

JeTex[®]

Jetting first class



Air-texturizing system for textile & industrial applications

JeTex® – creates effects that affect

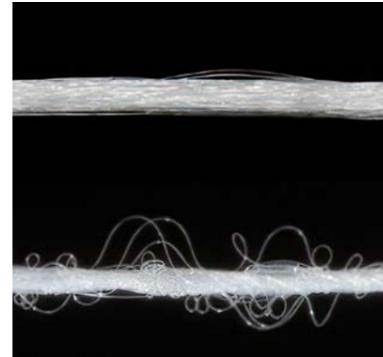
JeTex® is a production line for high-quality air-textured yarn (ATY). In air-texturizing, cold air stream is used to produce bulked yarns of low elongation. By treating the feed yarn with the help of nozzles millions of small loops are created that contribute to the bulk and loft of the fabric and offer a natural, cotton-like look and feel.

Our line combines an innovative texturizing process by BB Engineering as key component with state-of-the-art components by Barmag and Heberlein to ensure fast production speed, the desired effects and the quality of your product. It offers a wide range of production volume, processable feedstocks and applications, both textile and industrial. At the same time, it guarantees an energy- and cost-efficient production.

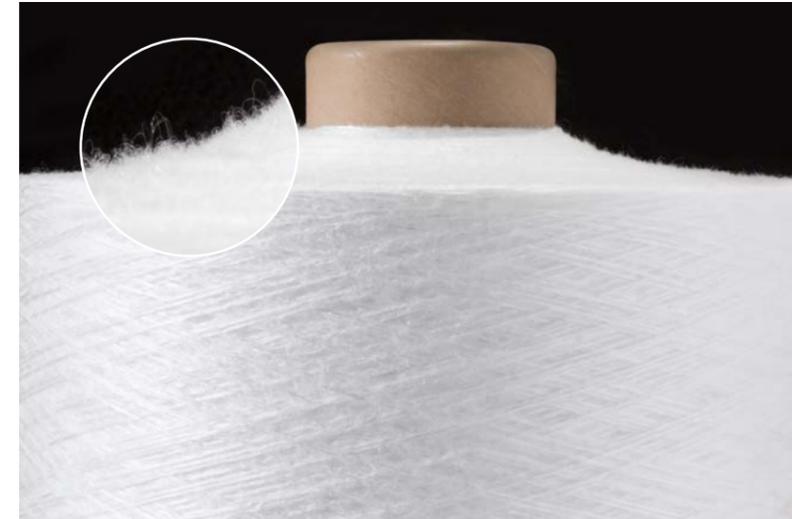
Benefits: Efficient in every respect

JeTex® is designed for cost-efficient production of high-quality air-texturized yarn. That means: High production speed combined with low energy consumption and the permanent focus on your product's quality through gentle yarn treatment and an optimized yarn path.

- ✔ Low OPEX
- ✔ Highest product quality
- ✔ Versatile process



Synthetic yarn before and after texturizing.



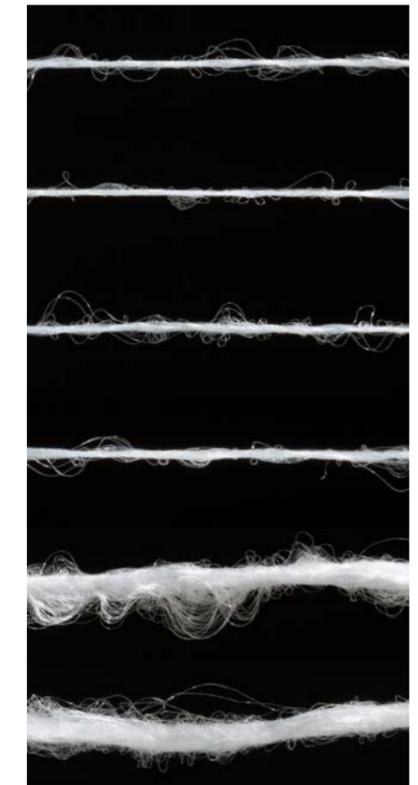
Effects & applications

In the air-texturizing principle of JeTex®, the filaments of the “effect yarn”, loop around and interlace with the filaments of the „core yarn”. The result is a voluminous, bulky yarn with a firmly locked structure.

Air-texturizing is a very versatile method to texture yarn. There is a broad range of both feed yarn and resulting effects. The loop formation created by JeTex® can be designed in various ways. By using different feed stock, nozzles, or adapting process parameters such as speed, air pressure and temperature, the intensity, size, uniformity and stability of the loops are influenced. Also, the mixture of core and effect colors to achieve a mélange effect is possible.

The wide range of feed material and effects result in a variety of applications.

- Apparel e.g. fashion, underwear, sports, accessories, sneakers
- Home furnishing e.g. upholstery, carpets, blankets, curtains
- Technical e.g. carpet backing, sewing thread



Different JeTex® process settings lead to a wide variety of effects.



Technology overview

JeTex®'s technology is focused on the quality of your product while maintaining cost efficiency. We achieve this through high-quality components from leading suppliers such as Barmag and Heberlein and, of course, our innovative in-house development and core component, the texturizing system.

JeTex® is a versatile system that we customize to your needs:

- System size and production volume
- Feed material and titer
- Final titer and texturizing effect
- Independently operating A and B side

1 Godet feed system

2 Texturizing box

3 Mechanical stabilization

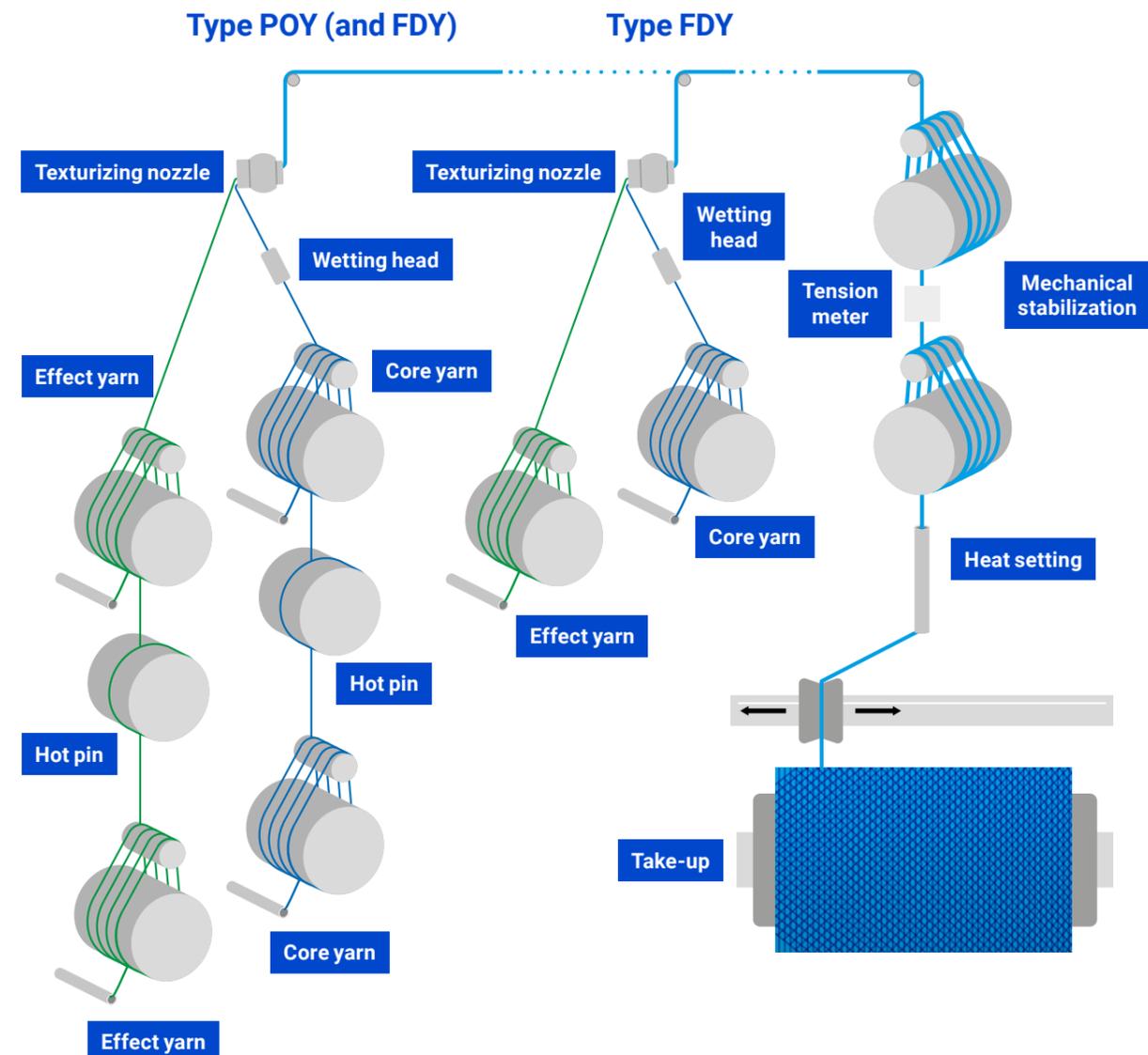
4 Heat setting (lagging behind)

5 Take-up



Technical data	
Feedstock	POY and FDY made of PET, PA6, PA6.6, PP and others
Titer range of feedstock	POY: 30 – 300 den single yarn end FDY: 30 – 600 den single yarn end (for both core and effect filament)
Titer range final	30 – 720 den (POY feed) 30 – 1600 den (FDY feed)
Max. mechanical speed	1200 m/min at overfeed godets (depending on product, jet type and feed/supply yarn quality)
Layout / no. of positions double-sided (A and B)	24 – 384 Either side can operate independently in different conditions

Yarn path variants



Main features

Texturizing system

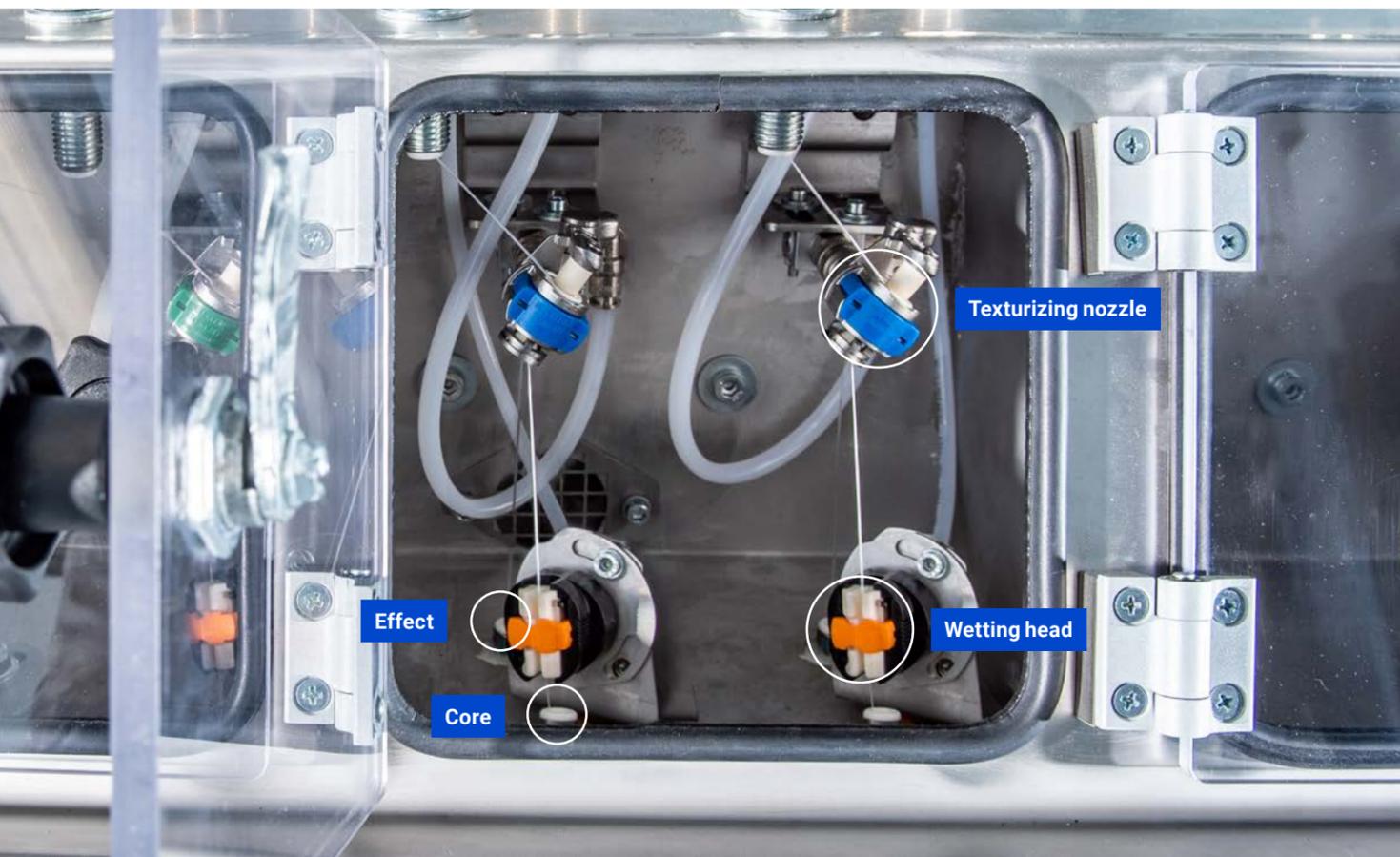
The core component of JeTex®

Our innovative texturizing system is the heart of JeTex®. The intelligent design offers many advantages. The most important: To achieve convincing results, we use high-quality components from Heberlein in our jet box.

In addition to the jet box, the water supply and the suction device are part of our texturizing system.

Benefits:

- Compact design: More positions with less space required
- Nozzles by Heberlein: state-of-the art technology with top performance, easy handling and a variety of models for specific texturizing effects
- Wetting head by Heberlein: Optimal wetting of the filaments, robust and reliable.
- Optimized yarn path: Reduced friction due to guide rollers
- Efficient fume suction: Stabilizing the process
- Easy to retrofit on Barmag DTY systems



Large rotary creel

For non-stop material feeding

The Jumbo Rotary Creel 3+3 by Barmag holds 48 supply packages (24 core + 24 effect, max. Ø 435 mm) and operates non-stop – one package is in operation and one on hold for replenishment. That makes it very efficient.

- Large capacity
- Non-stop operation
- Low operating effort



Godet feed system

Gentle treatment for high-quality yarn

We use the godet feed system by Barmag. Feeding via godets offers some advantages compared to shafts.

- Regarding, fine denier products, higher yarn quality and extended yarn evenness over time
- Abrasive products like full dull or spun-dyed yarn, that usually wear down components fast, are processed with higher efficiency and at lower production cost
- Higher consistency over package run time and from position to position
- Lower energy consumption



Take-up solutions

Basis for successful downstream processing

Our 3 deck take-up is preferably equipped with ATT „Advanced Take-up Technology“ by Barmag. This high-end solution offers highest flexibility regarding package geometry.

- Max. take-up package Ø: 250 mm
- Basic traverse stroke length: 250 – 273 mm
- Winding of taper-ended packages with nominal taper angles of 65° – 90°
- Max. double strokes per minute: < 750

Alternatively, we offer Barmag's camshaft take-up. The whole take-up step is controlled by eFK control system by Barmag.



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JeTex®
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