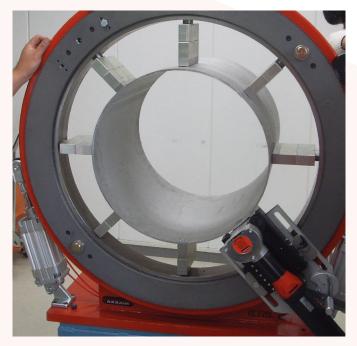
INNOVATIVE ORBITAL SOLUTIONS

AXXAIR orbital cutting

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

High quality cutting is guaranteed by AXXAIR's orbital cutting machines. The machines feature stainless steel concentric jaws to prevent the deformation of the tubes.

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



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

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

AXXAIR has the largest orbital cutting range in the world !

11 different models to cut tubes from diameter 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 (few burrs).

PORTABILITY

With the easy to remove sawing attachment, AXXAIR's cutting machines are easy to transport on site or move within a workshop. Perfect preparation for thick tubes before bevelling and welding with wire.







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

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



122 - 172 - 222 - 322 🚳

No tube deformation Concentric clamping



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

Reduced vibration and increased blade life

Optimised blade to jaw distance



<u>1200W motor or</u> <u>pneumatic motor</u> (as required)

Cutting capacity: Up to 15 mm wall thickness*





*depending on the type of steel

Cutting precision Perpendicularity of < 0.25 mm

AXXAIR

Continuous use

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





AXXAIR

INNOVATIVE ORBITAL SOLUTIONS

Cutting quality

Rotation handle for controlled and continuous cutting speed

A perfect sealing against chips

All rotating parts are incorporated in the



Global Process

Can be transformed into an orbital bevelling and welding machine

<u>Uptake</u>

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

Opening capacity									
122	<mark>ø5 -</mark> ø119 mm <mark>0.25</mark> " - 4.5 "								
172	<mark>ø16 -</mark> ø173 mm <mark>0.625</mark> " – 6.625 "								
222	<mark>ø55 -</mark> ø228 mm <mark>2.375</mark> " – 8.625 "								
322	<mark>ø141</mark> - ø328 mm 5.563" – 12.750 "								



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INNOVATIVE ORBITAL SOLUTIONS

122- 172 - 222- 322

Technical specifications:

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



Robustness:

Very efficient clamping system thanks to a screw withoutend directly engaged on the clamping cam.

Easy maintenance and control:

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



	Product	Machine's jaw o	pening capacity in mm	Net	Dimensions
	Code	With basic jaws	With extra jaws (included)	weight	(HxLxW in mm)
120V	122FS15	Ø29 - Ø <mark>119</mark>	Ø <mark>5</mark> - Ø99	44 kg	443 x 541 x 304
1200W low- speed motor	172FS15	Ø74 - Ø <mark>173</mark>	Ø <mark>16</mark> - Ø116	51 kg	493 x 566 x 304
	222FS15	Ø128 - Ø <mark>228</mark>	Ø <mark>55</mark> - Ø155	59 kg	548 x 594 x 304
	322FS15	Ø230 - Ø <mark>328</mark>	Ø141 - Ø239	71 kg	649 x 644 x 304
	122FS25	Ø29 - Ø <mark>119</mark>	Ø <mark>5</mark> - Ø99	44 kg	443 x 541 x304
230V 1200W	172FS25	Ø74 - Ø <mark>173</mark>	Ø <mark>16</mark> - Ø116	51 kg	493 x 566 x 304
low- speed	222FS25	Ø128 - Ø <mark>228</mark>	Ø <mark>55</mark> - Ø155	59 kg	548 x 594 x 304
motor	322FS25	Ø230 - Ø <mark>328</mark>	Ø141 - Ø239	71 kg	649 x 644 x 304
	122PD	Ø29 - Ø <mark>119</mark>	Ø <mark>5</mark> - Ø99	44 kg	443 x 541 x304
Pneu-	172PD	Ø74 - Ø <mark>173</mark>	Ø <mark>16</mark> - Ø116	51 kg	493 x 566 x 304
matic motor	222PD	Ø128 - Ø <mark>228</mark>	Ø <mark>55</mark> - Ø155	59 kg	548 x 594 x 304
	322PD	Ø230 - Ø <mark>328</mark>	Ø <mark>141</mark> - Ø239	71 kg	649 x 644 x 304



421- 521-721-1100



Cutting precision

Perpendicular cuts

< 0.4 mm



No tube deformation

Concentric clamping



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

<u>Continuous use</u>

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

Easy handling and transportation



*depending on the type of steel

<u>1200W motor or</u> pneumatic motor (as required)

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

<u>Uptake</u>

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

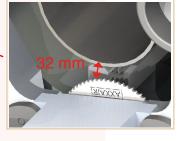
Cutting quality

Rotation handle for controlled and continuous cutting speed

Reduced vibration and increased blade life

Optimised blade to jaw distance

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Opening capacity									
421	ø212 - ø422 mm 8.625 - 16 "								
521	<mark>ø312 -</mark> ø522 mm 12.75 – 20 "								
721	<mark>ø447 -</mark> ø725 mm 18 – 28"								
1100	<mark>ø711 -</mark> ø1016 mm 28 – 40 "								



V2.4 - 10/2019

421-521-721-1100

Technical specification:

- Low-speed motor:

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

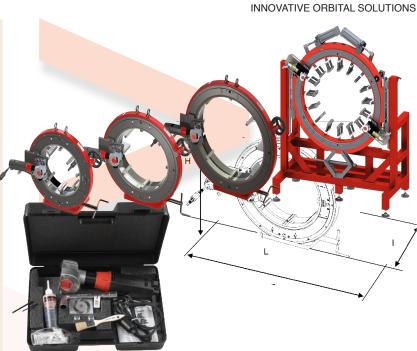
Vibration level in accordance with standard EN 28662: <2.5m/s², Protection class: IP 20

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	Machine's jaw o	opening capacity in mm	Net weight	Dimensions (HxLxW in
	Code	With basic jaws	With extra jaws (included)		mm)
120V 1200W	421FS15	Ø350 - Ø <mark>422</mark>	Ø <mark>212</mark> - Ø352	186 kg	802x838x315
low-	521FS15	Ø450 - Ø <mark>522</mark>	Ø <mark>312</mark> - Ø452	223 kg	905x889x315
speed motor	721FS15	Ø653 -Ø <mark>725</mark>	Ø <mark>447</mark> - Ø654	256 kg	1104x1077x315
230V 1200W	421FS25	Ø350 - Ø <mark>422</mark>	Ø <mark>212</mark> - Ø352	186 kg	802x838x315
low-	521FS25	Ø450 - Ø <mark>522</mark>	Ø <mark>312</mark> - Ø452	223 kg	905x889x315
speed motor	721FS25	Ø653 -Ø <mark>725</mark>	Ø447 - Ø654	256 kg	1104x1077x315
Pneu-	421PD	Ø350 - Ø4 <mark>22</mark>	Ø <mark>212</mark> - Ø352	186 kg	802x838x315
matic	521PD	Ø450 - Ø <mark>522</mark>	Ø <mark>312</mark> - Ø452	223 kg	905x889x315
motor	721PD	Ø653 -Ø <mark>725</mark>	Ø <mark>447</mark> - Ø654	256 kg	1104x1077x315
	1100		On request		



Orbital Cutting - Accessories



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 Cod	e Descri	ption	Net Weigh	t C	Dimensions (in cm)		
	Π	CCPS21	Suppor	Support legs 10 kg)3 x 32 x 11		
	N	Support legs for orbital cutting machines:							
/	1	- quick asser - height adju	•	-	- storage - optimun	box at the b n stability	ack		
√122	√ 172	√222	√322	421	521	721	1100		

		Product Cod	le Descri	ption	Net Weigh	t C)imensions (in cm)
	K	CCSER1	Star	nd	10 kg	6	0 x 26 x 10
		<u>Simple stand</u> - quick asse - height adju	mbly and dis	C .	<u>vith height adju</u>	ustment:	
√ 122	√ 172	√222	√322	421	421 521 721 11		

Ŵ		Product Code	Descrip	otion	Net Weigh	t [Dimensions (in cm)		
		CCSER2	Stand (chrome bearin	steel	11 kg	6	0 x 26 x 10		
1	A	Stand with chrome steel bearings for supporting tubes with height adjustment: - quick assembly and dismantling - facilitates tube feeding after each cut							
	1	- height adjus	•	smanung -	· lacilitates tur	be feeding after each cut			
√ 122	√ 172	√222 √322 421 521 721		421 521 721		1100			



INNOVATIVE ORBITAL SOLUTIONS

Orbital Cutting - Accessories

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

The additional tube support bench allows you to position your longest tubes in a stable manner on all benches.

We also recommend that you support the cut section in front of your cutting machine using one or more additional benches, depending on the length of the tube.

		Product Cod	e Descri	ption	Net Weight	Dimens	ions (in cm)			
		CCBSB-X1	Bench heig adjust	jht	57 kg	184 >	< 95 x 51			
		Height-adjustable support bench, 1.5m- maximum load: 350 kg- stainless steel rollers- handle for height adjustment- ø max pipe: 321 mm								
8 18		-1.5 m long	loight adjus				machines 121 to 321			
√ 122	√ 172	√222	√322	421	521	721	1100			

		Product Cod	de Des	scription	Net weig	Net weight Dimensions (in cm)			
1 aller aller		CCBSB-X2	/	Additional support 38 kg 150 x 95			x 95 x 51		
	*	Additional tu - stainless s - 1.5 m long - maximum uniformly	teel rollers	- m - m	in tube ø: 5 r ax tube ø: 32 ompatible wit	21 mm	121 to 321		
√ 122 √	172	√222	√322			721	1100		

	S.m.	Product Code	Descrip	otion	Net W	eight	Dimensi	ons (in mm)		
~	The second se	CCBSB-B005	Connecti	ng bar	31	kg	100 x 80 x 402			
		Connecting bar for CCBSB-X1 and CCBSB-X2:								
		- Allows the h front of the ma	• •	stable tab	ble to be	connect	ed to a ben	ch placed in		
√ 122	√ 172	√ 222	√322	421		521	721	1100		



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Orbital cutting - Accessories (End stop)

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

No pollution of the tube:

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

Retractable stop:

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



They can be assembled on the <u>feed-in or</u> <u>feed-out</u> section of the cutting machine





- Lengths available:

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

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

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

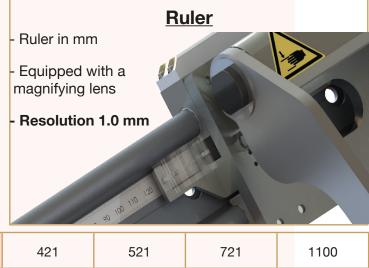
LCD display

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

Battery powered. Lifetime of about 4 years.
The discharged battery icon appears when battery

replacement is required. Replacement is easily done without loss of the value and configuration parameters.

- Resolution 0.1 mm





Cutting, bevelling & orbital welding

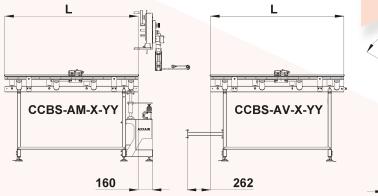
Orbital cutting - Accessories (End stop)

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-ajustable support bench (CCBSB-X1), additionnal support benches, the starting end stop module and its extensions.

Assembly	Reader	Length (in mm)	Working str	oke (in mm)	Product	code	Ne	et weight
		1500	13	00	CCBSB-A	M-R-15		65 kg
		3000	28	00	CCBSB-A	M-R-30		104 kg
	Ruler	4500	43	00	CCBSB-A	M-R-45		143 kg
on the	nulei	6000	58	00	CCBSB-A	M-R-60		163 kg
feed-in		7500	73	00	CCBSB-AM-R-75			200 kg
		9000	88	00	CCBSB-A	M-R-90		238 kg
section of the		1500	1300		CCBSB-A	M-D-15		65 kg
cutting		3000	28	00	CCBSB-AM-D-30			104 kg
line	LCD	4500	43	00	CCBSB-AM-D-45			143 kg
	display	6000	58	00	CCBSB-A	M-D-60		163 kg
		7500	73	7300 CCBSB-AM-D		M-D-75		200 kg
		9000	88	00	CCBSB-A	M-D-90		238 kg
<mark>√</mark> 122	<mark>√</mark> 172	√ 222	√322	421	521	721		1100

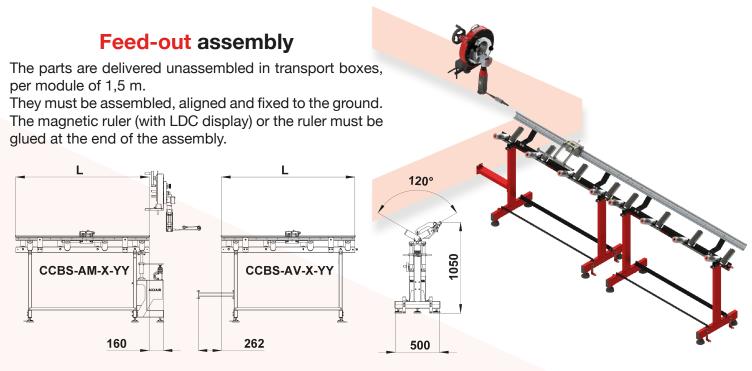
You can add CCBBSB-X2 modules to support the tube after the cutting process (in front of the cutting machine) with the CCBSB-B005 connecting bar (see previous pages).



Cutting, bevelling & orbital welding

Orbital cutting - Accessories (End stop)

INNOVATIVE ORBITAL SOLUTIONS



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

<u>Attention</u>: 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 str	oke (in mm)	Produc	t code	Net weight
		1500	13	00	CCBSB-	AV-R-15	46 kg
		3000	28	00	CCBSB-	AV-R-30	85 kg
	Ruler	4500	43	00	CCBSB-	AV-R-45	124 kg
on the		6000	58	00	CCBSB-	AV-R-60	163 kg
Constant and		7500	73	00	CCBSB-	AV-R-75	201 kg
feed-out		9000	88	00	CCBSB-	AV-R-90	240 kg
section		1500	13	00	CCBSB-	AV-D-15	46 kg
of the		3000	2800		CCBSB-AV-D-30		85 kg
cutting line	LCD	4500	43	00	CCBSB-AV-D-45		124 kg
	display	6000	58	00	CCBSB-AV-D-60		163 kg
		7500	73	00	CCBSB-	AV-D-75	201 kg
		9000	8800		CCBSB-	AV-D-90	240 kg
√122	√172	√222	√ 322	421	521	721	1100



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Orbital Cutting - Accessories



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

The additional tube support bench allows you to position your longest tubes in a stable manner on all benches.

We also recommend that you support the cut section in front of your cutting machine using one or more additional benches, depending on the length of the tube.

These products are available on request

	1	Product Co	ode	Description	Net	weight	Dimensions			
			CCBSB2-003 Height-adjustable table 53.5 kg 75 x 73 x 54 mm							
		Height-adj	Height-adjustable table for 422 / 521 / 721:							
		- adjustabl - optimum	le table heiç stability	ght						
122	172	222	322	√ 421	<mark>√</mark> 521	√721	1100			

)	Product Co	de C	Description	Net Weig	ght Di	mensions
		CCBSB2-00	04 Tube	support benc	ch 72.8 k	g 97 x 7	71 x 150 mm
V	Ļ		embly and ustment	f <u>or 422 / 521 ,</u> I dismantling	<u>/ 721:</u>		
122 172	2	222	322	√ 421	√ 521	√ 721	1100

. Ale	and f	Pro Pro	duct Code	Description	n Net we	eight Di	mensions
			BSB2-005	Connecting b	oar 6.5 k	kg 8.5 x	x 4 x 65 mm
		<u>n</u> <u>Conr</u>	necting bar b	etween two C	CBSB2 supp	oort benches	<u>):</u>
	1		ck assembly sures optimur	and dismantli m stability	ng		
122	172	222	322	<mark>√</mark> 421	√521	<mark>√</mark> 721	1100



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INNOVATIVE ORBITAL SOLUTIONS

Orbital Cutting - Accessories

New autoline electric rotation:

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

- enables the motor and cycle to be stopped in the

event of overconsumption

- protects the motor and frees the operator from

watching the machine

- detects whether the motor is straining and

whether the blade is worn

Welding mode with prefab machine and SAXX generator: 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 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 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	Desc	ription	Net Weight	Dimensi	ons(in mm)		
		SAEX-00		e electric ation	6.3 kg	320 x 2	261x 193		
	AXXAIR	Autoline elect	Autoline electric inverter for CC122 to 322:						
	B ANALE	- 110 V to 230 - even rotatior	110 V to 230 V			tment			
√ 122	√ 172	√222	√322	421	521	721	1100		

		Product Coc	de Desc	ription	Net Weight	Dimens	ions (in mm)
				e electric ation	6.3 kg	320 x	261x 193
	· AXXAIR	Autoline elec	ctric inverte	er for CC42	<u>21 to 721:</u>		
•	a arran		- 110 V to 230 V - even rotation			ment	
122	172	222 322 √421 √521 √721 1			1100		
	`						



Orbital Cutting - Consumables

AXXAIR INNOVATIVE ORBITAL SOLUTIONS

INNOVATIVE ORBITAL SOLO

Orbital cutting blades

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

-The tooth pitch & design are essential for chip evacuation, in order to achieve a high quality cut. AXXAIR has produced the most efficient blade design possible for various cutting applications.

-Often preferred to our competitors' blades, AXXAIR blades are compatible with the majority of other orbital cutting machines.

2	Product Co		luct Code	Cutting tube thicknes		Blade ø	Number of teeth
-	E	LS6844		2 to 7mm	0.08 – 0.28"	68 mm	44
		L	_S8034	5 to 12 mm	0.20 – 0.47"	80 mm	34
1		L	_S8054	2 to 7 mm	0.08 – 0.28"	80 mm	54
		L	_S9038	5 to 15 mm	0.20 – 0.59"	90 mm	38
			CA9028A	4 to 15 mm	0.15 – 0.59"	90 mm	28
			individually)		bon steel ONL FS19 high-spe s performed W	ed motor.	
			LC300 individually)	30 ° bevell	ing blade	78 mm	20
YA	(sold individually)		37.5 ° bevelling blade		78 mm	20	
<mark>√</mark> 172	√2	22	√ 322	√422	√521	<mark>√</mark> 721	√ 1100

	A		Produ	Ict Code	De	scription		Volume
			CC	CLUH	liqui	d lubricant		250 ml
			- Rec	ommended	e oil lubricant, for all FS cutt et available oi	ing motors	<u>s of 5:</u>	
√ 122	√ 172	√22	22	√322	√422	√ 521	√ 721	√ 1100



√122

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



Accessories (electric clamping)





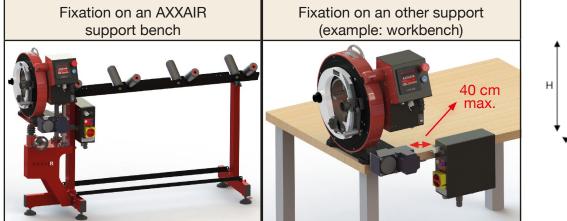
You realize **important series** in your company and want to be more effective during your projects? Our electric clamping is the ideal answer for the preparation and / or welding of your tubes.

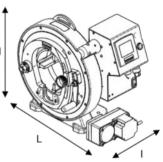
The electric clamping makes it possible to carry out a **repetitive and constant force tightening** on tubes with identical diameters and thicknesses.

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





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Product code	Body frame, automatic ro Machine's jaw ope	Net weight	Dimensions (HxLxI in mm)	
ooue	With basic jaws			
122-AU	Ø29 - Ø1 <mark>19</mark>	Ø 5 - Ø99	51 kg	470 x 498 x 359
172-AU	Ø74 - Ø1 <mark>73</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.



1 machine - 3 applications





Produ	ict Code	Des	scription		Net weight			
FS xx	/ MOPD	Cutt	ing motor		5 kg			
_ow-speed / high-speed / pneumatic motor with du					output (uptake):			
	Produc	Frame		e this motor you will need to				
120V	Low-speed	motor: FS15	122	order: suitable cutting blades for the tube thickness you want to cut				
1200	High-speed	motor: FS19	172	an	d, if necessary, lubricant.			
230V	Low-speed	motor: FS25		All int	ormation and relevant pro-			
2300	High-speed	motor: FS29	222	duct	ct codes appear in the orbital			
Pneu- matic	MC)PD	322		cutting accessories and consu- mables section of this catalogue.			

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

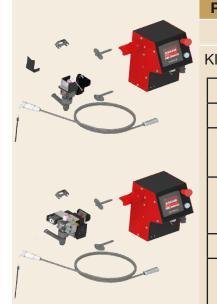
120V / 230V beveling motor supplied with a chip shield and a workpiece guide tailored to the frame of your cutting / prefab welding machine:

	Product Code	Frame	
	GA10-M1-122	122	
	GA10-M1-172	172	
120V	GA10-M1-222	222	230
	GA10-M1-322	322	

	Product Code	Frame
	GA10-M2-122	122
230V	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		depending on the chosen product	
IT for upgrading a CC/GA to an SX Air / Water / AVC+OSC torch				
Cooling	Product Code	Fr	ame	To use this KIT and to
AIR	SX-2KITA	122 172 222 322		prefab weld, you will need to order: a suitable AXXAIR welding power supply
EAU	SX-2KITE			
	SX-2KITNAOF (AVC/OSC)			
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	122	relevant product codes appear in the	
EAU	SX-3KITE		172 222	orbital welding section of this catalogue.
	SX-3KITNAOF (AVC/OSC)		322	