shock
- Rugged reduction housing which allows heat dissipation and optimal durability

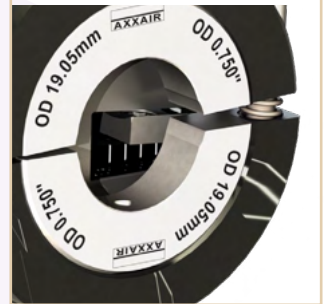
Accurate manual advance

Graduated vernier
scale



Easy set up of the tube

Large opening and
pivot clamping



Delivered in an anti-shock case

Water- and dustproof



Facing range

DC25-MS	ø3 - ø25.4 mm 0.1 - 1"
DC65-MS	ø3 - ø63.5 mm 0.1 - 2.5"

DC25 MS - DC65 MS

Technical characteristics:

Thickness < 3 mm (0,12") according to material

Burr-free tube squaring and edge breaking machine used after a band saw cut or on electro-polished tubes. Ideal tool to face a band saw cut before automatic welding

Mains motor 1100 W:

- 220-240 V ~ 50 / 60Hz or
- 100-120V ~ 60Hz
- High rotation torque
- Two speed gearbox with variable speed drive
- High quality speed controller
- Immobilizer protection
- Housing reducer in cast aluminium

- 2 mechanical speeds + electric speed variator :
Speed 1 : 0-1000 tr/min (rpm)
Speed 2 : 0-3100 tr/min (rpm)

All motors are supplied in their own individual cases, including the necessary tools

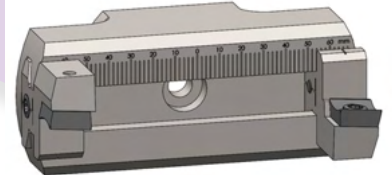
DC25

There are two mounting positions for the blade to cover the range of diameter.



DC65

Adjustment of the tool support by sliding: allows easy adjustment according to diameter and optimization of tool wear.



- 30° and 45° outside bevel possible with optional tool holder
- Facing and bevelling in one operation
- Possibility to use two tools simultaneously

DC65 : Flexible use



	Product Code	Facing machine for the following diameters (in mm)	Net weight	Minimal straight length of tube	Dimensions (HxLxI in mm)
1100W 120 V	DC25-MS1	Ø3 - Ø25.4 0.1 - 1"	2.5 kg	With standard jaws : 9mm (0.354") With micro-fit jaws : 5mm (0,196")	300x 370 x 76
Mains motor	DC65-MS1	Ø3 - Ø63.5 0.1 - 2.5"	5.5 kg	With standard jaws : 10mm (0,393")	132 x 345 x 340
1100W 230 V	DC25-MS2	Ø3 - Ø25.4 0.1 - 1"	2.5 kg	With standard jaws : 9mm (0.354") With micro-fit jaws : 5mm (0,196")	300x 370 x 76
Mains motor	DC65-MS2	Ø3 - Ø63.5 0.1 - 2.5"	5.5 kg	With standard jaws : 10mm (0,393")	132 x 345 x 340



DC115-AM - 221-AM

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS



Clamping shells

DC115 : Stainless steel clamping jaws

DC221 : Aluminium clamping jaws



Accurate manual advance

0.1 mm steps (0,0393")

30° and 45° outside bevel

possible with optional tool holder

Easy set up of of tube

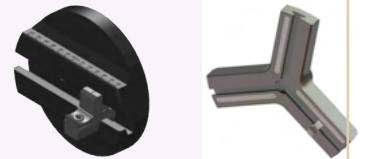
1 set of jaws for each diameter



Multi-tools

Possibility to use two (DC115) or three (DC221) tools simultaneously

Sliding adjustment of tool holder offers easy diameter change and optimal tip wearing



Delivered in a wooden box



1100 W motor

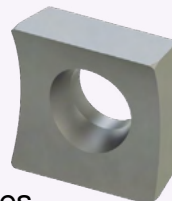
Motor mains 1100W with large speed range (2 gears)

Screw and wheel drive to optimize the speed range and eliminate vibrations

High quality blades

HSS TIALN blade.

Reversible, two cutting edges



Facing range

DC115 AM	ø12 - ø115 mm 0.5" - 4.5"
DC221 AM	ø50 - ø220 mm 2" - 8.5"

DC115-AM - 221-AM

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INNOVATIVE ORBITAL SOLUTIONS



Technical characteristics:

Thickness < 3 mm (0,12") according to material

Burr-free tube squaring and edge breaking machine used after a band saw cut or on electro-polished tubes. Ideal tool to face a band saw cut before automatic welding

- Accurate manual advance: 4/1000" (0,1 mm) step graduation
- Sliding adjustment of tool holder offers easy diameter change and optimal tip wearing
- 30° and 45° outside edge breaking possible with optional tool holder
- Squaring and edge breaking in one operation

- **Motor 1100W**, large speed range (2 gears): Screw and wheel drive to optimize the speed range and eliminate vibrations



All motors are supplied in their own individual cases, including the necessary tools

	Product Code	Facing machine for the following diameters (in mm)	Net weight	Minimal straight length of tube	Dimensions (HxLxI in mm)
120V Moteur 1100W	DC115-AM1	Ø12 - Ø115 0.5" - 4.5"	11 kg	28 mm 1.102"	219x314x462
	DC221-AM1	Ø50 - Ø220 2" - 8.5"	21 kg	39 mm 1.535"	327x425x540
230 V Moteur 1100W	DC 115-AM2	Ø12 - Ø115 0.5" - 4.5"	11 kg	28 mm 1.102"	219x314x462
	DC221- AM2	Ø50 - Ø220 2" - 8.5"	21 kg	39 mm 1.535"	327x425x540



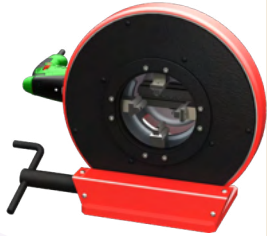
DC115-BM - 221-BM

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Stainless steel concentric jaws

DC115 : 4 Stainless steel concentric jaws

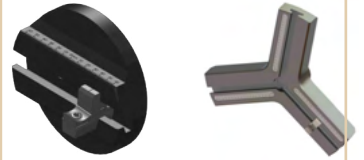
DC221 : 6 Stainless steel concentric jaws



Multi-tools

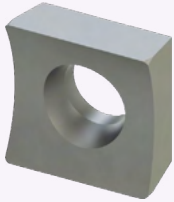
Possibility to use two (DC115) or three (DC221) tools simultaneously

Sliding adjustment of tool holder offers easy diameter change and optimal tip wearing



High quality blades

HSS TIALN blade
Reversible,
two cutting edges



30° and 45° outside bevel

possible with optional tool holder

Delivered in a wooden box



Accurate manual advance

0.1 mm steps

Bench mounting option



1100 W motor

Mains motor 1100W with large speed range (2 gears)
Screw and wheel drive to optimize the speed range and eliminate vibrations

Facing range

DC115 BM	ø12 - ø115 mm 0.5" - 4.5"
DC221 BM	ø50 - ø220 mm 2 - 8.5"



DC115-BM - 221-BM

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INNOVATIVE ORBITAL SOLUTIONS

Technical characteristics:

Thickness < 3 mm (0,12") according to material

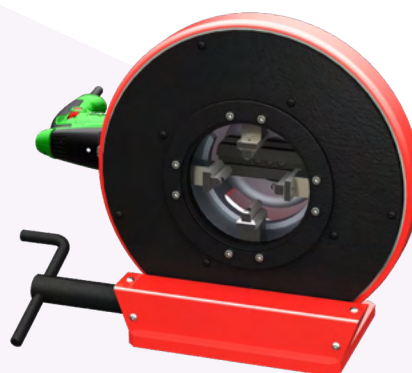
Burr-free tube squaring and edge breaking machine used after a band saw cut or on electro-polished tubes. Ideal tool to face a band saw cut before automatic welding

- Accurate manual advance: 4/1000" (0,1 mm) step graduation
- Sliding adjustment of tool holder offers easy diameter change and optimal tip wearing
- 30° and 45° outside bevel possible with optional tool holder
- Squaring and beveling in one operation
- Possibility to use two (DC115) or three (DC221) tools simultaneously
- Delivered in high quality protection case

All motors are supplied in their own individual cases, including the necessary tools



Wide range of use with stainless steel concentric clamping for all diameters



	Product Code	Facing machine for the following diameters (in mm)	Net weight	Minimal straight length of tube	Dimensions (HxLxI in mm)
120V Moteur 1100 W	DC115-BM1	Ø12 - Ø115 0.5" - 4.5"	37 kg	58 mm 2.283"	219x314x462
	DC221-BM1	Ø50 - Ø220 2" - 8.5"	55 kg	62 mm 2.440"	327x425x540
230 V Moteur 1100 W	DC 115-BM2	Ø12 - Ø115 0.5" - 4.5"	37 kg	58 mm 2.283"	219x314x462
	DC221- BM2	Ø50 - Ø220 2" - 8.5"	55 kg	62 mm 2.440"	327x425x540



Join **experience**

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Orbital Facing - Accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

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 facing the 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.



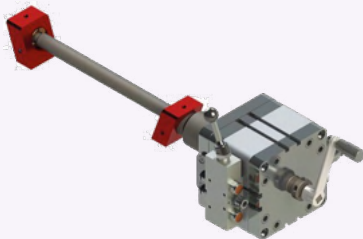
Product Code	Description	Net Weight	Dimensions (in cm)
CCBSB-X1	Height-adjustable tube support bench	57 kg	184 x 95 x 51
<u>Height-adjustable support bench, 1.5 m :</u>			
- stainless steel rollers		- min tube ø: 5 mm	
- height adjustment handle		- max tube ø: 321 mm	
- maximum load 350 kg uniformly distributed			

DC25-MA	DC65-MA	DC25-MS	DC65-MS	DC115-AM	DC221-AM	✓DC115-BM	✓DC221-BM
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Product Code	Description	Net weight	Dimensions (in cm)
CCBSB-X2	Additional support bench	38 kg	150 x 95 x 51
<u>Additional tube support bench, 1.5 m :</u>			
- stainless steel rollers		- min tube ø: 5 mm	
- maximum load 350 kg uniformly distributed		- max tube ø: 321 mm	

DC25-MA	DC65-MA	DC25-MS	DC65-MS	DC115-AM	DC221-AM	✓DC115-BM	✓DC221-BM
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Product Code	Description	Net weight	Dimensions (in cm)
CCSA21	Pneumatic clamping	8.2 kg	560 x 200 x 190
<u>Pneumatic clamping for DC115-BM / DC221-BM</u>			

DC25-MA	DC65-MA	DC25-MS	DC65-MS	DC115AM	DC221AM	✓DC115BM	✓DC221BM
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Orbital Facing - Accessories

AXXAIR
 INNOVATIVE ORBITAL SOLUTIONS


Clamping jaws

Clamping jaws for orbital facing machines:

A set of jaws is necessary for each outside diameter of tube to be machined

For machine	Product Code	Diameter of the tube	
		mm	inch
DC25	DCM25-XX	3 mm à 25.4 mm	1/8" - 1"
DC65	DCM65-XX	3 mm à 63.5 mm	1/8" - 2.5"
DC115	DCM115-XXX	12 mm à 115 mm	1/2" - 4.5"
DC221	DCM221-XXX	50 mm à 220 mm	2" - 8.5"

✓ DC25-MA

✓ DC65-MA

✓ DC25-MS

✓ DC65-MS

✓ DC115-AM

✓ DC221-AM

DC115-BM

DC221-BM



Jaws for micro-fitting

Stainless steel micro-fitting jaws for DC25 ONLY

- Straight length : 4,3 mm mini

Product Code	Diameter of the tube	
	mm	inch
DCM25-MF03.18	3,18 mm	1/8 "
DCM25-MF06.00	6 mm	0.236"
DCM25-MF06.35	6.35mm	1/4 "
DCM25-MF08.00	8.00 mm	0.315 "
DCM25-MF10.00	10.00 mm	0.394 "
DCM25-MF12.00	12.00 mm	0.472 "
DCM25-MF12.70	12.7 mm	1/2 "

✓ DC25-MA

DC65-MS

✓ DC25-MA

DC65-MS

DC115-AM

DC221-AM

DC115-BM

DC221-BM



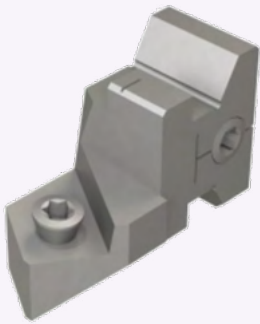
Orbital Facing - Accessories

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Product Code	Description	Net weight	Dimensions (in mm)
DCM6525	Spacer	0.022 kg	Ø 76

Spacer for fitting DC25 jaws on a DC65

DC25-MA	✓ DC65-MA	DC25-MS	✓ DC65-MS	DC115-AM	DC221-AM	DC115-BM	DC221-BM
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Product Code	Description	Net weight	Dimensions (in mm)
DC65-P300	Tool holder for beveling	0.028 kg	22 x 13 x 28.5

Tool holder for breaking the corner at 30° :

- Tool holders are supplied without blades
- Corner breaking is possible on the whole machine's range
- Possibility to face the tube and break the corner at the same time on the whole machines' ranges*

***exception for the DC65:**

- If facing and breaking corners at the same time: reduced range : 20 - 53 mm

DC25-MA	✓ DC65-MA	DC25-MS	✓ DC65-MS	✓ DC115-AM	✓ DC221-AM	✓ DC115-BM	✓ DC221-BM
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Product Code	Description	Net weight	Dimensions (in mm)
DC65-P450	Tool holder for beveling	0.026 kg	22 x 12.5 x 28.5

Tool holder for breaking the corner at 45° :

- Tool holders are supplied without blades
- Corner breaking is possible on the whole machine's range
- Possibility to face the tube and break the corner at the same time on the whole machines' ranges*

***exception for the DC65:**

- If facing and breaking corners at the same time: reduced range : 20 - 53 mm

DC25-MA	✓ DC65-MA	DC25-MS	✓ DC65-MS	✓ DC115-AM	✓ DC221-AM	✓ DC115-BM	✓ DC221-BM
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Orbital Facing - Consumables

AXXAIR
 INNOVATIVE ORBITAL SOLUTIONS

In order to fit the different types of tubes, applications and your organization's requirements, AXXAIR offers two inserts for orbital facing. Each insert has been developed for a specific application.

All of our inserts are double sided with two cutting edges and get a TiALN treatment, which improve the insert steadiness. This treatment ensures excellent heat resistance.

PERFORMANCE

 HIGH
 PERFORMANCE

PERFORMANCE inserts for orbital facing

- Double sided inserts with two cutting edges, made of HSS-E, TiALN treatment
- Cutting angle adapted to high speed use or for hard materials

Product Code	Description	Net weight	Dimensions
DC-OUT1	Box of 10 inserts	0.028 kg	12.5 x 40 x 100 mm
DC-UOUT1	Single unit insert	0.002 kg	4 x 9.5 x 9.5 mm

✓ DC25-MA

✓ DC65-MA

✓ DC25-MS

✓ DC65-MS

✓ DC115-AM

✓ DC221-AM

✓ DC115-BM

✓ DC221-BM

HIGH PERFORMANCE inserts for orbital facing

- Double sided inserts with two cutting edges, made of HSS, TiALN treatment
- Special design with acute cutting angle for high-purity applications without burr

Product Code	Description	Net weight	Dimensions
DC-OUT3	Box of 10 inserts	0.03 kg	12.5 x 40 x 100 mm
DC-UOUT3	Single unit insert	0.003 kg	4.5 x 9.5 x 9.5 mm

✓ DC25-MA

✓ DC65-MA

✓ DC25-MS

✓ DC65-MS

✓ DC115-AM

✓ DC221-AM

✓ DC115-BM

✓ DC221-BM

Orbital welding (Prefabrication)

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INNOVATIVE ORBITAL SOLUTIONS

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

Our welding range 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

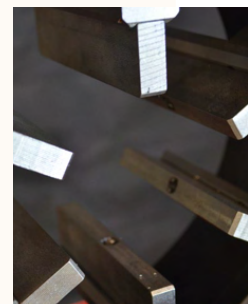
Welding with a water or air cooled torch with or without filler metal. It allows production of medium to large series of welding sub-assemblies. The diameter range of each machine is very wide and does not require specific jaws.

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!



Join **experience**


www.axxair.com



SX122 - 172 - 222 - 322

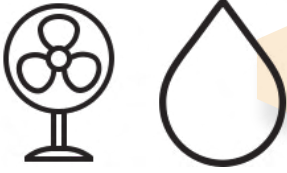


No tube deformation
Concentric clamping



Basic and extra stainless steel jaws: no pollution of stainless steel tubes

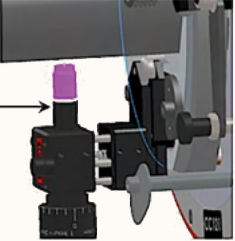
Air Cooled or Water Cooled




Rotating


Connect to the SAXX range welding power sources

Accurate positioning
Axial adjustment of the electrode position: facilitates location of the parts to be welded
Adjustment of the tube's axial position +/- 5 mm




Constant distance: electrode-tube

Mechanical tracking of tube ovalization from the outside.




Micrometric adjustment of the height of the arc

Accuracy of adjustment without specific tooling



Easy handling and transportation



Compatible with the SAXX power sources



Opening capacity	
122	ø12 - ø119 mm 0.25" - 4.5"
172	ø16 - ø173 mm 0.625" - 6.625"
222	55 - ø228 mm 2.375" - 8.625"
322	ø141 mm - ø328 mm 5.563" - 12.750"



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.

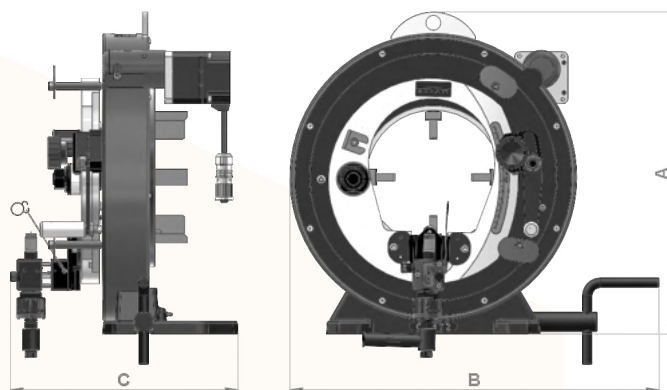
Compatible with AXXAIR's SAXX orbital power sources that have an automatic parameter calculation mode.

The power source 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 catalogue for thick walled tubes.

Model	100% Duty cycle
SX-xx2-E (WATER)	200 A
SX-xx2-A (AIR)	100 A



	Product Code	Machine's jaw opening capacity in mm		Net weight	Dimensions (AxBxC in mm)
		With basic jaws	With extra jaws (included)		
Cooling AIR	SX122-A	Ø29 - Ø119	Ø12 - Ø99	45 kg	446 x 541 x 350
	SX172-A	Ø74 - Ø173	Ø16 - Ø116	52 kg	493 x 566 x 350
	SX222-A	Ø128 - Ø228	Ø55 - Ø155	60 kg	548 x 594 x 350
	SX322-A	Ø230 - Ø328	Ø141 - Ø239	73 kg	649 x 644 x 350
Cooling WATER	SX122-E	Ø29 - Ø119	Ø12 - Ø99	45 kg	446 x 541 x 350
	SX172-E	Ø74 - Ø173	Ø16 - Ø116	52 kg	493 x 566 x 350
	SX222-E	Ø128 - Ø228	Ø55 - Ø155	60 kg	548 x 594 x 350
	SX322-E	Ø230 - Ø328	Ø141 - Ø239	73 kg	649 x 644 x 350



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.

The great advantages of these products are:

- lightness
- flexible handling
- ease of use



Product Code	Description	Net weight	Dimensions (in cm)
CCPS21	Support legs	10 kg	103 x 32 x 11

Support legs for orbital welding machine:

- quick assembly and dismantling
- height adjustment with screws

✓ SX122-A	✓ SX172-A	✓ SX222-A	✓ SX322-A	✓ SX122-E	✓ SX172-E	✓ SX222-E	✓ SX322-E
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Product Code	Description	Net weight	Dimensions (in cm)
CCSER1	Stand	10 kg	60 x 26 x 10

Simple stand for supporting tubes with height adjustment:

- quick assembly and dismantling
- height adjustment

✓ SX122-A	✓ SX172-A	✓ SX222-A	✓ SX322-A	✓ SX122-E	✓ SX172-E	✓ SX222-E	✓ SX322-E
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Product Code	Description	Net weight	Dimensions (in cm)
CCSER2	Stand (with chrome steel bearings)	11 kg	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-E	✓ SX222-E	✓ SX322-E
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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.



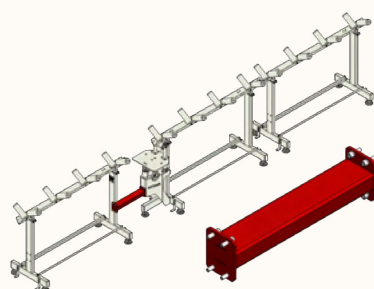
Product Code	Description	Net weight	Dimensions (in cm)
CCBSB-X1	Height adjustable tube support bench	57 kg	184 x 95 x 51
<u>Height-adjustable support bench, 1.5m:</u>			
- stainless steel rollers		- maximum load 350 kg	
- height adjustment handle		- min tube ø: 5 mm	
		- max tube ø: 321 mm	

✓ SX122-A	✓ SX172-A	✓ SX222-A	✓ SX322-A	✓ SX122-E	✓ SX172-E	✓ SX222-E	✓ SX322-E
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Product Code	Description	Net weight	Dimensions (in cm)
CCBSB-X2	Additional support bench	38 kg	150 x 95 x 51
<u>Additional tube support bench:</u>			
- stainless steel rollers		- min tube ø: 5 mm	
- 1.5 m long		- max tube ø: 321 mm	
- maximum load 350 kg			

✓ SX122-A	✓ SX172-A	✓ SX222-A	✓ SX322-A	✓ SX122-E	✓ SX172-E	✓ SX222-E	✓ SX322-E
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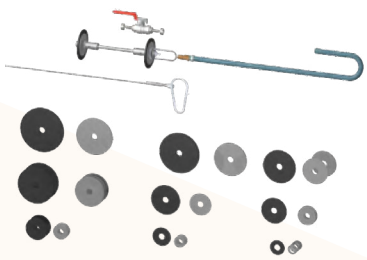


Product Code	Description	Net weight	Dimensions (in mm)
CCBSB-B005	Connecting bar	3 kg	100 x 80 x 402
<u>Connecting bar for CCBSB-X1 and CCBSB-X2:</u>			
- Allows the height-adjustable table to be connected to a bench placed in front of the machine			

✓ SX122-A	✓ SX172-A	✓ SX222-A	✓ SX322-A	✓ SX122-E	✓ SX172-E	✓ SX222-E	✓ SX322-E
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Orbital welding (Prefab) - Accessories



Product Code	Description	Net weight	Packaging (in cm)
SKIF-01	Gas protection KIT	4.5 kg	35 x 30 x 9.5

Gas membrane protection KIT for tubes Ø 40 to 120 mm
- consists of: 9 sets of membranes with washers, 1 gas pipe 6 m, 1 metal cable, 1 ¼ turn gas valve, 1 carabiner

Inerting the tubes during welding allows more gas savings as we only inert the area to be welded.

✓ SX122-A	✓ SX172-A	✓ SX222-A	✓ SX322-A	✓ SX122-E	✓ SX172-E	✓ SX222-E	✓ SX322-E
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Product Code	Description	Net weight	Packaging (in cm)
SKIB-01	Gas protection KIT	1.7 kg	35 x 30 x 9.5

Gas plug protection KIT for tubes Ø 6 to 41 mm
- Consists of: 10 sets of perforated plugs, 1 gas inlet connector, 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	✓ SX222-E	✓ SX322-E
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Product Code	Description	Net weight	Dimensions (in mm)
SADFP-02	Wire guide	0.05 kg	51 x 90 x 65

Wire guide for SX

✓ SX122-A	✓ SX172-A	✓ SX222-A	✓ SX322-A	✓ SX122-E	✓ SX172-E	✓ SX222-E	✓ SX322-E
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Product Code	Description	Net weight	Dimensions (in cm)
SADF2X	Wire dispenser	12 kg	59.7 x 38.4 x 24

Wire Dispenser for SAXX, cable sheath 5 m max:
- Supplied with SAXX power supply-connection cable and teflon sheath to guide the wire
- Drive pressure adjusted by adjustable spring, with handle.

✓ SX122-A	✓ SX172-A	✓ SX222-A	✓ SX322-A	✓ SX122-E	✓ SX172-E	✓ SX222-E	✓ SX322-E
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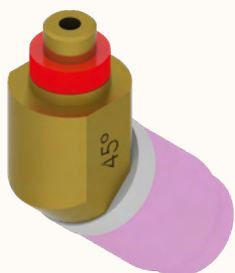
Orbital welding (Prefab) - Accessories



Product Code	Description	Net weight	Plastic box (in cm)
SKTDI-30	Inclined torch	0.3 kg	12 x 17.5 x 4

30° inclined torch kit

✓ SX122-A	✓ SX172-A	✓ SX222-A	✓ SX322-A	✓ SX122-E	✓ SX172-E	✓ SX222-E	✓ SX322-E
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Product Code	Description	Net weight	Plastic box (in cm)
SKTDI-45	Inclined torch	0.3 kg	12 x 17.5 x 4

45° inclined torch kit

✓ SX122-A	✓ SX172-A	✓ SX222-A	✓ SX322-A	✓ SX122-E	✓ SX172-E	✓ SX222-E	✓ SX322-E
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AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Accessories (electric clamping)

NEW



You realize **important series** in your company and want to be more effective during your projects? Our electric clamping is the ideal answer for the preparation and / or welding of your tubes.

The electric clamping makes it possible to carry out a **repetitive and constant force tightening** on tubes with identical diameters and thicknesses. The **clamping force is adjustable**, it prevents the tubes from being deformed or marked.

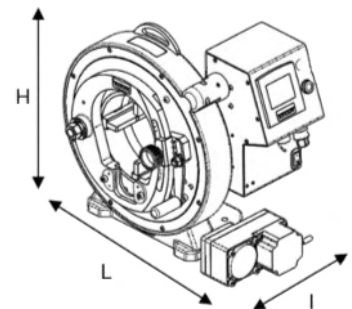
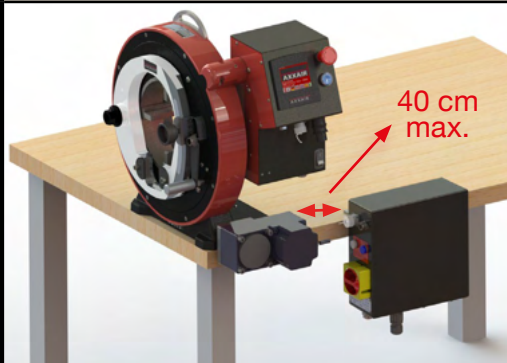
Technical specifications:

- 24Vdc brushless motor, motor torque: 34N.m
- Tightening force on the tube: 850 kg maximum, adjustable from 15 to 100%
- Clamping speed: 86 mm / min (diameter)
- The electric clamping is sold with the body frame and the automatic rotation

Fixation on an AXXAIR support bench



Fixation on an other support (example: workbench)



46

Product code	Body frame, automatic rotation and electric clamping Machine's jaw opening capacity in mm		Net weight	Dimensions (HxLxI in mm)
	With basic jaws	With extra jaws (included)		
122-AU	Ø29 - Ø119	Ø5 - Ø99	51 kg	470 x 498 x 359
172-AU	Ø74 - Ø173	Ø16 - Ø116	58 kg	520 x 530 x 359
222-AU	Ø128 - Ø228	Ø55 - Ø155	66 kg	575 x 575 x 359
322-AU	Ø230 - Ø328	Ø141 - Ø239	80 kg	675 x 662 x 359

Caution: Remember to order one or more motors (cutting, beveling or welding torch) and the consumables needed with the sets listed above.

Join **experience**

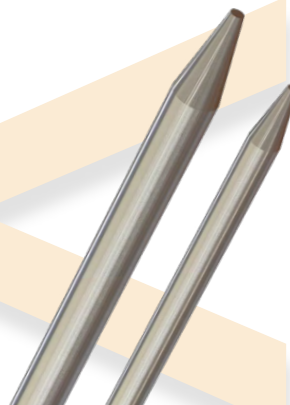
www.axxair.com



Orbital welding (Prefab) - Consumables

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

This increases the life of the electrodes.



Product Code	Description	Net weight	Plastic box (cm)
SCE16-50	Electrodes	0.02 kg	5.5 x 4.5 x 1

Electrode diameter **1.6 mm**, length 50mm

- Box of 10 electrodes

✓ SX122-A	✓ SX172-A	✓ SX222-A	✓ SX322-A	✓ SX122-E	✓ SX172-E	✓ SX222-E	✓ SX322-E
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Product Code	Description	Net weight	Plastic box (cm)
SCE24-50	Electrodes	0.05 kg	5.5 x 4.5 x 1

Electrode diameter **2.4 mm**, length 50mm

- Box of 10 electrodes

✓ SX122-A	✓ SX172-A	✓ SX222-A	✓ SX322-A	✓ SX122-E	✓ SX172-E	✓ SX222-E	✓ SX322-E
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Product Code	Description	Net weight	Plastic box (cm)
SKTD-xx	Replacement torch	0.3 kg	12 x 17.5 x 4

Replacement kit for straight torch **Ø 1.6 mm or Ø 2.4**

- consists of: 5 nozzles, 2 plugs 9/20, 2 long electrode clamps, 10 electrodes (Ø 1.6 mm or Ø 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	✓ SX172-E	✓ SX222-E	✓ SX322-E
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1 machine - 3 applications



The AXXAIR Group was the first to offer a triple and exclusive solution, from preparation to orbital welding:

global process

For more than 20 years, a single machine frame (122, 172, 222 and 322) has enabled three operations to be carried out:

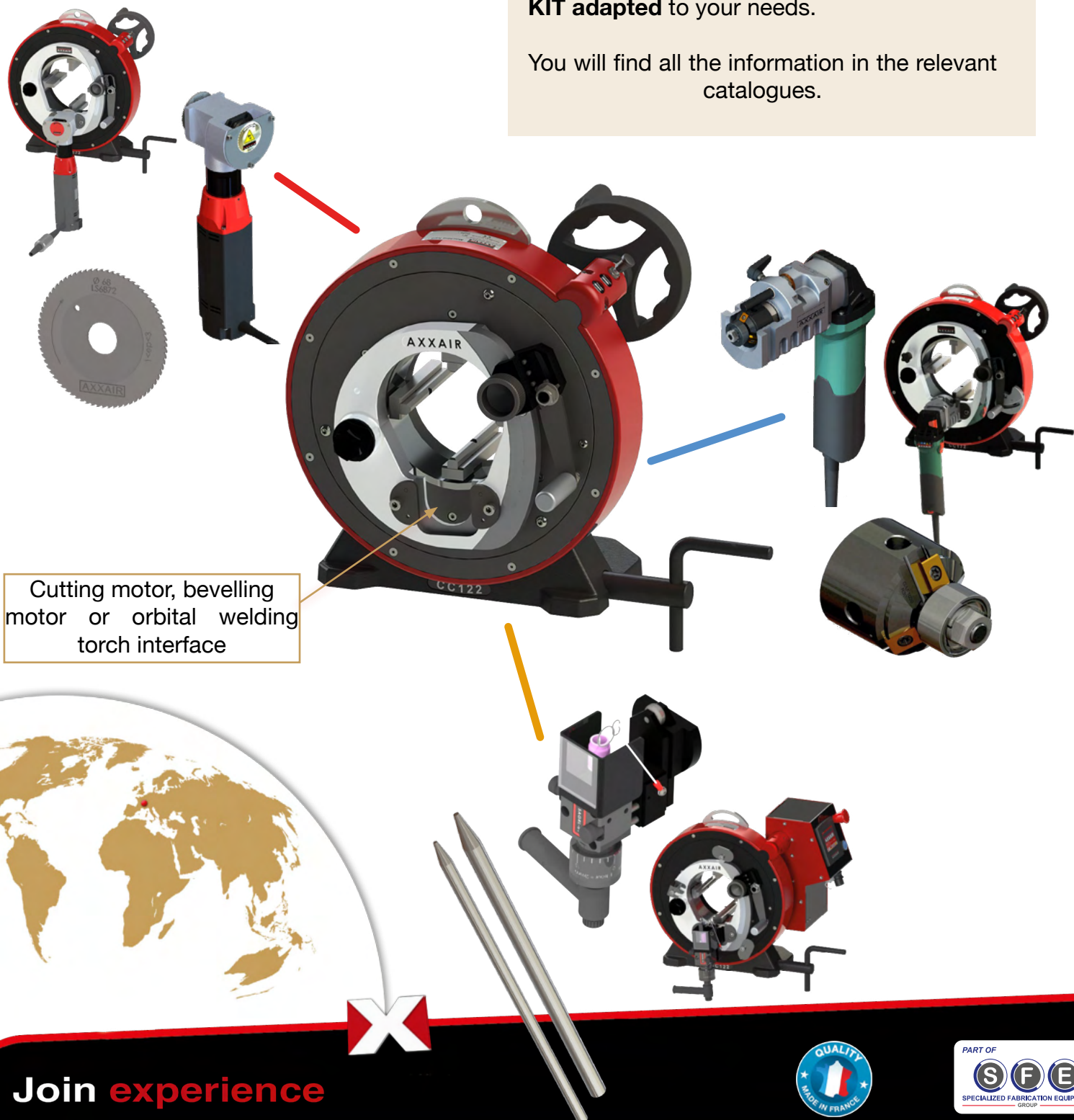
cutting, bevelling and orbital welding

BUT CAUTION,

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

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

Orbital Welding (Microfit closed heads)

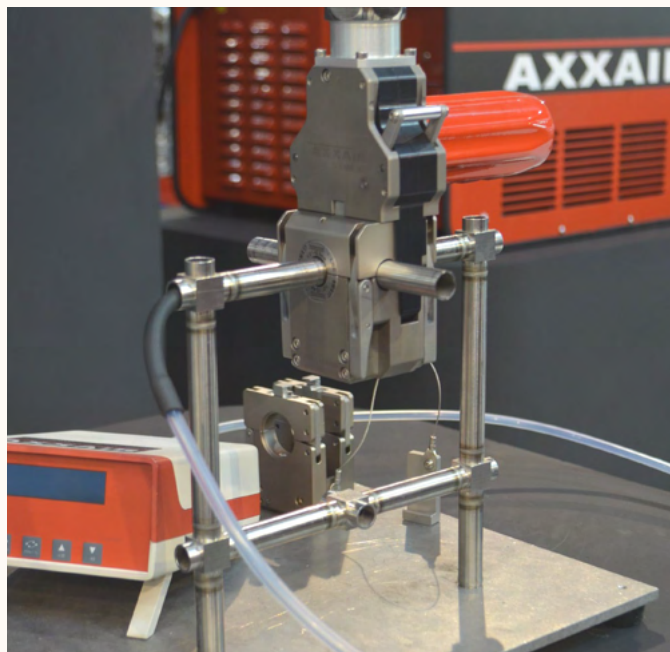
AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

The Micro-fitting Series has been designed to weld small diameters tubing and fittings mainly in the semiconductor industry.

This head is a cassette system which allows first to position the parts to be welded in the cassette that is a clamping feature. Once centered and positioned correctly, the welding head is slid in the cassette to correctly position the electrode to the surface to be welded.

The cassette combinations are multiple depending on the type of parts to be welded, tube-tube, tube-union elbow, union elbow-union elbow for example.



FLEXIBILITY, PRODUCTIVITY

Productivity remains our primary concern. AXXAIR's cassettes have been designed to fit various configurations of different parts to be welded and the weld heads provides high duty cycles.

QUALITY AND REPEATABILITY

The SMMF range allows optimum tube positioning while controlling the tightening forces so as not to distort or mark your tubes.

PORTABILITY

In order to allow you to weld in restrictive conditions and locations, the size and weight of the machines have been significantly reduced.

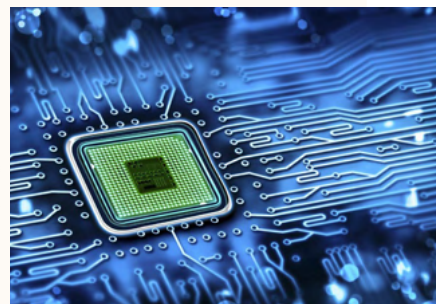
Our welding cable, housed in an ultra flexible and very resistant protective sheath, also facilitates manipulation of the welding head.



The automatic welding cycle can then be started directly through the start button on the motor handle of the head.

The SAXX-200 air cooled is the perfect combination with the SXMF heads to control all steps of the welding cycle. You can refer on all SAXX power sources advantages in the section SAXX power sources.

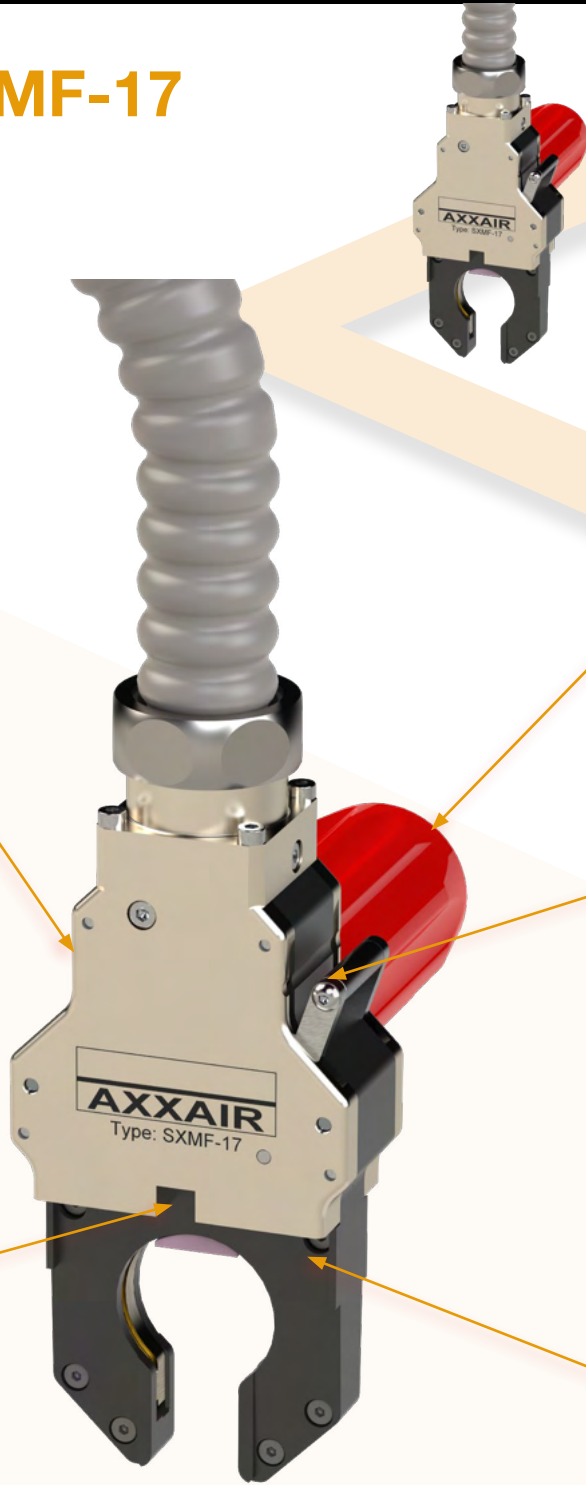
The SAXX offers functions such as dual digital gas control, auto-calculation of the parameters, compatible competitor head control, USB memory stick, welding data acquisition.



Do not hesitate to contact us for your demands as the applications can be various and the welding configurations multiple.

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

SXMF-17



AIR cooled

The aluminium hosing on each side of the head protect but also help to evacuate more heat

Compact and light

Weight: 4.5 kg with cable

Thermal shield

We shield the electrode surrounding on the rotor as it is very exposed

Compatible with SAXX power sources



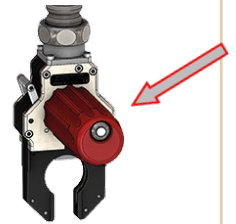
Transport

These heads are delivered in their work site case



Cycle start button

Starting the welding cycle or TEST mode



Cassette locking lever

Allows a stable hold of the cassette when it is placed on the head. Compatible Swagelock cassettes, please contact us

Body with inclined contact surfaces

Allows easy removal of the cassette even when it is hot

Welding range

SXMF-17	ø3 mm - ø17.2 mm 1/8" - 5/8"
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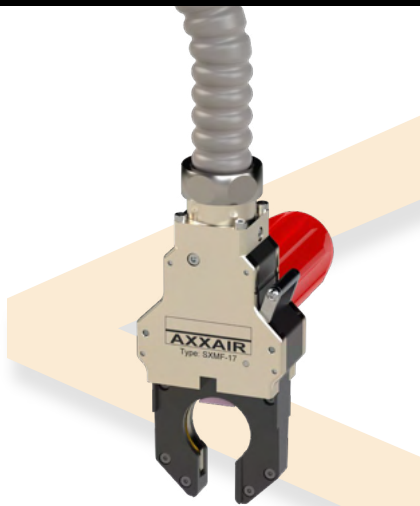
SXMF-17

Technical characteristics:

Maximum welding current for a duty cycle of 35%	70 A
Maximum welding current for a duty cycle of 50%	55 A
Maximum welding current	80 A

- Cable length: 16 feet / 5 meters
- Operating temperature: 32°F to 104°F (0°C to 40 °C)

The SXMF-17 is a cassette type orbital welding head. It is controlled by AXXAIR's power sources. The air cooled SAXX-200 orbital power supply is recommended.



SXMF-17



SXMF-17 with mounted cassette



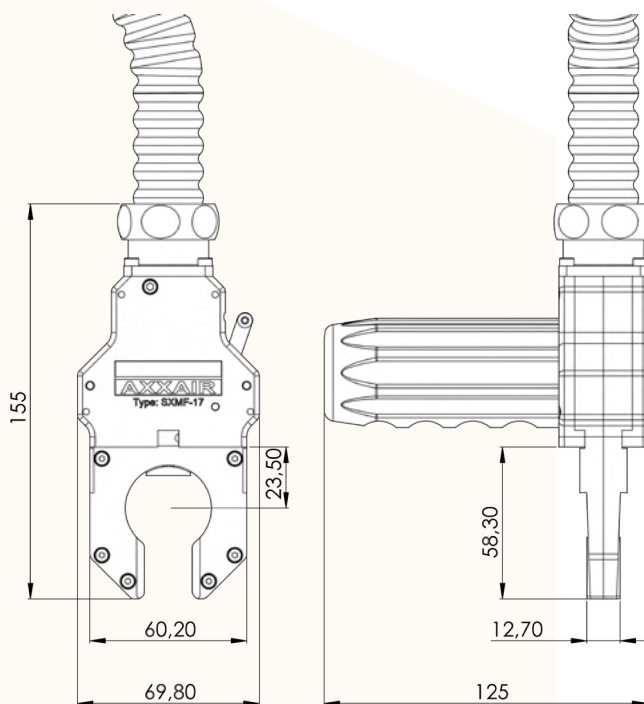
The SXMF-17 machine can weld different tube configurations (Tube/Tube – Tube/elbow union– Fitting/Fitting - ...), 3 cassettes and various accessories are available.

Please refer to the following pages in order to find the products' codes and sideplates' configurations.

The head SXMF-17 is delivered

with:

- A transport case
- Tool to set up the tungsten
- Tool to adjust the tungsten
- Tool to set up the collets
- User manual



Length of the cable	Product code	Description	Tube welding machine for:	Diameter electrode	Weight without cable	Dimensions
5 m	SXMF-17-05	Microfit closed welding head	1/8" to 5/8" mm ø 3 - ø17.2 mm	0.040» Ø1.0 mm	1.4 lbs. (0.6 kg)	See above
NEW 10 m	SXMF-17-10					
NEW 15 m	SXMF-17-15					



AXXAIR Sideplates for SXMF-17



The cassettes offer multiple weld configurations and can be combined accordingly. Thus you will have complete cassettes such as our tube-tube cassettes but for the other configurations of the cassettes will have to choose as a kit of left side plate and right side plate to the central body.

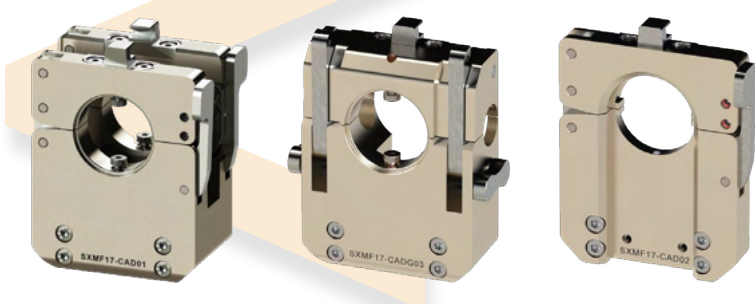
They have a special treatment that offer a very good conductivity and hard surface finish for durability.

AXXAIR has 3 types of sideplates :

- Model «Standard» is used for tube clamping
- Model called «Large» for Fitting clamping
- Model called «Thin» to clamp tubes below 12.7 mm straight length .

You always need the central body in combination of one of the side plates depending on what you are clamping. The combinations are multiple and the central body is mandatory in all combinations. You have to pay attention to have the clamping levers on the same side (always use one left and one right except for fitting where it does not matter).

Attention: sideplates will have different collets.



Adaptable

In order to make your Swagelock cassettes compatible with the SXMF-17, AXXAIR has designed an adapter kit for the Swagelok cassettes.

Flexible

Combine the sideplates with the central body depending on your applications.

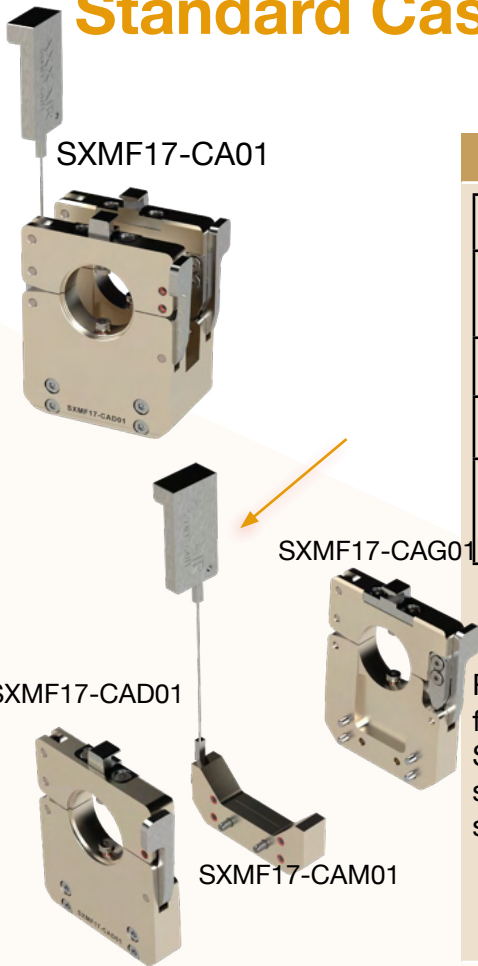
Precise

Each cassette model of AXXAIR has its own references of jaws corresponding to the specific characteristics of the parts to be clamped.

All of AXXAIR's clamping collets made of stainless steel.



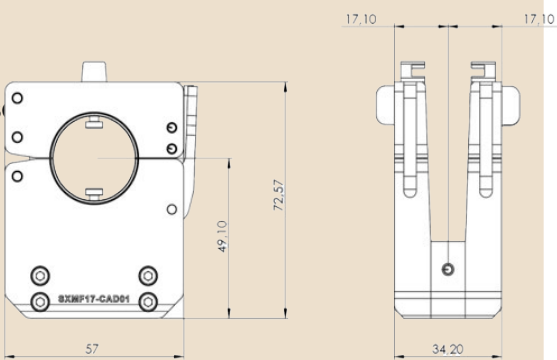
Standard Cassettes & Sideplates



Standard cassette SXMF

Description	Product code
Standard Cassette SXMF Tube-Tube (complet kit)	SXMF17-CA01
Standard right sideplate	SXMF17-CAD01
Standard left sideplate	SXMF17-CAG01
Standard central body SXMF (common to all siteplates)	SXMF17-CAM01

Recommended standard cassette s for your microfit welds. Subsequently, the thin or wide sideplates can be ordered for specific welds.



Minimal straight length of the tube: 0.689» (17.50 mm)

Collets for standard siteplates

Product code	Ø in inches	Product code	Ø in mm
SMX17-03.175	1/8	SMX17-03	3.00
SMX17-04.763	3/16	SMX17-04	4.00
SMX17-06.35	1/4	SMX17-05	5.00
SMX17-07.938	5/16	SMX17-06	6.00
SMX17-09.525	3/8	SMX17-08	8.00
SMX17-12.70	1/2	SMX17-09	9.00
SMX17-14.287	9/16	SMX17-10	10.00
SMX17-15.875	5/8	SMX17-11	11.00
These jaws (sold by 2) are compatible only with the standard siteplates		SMX17-12	12.00
		SMX17-14	14.00
		SMX17-15	15.00
		SMX17-16	16.00
		SMX17-17.2	17.20

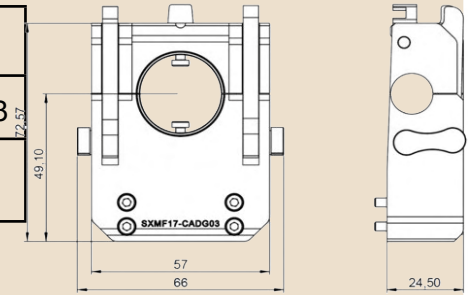


Wide Sideplate (right/left)



Wide sideplate (right and left) for SXMF

Description	Product code
Wide sideplate	SXMF17-CADG03
Standard central body SXMF (common to all sideplates)	SXMF17-CAM01



Wide to order to clamp the following fittings.



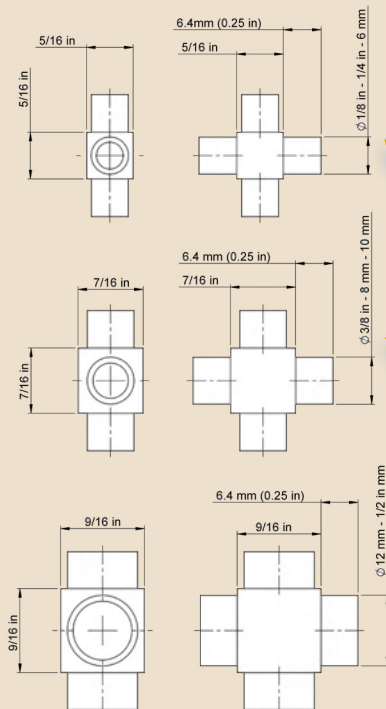
Minimal straight length of the welding piece: 1.189" (30.20 mm)

Tube collets for wide sideplate

Product code	Ø in inches	Product code	Ø in mm
SMX17-LT03.175	1/8	SMX17-LT03	3.00
SMX17-LT06.35	1/4	SMX17-LT06	6.00
SMX17-LT09.525	3/8	SMX17-LT08	8.00
SMX17-LT12.70	1/2	SMX17-LT10	10.00
SMX17-LT15.875	5/8	SMX17-LT12	12.00

These jaws (sold by 2) are compatible only with the wide sideplates

Fitting collets for wide sideplate



Product code	Fitting body size	Fitting type
SMX17-LRA	1/8 in, 1/4 in 6 mm	Body Union Elbow or
SMX17-LRB	3/8 in 8 mm 10 mm	Body Union Tee or
SMX17-LRC	1/2 in 12 mm	Body Union Cross

Thin sideplates



Left thin sideplate

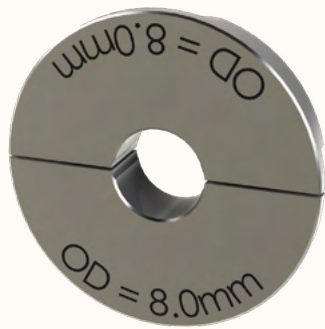


Right thin sideplate

Thin siteplates	
Description	Product code
Right thin sideplate	SXMF17-CAD02
Left thin sideplate	SXMF17-CAG02
Standard central body SXMF (common to all sideplates)	SXMF17-CAM01

It is possible to order the entire cassette assembly or only the right or left sideplates with the center body for a customized configuration.

Collets for thin sideplates



Minimal straight length of the tube: 0.5» (12.70 mm)

Product code	Ø in inches	Product code	Ø in mm
SMX17-F03.175	1/8	SMX17-F03	3.00
SMX17-F06.35	1/4	SMX17-F06	6.00
SMX17-F09.525	3/8	SMX17-F08	8.00
SMX17-F12.70	1/2	SMX17-F12	12.00

These jaws (sold by 2) are only compatible with the thin sideplates



Orbital welding (Microfit head) - Accessories



Cable extension

Product code	Length	Net weight
SAFS-05MAX	5m	7 kg
SAFS-10MAX	10m	14 kg

The SXMF-17 machines is delivered with a cable of 5 metres

To increase the operating distance between the welding head and the SAXX power source, we offer cable extensions.

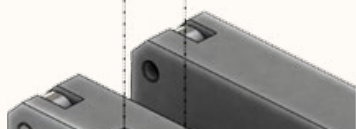
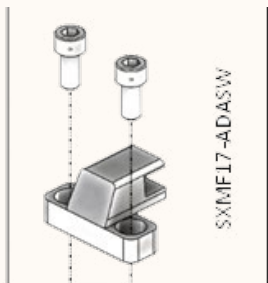
We strongly advise to be limited to one extension per head.

Screw kit for Swagelok

Description	Product code
Adaption kit for Swagelok cassettes	SXMF17-ADASW

This kit also includes the screw tightening key (BTR 3/32 ").

Tightening torque of fixing screws: 0.5 Nm max.



Orbital welding (Microfit head) - Consumables

Electrodes for SXMF17

Product code	Outside diameter of the tube to be welded		Electrode length
	inches	mm	
SCE10-20.0	1/8, 3/16, 1/4	3, 6	20.0mm
SCE10-17.5	5/16, 3/8, 1/2	8, 10, 12	17.5 mm
SCE10-15.0	5/8, 9/16	14, 15, 16, 17.2	15.0mm

-A range of electrodes is available to meet the constraints of the SXMF-17 head:
 - diameter of 0.040» (1,02mm) with the length adapted to the tube diameter.
 - sold per pack of 10



Orbital welding (Closed heads)

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Our new range of closed SATFX welding heads enables you to achieve high quality welds in a minimal space.

Orbital welding with a closed head is done by a **simple fusion without additional wire feeding**. Consequently, these heads are recommended for welding **thin tubes of many types of stainless steel** with thicknesses of less than 3 mm.

SATFX heads are also indispensable for welding other nickel or titanium based alloys which are very sensitive to oxidation and are used when an installation with an impeccable resistance to chemicals or heat is required.



The new SATFX heads have been designed to meet the needs of our customers who are often confronted with the most demanding welding specifications.

The protective atmosphere provided by the closed heads permits welding in an inerting chamber. This results in **welds with very minimal discoloration and perfectly clean weld beads**.

This type of equipment is used in **industrial sectors sensitive to hygienic conditions** such as aeronautics, semi-conductors, pharmaceuticals as well as food and beverage processing.

The narrow width of the head makes it ideal for construction sites where only a small amount of straight sections are in demand. However, these welding heads are also used in workshops and clean rooms.

The SATFX range, coupled with our SAXX welding power supplies and their continuous monitoring of welding parameters, guarantee **repeatable welds of high quality**. This type of weld passes the most strenuous tests, such as X-ray inspection.

*contact us for more information

FLEXIBILITY, PRODUCTIVITY



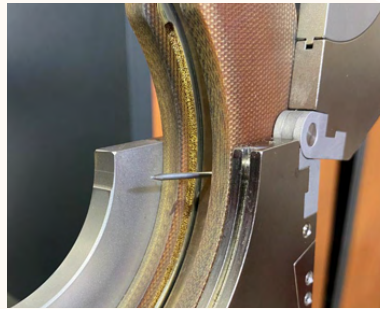
Productivity remains our top priority. The liquid cooling circuit has been optimized to allow for **greater heat evacuation** and thus:

- increases the service life of the SATFX
- guarantees a substantial welding output. The operating current at 100% is **100 A**.



QUALITY AND REPEATABILITY

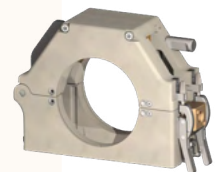
Direct wire feeding and a homogeneous diffusion of the inert gas, high quality materials and special component processing, a grease-free operation, easy maintenance and cleaning plus numerous configurations make the SATFX range the ideal response to the requirements of high-tech industries.



They allow for intense, versatile and long-lasting usage on your construction sites and in your workshops.

INNOVATION : GLOBAL PROCESS 2 in 1

The SATFX closed welding heads can easily be transformed into a cassette machine. The cassette allows for easy placement on the parts to be welded in confined areas. Welding without tacking is possible under certain conditions.*



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!



NEW

SATFX-52 - 76 - 115



High protection against arcing outside the electrode

Power drive system with encoder: allows starting in all angular positions of the electrode

Water cooling of the electrode holder and aluminium flanges.

Standard stainless steel jaws for quick assembly without tools.



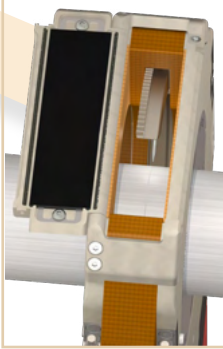
Wide aluminium jaws for optimal machine stability when welding accessories.

Illuminated logo on each side

Operating **without grease:** compatible with clean room standards.

Length of the cable: **8 meters**

Large pivoting window with welding glass to check the electrode alignment after tightening the two frames.



The welding glass (shade10) allows to observe the weld and protect the operator's eyes.

Closing system with adjustable force without tools. Allows precise adjustment of the force of the jaws on the tube to be welded and helps opening after welding.

Perfect gas protection in the welding head.

Optimized handling: **Ergonomic design with soft touch compound areas** and overall **weight greatly reduced.**

4 stainless steel remote control buttons.

Global Process : 2 in 1

Cassettes for welding in confined areas.
Easy positioning of the cassette on the parts to be welded before fixing the central body of the head.

These heads are delivered in a water- and dustproof **suitcase** and with a **suspension assembly.**

Welding range	
SATFX-52	∅ 6 - ∅ 52 mm 0.25 - 2 "
SATFX-76	∅ 6- ∅ 77 mm 0.25 - 3 "
SATFX-115	∅ 12 - ∅ 115 mm 0.5 - 4.5 "



NEW

SATFX-52 - 76 - 115



Technical characteristics:

Maximum welding current	150 A
100% duty cycle	100 A

These closed heads are designed for orbital butt TIG welding of tubes, tubes-elbows, tube-ferrules, tubes-T, tubes-fittings and others in a fully inerted closed chamber.

The SATFX heads are driven by the AXXAIR orbital welding power sources of the SAXX range.

Integral water cooling of the heads and new treatment of the aluminium parts offering a better electrical and thermal conductivity. The double cooling of the rotor and the head body is essential to guarantee a **good lifespan of the parts** by minimizing the effects of expansion deformation.

Illuminated logo on each side of the head : it allows to visualize if the power source is turned on or off and if the machine is in a welding cycle or not.



When the power source is powered on and the head connected, the light is on steady. When the machine is welding, the indicator light flashes.



4 stainless steel remote control buttons: Start/stop, gas purging, rotation of the rotor in one direction and rotation in the other direction. Regardless of the starting position during welding, the rotor automatically returns to the open position of the rotor so that the welded parts can be removed easily.

Ergonomic design:

Ergonomic handle with soft touch overmolding that brings the hand closer to the center of gravity of the head, providing unparalleled handling comfort.

Maintenance :

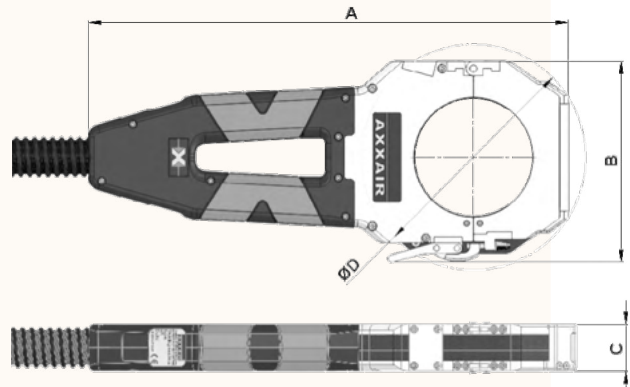
All rotation axes and toggle clamps can easily be changed.



Cleaning: A single hexagonal wrench allows the machine to be disassembled in a few minutes to clean the interior, without having to empty the head's coolant circuit.

Gas diffusion: more direct gas supply through two sintered bronze semi-circular bunds. This allows a trouble-free distribution and flow, even with a high gas flow rate and without blowing out the arc.

Max flow rate: 60l/min



Thickness of 37.6 mm: possibility to weld with the stainless steel jaws standard microfitting fittings or other accessories with a straight part of 19.1 mm.

Product Code	Description	Tube welding machine for the following diameters	Net weight with cable	Dimensions A x B x C in mm	Dimensions D
SATFX-52	Water-cooled closed head with 8m cable for SAXX welding power sources	ø 6 - ø 52 mm	8.6 kg	375 x 142 x 37,6	ø 160 mm
SATFX-76		ø 6 - ø 77 mm	8.9 kg	399 x 166 x 37,6	ø 187 mm
SATFX-115		ø 12 - ø 115 mm	9.4 kg	439 x 206 x 37,6	ø 242 mm



NEW **Orbital welding (Closed heads) - Accessories Cassettes**



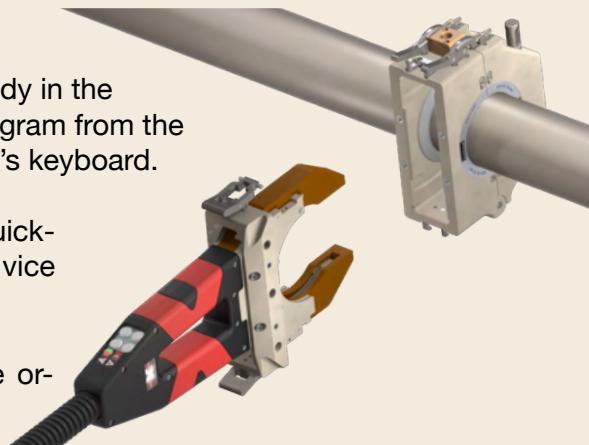
Global Process 2 in 1

These cassettes are intended to be mounted on the closed welding heads of the SATFX range. They allow the operator to perform welds in a cramped and restrictive environment, where it is difficult to operate these welding machines.

When the cassette is in place on the tubes or accessories to be welded, the operator only has to fix the machine body in the cassette and then start the welding program from the power supply or from the welding head's keyboard.

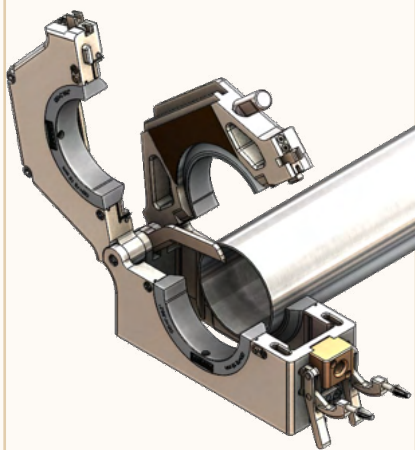
Flexibility: The SATFX heads can be quickly converted to cassette machines and vice versa.

Please note that the cassettes can be ordered later on.



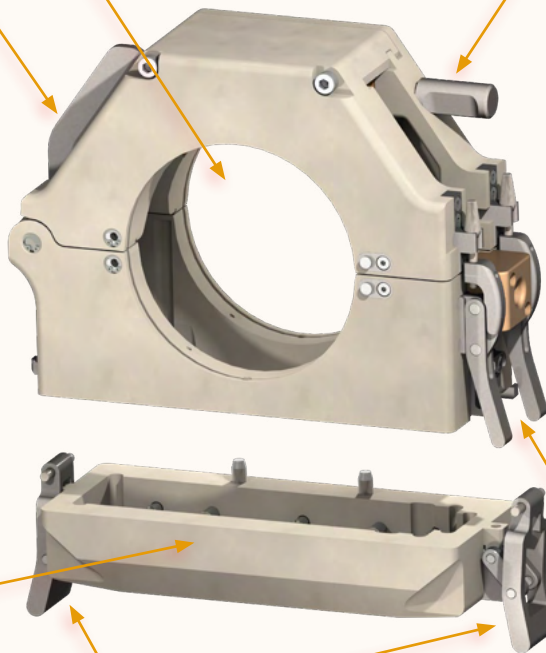
Thin and wide clamping jaws can be used.

Stop blade for placing the cassette on a single tube or accessory and tacking with the SATFX head.



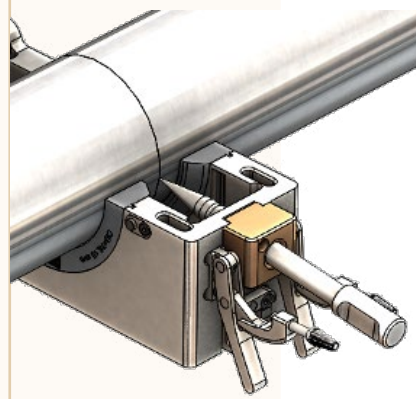
Interface to be fixed on the welding head.

Cassette clamping lever on machine.



Positioning pen for placing the cassette on two tubes or accessories in line, already tacked.

The tip of the pen represents the tip of the electrode.



The cassettes benefit from the same **closing system with adjustable force without tools** that allows precise adjustment of the jaw force on the tube to be welded and assists opening after welding.



NEW **Orbital welding (Closed heads) - Accessories**
Cassettes



Product Code	Description	Net weight	Packaging (in cm)
SATFX52-CA01	Cassette for SATFX-52	2,3 kg	30 x 30 x 15
Cassette to be mounted on the SATFX-52 closed welding head for welding in confined spaces . Easy positioning of the cassette on the parts to be welded before fixing the central body of the head.			
✓ SATFX-52	SATFX-76		SATFX-115

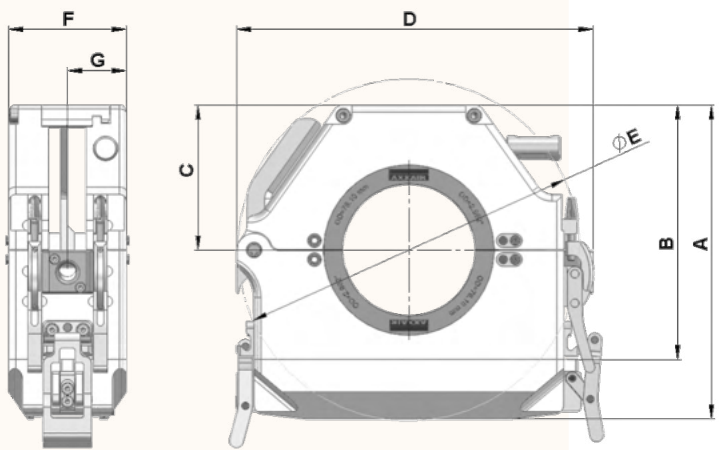


Product Code	Description	Net weight	Packaging (in cm)
SATFX76-CA01	Cassette for SATFX-76	2,7 kg	30 x 30 x 15
Cassette to be mounted on the SATFX-76 closed welding head for welding in confined spaces . Easy positioning of the cassette on the parts to be welded before fixing the central body of the head.			
SATFX-52	✓ SATFX-76		SATFX-115



Product Code	Description	Net weight	Packaging (in cm)
SATFX115-CA01	Cassette for SATFX-115	3,5kg	30 x 30 x 15
Cassette to be mounted on the SATFX-115 closed welding head for welding in confined spaces . Easy positioning of the cassette on the parts to be welded before fixing the central body of the head.			
SATFX-52	SATFX-76		✓ SATFX-115

	SATFX52-CA01	SATFX76-CA01	SATFX115-CA01
A	158	182	222,5
B	123,5	147,5	188
C	72	84	104
D	182,5	206,5	246,5
ØE	175	199	238
F	68,1	68,1	68,1
G	34,05	34,05	34,05



Orbital welding (Closed heads) - Accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

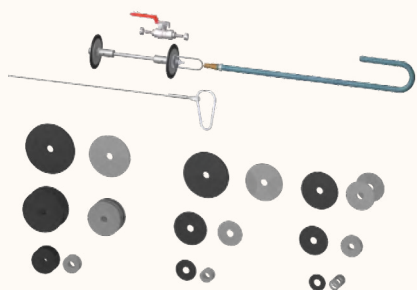
NEW



Product Code	Description	Net weight	Packaging (in cm)
SATFX-SUP	Machine support	1.39 kg	20 x 20 x 20

This modular support allows the installation of the machine on all possible types of support (workbench, barrier, etc...).

✓ SATFX-52	✓ SATFX-76	✓ SATFX-115
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Product Code	Description	Net weight	Packaging (in cm)
SKIF-01	Gas protection KIT	4.5 kg	35 x 30 x 9.5

Gas membrane protection KIT for tubes Ø 40 to 120 mm

- consists of: 9 sets of membranes with washers, 1 gas pipe 6 m, 1 metal cable, 1 ¼ turn gas valve, 1 carabiner

Inerting the tubes during welding allows more gas savings as we only inert the area to be welded.

✓ SATFX-52	✓ SATFX-76	✓ SATFX-115
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Product Code	Description	Net weight	Packaging (in cm)
SKIB-01	Gas protection KIT	1.7 kg	35 x 30 x 9.5

Gas plug protection KIT for tubes Ø 6 to 41 mm

- Consists of: 10 sets of perforated plugs, 1 gas inlet connector, 1 hose Ø 4/6 length 5 metres

Facilitates and accelerates inerting. Avoids the use of adhesive paper.

✓ SATFX-52	✓ SATFX-76	✓ SATFX-115
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To increase the operating distance between the welding head and the SAXX power source, we offer cable extensions.

In order to guarantee the proper functioning of the machine, a **maximum length of 20m of extension or a maximum quantity of 2 extension cables** is recommended. For a higher need, please consult us.

Cooling and use	Length	Product Code	Net weight	Dimensions (AxBxC in mm)
WATER - WITHOUT WIRE	5 metres	SAFS-05MX	7 kg	40 x 59 x 25
	10 metres	SAFS-10MX	14 kg	40 x 59 x 25

✓ SATFX-52	✓ SATFX-76	✓ SATFX-115
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Orbital welding (Closed heads) - Accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS



Thin clamping jaws, thickness 8 mm, stainless steel

A set of thin clamping jaws consists of **four half-shells** machined to the outside diameter of the tube.

For Machine	Product Code	Net weight	Packaging (plastic)
SATFX-52	SMN052-xx	Depending on the tube \varnothing	7.5 x 8 x 3 cm
SATFX-76	SMN076-xx	Depending on the tube \varnothing	11 x 11.5 x 3 cm
SATFX-115	SMN115-xx	Depending on the tube \varnothing	17 x 18 x 3 cm

To order the jaws, replace xx with the outside diameter of the tube you want to weld.

Example: A set of jaws for clamping a tube with an outside diameter of \varnothing 38.10 mm = SMN052-38.1

✓ SATFX-52

✓ SATFX-76

✓ SATFX-115



Wide clamping jaws, thickness 22 mm, aluminium

One set of wide jaws consists of **two half shells** machined to the external diameter of the tube.

For Machine	Product Code	Net weight	Packaging (plastic)
SATFX-52	SML052-xx	Depending on the tube \varnothing	7.5 x 8 x 3 cm
SATFX-76	SML076-xx	Depending on the tube \varnothing	11 x 11.5 x 3 cm
SATFX-115	SML115-xx	Depending on the tube \varnothing	17 x 18 x 3 cm

To order the jaws, replace xx with the outside diameter of the tube you want to weld.

Example: A set of jaws for clamping a tube with an outside diameter of \varnothing 38.10 mm = SML052-38.1

✓ SATFX-52

✓ SATFX-76

✓ SATFX-115



Clamping jaws adaptation spacers, thickness 8 mm, stainless steel

A set of spacers consists of **four half-shells** machined to the outside shape of the jaws concerned. It allows you to use the jaws of a machine of lower capacity.

For Machine	Jaws that you can use	Product code	Net weight	Packaging (plastic)
SATFX-76	SATF-40NDHX	SMN076-ET40	0.5 kg	7.5 x 8 x 3 cm
	SATFX-52	SMN076-ET52	0.4 kg	7.5 x 8 x 3 cm
SATFX-115	SATF-40NDHX	SMN115-ET40	1.7 kg	7.5 x 8 x 3 cm
	SATFX-52	SMN115-ET52	1.2 kg	7.5 x 8 x 3 cm
	SATF-65NDHX	SMN115-ET65	1.0 kg	11 x 11.5 x 3 cm
	SATFX-76	SMN115-ET76	0.9 kg	11 x 11.5 x 3 cm

Example: With the spacer SMN115-ET76, you can use the jaws of the head SATFX-76 with the SATFX-115.

✓ SATFX-52

✓ SATFX-76

✓ SATFX-115

AXXAIR also offers adaptation spacers for jaws from other manufacturers. For further information, please contact us.



Orbital welding (Closed heads) - Accessories



NEW

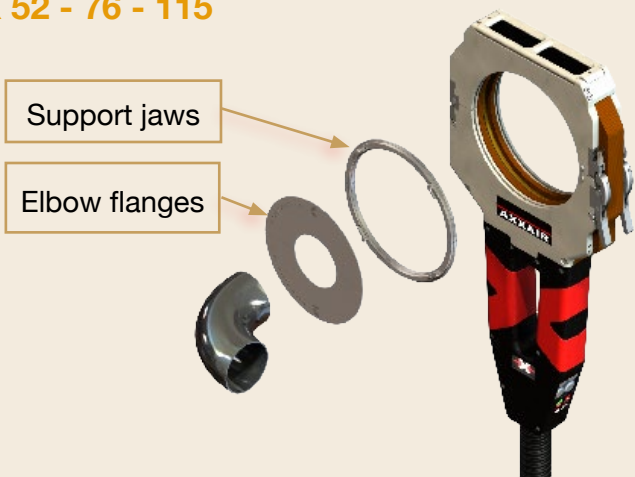
In order to fit various configurations of parts to be welded, AXXAIR offers flanges with a perfect shape for your elbows.

The use of these elbow flanges allows an optimized gas protection while avoiding the use of tape and the cleaning of the elbow after welding.

Use with SATFX 52 - 76 - 115

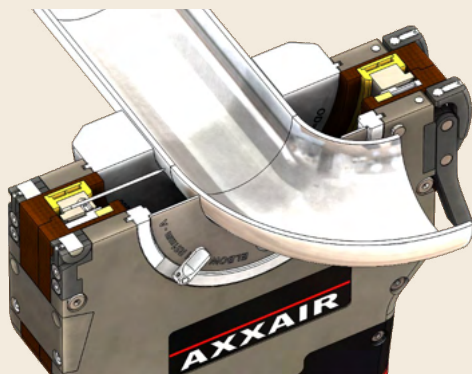
For welding your elbow-tube with a closed head, you will need:

- the specific elbow flange support jaws (2 half-shells) for your machine
- Elbow flanges (2 half-shells) for each outer diameter and radius of your elbow to be welded



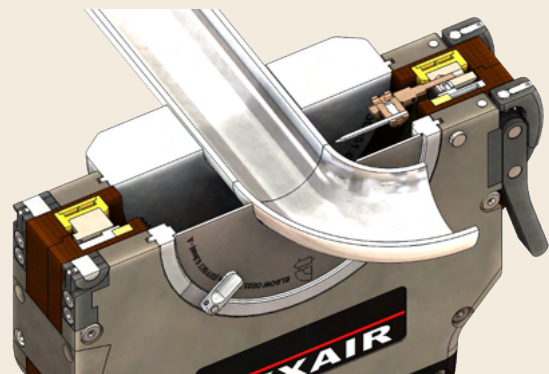
The use of the SSEDX offset electrode support may be required depending on the configuration of the elbow to be welded (in the following product code table, the SSEDX column shows whether the accessories is needed or not).

Standard configuration



Welding axis aligned with the machine

Configuration with offset electrode holder required



Offset welding axis with regards to the machine/head

See the following «accessories» part for more details on the SSEDX offset electrode holder.



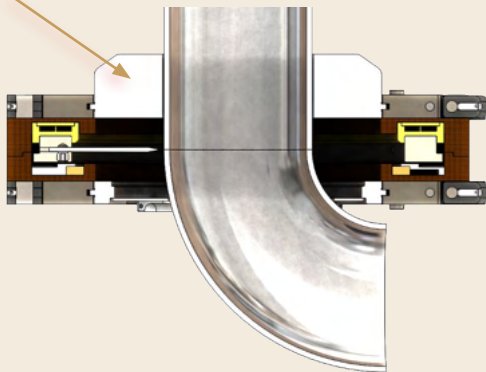
Orbital welding (Closed heads) - Accessories



Tube end

It is recommended to use wide clamping jaws (2 half-shells) to ensure a better hold of the closed head on the tube-elbow to be welded and already tacked.

Wide clamping jaws



Elbow end

The elbow flanges rotate in order to give flexibility and to fit perfectly your different configurations and welding postures.

Elbow flange rotation on their support



Elbow flange support, thickness 10.6 mm, stainless steel

A set of elbow flange support jaws is made of 2 thin half-shells.



For Machine	Product Code	Net Weight	Packaging (plastic)
SATFX-52	SMN052-SFLAX	0.088 kg	10 x 10 x 2.5 cm
SATFX-76	SMN076-SFLAX	0.118 kg	12.5 x 12.5 x 2.5 cm
SATFX-115	SMN115-SFLAX	0.168 kg	16 x 16 x 2.5 cm

These jaws have to be used with elbow flanges depending on elbow to be welded dimensions (OD and radius)

✓ SATFX-52

✓ SATFX-76

✓ SATFX-115



Orbital welding (Closed heads) - Accessories (Elbow Flanges)



AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

OD mm	R mm	SATFX-52	SATFX-76	SATFX-115	SSEDX
6	19	21AAA00-19A	31AAA00-19A		✓
12	26	21ACI00-26A	31ACI00-26A	41ACI00-26A	✓
12,7	19,05	21ACP00-19,05A	31ACP00-19,05A	41ACP00-19,05A	✓
12,7	28,58	21ACP00-28,58A	31ACP00-28,58A	41ACP00-28,58A	✓
12,7	38,1	21ACP00-38,1	31ACP00-38,1	41ACP00-38,1	
12,7	304,8	21ACP00-304,8	31ACP00-304,8	41ACP00-304,8	
13	26	21ACS00-26A	31ACS00-26A	41ACS00-26A	✓
13,5	20	21ACX00-20A	31ACX00-20A	41ACX00-20A	✓
13,5	21	21ACX00-21A	31ACX00-21A	41ACX00-21A	✓
13,7	20	21ACZ00-20A	31ACZ00-20A	41ACZ00-20A	✓
17,2	25	21AEI00-25A	31AEI00-25A	41AEI00-25A	✓
17,2	30	21AEI00-30A	31AEI00-30A	41AEI00-30A	✓
17,3	37,5	21AEJ00-37,5	31AEJ00-37,5	41AEJ00-37,5	
18	23	21AEQ00-23A	31AEQ00-23A	41AEQ00-23A	✓
18	27	21AEQ00-27A	31AEQ00-27A	41AEQ00-27A	✓
18	35	21AEQ00-35	31AEQ00-35	41AEQ00-35	
19	35	21AFA00-35	31AFA00-35	41AFA00-35	
19,05	28,6	21AFA01-28,6A	31AFA01-28,6A	41AFA01-28,6A	✓
19,05	38,1	21AFA01-35,1	31AFA01-38,1	41AFA01-38,1	
19,05	304,8	21AFA01-304,8	31AFA01-304,8	41AFA01-304,8	
20	26	21AFK00-26A	31AFK00-26A	41AFK00-26A	✓
20	30	21AFK00-30A	31AFK00-30A	41AFK00-30A	✓
21	25	21AFU00-25A	31AFU00-25A	41AFU00-25A	✓
21,3	28	21AFX00-28A	31AFX00-28A	41AFX00-28A	✓
21,3	27	21AFX00-27A	31AFX00-27A	41AFX00-27A	✓
21,3	31,95	21AFX00-31,95A	31AFX00-31,95A	41AFX00-31,95A	✓
21,3	38	21AFX00-38	31AFX00-38	41AFX00-38	
21,3	38,1	21AFX00-38,1	31AFX00-38,1	41AFX00-38,1	
21,3	45	21AFX00-45	31AFX00-45	41AFX00-45	
21,7	38,1	21AGB00-38,1	31AGB00-38,1	41AGB00-38,1	
22	40	21AGE00-40	31AGE00-40	41AGE00-40	
23	26	21AGO00-26A	31AGO00-26A	41AGO00-26A	✓
23	30	21AGO00-30A	31AGO00-30A	41AGO00-30A	✓
23	34,5	21AGO00-34,5	31AGO00-34,5	41AGO00-34,5	
23	40	21AGO00-40	31AGO00-40	41AGO00-40	
23	60	21AGO00-60	31AGO00-60	41AGO00-60	
25	30	21AHI00-30A	31AHI00-30A	41AHI00-30A	✓
25	33	21AHI00-33A	31AHI00-33A	41AHI00-33A	✓
25	37	21AHI00-37	31AHI00-37	41AHI00-37	
25	37,5	21AHI00-37,5	31AHI00-37,5	41AHI00-37,5	
25	38	21AHI00-38	31AHI00-38	41AHI00-38	
25	38,1	21AHI00-38,1	31AHI00-38,1	41AHI00-38,1	
25	65	21AHI00-65	31AHI00-65	41AHI00-65	
25,4	27,5	21AHM00-27,5A	31AHM00-27,5A	41AHM00-27,5A	✓
25,4	35	21AHM00-35A	31AHM00-35A	41AHM00-35A	✓
25,4	38,1	21AHM00-38,1	31AHM00-38,1	41AHM00-38,1	
25,4	52,37	21AHM00-52,37	31AHM00-52,37	41AHM00-52,37	
25,4	304,8	21AHM00-304,8	31AHM00-304,8	41AHM00-304,8	
25,4	609,6	21AHM00-609,6	31AHM00-609,6	41AHM00-609,6	
26	30	21AHS00-30A	31AHS00-30A	41AHS00-30A	✓
26,7	28	21AHZ00-28A	31AHZ00-28A	41AHZ00-28A	✓
26,7	28,6	21AHZ00-28,6A	31AHZ00-28,6A	41AHZ00-28,6A	✓



Orbital welding (Closed heads) - Accessories (Elbow Flanges)



AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

OD mm	R mm	SATFX-52	SATFX-76	SATFX-115	SSEDX
26,7	38	21AHZ00-38	31AHZ00-38	41AHZ00-38	
26,7	38,1	21AHZ00-38,1	31AHZ00-38,1	41AHZ00-38,1	
26,9	28	21AIB00-28A	31AIB00-28A	41AIB00-28A	✓
26,9	28,5	21AIB00-28,5A	31AIB00-28,5A	41AIB00-28,5A	✓
26,9	29	21AIB00-29A	31AIB00-29A	41AIB00-29A	✓
26,9	38	21AIB00-38	31AIB00-38	41AIB00-38	
26,9	40,35	21AIB00-40,35	31AIB00-40,35	41AIB00-40,35	
26,9	57	21AIB00-57	31AIB00-57	41AIB00-57	
27,2	28,6	21AIE00-28,6A	31AIE00-28,6A	41AIE00-28,6A	✓
27,2	38,1	21AIE00-38,1	31AIE00-38,1	41AIE00-38,1	
28	31,8	21AIM00-31,8A	31AIM00-31,8A	41AIM00-31,8A	✓
28	37	21AIM00-37	31AIM00-37	41AIM00-37	
28	42	21AIM00-42	31AIM00-42	41AIM00-42	
28	50	21AIM00-50	31AIM00-50	41AIM00-50	
28	80	21AIM00-80	31AIM00-80	41AIM00-80	
29	50	21AIW00-50	31AIW00-50	41AIW00-50	
29	60	21AIW00-60	31AIW00-60	41AIW00-60	
30	33,5	21AJG00-33,5A	31AJG00-33,5A	41AJG00-33,5A	✓
30	38	21AJG00-38	31AJG00-38	41AJG00-38	
30	45	21AJG00-45	31AJG00-45	41AJG00-45	
31,75	47,63	21AJX01-47,63	31AJX01-47,63	41AJX01-47,63	
32	35	21AKA00-35A	31AKA00-35A	41AKA00-35A	✓
32	43	21AKA00-43	31AKA00-43	41AKA00-43	
32	48	21AKA00-48	31AKA00-48	41AKA00-48	
33	45	21AKK00-45	31AKK00-45	41AKK00-45	
33	49,5	21AKK00-49,5	31AKK00-49,5	41AKK00-49,5	
33	90	21AKK00-90	31AKK00-90	41AKK00-90	
33,4	25,4				
33,4	38,1	21AKO00-38,1A	31AKO00-38,1A	41AKO00-38,1A	✓
33,4	38	21AKO00-38A	31AKO00-38A	41AKO00-38A	✓
33,7	38	21AKR00-38A	31AKR00-38A	41AKR00-38A	✓
33,7	50,55	21AKR00-50,55	31AKR00-50,55	41AKR00-50,55	
33,7	72	21AKR00-72	31AKR00-72	41AKR00-72	
34	38,1	21AKU00-38,1A	31AKU00-38,1A	41AKU00-38,1A	✓
34	51	21AKU00-51	31AKU00-51	41AKU00-51	
34	55	21AKU00-55	31AKU00-55	41AKU00-55	
35	50	21ALE00-50	31ALE00-50	41ALE00-50	
35	52,5	21ALE00-52,5	31ALE00-52,5	41ALE00-52,5	
35	55	21ALE00-55	31ALE00-55	41ALE00-55	
35	70	21ALE00-70	31ALE00-70	41ALE00-70	
38	45	21AMI00-45	31AMI00-45	41AMI00-45	
38	52	21AMI00-52	31AMI00-52	41AMI00-52	
38	56	21AMI00-56	31AMI00-56	41AMI00-56	
38	57	21AMI00-57	31AMI00-57	41AMI00-57	
38	57,2	21AMI00-57,2	31AMI00-57,2	41AMI00-57,2	
38	105	21AMI00-105	31AMI00-105	41AMI00-105	
38,1	45	21AMJ00-45	31AMJ00-45	41AMJ00-45	
38,1	50	21AMJ00-50	31AMJ00-50	41AMJ00-50	
38,1	57,15	21AMJ00-57,15	31AMJ00-57,15	41AMJ00-57,15	
38,1	57,2	21AMJ00-57,2	31AMJ00-57,2	41AMJ00-57,2	
38,1	57,3	21AMJ00-57,3	31AMJ00-57,3	41AMJ00-57,3	
38,1	74,6	21AMJ00-74,6	31AMJ00-74,6	41AMJ00-74,6	

Orbital welding (Closed heads) - Accessories (Elbow Flanges)



OD mm	R mm	SATFX-52	SATFX-76	SATFX-115	SSEDX
38,1	304,8	21AMJ00-304,8	31AMJ00-304,8	41AMJ00-304,8	
38,1	457,2	21AMJ00-457,2	31AMJ00-457,2	41AMJ00-457,2	
38,1	609,6	21AMJ00-609,6	31AMJ00-609,6	41AMJ00-609,6	
38,1	914,4	21AMJ00-914,4	31AMJ00-914,4	41AMJ00-914,4	
40	60	21ANC00-60	31ANC00-60	41ANC00-60	
41	60	21ANM00-60	31ANM00-60	41ANM00-60	
41	82	21ANM00-82	31ANM00-82	41ANM00-82	
42,1	31,8				
42,2	31,8				
42,2	47	21ANY00-47	31ANY00-47	41ANY00-47	
42,2	47,6	21ANY00-47,6	31ANY00-47,6	41ANY00-47,6	
42,4	47	21AOA00-47	31AOA00-47	41AOA00-47	
42,4	47,6	21AOA00-47,6	31AOA00-47,6	41AOA00-47,6	
42,4	48	21AOA00-48	31AOA00-48	41AOA00-48	
42,4	63,6	21AOA00-63,6	31AOA00-63,6	41AOA00-63,6	
42,4	93	21AOA00-93	31AOA00-93	41AOA00-93	
43	64,5	21AOG00-64,5	31AOG00-64,5	41AOG00-64,5	
43	70	21AOG00-70	31AOG00-70	41AOG00-70	
43	120	21AOG00-120	31AOG00-120	41AOG00-120	
44,5	51	21AOV00-51	31AOV00-51	41AOV00-51	
44,5	64,5	21AOV00-64,5	31AOV00-64,5	41AOV00-64,5	
44,5	66	21AOV00-66	31AOV00-66	41AOV00-66	
44,5	120	21AOV00-120	31AOV00-120	41AOV00-120	
48,1	38,1	21AQF00-38,1A	31AQF00-38,1A	41AQF00-38,1A	✓
48,3	38,1	21AQH00-38,1A	31AQH00-38,1A	41AQH00-38,1A	✓
48,3	57	21AQH00-57	31AQH00-57	41AQH00-57	
48,3	57,1	21AQH00-57,1	31AQH00-57,1	41AQH00-57,1	
48,3	57,2	21AQH00-57,2	31AQH00-57,2	41AQH00-57,2	
48,3	64,15	21AQH00-64,15	31AQH00-64,15	41AQH00-64,15	
48,3	72,45	21AQH00-72,45	31AQH00-72,45	41AQH00-72,45	
48,3	108	21AQH00-108	31AQH00-108	41AQH00-108	
48,6	57,2	21AQK00-57,2	31AQK00-57,2	41AQK00-57,2	
50	75	21AQY00-75	31AQY00-75	41AQY00-75	
50,8	60	21ARG00-60	31ARG00-60	41ARG00-60	
50,8	67,5	21ARG00-67,5	31ARG00-67,5	41ARG00-67,5	
50,8	76,2	21ARG00-76,2	31ARG00-76,2	41ARG00-76,2	
50,8	103,17	21ARG00-103,17	31ARG00-103,17	41ARG00-103,17	
50,8	304,8	21ARG00-304,8	31ARG00-304,8	41ARG00-304,8	
50,8	457,2	21ARG00-457,2	31ARG00-457,2	41ARG00-457,2	
50,8	609,6	21ARG00-609,6	31ARG00-609,6	41ARG00-609,6	
50,8	914,4	21ARG00-914,4	31ARG00-914,4	41ARG00-914,4	
50,8	1219,2	21ARG00-1219,2	31ARG00-1219,2	41ARG00-1219,2	
51	51		31ARI00-51	41ARI00-51	
51	63	21ARI00-63	31ARI00-63	41ARI00-63	
51	67,5	21ARI00-67,5	31ARI00-67,5	41ARI00-67,5	
51	75	21ARI00-75	31ARI00-75	41ARI00-75	
51	76	21ARI00-76	31ARI00-76	41ARI00-76	
51	76,2	21ARI00-76,2	31ARI00-76,2	41ARI00-76,2	
51	76,5	21ARI00-76,5	31ARI00-76,5	41ARI00-76,5	
52	69	21ARS00-69	31ARS00-69	41ARS00-69	
52	70	21ARS00-70	31ARS00-70	41ARS00-70	
52	75	21ARS00-75	31ARS00-75	41ARS00-75	



Orbital welding (Closed heads) - Accessories (Elbow Flanges)



AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

OD mm	R mm	SATFX-52	SATFX-76	SATFX-115	SSEDX
52	78	21ARS00-78	31ARS00-78	41ARS00-778	
53	70		31ASC00-70	41ASC00-70	
53	75		31ASC00-75	41ASC00-75	
53	79,5		31ASC00-79,5	41ASC00-79,5	
53	106		31ASC00-106	41ASC00-106	
53	150		31ASC00-150	41ASC00-150	
54	54		31ASM00-54	41ASM00-54	
54	68,5		31ASM00-68,5	41ASM00-68,5	
54	70		31ASM00-70	41ASM00-70	
54	75		31ASM00-75	41ASM00-75	
54	150		31ASM00-150	41ASM00-150	
56	77		31ATG00-77	41ATG00-77	
57	72		31ATQ00-72	41ATQ00-72	
60,3	50,8		31AUX00-50,8A	41AUX00-50,8A	✓
60,3	76		31AUX00-76	41AUX00-76	
60,3	76,1		31AUX00-76,1	41AUX00-76,1	
60,3	76,2		31AUX00-76,2	41AUX00-76,2	
60,3	80		31AUX00-80	41AUX00-80	
60,3	90,45		31AUX00-90,45	41AUX00-90,45	
60,3	135		31AUX00-135	41AUX00-135	
63	95		31AVY00-95	41AVY00-95	
63,5	79		31AWD00-79	41AWD00-79	
63,5	82,5		31AWD00-82,5	41AWD00-82,5	
63,5	90		31AWD00-90	41AWD00-90	
63,5	94,5		31AWD00-94,5	41AWD00-94,5	
63,5	95,25		31AWD00-95,25	41AWD00-95,25	
63,5	131,75		31AWD00-131,75	41AWD00-131,75	
63,5	304,8		31AWD00-304,8	41AWD00-304,8	
63,5	457,2		31AWD00-457,2	41AWD00-457,2	
63,5	609,6		31AWD00-609,6	41AWD00-609,6	
63,5	914,4		31AWD00-914,4	41AWD00-914,4	
64	180		31AWI00-180	41AWI00-180	
70	80		31AYQ00-80	41AYQ00-80	
70	92		31AYQ00-92	41AYQ00-92	
70	95		31AYQ00-95	41AYQ00-95	
70	97,5		31AYQ00-97,5	41AYQ00-97,5	
70	105		31AYQ00-105	41AYQ00-105	
70	130		31AYQ00-130	41AYQ00-130	
70	140		31AYQ00-140	41AYQ00-140	
71	97,5		31AZA00-97,5	41AZA00-97,5	
73	63,5		31AZU00-63,5	41AZU00-63,5	
73	95		31AZU00-95	41AZU00-95	
73	95,3		31AZU00-95,3	41AZU00-95,3	
73	109,5		31AZU00-109,5	41AZU00-109,5	
74	140		31BAE00-140	41BAE00-140	
76	114		31BAY00-114	41BAY00-114	
76,1	95		31BAZ00-95	41BAZ00-95	
76,1	96		31BAZ00-96	41BAZ00-96	
76,1	114		31BAZ00-114	41BAZ00-114	
76,1	114,15		31BAZ00-114,15	41BAZ00-114,15	
76,1	175		31BAZ00-175	41BAZ00-175	
76,2	114,3		31BBA00-114,3	41BBA00-114,3	

Orbital welding (Closed heads) - Accessories (Elbow Flanges)



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INNOVATIVE ORBITAL SOLUTIONS

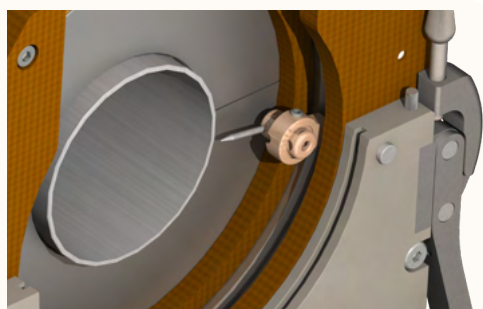
OD mm	R mm	SATFX-52	SATFX-76	SATFX-115	SSEDX
76,2	160,32		31BBA00-160,32	41BBA00-160,32	
76,2	304,8		31BBA00-304,8	41BBA00-304,8	
76,2	457,2		31BBA00-457,2	41BBA00-457,2	
76,2	609,6		31BBA00-609,6	41BBA00-609,6	
76,2	914,4		31BBA00-914,4	41BBA00-914,4	
76,2	1219,2		31BBA00-1219,2	41BBA00-1219,2	
76,3	82		31BBB00-82	41BBB00-82	
84	120			41BEA00-120	
84	126			41BEA00-126	
84	160			41BEA00-160	
85	90			41BEK00-90	
86	126			41BEU00-126	
88,9	76,2			41BFX00-76,2	
88,9	114			41BFX00-114	
88,9	114,3			41BFX00-114,3	
88,9	114,5			41BFX00-114,5	
88,9	205			41BFX00-205	
101,6	88,9			41BKU00-88,9	
101,6	110			41BKU00-110	
101,6	114,3			41BKU00-114,3	
101,6	133			41BKU00-133	
101,6	133,4			41BKU00-133,4	
101,6	133,5			41BKU00-133,5	
101,6	134,5			41BKU00-134,5	
101,6	150			41BKU00-150	
101,6	152			41BKU00-152	
101,6	152,4			41BKU00-152,4	
101,6	211,12			41BKU00-211,12	
101,6	304,8			41BKU00-304,8	
101,6	457,2			41BKU00-457,2	
101,6	609,6			41BKU00-609,6	
101,6	914,4			41BKU00-914,4	
101,6	1219,2			41BKU00-1219,2	
104	100			41BLS00-100	
104	110			41BLS00-110	
104	140			41BLS00-140	
104	150			41BLS00-150	
104	152			41BLS00-152	
104	200			41BLS00-200	
106	150			41BMM00-150	
108	142,5			41BNG00-142,5	
114,3	101,6			41BPR00-101,6	
114,3	152			41BPR00-152	
114,3	152,4			41BPR00-152,4	
114,3	152,5			41BPR00-152,5	
114,3	270			41BPR00-270	



Orbital welding (Closed heads) - Accessories



NEW



✓ SATFX-52

Product Code	Description	Net weight	Dimensions
SSEDX	Offset electrode support	0.008 kg	150 x 210 mm

Remote electrode holder for $\varnothing 1.6$ mm and $\varnothing 2.4$ mm electrodes:

The SSEDX accessory allows a lateral displacement of 2 to 6.5mm from the original position which allows for the welding of short elbows for example.

If you use this system, the usable diameter range of the tube is reduced:

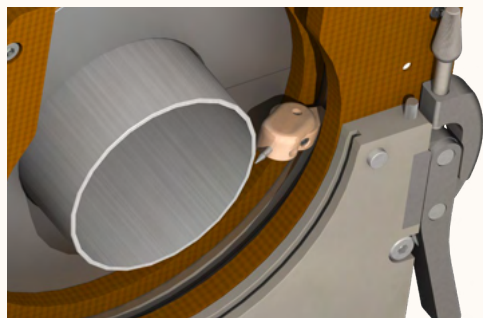
Machine	\varnothing min	\varnothing max
SATFX-52	6 mm	43 mm
SATFX-76	6 mm	67 mm
SATFX-115	12 mm	107 mm

See consumables to find the electrodes required for its use.

✓ SATFX-76

✓ SATFX-115

NEW



✓ SATFX-52

Product Code	Description	Net weight	Dimensions
SSEIX	Inclined electrode holder	0.015 kg	150 x 210 mm

Inclined electrode holder for $\varnothing 1.6$ mm and $\varnothing 2.4$ mm electrodes:

The SSEIX accessory allows the electrode to be tilted from 0° to 45° , which makes it possible to produce angle welds (flange welds or other accessories).

If you use this system, the usable diameter range of the tube is reduced:

Machine	\varnothing min	\varnothing max
SATFX-52	6 mm	28 mm
SATFX-76	6 mm	52 mm
SATFX-115	12 mm	92 mm

See consumables to find the electrodes required for its use.

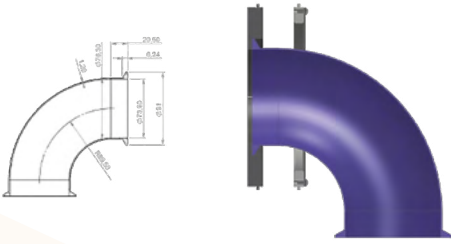
✓ SATFX-76

✓ SATFX-115



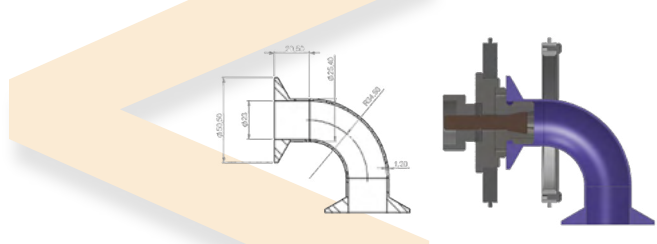
Orbital welding (Closed heads) Accessories on request

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INNOVATIVE ORBITAL SOLUTIONS



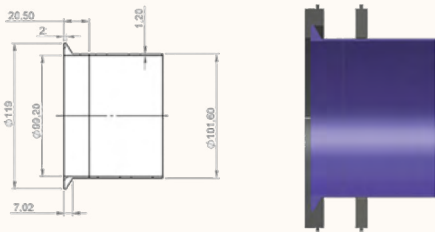
Ferrule – elbow – ferrule configuration (large diameter)

- Elbow end: adaptor jaws + gas protection side plates in stainless steel
- Ferrule end: special jaws



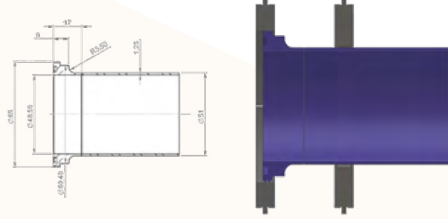
Ferrule – elbow – ferrule configuration (small diameter)

- Elbow end: adaptor jaws + gas protection side plates in stainless steel
- Ferrule end: special jaws



Tube – ferrule configuration

- Tube end: standard jaws
- Ferrule end: special jaws



Tube – connector configuration

- Tube end: standard jaws
- Connector end: special jaws

For any other specific requirements,
please do not hesitate to contact us
to examine the solutions
that we can provide!



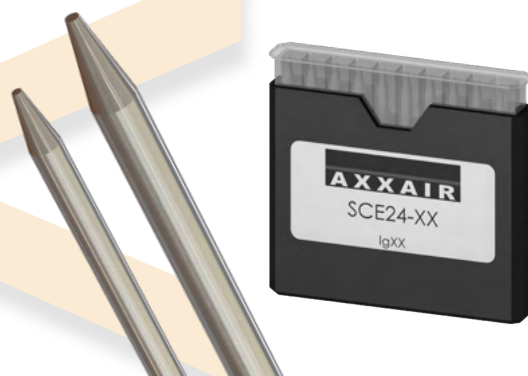
Orbital welding (Closed heads) - Consumables

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INNOVATIVE ORBITAL SOLUTIONS

Our electrodes are specifically sharpened to 20° with a flat. This increases the service life of the electrodes.

We offer pre-cut electrodes to cover the entire clamping range of the head without damaging the rotary system. The electrode must be selected according to the outer diameter of the tube to be welded.



NEW Electrodes for SATFX-52

Tube OD / ø of the Tube	Electrode Product Code ø1.6	Electrode Product Code ø2.4	Electrode length in mm
06 – 11,5 mm	SCE16-48	SCE24-48	48.0
11,5 – 18,5 mm	SCE16-44.5	SCE24-44.5	44.5
18,5 – 25,5 mm	SCE16-41	SCE24-41	41.0
25,5 – 32,5 mm	SCE16-37.5	SCE24-37.5	37.5
32,5 – 39,5 mm	SCE16-34	SCE24-34	34.0
39,5 – 46,5 mm	SCE16-30.5	SCE24-30.5	30.5
46,5 – 52 mm	SCE16-27	SCE24-27	27.0

✓ SATFX-52

SATFX-76

SATFX-115

NEW Electrodes for SATFX-76

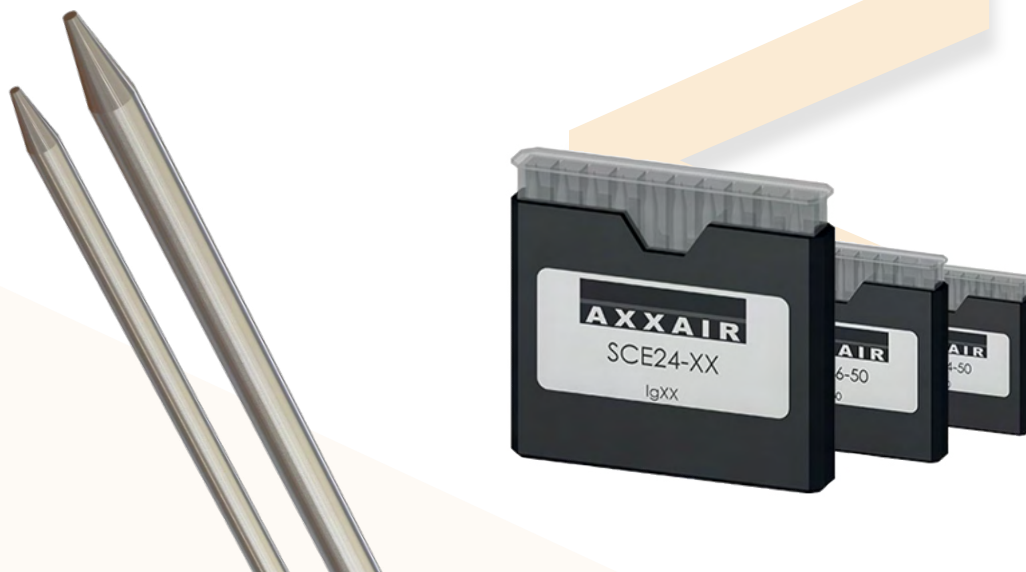
Tube OD / ø of the Tube	Electrode Product Code ø1.6	Electrode Product Code ø2.4	Electrode length in mm
06 – 7,5 mm	SCE16-62	SCE24-62	62.0
7,5 – 14,5 mm	SCE16-58.5	SCE24-58.5	58.5
14,5 – 21,5 mm	SCE16-55	SCE24-55	55.0
21,5 – 28,5 mm	SCE16-51.5	SCE24-51.5	51.5
28,5 – 35,5 mm	SCE16-48	SCE24-48	48.0
35,5 – 42,5 mm	SCE16-44.5	SCE24-44.5	44.5
42,5 – 49,5 mm	SCE16-41	SCE24-41	41.0
49,5 – 56,5 mm	SCE16-37.5	SCE24-37.5	37.5
56,5 – 63,5 mm	SCE16-34	SCE24-34	34.0
63,5 – 70,5 mm	SCE16-30.5	SCE24-30.5	30.5
70,5 – 77 mm	SCE16-27	SCE24-27	27.0

SATFX-52

✓ SATFX-76

SATFX-115

Orbital welding (Closed heads) - Consumables



NEW Electrodes for SATFX-115

Tube OD / ø of the Tube	Electrode Product Code ø1.6	Electrode Product Code ø2.4	Electrode length in mm
12 – 19,5 mm	SCE16-76	SCE24-76	76.0
19,5 – 26,5 mm	SCE16-72.5	SCE24-72.5	72.5
26,5 – 33,5 mm	SCE16-69	SCE24-69	69.0
33,5 – 40,5 mm	SCE16-65.5	SCE24-65.5	65.5
40,5 – 47,5 mm	SCE16-62	SCE24-62	62.0
47,5 – 54,5 mm	SCE16-58.5	SCE24-58.5	58.5
54,5 – 61,5 mm	SCE16-55	SCE24-55	55.0
61,5 – 68,5 mm	SCE16-51.5	SCE24-51.5	51.5
68,5 – 75,5 mm	SCE16-48	SCE24-48	48.0
75,5 – 82,5 mm	SCE16-44.5	SCE24-44.5	44.5
82,5 – 89,5 mm	SCE16-41	SCE24-41	41.0
89,5 – 96,5 mm	SCE16-37.5	SCE24-37.5	37.5
96,5 – 103,5 mm	SCE16-34	SCE24-34	34.0
103,5 – 110,5 mm	SCE16-30.5	SCE24-30.5	30.5
110,5 – 115 mm	SCE16-27	SCE24-27	27.0

SATFX-52	SATFX-76	✓ SATFX-115
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Orbital welding (Closed head) - Consumables

Electrodes when using the accessory SSEDX

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SSEDX : Remote electrode holder for $\varnothing 1.6$ mm and $\varnothing 2.4$ mm electrodes.

If you use this system, the usable diameter range of the tube is reduced.



Electrodes for SATFX-52 when using the accessory SSEDX

Tube OD / \varnothing of the Tube	Electrode Product Code $\varnothing 1.6$	Electrode Product Code $\varnothing 2.4$	Electrode length
06 - 13 mm	SCE16-27	SCE24-27	27.0 mm
09 - 16 mm	SCE16-25.5	SCE24-25.5	25.5 mm
11 - 18 mm	SCE16-24.5	SCE24-24.5	24.5 mm
16 - 23 mm	SCE16-22	SCE24-22	22.0 mm
18 - 25 mm	SCE16-21	SCE24-21	21.0 mm
20 - 27 mm	SCE16-20	SCE24-20	20.0 mm
22 - 29 mm	SCE16-19	SCE24-19	19.0 mm
23 - 30 mm	SCE16-18.5	SCE24-18.5	18.5 mm
24 - 31 mm	SCE16-18	SCE24-18	18.0 mm
25 - 32 mm	SCE16-17.5	SCE24-17.5	17.5 mm
30 - 37 mm	SCE16-15	SCE24-15	15.0 mm
36 - 43 mm	SCE16-12	SCE24-12	12.0 mm

Electrodes for SATFX-76 when using the accessory SSEDX

Tube OD / \varnothing of the Tube	Electrode Product Code $\varnothing 1.6$	Electrode Product Code $\varnothing 2.4$	Electrode length
06 - 09 mm	SCE16-41	SCE24-41	41.0 mm
09 - 16 mm	SCE16-37.5	SCE24-37.5	37.5 mm
16 - 23 mm	SCE16-34	SCE24-34	34.0 mm
23 - 30 mm	SCE16-30.5	SCE24-30.5	30.5 mm
30 - 37 mm	SCE16-27	SCE24-27	27.0 mm
33 - 40 mm	SCE16-25.5	SCE24-25.5	25.5 mm
35 - 42 mm	SCE16-24.5	SCE24-24.5	24.5 mm
40 - 47 mm	SCE16-22	SCE24-22	22.0 mm
42 - 49 mm	SCE16-21	SCE24-21	21.0 mm
44 - 51 mm	SCE16-20	SCE24-20	20.0 mm

Orbital welding (Closed head) - Consumables

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INNOVATIVE ORBITAL SOLUTIONS

Electrodes when using the accessory SSEDX

Electrodes for SATFX-76 when using the accessory SSEDX

Tube OD / \varnothing of the Tube	Electrode Product Code $\varnothing 1.6$	Electrode Product Code $\varnothing 2.4$	Electrode length
46 - 53 mm	SCE16-19	SCE24-19	19.0 mm
47 - 54 mm	SCE16-18.5	SCE24-18.5	18.5 mm
48 - 55 mm	SCE16-18	SCE24-18	18.0 mm
49 - 56 mm	SCE16-17.5	SCE24-17.5	17.5 mm
54 - 61 mm	SCE16-15	SCE24-15	15.0 mm
60 - 67 mm	SCE16-12	SCE24-12	12.0 mm
SATFX-52		✓ SATFX-76	SATFX-115

NEW Electrodes for SATFX-115 when using the accessory SSEDX

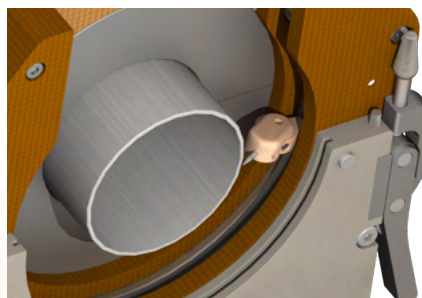
Tube OD / \varnothing of the Tube	Electrode Product Code $\varnothing 1.6$	Electrode Product Code $\varnothing 2.4$	Electrode length
12 - 14 mm	SCE16-58.5	SCE24-58.5	58.5 mm
14 - 21 mm	SCE16-55	SCE24-55	55.0 mm
21 - 28 mm	SCE16-51.5	SCE24-51.5	51.5 mm
28 - 35 mm	SCE16-48	SCE24-48	48.0 mm
35 - 42 mm	SCE16-44.5	SCE24-44.5	44.5 mm
42 - 49 mm	SCE16-41	SCE24-41	41.0 mm
49 - 56 mm	SCE16-37.5	SCE24-37.5	37.5 mm
56 - 63 mm	SCE16-34	SCE24-34	34.0 mm
63 - 70 mm	SCE16-30.5	SCE24-30.5	30.5 mm
70 - 77 mm	SCE16-27	SCE24-27	27.0 mm
73 - 80 mm	SCE16-25.5	SCE24-25.5	25.5 mm
75 - 82 mm	SCE16-24.5	SCE24-24.5	24.5 mm
80 - 87 mm	SCE16-22	SCE24-22	22.0 mm
82 - 89 mm	SCE16-21	SCE24-21	21.0 mm
84 - 91 mm	SCE16-20	SCE24-20	20.0 mm
86 - 93 mm	SCE16-19	SCE24-19	19.0 mm
87 - 94 mm	SCE16-18.5	SCE24-18.5	18.5 mm
88 - 95 mm	SCE16-18	SCE24-18	18.0 mm
89 - 96 mm	SCE16-17.5	SCE24-17.5	17.5 mm
94 - 101 mm	SCE16-15	SCE24-15	15.0 mm
100 - 107 mm	SCE16-12	SCE24-12	12.0 mm
SATFX-52		SATFX-76	✓ SATFX-115

Orbital welding (Closed head) - Consumables

Electrodes when using the accessory SSEIX

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INNOVATIVE ORBITAL SOLUTIONS



SSEIX : Inclined electrode holder for $\varnothing 1.6$ mm and $\varnothing 2.4$ mm electrodes.

If you use this system, the usable diameter range of the tube is reduced.



Electrodes for SATFX-52 when using the accessory SSEIX

Tube OD / \varnothing of the Tube 0° inclined	Tube OD / \varnothing of the Tube 15° inclined	Tube OD / \varnothing of the Tube 30° inclined	Tube OD / \varnothing of the Tube 45° inclined	Electrode Product Code $\varnothing 1.6$	Electrode Product Code $\varnothing 2.4$	Electrode length
-	-	-	6,00 - 12,61 mm	SCE16-27	SCE24-27	27 mm
-	-	-	7,73 - 14,73 mm	SCE16-25.5	SCE24-25.5	25,5 mm
-	-	-	9,14 - 16,14 mm	SCE16-24.5	SCE24-24.5	24,5 mm
-	-	-	12,68 - 19,68 mm	SCE16-22	SCE24-22	22 mm
-	-	6,00 - 12,38 mm	14,09 - 21,09 mm	SCE16-21	SCE24-21	21 mm
-	-	7,11 - 14,11 mm	15,50 - 22,50 mm	SCE16-20	SCE24-20	20 mm
-	-	8,85 - 15,85 mm	16,92 - 23,92 mm	SCE16-19	SCE24-19	19 mm
-	-	9,71 - 16,71 mm	17,63 - 24,63 mm	SCE16-18.5	SCE24-18.5	18,5 mm
-	6,00 - 12,70 mm	10,58 - 17,58 mm	18,33 - 25,33 mm	SCE16-18	SCE24-18	18 mm
6,00 - 12,50 mm	6,67 - 13,67 mm	11,44 - 18,44 mm	19,04 - 26,04 mm	SCE16-17.5	SCE24-17.5	17,5 mm
10,50 - 17,50 mm	11,50 - 18,50 mm	15,77 - 22,77 mm	22,58 - 29,58 mm	SCE16-15	SCE24-15	15 mm
16,5 - 23,5 mm	17,29 - 24,29 mm	20,97 - 27,97 mm	26,82 - 33,82 mm	SCE16-12	SCE24-12	12 mm

✓ SATFX-52

SATFX-76

SATFX-115

For special application only - Outside standard machine template

For application with jaws for flanges only

Orbital welding (Closed head) - Consumables

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INNOVATIVE ORBITAL SOLUTIONS

Electrodes when using the accessory SSEIX

Electrodes for SATFX-76 when using the accessory SSEIX

Tube OD / ø of the Tube 0° inclined	Tube OD / ø of the Tube 15° inclined	Tube OD / ø of the Tube 30° inclined	Tube OD / ø of the Tube 45° inclined	Electrode Product Code ø1.6	Electrode Product Code ø2.4	Electrode length
-	-	-	9,83 - 16,83 mm	SCE16-41	SCE24-41	41 mm
-	-	-	14,78 - 21,78 mm	SCE16-37.5	SCE24-37.5	37,5 mm
-	-	6,89 - 13,89 mm	19,73 - 26,73 mm	SCE16-34	SCE24-34	34 mm
6 - 10,5 mm	6,00 - 12,57 mm	12,95 - 19,95 mm	24,68 - 31,68 mm	SCE16-30.5	SCE24-30.5	30,5 mm
10,5 - 17,5 mm	12,34 - 19,34 mm	19,01 - 26,01 mm	29,63 - 36,63 mm	SCE16-27	SCE24-27	27 mm
13,5 - 20,5 mm	15,23 - 22,23 mm	21,61 - 28,61 mm	31,75 - 38,75 mm	SCE16-25.5	SCE24-25.5	25,5 mm
15,5 - 22,5 mm	17,17 - 24,17 mm	23,34 - 30,34 mm	33,16 - 40,16 mm	SCE16-24.5	SCE24-24.5	24,5 mm
20,5 - 27,5 mm	22,00 - 29,00 mm	27,67 - 34,67 mm	36,70 - 43,70 mm	SCE16-22	SCE24-22	22 mm
22,5 - 29,5 mm	23,93 - 30,93 mm	29,40 - 36,40 mm	38,11 - 45,11 mm	SCE16-21	SCE24-21	21 mm
24,5 - 31,5 mm	25,86 - 32,86 mm	31,13 - 38,13 mm	39,52 - 46,52 mm	SCE16-20	SCE24-20	20 mm
26,5 - 33,5 mm	27,79 - 34,79 mm	32,87 - 39,87 mm	40,94 - 47,94 mm	SCE16-19	SCE24-19	19 mm
27,5 - 34,5 mm	28,76 - 35,76 mm	33,73 - 40,73 mm	41,65 - 48,65 mm	SCE16-18.5	SCE24-18.5	18,5 mm
28,5 - 35,5 mm	29,72 - 36,72 mm	34,60 - 41,60 mm	42,35 - 49,35 mm	SCE16-18	SCE24-18	18 mm
29,5 - 36,5 mm	30,69 - 37,69 mm	35,46 - 42,46 mm	43,06 - 50,06 mm	SCE16-17.5	SCE24-17.5	17,5 mm
34,5 - 41,5	35,52 - 42,52 mm	39,79 - 46,79 mm	46,60 - 53,60 mm	SCE16-15	SCE24-15	15 mm
40,5 - 47,5 mm	41,31 - 48,31 mm	44,99 - 51,99 mm	50,84 - 57,84 mm	SCE16-12	SCE24-12	12 mm
SATFX-52			✓ SATFX-76	SATFX-115		

For special application only - Outside standard machine template

For application with jaws for flanges only



Join experience

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Orbital welding (Closed head) - Consumables

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INNOVATIVE ORBITAL SOLUTIONS

Electrodes when using the accessory SSEIX

Electrodes for SATFX-115 when using the accessory SSEIX

NEW

Tube OD / ø of the Tube 0° inclined	Tube OD / ø of the Tube 15° inclined	Tube OD / ø of the Tube 30° inclined	Tube OD / ø of the Tube 45° inclined	Electrode Product Code ø1.6	Electrode Product Code ø2.4	Electrode length
-	-	-	20,13 - 27,13 mm	SCE16-62	SCE24-62	62 mm
-	-	-	25,08 - 32,08 mm	SCE16-58.5	SCE24-58.5	58,5 mm
-	-	10,51 - 17,51 mm	30,03 - 37,03 mm	SCE16-55	SCE24-55	55 mm
-	-	16,57 - 23,57 mm	34,98 - 41,98 mm	SCE16-51.5	SCE24-51.5	51,5 mm
12 - 15,5 mm	12,00 - 18,77 mm	22,64 - 29,64 mm	39,93 - 46,93 mm	SCE16-48	SCE24-48	48 mm
15,5 - 22,5 mm	18,53 - 25,53 mm	28,70 - 35,70 mm	44,88 - 51,88 mm	SCE16-44.5	SCE24-44.5	44,5 mm
22,5 - 29,5 mm	25,29 - 32,29 mm	34,76 - 41,76 mm	49,83 - 56,83 mm	SCE16-41	SCE24-41	41 mm
29,5 - 36,5 mm	32,05 - 39,05 mm	40,82 - 47,82 mm	54,78 - 61,78 mm	SCE16-37.5	SCE24-37.5	37,5 mm
36,5 - 43,5 mm	38,81 - 45,81 mm	46,89 - 53,89 mm	59,73 - 66,73 mm	SCE16-34	SCE24-34	34 mm
43,5 - 50,5 mm	45,57 - 52,57 mm	52,95 - 59,95 mm	64,68 - 71,68 mm	SCE16-30.5	SCE24-30.5	30,5 mm
50,5 - 57,5 mm	52,34 - 59,34 mm	59,01 - 66,01 mm	69,63 - 76,63 mm	SCE16-27	SCE24-27	27 mm
53,5 - 60,5 mm	55,23 - 62,23 mm	61,61 - 68,61 mm	71,75 - 78,75 mm	SCE16-25.5	SCE24-25.5	25,5 mm
55,5 - 62,5 mm	57,17 - 64,17 mm	63,34 - 70,34 mm	73,16 - 80,16 mm	SCE16-24.5	SCE24-24.5	24,5 mm
60,5 - 67,5 mm	62,00 - 69,00 mm	67,67 - 74,67 mm	76,70 - 83,70 mm	SCE16-22	SCE24-22	22 mm
62,5 - 69,5 mm	63,93 - 70,93 mm	69,40 - 76,40 mm	78,11 - 85,11 mm	SCE16-21	SCE24-21	21 mm

SATFX-52

SATFX-76

✓ SATFX-115

For special application only - Outside standard machine template

For application with jaws for flanges only



Join experience

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Orbital welding (Closed head) - Consumables

Electrodes when using the accessory SSEIX

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Electrodes for SATFX-115 when using the accessory SSEIX

Tube OD / ø of the Tube 0° inclined	Tube OD / ø of the Tube 15° inclined	Tube OD / ø of the Tube 30° inclined	Tube OD / ø of the Tube 45° inclined	Electrode Product Code ø1.6	Electrode Product Code ø2.4	Electrode length
64,5 - 71,5 mm	65,86 - 72,86 mm	71,13 - 78,13 mm	79,52 - 86,52 mm	SCE16-20	SCE24-20	20 mm
66,5 - 73,5 mm	67,79 - 74,79 mm	72,87 - 79,87 mm	80,94 - 87,94 mm	SCE16-19	SCE24-19	19 mm
67,5 - 74,5 mm	68,76 - 75,76 mm	73,73 - 80,73 mm	81,65 - 88,65 mm	SCE16-18.5	SCE24-18.5	18,5 mm
68,5 - 75,5 mm	69,72 - 76,72 mm	74,60 - 81,60 mm	82,35 - 89,35 mm	SCE16-18	SCE24-18	18 mm
69,5 - 76,5 mm	70,69 - 77,69 mm	75,46 - 82,46 mm	83,06 - 90,06 mm	SCE16-17.5	SCE24-17.5	17,5 mm
74,5 - 81,5 mm	75,52 - 82,52 mm	79,79 - 86,79 mm	86,60 - 93,60 mm	SCE16-15	SCE24-15	15 mm
80,5 - 87,5 mm	81,31 - 88,31 mm	84,99 - 91,99 mm	90,84 - 97,84 mm	SCE16-12	SCE24-12	12 mm

SATFX-52

SATFX-76

✓ SATFX-115

For special application only - Outside standard machine template

For application with jaws for flanges only



Orbital welding (Open head)

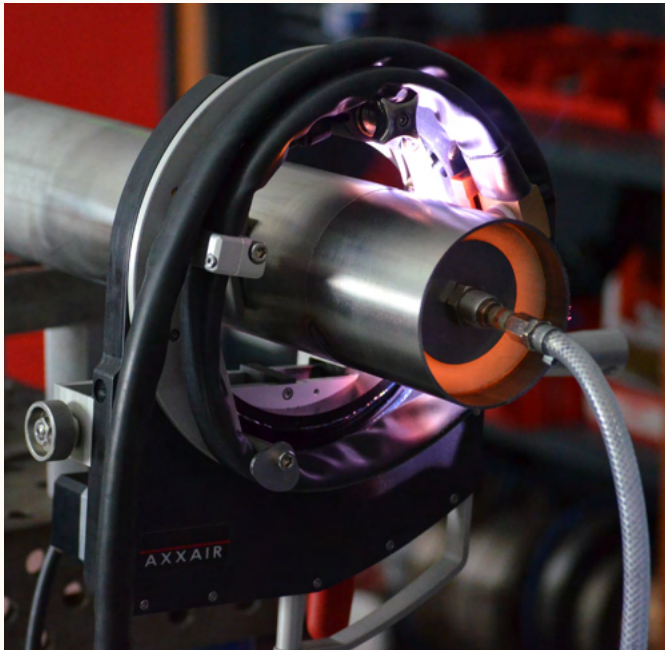
AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Our range of open welding heads (SATO series) allows you to make very high quality welds in a minimal space.

On these heads you will find a mechanical tracking system to keep a constant arc height. The torch can tilt to weld at an angle.

Open heads are mainly recommended for the agro-food, pharmaceutical, chemical sectors, for wall thicknesses less than but also greater than 3 mm.



This type of machine can be used to weld carbon steel tubes.

Open heads offer very wide welding possibilities thanks to the inclination of the torch and the addition of filler metal. The clamping range is achieved without the addition of jaws.

The tracking system is by roller so as not to scratch the tube. All the parts in contact with the tube are made of stainless steel so as not to contaminate it.

With its unique symmetrical clamping system, its stepping motor control, this range offers a very wide range of use.

You can choose between a water or air cooled torch .

FLEXIBILITY, PRODUCTIVITY

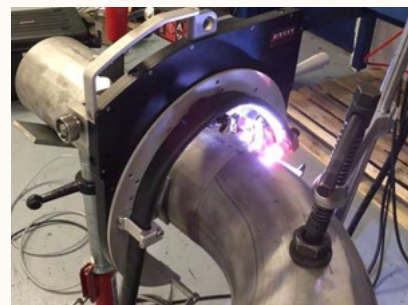
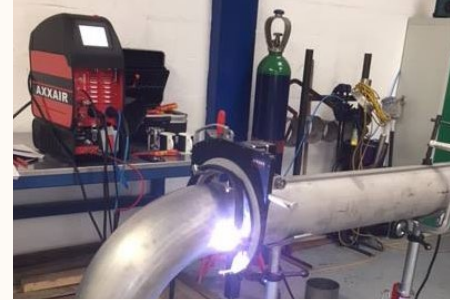
AXXAIR open heads are available with or without filler metal. They have an optimized rotation sweep and 2 positions of feed motor to choose from. High duty cycle (water cooled torch), transport of welding equipment by air (air cooled torch).

QUALITY AND REPEATABILITY

The SATO range is connected to our orbital generators, which permanently control all the welding parameters, guaranteeing repeatable and quality welds.

PORTABILITY

In order to allow you to weld in restrictive conditions and locations, the size of rotating elements and the weight of the machines have been optimized. Our machines are supplied with integrated remote control and 5 m welding cable allowing the operator to work remotely from the power source.



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!





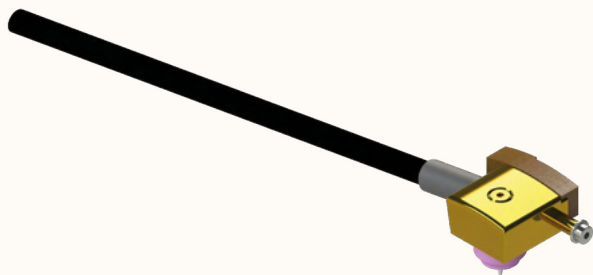
Orbital welding

AIR cooling or WATER cooling?

Why choose an AIR cooled machine?

Strong demand from construction sites requiring the shipment of the machines as air freight has led us to propose a solution without liquid coolant. The latter may also be suitable for frequent and rough/harsh transport, in order to eliminate any risk of liquid flowing onto the electronic boards.

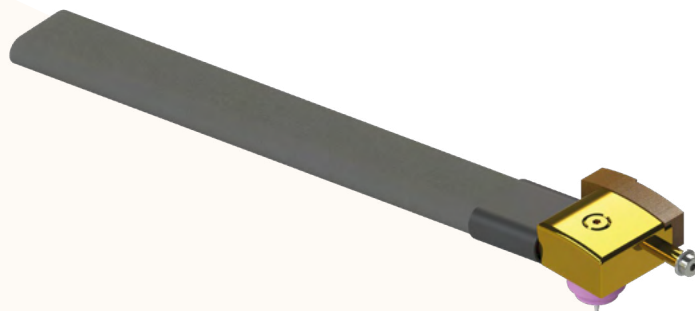
Since the AIR duty cycle is smaller than that for WATER, it is essential not to exceed the recommendations listed below.



Why choose a WATER cooled machine?

WATER cooling is the most used for all types of applications. It is distinguished especially by the fact of being able to realize several consecutive welds.

It significantly improves the duty cycle especially for demanding applications.



Model	100% Duty cycle
SATO-XXE41/42 (WATER)	200 A
SATO-XXE43/44 (AIR)	100 A

Welding machine duty cycle defines the time of use in arc welding and the cooling time required between two welding operations at 40 °C.

Example: A 70% duty cycle at 150 amps = 7 min max use at 150 amperes + 3 minutes waiting time to restart a welding cycle.

The duty cycle therefore has a significant impact on the machine use cycle. For applications requiring a high duty cycle, the welding machine must be able to meet these requirements.

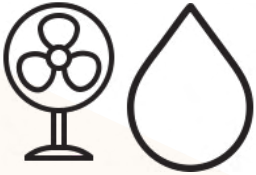
Since AXXAIR hardware is designed to be scalable, it is simple to switch from a water version to an air version.



SATO-40 - 80 - 115 - 170 - 220

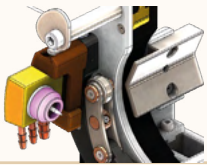
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INNOVATIVE ORBITAL SOLUTIONS

Air Cooled or Water Cooled



Roller mechanical profile tracking

Constant arc voltage without marking the tube

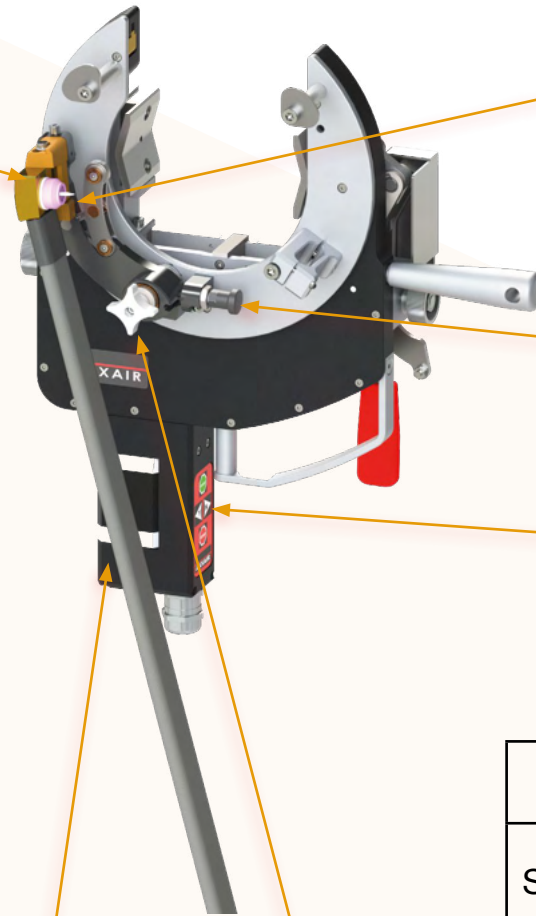
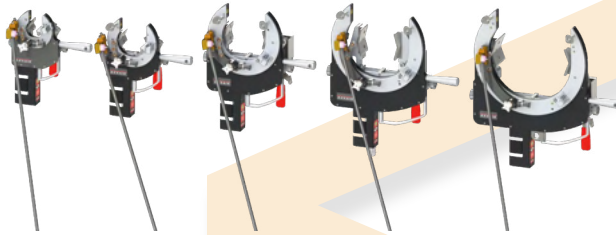


Compatible with the SAXX power sources



Transport

These heads are delivered in their individual transport case

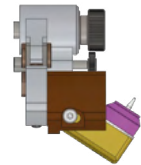


Protection

High protection against arcing outside the electrode

Torch angle adjustment

Welding flanges and short T angle

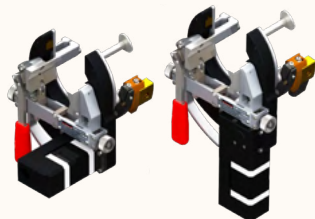


Locked open position

Motorization with encoder

Allows STARTING IN ALL ANGULAR electrode positions

Straight or Angled motor
Symmetrical clamping



Axial Adjustment

Wheel for axial adjustment of the position of the electrode

Welding range	
SATO 40	∅ 10 - ∅ 40 mm 0.4 - 1.5 "
SATO 80	∅ 19 - ∅ 80 mm 0.75 - 3 "
SATO 115	∅ 19 - ∅ 115 mm 0.75 - 4.5 "
SATO 170	∅ 25 - ∅ 170 mm 1 - 6.625 "
SATO 220	∅ 38 - ∅ 220 mm 1.5 - 8.265 "



SATO-40 - 80 -115 - 170 -220



Technical characteristics:

- WATER or AIR cooled head
- Mechanical profile tracking: constant arc height without marking the tube
- Quick symmetrical tightening by lever
- Motorization with encoder: allows starting from any angular position of the electrode
- Wide diameter range
- Inclination and axial adjustment of the electrode
- Small rotation sweep from the centre of the tube
- Compact design

Choice of two different models (to choose according to your applications)

SATO-xxE42 (water cooled) and SATO-xxE44 (air cooled)

Angled output motor

SATO-XXE41 (water cooled) and SATO-xxE43 (air cooled)

Straight output motor

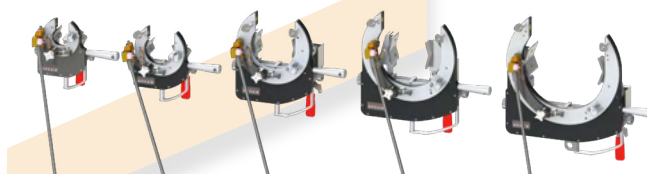
	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm
SATO-40	169	183 to 191	142	116 to 126	57 to 67	13	Ø140	270	113 to 121
SATO- 80	181	186 to 196	160	116 to 126			Ø180	279	
SATO-115	265	186 to 196	230	133 to 143			Ø224	363	
SATO-170	312	186 to 196	290	133 to 143			Ø294	410	
SATO-220	353	186 to 196	350	133 to 143			Ø350	451	



SATO-40 - 80 - 115 - 170 - 220

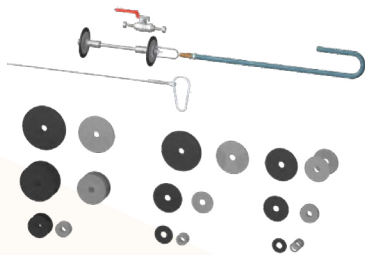
AXXAIR

INNOVATIVE ORBITAL SOLUTIONS



Motor	Cooling	Product Code	Welding machine for tubes of the following diameters (in mm)	Net weight	Dimensions (AxBxC in mm)
Angled motor	WATER	SATO-40E42	∅ 10 - ∅ 40 mm	3.8 kg	169 x 183 x 142
		SATO-80E42	∅ 19 - ∅ 80 mm	4.2 kg	181 x 186 x 160
		SATO-115E42	∅ 19 - ∅ 115 mm	6.7 kg	265 x 186 x 230
		SATO-170E42	∅ 25 - ∅ 170 mm	8 kg	312 x 186 x 290
		SATO-220E42	∅ 38 - ∅ 220 mm	9.4 kg	353 x 186 x 350
	AIR	SATO-40E44	∅ 10 - ∅ 40 mm	3.8 kg	169 x 183 x 142
		SATO-80E44	∅ 19 - ∅ 80 mm	4.2 kg	181 x 186 x 160
		SATO-115E44	∅ 19 - ∅ 115 mm	6.7 kg	265 x 186 x 230
		SATO-170E44	∅ 25 - ∅ 170 mm	8 kg	312 x 186 x 290
		SATO-220E44	∅ 38 - ∅ 220 mm	9.4 kg	353 x 186 x 350
Straight Motor	WATER	SATO-40E41	∅ 10 - ∅ 40 mm	3.8 kg	169 x 191 x 142
		SATO-80E41	∅ 19 - ∅ 80 mm	4.2 kg	181 x 196 x 160
		SATO-115E41	∅ 19 - ∅ 115 mm	6.7 kg	265 x 196 x 230
		SATO-170E41	∅ 25 - ∅ 170 mm	8 kg	312 x 196 x 290
		SATO-220E41	∅ 38 - ∅ 220 mm	9.4 kg	353 x 196 x 350
	AIR	SATO-40E43	∅ 10 - ∅ 40 mm	3.8 kg	169 x 191 x 142
		SATO-80E43	∅ 19 - ∅ 80 mm	4.2 kg	181 x 196 x 160
		SATO-115E43	∅ 19 - ∅ 115 mm	6.7 kg	265 x 196 x 230
		SATO-170E43	∅ 25 - ∅ 170 mm	8 kg	312 x 196 x 290
		SATO-220E43	∅ 38 - ∅ 220 mm	9.4 kg	353 x 196 x 350

Orbital welding (Open heads) - Accessories



Product Code	Description	Net weight	Packaging (in cm)
SKIF-01	Gas protection KIT	4.5 kg	35 x 30 x 9.5

Gas membrane protection KIT for tubes Ø 40 to 120 mm
- consists of: 9 sets of membranes with washers, 1 gas pipe 6 m, 1 metal cable, 1 ¼ turn gas valve, 1 carabiner

Inerting the tubes during welding allows more gas savings as we only inert the area to be welded.

✓ SATO-40E4x	✓ SATO-80E4x	✓ SATO-115E4x	✓ SATO-170E4x	✓ SATO-220E4x
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Product Code	Description	Net weight	Packaging (in cm)
SKIB-01	Gas protection KIT	1.7 kg	35 x 30 x 9.5

Gas plug protection KIT for tubes Ø 6 to 41 mm
- Consists of: 10 sets of perforated plugs, 1 gas inlet connector, 1 hose Ø 4/6 length 5 metres

Facilitates and accelerates inerting. Avoids the use of adhesive paper.

✓ SATO-40E4x	✓ SATO-80E4x	✓ SATO-115E4x	✓ SATO-170E4x	✓ SATO-220E4x
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Product Code	Description	Net weight	Dimensions (in mm)
SATOB-02B	Two axis wire guide	0.05 kg	51 x 90 x 65

SATO Two axis wire guide:
- For use with the SAXX power sources

✓ SATO-40E4x	✓ SATO-80E4x	✓ SATO-115E4x	✓ SATO-170E4x	✓ SATO-220E4x
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Product Code	Description	Net weight	Dimensions (in cm)
SADF2X	Wire dispenser	12 kg	59.7 x 38.4 x 24

Wire Dispenser for SAXX-200, duct 5 m max:
- Supplied with the SAXX power supply-connection cable and Teflon duct to guide the wire
- Drive pressure adjusted by adjustable spring, with handle.

✓ SATO-40E4x	✓ SATO-80E4x	✓ SATO-115E4x	✓ SATO-170E4x	✓ SATO-220E4x
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Orbital welding (Open heads) - Accessories

5 or 10 metres welding cable extensions



To increase the operating distance between the welding head and the SAXX generator, we offer cable extensions.

The choice of the cable is made according to the cooling of the torch (water or air) and with or without filler metal.

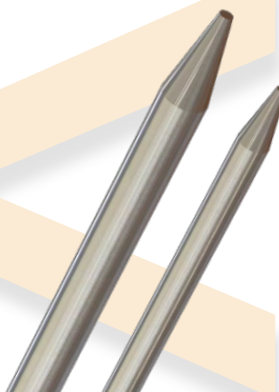
Cooling		Length	Product Code	Net weight	Dimensions (AxBxC in mm)				
AIR	WITHOUT WIRE	5 metres	SAFS-05MAX	7 kg	40 x 59 x 25				
		10 metres	SAFS-10MAX	14 kg	40 x 59 x 25				
	WIRE	5 metres	SAFS-05MAXF	7 kg	40 x 59 x 25				
		10 metres	SAFS-10MAXF	14 kg	40 x 59 x 25				
WATER	WITHOUT WIRE	5 metres	SAFS-05MX	7 kg	40 x 59 x 25				
		10 metres	SAFS-10MX	14 kg	40 x 59 x 25				
	WIRE	5 metres	SAFS-05MXF	7 kg	40 x 59 x 25				
		10 metres	SAFS-10MXF	14 kg	40 x 59 x 25				
✓ SATO-40E4x		✓ SATO-80E4x		✓ SATO-115E4x		✓ SATO-170E4x		✓ SATO-220E4x	



Orbital welding (Open head) - Consumables

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

This increases the life of the electrodes.



Product Code	Description	Net weight	Plastic box (cm)
SCE16-50	Electrodes	0.02 kg	5.5 x 4.5 x 1
Electrode diameter 1.6 mm , length 50mm			
- Box of 10 electrodes			

✓ SATO-40E4x	✓ SATO-80E4x	✓ SATO-115E4x	✓ SATO-170E4x	✓ SATO-220E4x
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Product Code	Description	Net weight	Plastic box (cm)
SCE24-50	Electrodes	0.05 kg	5.5 x 4.5 x 1
Electrode diameter 2.4 mm , length 50mm			
- Box of 10 electrodes			

✓ SATO-40E4x	✓ SATO-80E4x	✓ SATO-115E4x	✓ SATO-170E4x	✓ SATO-220E4x
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Product Code	Description	Net weight	Plastic box (cm)
SKTO-01	Replacement torch	0.3 kg	12 x 17.5 x 4
Replacement kit for open head torch Ø 1.6 mm or Ø 2.4			
- Consists of: 4 long nozzles and 2 short nozzles, 4 electrode clamps, 20 electrodes Ø 1.6 and 20 Ø 2.4 electrodes, 2 Teflon rings, 1 short cap type 9/20 and 1 screw-driver FACOM			

✓ SATO-40E4x	✓ SATO-80E4x	✓ SATO-115E4x	✓ SATO-170E4x	✓ SATO-220E4x
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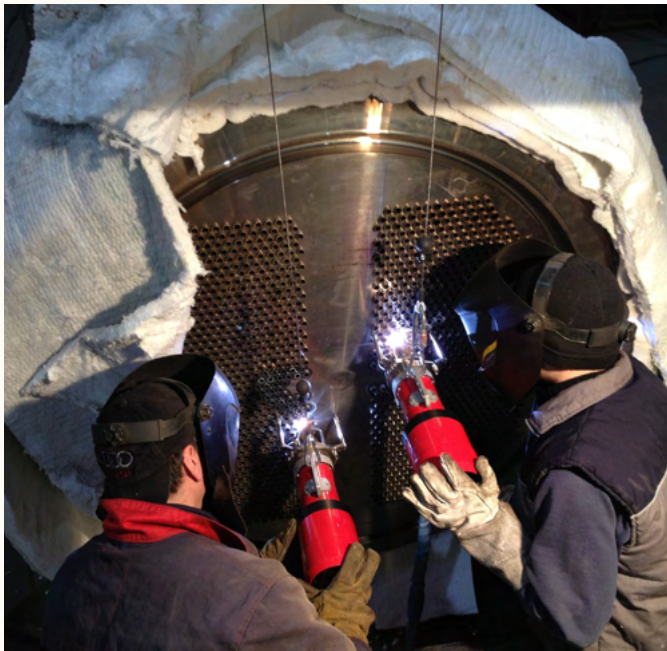


Orbital welding (Tube-to-tube sheet)

Our tube-to-tube sheet welding heads, fully water-cooled, are designed for heat exchanger production applications in various industries such as aeronautics, agri-food or energy production.

Indeed, heat exchangers play an increasingly important role in industry and this welding head allows the economical, reliable and very high quality assembly of the tubes on the plates.

The SATP-80X covers virtually all common tube to tube sheet configurations in both stainless steel, titanium and black steel.



In tube to tube sheet applications, preparation is a very important aspect to guarantee repeatable and quality welding results. The following steps are discussed at each project and are essential to ensure the success of your process:

- Length of the tube in relation to the tube sheet (dressing operation)
- Centring of the tubes on the tube sheet:

This operation consists in bringing the tube into contact with the end of the hole in the tube sheet in order to avoid collapsing associated with the clearance between the tube and tube sheet if this operation is neglected.

Centring machines allow this essential operation. This centring also allows the weld gases to be evacuated through the back of the plate. Centring is often neglected but avoids much inconvenience during production.

FLEXIBILITY, PRODUCTIVITY

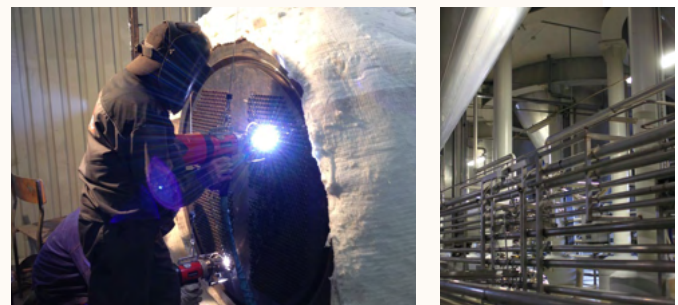
This head can weld in simple fusion or with the supply of wire. The wire feed is mounted on the head (1 kg reel) and rotates with the torch to ensure controlled wire output.

QUALITY AND REPEATABILITY

The specific mandrel of our SATP with centring by balls pushed by springs allows positioning while allowing fast installation and especially ensuring that the head can easily be brought out of the tube in the case of excess internal weld thickness.

PORTABILITY

Portable machines, which are easy to move and usable directly on site.



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

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

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SATP-80X

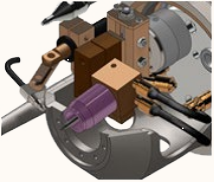
AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

Water Cooled



Tilting head

Water cooled with tilting wire



Mandrel system

Concentric tightening from the inside of the tube

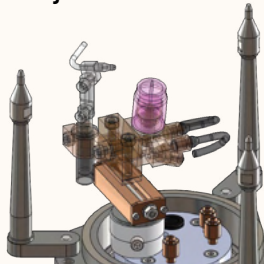


Compatible with the SAXX power sources

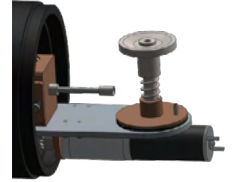


Flexibility

Head and wire adjustment trolley

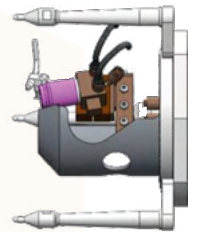


Wire holder 1 kg



Positioning stops

Adjustable stops for better tube sheet stability



Electric motor with wire feed



Welding range

SATP-80X	ø 10 - ø 80 mm 0.4 - 3 "
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SATP-80X

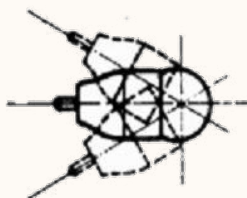
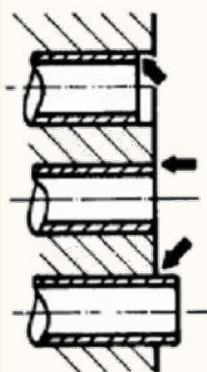
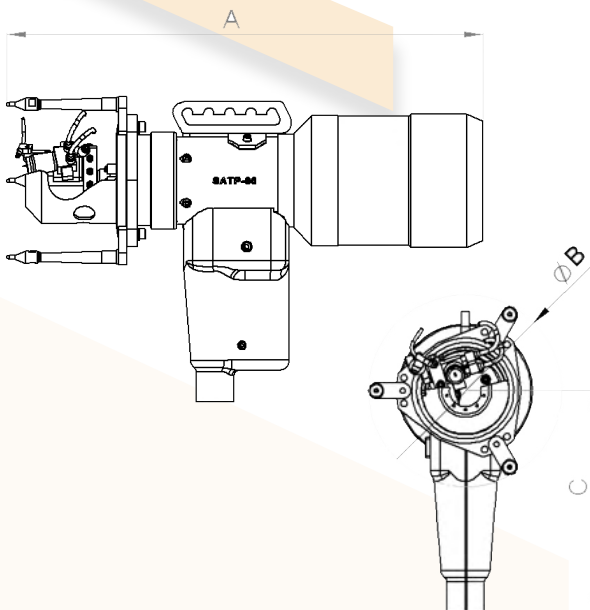


The SATP-80X covers virtually all common tube to tube sheet configurations in stainless steel as well as in titanium or black steel.



Technical characteristics:

- Rotating gas, current and cooling seal
- Tilting water cooled head
- Head and wire adjustment trolley
- Built-in rotating wire dispenser (Ø 0.8 mm)
- Cycle startup integrated in the handle for better ergonomics
- The head is fully cooled allowing a maximum welding current of 200A
- Specific mandrel with ball centring pushed by springs: precise positioning and quick installation.



- 3 tube-to-tube sheet welding configurations
- Outside diameter of the straight torch tube: 12 - 82 mm
- External diameter of the tube if torch tilted at 30° : 12 - 40 mm

Product Code	Description	Net weight (Without reel)	ø wire	Max Wire Speed	Dimensions (AxBxC mm)
SATP-80X	Welding head SATP-80X ø10 to ø78 mm Supplied with wire dispenser	7.5 kg	0.8 mm	200 cm/min	451 x 182 x 210



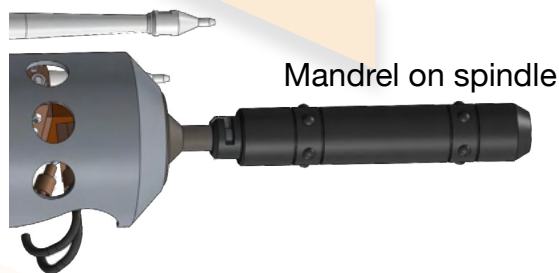
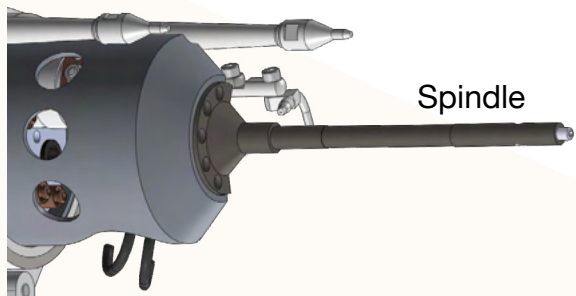
Orbital welding (Tube to tube sheet) - Accessories

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INNOVATIVE ORBITAL SOLUTIONS

The mandrel used must be chosen according to the inner diameter of the tube to be welded to the tube sheet.

Depending on the mandrel used, it will be necessary to choose the compatible spindle.



SATP mandrels		
SATP Centring mandrels:		
Tube inner \varnothing (mm)	Mandrel Product Code	On spindle
9.8 to 10.3 mm	SATP-M11	SATP-B01
10.3 to 10.8 mm	SATP-M12	
10.8 to 11.3 mm	SATP-M13	
11.3 to 11.8 mm	SATP-M14	
11.8 to 12.3 mm	SATP-M15	
12.3 to 13.0 mm	SATP-M16	
12.8 to 14.0 mm	SATP-M21	SATP-B02
13.8 to 15.0 mm	SATP-M22	
14.8 to 16.0 mm	SATP-M23	
15.8 to 17.0 mm	SATP-M24	
16.8 to 18.0 mm	SATP-M25	
17.8 to 19.0 mm	SATP-M26	
18.8 to 20.5 mm	SATP-M27	
19.8 to 22.5 mm	SATP-M28	

✓ SATP-80X



Orbital welding (Tube to tube sheet) - Accessories



SATP mandrels (continued)

SATP Centring mandrels:

Tube inner ϕ in mm	Mandrel Product Code	On spindle
22.3 to 24.8 mm	SATP-M29	SATP-B03
24.5 to 27.0 mm	SATP-M30	
26.5 to 29.0 mm	SATP-M31	
28.5 to 31.0 mm	SATP-M32	
30.5 to 33.0 mm	SATP-M33	
32.5 to 36.0 mm	SATP-M34	
35.5 to 39.0 mm	SATP-M35	
38.5 to 42.0 mm	SATP-M36	
41.5 to 45.0 mm	SATP-M37	
44.5 to 48.0 mm	SATP-M38	
47.5 to 51.0 mm	SATP-M39	SATP-B04
50.5 to 54.0 mm	SATP-M40	
53.5 to 58.0 mm	SATP-M41	
57.5 to 62.0 mm	SATP-M42	
61.5 to 66.0 mm	SATP-M43	
65.5 to 70.0 mm	SATP-M44	
69.5 to 74.0 mm	SATP-M45	
73.5 to 78.0 mm	SATP-M46	

✓ SATP-80X



SATP Spindles

Spindles for SATP mandrel:

Product Code	For Mandrel
SATP-B01	M11 to M16
SATP-B02	M21 to M28
SATP-B03	M29 to M39
SATP-B04	M40 to M46

✓ SATP-80X



Orbital welding (Tube to tube sheet) - Consumables

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

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

This increases the life of the electrodes.



Product Code	Description	Net weight	Plastic box (cm)
SCE24-39.5	Electrodes	0.05 kg	5.5 x 4.5 x 1

Electrodes \varnothing 2.4 mm, length 39.5mm for SATP:

- Box of 10 electrodes

✓ SATP-80X

94



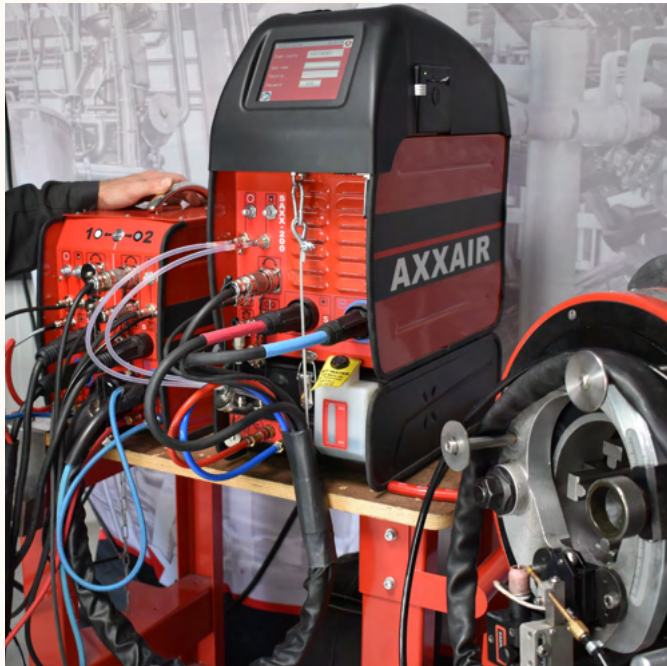
Orbital welding (welding power sources)

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Our AXXAIR orbital power supplies has been designed to be user friendly and intuitive. Our step by step design allows, even beginner, to easily generate programs after only a short learning period, while very advanced functions are available to advance users looking to customize their programs.

A particular attention has been paid to using as much as possible standard industrial components for their reliability and availability. The facilitated access to parts makes our power sources robust and easy for maintenance.



The combination of an easy to use and sturdy package allows you to be competitive and makes this range the best choice for all your current or future projects.

The electronics in charge of piloting the rotors of the welding heads is specifically designed to support various motor type, CD, brushless, stepping motors but also encoders or tachometers, making these power supply one of the most versatile on the market today.

Because our power supply can control most type of motors, we are able to control not only our products but also many of the other products available. Using a 32-pin « quick fit » connector we are able to design several cable adaptor to connect most products available today on our power supply. This great feature allows our customers to use our power supply as a one fits all, reducing the cost of ownership.

FLEXIBILITY, PRODUCTIVITY

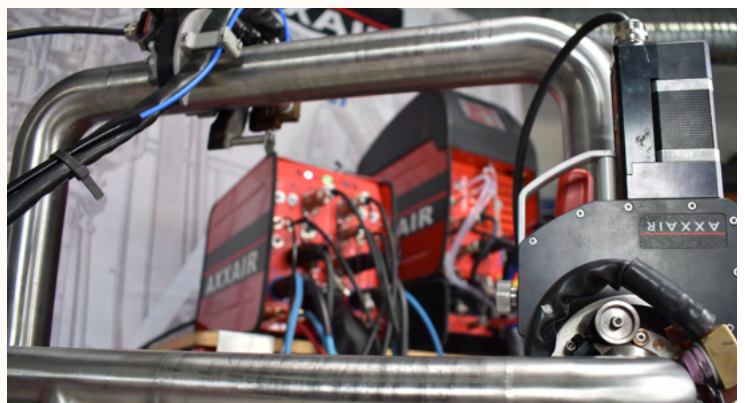
Our latest touch screen interface allows us to make available even the most advanced features in a user friendly and intuitive way.

QUALITY AND REPEATABILITY

Part of the conviviality of our power supply comes from the innovative way we register a program. First you will create a configuration that includes the model and type of welding head, the tube diameter, the tube wall thickness and the tube material. Then within this configuration you will add you programs, up to 10 per configuration. This makes it really easy to retrieve and select a program even if it was created months ago.

PORTABILITY

Our power supply are among the easiest to carry on site or move around the workshop, however if you want to be able to move effortlessly the gas cylinder together with the power supply we designed a very convenient trolley.



Do not hesitate to contact us for all enquiries relating to orbital welding power sources.

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



Join **experience**

www.axxair.com



Orbital welding (welding power sources)

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

Since the launch of our orbital welding power sources SAXX in 2017, **WiFi has been offered as an option** to our customers in order to use the «Remote HMI» application (third party application).

Thanks to this application, combined with the WiFi, remote control of the SAXX with a smartphone, computer or tablet becomes possible.

The wifi option also allows **sending and retrieving data from the SAXX** thanks to a remote access to the power source's USB key.

Access to the USB key's content allows:

- to monitor alarms.
- to retrieve data from the acquisition files.
- to exchange configuration and programs from one power source to another power source from the SAXX range.

AXXAIR is **constantly striving to improve the operator's experience** of our customers. This is why we improved our SAXX power sources.

The new generation of SAXX-200, SAXX-210 and SAXX-300 completely moves into the **Industry 4.0 era** with a new WiFi module and an Ethernet interface to make the operator's work even more efficient.

NEW

New WiFi module

An improved WiFi module with an external antenna will be offered on the new SAXX versions : SAXX-200, 210 and 300.



On the SAXX-200, the antenna is hidden under the power source's cover. It will be visible on the SAXX-210 and 300.

These improvements allow:

- an increased WiFi operating distance: **up to 100 m** depending on the working environment.*
- a better WiFi communication: quality and stability of the data transfer.

*It is important to ensure that there is no obstacle between the SAXX power source and the remote control tool.



NEW

Network interface

From now on, access to the USB key and remote control of the SAXX power sources will also be possible with an **Ethernet network cable**.



All SAXX welding power sources are now equipped as standard with an **Ethernet socket** at the rear of the power sources. It allows **fast connection to an existing computer network** by using a RJ45 of category at least 5 S/STP cable.

In order to operate the SAXX remotely, the «Remote HMI» application is still required. The application is available on App Store, Google Play and Windows.



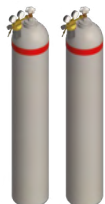
SAXX-200



Fully-assured gas management

2 separate gas lines, free choice of entering gas flow management

- Gas flow control and flow alarms
- Display of the actual flow rate right on the screen



The ergonomic shape of the power source, the water cooler and the carrying handle make transport easy

Interface 5.7 colour touch screen + WiFi

13 languages, possibility of remote control by smartphone or tablet



PPM sensor

Capable of managing thresholds and sending an electrical pulse to the power source in order to start the welding. This ensures a consistently and properly purged welding area

Records PPM variation during the weld



Axis for added metal

Possibility of using Step mode

Removable water colling

Can be separated **without tools** and makes the power source extremely portable

Cooling capacity 700W, flow mini alarm



Data acquisition

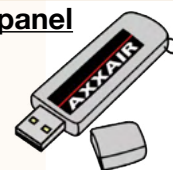
Records the last 999 welds on the USB key

Integrated WeldReport, data's formatting and presenting of the instructions in the form of DMOS.

USB port on front panel

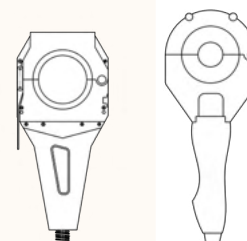
200 programs per USB key, several keys can be used

- Software: Remote update possible
- Sending and retrieving data through remote access to the SAXX's USB key



Compatible with most closed head on the market

AMI, Polysoude, ESAB, Orbitec and Orbitalum



Integrated printer

Printing program and actual parameters



SAXX-200

Technical characteristics

Duty cycle:

230 V		110 V	
25 %	200 A	35 %	140 A
60 %	140 A	60 %	115 A
100 %	115 A	100 %	100 A

Power supply:

- Single phase network **with earth**
- Supply voltage: 110 to 230 V +/-15%
- Input current consumed 23A at 230V and 32A at 110V
- Frequency: 50/60Hz
- Cable supplied: HO7RN-F 3x2.5 mm² black, length 3m

NEW This equipment comes with a 16A plug of type CEE7 / 7 to be connected to a socket protected by a 16A fuse or circuit breaker.

To allow use at maximum conditions or according to the country, it will be necessary to change the setting.

The nameplate of the equipment will allow you to choose the socket and the protection (fuse and / or circuit breaker) adapted to the conditions of use (voltage and current).

Gas supply:

- Maximum inlet pressure: 5 bars
- Maximum flow rate: 50 l / min per gas line
- Inlet connectors: M12x100 male
- Outlet connectors: female blanking union Series 20

Technology:

- Colour touch screen 5.7"
- 13 languages
- Up to 16 users with passwords and custom permissions
- Simple and intuitive programming with automatic parameter calculation and programming
- 200 programs in 20 sectors maximum / key



AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

Intelligence:

- Alarms: More than 30 alarms to protect the system and check that welding is normal.
- Welding voltage measured in increments of 0.1 A
- Minimum pulse time of 50 ms

Auxiliary connector:

- Possibility of triggering the welding start via an oxygen meter (dry contact)

Wi-fi: (Option)

Remote control of the screen on smartphone or tablet via an application
Range: 20 to 30 m

Cooling connector:

For SCOOOL-700 cooler only: It must be connected to the SAXX-200 to operate (No standalone operation)

- Max pressure: 5 bars
- Cooling power according to CEI60974-2 standard: 0.7 kW

CAUTION: The power source is delivered without coolant. See "Consumables" to order the 3 liter can (SACW-C006).

Integral printer:

- 32 characters / line
- Print program and actual parameters



SAXX-200



You can order your SAXX-200 power source with the options you need.



Second gas line: This second gas line allows control from the power source of your internal inerting and / or dual gas management of the welding torch.

- Gas saving
- Welding process safety

Wire feed: This option includes the axis board and the connectors. It must be completed by the dispenser (see accessories).

There is the possibility to use the **step mode** and to **synchronize the wire feed** with the current pulse.



WiFi: This option includes a built-in Wifi antenna in the power source.

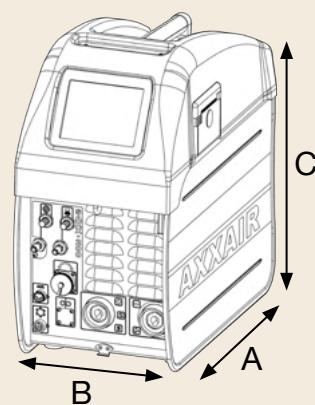
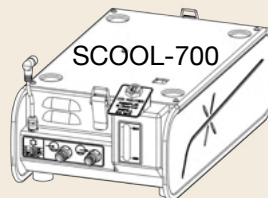
Remote control by a smartphone, computer or tablet to use it as a remote control is possible.

In fact, through an application, you have access to all functions including programming. The option also allows **sending and retrieving data** from the SAXX through access to the power source's USB key. Range: **up to 100m**



Water cooler: Removable cooler without tools with a cooling capacity of **700W** with a flow safety sensor. It is essential to use in all water cooled machines.

- Increasing the duty cycle



Description	Product code	Cooled	Gas line	Second gas line	Wire feed	Wifi Antenna	Net weight	Dimensions AxBxC
Orbital TIG welding power source, 200A, autoline	SAXX-200	AIR	x				21 kg	468 mm x 249 mm x 482 mm
	SAXX-200I	AIR	x			x	21 kg	
	SAXX-200W	AIR	x		x		21 kg	
	SAXX-200DG	AIR	x	x			21 kg	
	SAXX-200IW	AIR	x		x	x	21 kg	
	SAXX-200DGI	AIR	x	x		x	21 kg	
	SAXX-200DGW	AIR	x	x	x		21 kg	
	SAXX-200DGIW	AIR	x	x	x	x	21 kg	
	SCOOL-700	Water cooler (700W)	Essential to the use of all water cooled machines. Compatible with all SAXX models listed above				8 kg	468 mm x 249 mm x 146 mm

All options must be mounted at AXXAIR.



SAXX-210

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS



Fully-assured gas management

2 separate gas lines, free choice of inerting gas flow management



Gas flow control and flow alarms

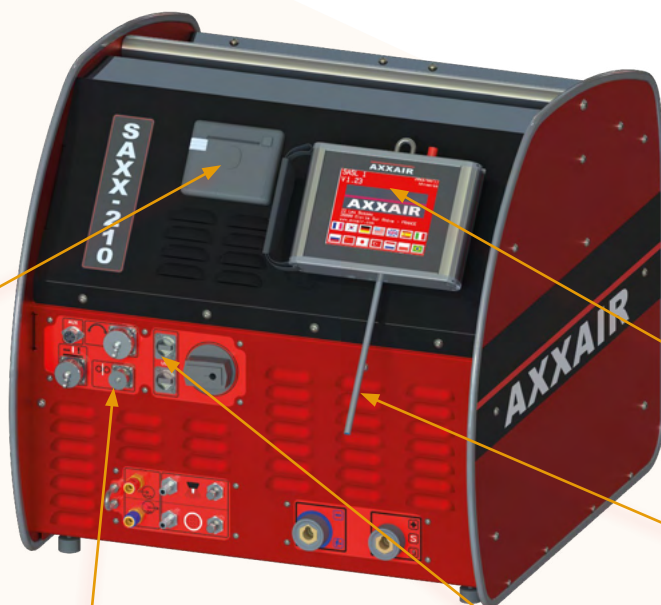
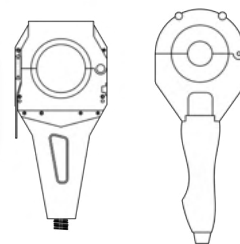
Display of the actual flow rate right on the screen

Water cooled



Compatible with most closed head on the market

AMI, Polysoude, ESAB, Orbitec and Orbitalum



Interface 5.7 colour touch screen + WiFi

13 languages, possibility of remote control by smartphone or tablet



Integrated printer

Printing program and actual parameters

Remove control display

4 m long cable

PPM sensor

Capable of managing thresholds and sending an electrical pulse to the power source in order to start the welding. This ensures a consistently and properly purged welding area

Records PPM variation during the weld



Axis for added metal

Possibility of using Step mode

Data acquisition

Records the last 999 welds on the USB key

Integrated WeldReport, data's formatting and presenting of the instructions in the form of DMOS.

USB port on front panel

200 programs per USB key, several keys can be used

- Software: Remote update possible
- Sending and retrieving data through remote access to the SAXX's USB key



SAXX-210



Technical characteristics:

Duty cycle:

230 V		110 V	
50 %	210 A		
60 %	180 A	60 %	127 A.
100 %	160 A	100 %	110 A.

Power supply:

- Single phase network **with earth**
- Supply voltage: 110 to 230 V +/-15%
- Input current consumed 25A at 230V and 32A at 110V
- Frequency: 50 / 60Hz
- Cable supplied: HO7RN-F 3x2.5 mm² black length 3m

Gas supply:

- Maximum inlet pressure: 5 bars
- Maximum flow rate: 50 l / min per gas line
- Inlet connectors: M12x100 male
- Outlet connectors: female blanking union Series 20

Technology:

- Colour touch screen 5"
- 13 languages
- Up to 16 users with passwords and custom permissions
- Simple and intuitive programming with automatic parameter calculation and programming assistance
- 200 programs in 20 sectors maximum / key

Intelligence:

- Alarms: More than 30 alarms to protect the system and check that welding is normal.
- Welding voltage measured in increments of 0.1 A
- Minimum pulse time of 50 ms (modifiable via "operator dynamics")

Integrated printer:

- 32 characters / line
- Print program and actual parameters

Auxiliary connector:

- Possibility of triggering the welding start via an oxygen meter (dry contact).

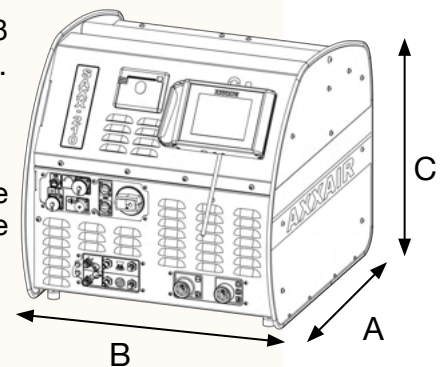
Cooling connector:

- Max pressure: 5 bars
- Cooling power according to standard CEI60974-2: 1.4 kW
- Liquid connectors: female blanking union Series 21

CAUTION: The power source is delivered without coolant. See "Consumables" to order the 3 liter can (SACW-C006).

Wi-fi: (Option)

Remote control of the screen on smartphone or tablet via an application
Range: 20 to 30 m



Product code	Description	Two gas lines	Wire feed	Wifi Antenna	Net weight	Dimensions AxBxC (in mm)
SAXX-210	Orbital TIG welding power source,	x	x		44 kg	562 x
SAXX-210I	210A, autoline, Water cooled	x	x	x	44 kg	620 x 545

All options must be mounted at AXXAIR.



Orbital welding (SAXX) - Accessories



Product Code	Description	Net weight	Dimensions (in cm)
SACG-X200	Trolley	22 kg	117 x 51 x 57

Trolley for SAXX-200 power source:

- Module for transporting the SAXX-200 and gas cylinders up to 10.5 m³

✓ SAXX-200

SAXX-210



Product Code	Description	Net weight	Dimensions (in cm)
SAGC-300	Trolley	55 kg	83 x 56 x 118

Trolley for SAXX-210 power source:

- Module for transporting the SAXX-210 and gas cylinders up to 10.5 m³

SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Dimensions (in cm)
SPPM-10	PPM reader	2 kg	12 x 6 x 15

PPM reader compatible with SAXX power sources:

- Integrated pump
- Trigger threshold adjustment
- Upper and lower tolerance adjustment
- Connected to the SAXX, it only allows welding to be triggered when the threshold is reached. The SPPM-10 guarantees the interior inerting of the tubing and the desired good colouration

Product Code	Description	Net weight	Dimensions (in cm)
SPPM-C10	Extension cable for SPPM-10	0.5 kg	40 x 59 x 25 cm

10 meter-extension cable for SPPM-10 (PPM reader)

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Dimensions (in cm)
SAFS-G01	Gas splitter pipe	0.2 kg	22 x 22 x 22

Gas splitter pipe:

- For connecting the back and front purge gas to the same cylinder. To be used in combination with a pressure regulator for an industrial gas cylinder.

✓ SAXX-200

✓ SAXX-210



NEW

Accessories SAXX Switchbox



AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

You have repeatable welds to perform and you want to **optimize the cycle time** of your welding operations to be **more efficient** and **increase productivity**?
The new AXXAIR Switch Box is the ideal response!

The Switchbox allows it to use two welding machines with one only orbital welding power source of the SAXX series and to use the two machines alternatively.
The parts that need to be welded can be positioned in one of the two machines while the other one is making a weld. The preparation and setting up time of the parts is thus optimized.
Once the weld is finished, the weld on the other machine can directly be started. The welded parts can be removed from the first machine and new parts can be placed in this machine.

Switch button

The green LED indicates if switching is possible. Switching is done either by this button, or by the start button of the inactive machine



Led lights

Indicate which machine is selected

Significant time saving, avoiding the simultaneous purchase of two welding power sources

Cost reduction

Intuitive and efficient use thanks to the SAXX interface

Flexibility

- Use of manual torches and ppm reader (SPPM-10)
- Use of two gas lines (depending on options chosen in the SAXX)
- Use of two wire dispensers with 2 machines (depending on options chosen in the SAXX)

Compatibility

Use of **all welding machines** compatible with the SAXX power sources *

Possibility of using 2 different machines with 2 different programs

Two gas lines for each machine

(depending on options chosen in the SAXX)

Gas flow adjustment wheels for each connected machine

SAXX connection

Connection for a welding machine

Connection for a second welding machine

U bolt common for both machines

* excluding AVC/OSC systems



NEW

Accessories SAXX Switchbox



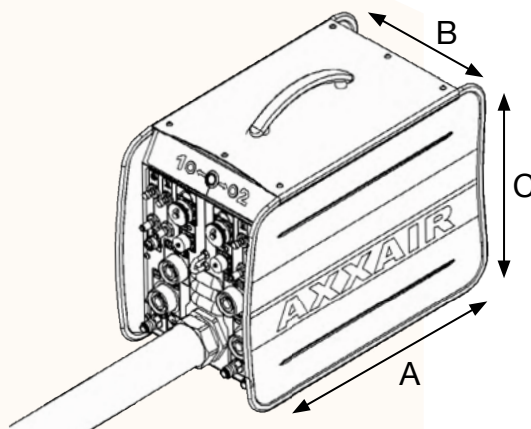
AXXAIR
INNOVATIVE ORBITAL SOLUTIONS



Technical characteristics:

- Power supply 110-230V
- 50-60 Hz (3m cable), 1,9 A max
- Max. welding current: 300A
- Length of the cables between the SASW-DGW and the SAXX: 1,5m
- Cooling circuit common to both machines
- Integrated carry handle
- Possible use of cable extensions (see accessories of welding machines) between the machines and the switchbox
- Version of the SAXX software: V2.40 or higher

- The use of two gas lines is integrated in the SASW-DGW, to be able to use it:
The option «**Second gas line**» must be chosen in the SAXX power source
- The use of wire for one or two machines (two wire feeders can be used):
The option «**Wire feed**» must be chosen in the SAXX power source



Product Code	Description	Net weight	Dimensions (AxBxC)
SASW-DGW	Switchbox	13 kg (with cables)	467 x 247 x 385 mm

Compatible with:

- SATF (SATF-M, SATF-ND and SATF-MI), SATO (SATO-M, SATO-ND and SATO-E), SX, SATP, SXMF
- AML models 8, 9 and 95, Polysoude : UHP, MW and MU IV, Orbitalum : Orbiweld and Orbiweld S, ESAB : PRB, Orbitec : OSW

Product Code	Description
SASW-CCO	Coupling pipe cooling circuit for Switchbox

Allows to control 2 machines with different cooling circuits

✓ SAXX-200

✓ SAXX-210



Orbital welding (SAXX) - Accessories



If you have an AMI orbital welding head, model 8 or 9, you can use them with our SAXX power sources.

To connect the heads to our SAXX power sources, you need an adapter kit. Please choose the kit according to the AMI power source that you have acquired with this head.



Product Code	Description	Net weight	Dimensions
SAFS-ADAMI1	Adapter kit	1.2 kg	l : < 40 cm

Adapter kit for connecting the following heads to SAXX power sources:

- AMI Models 8 and 9, initially connected to the AMI power sources 205, 207, 217 and 217P
- AXXAIR's closed heads SATF-xxMI and SATF-xxMIH

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Dimensions
SAFS-ADAMI2	Adapter kit	1.3 kg	l : < 40 cm

Adapter kit for connecting the following heads to SAXX power sources:

- AMI Models 8 and 9, initially connected to the AMI power source 307

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Dimensions
SAFS-ADAMI3	Adapter kit	1.3 kg	l : < 40 cm

Adapter kit for connecting the following heads to SAXX power sources:

- AMI Models 8 and 9, initially connected to the AMI power sources 227, 327 and 415

✓ SAXX-200

✓ SAXX-210



Orbital welding (SAXX) - Accessories



If you have an orbital welding head from another brand and you want to use it with our SAXX power sources, please refer to the adaptation kits below.



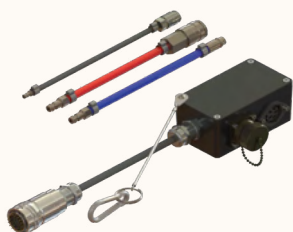
Product Code	Description	Net weight	Dimensions
SAFS-ADORB11	Adapter kit	1.2 kg	L < 50 cm

Adapter kit for connecting the following heads to SAXX power sources:

- Orbitalum ORBITALWELD models : ORBIWELD38S, ORBIWELD76S and ORBIWELD115S

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Dimensions
SAFS-ADPOLY1	Adapter kit	0.9 kg	L < 50 cm

Adapter kit for connecting the following heads to SAXX power sources:

- MW Polysoude models (MW40, MW 65, MW115, MW170, MU IV 38, MU IV 115, UHP250, UHP500 and UHP1500)

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Dimensions
SAFS-ADORBITEC	Adapter kit	0.3 kg	L < 50 cm

Adapter kit for connecting the following heads to SAXX power sources:

- Orbitec models: OSW40, OSW80 and OSW170

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Dimensions
SAFS-ADESAB	Adapter kit	0.5 kg	L < 50 cm

Adapter kit for connecting the following heads to SAXX power sources:

- ESAB models: PRB17-49, PRB33-90 and PRB60-170

✓ SAXX-200

✓ SAXX-210



Orbital welding (SAXX) - Accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS



Product Code	Description	Net weight	Dimensions (in cm)
SAFS-AD01	Adaptor	0.411 kg	l : < 35 cm

Adaptors for connecting the following AXXAIR welding heads to our former **SASL** power sources:

- SATF-xxNDX
- SATF-xxNDHX
- SATO-xxE41 - SATO-xxE42 - SATO-xxE43 - SATO-xxE44

✓ SASL-160, SASL-200, SASL-300



Product Code	Description	Net weight	Dimensions (in cm)
SAFS-AD02	Adaptateur	0.48 kg	l : 35 cm

Adaptors for connecting the former generation of AXXAIR welding heads to **SAXX** power sources:

- SATF-xxND
- SATO-xxE01 et SATO-xxE02

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Dimensions (in cm)
SATDMX-A	TIG Manual torch	2.1kg	22 x 22 x 22

TIG Manual torch **AIR** cooled:

- Allows manual tacking and welding with the SAXX power sources

Product Code	Description	Net weight	Dimensions (in cm)
SATMX-E	TIG Manual torch	2.1kg	22 x 22 x 22

TIG Manual torch **WATER** cooled:

- Allows manual tacking and welding with the SAXX power sources

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Dimensions (in cm)
SADF2X	Wire dispenser	12 kg	59.7 x 38.4 x 24

Wire feeder for SAXX, cable sheath 5 m max:

- Supplied with SAXX power supply-connection cable and teflon sheath to guide the wire
- Drive pressure adjusted by adjustable spring, with handle.

✓ SAXX-200

✓ SAXX-210

Orbital welding (SAXX) - Consumables



Product Code	Description	Net weight	Packaging (in cm)
SACW-CO06	Cooling liquid	3.3kg	15 x 15 x 27
<u>Cooling liquid (3l container).</u> The cooling is not directly delivered with the power source.			

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Packaging (in cm)
SIMP-02	Printer rolls	0.7kg	29 x 9.5 x 5
<u>Rolls for integrated printer (set of 10)</u>			

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Dimensions (in cm)
SUSBX200	USB stick	0.02kg	6 x 2 x 1
<u>USB stick for SAXX-200:</u> USB stick with software for recording welding programmes and the WeldReport			

✓ SAXX-200

SAXX-210



Product Code	Description	Net weight	Dimensions(in cm)
SUSBX210	USB stick	0.02kg	6 x 2 x 1
<u>USB stick for SAXX-210:</u> USB stick with software for recording welding programmes and the WeldReport			

SAXX-200

✓ SAXX-210



Knowing our customers and their needs, anticipating and meeting their expectations by always proposing the best solution: this is AXXAIR's objective. Please do not hesitate to contact us for all enquiries relating to our products and services.

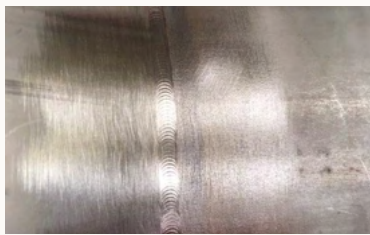
✓ Advice and estimates

Advise and support you and offer the best overall system for your requirements and applications.



✓ Samples

Create your samples as required from your tubes and requirements.



✓ Rental

Rental of our orbital machines from our rental equipment.



✓ Demonstrations

Organize demonstrations on your sites or via video conference from our showroom.



✓ Training

Orbital technology training on your sites or on our own. Leave with your training certificate.



✓ Repairs and maintenance

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