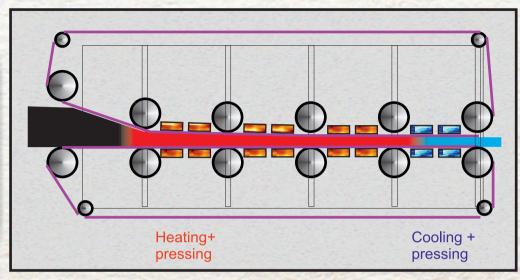


CONTINOUS PRESS



Material at the inlet





Material at the outlet

WORKING PRINCIPLE

This new machine has been studied and optimized to produce highly **dense boards from nonwoven**, from any kind of non woven, waste material or particles. The press uses plain and solid belts, that are able to press the product very heavily and cool it while it is still under heavy pressure. The heating of the product is provided by hot plates that transmit the heat to the plain (solid) belts and also hot rolls. The heating time is given by the length of the belt + hot plates, with the heating of the plates and rolls made by forced thermal oil circulation.

These can be warmed up using a gas-fired unit as well as an electric power unit. Cooling of the felt is made by water cooled plates and rolls

in contact with the belts, situated in the last part of the module. Cold water flows into and through the cold plates and rolls, via a centrifugal pump. With the press.

centrifugal pump. With the press, which is a combination of calender and oven, the material is

ALWAYS under compression.

The belts are supported by the rolls and plates and the pressure is applied for their full length with belt distances adjustable from a central control board.





CONTINOUS PRESS FOR AUTOMOTIVE PADS



These pads are generally made by a blend of Kenaf or Hemp fiber and PP, formed with air lay system and needle punched. With a weight of 1500-1800 gsm, they result with a thickness of 15-18mm around.

To form automotiva parts with a 3d press means a big energy consumption + time wasting as the heat must penetrate into a 15-18mm thick insulating product.

The solution is to use a double belt press just after the needling process to reduce the thickness of the felt till 3-5mm. This make a hard and stiff pad, that could be very easily warmed before the 3D forming, saving energy, time and getting a more precise product as it is much more dimensionally stable. The machine uses a series of large hot calenders to press down the web and hot plated for heating till the center of the machine where a double calender block the felt definitely and push it into the cooling area. The cooling is made with cold calenders and cold plates, in a similar way





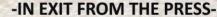






-ENTERING IN THE PRESS-











CONTINOUS PRESS FOR SHODDY WEBS

Applications: Compressing of shoddy felt with PP or Bico. (It is possible to produce hard material with a low quantity of bonding fibres, , even without the use of an air-through oven). Used for the production of various articles, for example, support for furniture, boards for sound and/or roof insulation, in place of mineral wool.



CONTINOUS PRESS

Applications: ♦Compressing of polyester thermobonded webs, in blend with bico, to produce sound/thermal insulation boards and decorative felts ♦Compressing of webs made with cellulose + Bico, used under wooden floors, to prevent noise and to insulate from cement floors ♦Compressing of needle punched felt made in Kenaf+PP in order to facilitate the 3d forming process in automotive industry ♦Compressing of wood-fibers with BIco. This is used to produce medium density wood boards, without the use of an extremely expensive wood production line ♦Lamination of two or more felts without any chemicals, just using the fibers ♦Laminating of shoddy felt with a polyethylene foil, to produce a protective felt for painting ♦Smoothing of thermobonded product removing marks from the oven belts Equipping the machine with our powder\particles scattering unit, it is possible to transform any of your waste containing fusible fibers or fusible material into rigid boards that can then be used in various applications.



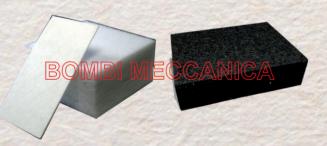
CONTINOUS PRESS: APPLICATIONS

Decoration & insulation









Rigid and printed boards







Natural, wood-like boards



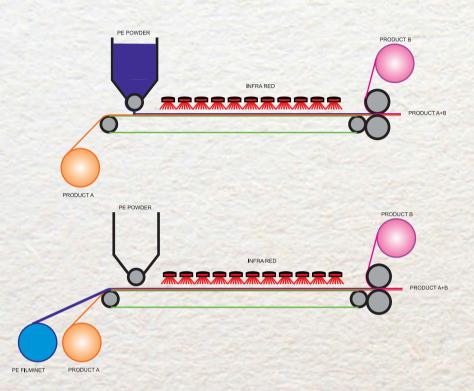






LAMINATION LINES

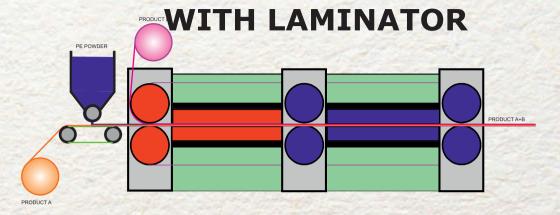
WITH INFRA RED LAMPS

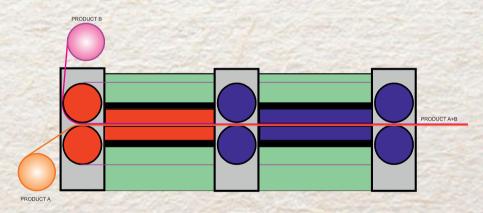


Line designed to laminate felts or fabric.

The powder of polyethylene is scattered onto the back of a nonwoven/fabric and then melted via infra red lamps. It then passes on a laminating calender, for definitive fixation.

Possible to use also PE net or film in the place of powder





The adding of a laminator or press ensure more effective bonding/gluing of the webs plus the possibility of calibration. Multiple layers are possible due to high heat transmission capacity of the press. Furthermore a rigid and stiff product could be easily made, setting the press parameters.

The laminating could be made also without PE powder, in case the webs are made with melting fibers.

LAMINATION LINES WITH PRESS

















WE ARE PRODUCERS OF:

- ♦ Hot Calenders for felt
- ♦Thermo bonding ovens for non woven
- ♦ Continous presses
- ♦ Perforated drums ovens
- ♦ Foam bonding lines
- **♦**Foam generators
- ♦ Foam applicators
- **♦**Cutting machines
- ♦ Pads Stackers





Via della Lora 38, Barberino del M.llo (FI) ITALY

Tel. ++39 055 8479351, Fax. ++39 055 8416402

Email: tancredi@bombimeccanica.com Website: http://www.bombimeccanica.com/



