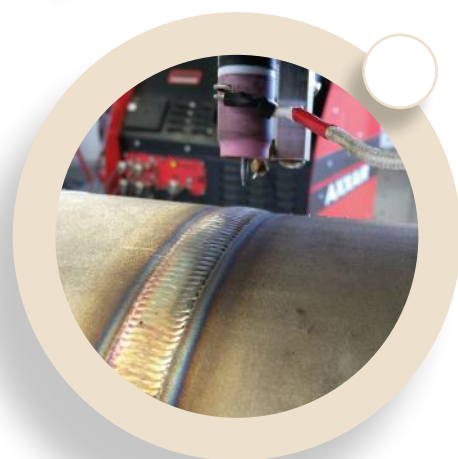
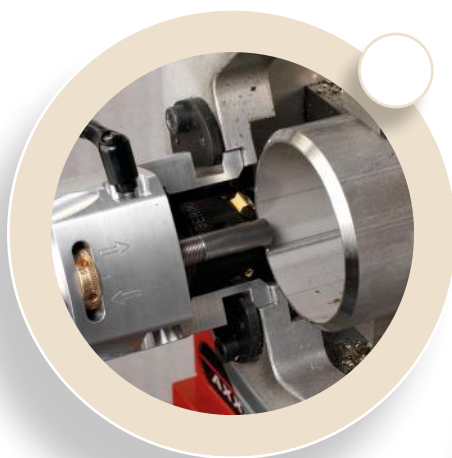


AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Product catalogue

Cutting, **beveling** & orbital **welding** machines
for **thick walled tubes** > 3 mm wall thickness



Join **experience**

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

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.

**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.



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.



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.



High quality for transporting fluids

A wide range of industries use tubes to transport fluids. The more sensitive the fluid, the more attention needs to be paid to all the connections, the majority of which are welded: tube to tube or tube to T or tube to elbow, for example.

The majority of tubes are made from stainless steel, in order to avoid corrosion and reactions between the tube and the fluid.

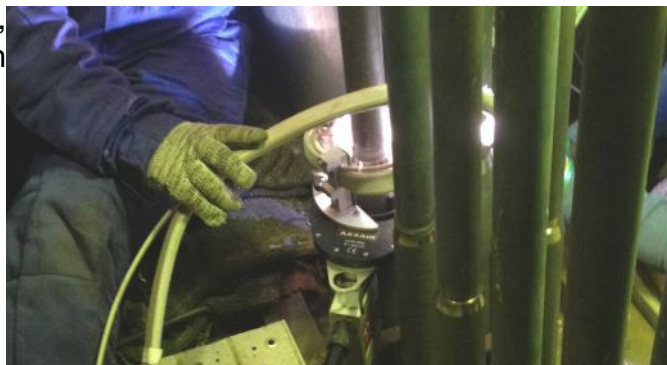
AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

The chemical and petrochemical industry

The fluids transported within these industries' facilities are among the most corrosive and therefore require thick walled tubes known as "pipes". These pipes are often made from stainless steel or other highly corrosion-resistant refractory materials, as well as black steel.

These pipes are cut, bevelled and then assembled by orbital welding. Depending on their wall thickness, pipes are welded using straightforward filler wire or using AVC and oscillation systems.



The energy industry

Conventional coal, nuclear or solar energy generation industries use pipes to withstand operating pressures.

This industry occasionally uses TIG orbital welding to allow welds to be inspected - 100% of welds are frequently inspected (thermal solar).

Pressurized steam is often transported and requires perfect control of welded joints for continuous use.

Shipbuilding

Shipbuilding often requires a large quantity of pipes with large wall thicknesses.

Their installation in confined spaces is often facilitated by the use of an orbital welding machine, because access is limited for welders.

Other markets

Seawater desalination systems also use pipes, as salt water corrodes tubes.

Compressed air pipework systems use large diameter pipes with large wall thickness (5 to 6 mm) in order to have sufficient strength.



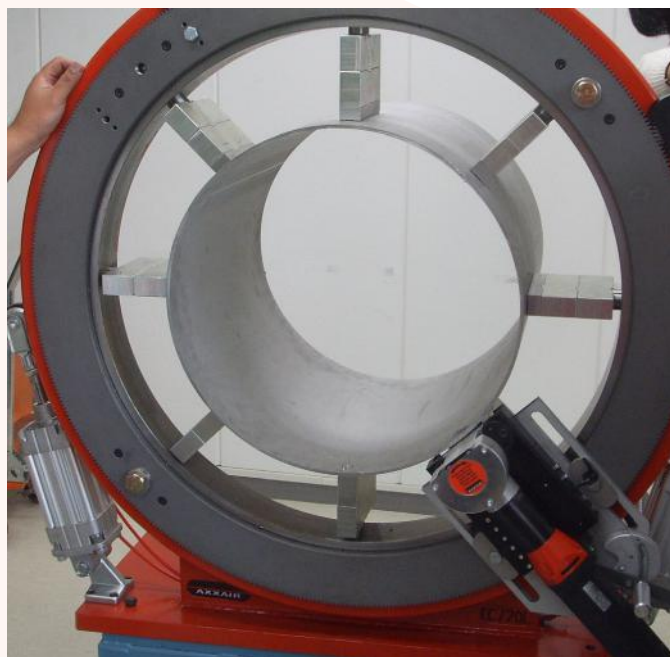
AXXAIR's orbital cutting

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INNOVATIVE ORBITAL SOLUTIONS

High quality cutting is guaranteed by orbital cutting machines, where the saw blade rotates around the tube.

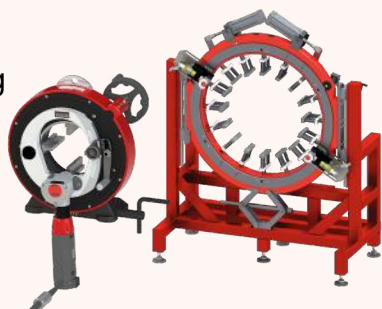
This allows the tube geometry to remain intact: the tube is not distorted by clamping (stainless steel concentric jaws) or by cutting forces, as the blade follows the tube section and the tube does not rotate.



Orbital cutting is well suited to automatic welding, as it allows the seam to be closed cleanly providing a perfect seal for the penetration phase before adding the wire.

AXXAIR has the **largest orbital cutting range in the world**

with 11 different models for cutting tubes with diameters from **5 to 1100 mm!**



FLEXIBILITY, PRODUCTIVITY

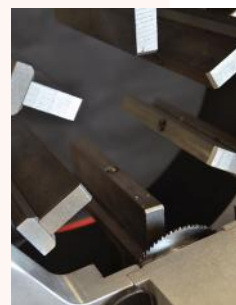
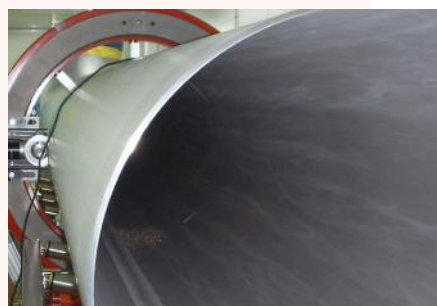
AXXAIR frames are quickly and easily scalable for bevelling and orbital welding.

QUALITY

Cutting with no tube distortion, (multi-contact concentric clamping) ideal for thin walled stainless steel tubes. High quality geometric cutting (perpendicularity of <0.25 mm) and excellent surface quality (limited burring).

PORTABILITY

Portable machines, which are easy to move and can be used both on site or in a workshop. Perfect preparation for thick tubes before bevelling and welding with filler wire.



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!



NEW PRODUCTS in the CCx22 orbital cutting range

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.



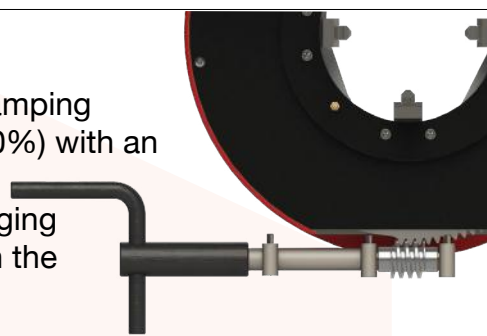
Robustness



Easy handling

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

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

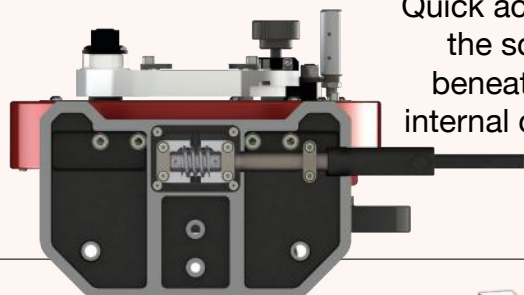


Easy maintenance and inspection

The internal clamping components are lubricated using a greaser

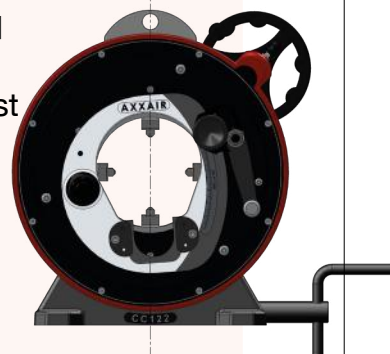
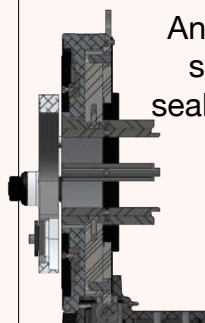


Quick access to the screw beneath the internal cowling

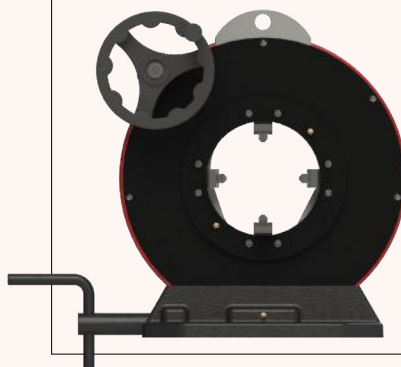


A perfect seal against chips

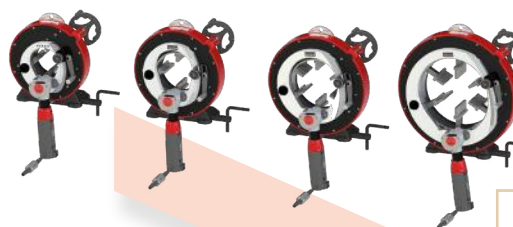
An improved system of sealing against chip



All rotating parts are incorporated into the body.



122 - 172 - 222 - 322



AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

No tube distortion

Concentric clamping



Stainless steel basic
and
auxiliary jaws as
standard

Cutting quality

Rotation handle as
standard

Uptake

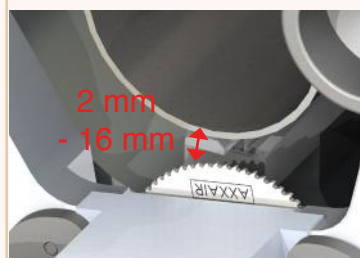
Dual output cutting
motor
with 2 blade
positions

Cutting precision

Perpendicularity of
< 0.25 mm

**Reduced vibration
and increased blade
life**

Optimised blade to jaw
distance



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

Cutting capacity:
Up to a wall
thickness of 15 mm*

Scalability

Can be transformed
into an orbital
bevelling and welding
machine

Continuous use

Electric rotary seal with
anti-twist cable

**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 "

*depending on the type of steel



122- 172 - 222- 322

Technical specification:

- Low-speed motor:

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

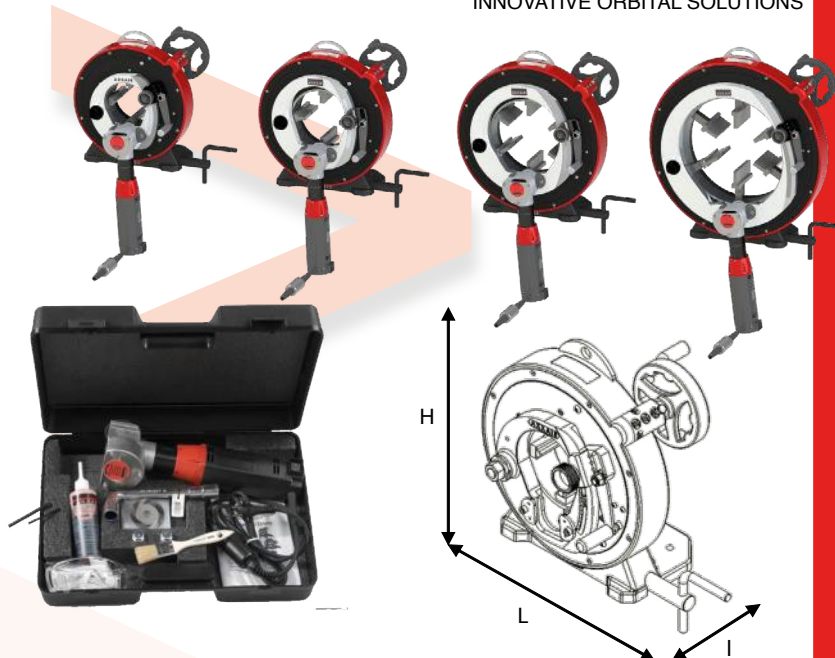
Vibration level in accordance with standard EN 28662: <2.5m/s², Protection class: IP 20

Rotation speed (6 speed variations)
from 30 RPM to 75 RPM

- Pneumatic motor:

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

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

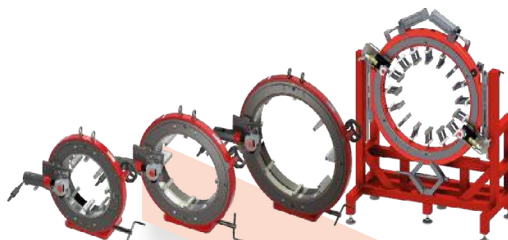


	Product Code	Tube cutting machine for the following diameters (in mm):		Net weight	Customs Code	Dimensions (HxLxW in mm)
		With basic jaws	With extra jaws (included)			
120V 1200W low-speed motor	NEW 122FS15	Ø29 - Ø119	Ø5 - Ø99	44 kg	846150 9000	443 x 541 x 304
	NEW 172FS15	Ø74 - Ø173	Ø16 - Ø116	51 kg		493 x 566 x 304
	NEW 222FS15	Ø128 - Ø228	Ø55 - Ø155	59 kg		548 x 594 x 304
	NEW 322FS15	Ø230 - Ø328	Ø141 - Ø239	71 kg		649 x 644 x 304
230V 1200W low-speed motor	NEW 122FS25	Ø29 - Ø119	Ø5 - Ø99	44 kg	846150 9000	443 x 541 x 304
	NEW 172FS25	Ø74 - Ø173	Ø16 - Ø116	51 kg		493 x 566 x 304
	NEW 222FS25	Ø128 - Ø228	Ø55 - Ø155	59 kg		548 x 594 x 304
	NEW 322FS25	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

AXXAIR

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

Perpendicularity of
< 0.4 mm

Easy handling and transportation



1200W or pneumatic motor
(as required)

Cutting capacity:
Up to a wall thickness of 15 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"

*depending on the type of steel

Join **experience**



421-521-721-1100

AXXAIR
 INNOVATIVE ORBITAL SOLUTIONS

Technical specification:

- Low-speed motor:

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

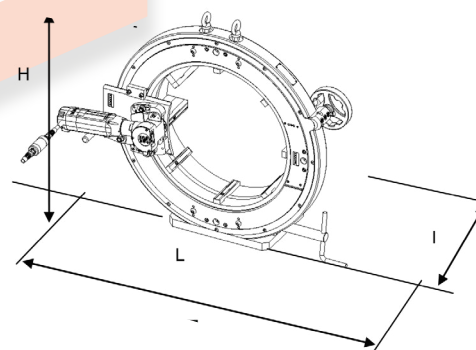
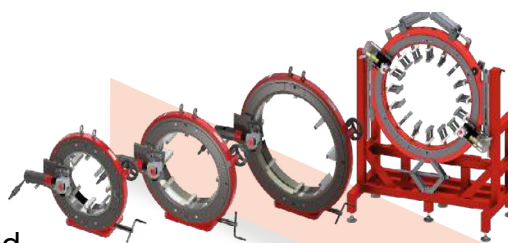
Vibration level in accordance with standard EN 28662: <2.5m/s², Protection class: IP 20

Rotation speed (6 speed variations)
from 30 RPM to 75 RPM

- Pneumatic motor:

60 to 110 rpm, air flow 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 low-speed motor	421FS15	Ø350 - Ø422	Ø212 - Ø352	186 kg	84615 09000	802x838x315
	521FS15	Ø450 - Ø522	Ø312 - Ø452	223 kg		905x889x315
	721FS15	Ø653 -Ø725	Ø447 - Ø654	256 kg		1104x1077x315
230V 1200W low-speed motor	421FS25	Ø350 - Ø422	Ø212 - Ø352	186 kg	84615 09000	802x838x315
	521FS25	Ø450 - Ø522	Ø312 - Ø452	223 kg		905x889x315
	721FS25	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 request				



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 legs	10 kg	84669 37000	103 x 32 x 11

Support legs for orbital cutting machines:

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

✓ 122	✓ 172	✓ 222	✓ 322	421	521	721	1100
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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

Simple stand for supporting tubes with height adjustment:

- quick assembly and dismantling
- height adjustment

✓ 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:

- quick assembly and dismantling
- height adjustment
- facilitates tube feeding after each cut

✓ 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	Height-adjustable tube support bench	57 kg	84669 37000	184 x 95 x 51
Height-adjustable support bench, 1.5m - stainless steel rollers - height adjustment handle - 1.5 m long - maximum load 350 kg uniformly distributed - min tube ø: 5 mm - max tube ø: 321 mm - compatible with machines 121 to 321				

✓ 122

✓ 172

✓ 222

✓ 322

421

521

721

1100



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: - stainless steel rollers - 1.5 m long - maximum load 350 kg uniformly distributed - min tube ø: 5 mm - max tube ø: 321 mm - compatible with machines 121 to 321				

✓ 122

✓ 172

✓ 222

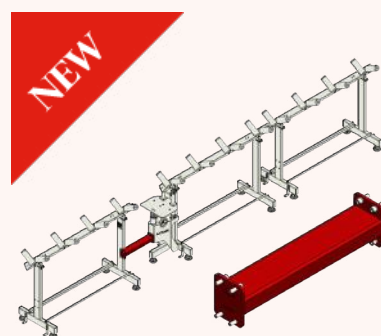
✓ 322

421

521

721

1100



Product Code	Description	Net Weight	Customs Code	Dimensions (in mm)
CCBSB-B005	Connecting bar	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				

✓ 122

✓ 172

✓ 222

✓ 322

421

521

721

1100

NEW

Orbital Cutting - Accessories (End stop)

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

In addition to our CCBB-X1 and CCBB-X2 benches, we offer benches with an end stop system.

These stops are very simple to use and avoid all measurement errors.

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.



✓ 122

✓ 172

✓ 222

✓ 322

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NEW

Orbital Cutting - Accessories (End stop)

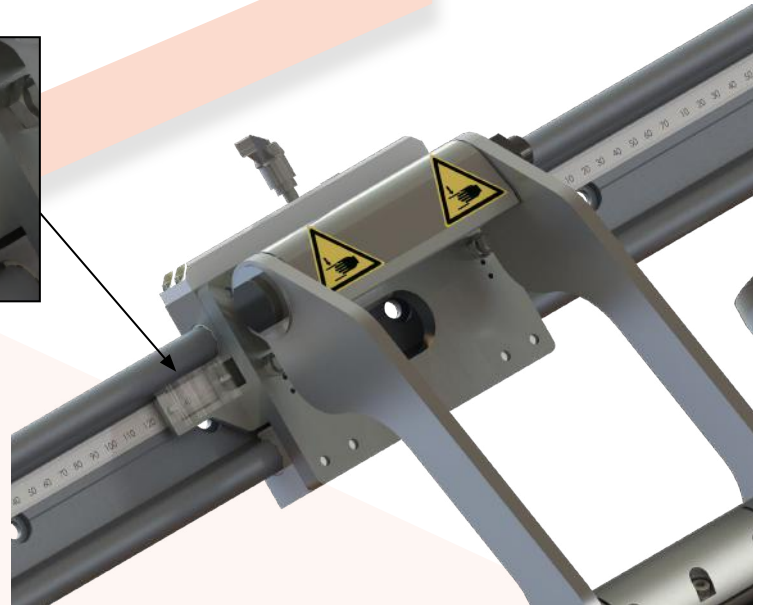
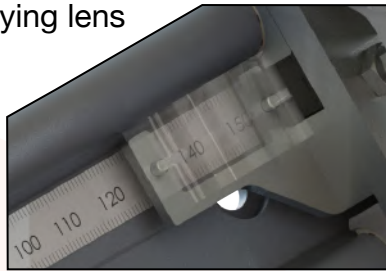
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INNOVATIVE ORBITAL SOLUTIONS

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

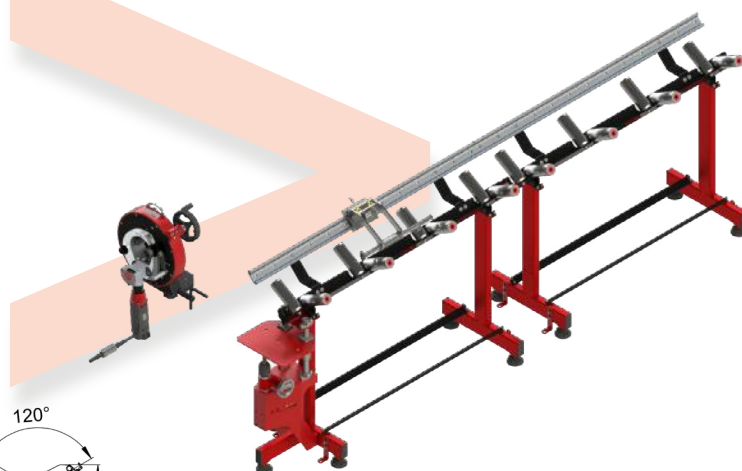
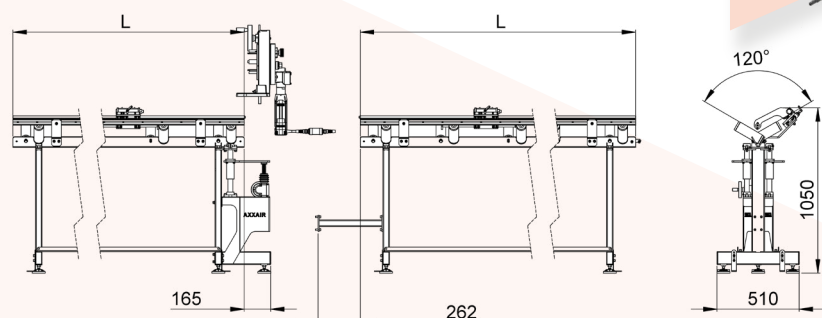
Orbital Cutting - Accessories (End stop)

AXXAIR
 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	
✓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).

NEW

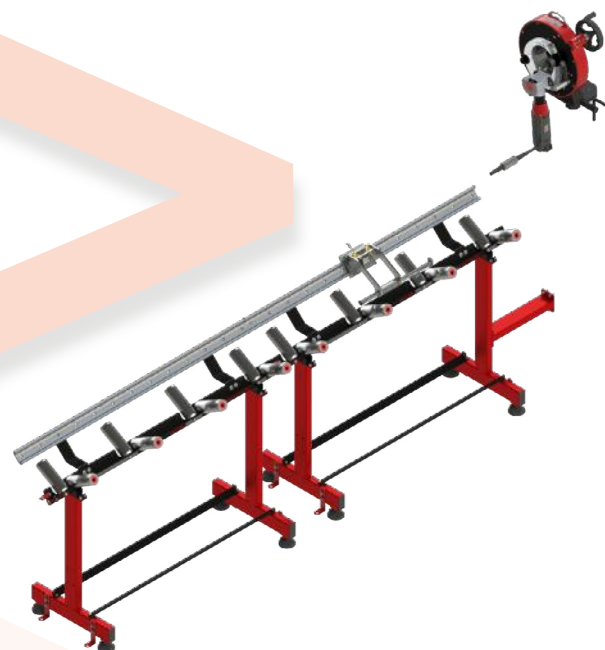
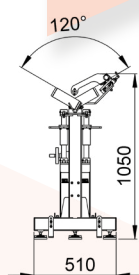
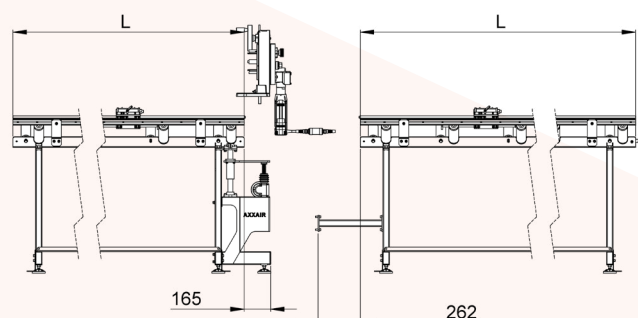
Orbital Cutting - Accessories (End stop)

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	
✓ 122	✓ 172	✓ 222	✓ 322	421	521	721	1100



Orbital Cutting - Accessories

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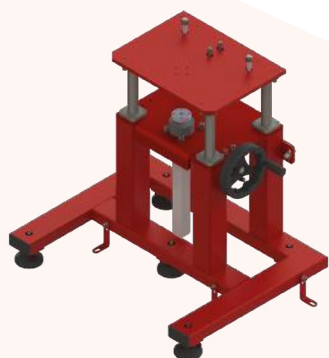
INNOVATIVE ORBITAL SOLUTIONS

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



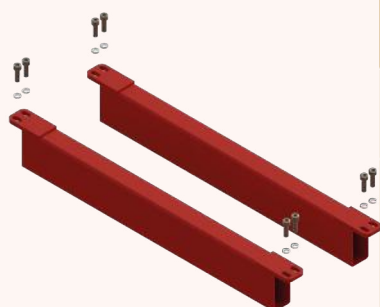
Product Code	Description	Net weight	Customs Code	Dimensions (in mm)
CCBSB2-003	Height-adjustable table	53.5 kg	84669 37000	
Height-adjustable table for 422 / 521 / 721: - adjustable table height - optimum stability				

122	172	222	322	✓ 421	✓ 521	✓ 721	1100
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Product Code	Description	Net Weight	Customs Code	Dimensions (in mm)
CCBSB2-004	Tube 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				

122	172	222	322	✓ 421	✓ 521	✓ 721	1100
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Product Code	Description	Net weight	Customs Code	Dimensions (in mm)
CCBSB2-005	Connecting bar	6.5 kg	84669 37000	
Connecting bar between two CCBSB2 support benches: - quick assembly and dismantling - ensures optimum stability				

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

✓ 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

122	172	222	322	✓ 421	✓ 521	✓ 721	1100
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Orbital Cutting - Consumables

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 thicknesses of		Blade ø	Number of teeth
LS6844	2 to 7mm	0.08 – 0.28"	68 mm	44
LS8034	5 to 12 mm	0.20 – 0.47"	80 mm	34
LS8054	2 to 7 mm	0.08 – 0.28"	80 mm	54
LS9038	5 to 15 mm	0.20 – 0.59"	90 mm	38
LCA9028A (sold individually)	4 to 15 mm	0.15 – 0.59"	90 mm	28
For cutting carbon steel ONLY and ONLY with a FS29/ FS19 high-speed motor. Cutting is performed WITHOUT lubricant.				
LC300 (sold individually)	30 ° bevelling blade		78 mm	20
LC375 (sold individually)	37.5 ° bevelling blade		78 mm	20



✓ 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

✓ 122

✓ 172

✓ 222

✓ 322

✓ 422

✓ 521

✓ 721

✓ 1100



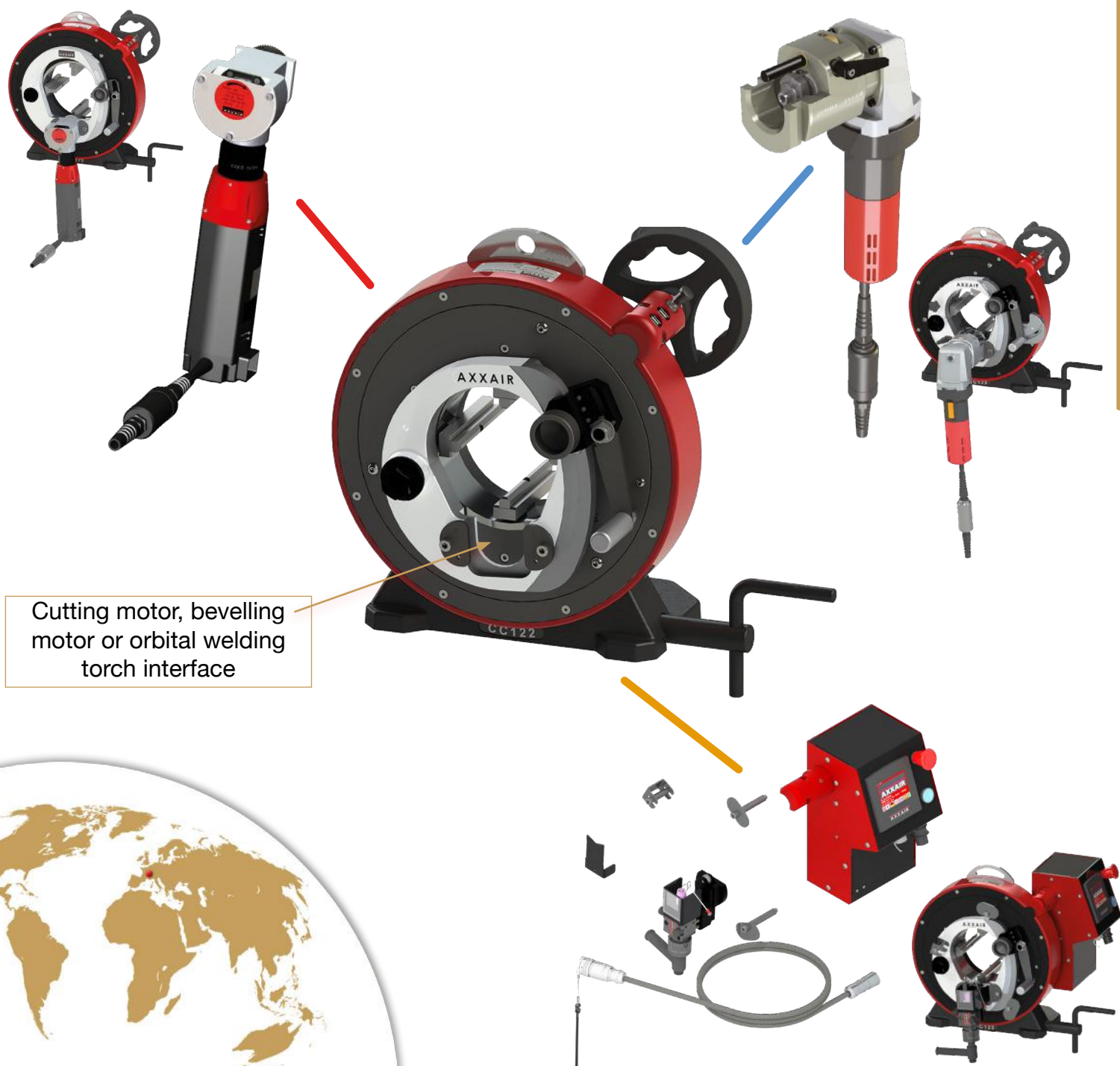
AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

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.



Join experience

1 machine - 3 applications

AXXAIR

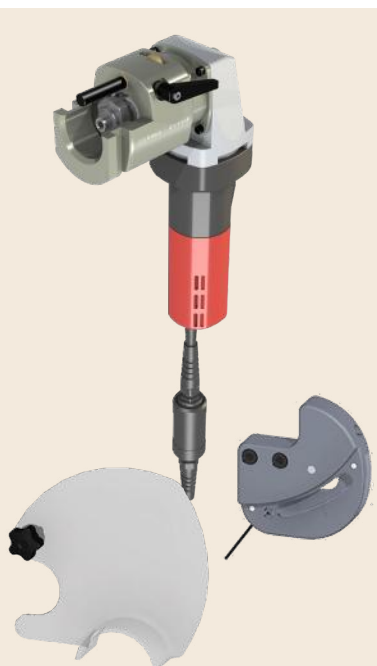
INNOVATIVE ORBITAL SOLUTIONS



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: FS19	172	
230V	Low-speed motor: FS25	222	
	High-speed motor: FS29	222	
Pneumatic	MOPD	322	



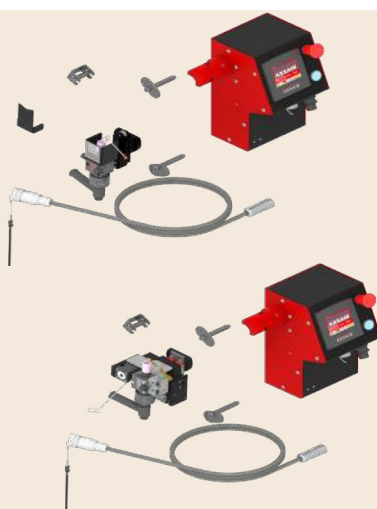
Product Code	Description	Net Weight	Customs Code
GA10 - x - xx	Bevelling motor kit	5 kg	8466937000

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	



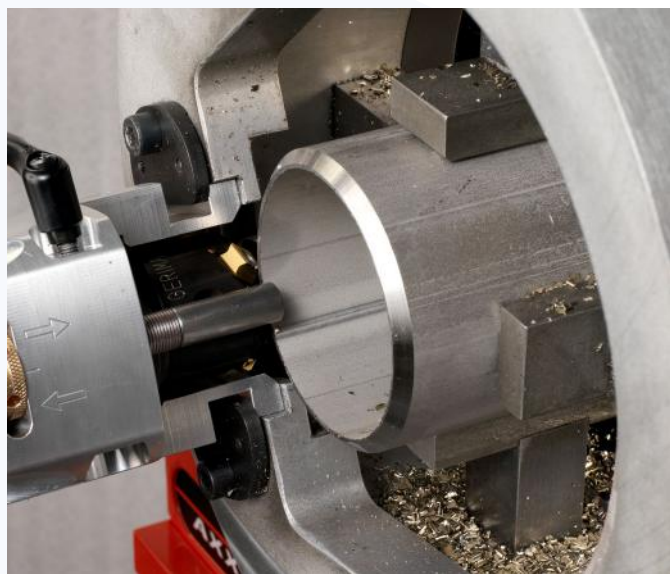
AXXAIR's orbital beveling

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

The success of an orbital weld relies primarily on preparation of the parts to be welded. Of the various preparation steps, a good quality bevel, which is suitable for the welding process, is essential.

Following orbital cutting, the face of the tube is perfectly perpendicular and free of burrs. At this point, beveling is essential to ensure that the weld bead's geometry is appropriate, particularly on the inside (penetration).



Above a thickness of 3 mm, simple fusion involves a melt volume that is too significant to guarantee proper geometric control of the weld bead. To remedy this, beveling reduces the quantity of material to be fused in order to achieve proper penetration.

As a result, several passes are usually needed to finish the weld bead (filling and finishing). The bevel shape is created by the welding equipment used.

AXXAIR'S UNIQUE AND PATENTED CONCEPT

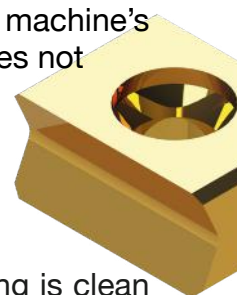
AXXAIR's orbital beveling machines use a carbide milling head rotating at high speed to remove a large quantity of chips in **a single rotation of the tool around the tube** (orbital).

This patented process avoids the need for lubricant: no more cleaning/washing of parts before welding! The carbide inserts' ability to remove chips is 10x greater than those used traditionally with HSS tools (High-speed Steel).

FLEXIBILITY, PRODUCTIVITY

Implementation, setting/adjustment and beveling are quick and easy. Each machine's diameter range is very broad and does not require specific jaws.

AXXAIR's frames are **scalable** for orbital cutting and welding.



QUALITY

The surface created by carbide milling is clean and free of burrs and is, therefore, ready for welding.

Our process also includes a workpiece guide outside the tube, which takes account of "pipe" ovalisation defects. This ensures that the bevel is more uniform over the entire circumference.

PORTABILITY

Portable machines, which are easy to move and can be used both on site or in a workshop. Perfect preparation for thick tubes before welding with filler wire.



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

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



AXXAIR's orbital beveling

- V- or J-Bevel? -

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

There are two types of bevel, which depend on the manual or automatic welding process used: the V-bevel and the J-bevel (or "Tulip").

These names relate to the fact that, when assembled, the two prepared edges assume the shape of these letters.

In orbital welding, the two root faces of the bevelled parts are placed in contact with each other.

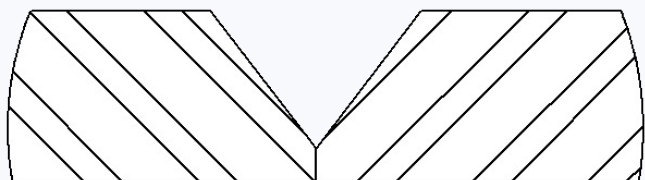
All that is required is a simple fusion of the two root faces and for the bevel to be subsequently filled with wire.

V-bevel

For manual TIG welding, a V-bevel is preferable, with or without a root face, depending on the manner in which the parts are married. It is called a V-bevel as, once the parts have been married, the resulting shape looks like the letter V.

The root face generally prevents the edges being distorted when the parts are handled, along with a collapse on the first pass (penetration).

For manual welding, the parts are married leaving a small gap, which specifically allows the wire to be inserted manually, including from inside the tube (penetration geometry). The bevel angles routinely used are 30, 37.5 and 45°.

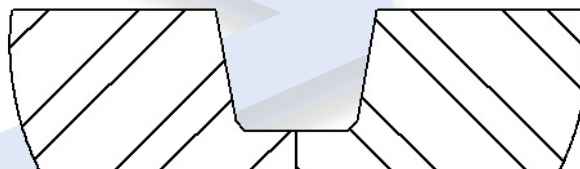


These angles are determined by the application, the thickness of the parts to be welded and the material used. We offer 3 milling heads for orbital V-bevels, each corresponding to one of these angles.



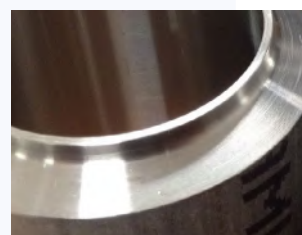
J-bevel (tulip)

This shape is essential for automated welding, especially for orbital welding.



The root face of this type of bevel enables a delicate "tube-tube" type assembly to be created; this generally allows for a single fusion penetration, which represents a better way of precisely controlling the penetration's geometry. This type of preparation also reduces the volume of metal required to fill the bevel. The angle of a J-bevel is shallower (generally 15 to 20°) depending on the application.

The root face must be sufficiently long to allow a single fusion bead to be created, without overlapping onto the edges of the bevel: a root face thickness of 1.6 to 2 mm with a root face length of 2 to 2.5 mm. These adjustments are easily made and relate to the carbide milling head (unlike adjustment using HSS tools).



As the accessories (elbows, T unions, flanges, etc.) are generally prepared with V-bevels, many welds will need to be of the V-J type, which is difficult to achieve. Consequently, the quality of orbital welding accessories is generally a key criteria to be taken into consideration.



Contact us to find the perfect solutions for your needs!



NEW PRODUCTS**in the CCx22 orbital beveling range****AXXAIR**

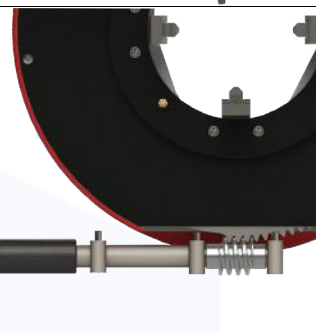
INNOVATIVE ORBITAL SOLUTIONS

Customer satisfaction and our continuous improvement policy have led our developers to redesign part of our beveling 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**

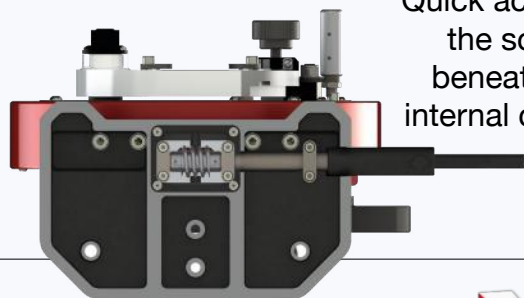
Introduction of a lifting eye for use in a workshop or on site.

**Easy maintenance and inspection**

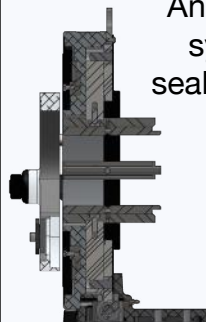
The internal clamping components are lubricated using a greaser



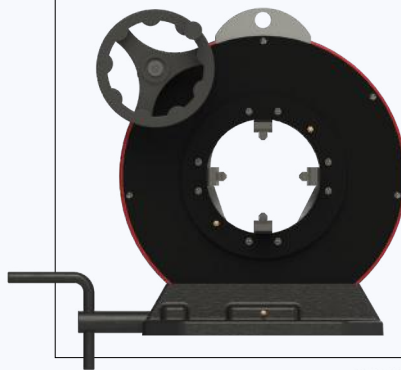
Quick access to the screw beneath the internal cowling

**A perfect seal against chips**

An improved system of sealing against chip



All rotating parts are incorporated into the body.



GA 122 - 172 - 222 - 322

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

No tube distortion

Concentric
clamping



Stainless steel basic
and
auxiliary jaws
as standard

**V-bevel or J-bevel
without lubricant**

Screwed-on carbide
inserts, 10x faster than
HSS inserts



Global Process

Can be transformed
into an orbital cutting
and welding
machine

Continuous use

Electric rotary seal with
anti-twist cable

Tool life

Rotation handle
as standard:
increases the life of
tools

Workpiece guide

Workpiece guide
that takes account of
the
ovality of tubes



**1500 W
motor**

Supplied with a chip
shield



**Easy handling and
transportation**



Beveling range

122	ø15 - ø119 mm ø5/8" - ø4,5 "
172	ø33 - ø173 mm ø1,3 - ø6,625 "
222	ø55 - ø228 mm ø2.35 to ø8,625 "
322	ø141 - ø328 mm ø5,5 to ø12,75 "



GA 122 - 172 - 222 - 322**Technical specification:**

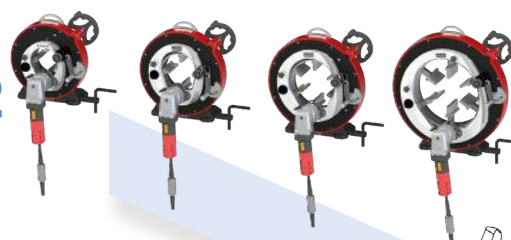
- **1500 W, 120 V or 230 V motor**

Vibration level in accordance with standard EN 28662: <2.5m/s², Protection class: IP 20

Rotation speed (6 speed variations)
from 2200 RPM to 6500 RPM

- V-bevel at 30°, 37.5° or 45° or J-bevel at 10°
depending on the milling head.

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

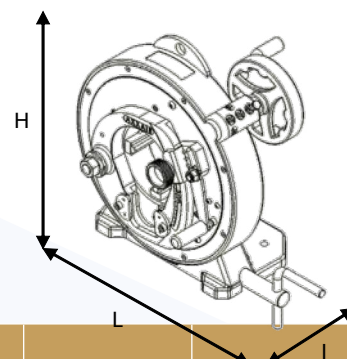
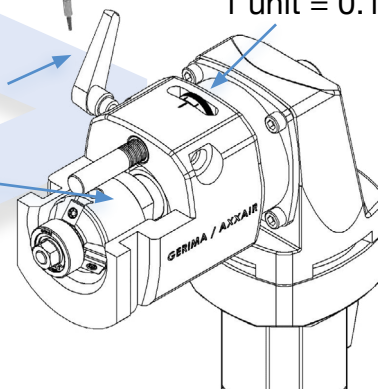


AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

Adjustment wheel:
1 unit = 0.1 mm

End-stop handle

Milling head



	Product Code	Tube beveling machine for the following diameters (in mm):		Net weight	Customs Code	Dimensions (HxLxW in mm)
		With basic jaws	With extra jaws (included)			
120V 1200W	NEW GA122-1	Ø29 to Ø 119	Ø 15 to Ø99	42 kg	846190 0000	443 x 541 x 304
	NEW GA172-1	Ø74 to Ø 173	Ø 33 to Ø116	49 kg		493 x 566 x 304
	NEW GA222-1	Ø128 to Ø 228	Ø 55 to Ø155	57 kg		548 x 594 x 304
	NEW GA322-1	Ø230 to Ø 328	Ø 141 to Ø239	71 kg		649 x 644 x 304
230V 1200W	NEW GA122-2	Ø29 to Ø 119	Ø 15 to Ø99	42 kg	846190 0000	443 x 541 x 304
	NEW GA172-2	Ø74 to Ø 173	Ø 33 to Ø116	49 kg		493 x 566 x 304
	NEW GA222-2	Ø128 to Ø 228	Ø 55 to Ø155	57 kg		548 x 594 x 304
	NEW GA322-2	Ø230 to Ø 328	Ø 141 to Ø239	71 kg		649 x 644 x 304

Please contact us for large diameters and special adaptations

Join experience





Orbital Beveling - Accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Our support legs and stands have been designed to further facilitate beveling 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 legs	10 kg	84669 37000	103 x 32 x 11

Support legs for orbital beveling machines:

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

✓ GA122

✓ GA172

✓ GA222

✓ GA322



Product Code	Description	Net Weight	Customs Code	Dimensions (in cm)
CCSER1	Stand	10 kg	84669 37000	60 x 26 x 10

Simple stand for supporting tubes with height adjustment:

- quick assembly and dismantling
- height adjustment

✓ GA122

✓ GA172

✓ GA222

✓ GA322



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:

- quick assembly and dismantling
- height adjustment
- facilitates tube feeding after each cut

✓ GA122

✓ GA172

✓ GA222

✓ GA322





Orbital Beveling - 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 and beveling 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, 1.5m - stainless steel rollers - height adjustment handle - 1.5 m long - maximum load 350 kg uniformly distributed - min tube ø: 5 mm - max tube ø: 321 mm - compatible with machines 121 to 321				

✓ GA122

✓ GA172

✓ GA222

✓ GA322



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: - stainless steel rollers - 1.5 m long - maximum load 350 kg uniformly distributed - min tube ø: 5 mm - max tube ø: 321 mm - compatible with machines 121 to 321				

✓ GA122

✓ GA172

✓ GA222

✓ GA322



Product Code	Description	Net Weight	Customs Code	Dimensions (in mm)
CCBSB-B005	Connecting bar	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				

✓ GA122

✓ GA172

✓ GA222

✓ GA322



Orbital Beveling - Accessories

AXXAIR
 INNOVATIVE ORBITAL SOLUTIONS

New autoline electric inverter:

Measures and displays the cutting/beveling 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

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)

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 wall thickness
- perform quick and easy configuration
- display the cutting/beveling motor's consumption
- display in English or French
- choose the unit of measure: mm or inch

This inverter is compatible with our previous **121,171,221, 321** 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 GA122 to 322:

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

✓ GA122	✓ GA172	✓ GA222	✓ GA322
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Orbital Beveling - Accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

This milling head is a tool holder. It creates the shape of the final bevel based on the initial choice, with the necessary angulation.

The milling head can be easily changed for different bevel angles.



Product Code	Description	Net Weight	Customs Code
TV-300	30° V milling head KIT with a roller and 3 inserts	1 kg	84669 37000

V milling head for a **30°** bevel + guide roller:

- Supplied with 3 fitted inserts

This milling head allows you to remove a maximum of 8 mm of the wall thickness, excluding the root face

✓ GA122	✓ GA172	✓ GA222	✓ GA322
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Product Code	Description	Net Weight	Customs Code
TV-375	37.5° V milling head KIT with a roller and 3 inserts	1 kg	84669 37000

V milling head for a **37.5°** bevel + guide roller:

- Supplied with 3 fitted inserts

This milling head allows you to remove a maximum of 7 mm of the wall thickness, excluding the root face

✓ GA122	✓ GA172	✓ GA222	✓ GA322
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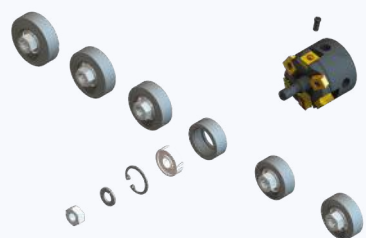
Product Code	Description	Net Weight	Customs Code
TV-450	45° V milling head KIT with a roller and 3 inserts	1 kg	84669 37000

V milling head for a **45°** bevel + guide roller:

- Supplied with 3 fitted inserts

This milling head allows you to remove a maximum of 6.5 mm of the wall thickness, excluding the root face

✓ GA122	✓ GA172	✓ GA222	✓ GA322
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Product Code	Description	Net Weight	Customs Code
TJ-100	10° J milling head KIT with 6 rollers and 6 inserts	1 kg	84669 37000

J milling head for a tulip bevel + guide rollers:

- Supplied with 6 fitted inserts

This milling head allows you to remove a maximum of 8 mm of the wall thickness, excluding the root face

✓ GA122	✓ GA172	✓ GA222	✓ GA322
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Orbital Beveling - Consumables

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Our carbide inserts provide an operating speed that is 10x that achieved with an HSS tool.

Our carbide inserts create an even bevel with a clean surface and no burrs.

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



Product Code	Description	Net Weight	Customs Code
PC30-08-B02	Carbide inserts (12 mm) TIN coated for bevels	70 g	84669 40000

Carbide inserts for orbital beveling (box of 10):

- Usable with all AXXAIR milling heads
- Inserts usable on **4 sides**
- Always change all inserts at the same time

✓ GA122

✓ GA172

✓ GA222

✓ GA322



Product Code	Description	Net Weight	Customs Code
KS30	Insert locking screw	1g	84669 400

Locking screw for carbide inserts

✓ GA122

✓ GA172

✓ GA222

✓ GA322



1 machine - 3 applications

AXXAIR

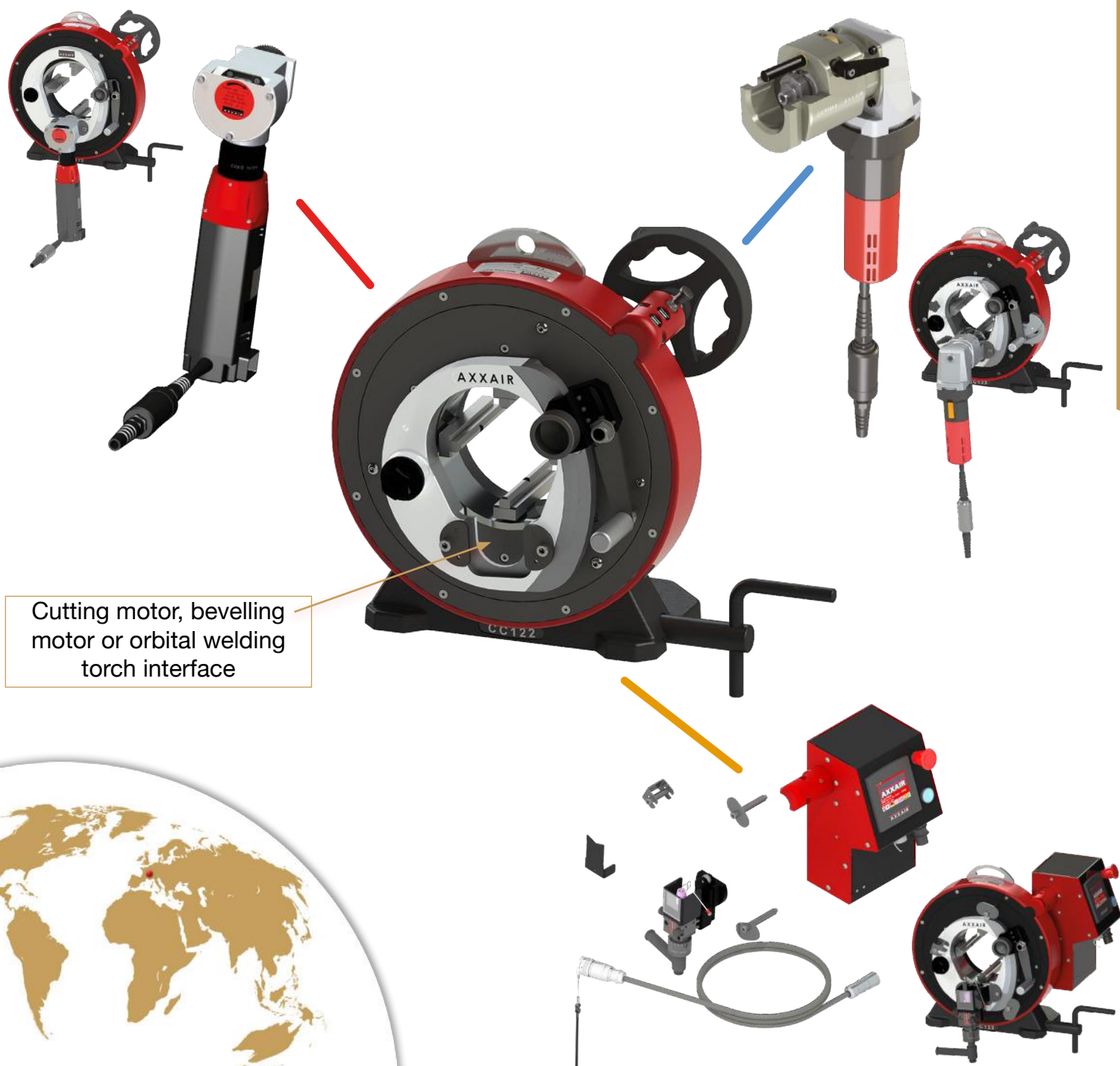
INNOVATIVE ORBITAL SOLUTIONS

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

1 machine - 3 applications

AXXAIR

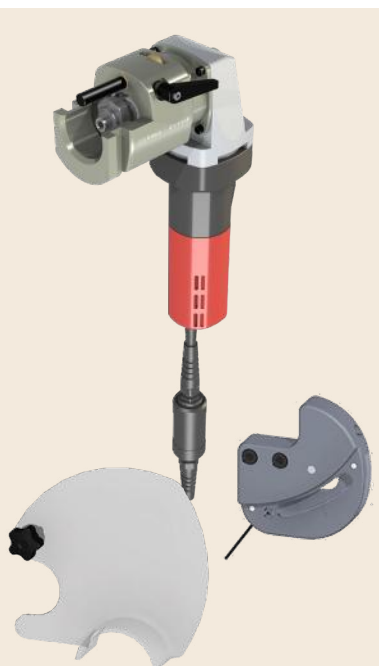
INNOVATIVE ORBITAL SOLUTIONS



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: FS19	172	
230V	Low-speed motor: FS25	222	
	High-speed motor: FS29	222	
Pneumatic	MOPD	322	



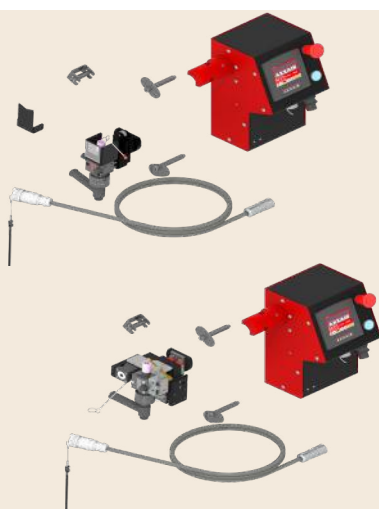
Product Code	Description	Net Weight	Customs Code
GA10 - x - xx	Bevelling motor kit	5 kg	8466937000

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	

Orbital welding (Prefabrication)

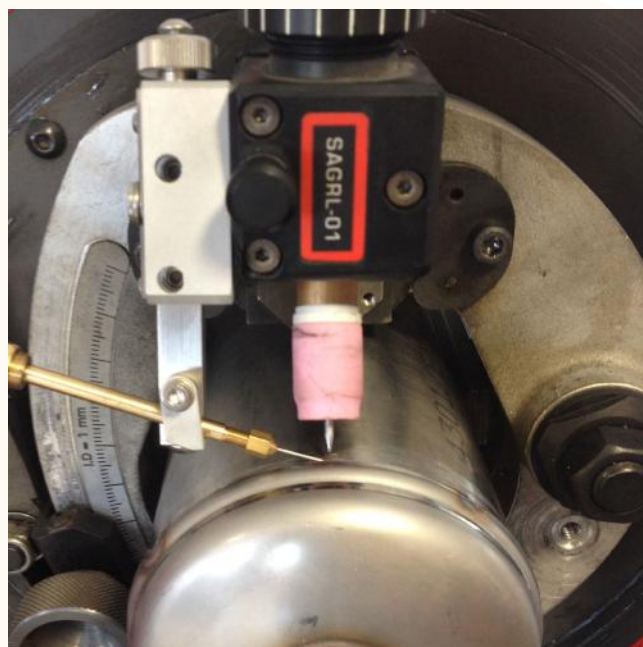
AXXAIR

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

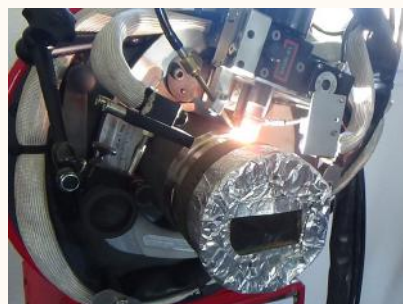
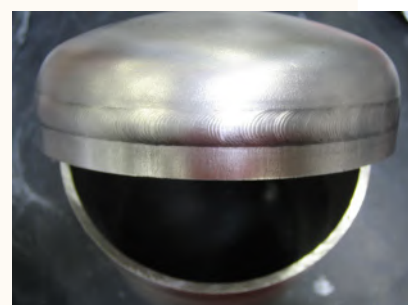
Welding with a water or air cooled torch with or without filler metal. It allows production of medium to large series of welding sub-assemblies. The diameter range of each machine is very wide and does not require specific jaws.

QUALITY AND REPEATABILITY

TIG welding without tube distortion (multi-contact concentric clamping). Mechanical or motorised 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**.

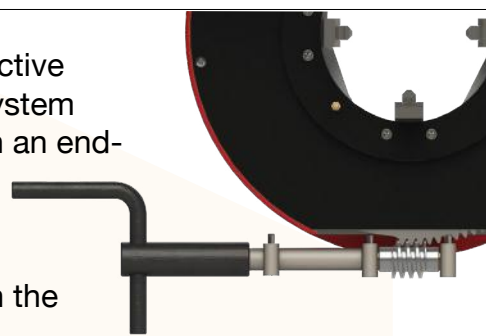


Easy handling

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.

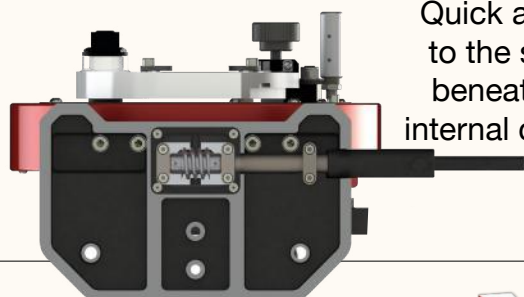


Easy maintenance and inspection

The internal clamping components are lubricated using a greaser

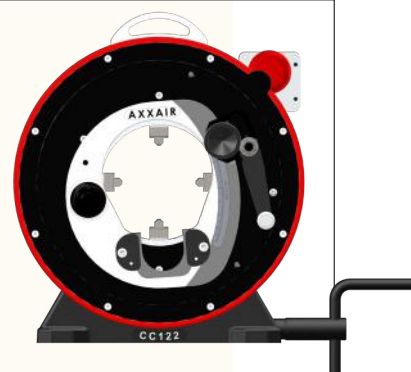
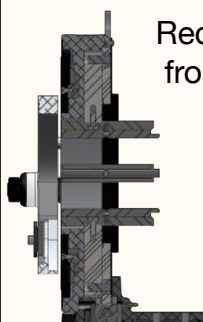


Quick access to the screw beneath the internal cowling



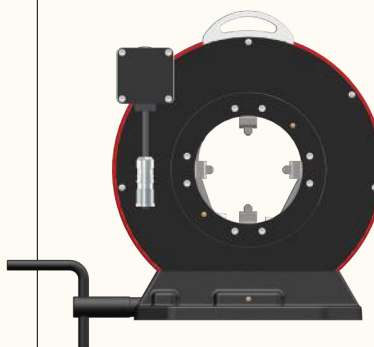
A perfect seal against chips

Redesigned front baffle



Rotating parts incorporated into the body

No moving parts visible at the rear



SX122 - 172 - 222 - 322 (simple wire)

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

No tube distortion

Concentric clamping



Stainless steel
basic and auxiliary
jaws as standard

Water Cooled

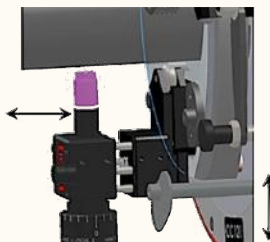


Rotating

Connect to the
SAXX range welding
generator

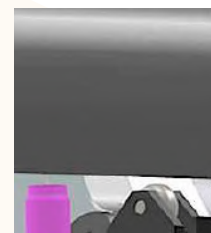
Accurate positioning

Axial adjustment of
the electrode
position: facilitates
location of the parts
to be welded
Adjustment of the
electrode's axial po-
sition : +/- 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	ø12 - 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 "



Join **experience**



SX122 - 172 - 222 - 322 (simple wire)**AXXAIR**
INNOVATIVE ORBITAL SOLUTIONS**Technical characteristics:**

Machines for TIG orbital prefab welding, water cooled.

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.

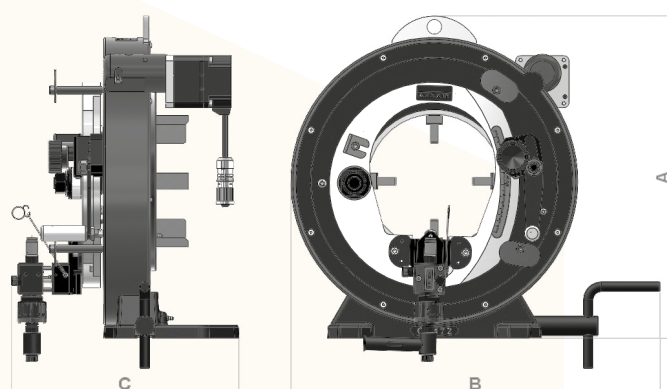
The machine can be supplemented by a wire feed system. For details, please refer to accessories.

A welding generator with liquid cooling system must be used when welding using these weld module. Cf welding generator characteristics

For welding with an AVC / OSC system please refer to following pages of this catalogue in order to choose a machine already provided with this system.



Model	Operating factor of 100%
SX-xx2-E (WATER)	200 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)			
Water cooled EAU	SX122-E	Ø29 - Ø119	Ø12 - 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



AXXAIR's orbital welding

Sweep Multi-pass TIG welding

- AVC/OSC system -



Motorised voltage control: AVC

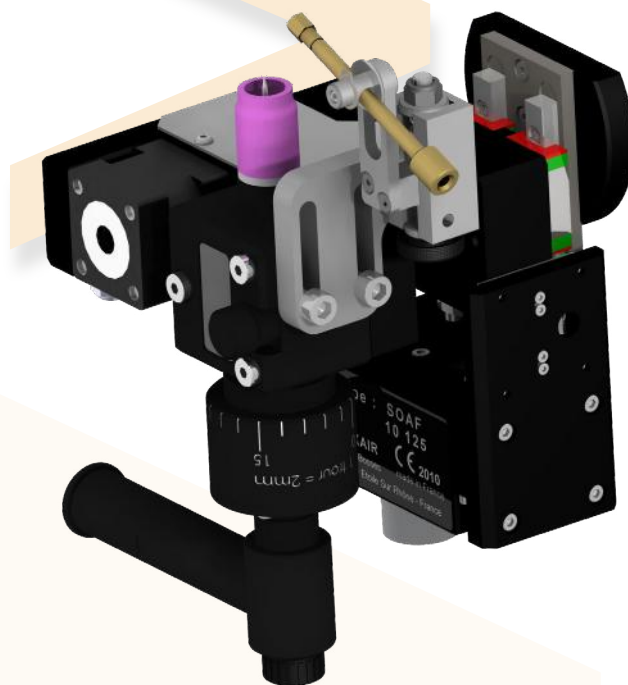
Motorised Arc Voltage Control is often abbreviated to AVC. Arc voltage is directly linked to the distance between the tube to be welded and the electrode. In other words, this option ensures the correct tube-electrode distance is maintained electronically during welding.

AVC can indeed be of huge benefit, especially in mechanised welding, and the more sensors there are to guide the machine, the less user intervention is required.

The two most frequent applications:

- When you do not wish to measure the external diameter physically using a feeler probe; AVC requires no contact with the tube and the sensor is more accurate and responsive than with physical tracking.

- When wire welding and the deposition rate beneath the electrode is not fully controlled, this can obviously affect the arc length. In this case, AVC means you never go near the soldering bath.



Fusion+OSC+wire:

This welding method combines AVC movement with oscillation of the torch and wire. This method is used for multi-pass welding of high thickness materials.

Torch oscillation is where the electrode is swung left and right in a linear motion so that each side of the joint can be kept liquid as welding progresses.

Oscillation brings an improvement in the number of passes, and therefore significantly improves productivity.

This system, when combined with AVC, is the only effective way of filling a tulip joint in multi-pass TIG welding.

These systems are available on prefabrication machines and open heads.



SX122 - 172 - 222 - 322 (AVC/OSC)

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

No tube distortion

Concentric clamping



Stainless steel
basic and auxiliary
jaws
as standard

Water Cooled



Rotating

Connect to the
SAXX range welding
generator

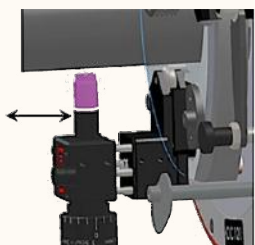
Control of the wire

regulation of the wire
by the SAXX
generators

Multi-pass welding

Mortorised axial sweep (OSC)

Movement of the
electrode's
axial position:
+/- 10 mm



Constant distance: electrode-tube

Motorised setting and control of the distance tube- electrode (AVC)

regulates the arc
voltage, the distance
between the elec-
trode and the tube

Easy handling and transportation



AVC/OSC system

Allows to
weld tubes
with up to
12.7 mm
wall
thickness

Compatible with the 210 and 300 SAXX generators



Welding range

122	ø12 - 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 "



SX122 - 172 - 222 - 322 (AVC/OSC)**AXXAIR**
INNOVATIVE ORBITAL SOLUTIONS**Technical characteristics:**

Orbital TIG welding machine for prefabrication with AVC/OSC system, water cooled.

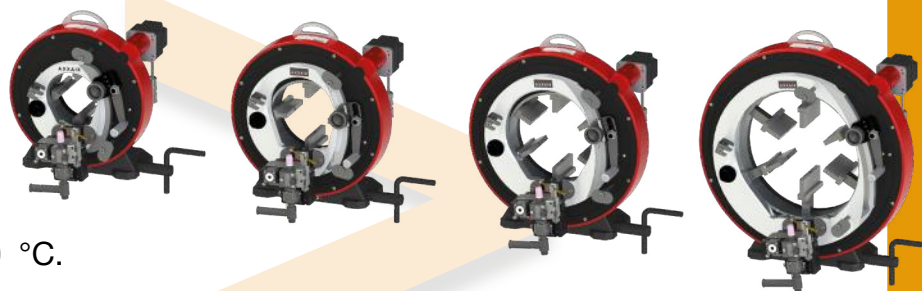
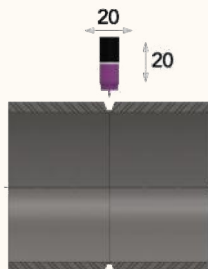
For optimum use, the ambient temperature must be between 0 °C and + 40 °C.

These machines are intended for orbital TIG welding. This range of products may be used for tube-to-tube, tube-to-elbow, tube-to-ferrule and T-joint welding, as well as SMS connectors and other work pieces.

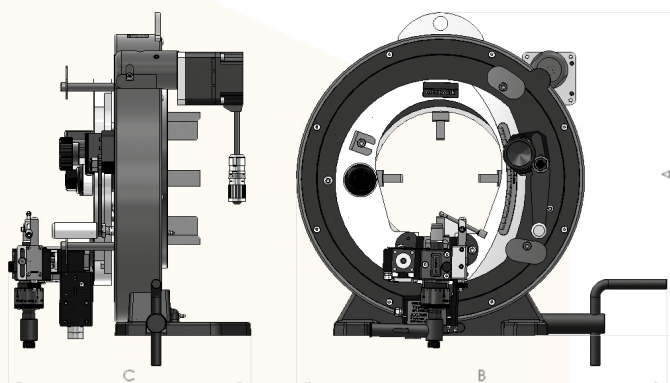
Compatible with AXXAIR type SAXX-210 and SAXX-300 welding generators, we have an automatic parameter calculation mode.

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

Oscillation range: 20 mm,
AVC range: 20 mm
Max speed: 15 mm/s



Model	Operating factor of 100%
SX-xx2-NAOF (WATER)	200 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)			
Water Cooled	SX122-NAOF	Ø29 - Ø119	Ø12 - Ø99	46 kg	85153 10000	446 x 541 x 346-371
	SX172-NAOF	Ø74 - Ø173	Ø16 - Ø116	53 kg		493 x 566 x 346-371
	SX222-NAOF	Ø128 - Ø228	Ø55 - Ø155	61 kg		548 x 594 x 346-371
	SX322-NAOF	Ø230 - Ø328	Ø141 - Ø239	74 kg		649 x 644 x 346-371



Orbital welding (Prefabrication) - Accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

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-E ✓ SX172-E ✓ SX222-E ✓ SX322-E ✓ SX122-NAOF ✓ SX172-NAOF ✓ SX222-NAOF ✓ SX322-NAOF



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-E ✓ SX172-E ✓ SX222-E ✓ SX322-E ✓ SX122-NAOF ✓ SX172-NAOF ✓ SX222-NAOF ✓ SX322-NAOF



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-E ✓ SX172-E ✓ SX222-E ✓ SX322-E ✓ SX122-NAOF ✓ SX172-NAOF ✓ SX222-NAOF ✓ SX322-NAOF



Orbital welding (Prefabrication) - 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 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 tube 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-E

✓ SX172-E

✓ SX222-E

✓ SX322-E

✓ SX122-NAOF

✓ SX172-NAOF

✓ SX222-NAOF

✓ SX322-NAOF



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-E

✓ SX172-E

✓ SX222-E

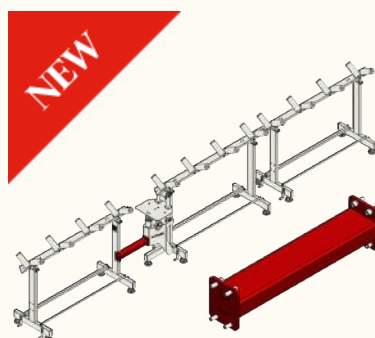
✓ SX322-E

✓ SX122-NAOF

✓ SX172-NAOF

✓ SX222-NAOF

✓ SX322-NAOF



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-E

✓ SX172-E

✓ SX222-E

✓ SX322-E

✓ SX122-NAOF

✓ SX172-NAOF

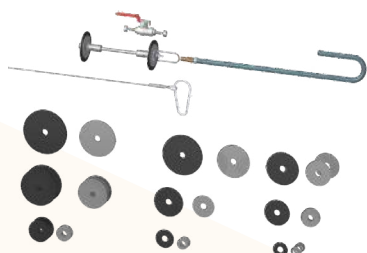
✓ SX222-NAOF

✓ SX322-NAOF



Orbital welding (Prefabrication) - 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-E	✓ SX172-E	✓ SX222-E	✓ SX322-E	✓ SX122-NAOF	✓ SX172-NAOF	✓ SX222-NAOF	✓ SX322-NAOF
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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-E	✓ SX172-E	✓ SX222-E	✓ SX322-E	✓ SX122-NAOF	✓ SX172-NAOF	✓ SX222-NAOF	✓ SX322-NAOF
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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-E	✓ SX172-E	✓ SX222-E	✓ SX322-E	SX122-NAOF	SX172-NAOF	SX222-NAOF	SX322-NAOF
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Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SADFP2X	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-E	✓ SX172-E	✓ SX222-E	✓ SX322-E	✓ SX122-NAOF	✓ SX172-NAOF	✓ SX222-NAOF	✓ SX322-NAOF
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Orbital welding (Prefabrication) - **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-E	✓ SX172-E	✓ SX222-E	✓ SX322-E	SX122-NAOF	SX172-NAOF	SX222-NAOF	SX322-NAOF
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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-E	✓ SX172-E	✓ SX222-E	✓ SX322-E	SX122-NAOF	SX172-NAOF	SX222-NAOF	SX322-NAOF
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44



Orbital welding (Prefabrication) - Consumables**AXXAIR**
INNOVATIVE ORBITAL SOLUTIONS

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-E ✓ SX172-E ✓ SX222-E ✓ SX322-E ✓ SX122-NAOF ✓ SX172-NAOF ✓ SX222-NAOF ✓ SX322-NAOF



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-E ✓ SX172-E ✓ SX222-E ✓ SX322-E ✓ SX122-NAOF ✓ SX172-NAOF ✓ SX222-NAOF ✓ SX322-NAOF



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-E ✓ SX172-E ✓ SX222-E ✓ SX322-E ✓ SX122-NAOF ✓ SX172-NAOF ✓ SX222-NAOF ✓ SX322-NAOF



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 (Open heads)

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 heads provided with or without an AVC/OSC system.

FLEXIBILITY, PRODUCTIVITY

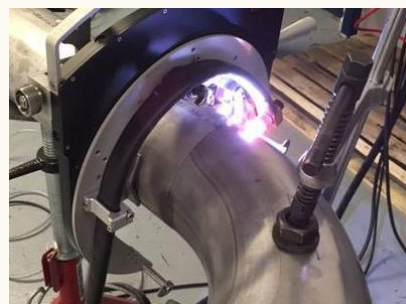
AXXAIR open heads are available with or without filler metal. They have an optimized rotation sweep and 2 positions of feed motor to choose from. High duty cycle (water cooled torch).

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!



SATO-40 - 80 -115 - 170 -220

AXXAIR

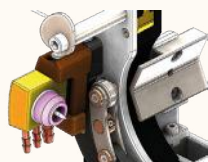
INNOVATIVE ORBITAL SOLUTIONS

Water Cooled



Roller mechanical profile tracking

Constant arc voltage without marking the tube



Compatible With the SAXX generators

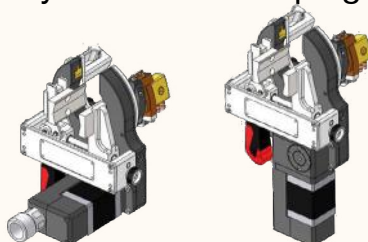


Transport

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

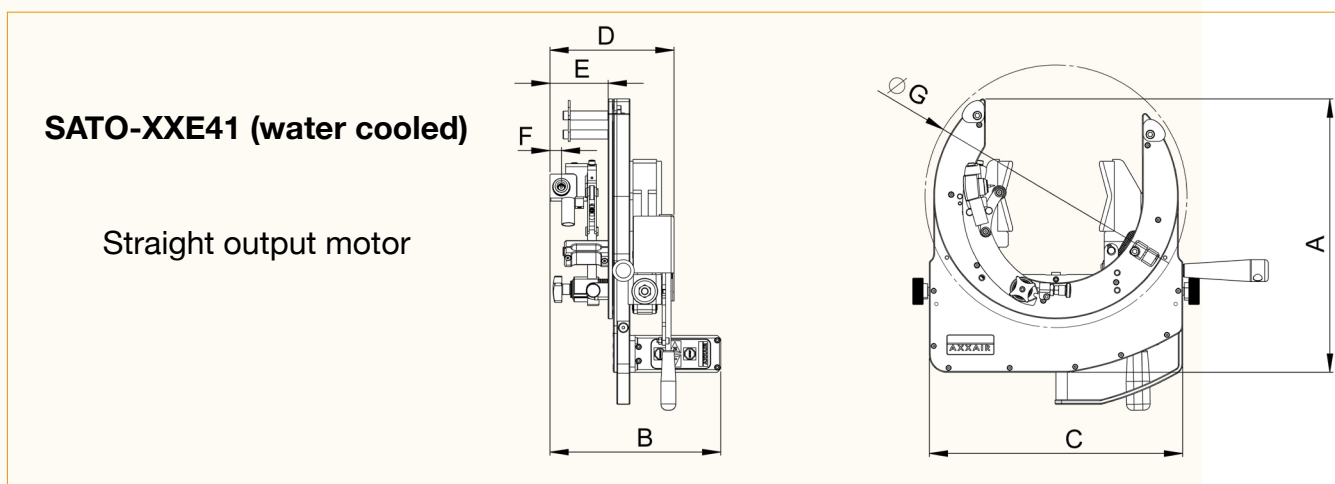
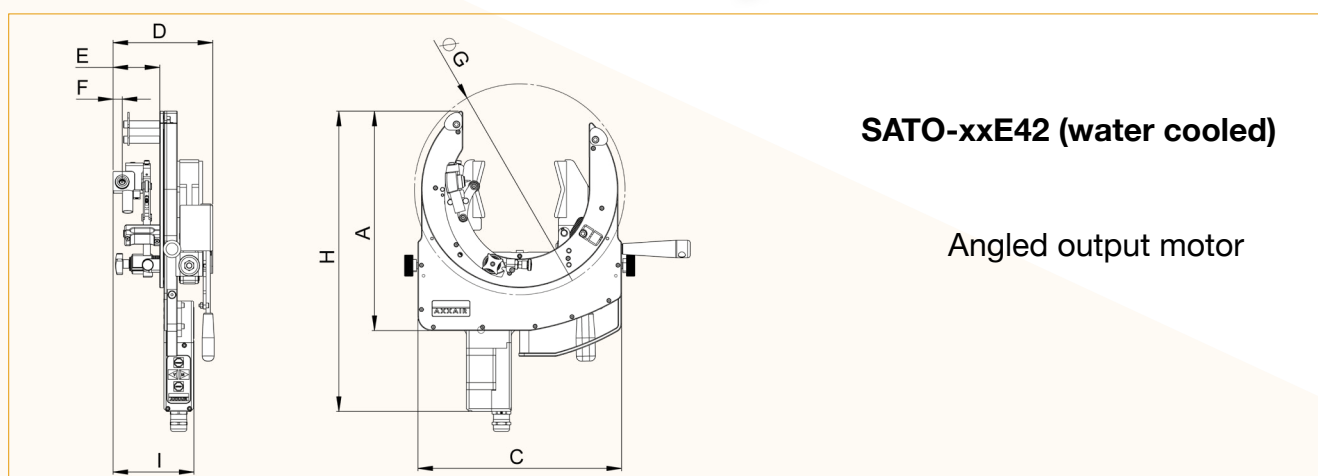
Allows STARTING IN ALL ANGULAR electrode positions

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 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)

	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

Moteur	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
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



AXXAIR's orbital welding

Sweep Multi-pass TIG welding

- AVC/OSC system -

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Motorised voltage control: AVC

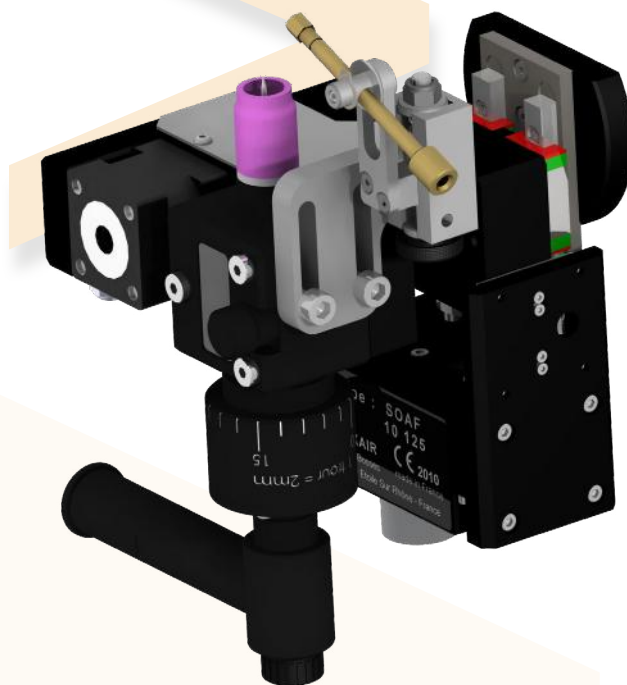
Motorised Arc Voltage Control is often abbreviated to AVC. Arc voltage is directly linked to the distance between the tube to be welded and the electrode. In other words, this option ensures the correct tube-electrode distance is maintained electronically during welding.

AVC can indeed be of huge benefit, especially in mechanised welding, and the more sensors there are to guide the machine, the less user intervention is required.

The two most frequent applications:

- When you do not wish to measure the external diameter physically using a feeler probe; AVC requires no contact with the tube and the sensor is more accurate and responsive than with physical tracking.

- When wire welding and the deposition rate beneath the electrode is not fully controlled, this can obviously affect the arc length. In this case, AVC means you never go near the soldering bath.



Fusion+OSC+wire:

This welding method combines AVC movement with oscillation of the torch and wire. This method is used for multi-pass welding of high thickness materials.

Torch oscillation is where the electrode is swung left and right in a linear motion so that each side of the joint can be kept liquid as welding progresses.

Oscillation brings an improvement in the number of passes, and therefore significantly improves productivity.

This system, when combined with AVC, is the only effective way of filling a tulip joint in multi-pass TIG welding.

These systems are available on prefabrication machines and open heads.



SATO-115 - 170 -220 (AVC/OSC)

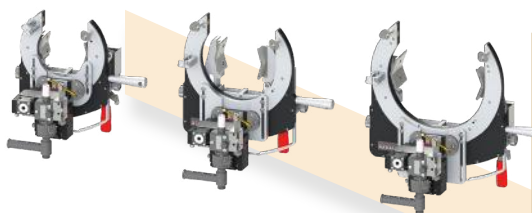
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INNOVATIVE ORBITAL SOLUTIONS

Control of the wire

regulation of the wire by the SAXX generators

Water Cooled



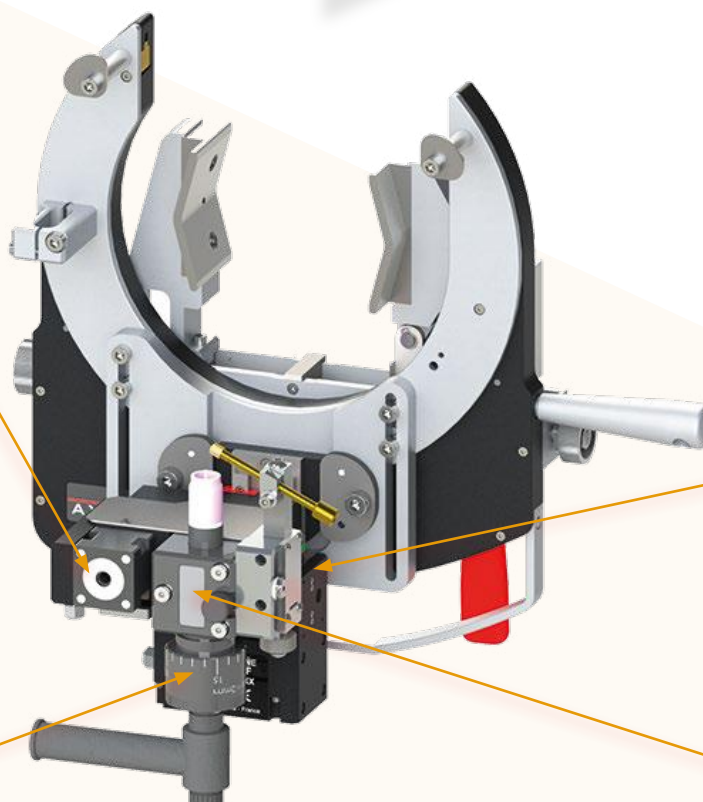
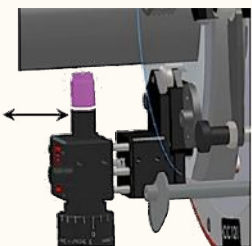
Protection

High protection against arcing outside the electrode

Multi-pass welding

Mortorised axial sweep (OSC)

Movement of the electrode's axial position: +/- 10 mm



Transport

These heads are delivered in their individual transport



Motorization with encoder

Allows STARTING IN ALL ANGULAR electrode positions

Constant distance: electrode-tube

Motorised setting and control of the distance tube-electrode (AVC)

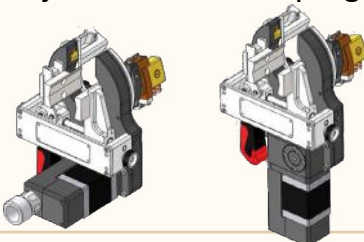
regulates the arc voltage, the distance between the electrode and the tube

AVC/OSC system

Allows to weld tubes with up to 12.7 mm wall thickness

Straight or Angled motor

Symmetrical clamping



Compatible with the 210 and 300 SAXX generators



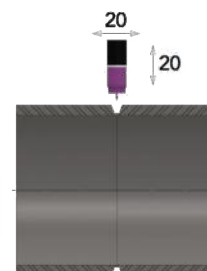
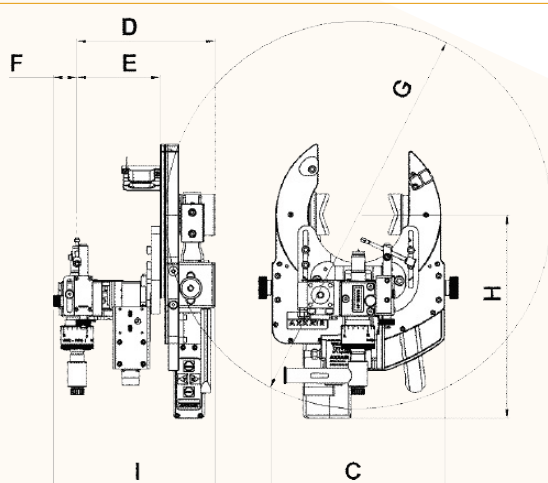
Welding range

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-115 - 170 -220 (AVC/OSC)**AXXAIR**
INNOVATIVE ORBITAL SOLUTIONS**Caractéristiques techniques:**

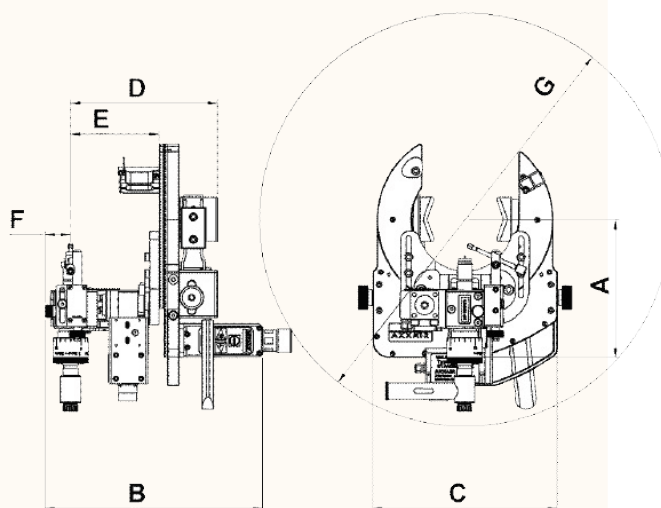
- WATER cooled head with AVC/OSC system
- Quick symmetrical tightening by lever
- Motorization with encoder: allows starting from any angular position of the electrode
- Wide diameter range
- For optimum use, the ambient temperature must be between 0 °C and + 40 °C.
- Oscillation range: 20 mm, AVC range: 20 mm, max speed: 15 mm/s
- Machines compatible with AXXAIR welding power sources with SAXX (210 and 300) type liquid coolant system for welding cycle.

**Choice of two different models** (to choose according to your applications)**SATO-xxE52 (water cooled with AVC / OSC system)**

Angled output motor

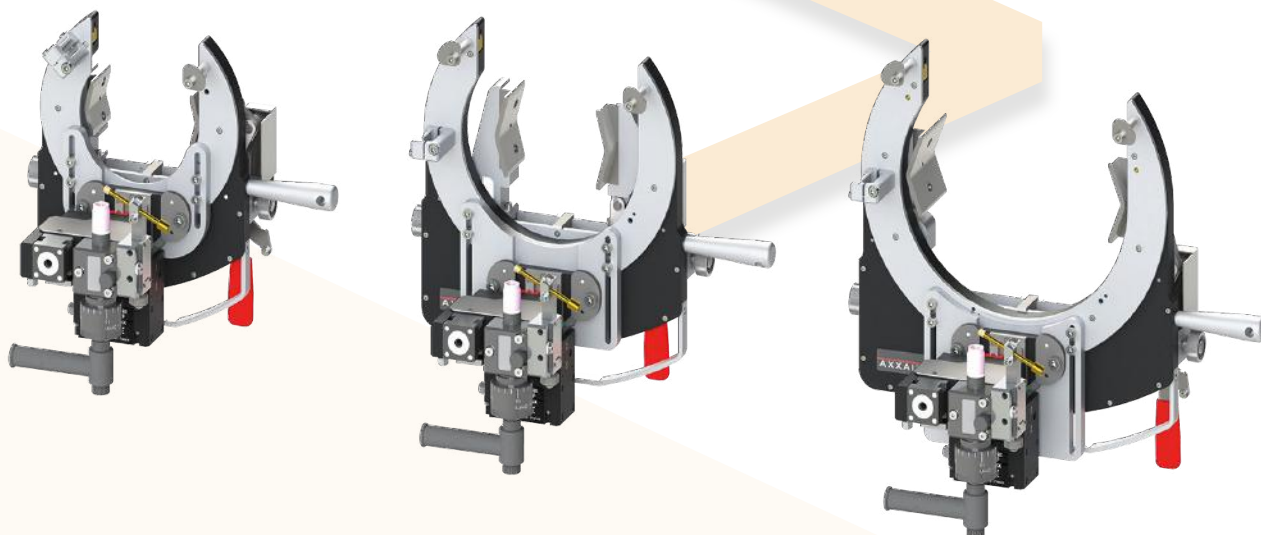
SATO-xxE51 (water cooled with AVC / OSC system)

Straight output motor



	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm
SATO-115	171	246-271	230	146-171	85-110	31.5	680	269	194-219
SATO-170	201		290				750	299	
SATO-220	220		350				800	318	



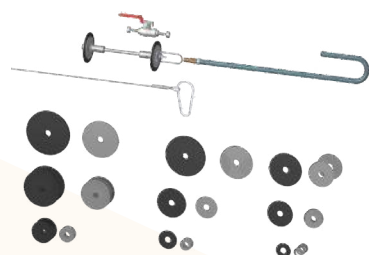
SATO-115 - 170 -220 (AVC/OSC)**AXXAIR**
INNOVATIVE ORBITAL SOLUTIONS

Moteur	Cooling	Product code	Welding machine for tubes of the following diameters (in mm)	Net weight	Customs code
Angled motor	WATER	SATO-115E52	ø 19 - ø 115 mm	10.6 kg	85153 10000
		SATO-170E52	ø 25 - ø 170 mm	12.7 kg	
		SATO-220E52	ø 38 - ø 220 mm	15.1 kg	
Straight Motor	WATER	SATO-115E51	ø 19 - ø 115 mm	10.6 kg	85153 10000
		SATO-170E51	ø 25 - ø 170 mm	12.7 kg	
		SATO-220E51	ø 38 - ø 220 mm	15.1 kg	



Orbital welding (Open heads) - Accessories**AXXAIR**

INNOVATIVE ORBITAL SOLUTIONS



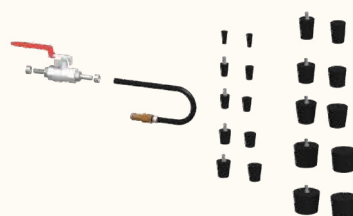
Product Code	Description	Net weight	Customs code	Packaging (in cm)
SKIF-01	Gas protection KIT	4.5 kg	85159 00090	35 x 30 x 9.5

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

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

✓ SATO-40E4x	✓ SATO-80E4x	✓ SATO-115E4x	✓ SATO-170E4x	✓ SATO-220E4x	✓ SATO-115E5x	✓ SATO-170E5x	✓ SATO-220E5x
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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.

✓ SATO-40E4x	✓ SATO-80E4x	✓ SATO-115E4x	✓ SATO-170E4x	✓ SATO-220E4x	✓ SATO-115E5x	✓ SATO-170E5x	✓ SATO-220E5x
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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	SATO-115E5x	SATO-170E5x	SATO-220E5x
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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	✓ SATO-115E5x	✓ SATO-170E5x	✓ SATO-220E5x
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Orbital welding (Open heads) - Accessories**AXXAIR**
INNOVATIVE ORBITAL SOLUTIONS**5 or 10 metres welding cable extensions**

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

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

Cooling				Length	Product Code	Net weight	Customs code	Dimensions (AxBxC in mm)	
WATER	WITHOUT WIRE	NEW	5 metres	SAFS-05MX	7 kg	85159 00090	40 x 59 x 25		
			10 metres	SAFS-10MX	14 kg		40 x 59 x 25		
✓ SATO-40E4x	✓ SATO-80E4x	✓ SATO-115E4x	✓ SATO-170E4x	✓ SATO-220E4x	SATO-115E5x		SATO-170E5x	SATO-220E5x	

Cooling		Length	Product Code	Net weight	Customs code	Dimensions (AxBxC in mm)	
WATER	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	SATO-115E5x	SATO-170E5x	SATO-220E5x

Cooling		Length	Product Code	Net weight	Customs code	Dimensions (AxBxC in mm)	
WATER	WIRE WITH AVC/OSC	<div>NEW</div> 10 metres	SAFS-10MOSC	14 kg	85159 00090	40 x 59 x 25	
SATO-40E4x	SATO-80E4x	SATO-115E4x	SATO-170E4x	SATO-220E4x	✓ SATO-115E5x	✓ SATO-170E5x	✓ SATO-220E5x



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	✓ SATO-115E5x	✓ SATO-170E5x	✓ SATO-220E5x
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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	✓ SATO-115E5x	✓ SATO-170E5x	✓ SATO-220E5x
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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	✓ SATO-115E5x	✓ SATO-170E5x	✓ SATO-220E5x
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Orbital welding (Tube-to-tube sheet)

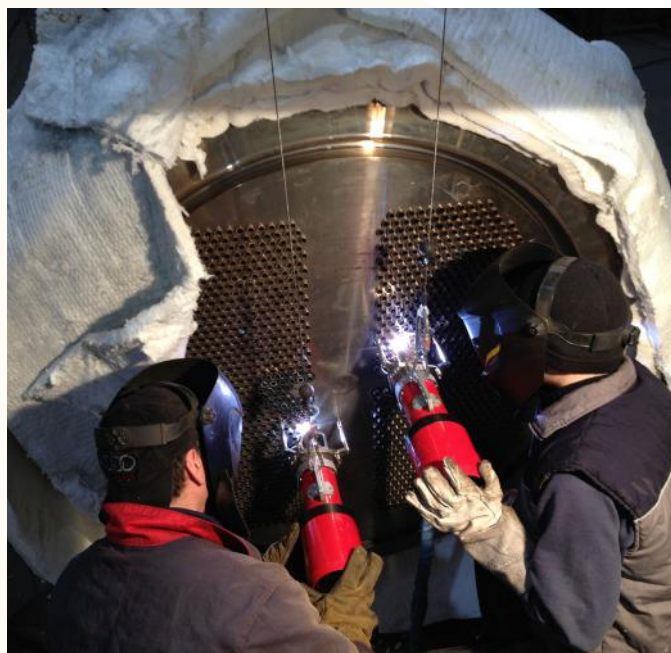
AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

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

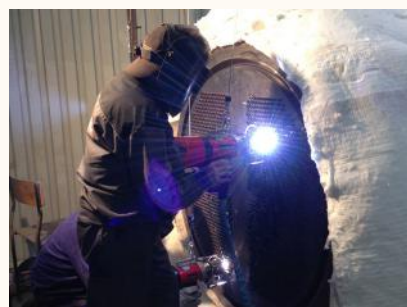
This head can weld in simple fusion or with the supply of wire. The wire feed is mounted on the head (1 kg reel) and rotates with the torch to ensure controlled wire output.

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!



SATP-80X

AXXAIR

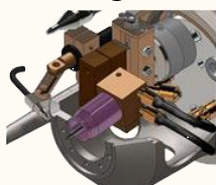
INNOVATIVE ORBITAL SOLUTIONS

Water Cooled



Tilting head

Water cooled with tilting wire



Mandrel system

Concentric tightening from the inside of the tube

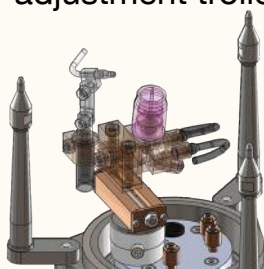


Compatible With the SAXX generators

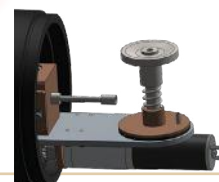


Flexibility

Head and wire adjustment trolley

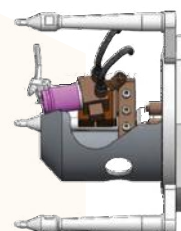


Wire holder 1 kg

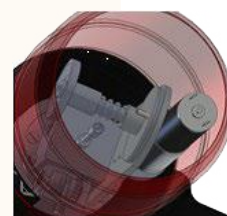


Positioning stops

Adjustable stops for better tube sheet stability



Electric motor with wire feed



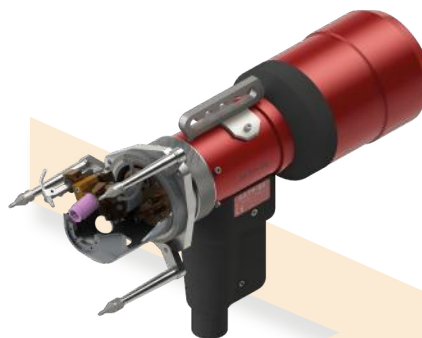
Welding range

SATP-80X	\varnothing 10 - \varnothing 80 mm 0.4 - 3 "
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SATP-80X

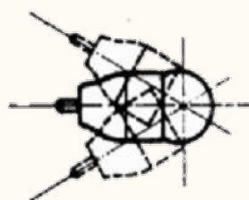
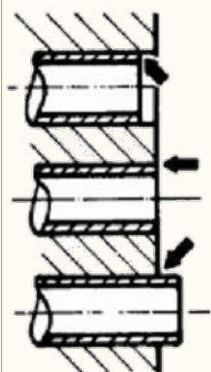
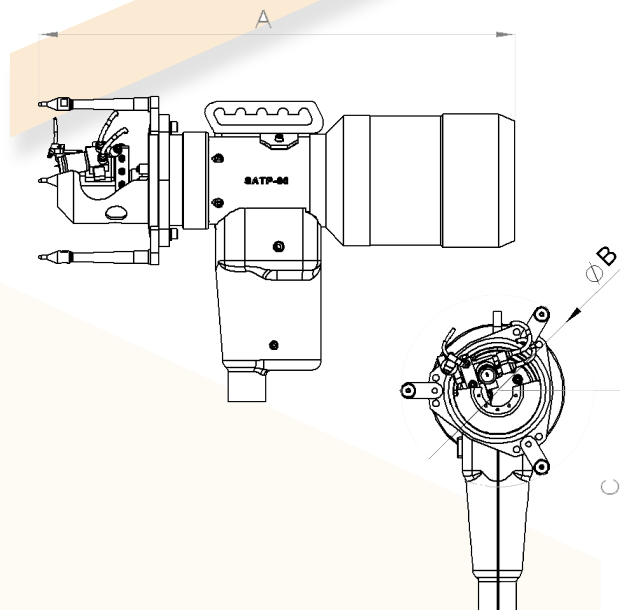
The SATP-80X covers virtually all common tube to tube sheet configurations in stainless steel as well as in titanium or black steel.



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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 spool)	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

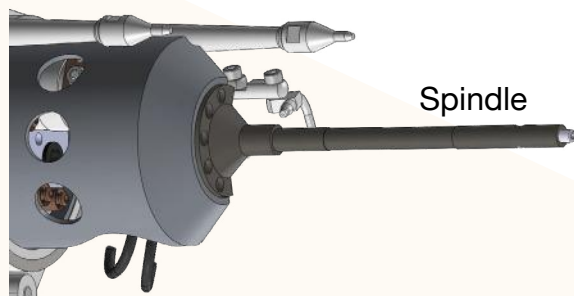


Orbital welding (Tube to tube sheet) - Accessories**AXXAIR**

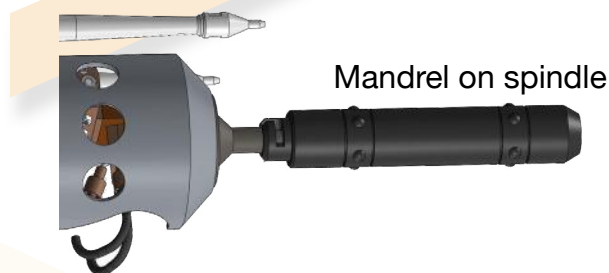
INNOVATIVE ORBITAL SOLUTIONS

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	SATP-B02
12.8 to 14.0 mm	SATP-M21	
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 \varnothing 2.4 mm, length 39.5mm for SATP:

- Box of 10 electrodes

✓ SATP-80X

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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.



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.

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.



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-210

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Gas management completely assured

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



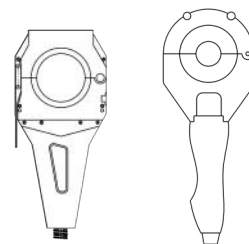
Gas flow is controlled on the generator using the buttons (flow rate displayed on screen)

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:

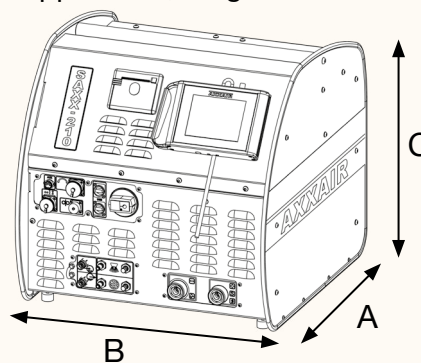
- Possibility of triggering the welding start via an oxygen meter (dry contact).

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	-
Option	SAVCOSC	AVC OScillation axis for SAXX-300	-	85159 00090	-



SAXX-300

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Gas management completely assured

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



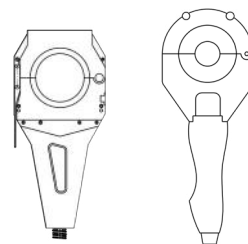
Gas flow is controlled on the generator using the buttons (flow rate displayed on screen)

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

Compatible with AVC/OSC system

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-300

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

Technical characteristics:

Duty cycle:

400 V	
30 %	300 A
60 %	240 A
100 %	210 A

Power supply:

- Three phase main with earth
- Supply voltage : 400 V +/-15%
- Maximum current on main : 24A
- Frequency : 50/60Hz
- Cable : HO7RN-F 4x2.5 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

Wi-fi: (Option)

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



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:

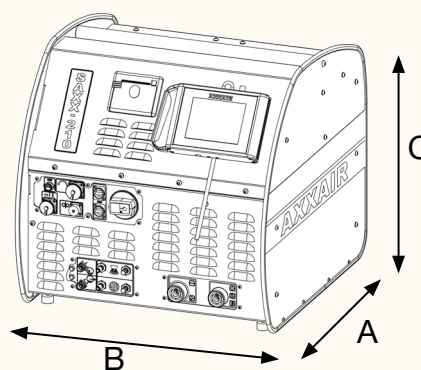
- 32 characters / line
- Print program and actual parameters

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



	Product Code	Description	Net weight	Code code	Dimensions A x B x C (mm)
	NEW SAXX-300	Orbital station, 300A, 380V with double gas line and wire axis	44 kg	85153 10000	562 x 620 x 545
Option	SWIFI	Wifi antenna for SAXX-300 for remote control	-	85159 00090	-
Option	SAVCOSC	AVC OScillation axis for SAXX-300	-	85159 00090	-



Orbital welding (SAXX) - Accessories

AXXAIR

INNOVATIVE ORBITAL SOLUTIONS



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 m³

✓ SAXX-210

✓ SAXX-300



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

Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SPPM-C10	Extention for SPPM-10	0.5 kg	81515 900090	40 x 59 x 25

10 metres extention cable for SPPM-10 (Ppm reader)

✓ SAXX-210

✓ SAXX-300



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-210

✓ SAXX-300



Orbital welding (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-210

✓ SAXX-300



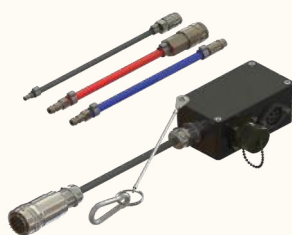
Product Code	Description	Net weight	Customs code	Dimensions
SAFS-ADORBI1	Adapter kit	1.2 kg	85159 00090	L < 50 cm

Adapter kit for connecting the following heads to SAXX generators:

- Orbitalum ORBITALWELD models (ORBIWELD38S, ORBIWELD76S and ORBIWELD115S)

✓ SAXX-210

✓ SAXX-300



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-210

✓ SAXX-300



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-210

✓ SAXX-300



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-210

✓ SAXX-300

Orbital welding (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-210

✓ SAXX-300



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-210

✓ SAXX-300



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-210

✓ SAXX-300



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-210

✓ SAXX-300



Orbital welding (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-210

✓ SAXX-300



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-210

✓ SAXX-300



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 generators

✓ SAXX-210

✓ SAXX-300



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-210

✓ SAXX-300



Orbital welding (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-210

✓ SAXX-300



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 integral printer (set of 10)</u>				

✓ SAXX-210

✓ SAXX-300

NEW



Product Code	Description	Net weight	Customs code	Packaging (in cm)
SUSBX210	USB stick	0.02kg	85159 00090	6 x 2 x 1
USB stick for SAXX-210: USB stick with software for recording welding programmes and the WeldReport				

✓ SAXX-210

SAXX-300

NEW



Product Code	Description	Net weight	Customs code	Packaging (in cm)
SUSBX300	USB stick	0.02kg	85159 00090	6 x 2 x 1
USB stick for SAXX-300: USB stick with software for recording welding programmes and the WeldReport				

SAXX-210

✓ SAXX-300



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

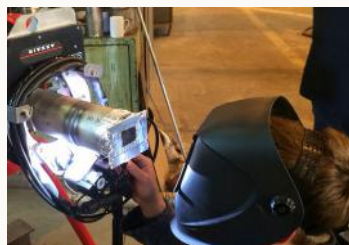
Organize demonstrations on your sites or via video conference from our showroom.



✓ 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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