

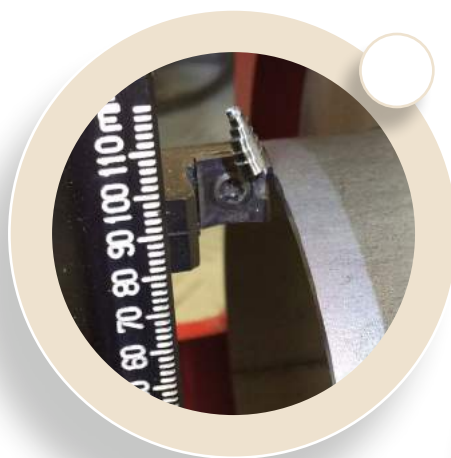
AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Product catalogue

Cutting, facing & orbital welding machines

for thin wall tubes < 3 mm wall thickness



Join **experience**

Frédéric Legrand
- 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.

”

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 pipework 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.



Join **experience**

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

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 of 3 staff.



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



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.

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.

Aeronautics industry

This industry is paying a lot of attention to weight and is therefore using a lot of aluminum 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's orbital cutting

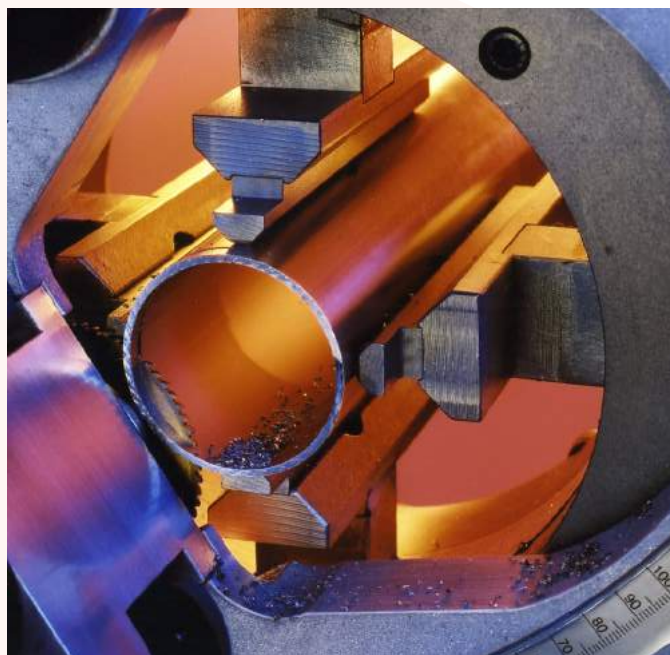
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INNOVATIVE ORBITAL SOLUTIONS

Tube preparation is essential to be able to have quality welding.

An orbital cutting machine allows a cut of high quality thanks to **the saw blade that is turning around the tube.**

The geometry of the thin wall tubes remains, therefore, intact : no tube distortion when clamping (stainless steel concentric jaws) and no deformation due to repetitiveness as the blade follows the tube section.

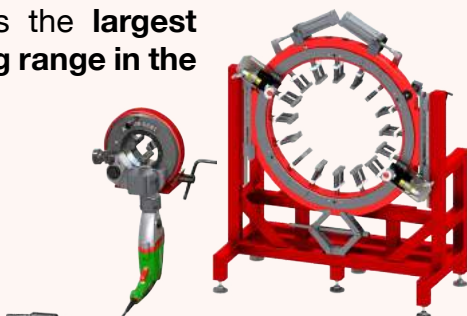


This precision is required for the welding machine to be able to close the seam and to make an adequate welding sealing.

Therefore, orbital cutting is an essential step before automatic 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

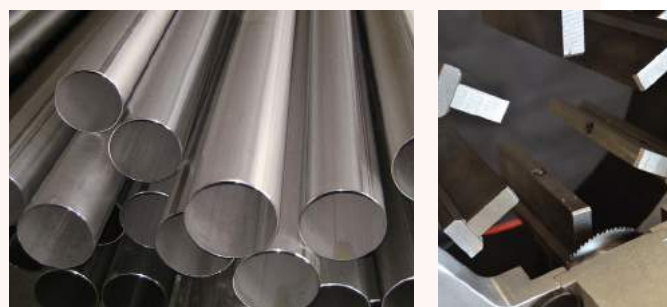
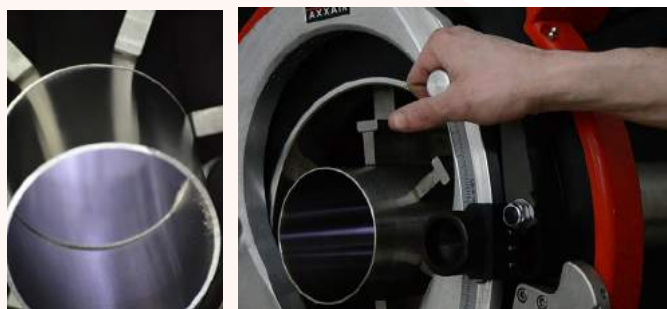
AXXAIR frames (except CC81, CC121ECO and 171ECO) are easily scalable for beveling and welding use.

QUALITY

Cutting with no tube distortion (multi-contacts concentric clamping) ideal for thin wall stainless steel tubes. Geometric cuts (perpendicular cuts <0,25 mm) and a great surface quality (limited burring).

PORTABILITY

Machines easy to carry and move, can be used both on site or in workshop. Ideal preparation for thin stainless steel tubes.



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

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





The ECO Cutting range

81M - 121ECO - 171ECO

For 20 years AXAIR has been developing and offering scalable, flexible and reliable machines with many functions based on a patented concentric clamping system.

The frames of our cutting machines 122 - 322 (page 9-11) can be fitted with a cutting motor, a bevelling motor or with a TIG welding torch.

Our ECO range differs from this concept; it only offers a pipe cutting function for customers searching for alternatives.

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 transport and less heavy

Attractive prices

METABO motorisation offers a large speed range and a torque big enough for thin stainless steel tube applications.

This motor also has a handle that gives the possibility for the motor to be turned manually around the machine.

The design of the 121ECO and the new 171ECO, has the same system to set diameters and blade penetration as our range x22.

Thus, these machines benefit from very performing characteristics and a design especially made for our evolutive range.

Our Eco range does not come with accessories such as rotation autoline and automatic electric clamping.



For more details, accessories and the references please see pages 7 et 8 of this catalogue.



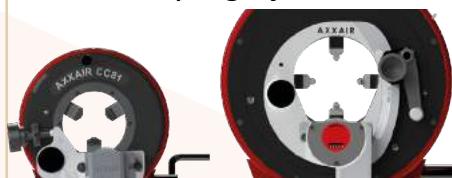
81M - 121ECO - ^{NEW} 171ECO

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INNOVATIVE ORBITAL SOLUTIONS

No tube distortion

Concentric clamping system



Basic and extra stainless steel jaws: no pollution of the pipes

Operator safety

feature

Penetration check feature

Uptake

121ECO + 171ECO: dual output cutting motor with 2 blade positions

Limited vibration and tube distortion

Optimised blade to jaws distance



Motor 1300W

Adjustment via the speed changer

Cutting capacity:

Up to 5 mm wall thickness



Cutting precision

Perpendicular cuts < 0.25 mm

Continuous use

Electric rotary seal with anti-twist cable

Easy handling and transportation



Cutting range

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

81M - 121ECO - 171ECO

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INNOVATIVE ORBITAL SOLUTIONS

Technical features :

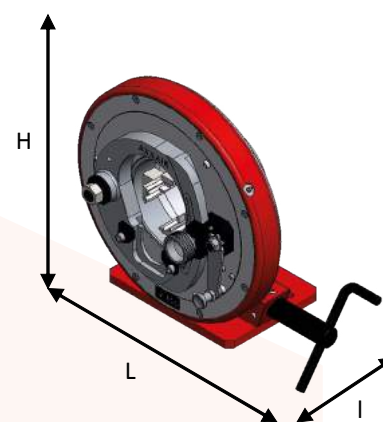
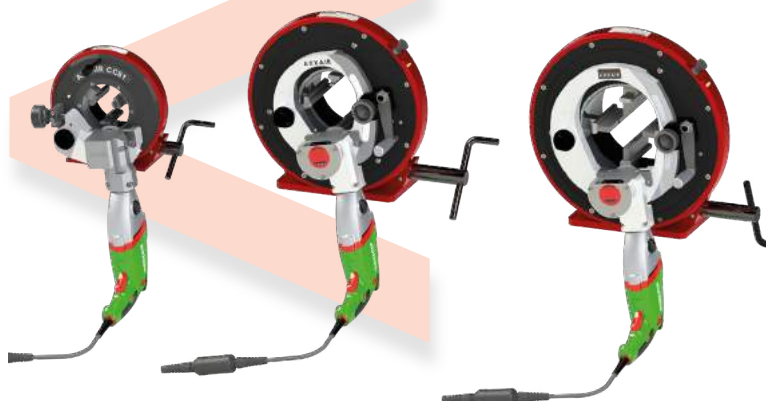
METABO motorisation offers a large range of speed and an adequate torque for thin wall stainless steel tubes applications.

Electric motor 1300W:

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

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

The 81M's motor and its necessary tools are put directly in the transport box.



	Product Code	Tube cutting machine for following diameters (in mm):		Net weight	Customs Code	Dimensions (HxLxw in mm)
		With basic jaws	With extra jaws (included)			
120V 1300W	81M11	Ø5 - Ø78	-	15 kg	846150 9000	263 x 346 x 236
	121ECO1	Ø24 - Ø121	Ø5 - Ø108	38 kg		432 x 520 x 297
	NEW 171ECO1	Ø70 - Ø170	Ø16 - Ø118	44 kg		453 x 550 x 307
230V 1300W	81M21	Ø5 - Ø78	-	15 kg	846150 9000	263 x 346 x 236
	121ECO2	Ø24 - Ø121	Ø5 - Ø108	38 kg		432 x 520 x 297
	NEW 171ECO2	Ø70 - Ø170	Ø16 - Ø118	44 kg		453 x 550 x 307



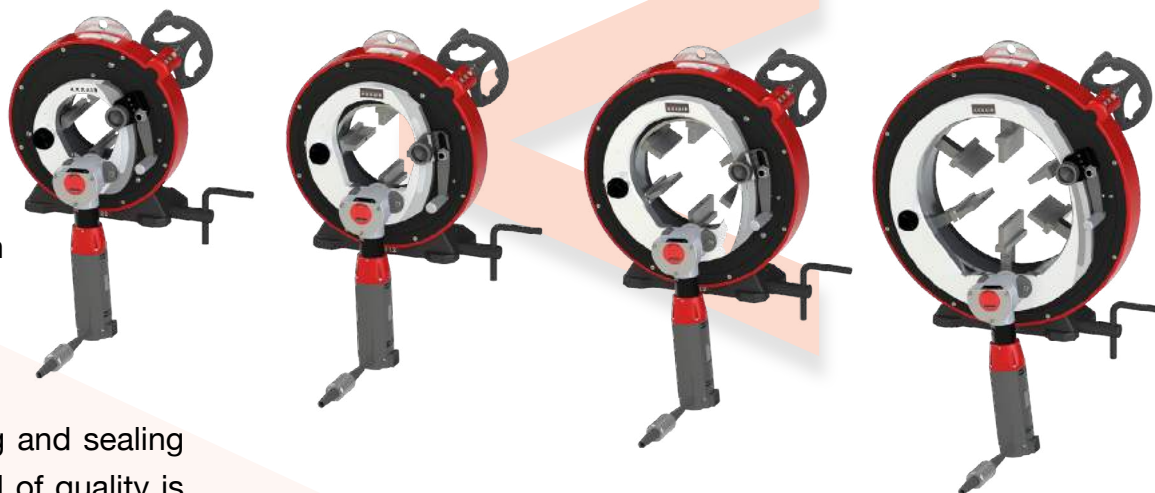
NEW PRODUCTS

in the orbital cutting range CCx22

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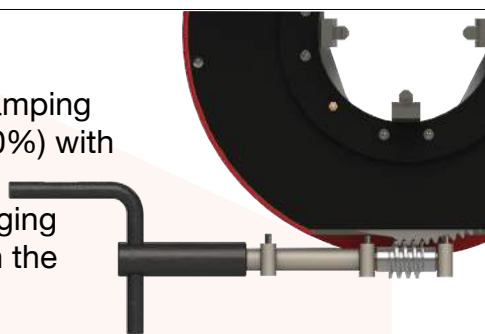
INNOVATIVE ORBITAL SOLUTIONS

Customer satisfaction and our continuous improvement policy have led our developers to redesign part of our cutting programme. The aim is to provide easier and stronger clamping and sealing against chip. The level of quality is higher than ever and stability has been improved.



Robustness

A more effective clamping system (+30%) with an endless screw engaging directly with the cam lock.



Easy Handling

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

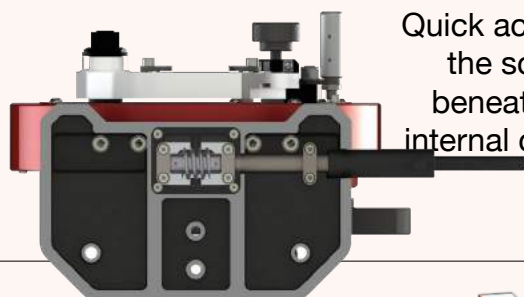


Easy maintenance and inspection

The internal clamping components are lubricated using a greaser

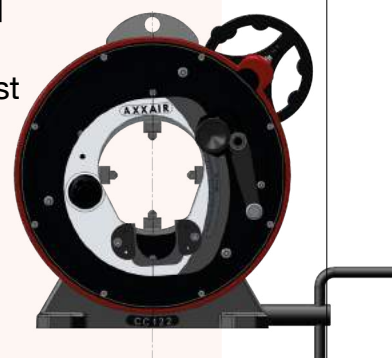
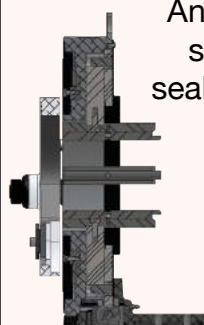


Quick access to the screw beneath the internal cowling

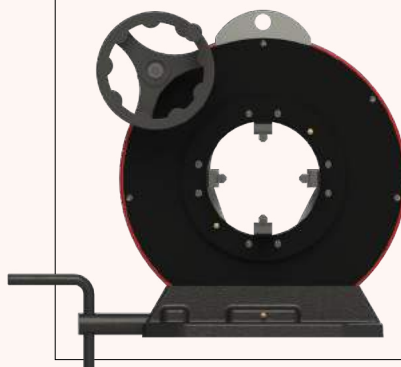


A perfect sealing against chips

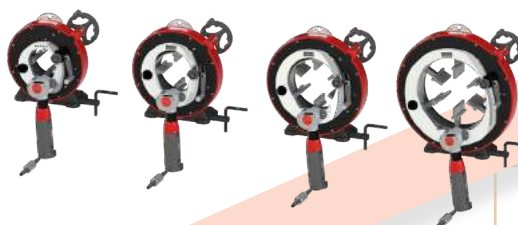
An improved system of sealing against chip



All rotating parts are incorporated in the body



122 - 172 - 222 - 322



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INNOVATIVE ORBITAL SOLUTIONS

No tube distortion

Concentric clamping



Stainless steel basic
and
auxiliary jaws as
standard

**Reduced vibration
and increased blade
life**

Optimised blade to jaw
distance



Scalability

Can be transformed
into an orbital
beveling and welding
machine

Continuous use

Electric rotary seal with
anti-twist cable

Cutting quality

Rotation handle for
controlled and
continuous cutting
speed

Uptake

Dual output cutting
motor
with 2 blade
positions

Cutting precision

Perpendicularity of
< 0.25 mm

**1200W motor or
pneumatic motor**
(as required)

Cutting capacity:
Up to 7 mm wall
thickness



**Easy handling and
transportation**



Cutting range

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 "



122- 172 - 222- 322

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INNOVATIVE ORBITAL SOLUTIONS

Technical features:

- Fast speed motor:

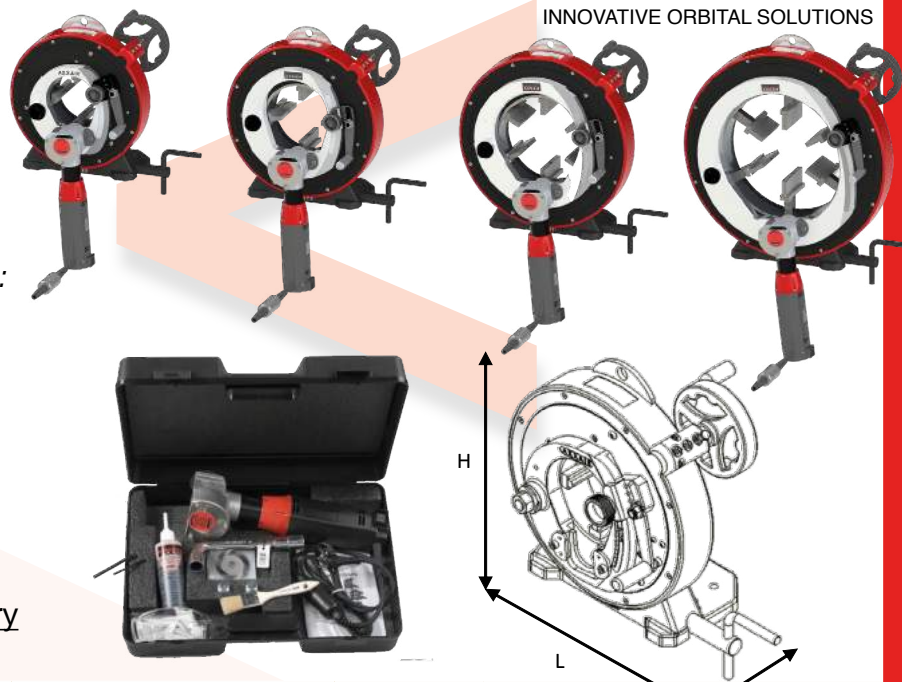
120V or 230V, 1200W, electronic speed variator with cutting compensator

Vibration level according to EN 28662 norm : $<2.5\text{m/s}^2$, protection class : IP 20

- Pneumatic motor:

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

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

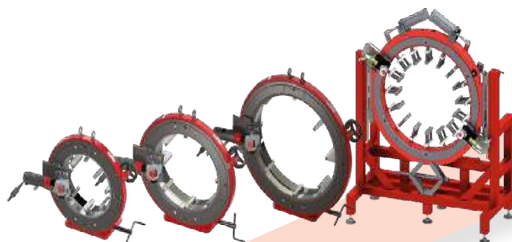


	Product Code	Tube cutting machine for the following diameters (in mm):		Net weight	Customs Code	Dimensions (HxLxw in mm)
		With basic jaws	With extra jaws (included)			
120V 1200W fast motor	NEW 122FS19	Ø29 - Ø119	Ø5 - Ø99	44 kg	846150 9000	443 x 541 x 304
	NEW 172FS19	Ø74 - Ø173	Ø16 - Ø116	51 kg		493 x 566 x 304
	NEW 222FS19	Ø128 - Ø228	Ø55 - Ø155	59 kg		548 x 594 x 304
	NEW 322FS19	Ø230 - Ø328	Ø141 - Ø239	71 kg		649 x 644 x 304
230V 1200W fast motor	NEW 122FS29	Ø29 - Ø119	Ø5 - Ø99	44 kg	846150 9000	443 x 541 x 304
	NEW 172FS29	Ø74 - Ø173	Ø16 - Ø116	51 kg		493 x 566 x 304
	NEW 222FS29	Ø128 - Ø228	Ø55 - Ø155	59 kg		548 x 594 x 304
	NEW 322FS29	Ø230 - Ø328	Ø141 - Ø239	71 kg		649 x 644 x 304
Pneu- matic motor	NEW 122PD	Ø29 - Ø119	Ø5 - Ø99	44 kg	846150 9000	443 x 541 x 304
	NEW 172PD	Ø74 - Ø173	Ø16 - Ø116	51 kg		493 x 566 x 304
	NEW 222PD	Ø128 - Ø228	Ø55 - Ø155	59 kg		548 x 594 x 304
	NEW 322PD	Ø230 - Ø328	Ø141 - Ø239	71 kg		649 x 644 x 304

421- 521-721-1100

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INNOVATIVE ORBITAL SOLUTIONS



No tube distortion

Concentric clamping



Basic **stainless steel** jaws as standard

Uptake

Dual output cutting motor with 2 blade positions

Cutting quality

Rotation handle as standard

Reduced vibration and increased blade life

Optimised blade to jaw distance



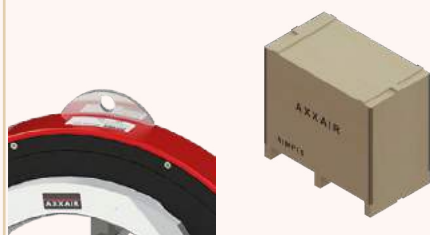
Continuous use

Electric rotary seal with anti-twist cable

Cutting precision

Perpendicular cuts
< 0.4 mm

Easy handling and transportation



1200W motor or pneumatic motor
(as required)

Cutting capacity:

Up to a wall thickness of 7 mm

Cutting range

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 "



421-521-721-1100

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INNOVATIVE ORBITAL SOLUTIONS

Technical features:

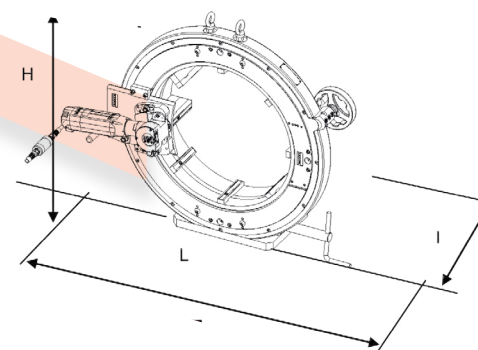
- Fast motor:

120V or 230V, 1200W, electronic speed variator with cutting compensator

Vibration level according to EN 28662 norm : <2.5m/s², protection class : IP 20

- 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	Tube cutting machine for following diameters (in mm):		Net weight	Customs Code	Dimensions (HxLxw in mm)
		With basic jaws	With extra jaws (included)			
120V 1200W fast motor	421FS19	Ø350 - Ø422	Ø212 - Ø352	186 kg	84615 09000	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	84615 09000	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	84615 09000	802x838x315
	521PD	Ø450 - Ø522	Ø312 - Ø452	223 kg		905x889x315
	721PD	Ø653 -Ø725	Ø447 - Ø654	256 kg		1104x1077x315
	1100	On demand				



Orbital Cutting - Accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

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	Customs Code	Dimensions (in cm)
CCPS21	Support feet	10 kg	84669 37000	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	Customs Code	Dimensions (in cm)
CCSER1	Simple stand	10 kg	84669 37000	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	Customs Code	Dimensions (in cm)
CCSER2	Stand (with chrome steel bearings)	11 kg	84669 37000	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

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 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.



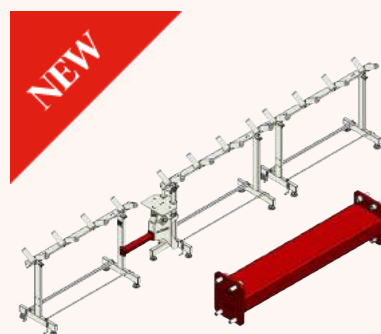
Product Code	Description	Net Weight	Customs Code	Dimensions (in cm)
CCBSB-X1	Bench with height adjustment	57 kg	84669 37000	184 x 95 x 51
Height-adjustable support bench, 1.5m - stainless steel rollers - handle for height adjustment - 1.5 m long - maximum load: 350 kg - ø min pipe: 5 mm - ø max pipe: 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	Customs code	Dimensions (in cm)
CCBSB-X2	Additional 1.5 m bench	38 kg	84669 37000	150 x 95 x 51
Additionnal support bench: - stainless steel rollers - 1.5 m long - maximum load 350 kg uniformly distributed - ø min pipe : 5 mm - 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	Customs Code	Dimensions (in mm)
CCBSB-B005	Connection	3 kg	84669 37000	100 x 80 x 402
Connecting bar for CCBSB-X1 and CCBSB- X2: - 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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NEW

Orbital Cutting - Accessories (End stop)

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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.

They can be assembled on the **feed-in or feed-out** section of the cutting machine and are available **with a ruler or with an LCD display**.

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)

- Lengths available:

1500 - 3000 - 4500 - 6000 - 7500 and 9000 mm

- Working stroke: Length - 200 mm

- Delivered by module of 1500mm to be put together

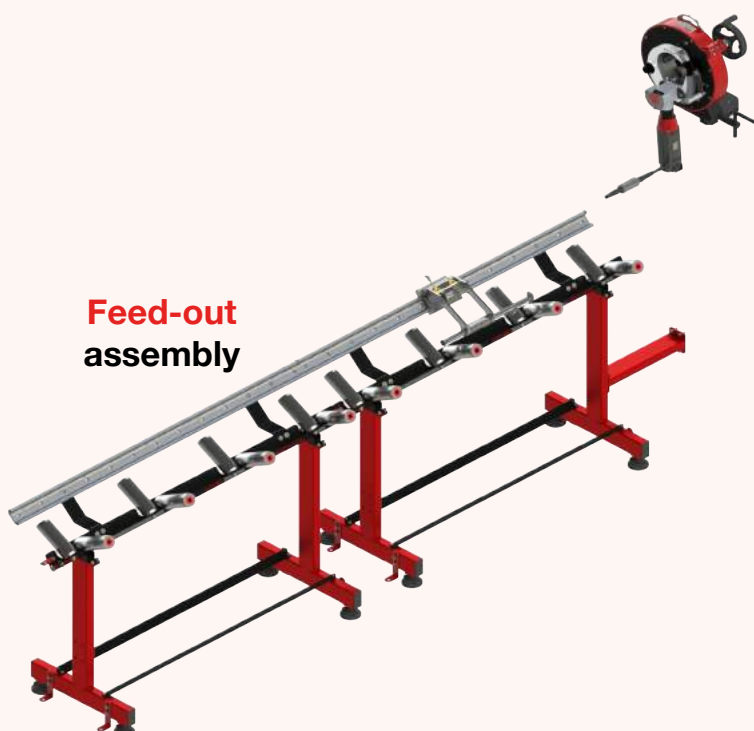
- Max load per module:

350 kg (evenly distributed)

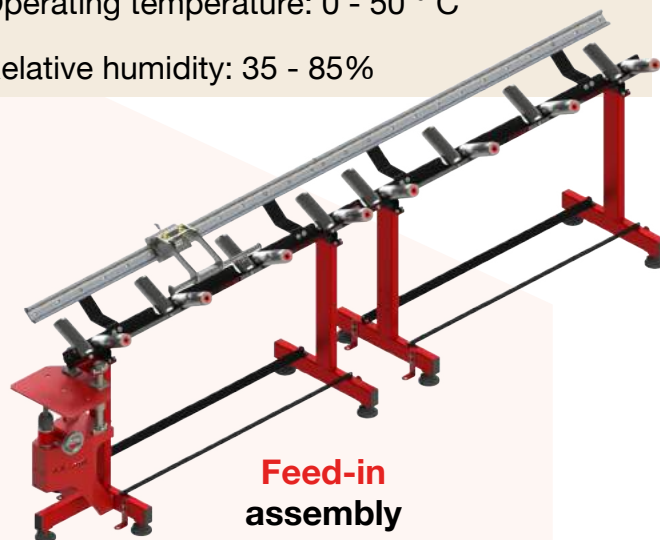
- Max push on the stop: 10 kg

- Operating temperature: 0 - 50 ° C

- Relative humidity: 35 - 85%



**Feed-out
assembly**



**Feed-in
assembly**

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



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

Orbital Cutting - Accessories (End stop)

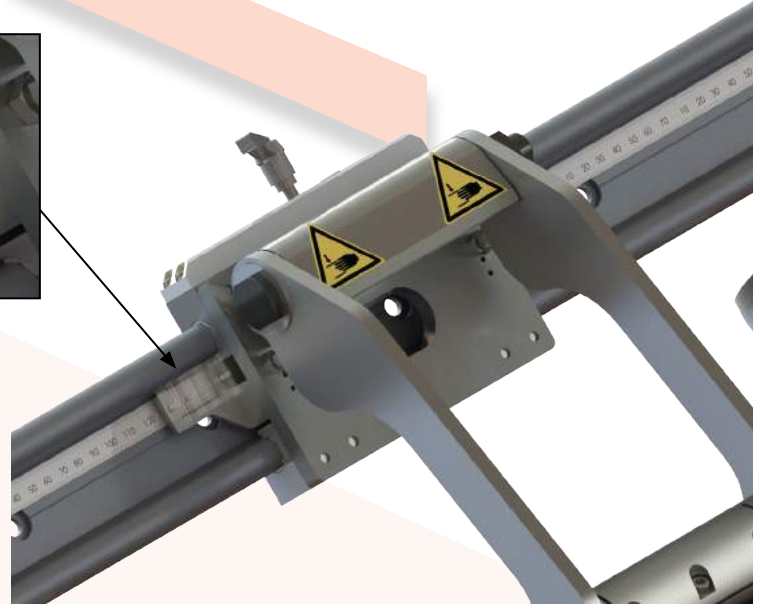
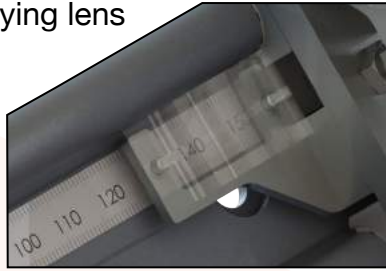
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INNOVATIVE ORBITAL SOLUTIONS

Ruler

Ruler in mm

- Equipped with a magnifying lens
- Resolution 1.0 mm



LCD display

- Resolution 0.1 mm

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.



NEW

Orbital Cutting - Accessories (End stop)

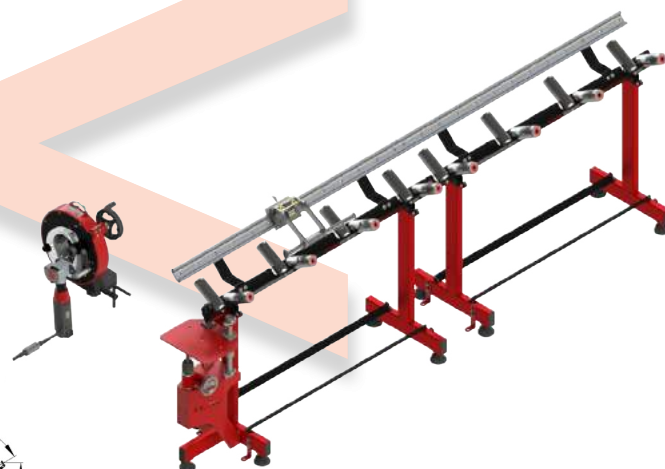
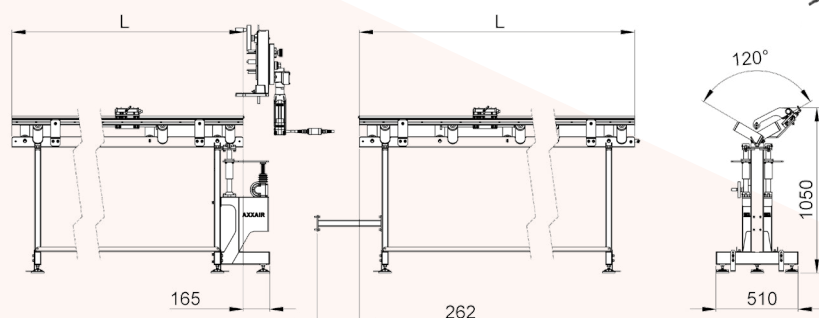
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INNOVATIVE ORBITAL SOLUTIONS

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		Customs code	
on the feed-in section of the cutting line	Ruler	1500	1300	CCBSB-AM-R-15			65 kg		84669 37000	
		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		84669 37000	
		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).



Join experience

NEW

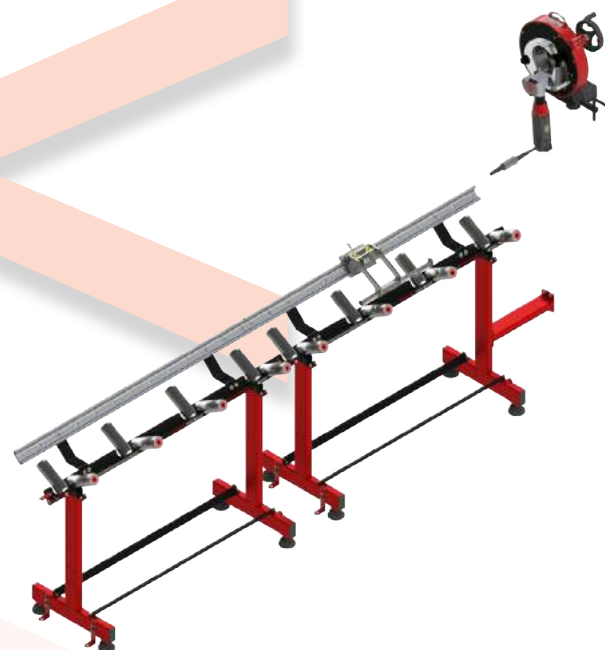
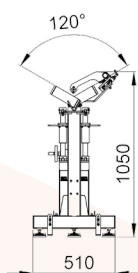
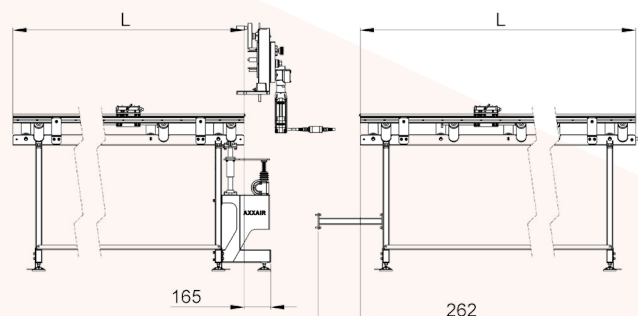
Orbital Cutting - Accessories (End stop)

AXXAIR
 INNOVATIVE ORBITAL SOLUTIONS

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		Customs code
on the feed-out section of the cutting line	Ruler	1500	1300	CCBSB-AV-R-15				46 kg		84669 37000
		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		
	LCD display	1500	1300	CCBSB-AV-D-15				46 kg		84669 37000
		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



Orbital Cutting - Accessories

AXXAIR

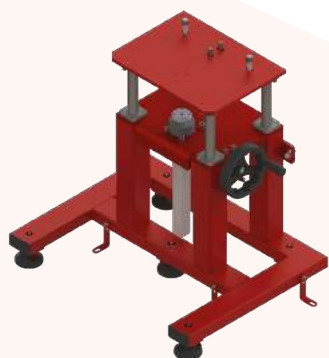
INNOVATIVE ORBITAL SOLUTIONS

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 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



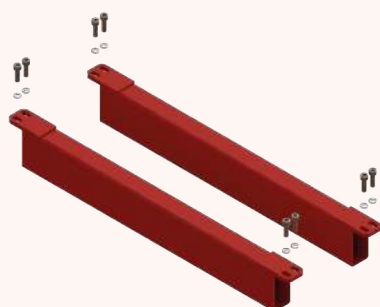
Product Code	Description	Net weight	Customs Code	Dimensions (in mm)
CCBSB2-003	Height-adjustable table	53.5 kg	84669 37000	
Height-adjustable table for 422 / 521 / 721:				
- adjustable table height - optimum stability				

81	121ECO	171ECO	122	172	222	322	✓421	✓521	✓721	1100
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Product Code	Description	Net Weight	Customs Code	Dimensions (in mm)
CCBSB2-004	Support bench	72.8 kg	84669 37000	
Tube support bench for 422 / 521 / 721:				
- quick assembly and dismantling - 1.5 m long - height adjustment - optimum stability				

81	121ECO	171ECO	122	172	222	322	✓421	✓521	✓721	1100
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Product Code	Description	Poids net	Code douanier	Dimensions (en mm)
CCBSB2-005	Connecting bar	6.5 kg	84669 37000	
Connecting bar between two CCBSB2 support benches:				
- 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

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

New autoline electric inverter:

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 or French
- choose the unit of measure: mm or inch

Welding mode with prefab machine and SAXX generator: 4-button display (Start, Stop, Left, Right) with the addition of a generator connection cable

(Ref. SAEX-A02 for addition, more details in the "ORBITAL WELDING" section of the catalogue)

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

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



Product Code	Description	Net Weight	Customs Code	Dimensions (in mm)
SAEX-00	Autoline electric inverter	6.3 kg	8515 900090	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	Customs Code	Dimensions (in mm)
SAEX-000	Autoline electric inverter	6.3 kg	8515 900090	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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Orbital Cutting - Consummables

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS



Orbital cutting blades

Customs Code: 8202310000

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



Product Code	Description	Volume	Customs Code
CCLUH	Liquid lubricant	250 ml	3403198000

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



Product Code	Description	Volume	Customs Code
CCLUP	Paste lubricant	250 ml	3403198000

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



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

A machine - 3 applications

AXXAIR

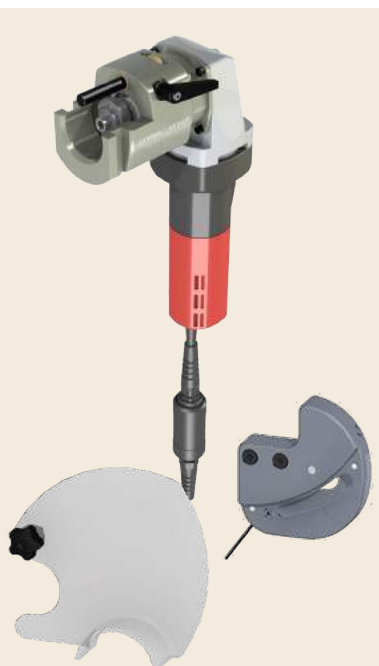
INNOVATIVE ORBITAL SOLUTIONS



Product Code	Description	Net weight	Customs Code
FS xx / MOPD	Cutting motor	5 kg	8466937000

Low-speed / high-speed / pneumatic motor with dual output (uptake):

	Product Code	Frame	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 the information you need, with the relevant product codes, appears in the orbital cutting accessories and consumables section of this catalogue.
120V	Low-speed motor: FS15	122	
	High-speed motor: FS25	172	
230V	Low-speed motor: FS19	222	
	High-speed motor: FS29	222	
Pneumatic	MOPD	322	



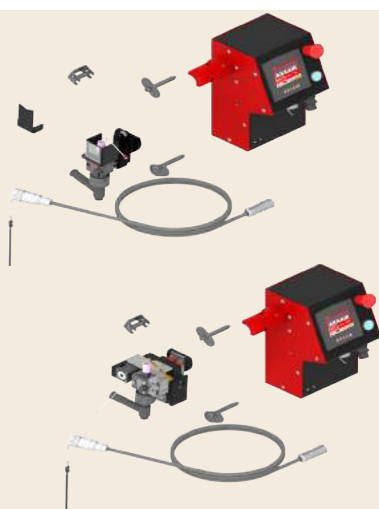
Product Code	Description	Net Weight	Customs Code
GA10 - x - xx	Bevelling motor kit	5 kg	8466937000

120V / 230V carbide motor supplied with a chip shield and a workpiece guide tailored to the frame of your cutting / prefab welding machine:

	Product Code	Frame		Product Code	Frame
120V	GA10-1-120	122	230V	GA10-2-120	122
	GA10-1-170	172		GA10-2-170	172
	GA10-1-220	222		GA10-2-220	222
	GA10-1-320	322		GA10-2-320	322

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

All the information you need, with the relevant product codes, appears in the orbital bevelling accessories and consumables section of this catalogue. ("thick" catalogue)



Product Code	Description	Net Weight	Customs Code
SX - KIT x	Torch kit	depending on the chosen product	8466937000

KIT for upgrading a CC/GA to an SX Air / Water / AVC+OSC torch

Cooling	Product Code	Frame	To use this KIT and to prefab weld, you will need to order: a suitable AXXAIR welding generator for the tubes you want to weld. All the information you need, with the relevant product codes, appears in the orbital welding section of this catalogue.
AIR	SX-2KITA	122	
	SX-2KITE	172	
Water	SX-2KIT-NAOF (AVC/OSC)	222	
		322	

AXXAIR's 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 example: abrasive disc cutting, band saw or cutting wheels.



Tubes with small diameters <25.4 mm are particularly concerned by the facing process. They are often cut with tube cutters or abrasive cutting machines. Generally speaking, tubes must be faced before welding in order to obtain quality welds.

One category of tubes is particularly concerned: electropolished tubes 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 mains for more flexibility. HSS TiAlN blades, reversible and with two cutting edges guarantee optimal lifetime of consumables.

QUALITY

Facing creates a clean surface free of burrs and without tube deformation: sharpness and accuracy guaranteed. Thin tubes are therefore ready for welding.

PORTABILITY

Our facing machines are light 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 to devise a solution that best meets your needs!

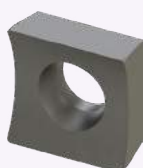


AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

DC25-P - 65-G - 25-M - 65-M**High quality blades**

HSS TIALN blade
Reversible,
two cutting edges

**QuiXS:**

Lets you change
the head or fit a
chuck in just a few
seconds.

**Accurate manual advance**

0.1 mm steps

Clamping shells

Stainless steel jaw
opens wide for
easy positioning
of tube

**DC 65-G/DC65-M**

30° and 45° outside
bevel possible with
optional tool holder

Drill / Driver

- QuiXS quick change system
- 18V motor
- Lithium-Ion technology
- LED battery charge indicator
- Supplied with two 3Ah 18V batteries, rapid battery charger

Mains motor

- Motor 1100W.
- Two speed reducer with thumbwheel speed change
- Top quality speed changer
- Anti-start protection
- Reduction housing in cast aluminium

Facing range

DC25-P	ø3 - ø25.4 mm 0.1 - 1"
DC25-M	ø3 - ø25.4 mm 0.1 - 1"
DC65-G	ø3 - ø63.5 mm 0.1 - 2.5"
DC65-M	ø3 - ø63.5 mm 0.1 - 2.5"

**Join experience**

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

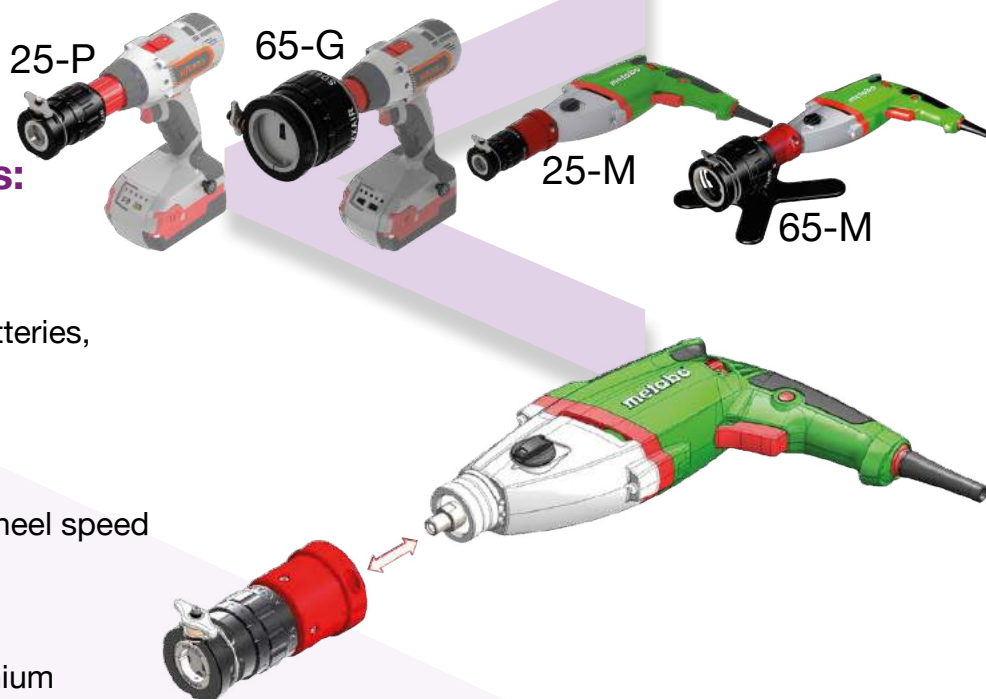
DC25-P - 65-G - 25-M - 65-M**Technical characteristics:****18V motor (Drill/Driver) :**

- 120 or 230 V
- Supplied with two 1.5 Ah 18V batteries, rapid battery charger

Mains motor 1100 W :

- 120 V or 230 V, 1100 W
- Two speed reducer with thumbwheel speed change
- Top quality speed changer
- Anti-start protection
- Reduction housing in cast aluminium

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	Customs Code	Dimensions (HxLxI in mm)
120 V Drill / Driver	DC25-P1	Ø3 - Ø25.4	2.8 kg	8 mm	846190 0000	250x58x273
	DC65-G1	Ø3 - Ø63.5	7.1 kg	12 mm		298x146x323
230 V Drill / Driver	DC25-P2	Ø3 - Ø25.4	2.8 kg	8 mm		250x58x273
	DC65-G2	Ø3 - Ø63.5	7.1 kg	12 mm		298x146x323
1100W 120 V Mains motor	DC25-M1	Ø3 - Ø25.4	4.3 kg	8 mm	846190 0000	216x85x398
	DC65-M1	Ø3 - Ø63.5	8.1 kg	12 mm		345x146x462
1100W 230 V Mains motor	DC25-M2	Ø3 - Ø25.4	4.3 kg	8 mm		216x85x398
	DC65-M2	Ø3 - Ø63.5	8.1 kg	12 mm		345x146x462



DC PACKS

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

AXXAIR offers a set which combines the best in squaring in a single box.

DC65 squaring head

Stainless steel jaw opens wide for easy positioning of tube

Mains motor 1100 W

Available for
120 V
or 230 V

DC25 squaring head

Stainless steel jaw opens wide for easy positioning of tube

DC65 squaring head

Stainless steel jaw opens wide for easy positioning of tube

Drill/Driver

Available for
120 V
or 230 V

Simplicity of settings

Tool adjusted to the diameter of tube to be machined in just a few seconds.



DC25 squaring head

Stainless steel jaw opens wide for easy positioning of tube



DC PACKS

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Caractéristiques techniques:

Each DC PACK is composed of:

- One mains motor 1100 W
OR one 18V motor (Drill/Driver) 3.0 Ah

- One DC25 squaring head
AND one DC65 squaring head

Change from one set-up to another in just a few seconds :

DC25: true up tubes with a light, ultra-compact machine

DC65: squaring and bevelling (optional bevelling tool holder) on the bench or directly on the tubes (dismountable foot)



G1 / G2



M1 / M2

	Product Code	Facing machine for the following diameters (in mm)	Net weight	Minimal straight length of tube	Customs Code	Dimensions (HxLxI in mm)
120 V Driller / Driver	DCPACK-G1	Ø3 - Ø25.4 and Ø3 - Ø63.5	< 7.1 kg	DC25: 8mm DC65: 12mm	846190 0000	298x146x323
230 V Driller / Driver	DCPACK-G2	Ø3 - Ø25.4 and Ø3 - Ø63.5	< 7.1 kg	DC25: 8mm DC65: 12mm		298x146x323
1100W 120 V Mains motor	DCPACK-M1	Ø3 - Ø25.4 and Ø3 - Ø63.5	< 8.1 kg	DC25: 8mm DC65: 12mm	846190 0000	345x146x462
1100W 230 V Mains motor	DCPACK-M2	Ø3 - Ø25.4 and Ø3 - Ø63.5	<8.1 kg	DC25: 8mm DC65: 12mm		345x146x462



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

30° and 45° outside bevel

possible with optional tool holder

Easy positioning 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

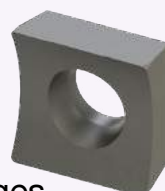
**Delivered in a wooden box****1100 W motor**

Motor 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

Technical characteristics:

Burr-free tube squaring and edge breaking machine used after a band saw cut or on electropolished tubes

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

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



AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

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



	Product Code	Facing machine for the following diameters (in mm)	Net weight	Minimal straight length of tube	Customs Code	Dimensions (HxLxI in mm)
120V Moteur 1100W	DC115-AM1	Ø12 - Ø115	11 kg	28 mm	846190 0000	219x314x462
	DC221-AM1	Ø50 - Ø220	21 kg	39 mm		327x425x540
230 V Moteur 1100W	DC 115-AM2	Ø12 - Ø115	11 kg	28 mm		219x314x462
	DC221- AM2	Ø50 - Ø220	21 kg	39 mm		327x425x540



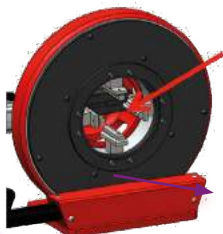
DC115-BM - 221-BM**AXXAIR**

INNOVATIVE ORBITAL SOLUTIONS

Stainless steel concentric jaws

DC115 : 4 Stainless steel concentric jaws

DC221 : 6 Stainless steel concentric jaws

**High quality blades**HSS TIALN blade
Reversible,
two cutting edges**Accurate manual advance**

0.1 mm steps

Bench mounting option**1100 W motor**

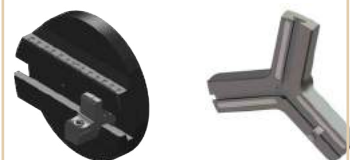
Motor 1100W with large speed range (2 gears)

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

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

**30° and 45° outside bevel**

possible with optional tool holder

Delivered in a wooden box**Facing range**

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



DC115-BM - 221-BM

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Technical characteristics:

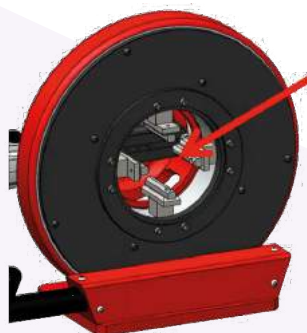
Burr-free tube squaring and edge breaking machine used after a band saw cut or on electropolished tubes

- Thickness < 0,12» (3 mm) according to material
- Ideal tool to face a tube 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	Customs Code	Dimensions (HxLxI in mm)
120V Moteur 1100 W	DC115-BM1	Ø12 - Ø115	37 kg	58 mm	846190 0000	219x314x462
	DC221-BM1	Ø50 - Ø220	55 kg	62 mm		327x425x540
230 V Moteur 1100 W	DC 115-BM2	Ø12 - Ø115	37 kg	58 mm		219x314x462
	DC221- BM2	Ø50 - Ø220	55 kg	62 mm		327x425x540



Join **experience**



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	Customs Code	Dimensions (in cm)
CCBSB-X1	Height-adjustable tube support bench	57 kg	84669 37000	184 x 95 x 51

Height-adjustable support bench, 1.5 m :

- stainless steel rollers
- height adjustment handle
- maximum load 350 kg uniformly distributed
- min tube ø: 5 mm
- max tube ø: 321 mm

DC25-P	DC65-G	DC25-M	DC65-M	DC115-AM	DC221-AM	✓ DC115-BM	✓ DC221-BM
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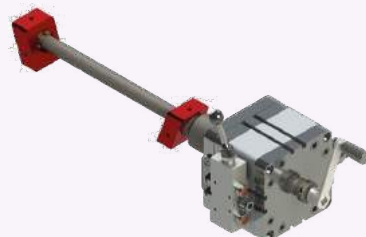


Product Code	Description	Net weight	Customs Code	Dimensions (in cm)
CCBSB-X2	Additional support bench	38 kg	84669 37000	150 x 95 x 51

Additional tube support bench, 1.5 m :

- stainless steel rollers
- maximum load 350 kg uniformly distributed
- min tube ø: 5 mm
- max tube ø: 321 mm

DC25-P	DC65-G	DC25-M	DC65-M	DC115-AM	DC221-AM	✓ DC115-BM	✓ DC221-BM
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Product Code	Description	Net weight	Customs Code	Dimensions (in cm)
CCSA21	Pneumatic clamping	8.2 kg	84669 37000	560 x 200 x 190

Pneumatic clamping for DC115-BM / DC221-BM

DC25-P	DC65-G	DC25M	DC65M	DC115AM	DC221AM	✓ DC115BM	✓ DC221BM
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Orbital Facing - Accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS


Clamping jaws
Customs code : 8466937000

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	
DC25	DCM25-XX	3 mm - 25.4 mm	1/8" - 1"
DC65	DCM65A-XX	25.1mm - 63.5 mm	1" - 2.5"
	DCM65B-XX	3 mm - 25 mm	1/8" - 1"
DC115	DCM115-XXX	12 mm - 115 mm	1/2" - 4.5"
DC221	DCM221-XXX	50 mm - 220 mm	2" - 8.5"

✓ DC25-P

✓ DC65-G

✓ DC25-M

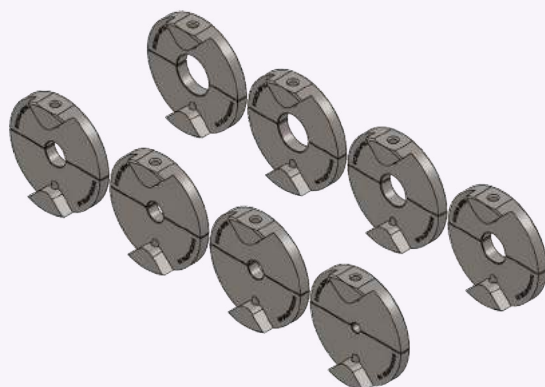
✓ DC65-M

✓ DC115-AM

✓ DC221-AM

✓ DC115-BM

✓ DC221-BM


Jaws for micro-fitting
Customs code : 8466937000

Stainless steel micro-fitting jaws for DC25 ONLY

- Straight length : 4,3 mm mini

Product Code	Diameter of the tube	
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-P

DC65-G

✓ DC25-M

DC65-M

DC115-AM

DC221-AM

DC115-BM

DC221-BM





Orbital Facing - Accessories

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Product Code	Description	Net weight	Customs Code	Dimensions (in mm)
DCM6525	Spacer	0.022 kg	84669 37000	Ø 76
Spacer for fitting DC25 jaws on a DC65				

DC25-P	✓ DC65-G	DC25-M	✓ DC65-M	DC115-AM	DC221-AM	DC115-BM	DC221-BM
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Product Code	Description	Net weight	Customs Code	Dimensions (in mm)
DC65-P300	Tool holder for bevelling	0.028 kg	84669 37000	22 x 13 x 28.5
Tool holder for bevelling the outer edge at 30° :				
- Bevelling possible over the whole of the machine's range (0,1 to 2,5 inches), - If squaring and bevelling, range between 20 and 53 mm diameter, max - Tool holders are supplied without blades				

DC25-P	✓ DC65-G	DC25M	✓ DC65M	✓ DC115AM	✓ DC221AM	✓ DC115BM	✓ DC221BM
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Product Code	Description	Net weight	Customs Code	Dimensions (in mm)
DC65-P450	Tool holder for bevelling	0.026 kg	84669 37000	22 x 12.5 x 28.5
Tool holder for bevelling the outer edge at 45° :				
- Bevelling possible over the whole of the machine's range (0,1 to 2,5 inches), - If squaring and bevelling, range between 20 and 53 mm diameter, max - Tool holders are supplied without blades				

DC25-P	✓ DC65-G	DC25-M	✓ DC65-M	✓ DC115-AM	✓ DC221-AM	✓ DC115-BM	✓ DC221-BM
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Orbital Facing - Consumables

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Our HSS TIALN blades assure a high quality burr-free tube squaring. They are reversible and have two cutting edges.

It does not alter the nature of the material. There is less wear on the insert, thanks to the cleanness of the process.



Product Code	Description	Net weight	Customs Code	Dimensions (in mm)
DC-OUT1	Box of 10 blades	0.028 kg	84669 37000	12.5 x 40 x 100

HSS TIALN blade (box of 10 blades) :

- HSS TIALN (High Speed Steel) for working steel with a high speed

✓ DC25-P

✓ DC65-G

✓ DC25M

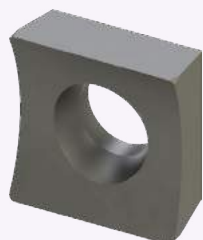
✓ DC65M

✓ DC115AM

✓ DC221AM

✓ DC115BM

✓ DC221BM



Product Code	Description	Net weight	Customs Code	Dimensions (in mm)
DC-UOUT1	Blade (single unit)	0.022 kg	84669 37000	4 x 9.5 x 9.5

HSS TIALN blade (single unit) :

- HSS TIALN (High Speed Steel) for working steel with a high speed

✓ DC25-P

✓ DC65-G

✓ DC25M

✓ DC65M

✓ DC115AM

✓ DC221AM

✓ DC115BM

✓ DC221BM



Orbital welding (Prefabrication)

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

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

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

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



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

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

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

FLEXIBILITY, PRODUCTIVITY

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

QUALITY AND REPEATABILITY

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

EASY TO USE

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



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

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



AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

NEW PRODUCTS

In the SXx22 orbital welding range

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



Robustness, improved seating, more "positive" clamping and continuity guided the choices of our developers and pilot customers.

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

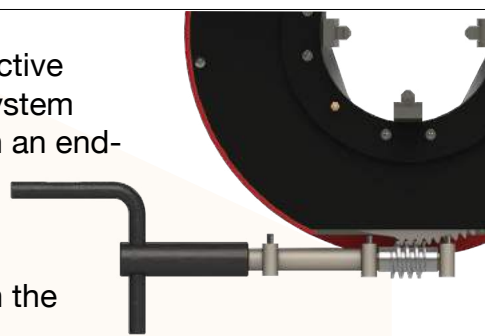


Easy handling

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

Robustness

A more effective clamping system (+30%) with an end-less screw engaging directly with the cam lock.

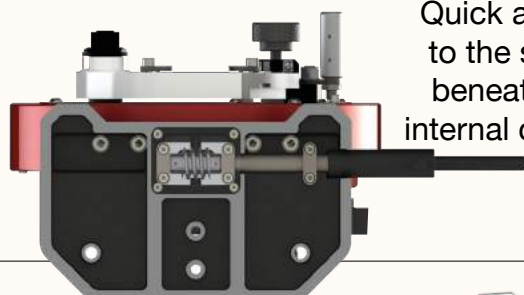


Easy maintenance and inspection

The internal clamping components are lubricated using a greaser

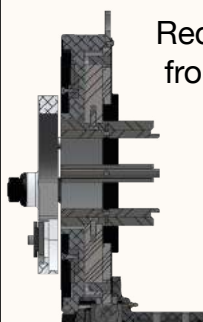


Quick access to the screw beneath the internal cowling



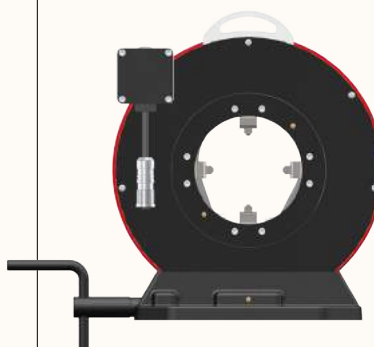
A perfect seal against chips

Redesigned front baffle



Rotating parts incorporated into the body

No moving parts visible at the rear



SX122 - 172 - 222 - 322

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

No tube distortion

Concentric clamping



Stainless steel basic and auxiliary jaws as standard

Air Cooled or Water Cooled

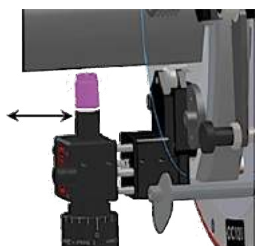


Rotating

Connect to the SAXX range welding generator

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 generators



Welding range

122	ø5 - 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"



Join experience



SX122 - 172 - 222 - 322**AXXAIR**

INNOVATIVE ORBITAL SOLUTIONS

Technical characteristics:

Machines for TIG orbital prefab welding.

Choice of: AIR cooling or WATER cooling

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

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

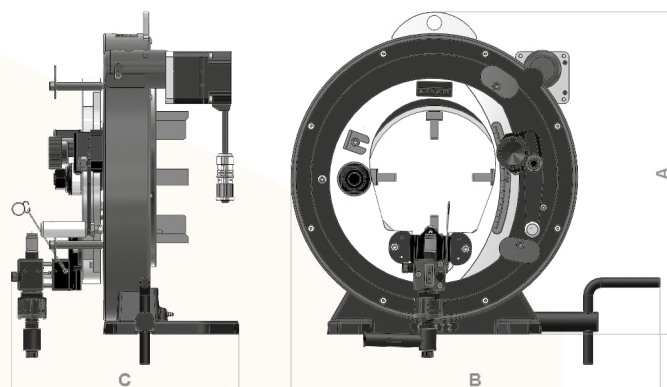
The generator will offer you parameters adapted to the characteristics of the tubes / accessories to be welded.

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

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



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



	Product Code	Tube welding machine for the following diameters (in mm):		Net weight	Customs code	Dimensions (AxBxC in mm)
		With basic jaws	With extra jaws (included)			
NEW Cooling AIR	SX122-A	Ø29 - Ø119	Ø5 - Ø99	45 kg	85153 10000	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	Ø5 - Ø99	45 kg	85153 10000	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	Customs code	Dimensions (in cm)
CCPS21	Support legs	10 kg	84669 37000	103 x 32 x 11
<u>Support legs for orbital welding machine:</u> <ul style="list-style-type: none"> - 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	Customs code	Dimensions (in cm)
CCSER1	Stand	10 kg	84669 37000	60 x 26 x 10
<u>Simple stand for supporting tubes with height adjustment:</u> <ul style="list-style-type: none"> - 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	Customs code	Dimensions (in cm)
CCSER2	Stand (with chrome steel bearings)	11 kg	84669 37000	60 x 26 x 10
<u>Stand with chrome steel bearings for supporting tubes with height adjustment:</u> <ul style="list-style-type: none"> - 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	Customs code	Dimensions (in cm)
CCBSB-X1	Height-adjustable tube support bench	57 kg	84669 37000	184 x 95 x 51
<u>Height-adjustable support bench, 1.5m:</u> <ul style="list-style-type: none"> - stainless steel rollers - height adjustment handle - maximum load 350 kg - 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



Product Code	Description	Net weight	Customs code	Dimensions (in cm)
CCBSB-X2	Additional support bench	38 kg	84669 37000	150 x 95 x 51
<u>Additional tube support bench:</u> <ul style="list-style-type: none"> - stainless steel rollers - 1.5 m long - maximum load 350 kg - min tube ø: 5 mm - max tube ø: 321 mm 				

✓ SX122-A

✓ SX172-A

✓ SX222-A

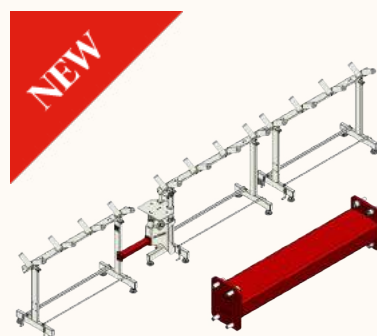
✓ SX322-A

✓ SX122-E

✓ SX172-E

✓ SX222-E

✓ SX322-E



Product Code	Description	Net weight	Customs code	Dimensions (in mm)
CCBSB-B005	Connecting bar	3 kg	84669 37000	100 x 80 x 402
<u>Connecting bar for CCBSB-X1 and CCBSB-X2:</u> <ul style="list-style-type: none"> - 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

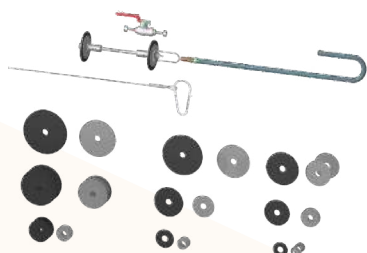
✓ SX322-E



Orbital welding (Prefab) - Accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS



Product Code	Description	Net weight	Customs code	Packaging (in cm)
SKIF-01	Gas protection KIT	2.9 kg	85159 00090	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 gas valve ¼ turn, 1 carabiner <i>Inerting the tubes during welding allows more gas savings as we only inert the area to be welded.</i>				

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



Product Code	Description	Net weight	Customs code	Packaging (in cm)
SKIB-01	Gas protection KIT	2 kg	85159 00090	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 union, 1 hose Ø 4/6 length 5 metres <i>Facilitates and accelerates inerting. Avoids the use of adhesive paper.</i>				

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



Product Code	Description	Net weight	Customs code	Dimensions (in mm)
SADFP-02	Wire guide	0.05 kg	85159 00090	51 x 90 x 65
<u>Wire guide for SX</u>				

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



Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SADF2X	Wire dispenser	12 kg	85159 00090	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



Orbital welding (Prefab) - Accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS



Product Code	Description	Net weight	Customs code	Plastic box (in cm)
SKTDI-30	Inclined torch	0.3 kg	85159 00090	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	Customs code	Plastic box (in cm)
SKTDI-45	Inclined torch	0.3 kg	85159 00090	12 x 17.5 x 4

45° inclined torch kit

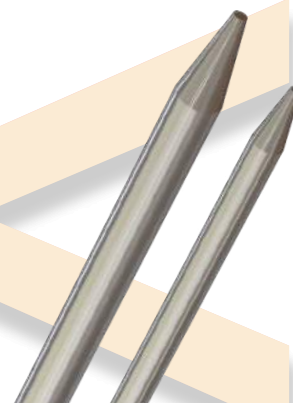
✓ SX122-A	✓ SX172-A	✓ SX222-A	✓ SX322-A	✓ SX122-E	✓ SX172-E	✓ SX222-E	✓ SX322-E
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Orbital welding (Prefab) - Consumables

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

This increases the life of the electrodes.



Product Code	Description	Net weight	Customs code	Plastic box (cm)
SCE16-50	Electrodes	0.02 kg	85159 00010	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



Product Code	Description	Net weight	Customs code	Plastic box (cm)
SCE24-50	Electrodes	0.05 kg	85159 00010	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



Product Code	Description	Net weight	Customs code	Plastic box (cm)
SKTD-xx	Replacement torch	0.3 kg	85159 00090	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



1 machine - 3 applications

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

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

global process

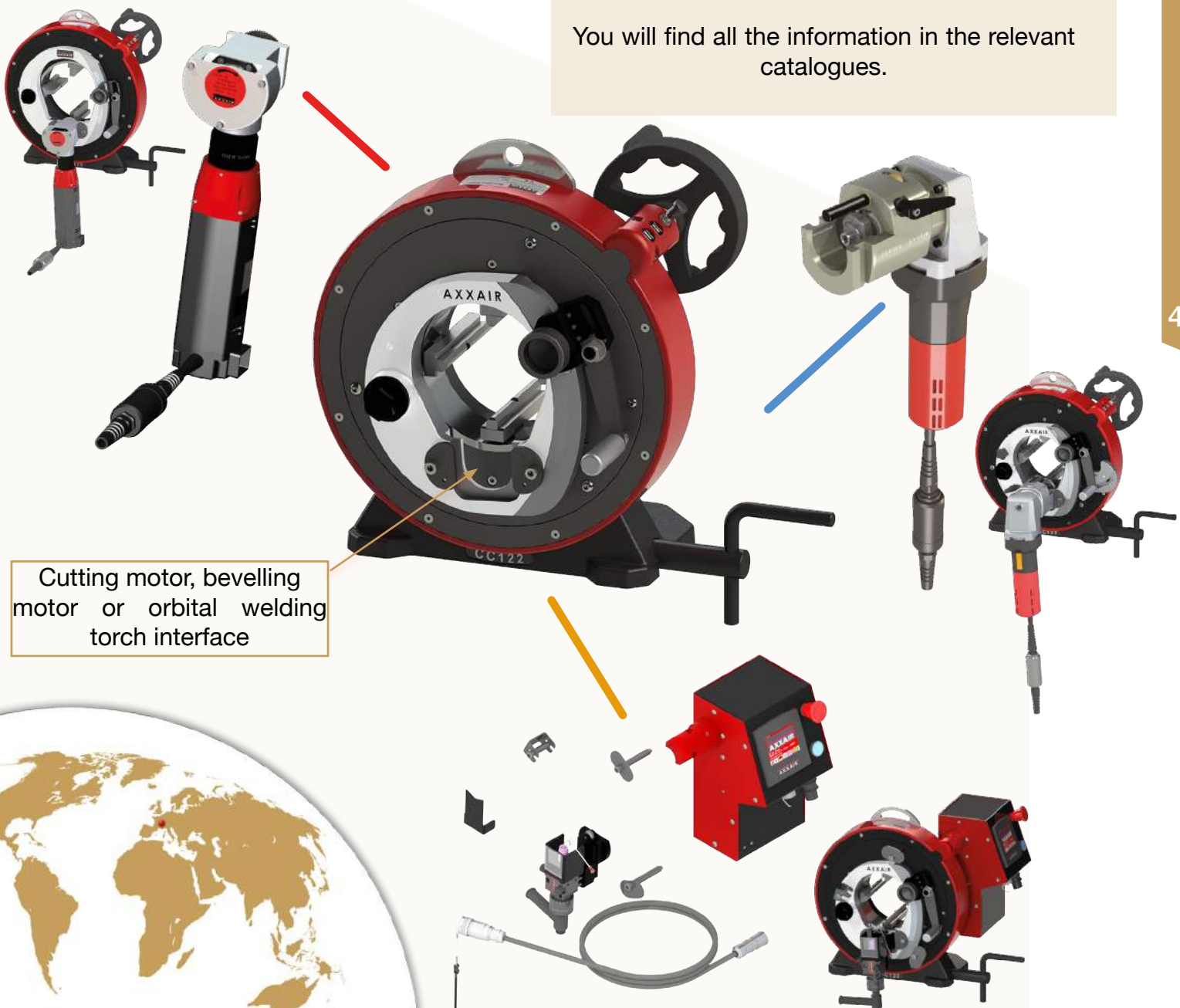
A single machine frame (122, 172, 222 and 322) makes it possible to carry out three operations: **Cutting, bevelling and orbital welding.**

BUT CAUTION,

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

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 Microfitting 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.



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.

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.

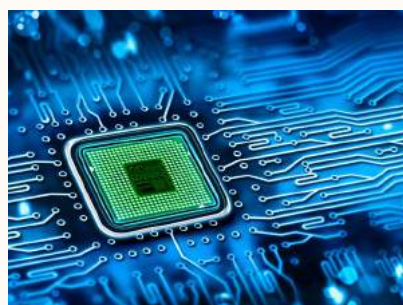
QUALITY AND REPEATABILITY

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.



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!



NEW

SXMF-17

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

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 welding generators



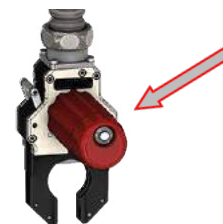
Transport

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 Swagelok cassettes, please contact us

Body with inclined contact surfaces

Allows easy removal of the cassette even when it is hot

Welding range

SXMF-17	$\varnothing 3 \text{ mm} - \varnothing 17.2 \text{ mm}$ $1/8'' - 5/8''$
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Join **experience**



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.

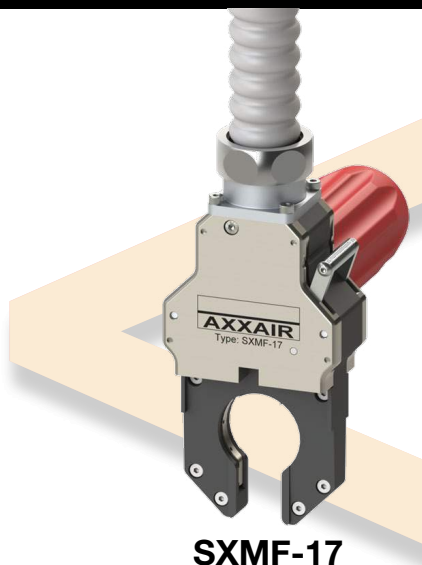


The SXMF-17 machine can weld different tube configurations (Tube/Tube – Tube/elbow union– Fitting/Fitting - ...), 3 cassettes and various accessories are available.

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

The head SXMF-17 is delivered with:

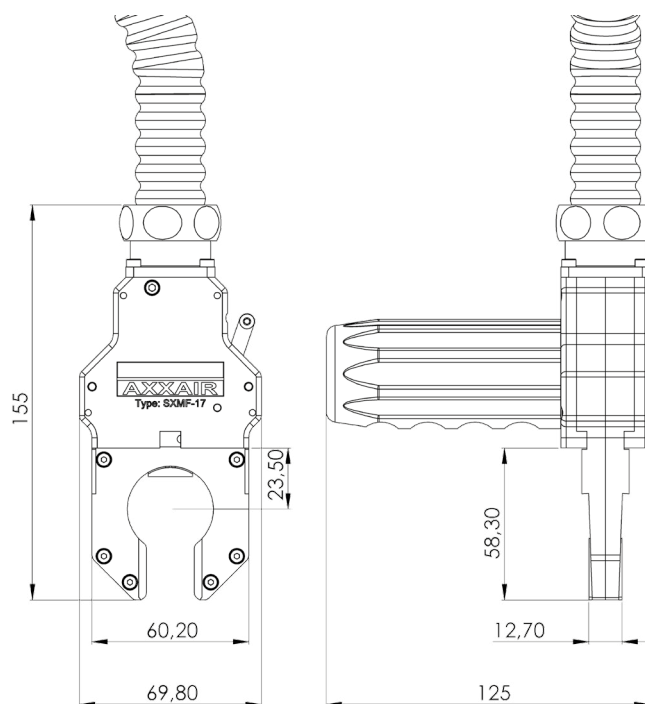
- A transport case
- Tool to set up the tungsten
- Tool to adjust the tungsten
- Tool to set up the collets
- User manual



SXMF-17



**SXMF-17
with mounted cassette**



Product Code	Description	Tube welding machine for the following diameters (in mm):	Diameter electrode	Weight without cable	Customs code	Dimensions
SXMF-17	Welding machine SXMF-17	1/8" to 5/8" ø 3 - ø17.2 mm	0.040» Ø1.0 mm	1.4 lbs. (0.6 kg)	85153 10000	See above



AXXAIR Sideplates for SXMF-17

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

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 .

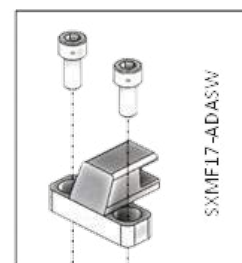
You always need the central body in combination of one of the side plates depending on what you are clamping. The combinations are multiple and the central body is mandatory in all combinations. You have to pay attention to have the clamping levers on the same side (always use one left and one right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

Attention: sideplates will have different collets.



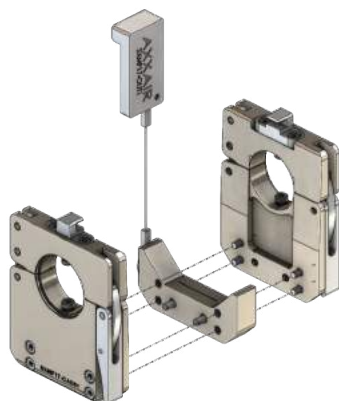
Adaptable

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



Flexible

Combine the side-plates 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

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

SXMF17-CA01

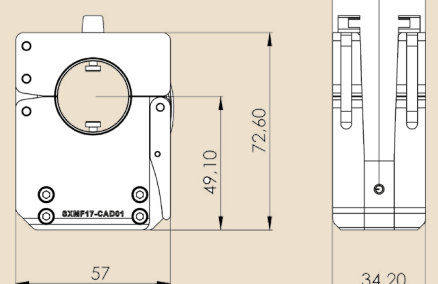

Standard cassette SXMF

Customs code : 8515900090

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

17,10 17,10

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



34,20

 SXMF-OUT1
included
with the
central body
(SXMF17-
CAM01)

SXMF17-CAG01

SXMF17-CAM01

SXMF17-CAD01

Collets for standard siteplates

Customs code 8515900090

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


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

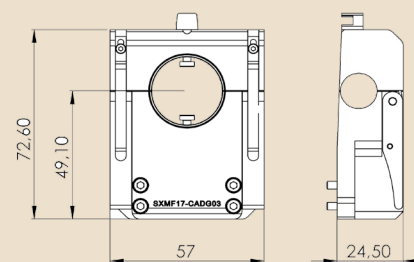
Wide Sideplate (right/left)

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS


Wide siteplate (right and left) for SXMF
Customs code : 8515900090

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



Wide to order to clamp the following fittings.

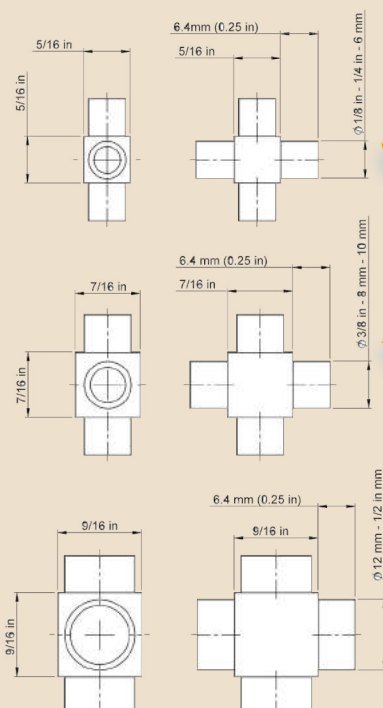
Tube collets for wide siiteplate
Customs code : 8515900090

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 siteplates



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

Fitting collets for wide siteplate
Customs code : 8515900090


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

Thin sideplates

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INNOVATIVE ORBITAL SOLUTIONS



Left thin sideplate



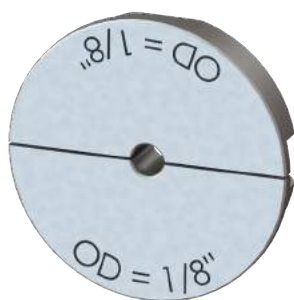
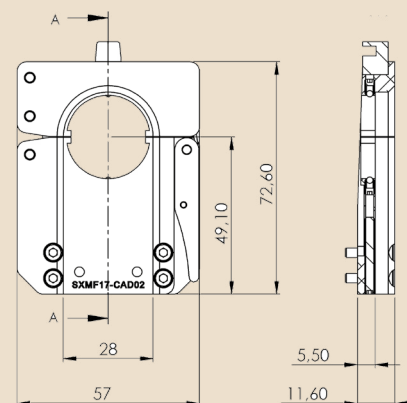
Right thin sideplate

Thin sideplates

Customs code : 855900090

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.



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

Collets for thin sideplates

Customs code : 855900090

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

AXXAIR

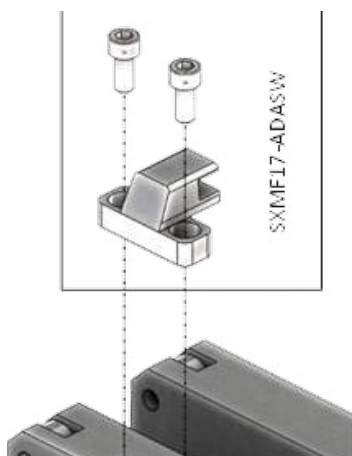
INNOVATIVE ORBITAL SOLUTIONS



Cable extention		Customs code : 8515900090
Product code	Lenght	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 generator, we offer cable extensions.

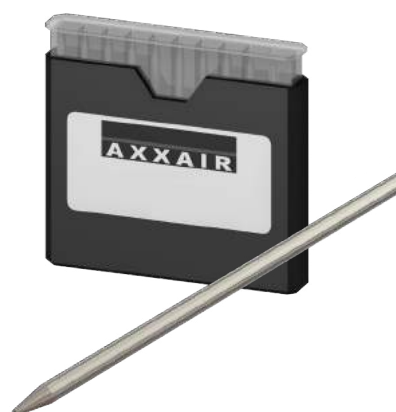


Screw kit for Swagelok		Customs code : 8515900090
Description	Product code	
Adaption kit for Swagelok cassettes	SXMF17-ADASW	

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		Customs code 8515900010	
Product code	Outside diameter of the tube to be welded		Electrode lenght
	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, 17.3	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 head)

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Our range of closed welding heads (SATF series) allows you to make very high quality welds in a minimum space.

These heads have been studied to meet the most stringent welding requirements and in the tightest areas.

This type of equipment is mainly used in the aerospace, semiconductor, pharmaceutical or food industries. It is essential for welding titanium which is very sensitive to oxidation.



Closed heads provide optimum gas protection (closed chamber) which results in welds with very limited colouration. They are recommended for welding stainless steel tubes of wall thickness <3 mm in simple fusion without added wire.

The alloy parts of the machine are designed to accept any type of assembly and to offer more welding possibilities.

A control keypad is integrated into the handle of the machine. It allows you to control all primary functions of the head. The welding cycle is visualized by an LED.

The SATF range, combined with our AXXAIR welding generators and its permanent control of the welding parameters, guarantees repeatable and quality welding. This type of weld can be inspected using the most stringent means, such as X-ray inspection.

FLEXIBILITY, PRODUCTIVITY

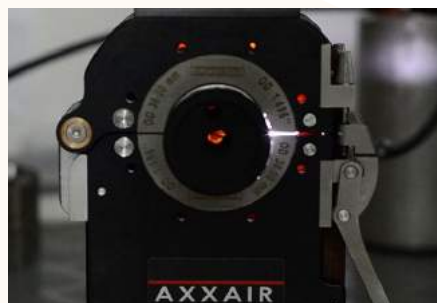
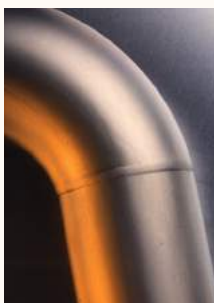
Productivity remains our primary concern. A liquid cooling circuit has been developed to increase the machine life cycle and also to allow a high welding rate.

QUALITY AND REPEATABILITY

Thanks to its new adjustable closing system and the carefully designed shape of its jaws, the SATF range allows optimum tube positioning (concentricity between the axis of rotation of the electrode and your tube) 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 optimized. Our welding cable, housed in an ultra flexible and very resistant protective sheath, also facilitates manipulation of the welding head.



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!



SATF-40NDHX - 65NDHX - 115NDHX

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

Protection

High protection against arcing outside the electrode

Power drive system with encoder

Allows STARTING IN ALL ANGULAR POSITIONS of the electrode

Water cooled



Length of the cable: 5 metres

Compatible with SAXX welding generators



These heads can also be used on the old AXXAIR welding stations with adapter cables

Transport + suspension

These heads are delivered in their work site case and with a suspension assembly



Viewing window

Fixed and transparent option



Strengthening of closing systems

Adjustable force closing systems. Allows precise adjustment of the force of the jaws on the tube to be welded according to its geometry



Fine tube welding

Up to 2.5 mm (3 mm in some cases)

Remote control keypad

It incorporates an LED on the handle to indicate whether the machine is in welding cycle or not.



SATF 40NDHX - 65NDHX - 115NDHX

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

Technical characteristics:

Maximum welding current	120 A
100% Duty cycle	60 A

The new NDHX heads are used with SAXX range welding stations.

Changes have been incorporated in the upper part, for the closing and flap guide systems. The new adjustable force closing system allows you to precisely set the force of the jaws on the tube to be welded according to its geometry. Closing is more precise and the parts to be welded are better positioned.

The heads are cooled in two ways: on the electrode holder by contact and on the outer aluminium plates in the lower part.

This cooling is essential to guarantee a long service life of the parts because it minimizes distortion effects due to expansion.

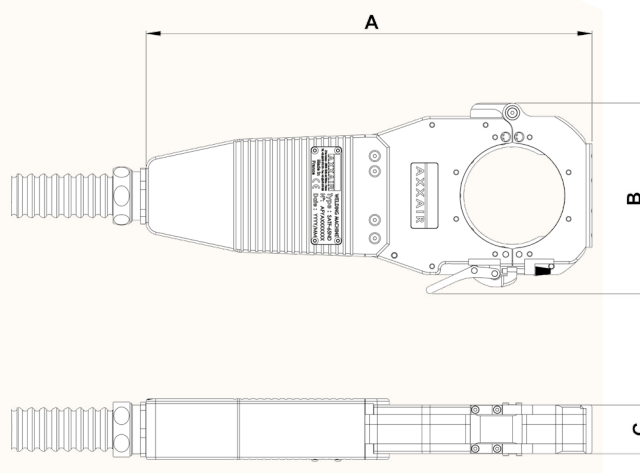
- Cable extensions
- Remote electrodes
- Flange for welding elbows



Specific features

Option: Possibility of mounting a window in the upper part thus verifying the correct positioning of the electrode, for the parts to be welded, before starting the cycle.

CAUTION: If you use the head with a window, it is necessary to wear suitable eye protection (welding mask).



Product Code	Description	Tube welding machine for the following diameters (in mm):	Net weight	Customs code	Dimensions (AxBxC in mm)
SATF-40NDHX	Water-cooled closed head for SAXX	ø 6 to ø 40 mm	8.8 kg	85153 10000	336 x 122 x 40
SATF-65NDHX	Water-cooled closed head for SAXX	ø 6 to ø 65 mm	9.2 kg		366 x 152 x 40
SATF-115NDHX	Water-cooled closed head for SAXX	ø 25 to ø 115 mm	9.9 kg		421 x 222 x 40



SATF 40MIH - 65MIH - 115MIH

Machines for AMI stations with original connectors

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

Protection

High protection against arcing outside the electrode

Drive system

Continuous current with Tachometer

Water cooled



Length of the cable: 5 metres

Fine tube welding

Up to 2.5 mm (3 mm in some cases)

Compatible with AMI stations

AMI stations with auto-calibration of welding heads
Generator type 205, 207, and 307.

(Not compatible with generator 227)

Transport + suspension

These heads are delivered in their carrying case and with a suspension assembly



Viewing window

Fixed and transparent option



Strengthening of closing systems

Adjustable force closing systems. Allows precise adjustment of the force of the jaws on the tube to be welded according to its geometry



Compatible with SAXX generators

Can also be used on SAXX welding stations by means of an adapter cable (Ref SAFS-ADMI1)



SATF 40MIH - 65MIH - 115MIH

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Technical characteristics:

Maximum welding current	120 A
100% Duty cycle	60 A

These heads are compatible with AMI (Arc Machines) stations that have the auto-calibration option. The connectors are an integral part of the cable.

If you want to use these heads later with the new AXXAIR SAXX-200, you only need to get an adapter cable. You will find all the information on the adapter cables in the welding generator accessories.

Changes have been incorporated in the upper part, for the closing and flap guide systems. The new adjustable force closing system allows you to precisely set the force of the jaws on the tube to be welded. Closing is more precise and the parts to be welded are better positioned.

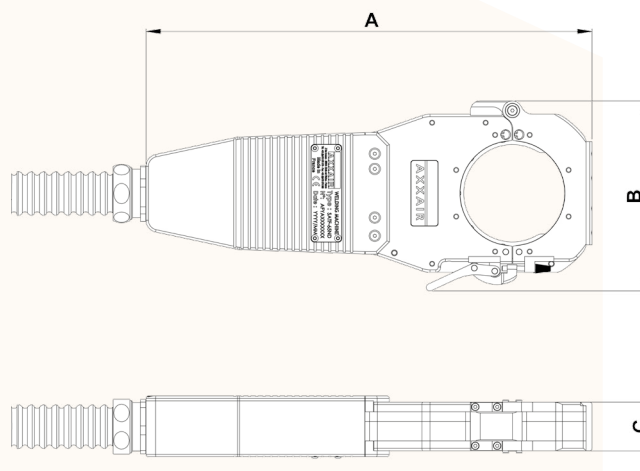
The heads are cooled in two ways: on the electrode holder by contact and on the outer aluminium plates in the lower part. This cooling is essential to guarantee a long life of the parts as it minimises the effects of distortion by expansion.



Specificities

Option: Possibility of mounting a window in the upper part thus verifying the correct positioning of the electrode, for the parts to be welded, before starting the cycle.

CAUTION: If you use the head with a window, it is necessary to wear suitable eye protection (welding mask).



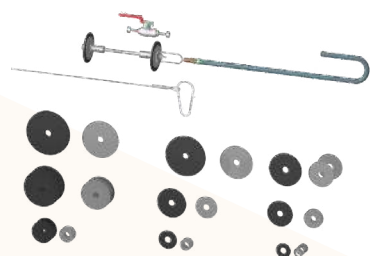
Product Code	Description	Tube welding machine for the following diameters (in mm):	Net weight	Customs code	Dimensions (AxBxC in mm)
SATF-40MIH	Water cooled closed head compatible with AMI orbital welding stations	ø 6 to ø 40 mm	8.8 kg	85153 10000	336 x 122 x 40
SATF-65MIH	Water cooled closed head compatible with AMI orbital welding stations	ø 6 to ø 65 mm	9.2 kg		366 x 152 x 40
SATF-115MIH	Water cooled closed head compatible with AMI orbital welding stations	ø 25 to ø 115 mm	9.9 kg		421 x 222 x 40



Orbital welding (Closed head) - Accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS



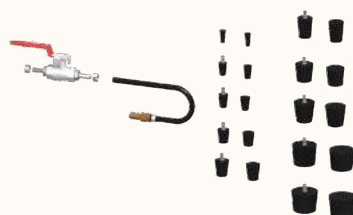
Product Code	Description	Net weight	Customs code	Packaging (in cm)
SKIF-01	Gas protection KIT	4.5 kg	85159 00090	35 x 30 x 9.5

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.

✓ SATF-40NDHX	✓ SATF-65NDHX	✓ SATF-115NDHX	✓ SATF-40MIH	✓ SATF-65MIH	✓ SATF-115MIH
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Product Code	Description	Net weight	Customs code	Packaging (in cm)
SKIB-01	Gas protection KIT	1.7 kg	85159 00090	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.

✓ SATF-40NDHX	✓ SATF-65NDHX	✓ SATF-115NDHX	✓ SATF-40MIH	✓ SATF-65MIH	✓ SATF-115MIH
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Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SSED-16 for ø1.6 SSED-24 for ø 2.4	Electrode holder	0.05 kg	85159 00090	3.5 x 3.5 x 1

Remote electrode holder for ø1.6 mm or ø2.4mm electrodes:

- The lateral adjustment range is between 4 and 7.5 mm
- Allows the welding electrode to be moved with respect to the welding plane (Positioning of off-centre welding plane)
- Example of use: short elbow welding

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

Machine	ømin	ømax
SATF-65xxx	6 mm	36 mm
SATF-115xxx	25 mm	89 mm

See page 67 for the electrodes required for its use

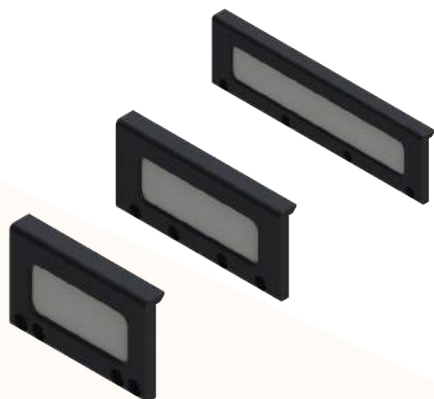
SATF-40NDHX	✓ SATF-65NDHX	✓ SATF-115NDHX	SATF-40MIH	✓ SATF-65MIH	✓ SATF-115MIH
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Orbital welding (Closed head) - Accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS



Viewing windows			Customs code
SATF Viewing windows			8515900090
Fixed and transparent viewing windows			
For Machine	Product Code	Net weight	Packaging (plastic)
SATF40-XXX	SATF40-HW10	0.04 kg	6.5 x 4.5 x 1 cm
SATF65-XXX	SATF65-HW10	0.05 kg	9 x 4.5 x 1 cm
SATF115-XXX	SATF115-HW10	0.08 kg	14 x 4.5 x 1 cm

✓ SATF-40NDHX

✓ SATF-65NDHX

✓ SATF-115NDHX

✓ SATF-40MIH

✓ SATF-65MIH

✓ SATF-115MIH



Clamping jaws			Customs code
Set of jaws for SATF			8515900090
Stainless steel clamping jaws set for SATF:			
For Machine	Product Code	Net weight	Packaging (plastic box)
SATF40-xxx	SMN40-xx	Depending on the tube ø	7.5 x 8 x 3 cm
SATF65-xxx	SMN65-xx	Depending on the tube ø	11 x 11.5 x 3 cm
SATF115-xxx	SMN115-xx	Depending on the tube ø	17 x 18 x 3 cm

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

Example: SMN40-38.1 = Set of jaws for SATF 40, external tube diameter: 38.1 mm

✓ SATF-40NDHX

✓ SATF-65NDHX

✓ SATF-115NDHX

✓ SATF-40MIH

✓ SATF-65MIH

✓ SATF-115MIH



Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SAGC-121	Closed head support	0.42 kg	8515900090	17 x 12 x 9

Screw-on support for closed heads

✓ SATF-40NDHX

✓ SATF-65NDHX

✓ SATF-115NDHX

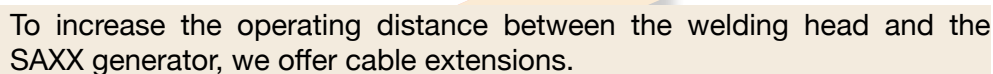
✓ SATF-40MIH

✓ SATF-65MIH

✓ SATF-115MIH

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INNOVATIVE ORBITAL SOLUTIONS



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

✓ SATF-40NDHX	✓ SATF-65NDHX	✓ SATF-115NDHX	SATF-40MIH	SATF-65MIH	SATF-115MIH
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63



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

✓ SATF-40NDHX ✓ SATF-65NDHX ✓ SATF-115NDHX ✓ SATF-40MIH ✓ SATF-65MIH ✓ SATF-115MIH



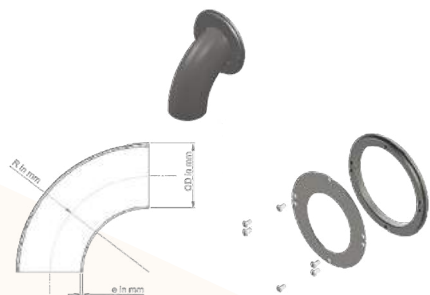
- Tube end: standard jaws
- Connector end: special jaws

✓ SATF-40NDHX ✓ SATF-65NDHX ✓ SATF-115NDHX ✓ SATF-40MIH ✓ SATF-65MIH ✓ SATF-115MIH



Orbital welding (Closed head)

Optional accessories

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 INNOVATIVE ORBITAL SOLUTIONS


Tube – elbow configuration

- Tube end: standard jaws
- Elbow end: adaptor jaws + gas protection side plates in stainless steel

✓ SATF-40NDHX

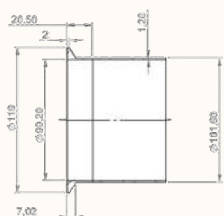
✓ SATF-65NDHX

✓ SATF-115NDHX

✓ SATF-40MIH

✓ SATF-65MIH

✓ SATF-115MIH



Tube – ferrule configuration

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

✓ SATF-40NDHX

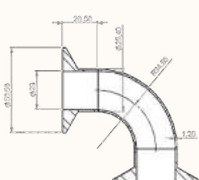
✓ SATF-65NDHX

✓ SATF-115NDHX

✓ SATF-40MIH

✓ SATF-65MIH

✓ SATF-115MIH



Ferrule – elbow – ferrule configuration (small diameter)

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

✓ SATF-40NDHX

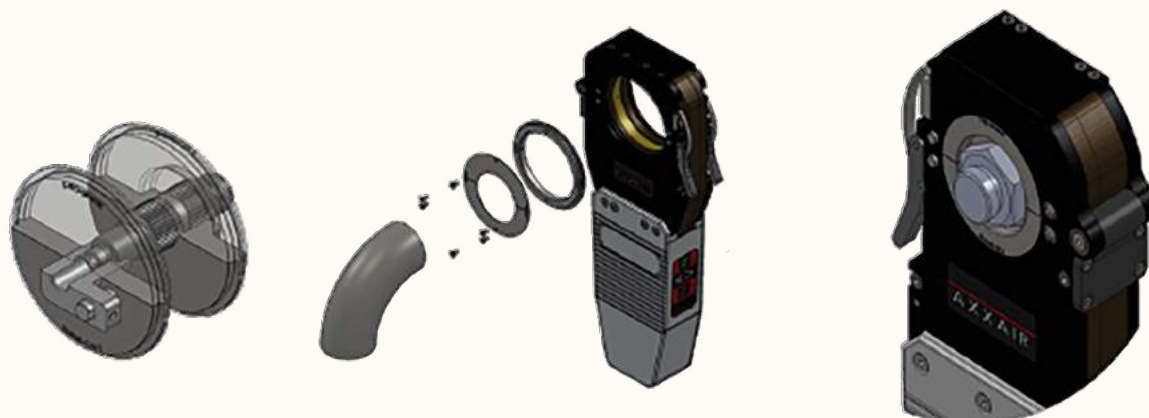
✓ SATF-65NDHX

✓ SATF-115NDHX

✓ SATF-40MIH

✓ SATF-65MIH

✓ SATF-115MIH



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



Join **experience**

Orbital welding (Closed head) - Consumables


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

This increases the life of the electrodes.

Depending on the tube used, we offer cut electrodes:

Electrodes for SATF-40xx**Customs code 8515900010**

Electrode Product Code ø1.6	Electrode Product Code ø2.4	TubeRange ø in mm	Electrode length in mm
SCE164A	SCE244A	5 to 12	29
SCE164B	SCE244B	12 to 19	25.5
SCE164C	SCE244C	19 to 26	22
SCE164D	SCE244D	26 to 33	18.5
SCE164E	SCE244E	33 to 40	15

✓ **SATF-40NDHX**

SATF-65NDHX

SATF-115NDHX

✓ **SATF-40MIH**

SATF-65MIH

SATF-115MIH

Electrodes for SATF-65xx**Customs code 8515900010**

Electrode Product Code ø1.6	Electrode Product Code ø2.4	TubeRange ø in mm	Electrode length in mm
SCE166A	SCE246A	5 to 12	43
SCE166B	SCE246B	12 to 19	39.5
SCE166C	SCE246C	19 to 26	36
SCE166D	SCE246D	26 to 33	32.5
SCE166E	SCE246E	33 to 40	29
SCE166F	SCE246F	40 to 47	25.5
SCE166G	SCE246G	47 to 54	22
SCE166H	SCE246H	54 to 61	18.5
SCE166I	SCE246I	61 to 68	15

SATF-40NDHX

✓ **SATF-65NDHX**

SATF-115NDHX

SATF-40MIH

✓ **SATF-65MIH**

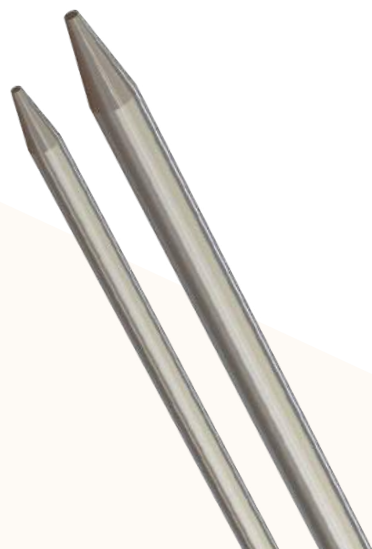
SATF-115MIH



Orbital welding (Closed head) - Consumables

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS



Electrodes

Customs code 8515900010

Electrode Product Code ø1.6	Electrode Product Code ø2.4	Tube Range ø in mm	Electrode length in mm
SCE1615A	SCE2415A	25 to 32	59.5
SCE1615B	SCE2415B	32 to 39	56
SCE1615C	SCE2415C	39 to 46	52.5
SCE1615D	SCE2415D	46 to 53	49
SCE1615E	SCE2415E	53 to 60	45.5
SCE1615F	SCE2415F	60 to 67	42
SCE1615G	SCE2415G	67 to 74	38.5
SCE1615H	SCE2415H	74 to 81	35
SCE1615I	SCE2415I	81 to 88	31.5
SCE1615J	SCE2415J	88 to 95	28
SCE1615K	SCE2415K	95 to 102	24.5
SCE1615L	SCE2415L	102 to 109	21
SCE1615M	SCE2415M	109 to 116	17.5

SATF-40NDHX

SATF-65NDHX

✓ SATF-115NDHX

SATF-40MIH

SATF-65MIH

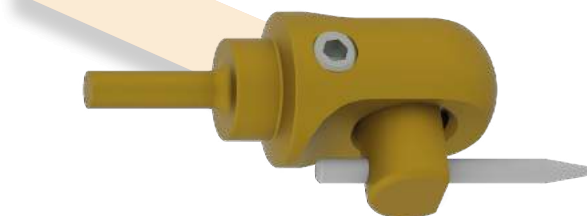
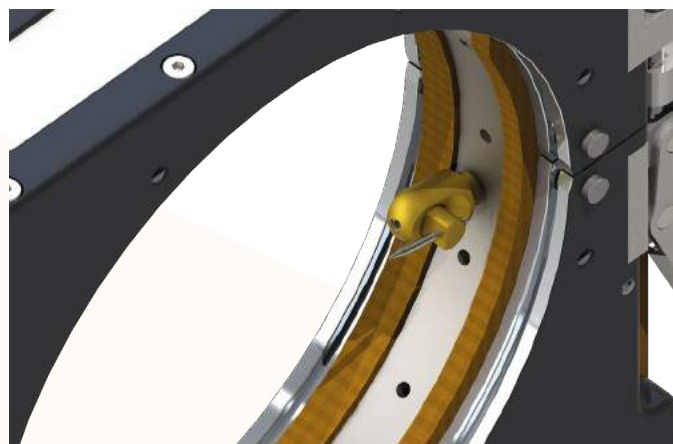
✓ SATF-115MIH



Orbital welding (Closed head) - Consumables

(Electrodes when using the SSED accessory)**AXXAIR**

INNOVATIVE ORBITAL SOLUTIONS



Electrode Prod. Code ø1.6 for SSED-16		Electrode Prod. Code ø2.4 for SSED-24		Electrode length		Ø of the tube
SCE166F		SCE246F		25.5 mm		6 to 9 mm
SCE166G		SCE246G		22 mm		9 to 23 mm
SCE166H		SCE246H		18.5 mm		16 to 23 mm
SCE166I		SCE246I		15 mm		23 to 30 mm
SCE16-12		SCE24-12		12 mm		30 to 36 mm
SATF-40NDHX	✓ SATF-65NDHX	SATF-115NDHX	SATF-40MIH	✓ SATF-65MIH	SATF-115MIH	

Electrode Prod. Code ø1.6 for SSED-16		Electrode Prod. Code ø2.4 for SSED-24		Electrode length		Ø of the tube
SCE166A		SCE246A		43 mm		25 to 26 mm
SCE166B		SCE246B		39.5 mm		26 to 33 mm
SCE166C		SCE246C		36 mm		33 to 40 mm
SCE166D		SCE246D		32.5 mm		40 to 47 mm
SCE166E		SCE246E		29 mm		47 to 54 mm
SCE166F		SCE246F		25.5 mm		54 to 61 mm
SCE166G		SCE246G		22 mm		61 to 68 mm
SCE166H		SCE246H		18.5 mm		68 to 75 mm
SCE166I		SCE246I		15 mm		75 to 89 mm
SCE16-12		SCE24-12		12 mm		82 to 89 mm
SATF-40NDHX	SATF-65NDHX	✓ SATF-115NDHX	SATF-40MIH	SATF-65MIH	✓ SATF-115MIH	



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 generator.



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?

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

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.

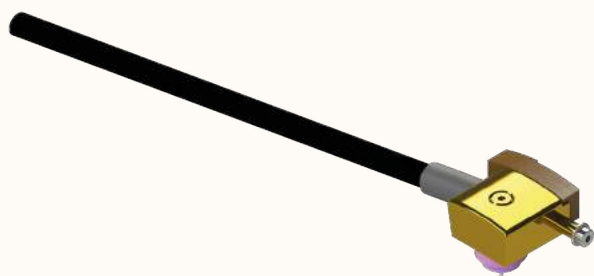
Since the AIR duty cycle is smaller than that for WATER, it is essential not to exceed the recommendations listed below.

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.

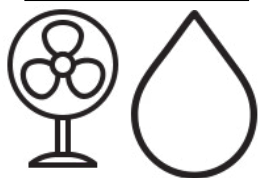
The duty cycle therefore has a significant impact on the machine use cycle. For applications requiring a high duty cycle, the welding machine must be able to meet these requirements.

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**AXXAIR**

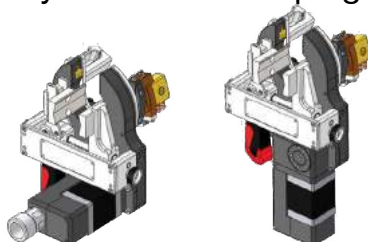
INNOVATIVE ORBITAL SOLUTIONS

**Air Cooled or
Water Cooled****Roller mechanical
profile tracking**

Constant arc
voltage without
marking the tube

**Compatible
With the
SAXX generators****Transport**

These heads are
delivered in their
individual transport
case

**Straight or
Angled motor
Symmetrical clamping****Axial
Adjustment**

Wheel
for axial
adjustment of the
position of
the electrode

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

Welding range

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



SATO-40 - 80 -115 - 170 -220

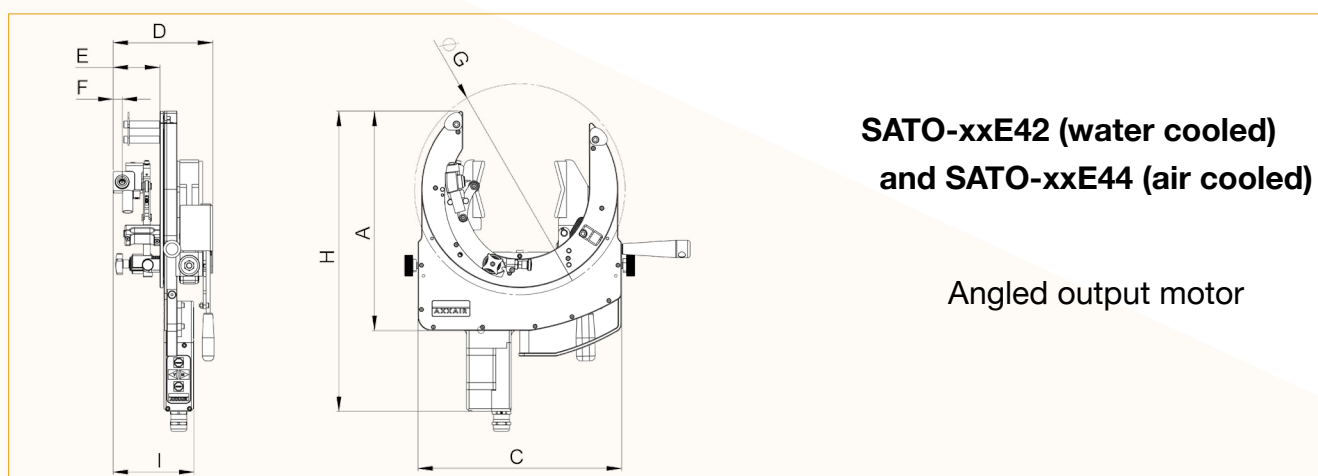
AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Technical characteristics:

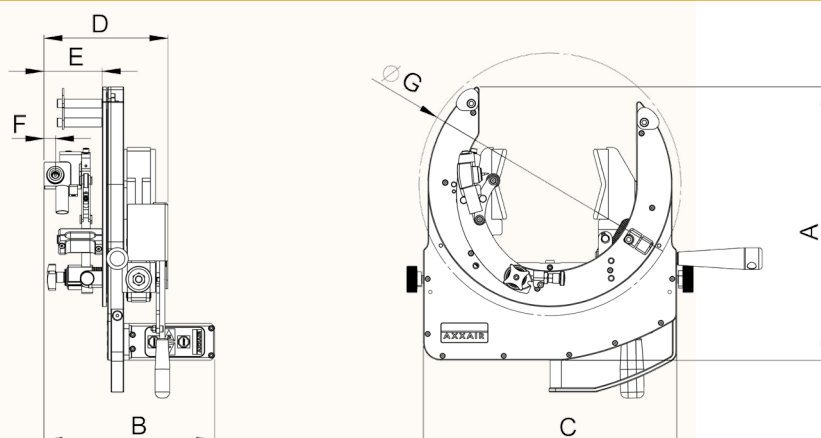
- WATER or AIR cooled head
- Mechanical profile tracking: constant arc height without marking the tube
- Quick symmetrical tightening by lever
- Motorization with encoder: allows starting from any angular position of the electrode
- Wide diameter range
- Inclination and axial adjustment of the electrode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

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



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

Straight output motor



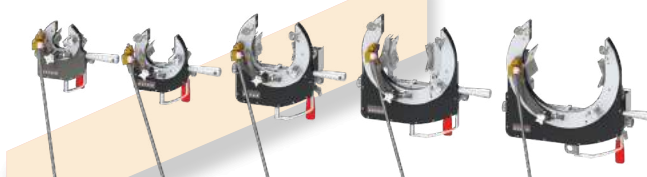
	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm
SATO-40	169	183 to 191	142	116 to 126	57 to 67	13	Ø140	270	113 to 121
SATO- 80	181	186 to 196	160	116 to 126				279	
SATO-115	265	186 to 196	230	133 to 143			Ø224	363	
SATO-170	312	186 to 196	290	133 to 143			Ø294	410	
SATO-220	353	186 to 196	350	133 to 143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



SATO-40 - 80 -115 - 170 -220

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

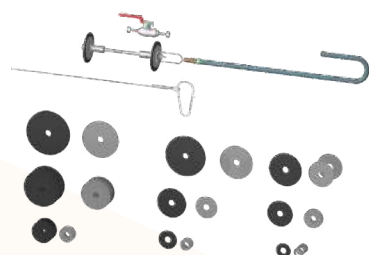


Motor	Cooling	Product Code	Welding machine for tubes of the following diameters (in mm)	Net weight	Customs code	Dimensions (AxBxC in mm)
Angled motor	WATER	SATO-40E42	ø 10 - ø 40 mm	3.8 kg	85153 10000	169 x 183 x 142
		SATO-80E42	ø 19 - ø 80 mm	4.2 kg		181 x 186 x 160
		SATO-115E42	ø 19 - ø 115 mm	6.7 kg		265 x 186 x 230
		SATO-170E42	ø 25 - ø 170 mm	8 kg		312 x 186 x 290
		SATO-220E42	ø 38 - ø 220 mm	9.4 kg		353 x 186 x 350
	NEW AIR	SATO-40E44	ø 10 - ø 40 mm	3.8 kg	85153 10000	169 x 183 x 142
		SATO-80E44	ø 19 - ø 80 mm	4.2 kg		181 x 186 x 160
		SATO-115E44	ø 19 - ø 115 mm	6.7 kg		265 x 186 x 230
		SATO-170E44	ø 25 - ø 170 mm	8 kg		312 x 186 x 290
		SATO-220E44	ø 38 - ø 220 mm	9.4 kg		353 x 186 x 350
Straight Motor	WATER	SATO-40E41	ø 10 - ø 40 mm	3.8 kg	85153 10000	169 x 191 x 142
		SATO-80E41	ø 19 - ø 80 mm	4.2 kg		181 x 196 x 160
		SATO-115E41	ø 19 - ø 115 mm	6.7 kg		265 x 196 x 230
		SATO-170E41	ø 25 - ø 170 mm	8 kg		312 x 196 x 290
		SATO-220E41	ø 38 - ø 220 mm	9.4 kg		353 x 196 x 350
	NEW AIR	SATO-40E43	ø 10 - ø 40 mm	3.8 kg	85153 10000	169 x 191 x 142
		SATO-80E43	ø 19 - ø 80 mm	4.2 kg		181 x 196 x 160
		SATO-115E43	ø 19 - ø 115 mm	6.7 kg		265 x 196 x 230
		SATO-170E43	ø 25 - ø 170 mm	8 kg		312 x 196 x 290
		SATO-220E43	ø 38 - ø 220 mm	9.4 kg		353 x 196 x 350

Orbital welding (Open heads) - Accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS



Product Code	Description	Net weight	Customs code	Packaging (in cm)
SKIF-01	Gas protection KIT	4.5 kg	85159 00090	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 <i>Inerting the tubes during welding allows more gas savings as we only inert the area to be welded.</i>				

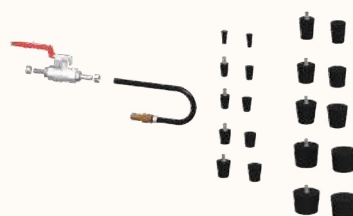
✓ SATO-40E4x

✓ SATO-80E4x

✓ SATO-115E4x

✓ SATO-170E4x

✓ SATO-220E4x



Product Code	Description	Net weight	Customs code	Packaging (in cm)
SKIB-01	Gas protection KIT	1.7 kg	85159 00090	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 <i>Facilitates and accelerates inerting. Avoids the use of adhesive paper.</i>				

✓ SATO-40E4x

✓ SATO-80E4x

✓ SATO-115E4x

✓ SATO-170E4x

✓ SATO-220E4x



Product Code	Description	Net weight	Customs code	Dimensions in mm
SATOB-02	Two axis wire guide	0.05 kg	85159 00090	51 x 90 x 65
SATO Two axis wire guide: - For use with the SAXX generators				

✓ SATO-40E4x

✓ SATO-80E4x

✓ SATO-115E4x

✓ SATO-170E4x

✓ SATO-220E4x



Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SADF2X	Wire drum	12 kg	85159 00090	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



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.

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INNOVATIVE ORBITAL SOLUTIONS

Cooling		Length	Product Code	Net weight	Customs code	Dimensions (AxBxC in mm)
AIR	WITHOUT WIRE	<div>NEW</div> 5 metres	SAFS-05MAX	7 kg	85159 00090	40 x 59 x 25
		<div>NEW</div> 10 metres	SAFS-10MAX	14 kg		40 x 59 x 25
	WIRE	<div>NEW</div> 5 metres	SAFS-05MAXF	7 kg	85159 00090	40 x 59 x 25
		<div>NEW</div> 10 metres	SAFS-10MAXF	14 kg		40 x 59 x 25
WATER	WITHOUT WIRE	<div>NEW</div> 5 metres	SAFS-05MX	7 kg	85159 00090	40 x 59 x 25
		10 metres	SAFS-10MX	14 kg		40 x 59 x 25
	WIRE	<div>NEW</div> 5 metres	SAFS-05MXF	7 kg	85159 00090	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



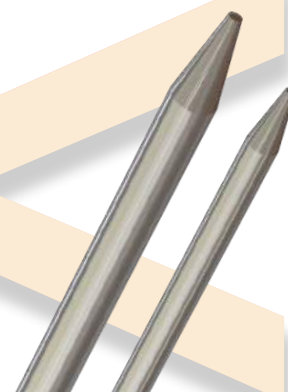
Orbital welding (Open head) - Consumables

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	Customs code	Plastic box (cm)
SCE16-50	Electrodes	0.02 kg	85159 00010	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



Product Code	Description	Net weight	Code code	Plastic box (cm)
SCE24-50	Electrodes	0.05 kg	85159 00010	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



Product Code	Description	Net weight	Customs code	Plastic box (cm)
SKTO-01	Replacement torch	0.3 kg	85159 00090	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



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!

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS



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

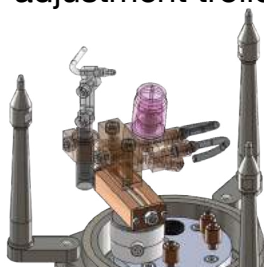


Compatible With the SAXX generators



Flexibility

Head and wire adjustment trolley

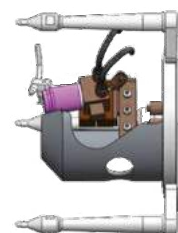


Wire holder 1 kg



Positioning stops

Adjustable stops for better tube sheet stability



Electric motor with wire feed



Welding range

SATP-80X	<p>ø 10 - ø 80 mm</p> <p>0.4 - 3 "</p>
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Join experience



SATP-80X

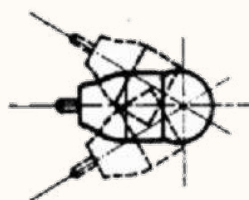
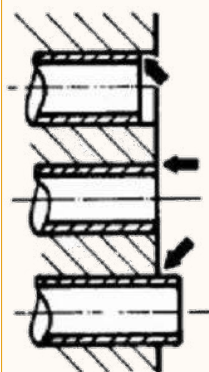
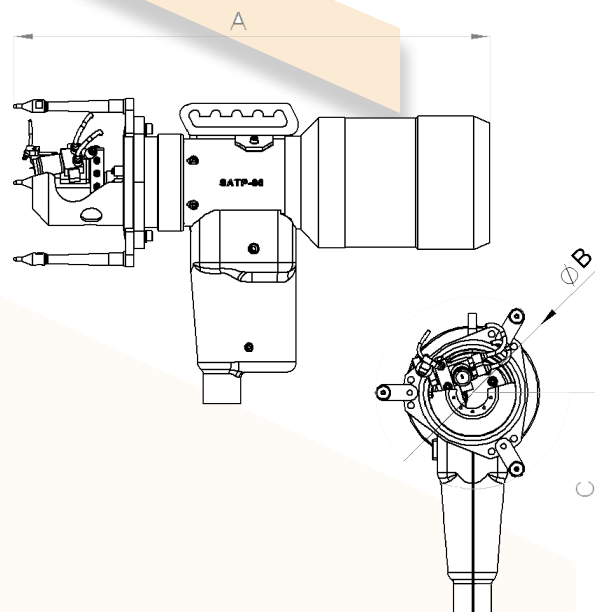
The SATP-80X covers virtually all common tube to tube sheet configurations in stainless steel as well as in titanium or black steel.



AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

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)
- Wire speed from 0 to 1.5 m / min
- 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	Customs code	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	85153 10000	451 x 182 x 210



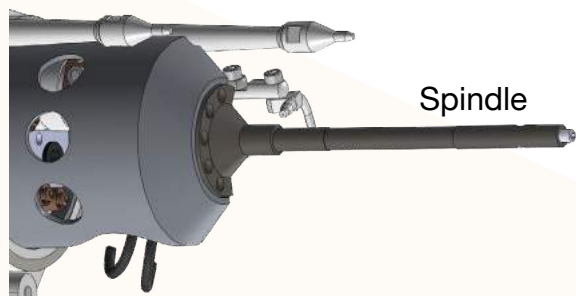
Orbital welding (Tube to tube sheet) - Accessories

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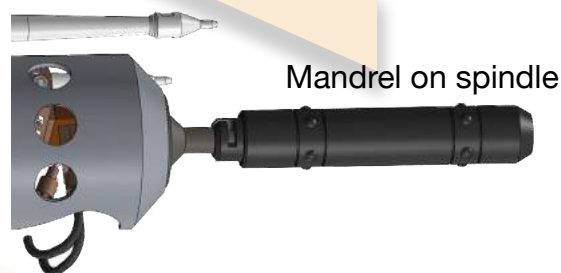
INNOVATIVE ORBITAL SOLUTIONS

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.



Spindle



Mandrel on spindle



SATP mandrels		Customs code 8515900090
SATP Centring mandrels:		
Tube inner ø (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

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

SATP mandrels (continued)**Customs code 8515900090**SATP Centring mandrels:

Tube inner ø 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**Customs code 8515900090**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	Customs code	Plastic box (cm)
SCE246B	Electrodes	0.05 kg	85159 00010	5.5 x 4.5 x 1

Electrodes ø 2.4 mm, length 39.5mm for SATP:

- Box of 10 electrodes

✓ SATP-80X



Orbital welding (welding generators)

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Our new range of AXXAIR welding generators has been designed to facilitate the use and programming of your equipment.

Intuitively, you will have access to sophisticated functions allowing you to make the most demanding welds with ease.

Particular attention has been paid to the choice of technologies used, while favouring as much as possible standard commercial components, in order to facilitate access to parts.

This flexibility will be a genuine asset for your future projects and allow you to be competitive in all your work.

FLEXIBILITY, PRODUCTIVITY

With the latest touch screen interface, we offer you all the possibilities including the most advanced while taking into account the users.

QUALITY AND REPEATABILITY

A classification system for programmes by welding configuration (diameter, wall thickness and head type) allow you to find the corresponding programme for the welding application you are looking for very easily. Each configuration can hold 9 programmes.

PORTABILITY

In order to facilitate mobility on site or in the workshop, transport trolleys for generators are recommended, thus enabling efficient management of the generator and its gas cylinder.



The axis board that controls the motors used on the heads was specifically designed to be able to control various motors and servo systems: DC, brushless, stepping motors, and also encoders and tachometers.

Here, the innovation resides in the ability to easily control the motors used in our competitors' heads so as to offer greater flexibility to our customers that already have them. A 32-pin "quickfit" connector allows interaction between our generator and AXXAIR welding heads and other brands.



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

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



SAXX-200

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

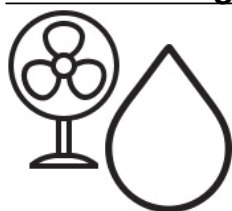
Fully-assured gas management

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



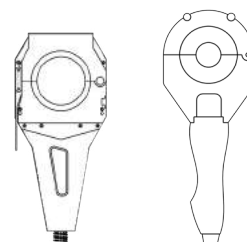
Gas flow is
controlled on the
generator using the
buttons (flow rate
displayed on the
screen)

Air Cooling or Water cooling



Compatible with closed welding heads:

AMI, Polysoude, ESAB,
Orbitec and
Orbitalum



Interface 5.7 colour touch screen + WiFi

13 languages,
possibility of remote
control by smartphone
or tablet



Acquisition and documentation

Records the last 999
welds + weldreport
(formatting of the
data and
presentation of the
instructions in the
form of demos)

Ppm measuring device

Capable of
managing
thresholds and
sending an electrical
pulse to the station
in order to start the
welding



Axis for added metal

Possibility of
using Step
mode

Cooler: removable without tools

Cooling
capacity 700 W, min flow
safety system



Integral printer:

Printing
program and
actual parameters

USB on front panel

200 programs per
stick (possible
to use several sticks)
Remote update
possible



Join **experience**



SAXX-200

AXXAIR welding generator options

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

You can now order your SAXX-200 generator with **the options you need**.

CAUTION: The options must be factory fitted. (Exception: Scool-700 cooler)

Second gas line

This second gas line allows control from the generator of **your internal inerting** and / or dual gas management of the welding torch.

- Gas savings
- Welding process safety

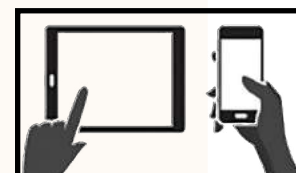


WIFI

This option includes a built-in **Wifi antenna** in the station.

The operating distance is 20-30 m depending on the environment.

We have authorized remote control via a smartphone or tablet. In fact, one application provides access to all functions, including programming.



Wire feed

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

The Axxair welding generator makes it possible to use the **step mode** and to **synchronize the wire feed** with the current pulse

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



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

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

Integral printer:

- 32 characters / line
- Print program and actual parameters



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)

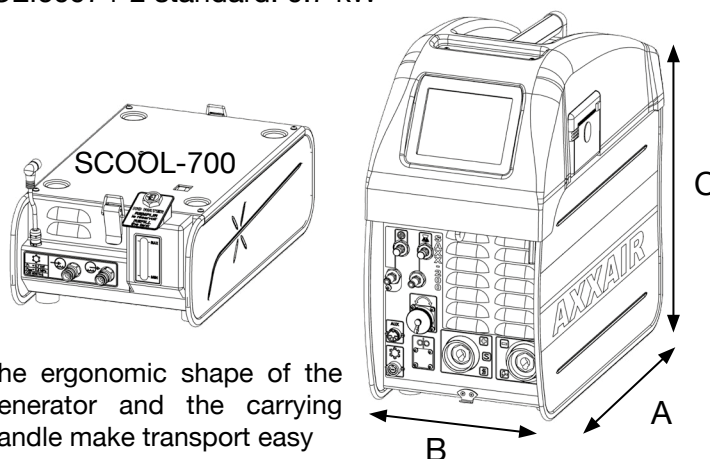
Wi-fi: (Option)

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

Cooling connector:

For SCOOOL-700 cooler only: It must be connected to a SAXX200 to operate (No standalone operation)

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



The ergonomic shape of the generator and the carrying handle make transport easy

	Product Code	Description	Net weight	Customs code	Dimensions A x B x C (mm)
NEW	SAXX-200	Orbital TIG station, 200A, auto-voltage, one line of gas, air cooled	21 kg	85153 10000	468 x 249 x 482
Option	SCOOOL-700	Cooler (water), 700W for SAXX-200	8 kg	85159 00090	468 x 249 x 146
Option	SGAS	Second digital gas line on SAXX-200	-	85159 00090	-
Option	SWIFI	Wifi antenna for SAXX-200 for remote control	-	85159 00090	-
Option	SWIRE	Wire board for SAXX-200	-	85159 00090	-



SAXX-210

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Gas management completely assured

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



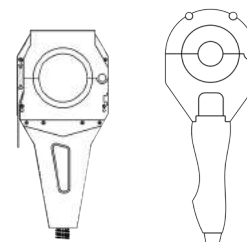
Gas flow is controlled on the generator using the buttons (flow rate displayed on screen)

Water cooling



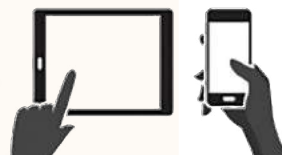
Compatible with closed welding heads:

AMI, Polysoude, ESAB, Orbitec and Orbitalum



Interface 5.7 colour touch screen + WiFi (optional)

13 languages, possibility of remote control by smartphone or tablet



Integral printer:

Printing program and real parameters

ppm measuring device

Capable of managing the thresholds by sending an electrical impulse to the station to start the welding



Axis for added metal

Possibility of using Step mode

Acquisition and documentation

Records the last 999 welds + weldreport (formatting of data and presentation of instructions in the form of demos)

Remove control display

4 m long cable

USB front panel

200 programmes per USB stick (multiple sticks can be used)
Remote update possible



SAXX-210

AXXAIR
 INNOVATIVE ORBITAL SOLUTIONS


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:

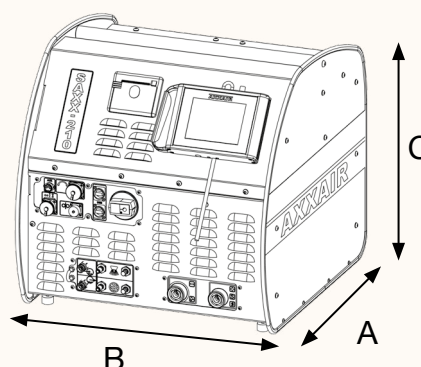
- Possibility of triggering the welding start via an oxygen meter (dry contact).

Cooling connector:

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

Wi-fi: (Option)

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



	Product Code	Description	Net weight	Code code	Dimensions A x B x C (mm)
NEW	SAXX-210	Orbital station 210 A., with double gas lines and wire axis	44 kg	85153 10000	562 x 620 x 545
Option	SWIFI	Wifi antenna for SAXX-210 for remote control	-	85159 00090	-



SAXX accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS



Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SACG-X200	Trolley	22 kg	81515 900090	117 x 51 x 57
Trolley for SAXX-200 generator: - Module for transporting the SAXX-200 welding station and gas cylinders up to 10.5 m ³				

✓ SAXX-200

SAXX-210



Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SACG-300	Trolley	55 kg	81515 900090	83 x 56 x 118
Trolley for SAXX-210 generator: - Module for transporting the SAXX-210 welding station and gas cylinders up to 10.5 m ³				

SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SPPM-10	PPM reader	2 kg	81515 900090	12 x 6 x 15
PPM reader compatible with SAXX generators: - 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				

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SAFS-G01	Gas splitter pipe	0.2 kg	81515 900090	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

SAXX accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS



Product Code	Description	Net weight	Customs code	Dimensions
SAFS-ADAMI1	Adapter kit	1.2 kg	85159 00090	L < 40 cm

Adapter kit for connecting the following heads to SAXX generators:

- AMI Models 8 and 9
- SATF-xxMI and SATF-xxMIH

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Customs code	Dimensions
SAFS-ADORBI1	Adapter kit	1.2 kg	85159 00090	L < 50 cm

Adapter kit for connecting the following heads to SAXX generators:

- Orbitalum ORBITALWELD models (ORBIWELD38S, ORBIWELD76S and ORBIWELD115S)

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Customs code	Dimensions
SAFS-ADPOLY1	Adapter kit	0.9 kg	85159 00090	L < 50 cm

Adapter kit for connecting the following heads to SAXX generators:

- 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	Customs code	Dimensions
SAFS-ADORBITEC	Adapter kit	0.3 kg	85159 00090	L < 50 cm

Adapter kit for connecting the following heads to SAXX generators:

- Orbitec models: OSW40, OSW80 and OSW170

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Customs code	Dimensions
SAFS-ADESAB	Adapter kit	0.5 kg	85159 00090	L < 50 cm

Adapter kit for connecting the following heads to SAXX generators:

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

✓ SAXX-200

✓ SAXX-210

SAXX accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS



Product Code	Description	Net weight	Customs Code	Dimensions (in cm)
SAFS-AD01	Adaptor	0.411 kg	85159 00090	l : < 35 cm

Adaptor for new generations of welding heads:

- SATF-xxNDX
 - SATF-xxNDHX
 - SATO-xxE41 - SATO-xxE42 - SATO-xxE43 - SATO-xxE44
- on welding power sources SASL

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Customs Code	Dimensions (in cm)
SAFS-AD02	Adaptateur	0.48 kg	85159 00090	l : 35 cm

Adaptor for previous generation of welding heads:

- SATF-xxND
 - SATO-xxE01 et SATO-xxE02
- on new power sources SAXX

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Customs code	Packaging (in cm)
SAMD-NL	Pressure regulator	1.1kg	81515 900090	16 x 14.5 x 17

Pressure regulator 30 l / min compatible with:

- Finland, Netherlands, Sweden, Denmark

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Customs code	Packaging (in cm)
SAMD-FR	Pressure regulator	1.1kg	81515 900090	16 x 14.5 x 17

Pressure regulator 30 l / min compatible with:

- Algeria, Angola, France, Greece, Syria, Tunisia, Sudan, Lebanon, Morocco, Portugal, Gabon, Ivory Coast, Senegal, Chad, Mauritania, Congo, Guinea, Mali, Belgium

✓ SAXX-200

✓ SAXX-210



SAXX accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS



Product Code	Description	Net weight	Customs code	Packaging (in cm)
SAMD-AL	Pressure regulator	1.1kg	81515 900090	16 x 14.5 x 17

Pressure regulator 30 l / min compatible with:

- Germany, Austria, Bosnia Herzegovina, Croatia, Hungary, Israel, Switzerland, Macedonia, Montenegro, Poland, Serbia, Slovenia, Korea, Czech Republic

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Customs code	Packaging (in cm)
SAMD-UK	Pressure regulator	1.1kg	81515 900090	16 x 14.5 x 17

Pressure regulator 30 l/min compatible with:

- South Africa, Saudi Arabia, Brunei, Egypt, United Arab Emirates, Hong Kong, India, Singapore, Yemen, Indonesia, Iraq, Ireland, Jordan, Kuwait, Liberia, Libya. Sri Lanka, Malaysia, Malta, New Zealand, Nigeria, Pakistan, Peru, United Kingdom, Vietnam

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SATMX-E	TIG Manual torch	2.1kg	81515 900090	22 x 22 x 22

TIG Manual torch **water cooled**:

- Allows manual tacking and welding with the SAXX stations

✓ SAXX-200 (WATER cooled)

✓ SAXX-210



Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SADF2X	Wire dispenser	12 kg	85159 00090	59.7 x 38.4 x 24

Wire Dispenser for SAXX, cable sheath 5 m max:

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

✓ SAXX-200

✓ SAXX-210



SAXX consumables

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS



Product Code	Description	Net weight	Customs code	Packaging (in cm)
SACW-C006	Cooling liquid	3.3kg	38200 00090	15 x 15 x 27
<u>Cooling liquid (3l container)</u>				

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Customs code	Packaging (in cm)
SIMP-02	Rolls printer	0.7kg	85159 00090	29 x 9.5 x 5
<u>Rolls for integrated printer (set of 10)</u>				

✓ SAXX-200

✓ SAXX-210



Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SUSBX200	USB stick	0.02kg	85159 00090	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

NEW



Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SUSBX210	USB stick	0.02kg	85159 00090	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.

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

✓ 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

Find a solution to your problems and repair your machines as soon as possible.

Count on our after-sales service, always listening to you!



Join experience

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

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