

LABORATORY LINES

Small size equipment for research & teaching.



LABORATORY EQUIPMENT

TECHNOplants production lines are available in laboratory version for research and technical development, education or for the production of high value nonwovens in small lots, such as medical and pharmaceutical nonwovens, carbon fiber mats.

MAIN FEATURES

- Working widths from 200 to 1000 mm
- Web speeds up to 10 m/min
- Web formation with airlay and/or card and crosslapper
- Web bonding with needle loom or thermobonding oven
- Web pressing through laboratory pressing oven
- Compliance with cleanroom standards

APPLICATION FIELDS

- Universities and research centers
- R&D divisions
- Students and operators training
- Small volume, high value products
- Medical and pharmaceutical industry

TECHNICAL CENTER

Try and test all options available for the production of airlaid and airlay carded nonwovens.



TECHNICAL CENTER

At TECHNOplants' technical center clients can conduct trials and test all options available for the production of airlaid and airlay carded nonwovens, from staple fibers to natural or recycled fibers, as well as combinations thereof.

The technical center includes three pilot lines:

Two industrial scale pilot lines of working width 2.5 meters, where clients can verify the reliability of our machines and produce samples with their own raw material. The pilot lines include opening and blending section, complete airlay MULTILINE system, needle loom, thermobonding oven and end of line.

A third airlay line of working width 1.2 meters, suitable to test special fibers and develop innovative products and engineered materials.

 ITALY SINCE 1984

TECHNOplants
Nonwoven machines and complete lines

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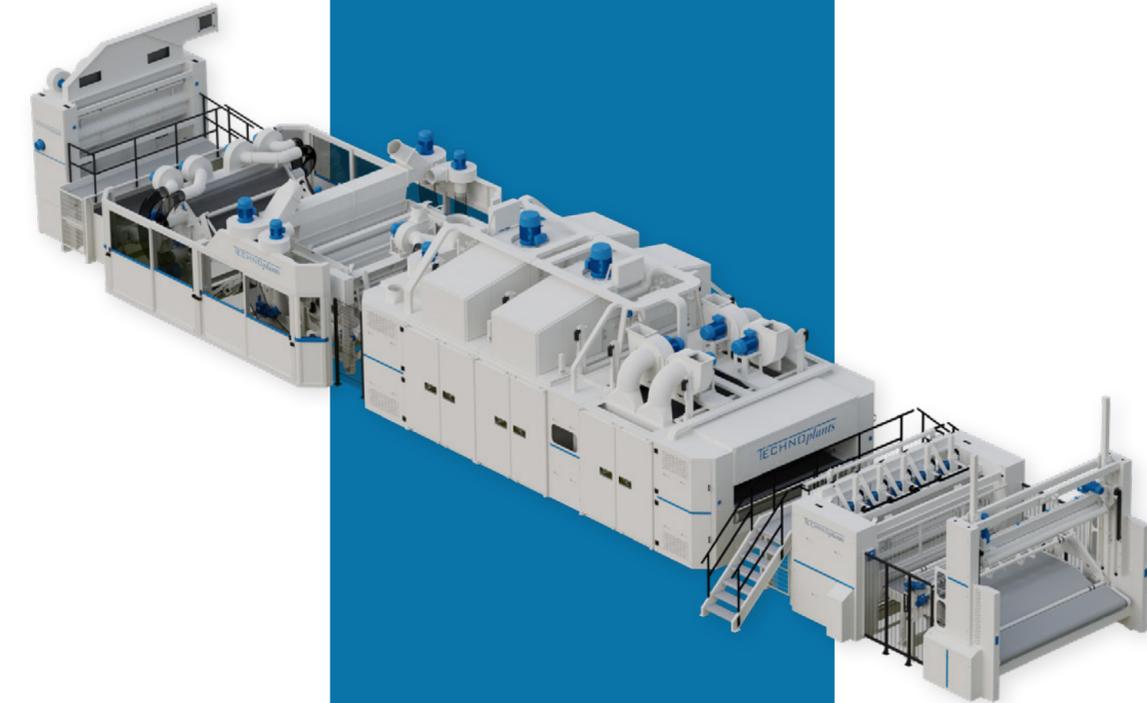
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COMPLETE AIRLAY LINES

Turn-key airlay lines for nonwoven production



 ITALY SINCE 1984



COMPLETE AIRLAY Lines

TECHNOplants is a supplier of leading-edge turn-key airlay lines for the nonwoven sector. The modular design of our patented MULTILINE airlay system allows to produce an impressive scope of nonwoven products, unmatched by any other airlay system on the market and ranging from 20 to 20,000 gsm.

An airlay line is the first and natural choice for processing recycled and waste fibers, coarse natural fibers, breakable mineral fibers and non-fibrous components such as resins, foam pieces, shredded cardboard, recycled leather.

At the same time our airlay lines are ideal for man-made fibers of any length and fineness, thanks to the carding modules of our MULTILINE airlay system.

TECHNOplants airlay lines compete with traditional nonwoven lines, such as card and crosslapper systems and direct carding systems, allowing to improve the line performances in terms of productivity and unique flexibility, combined with low investment, operation and maintenance costs.

TECHNOplants can take care of all the implementation stages of the airlay line - from design and engineering to start-up and production support - and guarantees the line quality and performances.

At TECHNOplants technical center customers have the possibility to verify the reliability of our technologies and to produce samples with their own raw materials.



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COMPLETE AIRLAY Lines

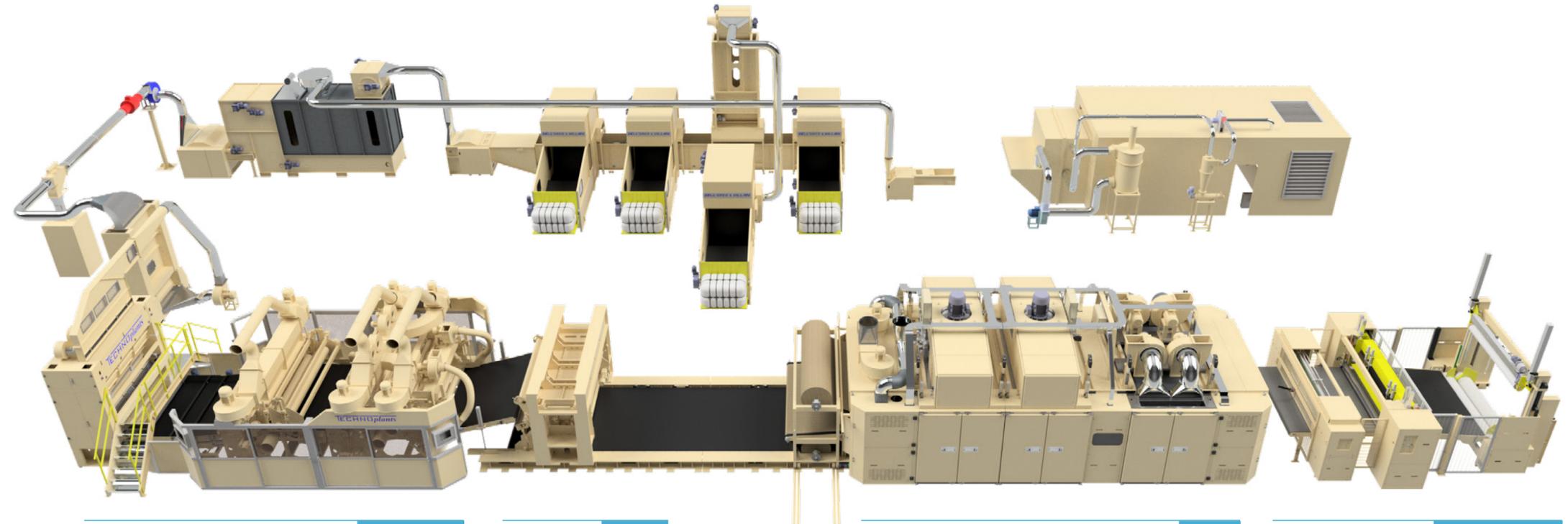


TYPE OF LINES

- Thermobonding
- Needle punching
- Chemical bonding
- Resin curing and semi-curing and combinations of all the above

OPENING&BLENDING LINE

CENTRALIZED FILTRATION



AIRLAYSystem MULTILINE

NEEDLE LOOM

THERMOBONDING OVEN

AUTOMATIC END OF LINE



FIBERS

- Man-made fibers (polyester, polypropylene, viscose, ...)
- Natural fibers (cotton, wool, hemp, flax, sisal, jute, wood, ...)
- Mineral fibers (carbon, glass, basalt, ...)
- Reclaimed textile wastes and shoddy fibers
- Any kind of recycled waste (leather, cardboard, cellulose, ...)
- Non-fibrous components (foam pieces, chips, plastics, ...)

ADVANTAGES

- Unique flexibility from 20 to 20,000 gsm
- High productivity up to 1000 kg/h/m (kg/h per meter of width)
- For process of synthetic, natural and recycled fibers, as well as non-fibrous materials. In the same line, without any mechanical adjustment
- Three-dimensional web structure: horizontal, vertical or isotropic
- Energy efficiency
- Easy cleaning and maintenance

SECTORS

- Mattresses and furniture
- Foam replacement
- Waddings and interlinings
- Automotive
- Building, decorative insulation
- Packaging insulation
- Filtration
- Abrasive
- Wood replacement
- Hygiene