



TUBE CUTTING MACHINE

FOR THE CUTTING OF TUBES IN BARS WITH SCORE AND PULL-APART SYSTEM



The tube cutting machine is a device suitable to cut tubes to a required length, starting from bars (straight lengths).

It has been developed to eliminate all the problems which exist with the orbital cutting systems, which are conceptually similar but realized with scoring wheels.

The main work of this device is to cut the tubes without causing a deformation of the tube in correspondence with the cut edge.

The cut, in fact, is not carried out by blades, which insist orthogonally on the wall of the tube, but is carried out through the combined action of:

- a scoring tooth (realized with three keen tooling) which removes progressively materials along a circular section of the cylindrical wall, reducing only the wall thickness, and of
- a clamp which breaks the segment of the tube.

Depending on the requested level of automation, the tube cutting line is available in 3 versions.

The manual version of the tube cutting line requires that loading of the straight length, tube displacement and unloading of the cut pieces to be done manually.



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MANUAL VERSION



WATCH THE VIDEO

The cutting device with manual feeding is the most appropriate for small production quantities.

The unit is composed of:

- A support made of varnished electro welded section, on which the bars of tubes to be cut with max. length of 6000 mm are positioned
- A motorized rotating device for the cut of the tube, complete for one diameter of tube
- A mobile metric mechanical reference to set the cutting length, up to xxxx mm
- An electrical control with button for the functioning of the device

Quick format change

At diameter change: 5 min, replacement of the tube holding clamps and the guide bushings.



See video

**TECHNICAL FEATURES**

Material of tubes to be cut	:	steel, stainless steel, copper and aluminium
Thickness of the tube to be cut	:	mm 0,3-1,0
External tube diameter	:	mm 6 – 22 (to be defined)
Min. length to be cut	:	mm 100
Pneumatic supply	:	Bar 6
Electrical power	:	KW 1,2
Voltage	:	V To be defined
Time to change cut length	:	min. 2
Time to change tube diameter	:	min. 5
Cutting time (score and break operation)	:	sec. 2,5 ÷ 3,5

AVAILABLE VERSIONS**STANDARD VERSION****Mod. 112/09.SBMX00 Tube diameter from 6 mm to 22 mm**

For tube cutting length up to XXX mm (available in any length), tube diameter between 6 – 22 mm, thickness between 0,3 – 1,0 mm, length of support for tubes before cutting 6.000 mm.

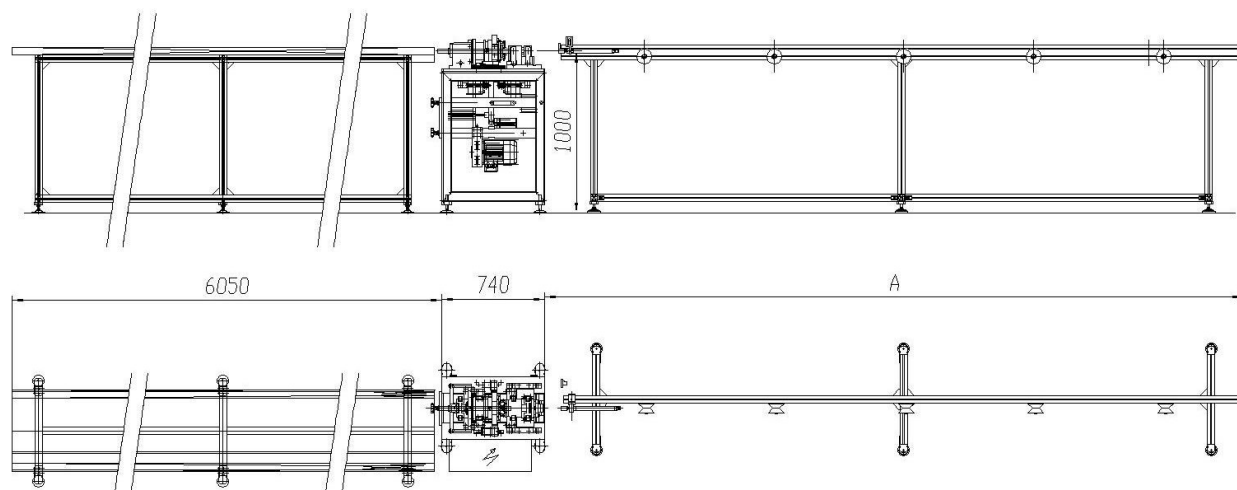
VERSIONS FOR SMALL TUBE DIAMETER**Mod. 112/09.SBSX01 Tube diameter from 1,8 mm to 10 mm**

For tube cutting length up to XXX mm (available in any length), tube diameter between 1,8 – 10 mm, thickness between 0,3 – 1,0 mm, length of support for tubes before cutting 6.000 mm.

OPTIONAL PARTS**Mod. 112/00.SB0011 Set of parts for second diameter of tube**



LAYOUT OF THE MANUAL TUBE CUTTING MACHINE



For max. length of cut tube 2000 mm	A = 2800 mm
For max. length of cut tube 3000 mm	A = 3300 mm
For max. length of cut tube 4000 mm	A = 4300 mm
For max. length of cut tube 6000 mm	A = 6300 mm

