

Division

Textiles



FELLESENWER



Tradition

History

Fleissner is an internationally operating, innovative and customer-oriented technology company committed to tradition. Founded in Asch/Bohemia in 1848, the company's headquarters have been located in Egelsbach near Frankfurt/Main since 1951.

Since December 2006, continuation of the company's successful history is ensured by its integration into family-owned Trützschler group, which also has a prominent position in international textile machinery construction.

Fleissner is the leading system supplier and machinery manufacturer for man-made fiber and nonwovens lines, finishing equipment for all natural and synthetic fibers including textile floor coverings and for heavy-duty dryers for tissue and filter papers.

It was in 1929 that Hans Fleissner obtained his first through-air dryer patent. The innovative strength of our textile department is further illustrated by continuous dyeing and printing lines for carpet delivered for the first time in 1968, and raw wool scouring lines and thermosol dyeing lines developed in 1969.

The latest highlights are Total Easy Care anti-felt finishing from 2001 and the TWIN dye liquor applicator from 2004.

Together with customers, suppliers and other cooperation partners from the industry and research sectors, we are working on new technologies, thus continuously adding to the know-how of our products, processes and systems.

In our modern technical center we can demonstrate the entire process from melt polymers to finished nonwoven rolls at operating conditions. In addition, various machines for finishing of textiles and nonwovens are available for trials.

The dialog with our customers will ensure continued success for both sides.



Vision

FLEISSNER

Textiles Line

Continuous Processing Lines

With its engineering innovations and using the latest findings of research, engineering and environmental technology, Fleissner has reached a leading position in the world market in the field of textile high-performance lines.

One third of the world's production of sheep wool is scoured gently on Fleissner wool scouring lines. Nearly half of all anti-felt finishing lines were built by Fleissner.

More than 45,000 perforated drum units of various designs have been delivered to customers in the textile industry worldwide, including both standard solutions and tailor-made systems to customers' requirements.

In addition to its own machinery and equipment, Fleissner today also supplies complete production lines incorporating technological and chemical know-how, and components from partner companies.

Loose stock fiber material

- Raw wool scouring lines
- Drying lines for bleached or dyed fiber material such as wool, cotton, synthetic fibers
- Complete bleaching and dyeing systems

Slivers and tow

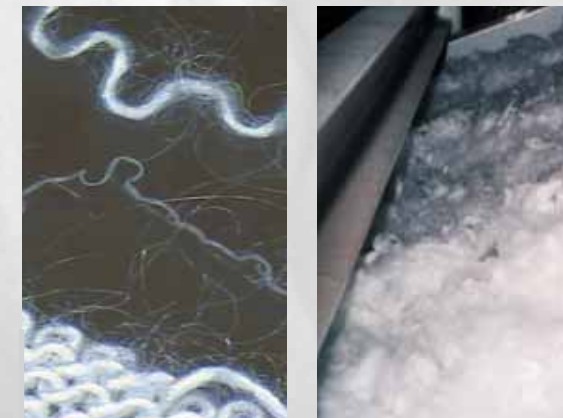
- Backwashers
- Anti-felt finishing lines
- Continuous dyeing lines
- Vigoureux printing lines

Woven and knit goods

- Perforated drum drying lines
- HT-SteamSet heatsetting lines for tubular goods
- Thermosol dyeing lines

Carpet

- Continuous dyeing lines
- Continuous printing lines
- Space-dyeing lines
- Latex-free bonding of carpet backings
- Impregnating lines and drying lines for needle felt floor coverings



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Raw Wool Scouring Line

Fleissner has set new standards in the wool industry with the development of the perforated drum raw wool scouring line.

The wool passes through the bowls without any relative movement with respect to transport elements as, for example, in conventional lines. It is transported instead on the surface of suction drums and penetrated by washing liquor during the process.

The same line components complemented by crushers and dedusters are used for wool carbonizing.

Main advantages:

- Gentle treatment
- No entanglement or felting
- Top yield increased by up to 3.5 %
- Staple length increased by up to 8 mm



Drying Line for Bleached/Dyed Fibers

Depending on the feeding type of the bleached or dyed fibers, a combination of cake opener, hopper feeder and wet opener is used as opening and feeding assembly.

The opened fibers are fed to the perforated drum dryer as a uniform web. When combined with a dye padder, steamer and suction drum washing machine, the drying line can be turned into a continuous dyeing line.

Main advantages:

- Gentle and thorough fiber opening
- Uniform drying
- High specific drying rates



Backwasher, Washing and Drying Line for Slivers and Tow

Slivers of wool or synthetic fibers are treated on a backwasher after discontinuous dyeing or Vigoureux printing.

Unfixed dyestuff and auxiliary agents are washed out in the washing line to achieve optimum fastness values. The perforated drum dryer is used for energy-saving and gentle drying.

When combined with dye padder and steamer, the backwasher can be used as continuous dyeing line.

Main advantages:

- Excellent washing results due to the use of suction drums
- Uniform drying effect and high specific drying rates
- No intermingling of fibers by air flow



Anti-Felt Finishing of Wool Tops

Anti-felt finishing of wool allows production of knit goods and apparel that can be washed in household washing machines without felting.

Fleissner supplies equipment for various anti-felt systems such as the chlorine-resin process, Dylan, Basolan and newly developed total Easy Care System-2.

Main advantages:

- 2-step chlorination (System-2) for maximum chlorination uniformity
- Suction drum principle ensures uniform neutralization and resin application
- Prepared for Soft Lustre treatment
- Uniform drying and resin curing



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Fibers
Wool

Line

Thermosol Line

In the 1960s, Fleissner developed, together with former Farbwerke Hoechst/Cassella, the perforated drum thermosol line for dyeing of polyester/cotton and polyester/viscose blends.

The process and machine concept of this line makes it ideally suitable for dyeing 100% polyester.

Main advantages:

- Extremely short heating-up periods of only 1-1.5 sec
- High temperature uniformity of max. +/- 1.5 °C over the width at 230 °C
- No edge-to-edge, edge-to-center or longitudinal shading



HT-SteamSet Heatsetting Line

Elastanes such as Lycra® (Invista) and Dorlastan® (Bayer) are increasingly used in the knit goods industry to obtain higher elasticity and improved wear performance for certain fabrics. The same applies to other fibers (e.g. polyester or polyamide) that can be heatset.

Fleissner has developed a line on the basis of the perforated drum dryer that sets new technological standards.

Main advantages:

- No edge marks
- No embrittlement or yellowing
- Reduced crease formation during bleaching or dyeing
- The twisting effect of fabrics containing elastane is avoided



Carpet Finishing Lines

Textile floor coverings for increased living comfort are preferred products over wooden, stone or ceramic floors.

Fleissner supplies both complete continuous lines for dyeing and printing of tufting carpets and equipment for modernization of existing lines.

The delivery program is completed by bonding lines for needle felt carpets.

Together with dyestuff suppliers and customers, we are constantly working on new processes and techniques.



Main advantages:

- Dye liquor application without pile contact to the pouring principle
- Automatic rapid color change for minimum transition lengths
- Optimum temperature distribution over length, width and height of steamer ensuring absolutely uniform dyeing
- Two or three stage washing tower for thorough wash-off at a minimum water consumption
- Circular stenter of new design for evaporation rates of approx. 100 kg water/hour per m² of covered drum surface



Textiles

Carpet

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Nonwovens Textiles Man-Made Fibers Paper & Tissue

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