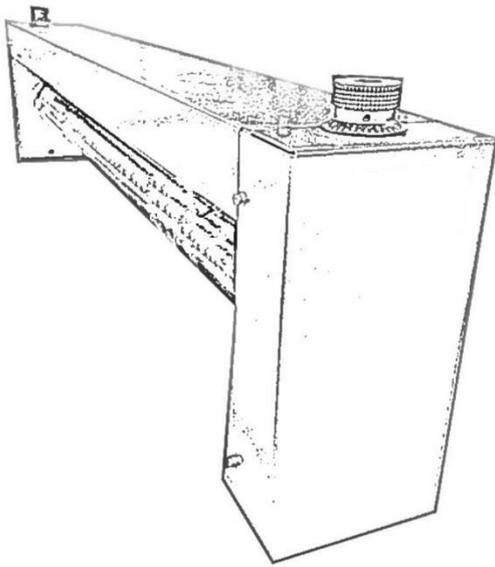




# Punch & Pin

## Cold needle perforator 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.

It can be installed on extruders, cutters, bag making machines, printing machines, etc.

The maximum width of the material is 1600mm and the maximum speed is 150 meters per minute.

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## EXAMPLE OF FINAL PRODUCTS

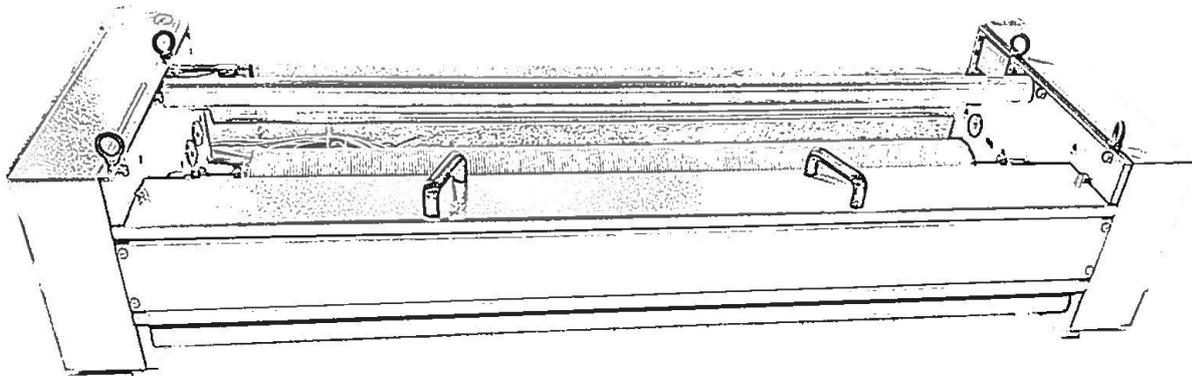


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## Cold needle perforator MOD. SM-CMM



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, like of example for aluminium or foam material.

It could be installed on extruder, slitters, bag making machines, printing machines and so on.

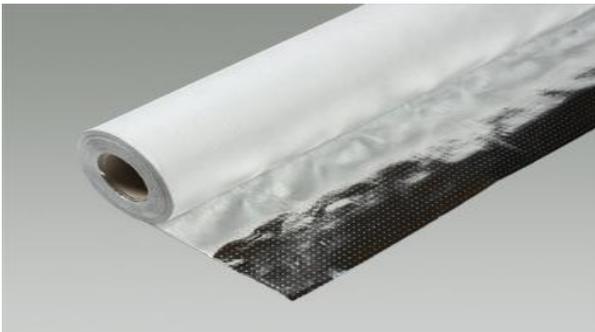
The max material width is 2500mm and the max speed is 250 meters per minute.

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## EXAMPLE OF FINAL PRODUCTS

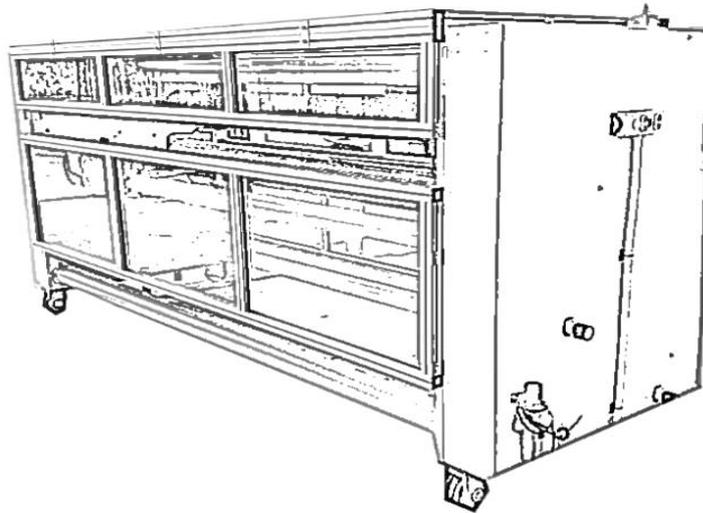


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## Cold needle perforator MOD. SM-CML



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

It could be installed on extruder, slitters, bag making machines, printing machines and so on.

The max material width is 4000mm and the max speed is 300 meters per minute.

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## EXAMPLE OF FINAL PRODUCTS

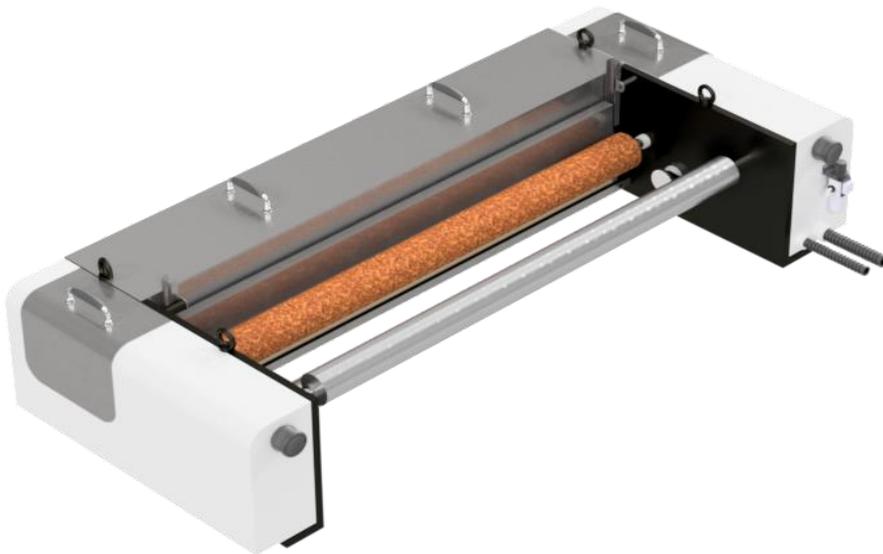


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## Hot needle perforator MOD. SM-HMS



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.

Some products, such as cut fruit and vegetables require high breathability or oxygen transmission rate to extend their shelf life and customizing a certain perforation pattern can achieve that. Micro-perforations can also be used to vent the steam from a package that is being heated in the microwave. This can be accomplished in the form of a finished bag or a lidding film.

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 compartments of infrared ceramic elements for maximum temperature uniformity.

The MOD. SM-HMS can reach a max speed of 100 meters per minute

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## MAIN SPECIFICATIONS

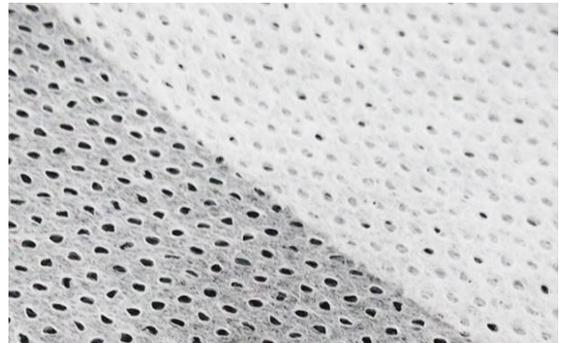
- High speed: Max 100 meters per minute
- Medium density of holes
- Hole size from 150 my to 2000my
- Max material width 1600mm
- Pneumatic device for adjusting the depth of the pins
- Counter roller: natural fibre, rubber or silicon
- It could be installed on: extruder, slitter, printing machine, bag making machine, coating machines and so on.
- Electronic control with touch screen 4.0
- Heating system with infrared ceramics elements (3 zones) with thermocouple.
- Drive pin shaft on which are mounted the pinned rollers.
- Encoder with wheel to synchronize the speed
- Emergency web break system
- Fume hood
- Remote assistance
- System of aspiration with electrostatic filters.
- Material to be processed: PE, PP, synthetic leather, coated, non-woven, foam

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## EXAMPLE OF FINAL PRODUCTS



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## Hot needle perforator 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 products, such as cut fruit and vegetables require high breathability or oxygen transmission rate to extend their shelf life and customizing a certain perforation pattern can achieve that.

Micro-perforations can also be used to vent the steam from a package that is being heated in the microwave. This can be accomplished in the form of a finished bag or a lidding film.

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 compartments of infrared ceramic elements for maximum temperature uniformity.

The 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.

The MOD. SM-HML can reach a max speed of 220 meters per minute

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## MAIN SPECIFICATIONS

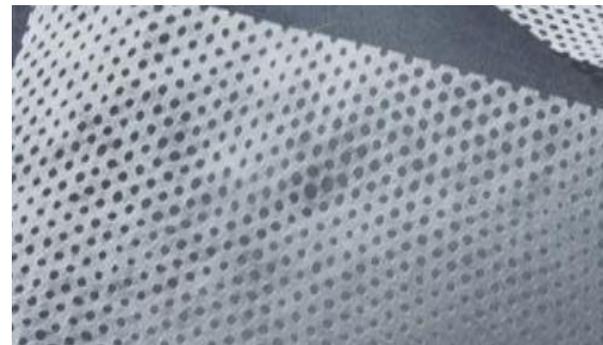
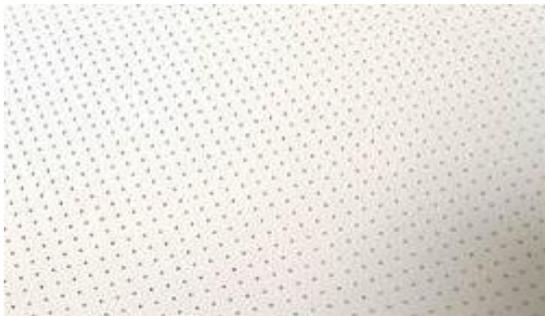
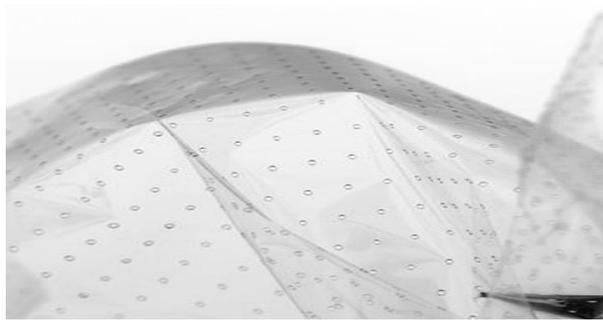
- High speed: Max 220 meters per minute
- Very high or very low density of holes
- Hole size from 150 my to 2000my
- Max material width 3000mm
- Pneumatic device for adjusting the depth of the pins
- Counter roller: natural fibre, rubber or silicon
- It could be installed on: extruder, slitter, printing machine, bag making machine, coating machines and so on.
- Electronic control with touch screen 4.0
- Heating system with infrared ceramics elements (3 zones) with thermocouple.
- Drive pin shaft on which are mounted the pinned rollers.
- Encoder with wheel to synchronize the speed
- Emergency web break system
- Fume hood
- Remote assistance
- System of aspiration with electrostatic filters.
- Material to be processed: PE, PP, synthetic leather, coated, non-woven, foam

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## EXAMPLE OF FINAL PRODUCTS



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## PINNED PERFORATION ROLLERS



We can offer pinned perforation rollers in many different variations to meet our customer's requirements for both hot needle perforation and cold needle perforation.

We can offer a full range of pinning densities with different core diameter, different pin projection.

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