

Macchine per l'industria del filtro

A.BOSIO

Filter industry machines

BOSIO ALFREDO

COSTRUZIONI MECCANICHE e TORNERIA

www.bosio.it

Via Medole, 13/15 - Zona artigianale Gambarara - 46100 MANTOVA - Italy
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C.C.I.A.A. 158769 MN - Cod. fisc. BSOLRD46M19E962M
P.I.a IVA00235840204 - V.A.T. N° IT 00235840204



Catalogue

Macchine per l'industria del filtro

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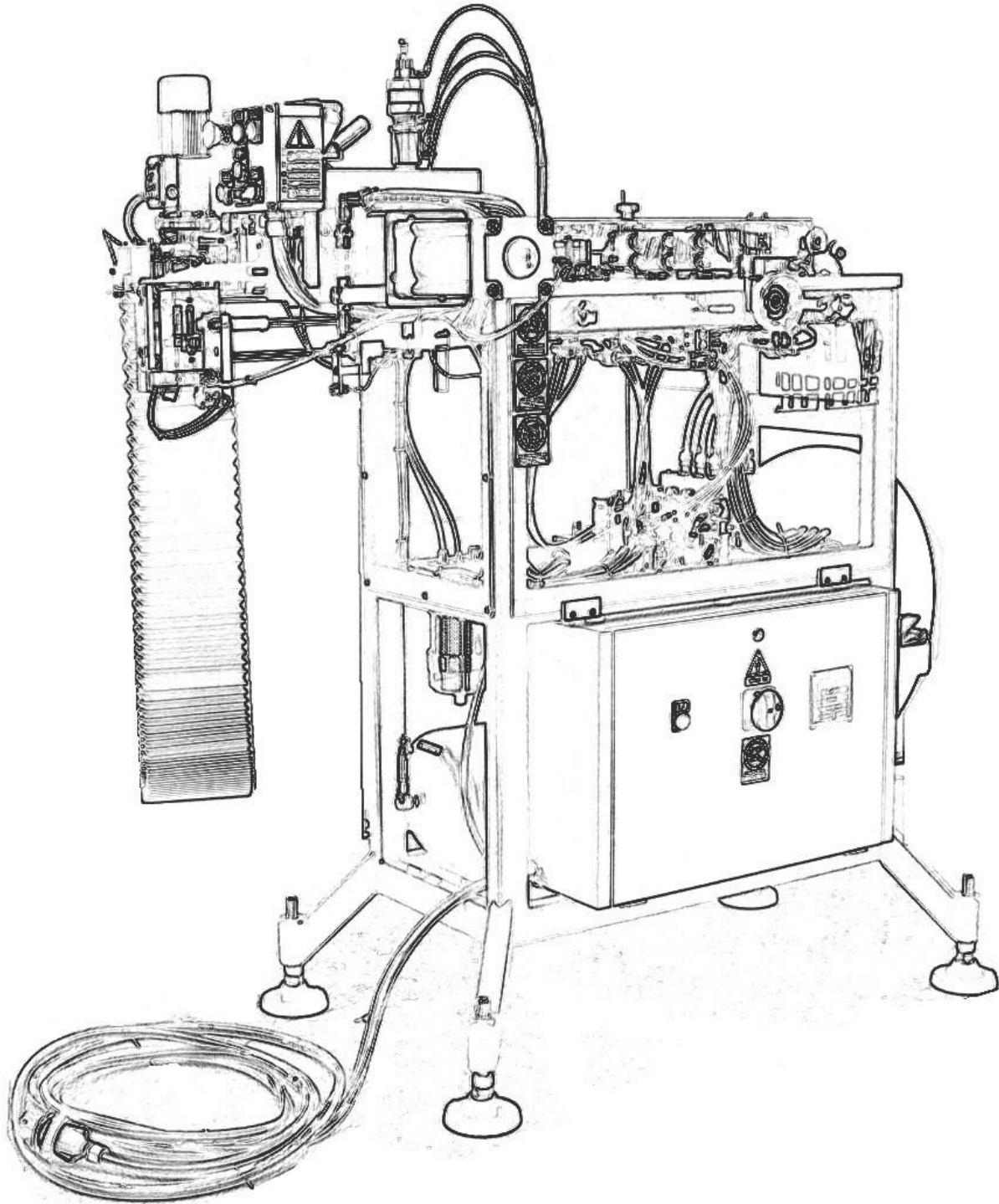
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The company BOSIO ALFREDO Costruzioni Meccaniche is specialized in the design, engineering and construction of machines and equipment for assembling filters and test benches for checking them. It is an experienced and dynamic partner that among its finest merits features versatility, customer dedication and the high quality level of its products.

The main supply sectors are:

- Automotive filters
- Industrial filters
- Oil hydraulic filters
- Air filters
- Hydraulic filters

Established in the seventies, BOSIO ALFREDO Costruzioni Meccaniche has to date built over 500 machines that have joined the filter production lines of the most important companies in the sector both in Italy and in the rest of the world.

The range of our products, of which you will find a brief presentation on the following pages, includes automatic and manual machines in continuous evolution and completely customizable to be adapted to customer requirements.

All the products, assembled with parts skilfully made in our factory and with top quality trade components, strictly conform to the severe safety standards of the markets where they are sold and they are equipped with the necessary technical documentation.

If you are interested in our products or if you have particular needs for the construction of special machines, even for other sectors than that of filtering, please do not hesitate to contact us and we will be glad to be at your disposal.

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PRODUCTS

MACHINE NAME	MODELS
Automatic clipping machine	AA/150 , AA/250 , AA/350 , AA/450, AA/600
Semi-automatic clipping machine	AS/150, AS/250 , AS/300 , AS/400 , AS/500 , AS/600, AS/700
Manual clipping machine	AM/300 , AM/400 , AM/500 , AM/600 , AM/700 , AM/800
Automatic clipping machine compliant to CE standards	AA/150-CE , AA/250-CE , AA/350-CE , AA/450-CE, AA/600-CE
Semi-automatic clipping machine compliant to CE standards	AS/150-CE, AS/250-CE , AS/300-CE , AS/400-CE , AS/500-CE , AS/600-CE , AS/700-CE
Manual clipping machine compliant to CE standards	AM/300-CE , AM/400-CE , AM/500-CE , AM/600-CE , AM/700-CE , AM/800-CE
Automatic ultrasonic edge welding machine	GLA/400-CE
Ultrasonic edge welding machine	GLM/1050-CE
Bubble-point test bench	BPT/DL-CE
Burst Test Bench	BPS/D-CE
Porosimeter Test Bench	BPP/CE
Anti-emptying and anti-drainage valve seal test bench	V/AS-CE
Plate welding machine	ISCA-2T
On-line glue dispenser	MAF/FG-CE
Automatic pick&place island	ISCA-FT5
Hot-melt end caps forming machine	MAF/8ST-CE
Dimensional testing machine	CDF/8ST-CE

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By-pass valve assembling machine	WAL/2P-6/CE
Automatic profiling machine	PA/700-CE
Cross cutter	TTM/450-CE , TTM/800-CE
Caulking unit	UCG/V1-CE
Special machines for any sectors other than filtering	MA/BC-CE , MB-L/CE , MB/5-CE

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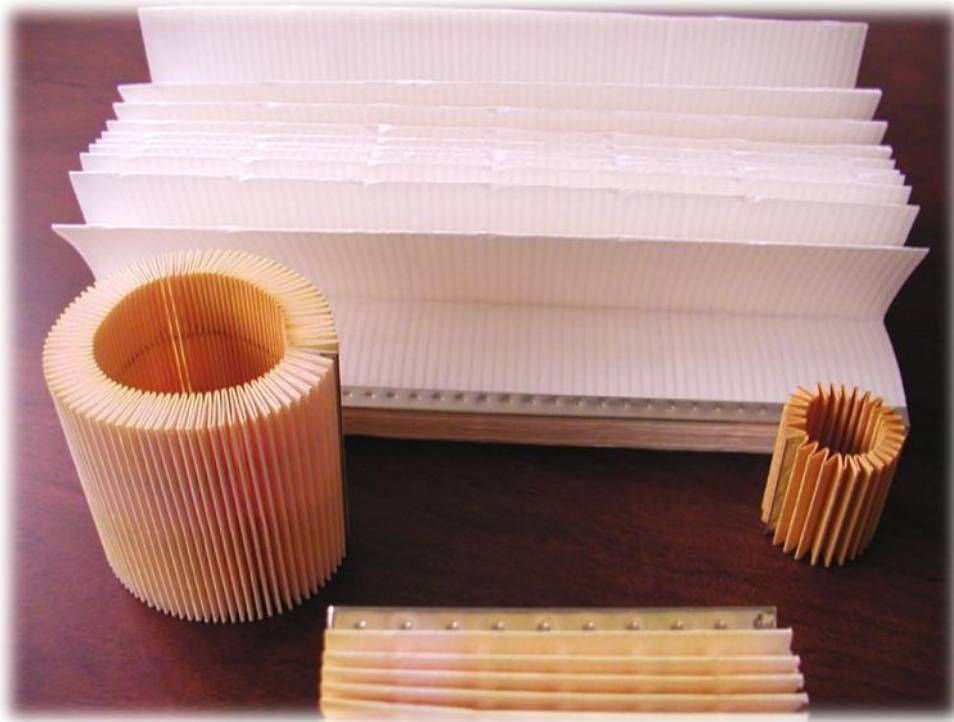
Automatic clipping machine

This machine joins the first and last pleat edges of pleated media by clipping with a metal band.

The metal band, clipped on the filter by pressing and cutting, is stamped with elements that increase the effectiveness of the closure such as dimples or longitudinal grooves, at the customer's request.

This type of machine is above all ideal for clipping filters made from paper.

In order to be able to work at a high production rate, the machine is equipped with an automatic motorized system for inserting the filter in the clipping head composed of an upper part (system with filter drive belts) and a lower part (pneumatic system with thrust lever).



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Automatic clipping machine

Available models: AA/150 , AA/250 , AA/350 , AA/450, AA/600

Main technical characteristics:

- Max. production capacity: 20-25 pieces per minute (model AA/350 with filter length 100-150 mm)
(it also depends on the operator's skill in feeding the piece to be clipped inside the automatic loader)
- Feeding of the piece to be processed: manual
- Discharge of the processed piece: automatic
- Filtering media; Minimum pleat length: 25 mm
- Filtering media; Maximum pleat length: 150; 250; 350; 450 mm (*)
- Filtering media; Minimum pleat height: 6; 8; 10; 12 mm (*)
- Filtering media; Maximum pleat height: 38; 52 mm (*)
- Metal band material: galvanised steel; stainless steel
- Metal band width: 10; 12; 12.7; 14; 16 mm (*)
- Metal band thickness: 0.2; 0.25; 0.3; 0.4 mm (*)
- Pneumatic power supply: compressed air, 5-6 bar pressure
- Electric power supply: 230 V AC – 50 Hz (other voltages upon request) (*)
- Machine dimensions and weight (model AA/350):
- Width: 800 mm
- Length: 2000 mm
- Height: 1800 mm
- Weight: 440 kg

(*) = characteristics to be chosen before ordering the machine.

Main optional available equipment: see page 30



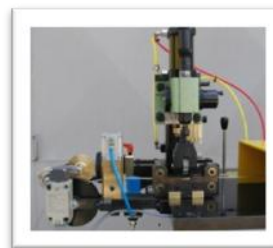
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TRIMMING DIE



SIDE LOADING DECOILER



VERTICALIZING
EJECTOR



METAL BAND PUNCH



MOTORIZED DOUBLE
DECOILER

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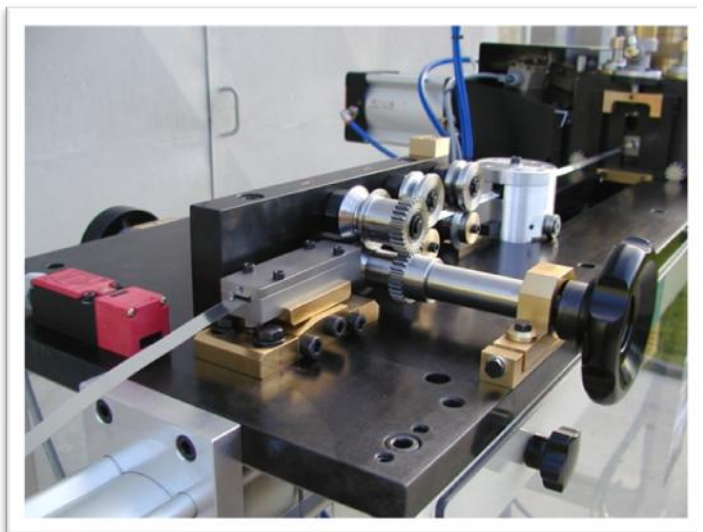
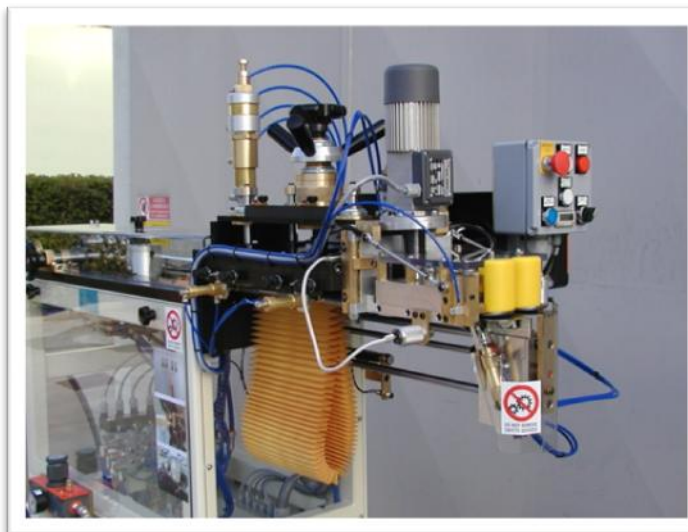
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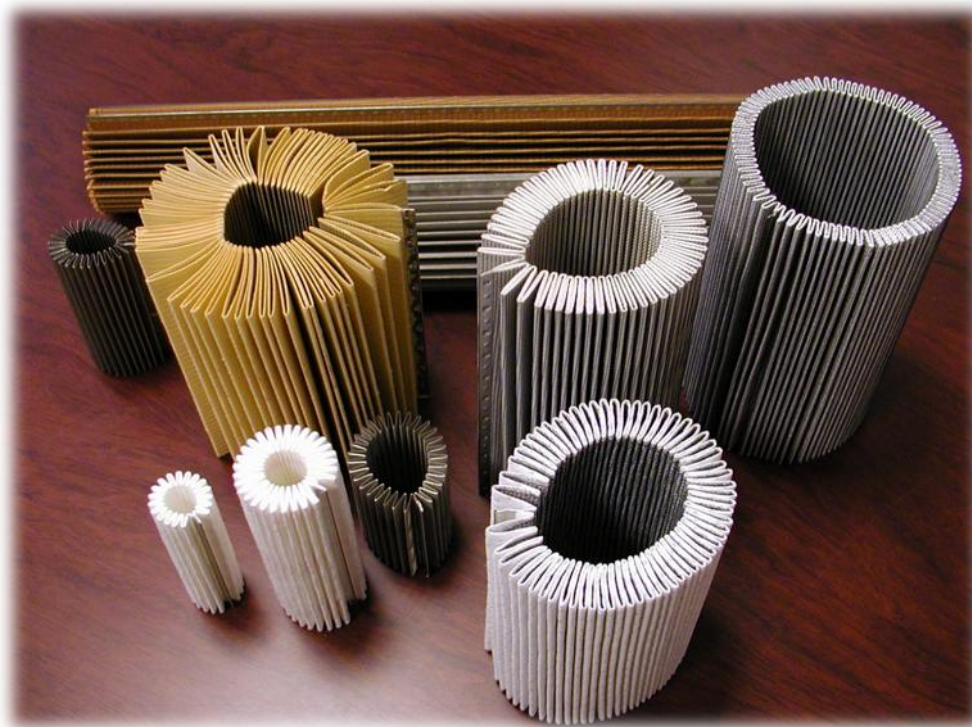
Semi-automatic clipping machine

This machine joins the first and last pleat edges of pleated media by clipping with a metal band.

The metal band, clipped on the filter by pressing and cutting, is stamped with elements that increase the effectiveness of the closure such as dimples or longitudinal grooves, at the customer's request.

This type of machine is above all ideal for clipping multi-layer filters in different materials, such as metal or plastic mesh and layers made from synthetic materials or paper.

The machine is equipped with an automatic system for inserting the filter in the clipping head composed of a pneumatic system with thrust lever.



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Semi-automatic clipping machine

Available models: AS/150, AS/250 , AS/300 , AS/400 , AS/600 , AS/700

Main technical characteristics:

- Max. production capacity: 20 pieces per minute (model AS/300 with filter length 100 mm) (it also depends on the operator's skill in feeding the piece to be clipped inside the feeding guides)
- Feeding of the piece to be processed: manual
- Discharge of the processed piece: automatic
- Filtering media; Minimum pleat length: 25 mm
- Filtering media; Maximum pleat length: 250; 300; 400; 500; 600; 700 mm (*)
- Filtering media; Minimum pleat height: 6; 8; 10; 12 mm (*)
- Filtering media; Maximum pleat height: 38; 52 mm (*)
- Metal band material: galvanised steel; stainless steel
- Metal band width: 10; 12; 12.7; 14; 16; 18; 20 mm (*)
- Metal band thickness: 0.2; 0.25; 0.3; 0.4; 0.6 mm (*)
- Pneumatic power supply: compressed air, 5-6 bar pressure
- Electric power supply: 230 V AC – 50 Hz (other voltages upon request) (*)
- Machine dimensions and weight (model AS/300):
 - Width: 950 mm
 - Length: 2200 mm
 - Height: 1850 mm
 - Weight: 560 kg

(*) = characteristics to be chosen before ordering the machine.

Main optional available equipment: see page 30



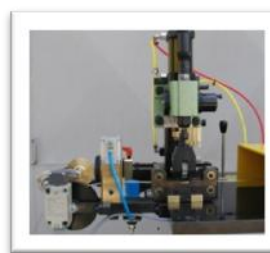
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VERTICALIZING EJECTOR



METAL BAND PUNCH



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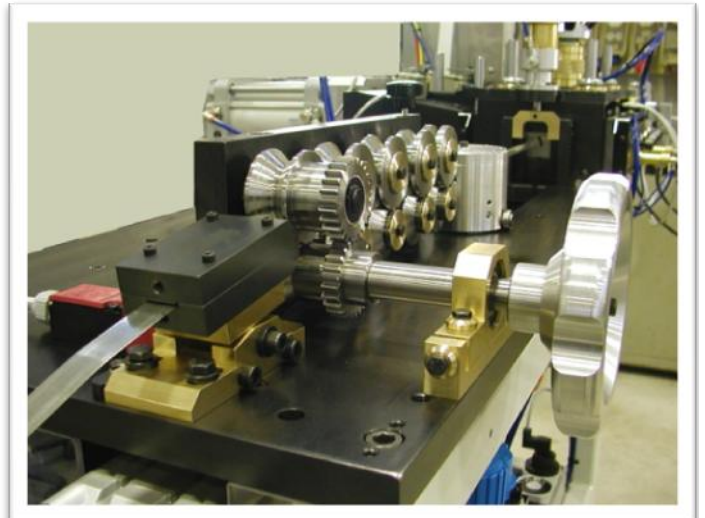
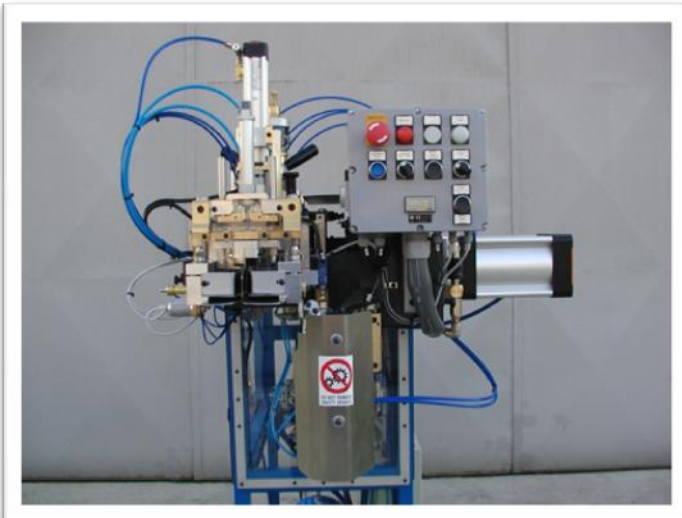
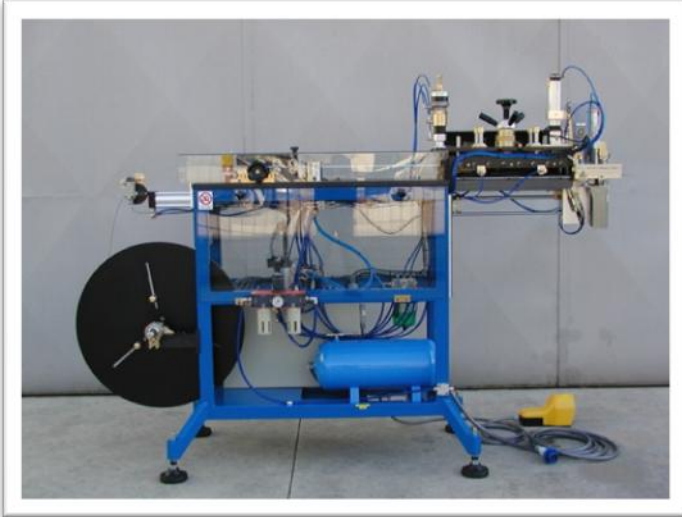
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Manual clipping machine

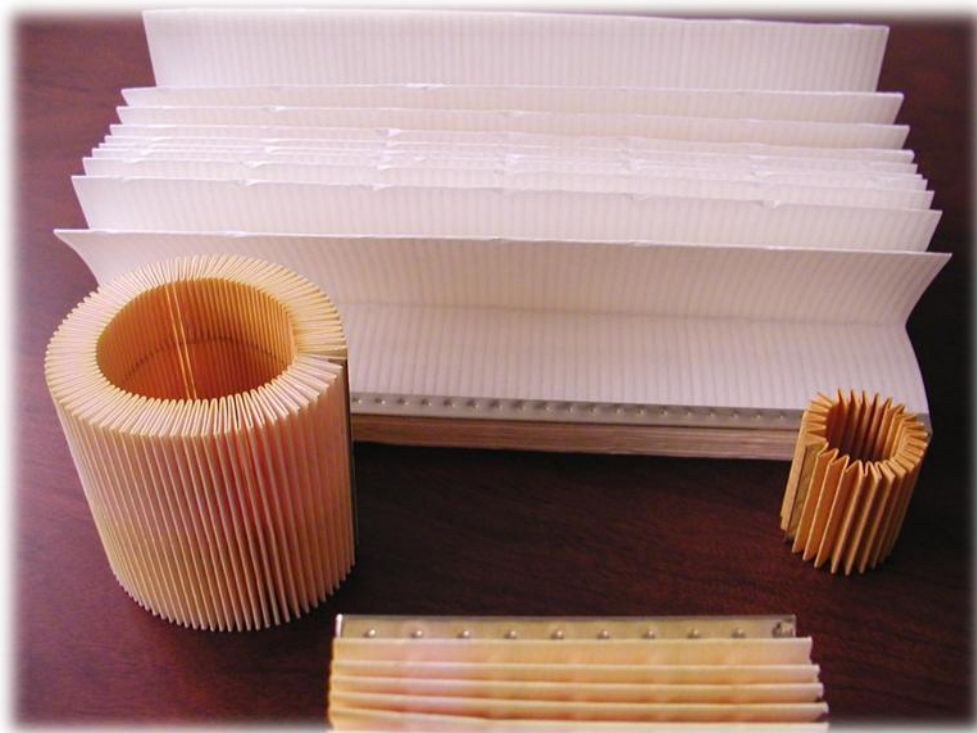
This machine joins the first and last pleat edges of pleated media by clipping with a metal band.

The metal band, clipped on the filter by pressing and cutting, is stamped with elements that increase the effectiveness of the closure such as dimples or longitudinal grooves, at the customer's request.

This type of machine is above all ideal for clipping filters made from paper.

The machine is not equipped with any kind of automatic system for inserting the paper.

It is a cost-effective alternative to the automatic Clipping machine where the production volumes are not so high in the case of filters of up to 450 mm in length.



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Manual clipping machine

Available models: AM/300 , AM/400 , AM/500 , AM/600 , AM/700 , AM/800

Main technical characteristics:

- Max. production capacity: 10 pieces per minute (model AM/300 with filter length 100-150 mm)
(it also depends on the operator's skill in feeding the piece to be clipped inside the feeding guides)
- Feeding of the piece to be processed: manual
- Discharge of the processed piece: automatic
- Filtering media; Minimum pleat length: 25 mm
- Filtering media; Maximum pleat length: 300; 400; 500; 600; 700; 800 mm (*)
- Filtering media; Minimum pleat height: mm 6; 8; 10; 12 (*)
- Filtering media; Maximum pleat height: mm 38; 52 (*)
- Metal band material: galvanised steel; stainless steel
- Metal band width: mm 10; 12; 12.7; 14; 16; 18; 20 (*)
- Metal band thickness: mm 0.2; 0.25; 0.3; 0.4; 0.6 (*)
- Pneumatic power supply: compressed air, 5-6 bar pressure
- Electric power supply: 230 V AC – 50 Hz (other voltages upon request) (*)
- Machine dimensions and weight (mod. AM/300):
 - Width: mm 800
 - Length: mm 1900
 - Height: mm 1800
 - Weight: kg 430

(*) = characteristics to be chosen before ordering the machine.

Main optional available equipment: see page 30



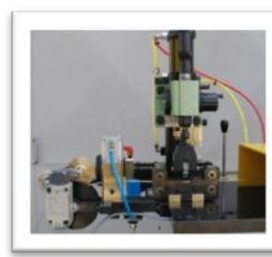
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VERTICALIZING EJECTOR



METAL BAND PUNCH



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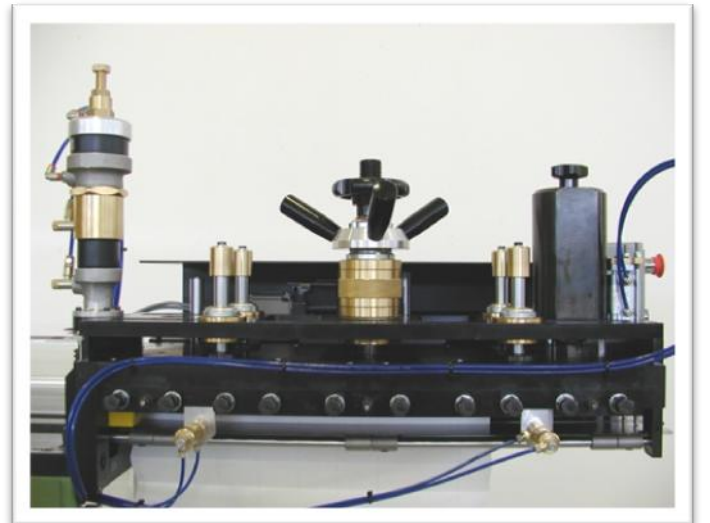
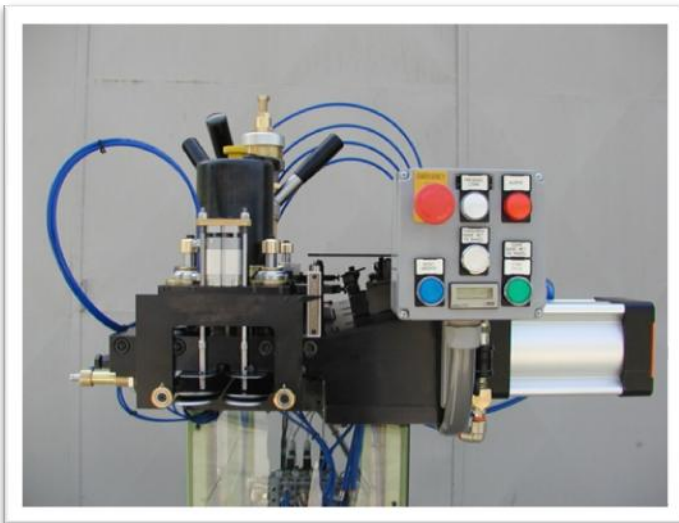
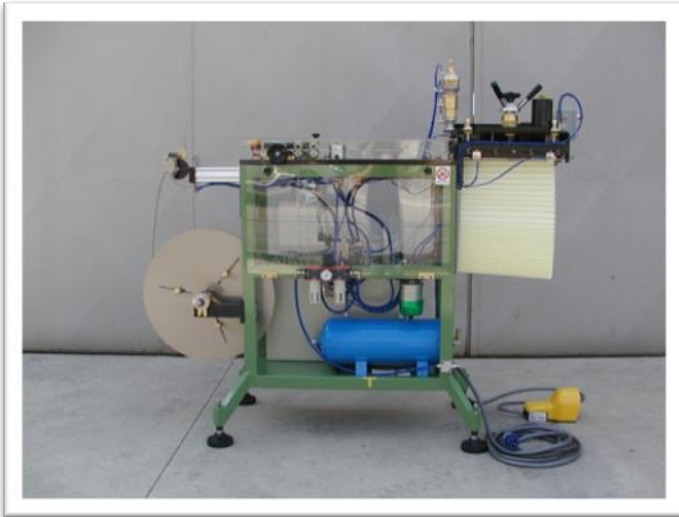
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Automatic clipping machine (compliant to CE standard)

This machine joins the first and last pleat edges of pleated media by clipping with a metal band.

The metal band, clipped on the filter by pressing and cutting, is stamped with elements that increase the effectiveness of the closure such as dimples or longitudinal grooves, at the customer's request.

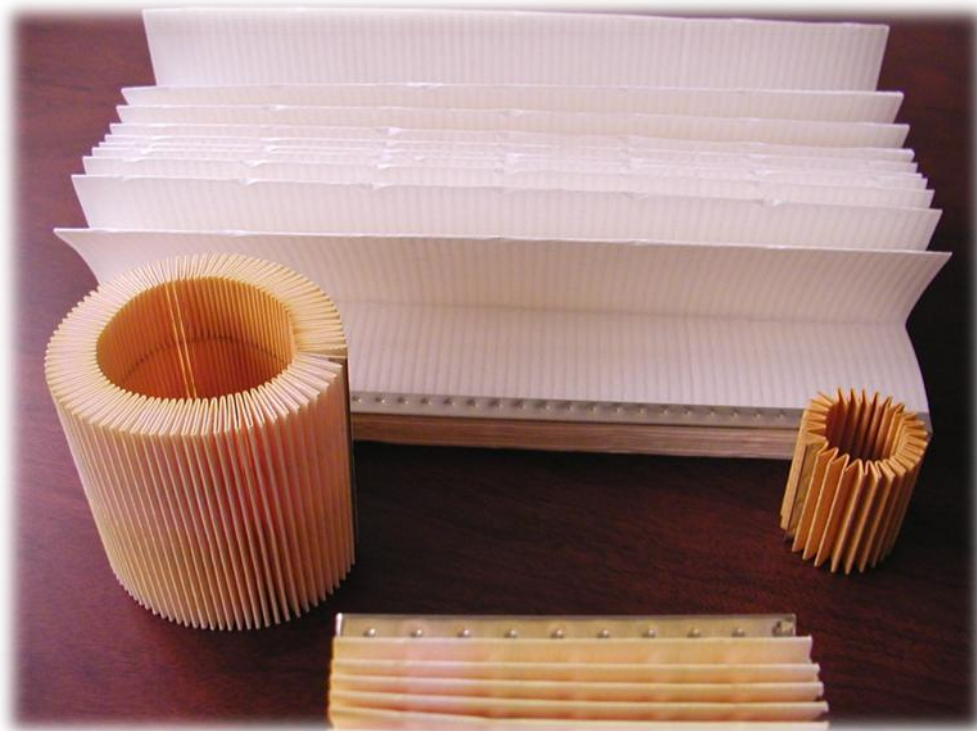
This type of machine is above all ideal for clipping filters made from paper.

The machine is equipped with an automatic motorized system for inserting the filter in the clipping head composed of an upper part (system with filter drive belts) and a lower part (pneumatic system with thrust lever).

The machine is equipped with an integral cover composed of a structure made of aluminium and transparent polycarbonate panels, totally openable, it is comprehensive of safety microswitches and an infrared-ray safety barrier in the area of insertion of the piece to process.

The machine is moreover equipped with a metal band decoiler of the side-loading type with self-centring jaws that allows the operator assigned to replacing the coil to move only the latter during the operation, thus being able to avoid having to lift heavy weights.

The safety requirements make it conform to directive 2006/42/EC.



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Automatic clipping machine (compliant to CE standard)

Available models: AA/150-CE , AA/250-CE , AA/350-CE , AA/450-CE , AA/600-CE

Main technical characteristics:

- Max. production capacity: 20 pieces per minute (model AA/350-CE with filter lg. 100-150 mm under processing)
(it also depends on the operator's skill in feeding the piece to be clipped inside the automatic loader)
- Feeding of the piece to be processed: manual
- Discharge of the processed piece: automatic
- Filtering media; Minimum pleat length: 25 mm
- Filtering media; Maximum pleat length: 150; 250; 350; 450 mm (*)
- Filtering media; Minimum pleat height: 6; 8; 10; 12 mm (*)
- Filtering media; Maximum pleat height: 38; 52 mm (*)
- Metal band material: galvanised steel; stainless steel
- Metal band width: 10; 12; 12.7; 14; 16 mm (*)
- Metal band thickness: 0.2; 0.25; 0.3; 0.4 mm (*)
- Pneumatic power supply: compressed air, 5-6 bar pressure
- Electric power supply: 230 V AC – 50 Hz (other voltages upon request) (*)
- Machine dimensions and weight (model AA/350-CE):
 - Width: 1060 mm
 - Length: 2200 mm
 - Height: 1850mm
 - Weight: 610 kg

(*) = characteristics to be chosen before ordering the machine.

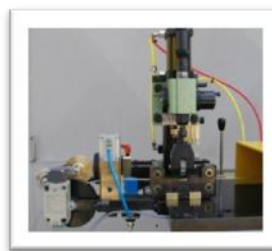
Main optional available equipment: see page 30



MOTORIZED
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VERTICALIZING EJECTOR



METAL BAND PUNCH



MOTORIZED DOUBLE DECOILER

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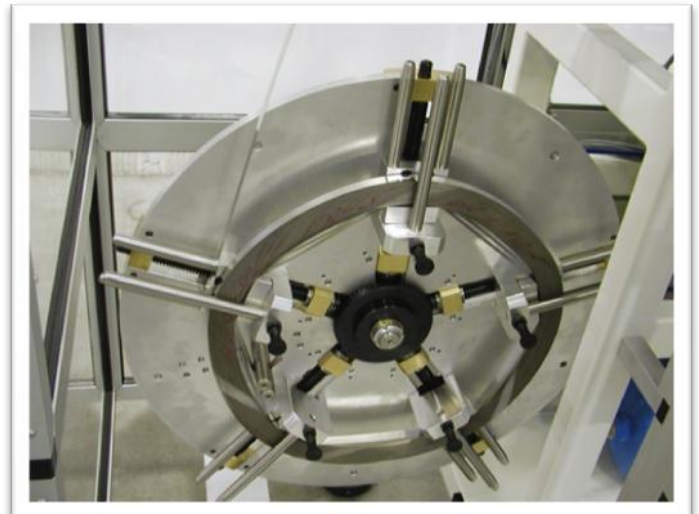
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Semi-automatic clipping machine (compliant to CE standard)

This machine joins the first and last pleat edges of pleated media by clipping with a metal band.

The metal band, clipped on the filter by pressing and cutting, is stamped with elements that increase the effectiveness of the closure such as dimples or longitudinal grooves, at the customer's request.

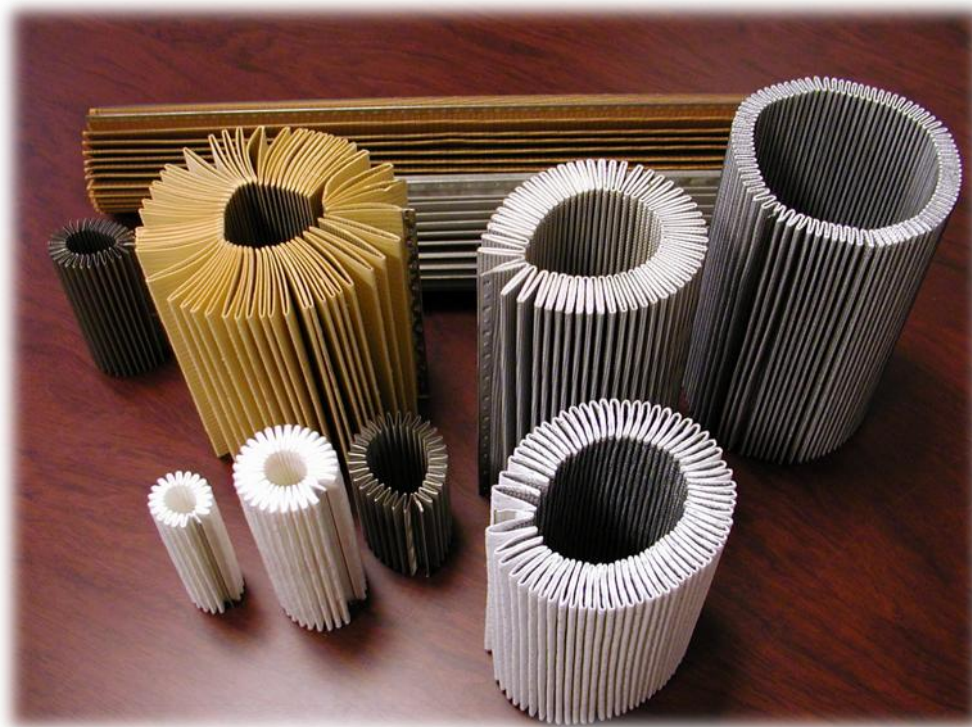
This type of machine is above all ideal for clipping multi-layer filters in several materials, such as metal or plastic wire and layers made from artificial materials or paper.

The machine is equipped with a motorized system for inserting the filter in the clipping head composed of a pneumatic system with thrust lever.

The machine is equipped with an integral cover formed by a structure made of aluminium and transparent polycarbonate panels, totally openable, it is comprehensive of safety microswitches and an infrared-ray safety barrier in the area of insertion of the piece to process.

The machine is moreover equipped with a metal band decoiler of electropneumatic type with self-centring jaws that allows the operator assigned to replacing the coil to move only the latter during the operation, thus being able to avoid having to lift heavy weights.

The safety requirements make it conform to directive 2006/42/EC.



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Semi-automatic clipping machine (compliant to CE standard)

Available models: AS/150-CE, AS/250-CE, AS/300-CE, AS/400-CE, AS/600-CE, AS/700-CE

Main technical characteristics:

- Max. production capacity: 20 pieces per minute (model AS/300 with filter lg. 100-150 mm under processing)
(it also depends on the operator's skill in feeding the piece to be clipped inside the feeding guides)
- Feeding of the piece to be processed: manual
- Discharge of the processed piece: automatic
- Filtering media; Minimum pleat length: 25 mm
- Filtering media; Maximum pleat length: 250; 300; 400; 500; 600; 700 mm (*)
- Filtering media; Minimum pleat height: 6; 8; 10; 12 mm (*)
- Filtering media; Maximum pleat height: 38; 52 mm (*)
- Metal band material: galvanised steel; stainless steel
- Metal band width: 10; 12; 12.7; 14; 16; 18; 20 mm (*)
- Metal band thickness: 0.2; 0.25; 0.3; 0.4; 0.6 mm (*)
- Pneumatic power supply: compressed air, 5-6 bar pressure
- Electric power supply: 230 V AC – 50 Hz (other voltages upon request) (*)
- Machine dimensions and weight (model AS/300):
 - Width: 1060 mm
 - Length: 2200 mm
 - Height: 1850 mm
 - Weight: 580kg

(*) = characteristics to be chosen before ordering the machine.

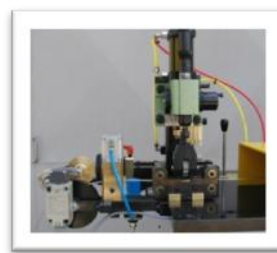
Main optional available equipment: see page 30



MOTORIZED LOWER LOADER



VERTICALIZING EJECTOR



METAL BAND PUNCH



MOTORIZED DOUBLE DECOILER

Macchine per l'industria del filtro

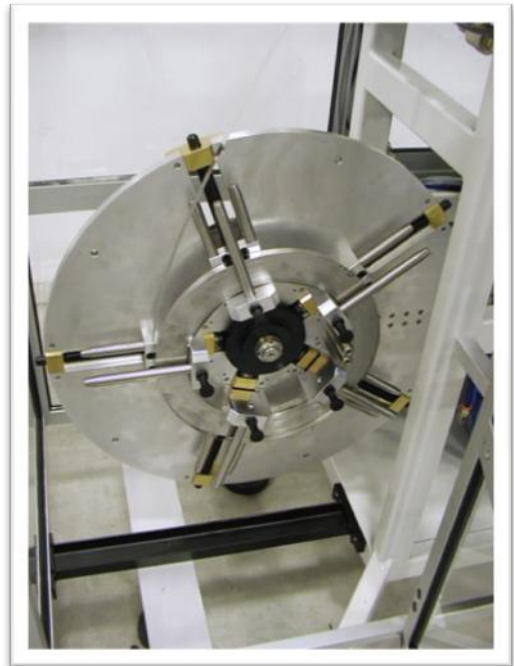
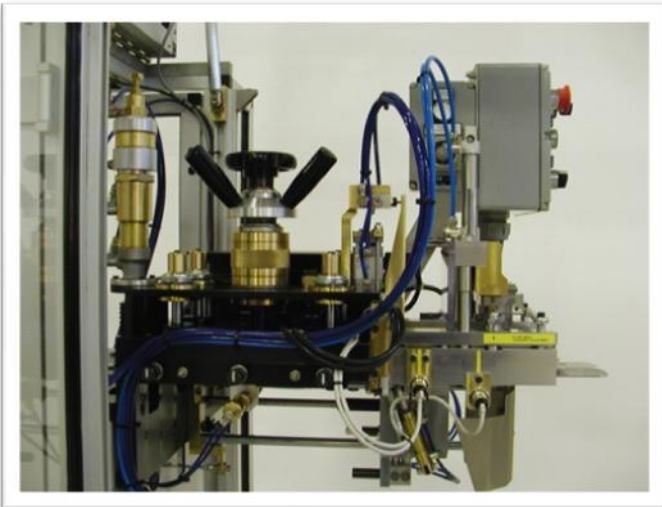
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Manual clipping machine (compliant to CE standard)

This machine joins the first and last pleat edges of pleated media by clipping with a metal band.

The metal band, clipped on the filter by pressing and cutting, is stamped with elements that increase the effectiveness of the closure such as dimples or longitudinal grooves, at the customer's request.

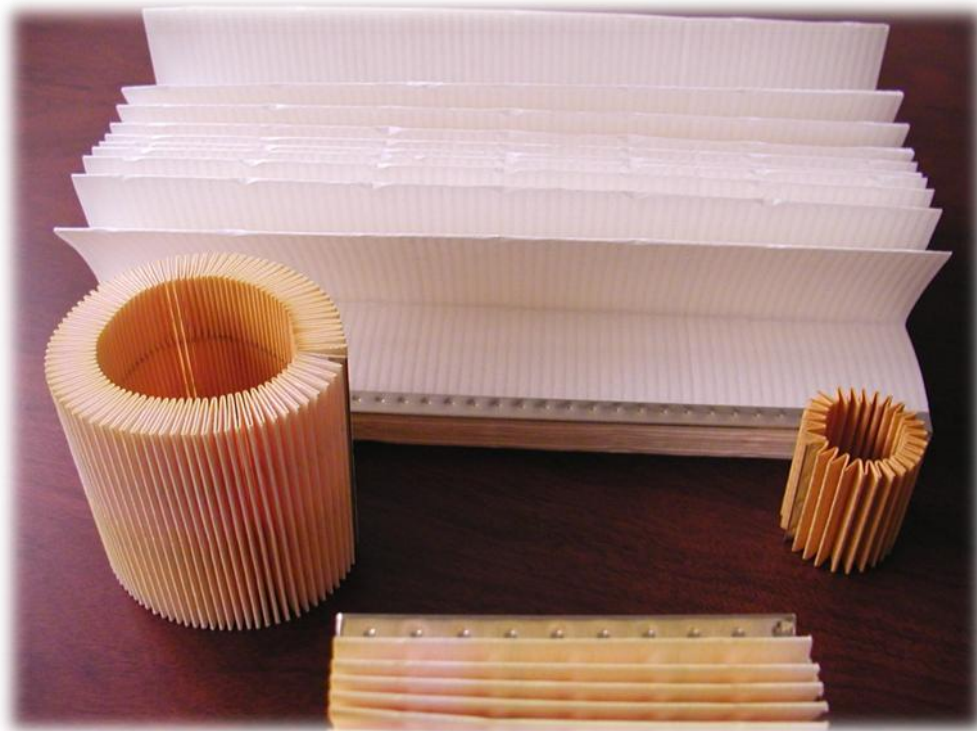
This type of machine is above all ideal for clipping filters made from paper.

The machine is equipped with an automatic system for inserting the filter in the clipping head composed of a pneumatic system with thrust lever.

The machine is equipped with an integral cover formed by a structure made of aluminium and transparent polycarbonate panels, totally openable, it is comprehensive of safety microswitches and an infrared-ray safety barrier in the area of insertion of the piece to process.

The machine is moreover equipped with a metal band decoiler of electropneumatic type with self-centring jaws that allows the operator assigned to replacing the coil to move only the latter during the operation, thus being able to avoid having to lift heavy weights.

The safety requirements make it conform to directive 2006/42/EC.



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Manual clipping machine (compliant to CE standard)

Available models: AM/300-CE , AM/400-CE , AM/500-CE , AM/600-CE , AM/700-CE , AM/800-CE

Main technical characteristics:

- Max. production capacity: 10 pieces per minute (model AM/300 with filter lg. 100-150 mm under processing)
(it also depends on the operator's skill in feeding the piece to be clipped inside the feeding guides)
- Feeding of the piece to be processed: manual
- Discharge of the processed piece: automatic
- Filtering media; Minimum pleat length: 25 mm
- Filtering media; Maximum pleat length: 300; 400; 500; 600; 700; 800 mm (*)
- Filtering media; Minimum pleat height: 6; 8; 10; 12 mm (*)
- Filtering media; Maximum pleat height: 38; 52 mm (*)
- Metal band material: galvanised steel; stainless steel
- Metal band width: 10; 12; 12.7; 14; 16; 18; 20 mm (*)
- Metal band thickness: 0.2; 0.25; 0.3; 0.4; 0.6 mm (*)
- Pneumatic power supply: compressed air, 5-6 bar pressure
- Electric power supply: 230 V AC – 50 Hz (other voltages upon request) (*)
- Machine dimensions and weight (model AM/300):
 - Width: 1060 mm
 - Length: 2000 mm
 - Height: 1850 mm
 - Weight: 540 kg

(*) = characteristics to be chosen before ordering the machine.

Main optional available accessories: see page 30



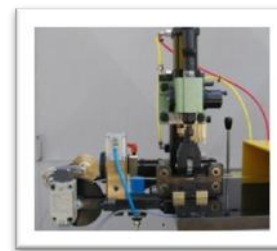
PNEUMATIC LOWER LOADER



SIDE LOADING
DECOILER



VERTICALIZING EJECTOR



METAL BAND PUNCH



MOTORIZED DOUBLE
DECOILER

Macchine per l'industria del filtro

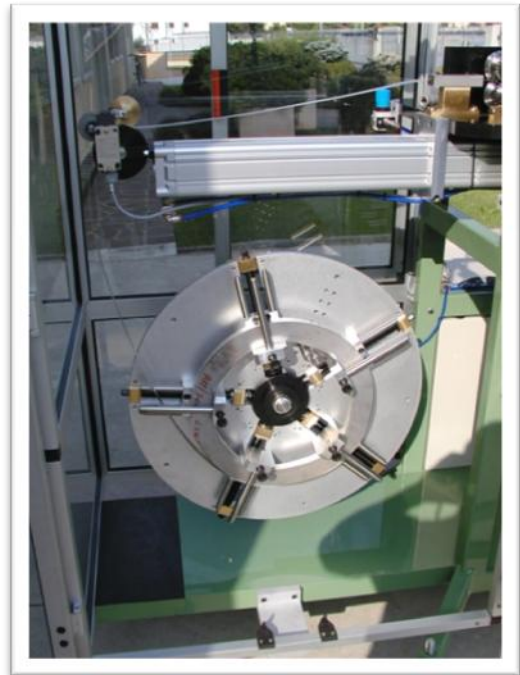
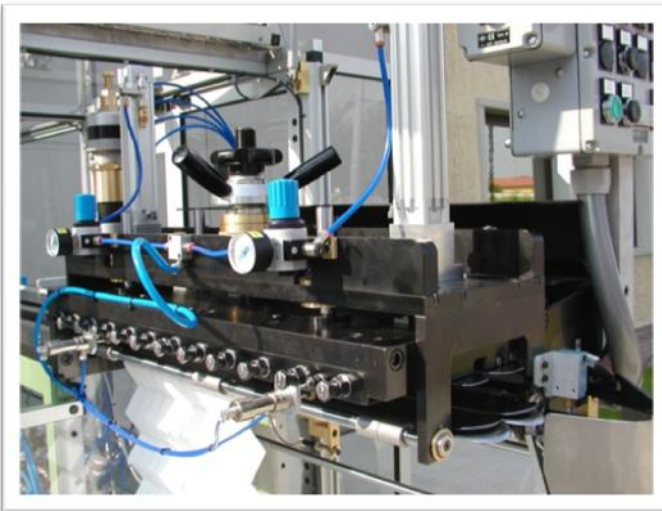
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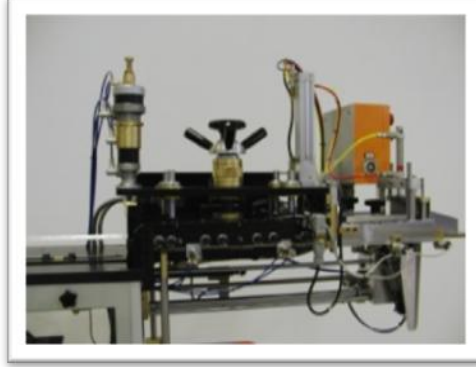
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Main optional equipment:



MOTORIZED TRIMMING DIE



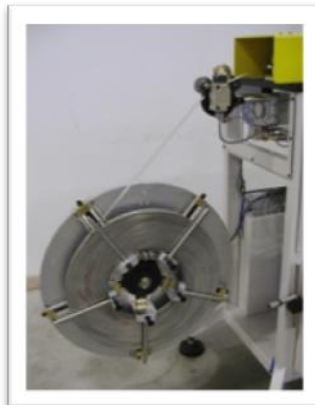
MOTORIZED LOWER LOADER



PNEUMATIC LOWER LOADER



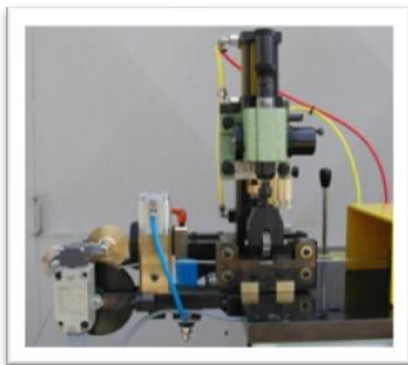
VERTICALIZING EJECTOR



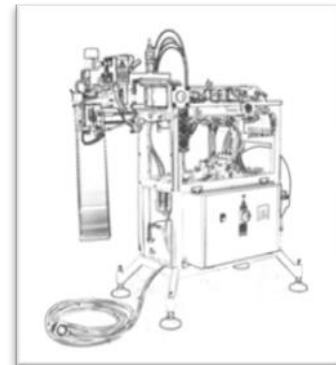
SIDE LOADING DECOILER



MOTORIZED DOUBLE DECOILER



METAL BAND PUNCH



SPECIAL ACCESSORIES ON CUSTOMER'S SPECIFICATIONS

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Motorized Trimming Die

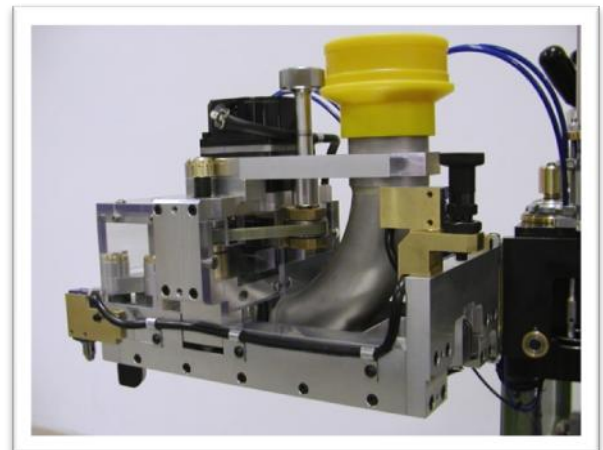
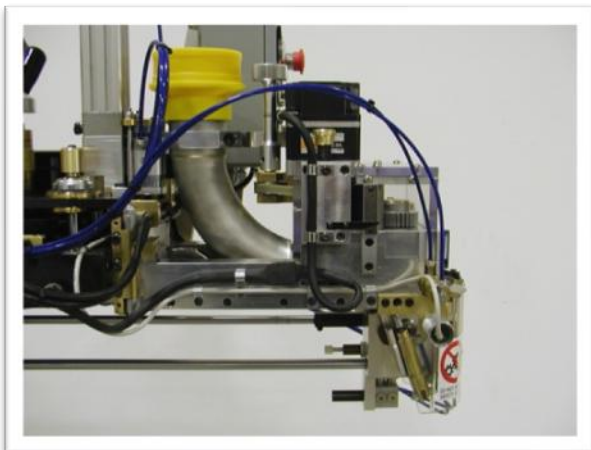
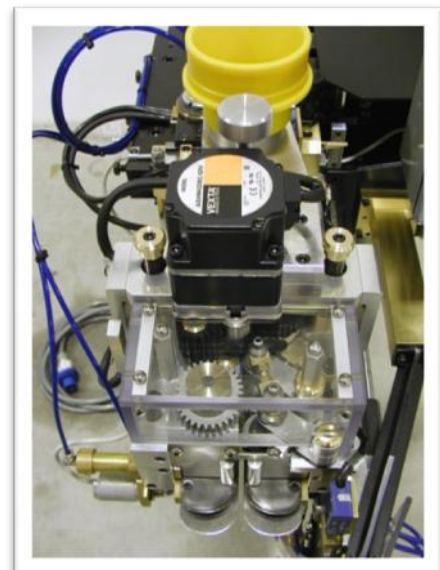
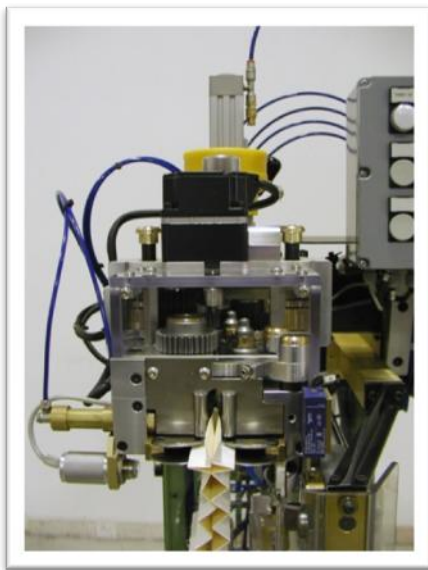
This accessory allows cutting a portion of the first and last pleat of the media to clip automatically, while drawing the filter, it also acts as an automatic loader for inserting the filter.

The height of the scraps to cut off is adjustable, it is also possible to choose whether to use the cutting function or not.

The filter driving speed, and therefore the speed of rotation of the cutting knives, is adjustable on the operator panel.

The scraps are removed by suction.

If the place where the machine is installed is not equipped with a suitable suction system, it is possible to equip the machine with an independent scrap suction and storage system that is formed by a transparent container connected on one side to the trimming die via a pipe and on the other side to a silenced and filtered extraction fan with side channels.



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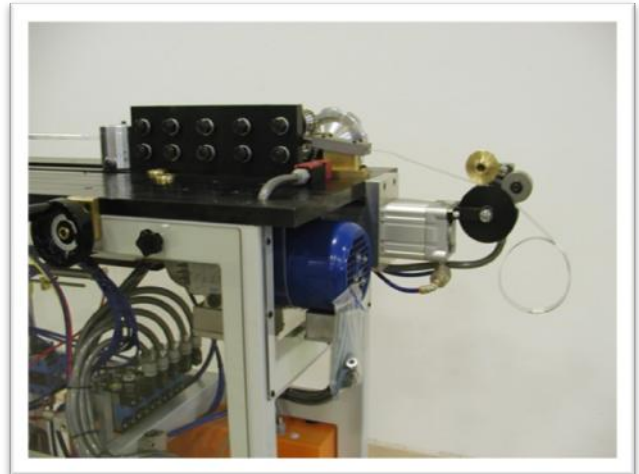
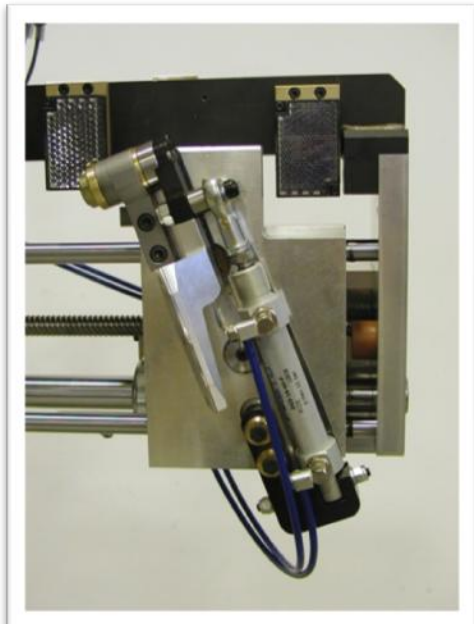
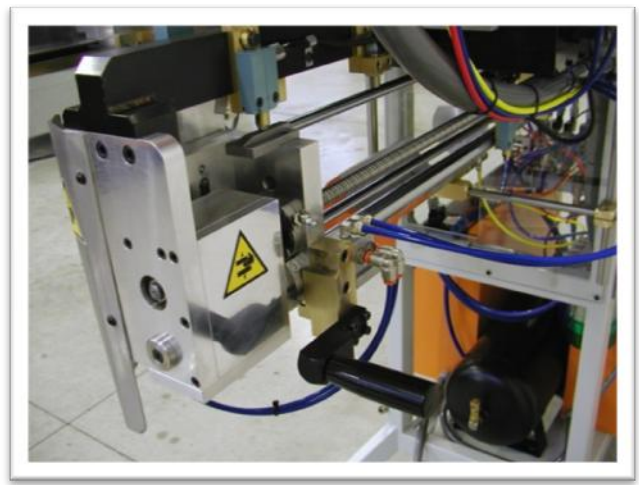
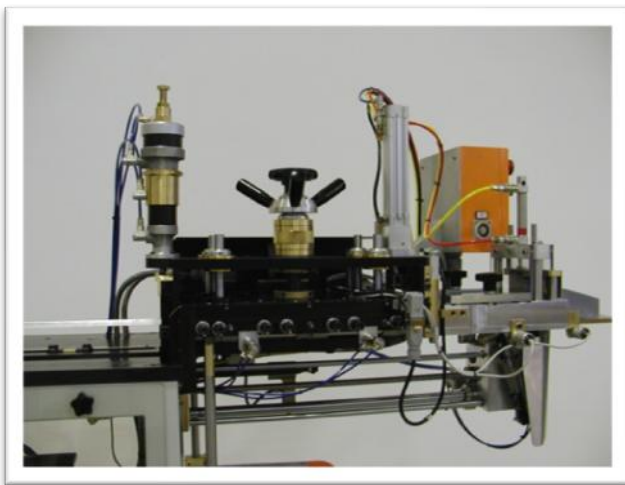
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Motorized lower loader

System pushing the filter toward the inside of the clipping head. It is formed by a pneumatic lever fitted on a carriage moved by a ball circulation lead nut and screw system governed by an electric motor whose speed is controlled electronically. It is used above all for machines built for processing filters made of fragile material as it allows pushing the filter into the clipping head without damaging it.



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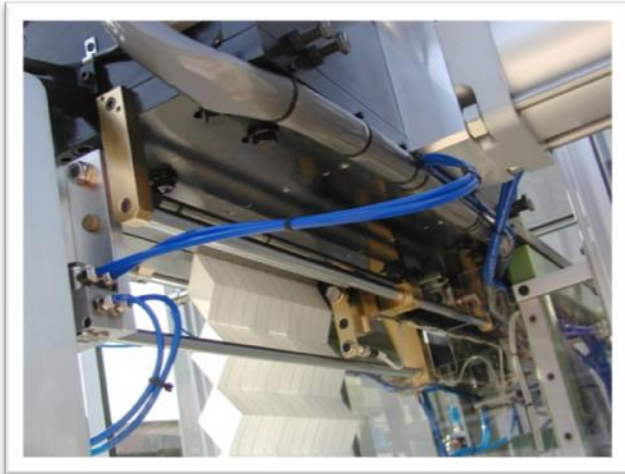
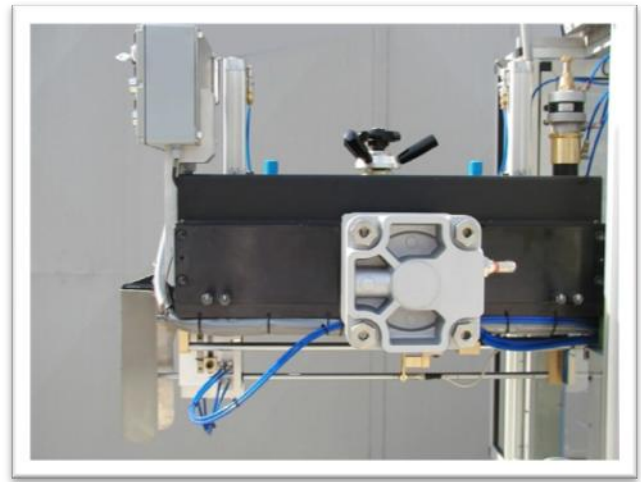
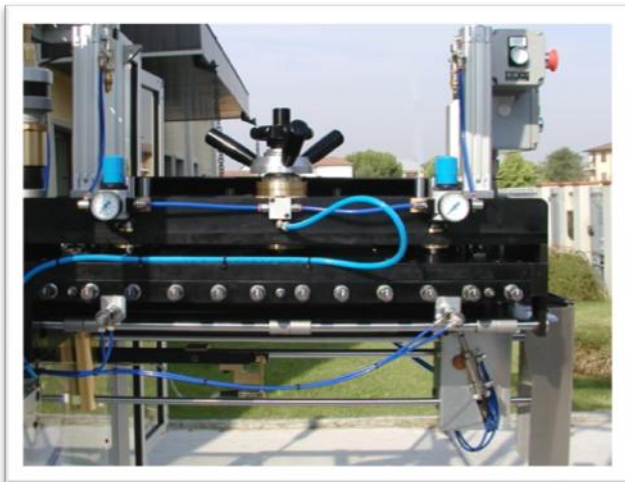
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Pneumatic lower loader

System pushing the filter toward the inside of the clipping head. It is formed by a pneumatic lever fitted on a carriage driven by a pneumatic system that allows the operator to avoid having to push the filter manually up to the end of the clipping head (particularly awkward operation when short filters are processed with machines built for being able to make long filters too).

The device is available only for models from AM/500 to AM/800.



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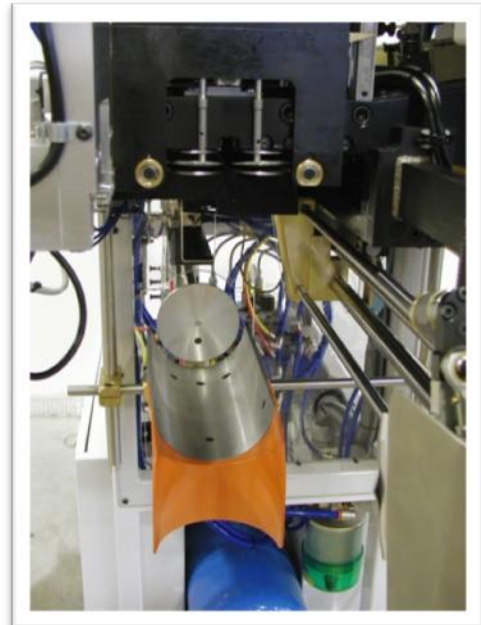
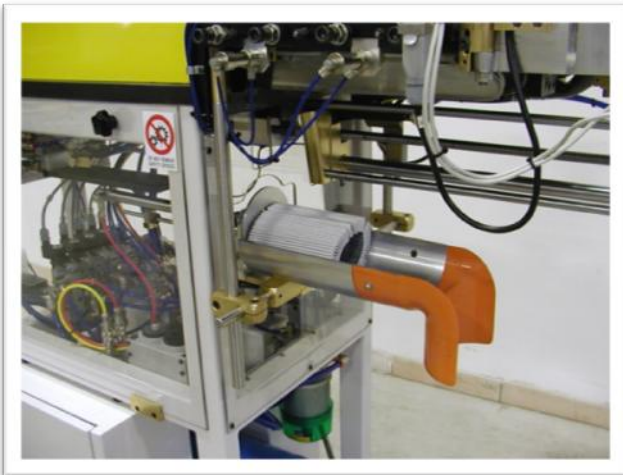
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Verticalizing Ejector

A pneumatic device that allows positioning the filter vertically during expulsion from the machine, for instance onto a conveyor belt. Its position can be adjusted both vertically and lengthways.

If you need to process filters with a high number of pleats, therefore with a great vertical length, it is possible to remove it from the machine easily and quickly.



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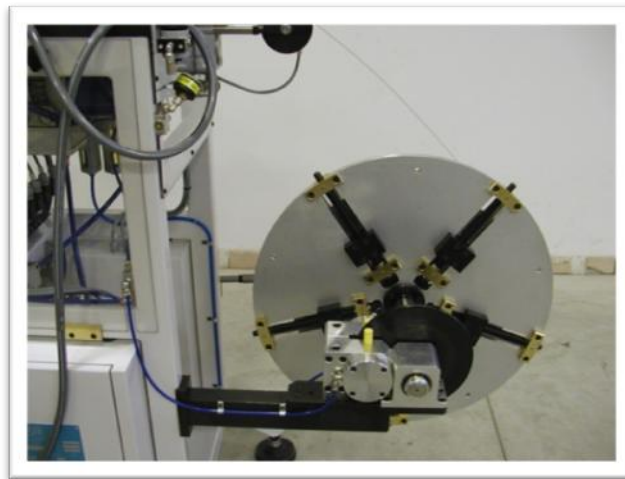
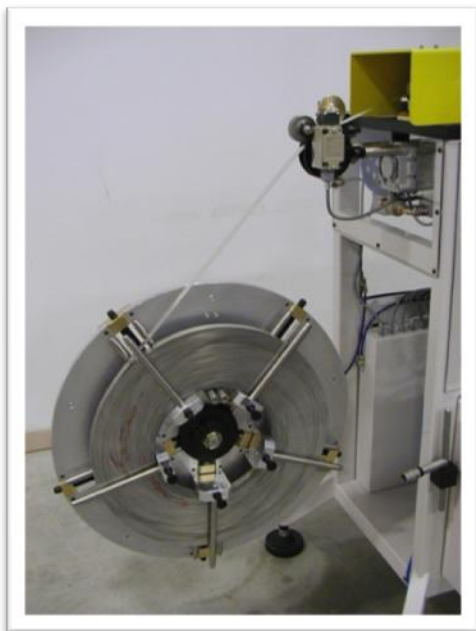
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Side loading decoiler

It is formed by a disk on which 5 self-centring and simply-adjustable support jaws are fitted. Compared to a conventional decoiler, changing the metal band is much faster and less troublesome when the coil finishes since it is not necessary to remove and reassemble the whole unit on the machine, but it is only necessary to insert the new coil and adjust the inside diameter, given by the position of the jaws, with the key provided. Simply act on one of the jaws to open or close them all at the same time. In addition, it is equipped with an adjustable pneumatic brake/disc clutch system to manage the force of inertia during the manufacturing cycle.



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Motorized double decoiler

This system allows being able to fit a new coil onto a side loading decoiler with self-centring jaws, with similar characteristics to the one previously described, before the one being used is finished. The decoiler to be loaded is totally accessible for the operator also during the automatic cycle since it is not moving, while the one in operation, driven by an electric motor with the function of brake/clutch is totally enclosed in a structure made of aluminium and transparent polycarbonate panels. When the coil finishes it is enough to rotate the two decoilers by 180° to be ready to restart work.



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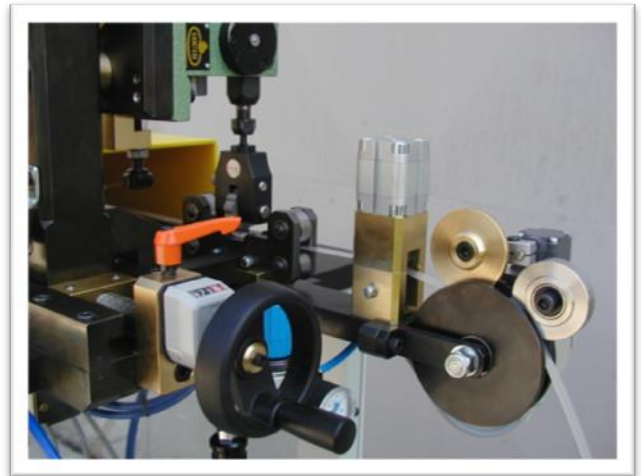
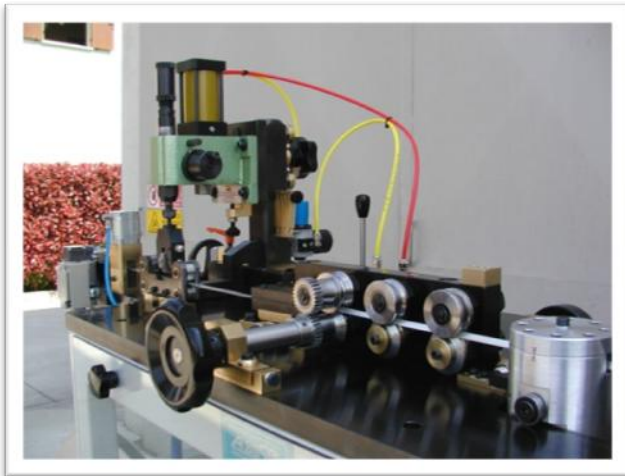
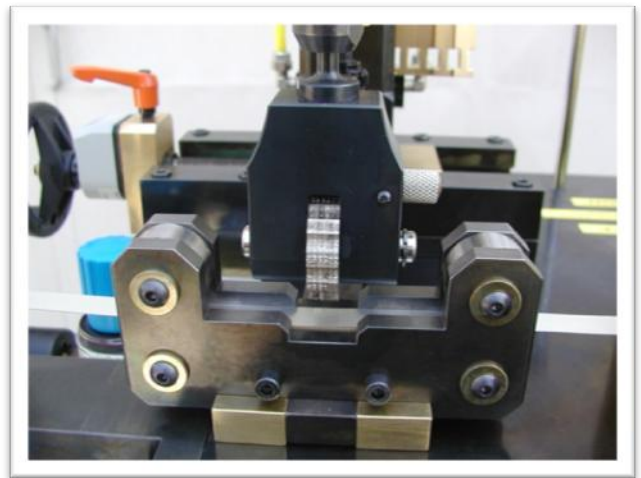
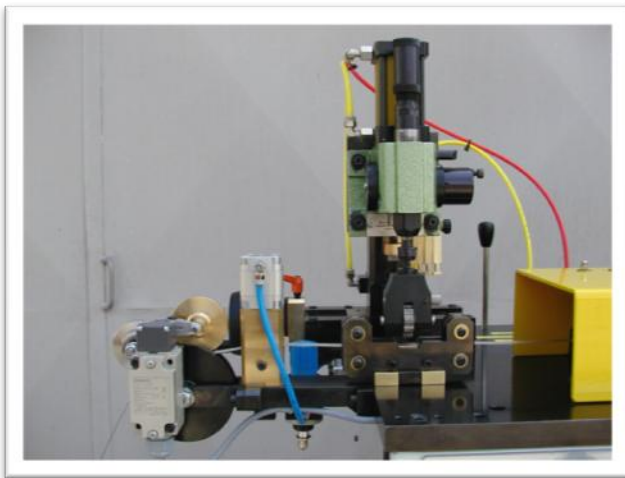
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Metal band punch

A metal band punching system to be able to automatically write (inscribe) alphanumeric data, which can for instance be dates, batch numbers, codes, names, etc., on it and therefore on the clipped filter. It is equipped with a millimetric setting slide system to be able to centre the printing position.



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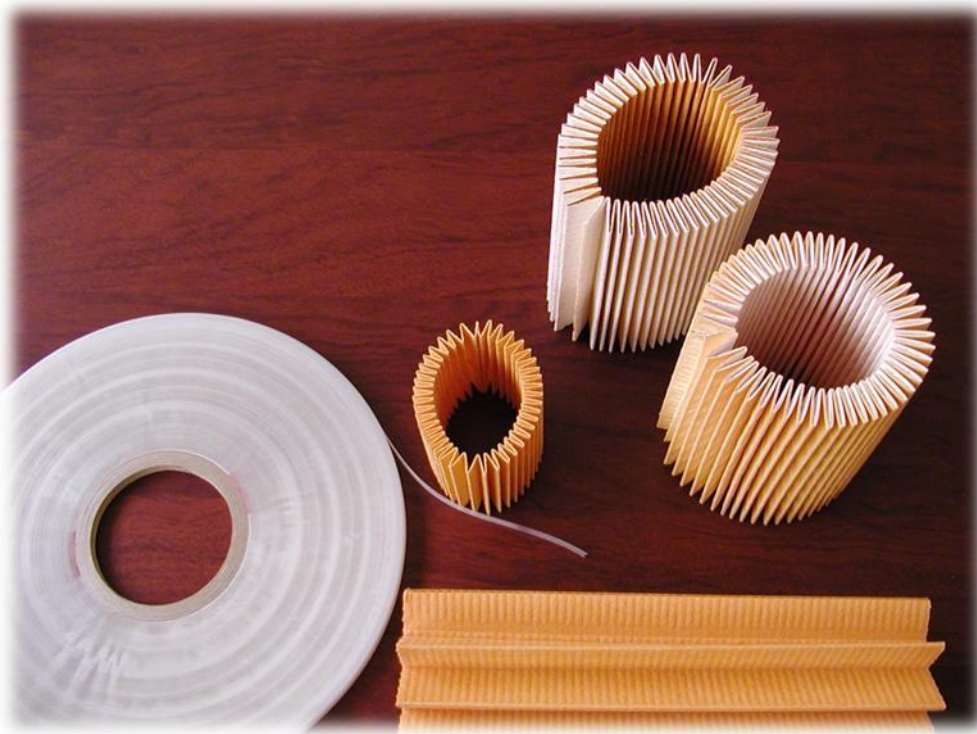
Automatic ultrasonic edge welding machine mod. GLA/400-CE

This machine has been conceived and built for belonging to the production process of the latest generation of incineratable **green filters**, entirely without any metal. The machine joins the first and last edge of media made of paper or synthetic material by inserting inside the two edges a plastic hot-melt (Co-Polyamide) band of a thickness of 0.1 mm that, via ultrasonic vibration and pressure, melts allowing perfect and clean adhesion of the two edges. If the material of the filter is already ultrasonically weldable, the function of inserting the band can be turned off with the operator panel.

The machine is very fast, being able to reach a production rate of up to 25 pcs/min, and it has all the advantages compared to conventional gluing machines.

The machine can be equipped with an automatic system for trimming the welded edges with the related waste recovery system that is used to have the pleats welded lower than the others.

It is totally safe since it is closed by transparent polycarbonate panels with an aluminium structure interfaced with safety microswitches, besides which the filter insertion zone is guarded by an infrared-ray safety barrier. The safety requirements make it conform to directive 2006/42/EC.



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Automatic ultrasonic edge welding machine type GLA/400-CE

Main technical characteristics:

- Max. production capacity: 25 pieces per minute (with filter lg. 100 mm under processing)
(it also depends on the operator's skill in feeding the piece to be clipped inside the automatic loader)
- Changeover time: less than 5 minutes
- Feeding of the pieces to be processed: manual
- Discharge of the processed pieces: automatic
- Filtering media; Minimum pleat length: 25 mm
- Filtering media; Maximum pleat length: 410 mm
- Filtering media; Minimum pleat height: 8 mm
- Filtering media; Maximum pleat height: 40 mm
- Hot-melt band material: Co-Polyamide
- Hot-melt band width: 9 mm
- Hot-melt band thickness: 0.1 mm
- Pneumatic power supply: compressed air, 5-6 bar pressure
- Electric power supply: 400 V AC – 50 Hz (other voltages upon request)
- Installed power: 6000 W
- Absorbed current: 25 A
- Machine dimensions and weight (approx):
 - Width: 1800 mm
 - Length: 2900 mm
 - Height: 2200 mm
 - Weight: 1850 kg

Macchine per l'industria del filtro

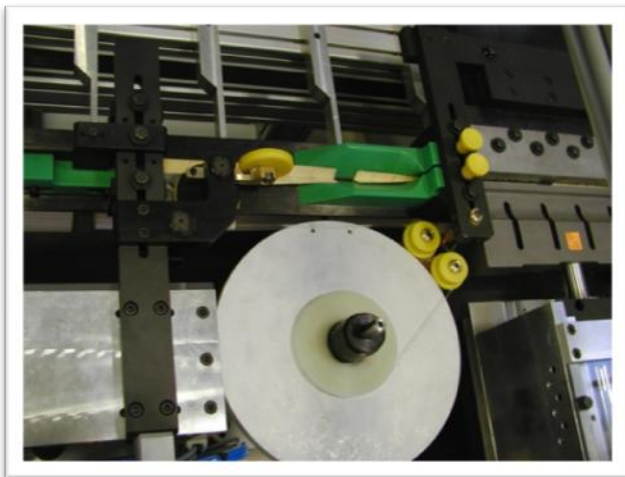
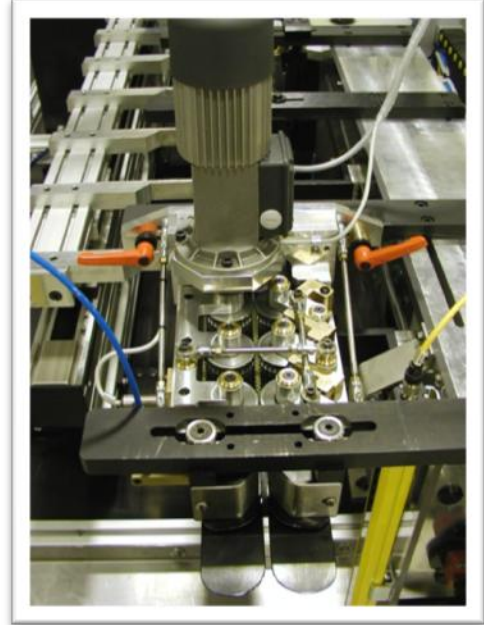
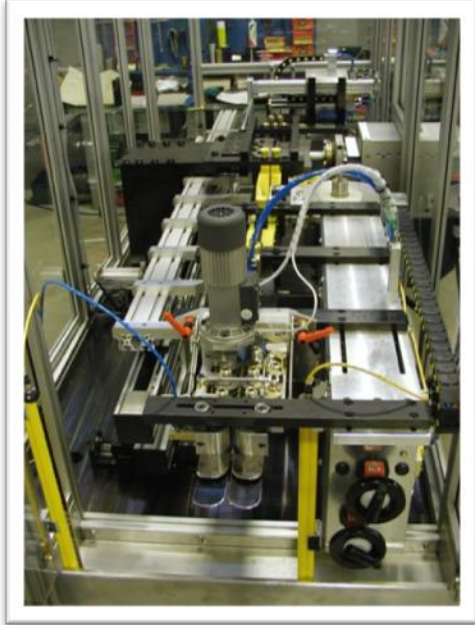
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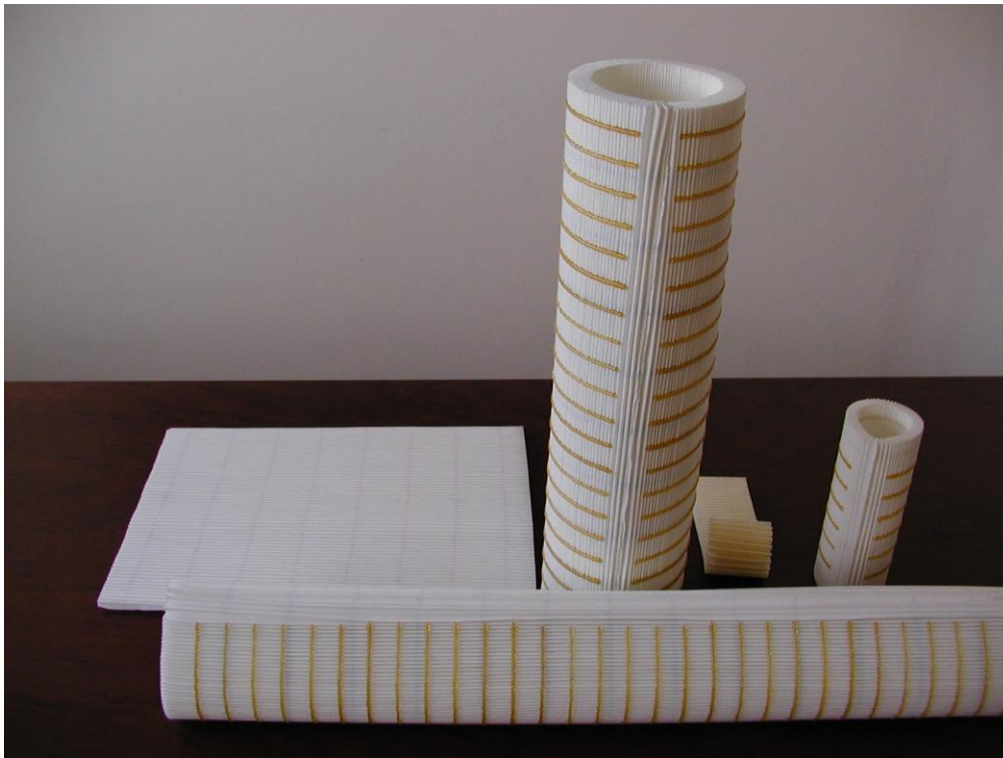
Ultrasonic edge welding machine mod. GLM/1050-CE

This machine has been conceived and built for belonging to the production process of the latest generation of incineratable **green filters**, containing synthetic material, entirely without any metal. The machine joins the first and last edge of a synthetic multi-layer media pack via ultrasonic welding and pressure without using any other material or glue.

The machine has all the advantages compared to the conventional gluing machines.

An example of the materials forming the filter: layer of PA mesh, layer of non-woven PE fabric, fibreglass, layer of PE fabric, layer of PA mesh.

The machine is equipped with a system for extracting and recovering the welding fumes and the residual welding dust formed by a pneumatic system that creates a vacuum and conveys what it has extracted through flexible hoses into an openable transparent container equipped with a filter. It is totally safe since it is closed by transparent polycarbonate panels with an aluminium structure interfaced with safety microswitches, besides which the filter insertion zone is guarded by an infrared-ray safety barrier. The safety requirements make it conform to directive 2006/42/EC.



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Main technical characteristics:

- Max. production capacity: 10 pieces per minute (with filter lg. 100 mm under processing)
(it also depends on the operator's skill in feeding the piece to be clipped inside the supporting guides)
- Feeding of the piece to be processed: manual
- Discharge of the processed piece: manual
- Filtering media; Minimum pleat length: 50 mm
- Filtering media; Maximum pleat length: 1050 mm
- Filtering media; Minimum pleat height: 8 mm
- Filtering media; Maximum pleat height: 50 mm
- Pneumatic power supply: compressed air, 5-6 bar pressure
- Electric power supply: 400 V AC – 50 Hz (other voltages upon request)
- Installed power: 5000 W
- Absorbed current: 25 A
- Machine dimensions and weight:
 - Width: 1600 mm
 - Length: 1600 mm
 - Height: 2050 mm
 - Weight: 1610 kg

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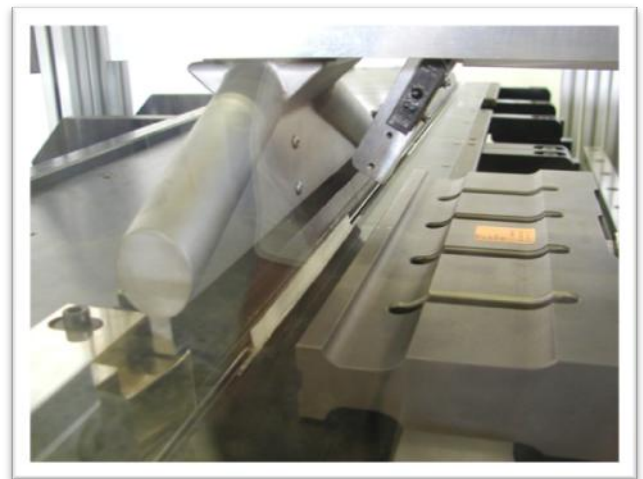
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Bubble-point test bench mod. BPT/DL-CE

Test bench for carrying out the bubble-point test. It can be used to determine the first bubble point according to the specification of the ISO 2942 standard or to determine the physical integrity of a filter checking there is no bubble at a certain pressure. It is moreover equipped with a station for testing the stretched filtering material (cut into disks of diameter 78 mm). The up and down movements of the filter to be tested in the immersion tank are governed by a pneumatic system and they are only possible with the guards closed. It can be equipped with a system to recover the test liquid (usually isopropyl alcohol) composed of an airtight stainless steel reservoir, an anti-explosive pneumatic pump (ATEX certified) and valves and pipes for conveying the liquid from the reservoir into the test tank and vice versa. It can moreover be supplied with a vapour extraction system to ATEX standards. It is built according to the dimensions and the types of the filters stated on the order and is supplied with analogical instrumentation with measurement characteristics as requested by the customer. In addition, it is equipped with the various interfaces to be able to secure the filters during the test.

The safety requirements make it conform to directive 2006/42/EC.



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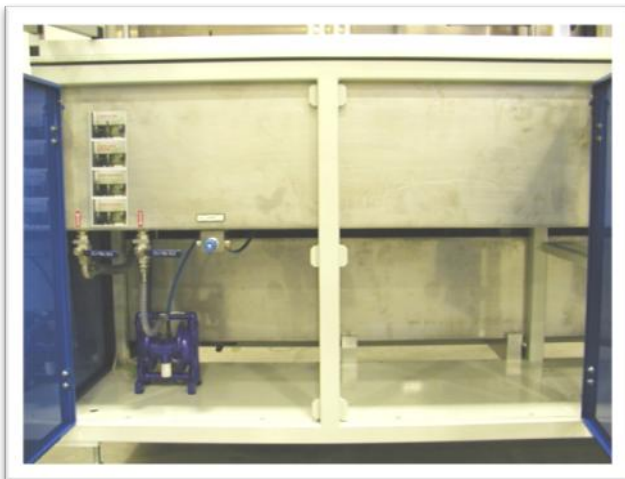
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Optional equipment



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Burst Test Bench mod. BPS/D-CE

Test bench made to test a filter determining what maximum pressure of the fluid inside it (oil) it can withstand (burst test). It can also be used for verifying the resistance of the filter at a certain pressure for a certain time (resistance test).

It is equipped with class 1 analogical pressure gauges for managing the test process and an electronic pressure gauge for saving the data with output for a computer. It is totally closed to avoid contact with the operator during the test and it is equipped with a transparent plastic bell to avoid fouling the bench when the filter bursts. At the end of the test, the oil is recovered by a closed system and returned to the hydraulic power pack. On the top there is a hood for extracting any oily mist. As an option a double test station can be built for testing two filters at the same time even with different morphological characteristics, for instance screw filters and quick-coupler filters. It is equipped with the various interfaces to be able to secure the filters during the test.

The safety requirements make it conform to directive 2006/42/EC.



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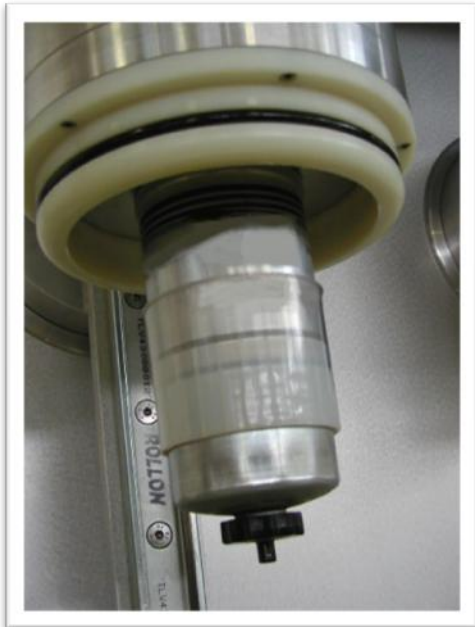
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Porosimeter Test Bench mod. BPP/CE

Laboratory test bench to determine / verify the porosity value of the filtering materials by measuring the drop in pressure of the fluid (air) at a constant flow rate passing through a circularly cut test piece.

The test-pieces can be of various sections (for example 25-50-100 cm²).

The safety requirements make it conform to directive 2006/42/EC.



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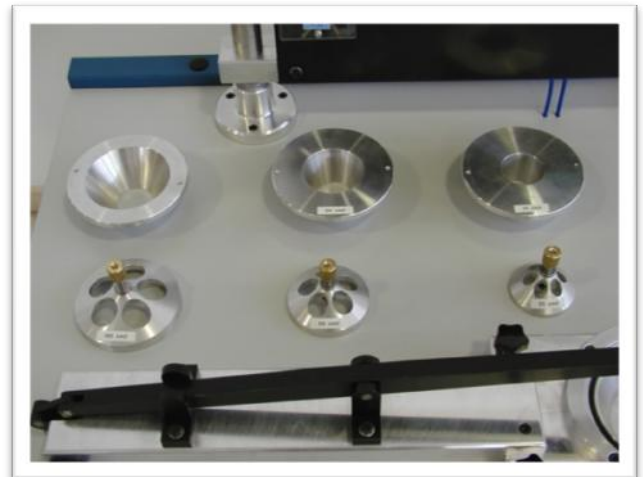
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Valve seal test bench mod. V/AS-CE

Laboratory test bench for checking the seal of the oil filter anti-emptying and anti-drainage valves.

The safety requirements make it conform to directive 2006/42/EC.



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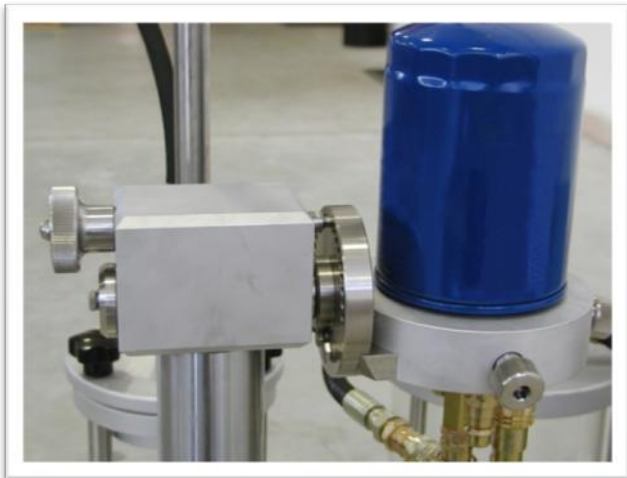
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Plate welding machine with two heads mod. ISAS-2T

This fully automatic machine, with a high production rate, is used to weld together the two elements that compose the plate of a filter. It is moreover equipped with two stations for dispensing the glue that acts as a liquid seal.

To accomplish high productivity the pieces are worked two at a time.

The elements to be assembled are automatically inserted by two regulated conveyor belts and the ones already welded are discharged by a discharging conveyor belt.

The machine needs no operator during the automatic manufacturing cycle.

It is totally safe as it is closed by openable transparent polycarbonate panels with an aluminium structure interfaced with safety microswitches. The safety requirements make it conform to directive 2006/42/EC.



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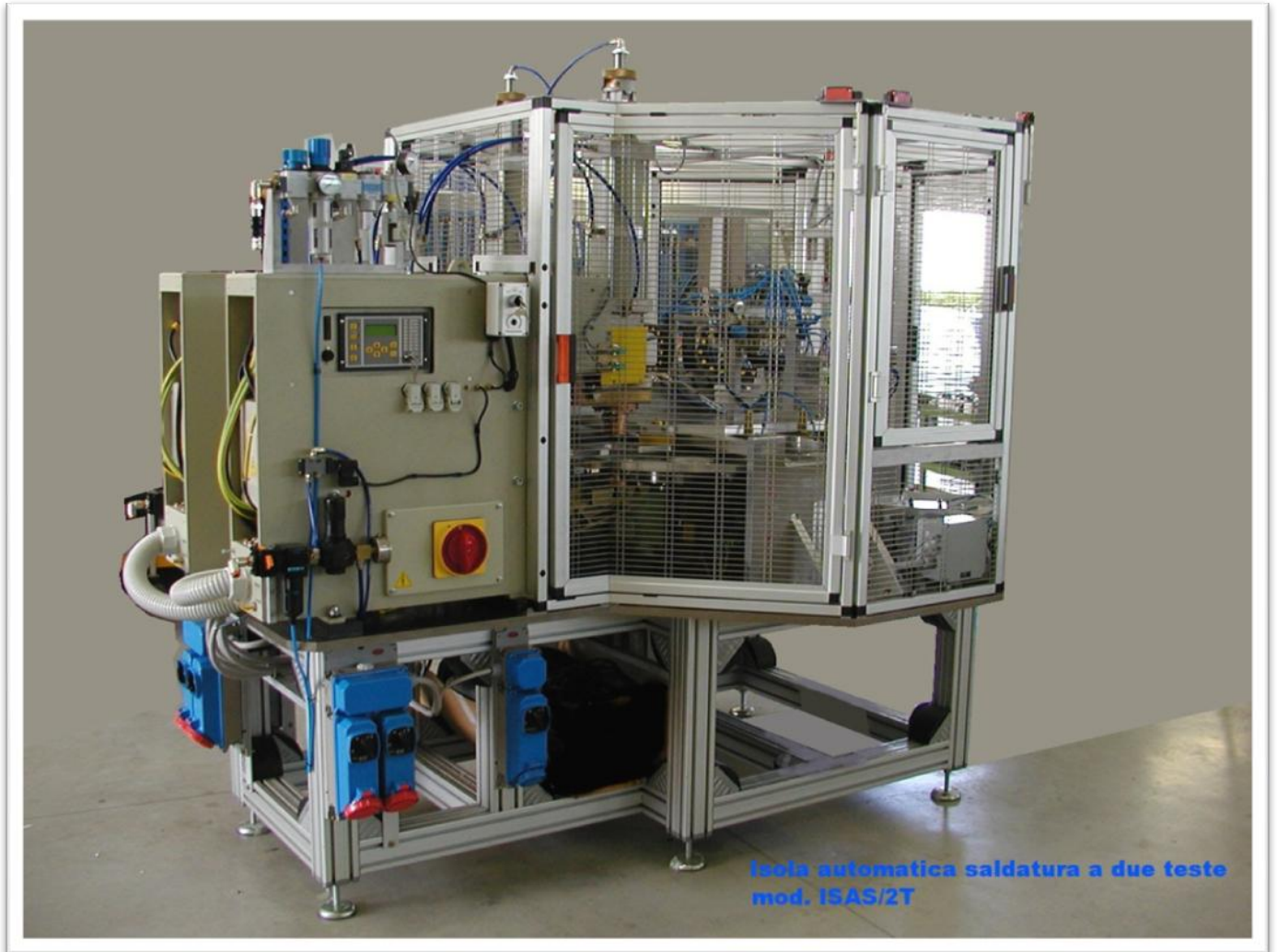
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Main technical characteristics:

- Max. production capacity: 2500 pcs/hour
- Pneumatic power supply: compressed air, 5-6 bar pressure
- Electric power supply: 400 V AC – 50 Hz (other voltages upon request)
- Machine dimensions and weight:
- Width: 1800 mm
- Length: 2400 mm
- Height: 2200 mm
- Weight: 1600kg

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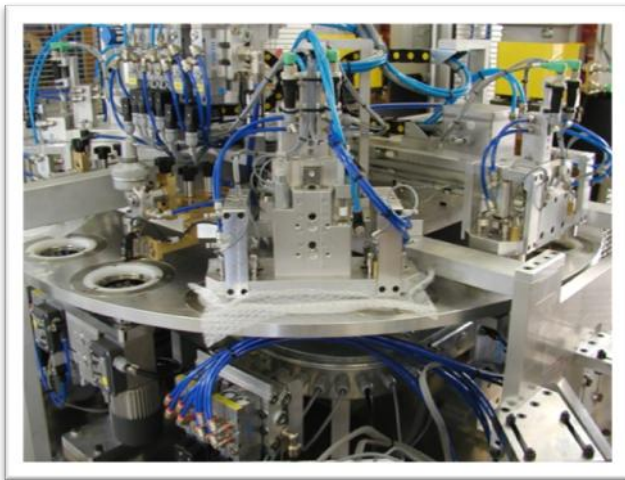
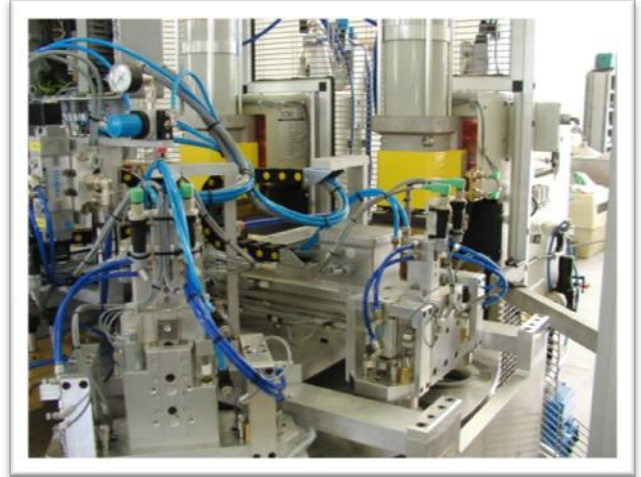
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On-line glue dispenser mod. MAF/FG-CE

A completely automatic machine that requires no operator during the automatic manufacturing cycle to pour the glue that will act as a seal on the plate elements of the filters. The machine is essentially composed of a shaped conveyor belt on the infeed, a storage station, a station for taking up and rotating the piece while pouring the glue, a connection belt that enters a drying oven insulated with the outside where the drying takes place via air at a high temperature conveyed directly onto the piece and lastly a shaped discharge belt. The machine is totally closed toward the outside so as to avoid the danger of interference with the moving parts. The machine is interfaced with a glue dispenser. The safety requirements make it conform to directive 2006/42/EC.



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Main technical characteristics:

- Max. production capacity: 1800 pcs/hour
- Pneumatic power supply: compressed air, 5-6 bar pressure
- Electric power supply: 400 V AC – 50 Hz (other voltages upon request)
- Machine dimensions and weight:
- Width: 4200 mm
- Length: 650 mm
- Height: 2000 mm
- Weight: 750kg

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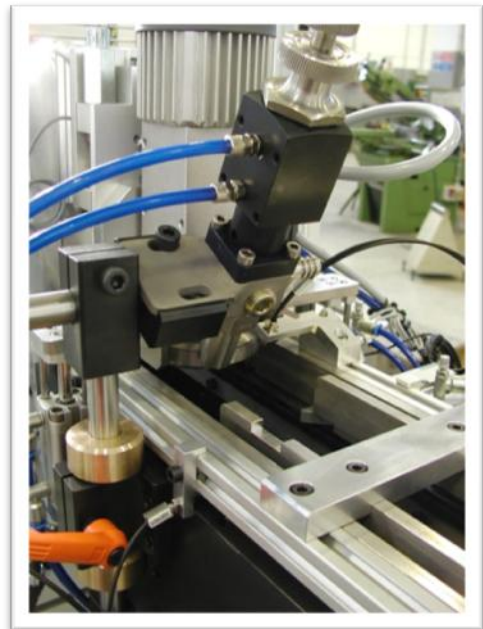
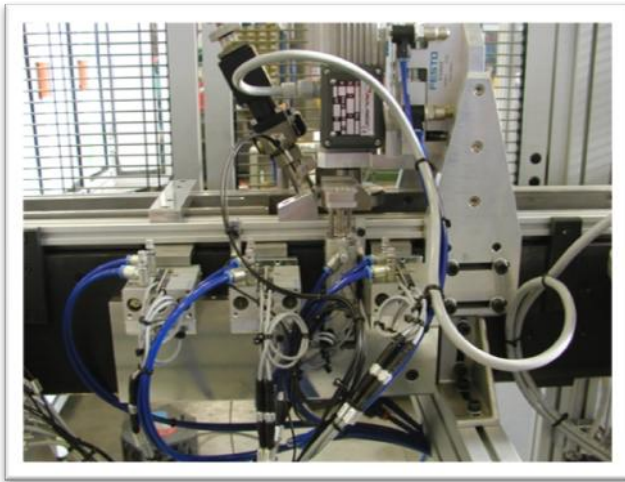
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Automatic pick&place island mod. ISCA-FT5

A totally automatic machine, with a high production rate, for positioning the plate element on the tank element of a filter.

To be able to accomplish high productivity the pieces are worked 3 at a time.

The pieces to be assembled are introduced by regulated conveyor belts and the assembled ones are discharged by another conveyor belt.

The machine is equipped with an automatic manufacturing quality control system with automatic discharge of the pieces that turn out to be non-conforming.

The machine does not need the operator to be present during the automatic manufacturing cycle.

It is totally safe as it is closed with openable transparent polycarbonate panels with an aluminium structure interfaced with safety microswitches. The safety requirements make it conform to directive 2006/42/EC.



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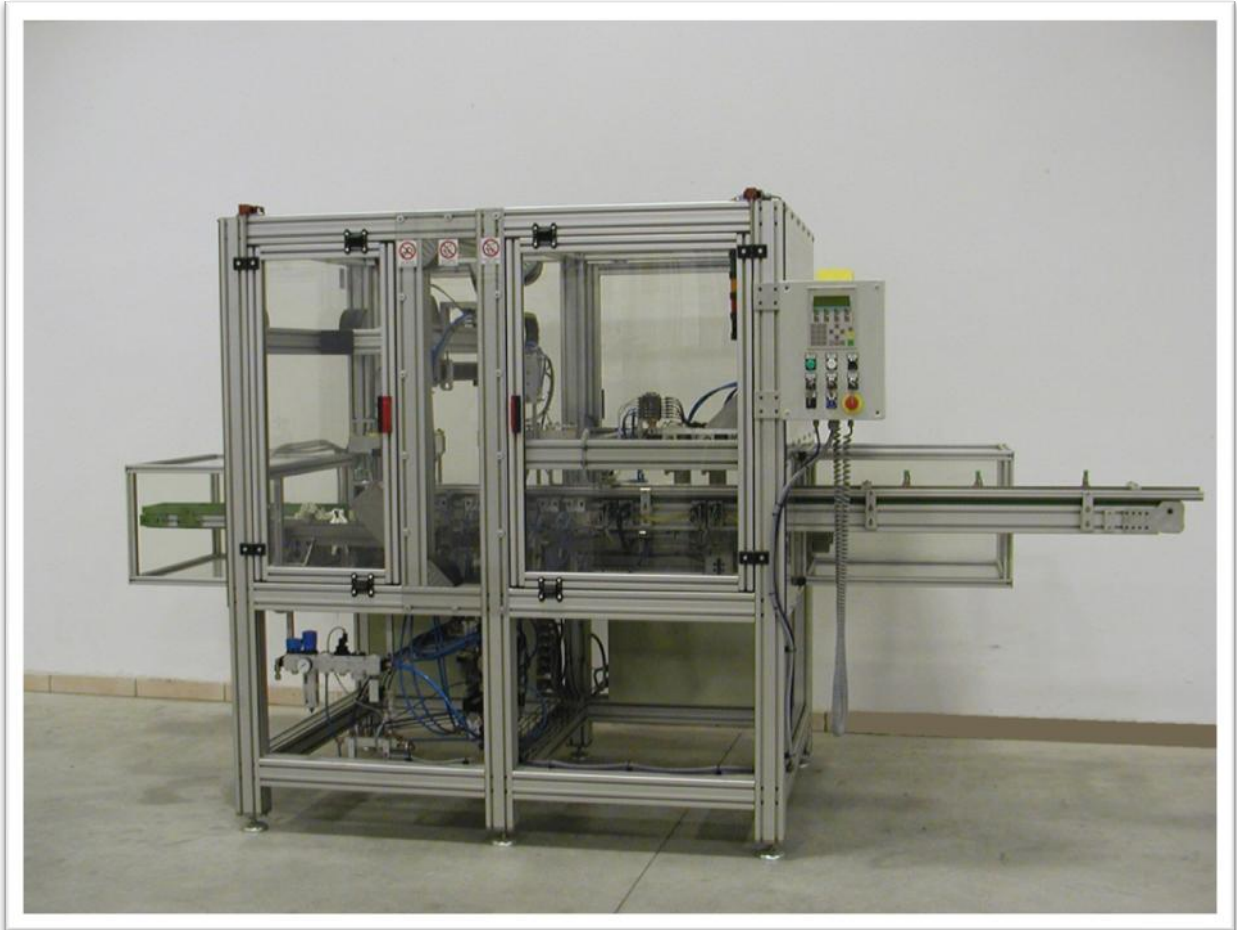
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Main technical characteristics:

- Max. production capacity: 1800 pcs/hour
- Pneumatic power supply: compressed air, 5-6 bar pressure
- Electric power supply: 400 V AC – 50 Hz (other voltages upon request)
- Machine dimensions and weight:
- Width: 3200 mm
- Length: 1200 mm
- Height: 2000 mm
- Weight: 780kg

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Hot-melt bottom forming machine mod. MAF/8ST-CE

Machine for making dried Hot-Melt bottoms, comprehensive of rubber seals on both sides of the filters. It can work various diameters and heights of filters replacing only the housings. The machine is interfaced with a hot-melt dispenser. It is totally safe for the operator and for other people as it is closed by openable transparent polycarbonate panels with an aluminium structure interfaced with safety microswitches. The safety requirements make it conform to directive 2006/42/EC.



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Main technical characteristics:

- Max. production capacity: 600 pcs/hour
- Pneumatic power supply: compressed air, 5-6 bar pressure
- Electric power supply: 400 V AC – 50 Hz (other voltages upon request)
- Glue type: Hot-Melt
- Machine dimensions and weight:
- Width: 1500 mm
- Length: 2400 mm
- Height: 2000 mm
- Weight: 1130kg

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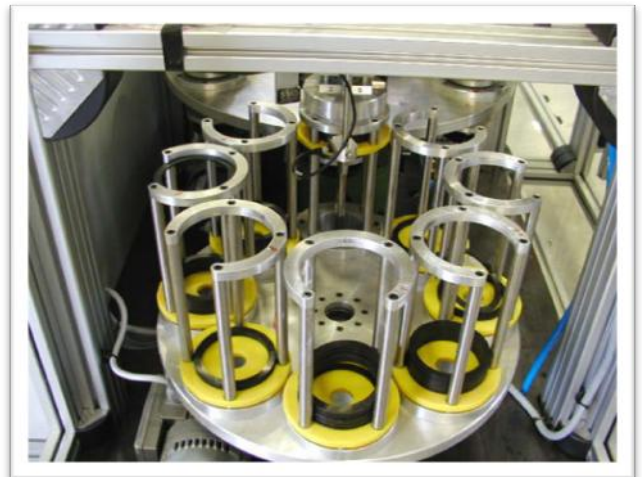
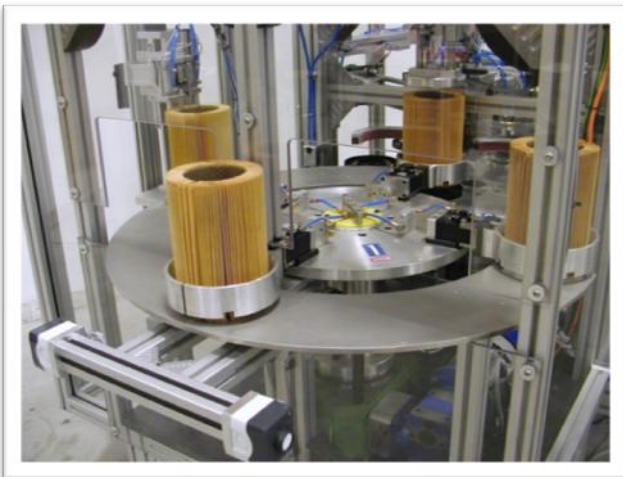
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Dimensional testing machine mod. CDF/8ST-CE

An automatic machine, with a high manufacturing speed, to check the dimensional and shape characteristics of the filters such as height, diameter and parallelism between the faces. The machine automatically expels any non-conforming pieces. Different types of pieces can be processed by replacing only the housings and changing some parameters.

To maintain a high manufacturing speed the pieces are checked two at a time.

The pieces are inserted and discharged from the machine by regulated conveyor belts.

The machine does not need the operator to be present during the automatic manufacturing cycle.

It is totally safe as it is closed with openable transparent polycarbonate panels with an aluminium structure interfaced with safety microswitches. The safety requirements make it conform to directive 2006/42/EC.



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Main technical characteristics:

- Max. production capacity: 2500 pcs/hour
- Pneumatic power supply: compressed air, 5-6 bar pressure
- Electric power supply: 400 V AC – 50 Hz (other voltages upon request)
- Machine dimensions and weight:
- Width: 1800 mm
- Length: 2000 mm
- Height: 2000 mm
- Weight: 1390kg

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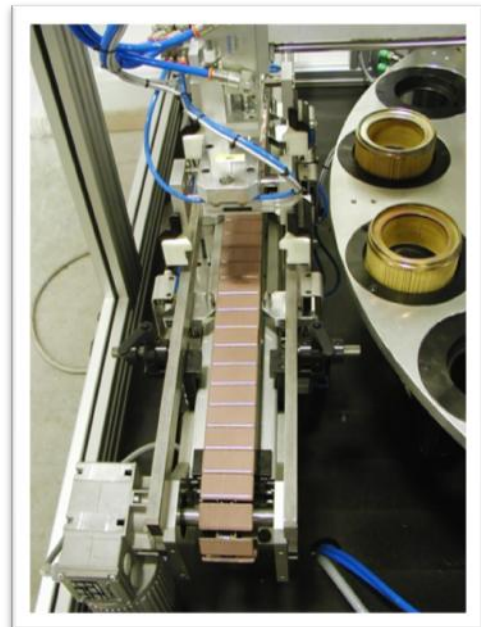
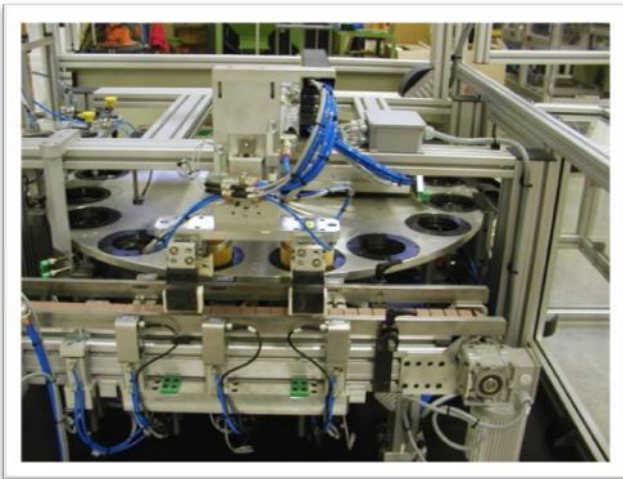
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By-pass valve assembling machine mod. WAL/2P-6/CE

A machine for assembling the various elements that will form the by-pass valve on the bottoms of the filters. It can make various forms and dimensions by replacing only the housings and the punches for clinching and pressing. It is totally safe as it is closed with an openable aluminium structure and transparent polycarbonate panels and it is guarded by two infrared-ray safety barriers in the access zones for the operator's hands.



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Main technical characteristics:

- Max. production capacity: 1200 pcs/hour
- Operators: 2
- Pneumatic power supply: compressed air, 5-6 bar pressure
- Electric power supply: 230 V AC – 50 Hz (other voltages upon request)
- Machine dimensions and weight:
- Width: 1200 mm
- Length: 1000 mm
- Height: 2000 mm
- Weight: 680kg

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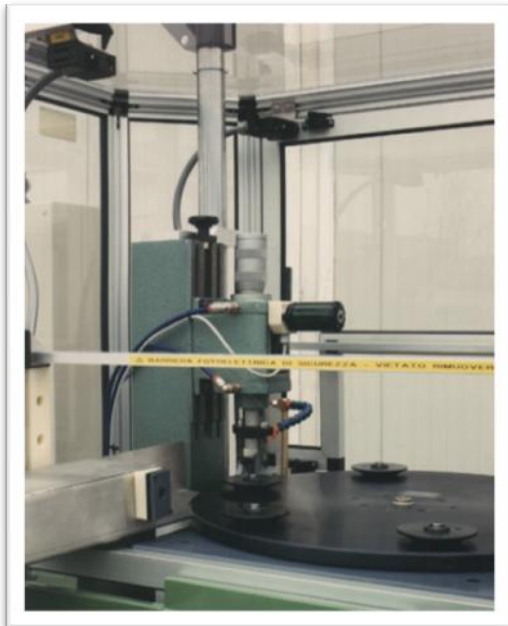
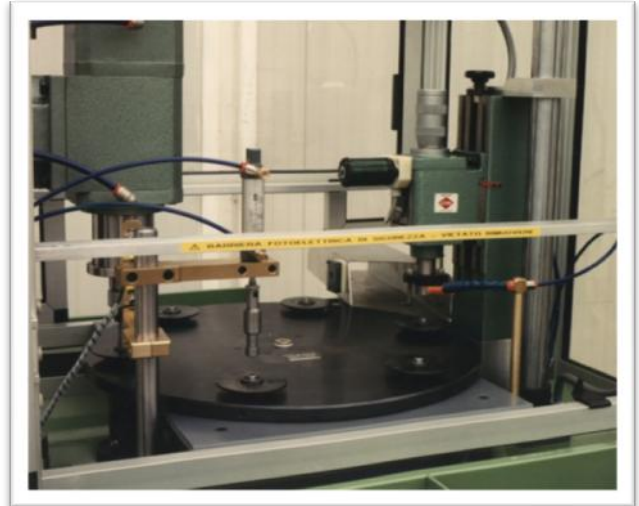
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Automatic profiling machine mod. PA/700-CE

A machine for making "V" shaped profiles up to a length of 700 mm starting from coils of metal band that can be in several sizes. The manufacturing cycle is totally automatic, the operator must only replace the coil of metal band once it is finished and set the dimensions of the profile to obtain on the electronic panel. The machine is totally safe as it is surrounded by an infrared-ray safety barrier. The safety requirements make it conform to directive 2006/42/EC.



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Main technical characteristics:

- Max. production capacity: 1500 pcs/hour
- Pneumatic power supply: compressed air, 5-6 bar pressure
- Electric power supply: 230 V AC – 50 Hz (other voltages upon request)
- Machine dimensions and weight:
- Width: 1550 mm
- Length: 4150 mm
- Height: 2200 mm
- Weight: 895kg

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Cross cutter mod. TTM/800-CE

A machine to accomplish precise and clean cutting of pleated media of width up to 800 mm. It is particularly suitable for multi-layer materials even with a stainless steel mesh. It is totally safe for the operator as it is equipped with a two-hand safety control system and two photoelectric safety barriers that guard the cutting zone. The safety requirements make it conform to directive 2006/42/EC.



Main technical characteristics:

- Washable material: single-layer or multi-layer pleated filtering material, even with metal mesh
- Filtering media; pleat length: min. 30 mm; max 800 mm
- Filtering media; pleat height: min. 5 mm; max 30 mm
- Electric power supply: 230V 50Hz
- Pneumatic power supply: 5-6 bar
- Machine dimensions and weight:
- Width: 1200 mm
- Length: 1440mm
- Height: 1260mm
- Weight: 322 kg

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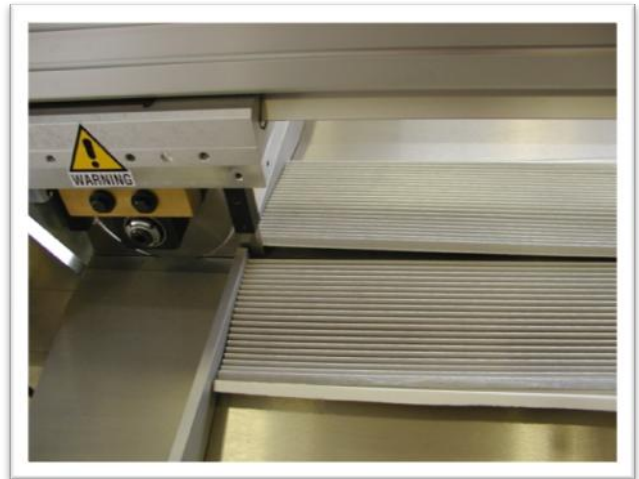
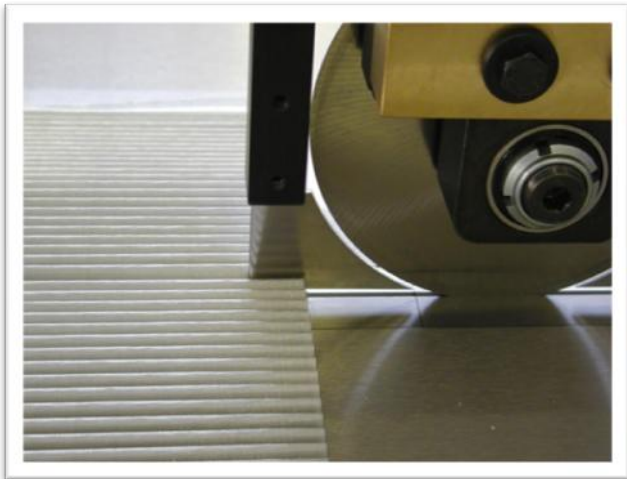
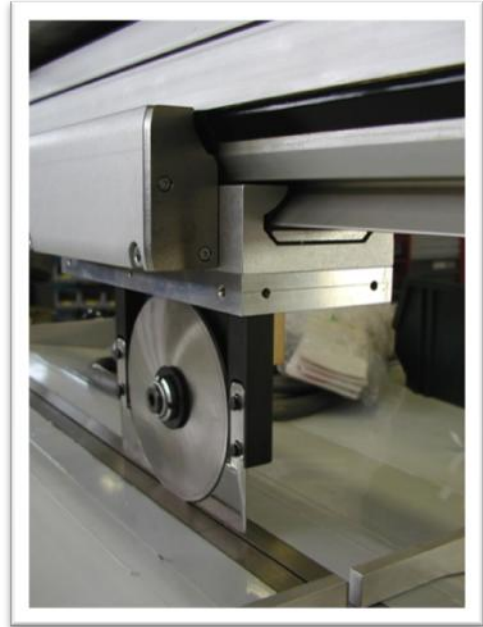
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Caulking unit mod. UCG/V1-CE

A machine for assembling the floating element on the external tank of the filter by caulking. It can make various filter sizes by replacing the adapters and the pressing punches. It is totally safe for the operator as it is equipped with a two-hand safety control system and fixed guards that enclose the moving parts. The safety requirements make it conform to directive 2006/42/EC.



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Main technical characteristics:

- Max. production capacity: 800 pcs/hour
- Parts to be assembled loading: manual
- Assembled parts unloading: manual
- Pneumatic power supply: compressed air, 5-6 bar pressure
- Electric power supply: 230 V AC – 50 Hz (other voltages upon request)
- Machine dimensions and weight:
- Width: 1100 mm
- Length: 920 mm
- Height: 1900 mm
- Weight: 239 kg

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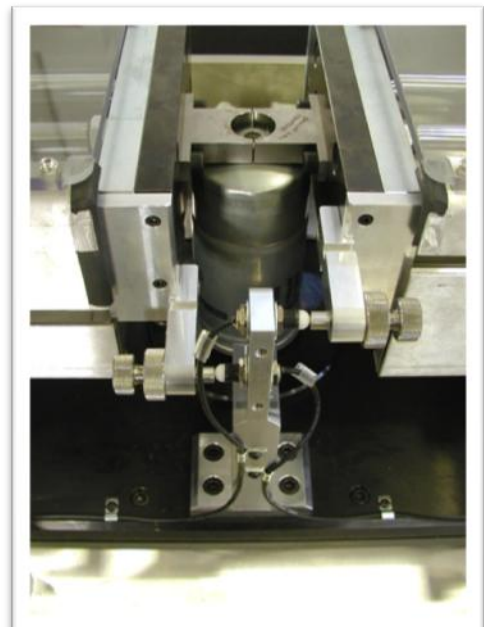
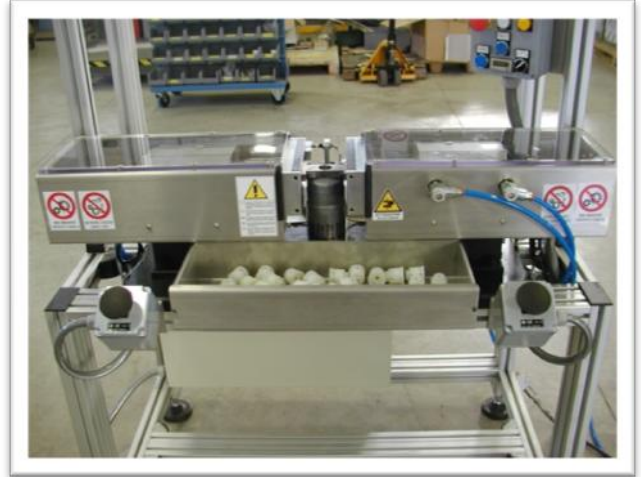
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Where we are:

The company BOSIO ALFREDO Costruzioni Meccaniche is located in Mantova, Northern Italy, close by Garda lake, about 160 km South-East far from Milan.

How to reach us:

by car (GPS instructions):

Lat. N 45,18090° = 45°10'51,3''

Long. E 10,78150° = 10°46'53,4''

Country: ITALY

Town: MANTOVA (MN)

Address: via Medole, 15

By train: MANTOVA (MN) railway (approx. 2.6 km far)

By plane:

- VERONA (VRN) airport (approx. 27 km far)
- BOLOGNA (BLQ) airport (approx. 83 km far)
- BERGAMO (BGY) airport (approx. 100 km far)
- MILANO Linate (LIN) airport (approx. 121 km far)
- MILANO Malpensa (MXP) airport (approx. 169 km far)

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