

AXXAIR Orbital facing

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INNOVATIVE ORBITAL SOLUTIONS

Tube facing is used on thin tubes with a thickness of less than 3 mm. It consists in bringing into conformity the end of a tube or an accessory.

This conformity acts on three aspects:

the perpendicularity of the face of the tube -
the surface state of the face - potentially a length adjustment.

After the facing process, the face will be perpendicular to the axis of the tube, without burrs, with a low RA and the desired length.

Facing machines are used when the cutting process is not sufficiently precise for the application or when the cutting process generates burrs.

To give an exemple: abrasive cutting disc, band saw or tube cutter.



Tube with small diameters <math>< 25.4\text{ mm}</math> are particularly concerned by the facing process. They are often cut with tube cutters or abrasive cutting machines. Generally speaking, tube must be faced before welding in order to obtain quality welds.

One category of tube is particularly concerned: electropolished tube used in semiconductor or pharmaceutical industries.

It is forbidden to scratch the polished surface inside the tubes: the cuts are therefore only done with a cutting wheel. This process does not generate chips but only dust. The result of this cut is not exploitable without a facing operation which unrolls the chip towards the outside of the tube.

FLEXIBILITY, PRODUCTIVITY

Our facing machines operate on battery or corded for more flexibility. HSS TIALN blades, reversible with two cutting edges guarantee optimal lifetime of consumables.

QUALITY

Facing creates a clean and burr-free surface without tube deformation: sharpness and accuracy guaranteed.

Thin tube are therefore ready for welding.

PORTABILITY

Our facing machines are lightweight and designed to be used on site as well as in the workshop.



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

We will be glad to share our know-how with you and find an adapted solution to your needs!



DC115-AM - 221-AM

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Clamping shells

DC115 : Stainless steel clamping jaws

DC221 : Aluminium clamping jaws



Accurate manual advance

0.1 mm steps (0,0393")

30° and 45° outside bevel

possible with optional tool holder

Easy set up of of tube

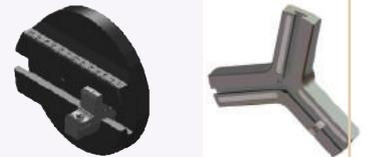
1 set of jaws for each diameter



Multi-tools

Possibility to use two (DC115) or three (DC221) tools simultaneously

Sliding adjustment of tool holder offers easy diameter change and optimal tip wearing



Delivered in a wooden box



1100 W motor

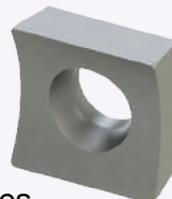
Motor mains 1100W with large speed range (2 gears)

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

High quality blades

HSS TIALN blade.

Reversible, two cutting edges



Facing range

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



DC115-AM - 221-AM

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Technical characteristics:

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

Burr-free tube squaring and edge breaking machine used after a band saw cut or on electropolished tubes. Ideal tool to face a band saw cut before automatic welding

- Accurate manual advance: 4/1000" (0,1 mm) step graduation
- Sliding adjustment of tool holder offers easy diameter change and optimal tip wearing
- 30° and 45° outside edge breaking possible with optional tool holder
- Squaring and edge breaking in one operation

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



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

	Product Code	Facing machine for the following diameters (in mm)	Net weight	Minimal straight length of tube	Dimensions (HxLxI in mm)
120V Moteur 1100W	DC115-AM1	Ø12 - Ø115 0.5" - 4.5"	11 kg	28 mm 1.102"	219x314x462
	DC221-AM1	Ø50 - Ø220 2" - 8.5"	21 kg	39 mm 1.535"	327x425x540
230 V Moteur 1100W	DC 115-AM2	Ø12 - Ø115 0.5" - 4.5"	11 kg	28 mm 1.102"	219x314x462
	DC221- AM2	Ø50 - Ø220 2" - 8.5"	21 kg	39 mm 1.535"	327x425x540

