

MARCH 2022

THICK WALLED TUBES > 3mm WALL THICKNESSES

Orbital cutting and facing



ORBITAL WELDING





www.AXXAIR.com

ENGLISH LANGUAGE

Our founding principles





Aidan Tagliaferro - CEO and founder of AXXAIR -

AXXAIR

- designer, manufacturer and distributor -

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

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

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

"

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

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

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

"

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.

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Our founding principles

V2.5 - 03/2022

Global Process



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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.

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.





Join experience

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Our thick tube markets > 3 mm wall thickness

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.

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.

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.



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.

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.





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INNOVATIVE ORBITAL SOLUTIONS

INNOVATIVE ORBITAL SOLUTIONS

AXXAIR's orbital bevelling

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, bevelling 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, bevelling 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 bevelling 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

3 mm wall thickness

Implementation, setting/adjustment and bevelling 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 bevelling technology.

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





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INNOVATIVE ORBITAL SOLUTIONS

AXXAIR's orbital bevelling

- V- or J-Bevel? -

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 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!





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INNOVATIVE ORBITAL SOLUTIONS

GA 122 - 172 - 222 - 322



V-bevel or J-bevel without lubricant

Carbide technology, 10x faster than HSS inserts

> Angles : - J-Bevel: 10° V-Bevel: 30° 37,5° and 45°



Perfect sealing against chips

All rotating parts are incorporated in the body

Plastic shield in the front









the root face Reading on a vernier



Wide speed range:

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flexibility depending on the material

Global Process

Can be transformed into an orbital cutting and welding machine

Оре	ning capacity
122	ø15 - ø119mm 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 "

INNOVATIVE ORBITAL SOLUTIONS

GA 122 - 172 - 222 - 322

Technical specifications:

New motor: 1550 W, 120 V or 230 V

- Class 2 electric device. Double electrical isolation. None accessible metal part. Longer service life, more power, patented dust protection.

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

- Vario Tacho Constamatic (VTC) Full-wave Electronics with Thumbwheel: for working at customised speeds to suit the application material and speeds that remain constant, even under load.

6 speed variations: from 2050 to 7300 RPM

- 0V security: the motor does not restart alone after a power failure

- Mechanical protection of the gearbox, torque limiter integrated into the angular gearbox

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



Robustness of the body:

- Effective clamping system with an endless screw engaging directly with the cam lock.

Easy maintenance and control:

- Lubrication of the inner parts with the grease nipples
- Quick access to the screw beneath the internal cowling







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Ajustment of the height of the bevel (V-Bevels) :

To adjust the height of the bevel, the stop needs to be moved. The wheel with the vernier must be turned in either direction to increase or decrease the height of the bevel.



The vernier value is equal to the **bevel height.**

Ajustment of the lenth of the root face (J-Bevels) :

The height of the bevel is determined by the selection of the roller mounted on the milling head. Adjusting the stop allows the length of the root face at the end of the bevel to be changed.



Materials that can be machined by the machine	Hardness between :
All types of steel	500 and 800 Mpa
All types of alloys (copper / brass / bronze / aluminum)	200 and 800 Mpa



Product CodeProduct CodeMachine with aMachine with a		Machine's jaw ope	Net	Dimensions	
120V motor	230V motor	With basic jaws	With extra jaws (included)	weight	(HxLxW in mm)
GA122-M1	GA122-M2	Ø29 - Ø 119	Ø 15 - Ø99	42 kg	443 x 541 x 304
GA172-M1	GA172-M2	Ø74 - Ø 173	Ø <mark>33</mark> - Ø116	49 kg	493 x 566 x 304
GA222-M1	GA222-M2	Ø128 - Ø <mark>228</mark>	Ø 55 - Ø155	57 kg	548 x 594 x 304
GA322-M1	GA322-M2	Ø230 - Ø <mark>328</mark>	Ø 141 - Ø239	71 kg	649 x 644 x 304

Please contact us for large diameters and special adaptations





Orbital Bevelling - Accessories



Our support legs and stands have been designed to further facilitate bevelling 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 Weigh	t Dimensions (in cm)			
	CCPS21 Support legs 10 kg 103 x 32 x						
	Support legs for orbital bevelling machines: - storage box at the back - optimum stability - quick assembly and dismantling - height adjustment with screws						
√GA122	√GA172	2	GA222	√GA322			

\checkmark	Product Code	Description	Net Weight	Dimensions (in cm)				
	CCSER1	Stand	10 kg	60 x 26 x 10				
	Simple stand for supporting tubes with height adjustment:							
	- quick assembly and dismantling - height adjustment							
√GA122	√GA172	2	√GA222	√GA322				

	Product Code	De	escription	Net Wei	ght	Dimensions	s (in cm)
	CCSER2	••••••	th chrome steel bearings	11 kg)	60 x 26	x 10
	Stand with chrome steel bearings for supporting tubes with height adjust- ment: - facilitates tube feeding after each cut - quick assembly and dismantling - height adjustment						
√GA122	√GA172	2	√GA22	2		√GA322	





PART OF

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Orbital Bevelling - Accessories



INNOVATIVE ORBITAL SOLUTIONS

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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 bevelling 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	De	escription	Net Weight	Dimensions (in cm)		
and the second second	CCBSB-X1	•	adjustable tube port bench	57 kg	184 x 95 x 51		
	<u>Height-adjusta</u> - stainless stee - height adjusti -1.5 m long	i0 kg red nm nachines 121 to 321					
√GA122	√GA172	2	√GA222	2	√GA322		
	Product Code	De	escription	Net weight	Dimensions (in cm)		
1 and a start	CCBSB-X2	Additi	onal support bench	38 kg	150 x 95 x 51		
	Additional tube support bench: - stainless steel rollers						

✓ GA122	- maximum load 350 kg uniformly distributed √GA172	- compatible with machines 121 to 321			
	 stainless steel rollers 1.5 m long maximum load 350 kg 	- min tube ø: 5 mm - max tube ø: 321 mm			

and a stand of the	Product Code Description Net Weight		Dimensions (in mm)			
		Connecting bar	3 kg	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	√GA17	2	√GA222	√ GA322		

Join experience



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Orbital Bevelling - Accessories



Autoline electric rotation:

Measures and displays the cutting/bevelling motor's power consumption

- enables the motor and cycle to be stopped in the

event of overconsumption

- protects the motor and frees the operator from
- watching the machine
- detects whether the motor is straining and

whether the blade is worn

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

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

3.5 colour touch-screen allowing you to:

- enter the diameter and precisely adjust the feed speed in mm/min

 aid adjustment with a suggested motor speed and feed speed based on the type of material and the blade used

- perform quick and easy configuration

- display the cutting/bevelling motor's consumption

- display in English, French or German
- choose the unit of measure: mm or inch

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

The previous SAEP-00/000 rotation cannot be fitted to our new122, 172, 222 and 322 models.

	Product Code	De	scription	Net Weig	ht Dimensions (in mm)
	SAEX-00	Autoline	electric rotation	6.3 kg	320 x 261x 193
Assessed of the second se	Autoline electric inverter for GA122 to 322: - 110 V to 230 V - even rotation - easy to use - precise adjustment				
√GA122	√GA172	2	√GA22	2	√GA322





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Orbital Bevelling - Accessories



INNOVATIVE ORBITAL SOLUTIONS

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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	
	GV-300	Kit of	milling head, roller, stop a	nd vernier	1 kg	
	Kit for 30° V b	evel:				
	- Supplied with This milling hea thickness, excl	ad allows	you to remove a maximur	n of 8 mm of	the wall	
√GA122	√GA17:	√GA172 √GA222 √GA322				
	Dready et Orada		Description			
	Product Code	Kit of	Description	ndvornier	Net Weight	
	GV-375		milling head, roller, stop a	nd vernier	1 kg	
26	<u>Kit for 37,5° V</u>	Devel:				
	- 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	2	√ GA222	√ G/	4322	
ser and	Product Code		Description		Net Weight	
	GV-450	Kit of	milling head, roller, stop a	nd vernier	1 kg	
	Kit for 45° V bevel: - 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	2	√GA222	√GA	322	
and a second sec	Product Code		Description		Net Weight	
	GJ-100	Kit of m	illing head, 6 rollers, stop	and vernier	1 kg	
	Kit for 10° J bevel:					
	- 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 This form is indispensable for automated welding processes and especially for orbital welding.					
√GA122	√GA172	2	√GA222	√G/	322	

Join experience



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Accessories (electric clamping)





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

The electric clamping makes it possible to carry out a **repetitive and constant force tightening** on tubes with identical diameters and thicknesses.

The **clamping force is adjustable**, it prevents the tubes from being deformed or marked.

Technical specifications:

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





Product code	Body frame, automatic ro Machine's jaw ope	Net weight	Dimensions (HxLxI in mm)	
code	With basic jaws	weight		
122-AU	Ø29 - Ø1 <mark>19</mark>	Ø5 - Ø99	51 kg	470 x 498 x 359
172-AU	Ø74 - Ø <mark>173</mark>	Ø <mark>16</mark> - Ø116	58 kg	520 x 530 x 359
222-AU	Ø128 - Ø <mark>228</mark>	Ø <mark>55</mark> - Ø155	66 kg	575 x 575 x 359
322-AU	Ø230 - Ø <mark>328</mark>	Ø <mark>141</mark> - Ø239	80 kg	675 x 662 x 359

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





Join experience

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Orbital Bevelling - Consumables



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		
	PC30-08-B02	Titanium coated carbide inserts 70 g					
	Carbide inserts for orbital bevelling (box of 10), usable with: - low rotation speeds on the following materials: plastic, aluminum and copper types: PVC, aluminum T6, copper / nickel-plated, bronze - high rotation speeds on carbon and stainless steels: 304 / 304L /316L and A106 steel						
	 Usable with all AXXAIR milling heads Inserts usable on 4 sides Always change all inserts at the same time 						
√GA122	√GA172	2	√ GA222	√ GA	4322		
1 ALT	Product Code		Description		Net Weight		
	PC30-08-B03 Micrograin carbide inserts, coated with a high wear resistance treatment 70 g						
	Carbide inserts for orbital bevelling (box of 10), usable with: Depending on the material, the tool rotation speeds must be adapted and the use of automatic rotation is recommended. - Recommended for high alloyed stainless steels: Duplex, inconel, super-duplex (316TIN / C-22 / C-4/625)						
•	 Usable with all AXXAIR milling heads Inserts usable on 4 sides Always change all inserts at the same time 						
√GA122	√GA172	2	√ GA222	√ GA	4322		
	Product Cod	le	Description		Net Weight		
	KS30		Insert locking scre	1g			
	Locking screw for carbide inserts						
√GA122	√GA172	2	√GA222	√ G/	4322		







INNOVATIVE ORBITAL SOLUTIONS

1 machine - 3 applications

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



1 machine - 3 applications





Product Code De		Des	scription		Net weight		
FS xx / MOPD Cutti		ing motor		5 kg			
Low-speed / high-speed / pneumatic motor with dual output (uptake):					output (uptake):		
	Product Code		Frame		use this motor you will need to		
120V	Low-speed	motor: FS15	122		er: suitable cutting blades fo ube thickness you want to c		
1200	High-speed motor: FS19		172		d, if necessary, lubricant.		
Low-speed		motor: FS25	172	All information and relevant p			
230V	High-speed motor: FS29		222		codes appear in the orbital		
Pneu- matic	MOPD		322		ng accessories and consu- es section of this catalogue.		

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

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

	Product Code	Frame		
120V	GA10-M1-122	122		
	GA10-M1-172	172		
	GA10-M1-222	222	23	sL
	GA10-M1-322	322		

	Product Code	Frame
230V	GA10-M2-122	122
	GA10-M2-172	172
	GA10-M2-222	222
	GA10-M2-322	322

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

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



Product Code	Description			Net Weight		
SX - KIT x	Torch kit		deper	depending on the chosen product		
IT for upgrading a CC/GA to an SX Air / Water / AVC+OSC torch						
Cooling	Product Code Fra		ame	To use this KIT and to		
AIR	SX-2KITA	122 172 222 322		prefab weld, you will need to order: a suitable AXXAIR		
	SX-2KITE					
EAU	SX-2KITNAOF (AVC/OSC)			welding power supply		
If you have acquired the electrical clamping (xx2-AU), please order the references below, they are delivered without automatic rotation:				for the tubes you want to weld. All information and		
AIR	SX-3KITA SX-3KITE		122	relevant product codes appear in the orbital welding section		
			172 222			
EAU	SX-3KITNAOF (AVC/OSC)		322	of this catalogue.		





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