

The ECO Cutting range 81M - 121ECO - 171ECO





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

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

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

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

Machines dedicated to thin tubes <3 mm wall thickness

Easy to transport and less heavy

Attractive prices

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

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

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

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

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

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







81M - 121ECO - 171ECO





No tube deforming

Concentric clamping system

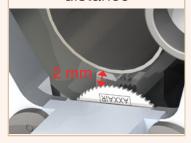




Basic and extra stainless steel jaws: no pollution of the pipes

Limited vibration and tube distortion

Optimized blade-jaws distance





Elbow Cutting

121ECO +171ECO: double shafted cutting motor with 2 blade positions

Motor 1300W

Adjustment via the speed changer

Cutting capacity:

Up to 5 mm wall thickness



Cutting precision

Perpendicular cuts < 0.25 mm

Continuous use

Anti twist cable





Cutting range									
81M	<mark>ø5 -</mark> ø78 mm 0.25 – 3 "								
121ECO	ø5 - ø121 mm 0.25 – 4.5 "								
171ECO	<mark>ø16 -</mark> ø170 mm 0.625 – 6.625 "								





81M - 121ECO - 171ECO

Technical features:

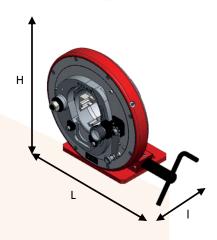
METABO motorisation offers a large range of speed and an adequate torque for thin wall stainless steel tubes applications.

Electric motor 1300W:

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

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

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





	Deference	Tube cutting mad diameter	Net	Customs	Dimensions	
	Reference	With basic jaws (included) weight		weight	Code	(HxLxw in mm)
	81M11	Ø5 - Ø78	-	15 kg		263 x 346 x 236
120V 1300W	121ECO1	Ø24 - Ø1 <mark>21</mark>	21 Ø5 - Ø108 38 kg ⁸⁴⁶¹⁵⁰ 9000		432 x 520 x 297	
	171ECO1	Ø70 - Ø1 <mark>70</mark>	Ø <mark>16</mark> - Ø118	44 kg		453 x 550 x 307
	81M21	Ø5 - Ø78	-	15 kg		263 x 346 x 236
230V 1300W	121ECO2	Ø24 - Ø1 <mark>21</mark>	Ø <mark>5</mark> - Ø108	38 kg	846150 9000	432 x 520 x 297
.55011	171ECO2	Ø70 - Ø1 <mark>70</mark>	Ø <mark>16</mark> - Ø118	44 kg		453 x 550 x 307







NEW PRODUCTS in the orbital cutting range CCx22



Customer experience and continuous improvement policy have lead our developpers to redesign part of our cutting program. The purpose is to offer easier and stronger clamping and chip sealing. Quality is higher than ever and

stability has been improved.

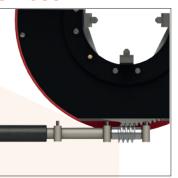


Handling facility

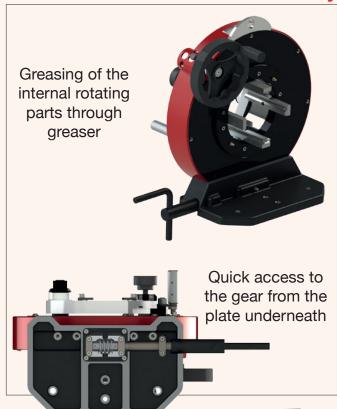
Inclusion of a lifting ring on the machine for on site or workshop use.

Clamping system more efficient (+30%) with an endless screw directly engaged on the

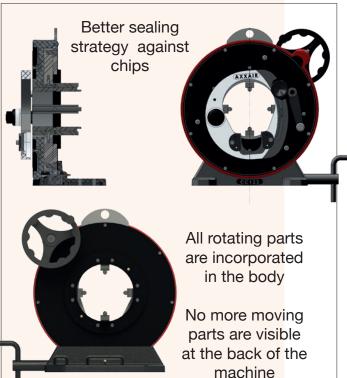
clamping cam.



Maintenance and control facility



Perfect sealing to chips





122 - 172 - 222 - 322 🐼

AXXAIR INNOVATIVE ORBITAL SOLUTIONS

Cutting quality

Rotation handle for controlled and continuous cutting speed

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Elbow cutting

Double shafted cutting motor with 2 blade positions

Cutting precision

Perpendicular cuts < 0.25 mm

1200W motor or pneumatic motor (user's choice)

Cutting capacity:

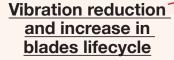
Up to 7 mm wall thickness

No tube deforming

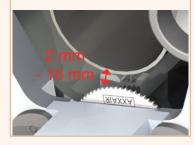
Concentric clamping system



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



Optimized blade-jaws distance



Global Process

May be transformed into a beveling and orbital welding machine

Continuous use

Anti-twist cable







122-172 - 222-322

Technical features:

- Fast motor:

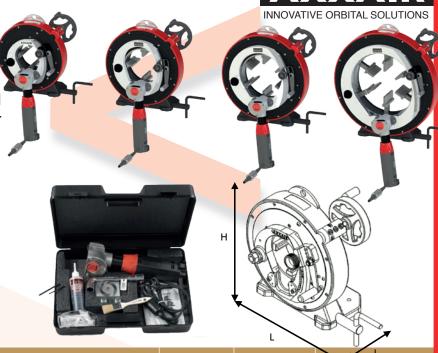
120V or 230V, 1200W, electronic speed variator with torque compensator

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

- Pneumatic motor:

60 to 110 rpm, air flow rate1500 l/min at 6 bar.

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



	Deferre		ube cutting machine for following diameters (in mm):		Customs	Dimensions (Hyl yw in	
	Reference	With basic jaws	With extra jaws (included)	weight	Code	(HxLxw in mm)	
120V	122FS19	Ø24 - Ø <mark>120</mark>	Ø <mark>5</mark> - Ø108	44 kg		443 x 541 x 304	
1200W	172FS19	Ø70 - Ø <mark>170</mark>	Ø <mark>16</mark> - Ø118	51 kg	846150 9000	493 x 566 x 304	
fast	222FS19	Ø116 - Ø <mark>225</mark>	Ø59 - Ø172	59 kg	3000	548 x 594 x 304	
motor	322FS19	Ø257 - Ø <mark>330</mark>	Ø140 - Ø270	71 kg		649 x 644 x 304	
	122FS29	Ø24 - Ø <mark>120</mark>	Ø5 - Ø108	44 kg		443 x 541 x304	
230V 1200W	172FS29	Ø70 - Ø1 <mark>70</mark>	Ø <mark>16</mark> - Ø118	51 kg	846150	493 x 566 x 304	
fast motor	222FS29	Ø116 - Ø <mark>225</mark>	Ø59 - Ø172	59 kg	9000	548 x 594 x 304	
motor	322FS29	Ø257 - Ø <mark>330</mark>	Ø <mark>140</mark> - Ø270	71 kg		649 x 644 x 304	
	122PD	Ø24 - Ø <mark>120</mark>	Ø <mark>5</mark> - Ø108	44 kg		443 x 541 x304	
Pneu- matic	172PD	Ø70 - Ø <mark>170</mark>	Ø <mark>16</mark> - Ø118	51 kg	846150	493 x 566 x 304	
motor	222PD	Ø116 - Ø <mark>225</mark>	Ø <mark>59</mark> - Ø172	59 kg	9000	548 x 594 x 304	
	322PD	Ø257 - Ø <mark>330</mark>	Ø140- Ø270	71 kg		649 x 644 x 304	







AXXAIR INNOVATIVE ORBITAL SOLUTIONS

No tube deforming

Concentric clamping system



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



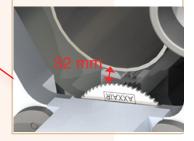
Double shafted cutting motor with 2 blade positions

Cutting quality

Rotation handle for controlled and continuous cutting speed

Vibration reduction and increase in blades lifecycle

Optimized blade-jaws distance



Continuous use

Anti-twist cable

Cutting precision

Perpendicular cuts < 0.4 mm

Easy handling and transportation



1200W motor or pneumatic motor

(user's choice)

Cutting capacity:

Up to 7 mm wall thickness

Cı	utting ra	nge
421		ø422 mm 5 - 16 "
521		ø522 mm 5 – 20 "
721		ø725 mm – 28"
1100		ø1016 mm – 40 "





421-521-721-1100

AXXAIR INNOVATIVE ORBITAL SOLUTIONS

Technical features:

- Fast motor:

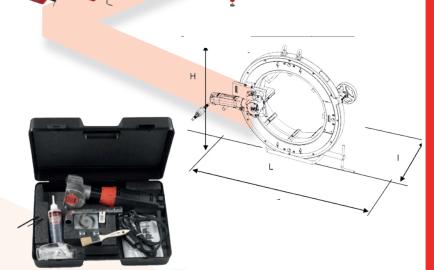
120V or 230V, 1200W, electronic speed variator with torque compensator *Vibration level according to EN 28662 norm :*

<2.5m/s², protection class : IP 20

- Pneumatic motor:

60 to 110 rpm, air flow rate1500 l/min at 6 bar

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



	Tube cutting machine diameters (in r		_	Net	Customs	Dimensions	
	Reference	With basic jaws	With extra jaws (included)	weight	Code	(HxLxw in mm)	
120V	421FS19	Ø350 - Ø4 <mark>22</mark>	Ø <mark>212</mark> - Ø352	186 kg		802x838x315	
1200W fast	521FS19	Ø450 - Ø <mark>522</mark>	Ø <mark>312</mark> - Ø452	223 kg	84615 09000	905x889x315	
motor	721FS19	Ø653 -Ø <mark>725</mark>	Ø 447 - Ø654	256 kg		1104x1077x315	
230V	421FS29	Ø350 - Ø <mark>422</mark>	Ø <mark>212</mark> - Ø352	186 kg		802x838x315	
1200W fast	521FS29	Ø450 - Ø <mark>522</mark>	Ø <mark>312</mark> - Ø452	223 kg	84615 09000	905x889x315	
motor	721FS29	Ø653 -Ø <mark>725</mark>	Ø 447 - 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	84615 09000	905x889x315	
motor	721PD	Ø653 -Ø <mark>725</mark>	Ø <mark>447</mark> - Ø654	256 kg		1104x1077x315	
	1100		On dema	and			









In order to facilitate cutting and provide great stability to our machines, we worked on support feet and stands that can adapt to diverse conditions: either in a workshop or onsite.

The advantages of these products:

- lightness
- flexible handling
- easy to use



Reference	Description	Net Weight	Customs Code	Dimensions (in cm)
CCPS21	Support feet	10 kg	84669 37000	103 x 32 x 11

Support feet for orbital cutting machine:

- easy assembling and dismantling
- height adjustment with screws
- storage box at the back
- great stability

81	√121ECO √171EC	O √ 122	√172	√222	√322	421	521	721	1100
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Reference	Description	Net Weight	Customs Code	Dimensions (in cm)
CCSER1	Simple stand	10 kg	84669 37000	60 x 26 x 10

Simple stand for tube support with height adjustment:

- easy assembling and dismantling
- height adjustment

√81 √121ECO √171ECO √122 √172 √222 √322 421	521	521 721 1	100
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Reference	Description	Net Weight	Customs Code	Dimensions (in cm)
CCSER2	Bearing stand	11 kg	84669 37000	60 x 26 x 10

Chrome steel bearing stand for tube support with height adjustment:

- easy assembling and dismantling
- height adjustment

 facilitate tube advancement after the cutting process

√81	√121ECO	√171ECO	√ 122	√ 172	√ 222	√322	421	521	721	1100
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Our support benches help you to set and move tubes without the need of stands.

The integrated adjustable height table helps you to adjust the height of your machine easily and precisely for a better cut.

The additional bench allows you to set the longest tubes in a more stable way.

We also advise that you have one or more benches in front of your cutting machine in order to support the cut off part of the tube. This new bench with height adjustment has had several improvements for better use:

- The rollers have been modified to include smaller diameters pipes (ø 5 to 323 mm).
- Standard angular gearbox (home manufactured) also available on the DC and other motors of the range.
- CCBSB-X1 benches compatible with length stops.

Length stops are being developped at the moment and will soon be available!



Reference	Description	Net Weight	Customs Code	Dimensions (in cm)
CCBSB-X1	Bench with height adjustment	57 kg	84669 37000	184 x 95 x 51
Bench with hei	ght adjustment:	- maximum lo	oad: 350 kg	

- stainless steel rollers

- handle for height adjustment

-1.5 m long

uniformly distributed

- ø min pipe: 5 mm

- ø max pipe: 321 mm

- compatible with machines 121 to 321

81 **\sqrt{121ECO} \sqrt{171ECO} \sqrt{122} \sqrt{172} \sqrt{222} \sqrt{322} \sqrt{421} \sqrt{521} \sqrt{721} \sqrt{1100}**



Reference	Description	Net weight	Customs code	Dimensions (in cm)
CCBSB-X2	Additional 1.5 m bench	38 kg	84669 37000	150 x 95 x 51

Additionnal support bench:

- stainless steel rollers

- 1.5 m long

 maximum load 350 kg uniformly distributed ø min pipe : 5 mmø max pipe: 321 mm

- compatible with machines 121 to 321

81 **121ECO 171ECO 122 172 12**







Our support benches help you to set and move tubes without the need of stands. The integrated adjustable height table helps you to adjust the height of your machine easily and precisely for a better cut.

Products available on demand

The additional bench allows you to set the longest tubes in a more stable way.

We also advise that you have one or more benches in front of your cutting machine in order to support the removed part of the tube.



Reference	Description	Net weight	Customs Code	Dimensions (in mm)
CCBSB2-03	Adjustable height table	53.5 kg	84669 37000	

Adjustable height table for 422 / 521 / 721:

adjustable table
 great stability

81	121ECO	171ECO	122	172	222	322	√ 421	√521	√ 721	1100
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Reference	Description	Net Weight	Customs Code	Dimensions (in mm)
CCBSB2-004	Support bench	72.8 kg	84669 37000	

Support bench for 422 / 521 / 721:

- fast assembly and dismantling 1.5 m long
- height adjustment
- great stability
- maximum load :

81	121ECO	171ECO	122	172	222	322	√ 421	√ 521	√ 721	1100
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Référence	Description	Poids net	Code douanier	Dimensions (en mm)
CCBSB2-005	Connection kit	6.5 kg	84669 37000	

Connection kit for bench CCBSB2:

fast assembly and dismantling
 help to great stability

81	121ECO	171ECO	122	172	222	322	√ 421	√ 521	√ 721	1100
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New electric rotation autoline:

- Measures and indicates cutting/beveling motor's power consumption
- Can stop motor or cycle in case of overconsumption
- Protects motor and frees operator from watching the machine
- Detects if blades are used and if the motor is forcing

Welding mode with prefab machine and SAXX generator: Display of 4 buttons (Start, Stop, Left, Right) with additionnal cable to the generator. (Ref. SAEX-A02 in addition, more details in «ORBITAL WELDING» part of the catalogue)

3,5 color tactile screen allowing to:

- fill in the diameter and set the feed speed in mm/min
- help the correct setting by offering the right feed speed and motor speed according to the blade's type
- perform simple and fast configuration
- print cutting/bevelling motor's consumption
- display options in french and english
- choose unity of measurement : mm or inch

This rotation is also suitable for previous models 121,171,221, 321.

Former rotation SAEP-00/000 is not compatible with new models 122, 172, 222, 322.



Reference	Description	Net Weight	Customs Code	Dimensions (in mm)
SAEX-00	Electric rotation autoline	6.3 kg	8515 900090	320 x 261x 193

Electric rotation autoline for CC122 to 322:

- 110 V to 230 V

- simple use

- rounds regularity

- precise setting

81	121ECO	171ECO	√ 122	√ 172	√222	√322	421	521	721	1100
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Reference	Description	Net Weight	Customs Code	Dimensions (in mm)
SAEX-000	Electric rotation autoline	6.3 kg	8515 900090	320 x 261x 193

Electric rotation autoline for CC421 to 721:

- 110 V to 230 V

- simple use

- rounds regularity

- precise setting

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

√1100



Orbital Cutting - Consummables





Orbital cutting blades

Customs Code: 8202310000

√721

Blades High Speed Steel (HSS + Cobalt) sold by boxes of 5:

-The tooth pitch & design are essential for evacuating chips in order to obtain a high quality cut. AXXAIR has worked to make the most efficient blade designs to fit tube and pipe cutting applications.

-Often preferred over the blades of our competitors, AXXAIR blades are suitable with most of other cutting machines.



121ECO 171ECO

√122

√172

Refe	erence		g pipe: hickne	with wall of		ø of t			mber of eeth	
LS	63128	0,5 to 0,9 mm			,02 - ,04"		63 m	ım		128
LS	63100	0,7 to 1,5 mm			,03 - ,06"		63 m	m		100
LS	6364	1 to 3 mm			,04 - ,12"	63 m	m		64	
LS	6872	1 to 3	mm	,04 - ,12"			68 m	m		72
LS	6844	2 to 7	mm	,08- ,28"			68 mm			44
LS	08083	1 to 3 mm			,04 - ,12"		80 mm		80	
LS	88054	2 to 7 mm		,08- ,28"		80 mm			54	

P. 20000 20 00 - P. 20

√81

ReferenceDescriptionVolumeCustoms CodeCCLUHLiquid lubricant250 ml3403198000

√422

√521

High performance oil lubricant, sold by boxes of 5 bottles:

√322

- Advised for fast cutting motors (FS29/19)
- Safety instructions available on demand

81	121ECO	171ECO	√122	√172	√222	√322	√ 422	√521	√721	√1100
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√222



Reference	Description	Volume	Customs Code
CCLUP	Paste lubricant	250 ml	3403198000

Paste lubricant, sold by boxes of 5 lubricants-tubes:

- Advised for metabo motors
- Safety instructions on demand

√81	√121ECO	√171ECO	122	172	222	322	422	521	721	1100	
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