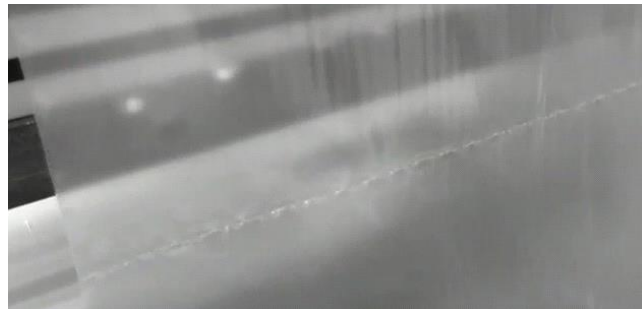
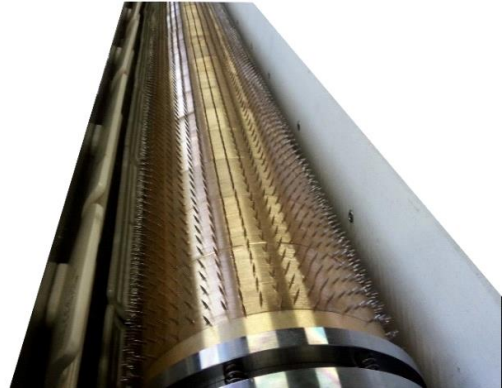
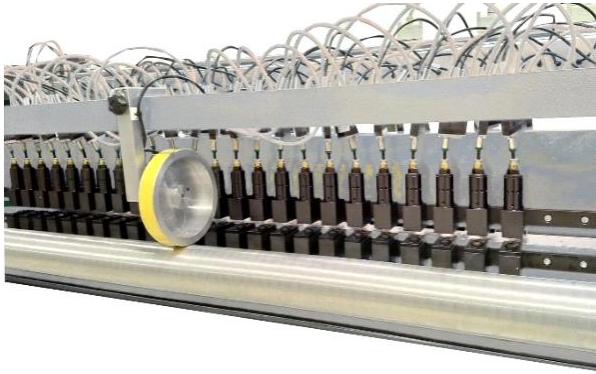




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[www. Punchandpin.com](http://www.Punchandpin.com) - tel. +39 3791244387
e-mail: rosanna@punchandpin.com

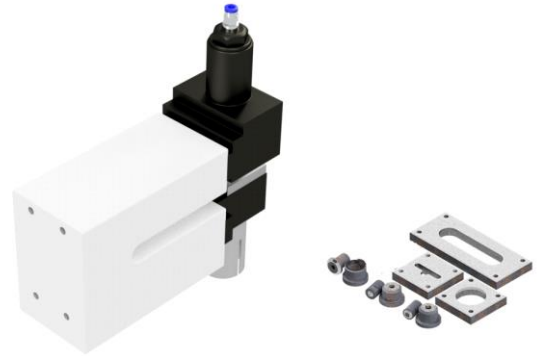


HIGH SPEED MACRO PUNCHING SOLUTIONS

By macroperforation we are able to give to thermoplastic films the optimal properties for the packaging of products for both food and industrial use.

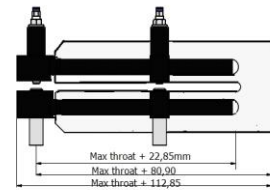
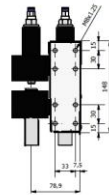
MOD. SM-CF - MOD. SM-CFL

C frame for holes on the edge of the film. It's possible to do a hole starting from diameter 3mm up to 50mm. with a throat from 100mm up to 400mm. It's possible to mount punches along the structure. Also a not completed cut hole can be done.



Features

Max material width	400mm
Max speed	250 meters per minute for elastic material and 120 for rigid material
Max Frequency	4800 holes per minute with a double-sided bridge
Diameter of the holes]	from 2mm up to 50mm
Shaped holes]	yes (handle, oval, earhole, etc.)
Not completed cut holes	Yes
Installation on	bag making machine, extruder, slitter, printing machine and so on
Holes on register	Yes
Encoder to synchronize the speed	Yes
Material that could be processed	PE, PP, paper, foam non-woven, coated material and so on
Pattern	linear, Zig zag and custom
Jo memory	Yes
Operator language	Yes
Easily set up punches across	Yes
User friendly software	Yes
remote assistance	Yes
Touch screen	Yes with predisposition 4.0





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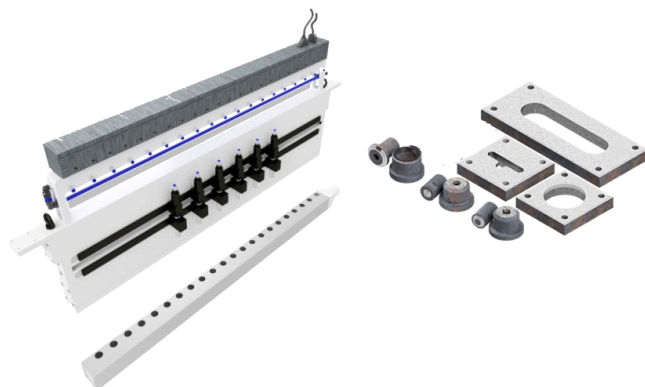
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HIGH SPEED MACRO PUNCHING SOLUTIONS

By macroperforation we are able to give to thermoplastic films the optimal properties for the packaging of products for both food and industrial use.

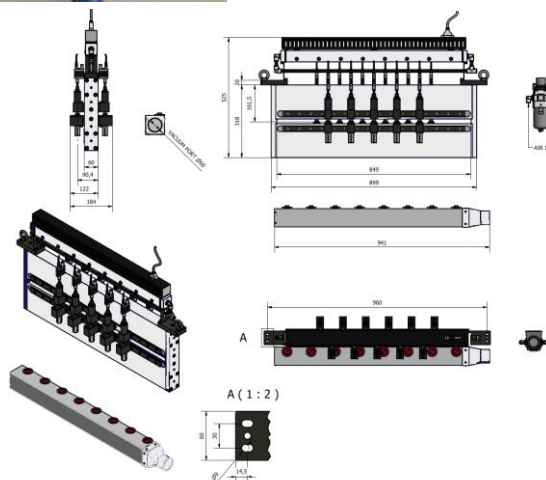
MOD. SM-SV - SM-SV2

Punching unit MOD. SM-SV - SM-SV2 are a slim solution usually suitable for installing on bag making machine, in case of tight space. The double bridge allows both twice the speed or holes narrower to each other.



Features

- Max material width 2000mm
- Max speed 250 meters per minute for elastic material and 120 for rigid material
- Max Frequency 4800 holes per minute with a double-sided bridge
- Diameter of the holes] from 2mm up to 50mm
- Shaped holes] yes (handle, oval, earhole, etc.)
- Not completed cut holes Yes
- Installation on bag making machine, extruder, slitter, printing machine and so on
- Holes on register Yes
- Encoder to synchronize the speed Yes
- Material that could be processed PE, PP, paper, foam non-woven, coated material and so on
- Pattern linear, Zig zag and custom
- Jo memory Yes
- Operator language Yes
- Easily set up punches across Yes
- User friendly software Yes
- remote assistance Yes
- Touch screen Yes with predisposition 4.0



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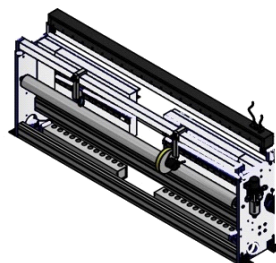


HIGH SPEED MACRO PUNCHING SOLUTIONS

By macroperforation we are able to give to thermoplastic films the optimal properties for the packaging of products for both food and industrial use.

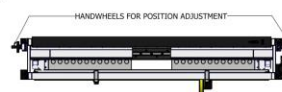
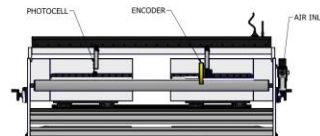
MOD. SM-SWV - MOD. SM-SWV2

Punching unit MOD. SM-SWV - SM-SWV2 are a very smart solution usually for installing on bag making machine, where both side units can be moved, using a handle wheel, thus moving at the same time all the punches without having to realigning them. The double bridge allows both twice the speed or holes narrower to each other.



Features

- Max material width 3000mm
- Max speed 250 meters per minute for elastic material and 120 for rigid material
- Max Frequency 4800 holes per minute with a double-sided bridge
- Diameter of the holes] from 2mm up to 50mm
- Shaped holes] yes (handle, oval, earhole, etc.)
- Not completed cut holes Yes
- Installation on bag making machine, extruder, slitter, printing machine and so on
- Holes on register Yes
- Encoder to synchronize the speed Yes
- Material that could be processed PE, PP, paper, foam non-woven, coated material and so on
- Pattern linear, Zig zag and custom
- Jo memory Yes
- Operator language Yes
- Easily set up punches across Yes
- User friendly software Yes
- remote assistance Yes
- Touch screen Yes with predisposition 4.0





HIGH SPEED MACRO PUNCHING SOLUTIONS

By macroperforation we are able to give to thermoplastic films the optimal properties for the packaging of products for both food and industrial use.

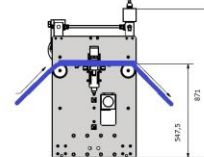
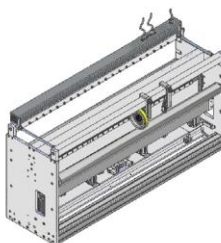
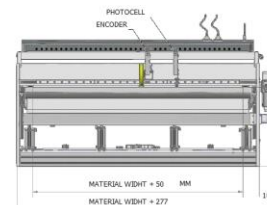
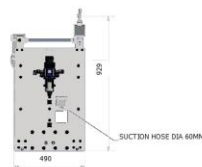
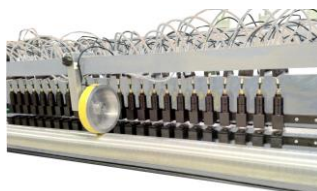
MOD. SM-OV - SM-OV2

It's the perfect solution for high number of holes and high frequency. It can be installed on slitters, printing machines and extruders. It's equipped with idle rollers for material passage; the opening of the bridge facilitates easy thread up and die change. The double bridge allows both twice the speed or holes narrower to each other. Round, butterfly and or shaped holes can be done. Punches are easily moved in set-up. The structure is rigid, hard steel, coated and protected.



Features

- Max material width 3000mm
- Max speed 250 meters per minute for elastic material and 120 for rigid material
- Max Frequency 4800 holes per minute with a double-sided bridge
- Diameter of the holes] from 2mm up to 50mm
- Shaped holes] yes (handle, oval, earhole, etc.)
- Not completed cut holes Yes
- Installation on bag making machine, extruder, slitter, printing machine and so on
- Holes on register Yes
- Encoder to synchronize the speed Yes
- Material that could be processed PE, PP, paper, foam non-woven, coated material and so on
- Pattern linear, Zig zag and custom
- Jo memory Yes
- Operator language Yes
- Easily set up punches across Yes
- User friendly software Yes
- remote assistance Yes
- Touch screen Yes with predisposition 4.0





HIGH SPEED MACRO PUNCHING SOLUTIONS

By macroperforation we are able to give to thermoplastic films the optimal properties for the packaging of products for both food and industrial use.

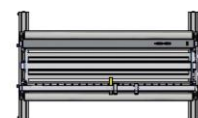
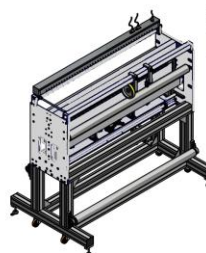
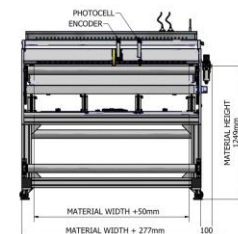
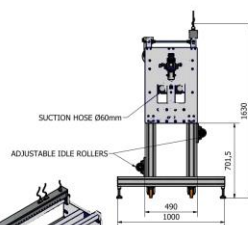
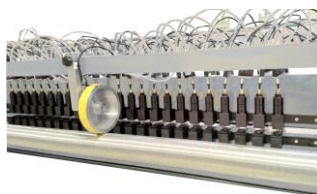
MOD. SM-OV - MOD. SM-OV2 TROLLEY

It's the perfect solution for high number of holes and high frequency. It's equipped with idle rollers for material passage; the opening of the bridge facilitates easy thread up and die change. The double bridge allows both twice the speed or holes narrower to each other. The structure is rigid, hard steel, coated and protected. MOD. SM-OV TROLLEY is equipped with the mobile trolley to move the unit. The operator can also easily carry out maintenance operations.



Features

- Max material width 3000mm
- Max speed 250 meters per minute for elastic material and 120 for rigid material
- Max Frequency 4800 holes per minute with a double-sided bridge
- Diameter of the holes] from 2mm up to 50mm
- Shaped holes] yes (handle, oval, earhole, etc.)
- Not completed cut holes Yes
- Installation on bag making machine, extruder, slitter, printing machine and so on
- Holes on register Yes
- Encoder to synchronize the speed Yes
- Material that could be processed PE, PP, paper, foam non-woven, coated material and so on
- Pattern linear, Zig zag and custom
- Jo memory Yes
- Operator language Yes
- Easily set up punches across Yes
- User friendly software Yes
- remote assistance Yes
- Touch screen Yes with predisposition 4.0





HIGH SPEED MACRO PUNCHING SOLUTIONS

By macroperforation we are able to give to thermoplastic films the optimal properties for the packaging of products for both food and industrial use.

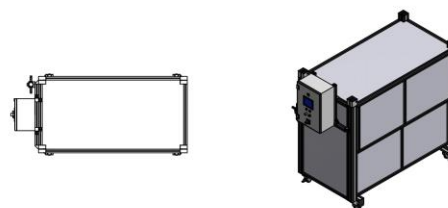
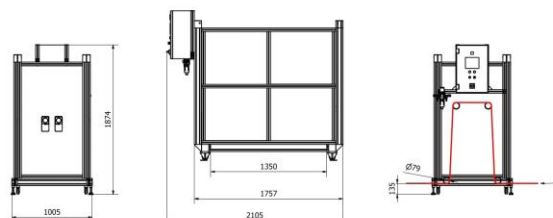
MOD.SM-OV - SM-OV2 SOUNDPROOFED

It's the perfect solution for high number of holes and high frequency. It can be installed on slitters, printing machines and extruders. It's equipped with idle rollers for material passage; the opening of the bridge facilitates easy thread up and die change. The double bridge allows both twice the speed or holes narrower to each other. Round, butterfly and or shaped holes can be done. Punches are easily moved in set-up. The structure is rigid, hard steel, coated and protected. MOD. SM-OV SOUNDPROOFED is equipped with an acoustic shield to reduce sensibly the noise.



Features

- Max material width 3000mm
- Max speed 250 meters per minute for elastic material and 120 for rigid material
- Max Frequency 4800 holes per minute with a double-sided bridge
- Diameter of the holes] from 2mm up to 50mm
- Shaped holes] yes (handle, oval, earhole, etc.)
- Not completed cut holes Yes
- Installation on bag making machine, extruder, slitter, printing machine and so on
- Holes on register Yes
- Encoder to synchronize the speed Yes
- Material that could be processed PE, PP, paper, foam non-woven, coated material and so on
- Pattern linear, Zig zag and custom
- Jo memory Yes
- Operator language Yes
- Easily set up punches across Yes
- User friendly software Yes
- remote assistance Yes
- Touch screen Yes with predisposition 4.0



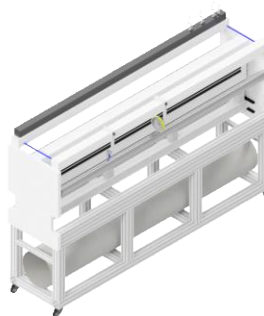


HIGH SPEED MACRO PUNCHING SOLUTIONS

By macroperforation we are able to give to thermoplastic films the optimal properties for the packaging of products for both food and industrial use.

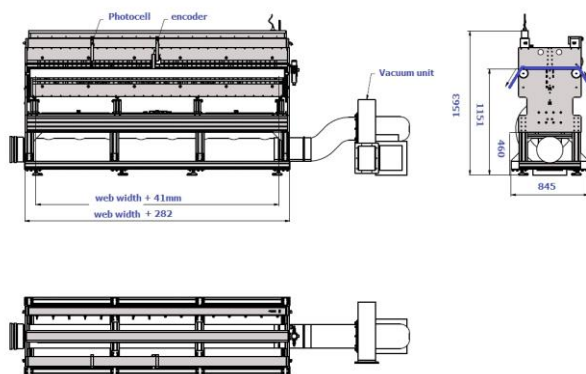
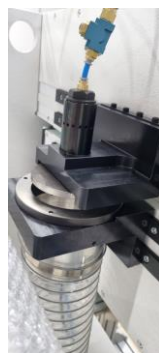
MOD. SM-MOV - MOD. SM.MOV2

It's the perfect solution for doing big holes like for the mulching film. It's the strongest and the hardest structure. It's usually installed on extrusion lines. Is suitable for doing holes small and big holes at the same time. The opening of the bridge facilitates easy thread up and die change. The double bridge allows both twice the speed or holes narrower to each other.



Features

- Max material width 4000mm
- Max speed 150 meters per minute
- Max Frequency 3000 holes per minute
- Diameter of the holes] from 2mm up to 100mm
- Shaped holes] yes (handle, oval, earhole, etc.)
- Not completed cut holes Yes
- Installation on bag making machine, extruder, slitter, printing machine and so on
- Holes on register Yes
- Encoder to synchronize the speed Yes
- Material that could be processed PE, Biodegradable material
- Pattern linear, Zig zag and custom
- Jo memory Yes
- Operator language Yes
- Easily set up punches across Yes
- User friendly software Yes
- remote assistance Yes
- Touch screen Yes with predisposition 4.0





SPARE PARTS PUNCHING UNIT

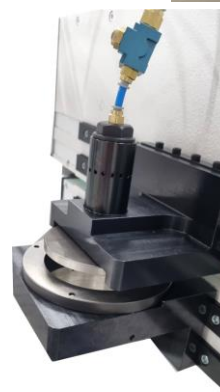
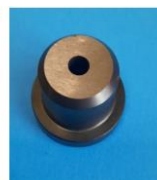
PUNCHING UNITS SPARE PARTS

We can offer spare parts of competitors' for punching units, like hammers and dies and so on.



Features

Installation on our spare parts can be mounted on competitors' punching units





HIGH SPEED COLD & HOT NEEDLE PERFORATION

By microperforation we are able to give to thermoplastic films the optimal properties for the packaging of products for both food and industrial use.

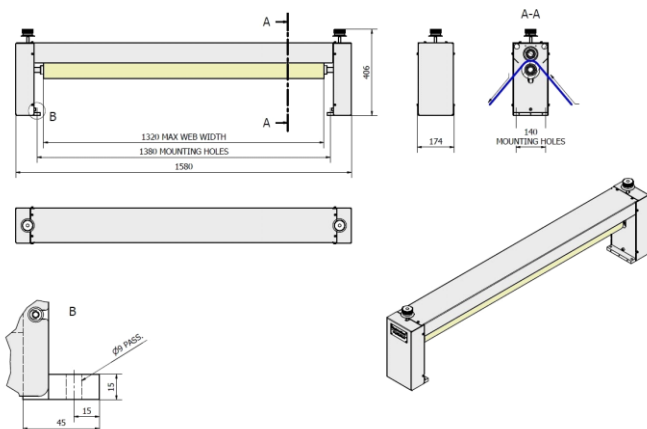
MOD. SM-CMS

The Cold needle perforation is a mechanical perforation where the material is only pushed aside and not melted by heating. This generally results in the hole partially re-closing after perforation, which offers some advantages when trying to permit only one-way passage of a liquid or solid through the hole. The back-up pressure roller could be in natural fibre (brush) or rubber according to the material to be processed. Our Mod. SM-CMS is our basic unit where the density of the pins is not too high.



Features

- Max material width 1600mm
- Max speed 200 meters per minute
- Density of the holes High and low density of holes
- Installation on bag making machine, extruder, slitter, printing machine and so on
- Material that could be processed PE, PP, paper, foam non-woven, coated material and so on
- Pneumatic device for adjusting the depth of the pins Yes





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HIGH SPEED COLD & HOT NEEDLE PERFORATION

By microperforation we are able to give to thermoplastic films the optimal properties for the packaging of products for both food and industrial use.

MOD. SM-CMM

The Cold needle perforation is a mechanical perforation where the material is only pushed aside and not melted by heating. This generally results in the hole partially re-closing after perforation, which offers some advantages when trying to permit only one-way passage of a liquid or solid through the hole. The back-up pressure roller could be in natural fibre (brush) or rubber according to the material to be processed. The Mod. SM-CMM is suitable for high speed and or high density of pins, such as for aluminium or foam material.



Features

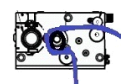
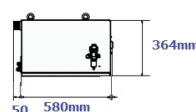
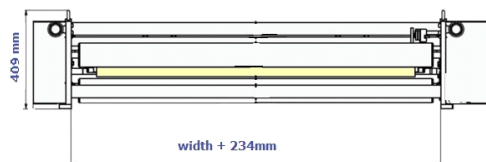
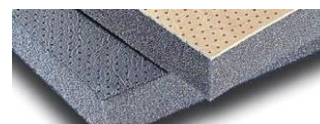
Max material width 3000mm

Max speed 200 meters per minute

Density of the holes High and low density of holes

Installation on bag making machine, extruder, slitter, printing machine and so on

Material that could be processed PE, PP, paper, foam non-woven, coated material and so on





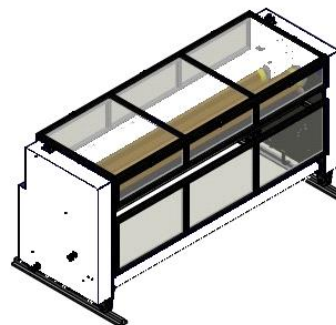
HIGH SPEED COLD & HOT NEEDLE PERFORATION

By microperforation we are able to give to thermoplastic films the optimal properties for the packaging of products for both food and industrial use.

MOD. SM-CML

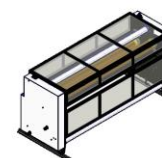
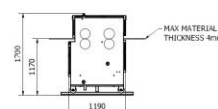
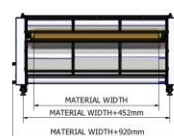
Cold needle perforation is a mechanical perforation where the material is only pushed aside and not melted by heating. The back-up pressure roller could be in natural fibre (brush) or rubber according to the material to be processed.

Mod. SM-CML is our heavy-duty unit, high speed and high density of pins or in case of high pressure application, like for corrugated material.



Features

- Max material width 4000mm
- Max speed 200 meters per minute
- Density of the holes High and low density of holes
- Installation on bag making machine, extruder, slitter, printing machine and so on
- Material that could be processed PE, PP, paper, foam non-woven, coated material, corrugated and so on
- remote assistance Yes
- Touch screen Yes with predisposition 4.0
- Pneumatic device for adjusting the depth of the pins Yes
- Drive pin shaft Yes



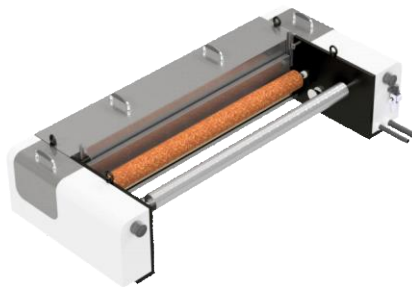


HIGH SPEED COLD & HOT NEEDLE PERFORATION

By microperforation we are able to give to thermoplastic films the optimal properties for the packaging of products for both food and industrial use.

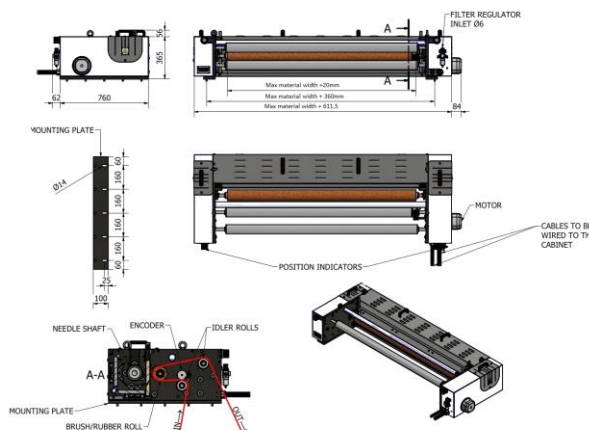
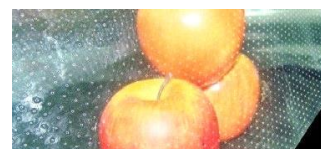
MOD. SM-HMS

Hot needle perforation involves passing super-heated needles through the material to both penetrate and melt it. This results in a round and clean hole. Microperforation can be used to vent the steam from package or for breathability or oxygen fresh food. Our state-of-the-art hot-needle perforation features digital computer controls and servo drives for precise hole size. The heating system is segmented into three comparts of infrared ceramic elements for maximum temperature uniformity. Microperforation can be performed in strips on a certain area of the film or on the entire tape; many different perforation patterns according to the customer's needs can be made.



Features

- Max material width 2000mm
- Max speed 100 meters per minute
- Diameter of the holes] from 0,1mm up to 1,5mm
- Density of the holes High and low density of holes
- Installation on bag making machine, extruder, slitter, printing machine and so on
- Holes on register No
- Encoder to synchronize the speed Yes
- Material that could be processed PE, PP, paper, foam non-woven, coated material and so on
- Operator language Yes
- remote assistance Yes
- Touch screen Yes with predisposition 4.0
- Pneumatic device for adjusting the depth of the pins Yes
- Drive pin shaft Yes





HIGH SPEED COLD & HOT NEEDLE PERFORATION

By microperforation we are able to give to thermoplastic films the optimal properties for the packaging of products for both food and industrial use.

MOD. SM-HML

Hot needle perforation involves passing super-heated needles through the material to both penetrate and melt it. This results in a round and clean hole. Some fresh products require high breathability or oxygen transmission rate to extend their shelf life. Our state-of-the-art hot-needle perforation features digital computer controls and servo drives for precise hole size. The heating system is segmented into three comparts of infrared ceramic elements for maximum temperature uniformity. MOD. SM-HML is our heavy-duty unit with large diameter rollers; the most suitable unit for high density of pins or high pressure application. Microperforation can be performed in stripes or on the entire web according to customers' needs.



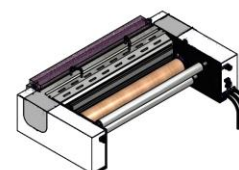
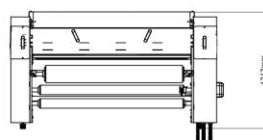
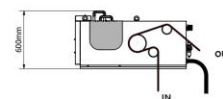
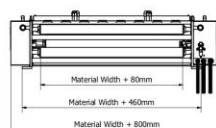
Features

Max material width	3000mm
Max speed	200 meters per minute
Density of the holes	High and low density of holes
Installation on	bag making machine, extruder, slitter, printing machine and so on
Holes on register	no
Encoder to synchronize the speed	Yes
Material that could be processed	PE, PP, paper, foam non-woven, coated material and so on

remote assistance	Yes
Touch screen	Yes with predisposition 4.0
Pneumatic device for adjusting the depth of the pins	Yes
Drive pin shaft	Yes



MOD. HMS LAY OUT





SPARE PARTS MICROPERFORATION

MICROPERFORATION SPARE PARTS

We can offer spare parts of competitors' microperforator such as pin cylinders, brush and rubber rollers.



Features

Installation on our microperforation spare parts can be mounted on competitors' microperforation units.





PRE-CUT

Cross or longitudinal pre-cut on moving web

MOD. SM-CTM

Perforation unit for doing slits in machine direction. It is a mechanical perforation unit where the material is only pushed aside. The back-up pressure roller can be in natural fibre (brush) or rubber according to the material to be processed. It could be installed on extruder, slitters, bag making machine, printing machines and so on. Our Mod. SM-CTM can be equipped with toothed circular blades or pins mounted on a shaft depending on customers' requirements and materials. The max material width is 3000mm.



Features

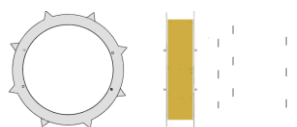
Max material width 3000mm

Max speed 200 meters per minute

Installation on bag making machine, extruder, slitter, printing machine and so on

Encoder to synchronize the speed Yes

Material that could be processed PE, PP, paper, foam non-woven, coated material and so on





PRE-CUT

Cross or longitudinal pre-cut on moving web

MOD. SM-CTP

cross tear perforation unit for web direction tear lines in film, foil, foam, paper and non-woven. The back-up pressure roller can be in natural fibre (brush) or rubber according to the material to be processed. Our Mod. SM-CTP can be equipped with blades or pins mounted on a shaft depending on customers' requirements and materials. The encoder with a measuring wheel synchronizes the speed with the hosting machine and manage the distance of the cross-tear lines and there is also an epicyclical adaptor for motion transmission to the roller.

The minimum or maximum distance of each cross-tear web direction lines is as per customer request.



Features

Max material width 3000mm

Max speed 200 meters per minute

Installation on bag making machine, extruder, slitter, printing machine and so on

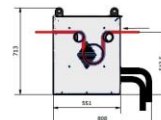
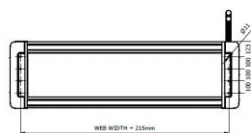
Encoder to synchronize the speed Yes

Material that could be processed PE, PP, paper, foam non-woven, coated material and so on

Operator language Yes

remote assistance Yes

Touch screen Yes with predisposition 4.0





HIGH SPEED LASER FOR MICRO-HOLES & SCORING

Laser perforation is for doing micro-holes into material to allow the release of atmospheric gases from the packaging to extend the shelf life of your products (MAP) or for doing scoring, scribing in machine direction.

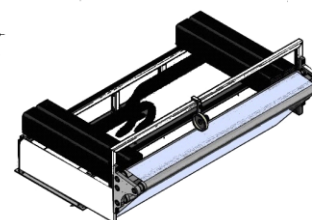
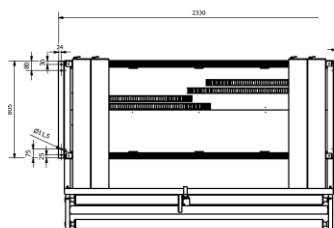
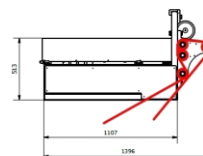
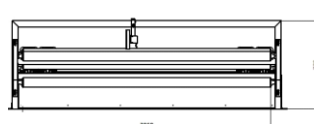
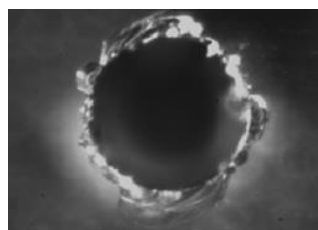
MOD. SM-LMH

Laser perforation for doing micro-holes into material to allow the release of atmospheric gases from the packaging to extend the shelf life of fresh products. (MAP). Our MOD. SM-LMH is typically modular and it can be mounted on just about any line. There are a non-contact method of perforating. Laser focus can be adjusted for the material being processed. It's for extending shelf life of fresh products.



Features

Max material width	3000mm
Max speed	300 meters per minute
Diameter of the holes]	from 70 my to 200 my
Installation on	bag making machine, extruder, slitter, printing machine and so on
Holes on register	Yes
Encoder to synchronize the speed	Yes
Material that could be processed	PE , PP , coated
Jo memory	Yes
Operator language	Yes
User friendly software	Yes
remote assistance	Yes
Touch screen	Yes with predisposition 4.0





HIGH SPEED LASER FOR MICRO-HOLES & SCORING

Laser perforation is for doing micro-holes into material to allow the release of atmospheric gases from the packaging to extend the shelf life of your products (MAP) or for doing scoring, scribing in machine direction.

MOD. SM-LS

Laser perforation for doing micro-holes into material to allow the release of atmospheric gases from the packaging to extend the shelf life of fresh products. (MAP). Our MOD. SM-LMH is typically modular and it can be mounted on just about any line. There are a non-contact method of perforating. Laser focus can be adjusted for the material being processed. It's for extending shelf life of fresh products.



Features

Max material width 3000mm

Max speed 300 meters per minute

Installation on bag making machine, extruder, slitter, printing machine and so on

Encoder to synchronize the speed Yes

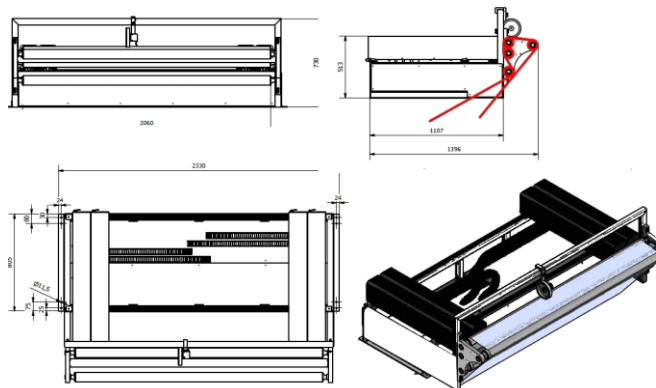
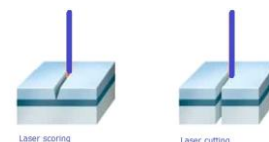
Material that could be processed PE, PP and coated material

Operator language Yes

User friendly software Yes

remote assistance Yes

Touch screen Yes with predisposition 4.0





Punch & Pin

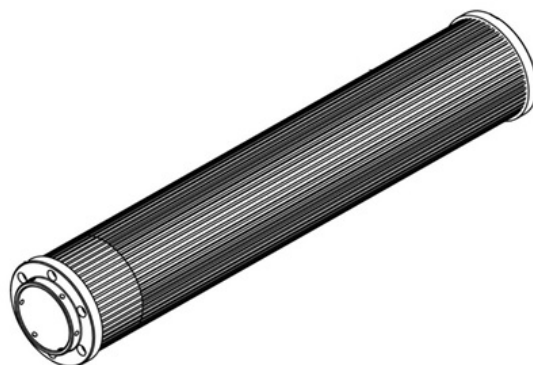
www.punchandpin.com

FIBRILLATION - BARS AND CYLINDERS

Fibrillation is the process of forming multiple short cuts or splits in the yarn parallel to the yarn axis.

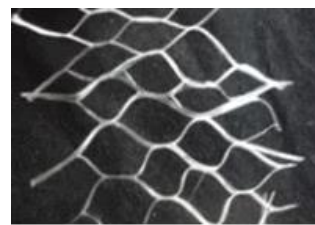
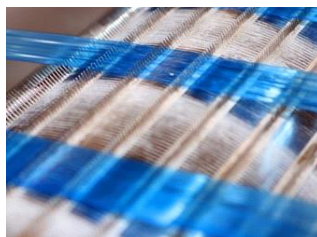
MOD. SM-FSC

Our MOD. SM-FSC is a fibrillation shaft on which are mounted fibrillation rollers. The pin projection the pin pattern and pin density can be customized to the application. Various pin angles can be utilized to suit the customer needs. The final products that can be done are: artificial lawn and astroturf , ropes, cords yarns , harvest yarns , concrete re-enforcement fibers , carpet backing, belts, staple fibers, and so on.



Features

Max material width 3000mm



Punch and Pin srl
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Punch & Pin

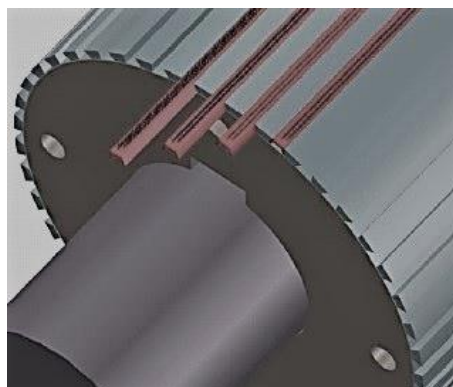
www.punchandpin.com

FIBRILLATION - BARS AND CYLINDERS

Fibrillation is the process of forming multiple short cuts or splits in the yarn parallel to the yarn axis.

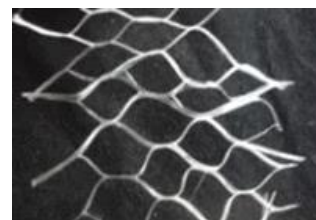
MOD. SM-FSB

Our MOD. SM-FSB is a fibrillation roller with grooves and needle bars. The pin projection, the pin pattern and the pin density can be customized to the application. Various pin angles can be utilized to suit the application. The final products can be: artificial lawn and astroturf, ropes, cords, yarns, harvet yarns, concrete reinforcement fibers, carpet backing, belts, staple Fibers (PTFE Teflon etc.) and so on.



Features

Max material width 3000mm





COLD EMBOSsing

Embossing is the process of pressuring a roll of embossing cylinder which has a pattern engraved on its surface.

MOD. SM-ECS

Our MOD. SM-ECMS embossing machine consists of a shaft with embossed engravings, pressed against another cylinder covered with rubber. A special device coordinate the cylinders, preventing them from slipping and ensuring a clear impression of the design. The final products are Embossing stripes on heavy duty sacks for reducing slippage during palletisation.



Features

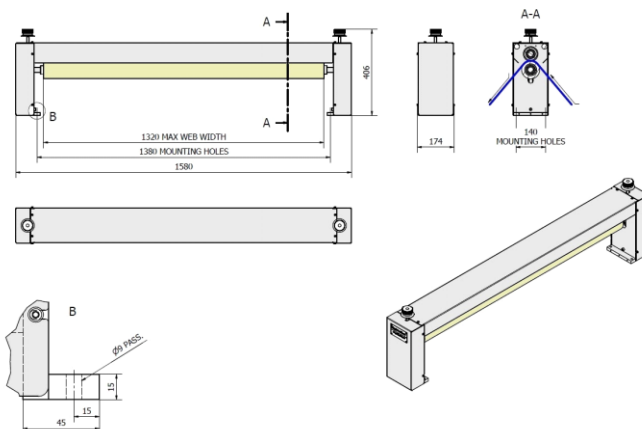
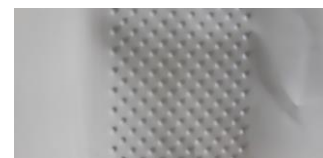
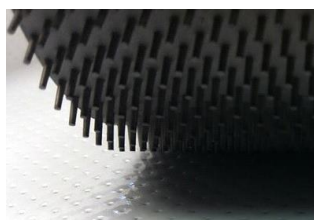
Max material width 2000mm

Max speed 200 meters per minute

Installation on bag making machine, extruder, slitter, printing machine and so on

Material that could be processed PE, PP, paper, coated material and so on

Pneumatic device for adjusting the depth of the pins Yes



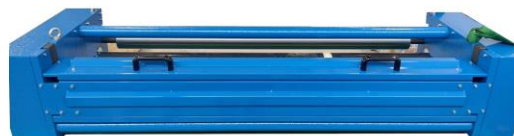


COLD EMBOSsing

Embossing is the process of pressuring a roll of embossing cylinder which has a pattern engraved on its surface.

MOD. SM-ECM

The embossing machine consists of a shaft with embossed engravings, pressed against another cylinder covered with rubber. A special device coordinate the cylinders, preventing them from slipping and ensuring a clear impression of the design. The final products are: Embossing stripes on heavy duty sacks for reducing slippage during palletisation , Smooth Embossing Disposable Gloves, Smooth embossing for cigarettes , Smooth embossing for butte, Smooth embossing for chocolate .



Features

Max material width 3000mm

Max speed 200 meters per minute

Installation on bag making machine, extruder, slitter, printing machine and so on

Pneumatic device for adjusting the depth of the pins Yes

