

A detailed close-up photograph of industrial machinery, likely a textile spinning machine. The image shows a series of metallic rollers and pulleys arranged vertically, connected by black belts. The machinery is made of polished metal, possibly aluminum or stainless steel, and is set against a blurred background of more industrial components. The lighting is bright, highlighting the metallic surfaces and the texture of the belts.

**BARMAG**

# POY 2.0

The future of  
POY spinning

- Reduced energy consumption
- Automated string-up for even more efficiency
- Best-in-class yarn quality

In the beginning, there was the melt. This will remain unchanged in the future. Every day, we work to optimize the process that transforms the melt into a first-class filament.

## The result: POY 2.0.

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### DIO spin pack: The next generation

The spin pack is the origin of the filament. Here, the melt is pressed through micro-fine openings and comes out as filament. The challenge: absolute uniformity of the filaments.

The key factors that make up this highly complex spinning component are flow behavior and filter performance. We have further optimized the excellent rheology typical of DIO.

In addition, we have made the new generation of spin pack significantly more compact. First of all: the filter performance remains the same! Benefit: the amount of filter sand required is reduced by a third per spin pack, and the weight is **reduced by more than 30%**. This minimizes consumables and streamlines operator handling.

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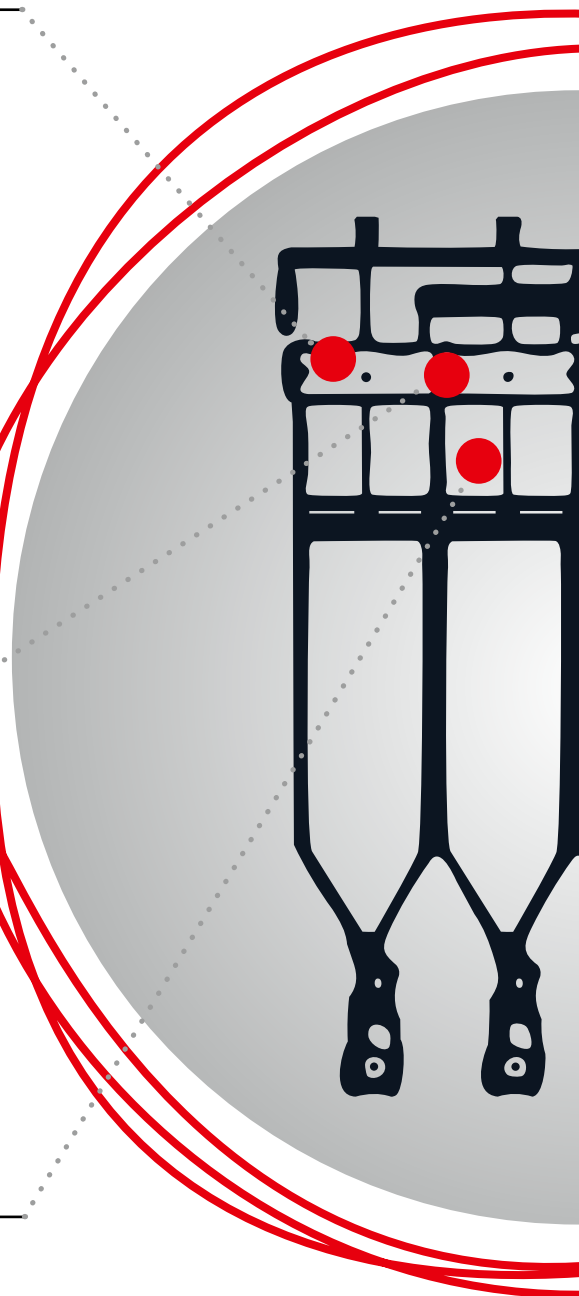
### Spin beam SP8x

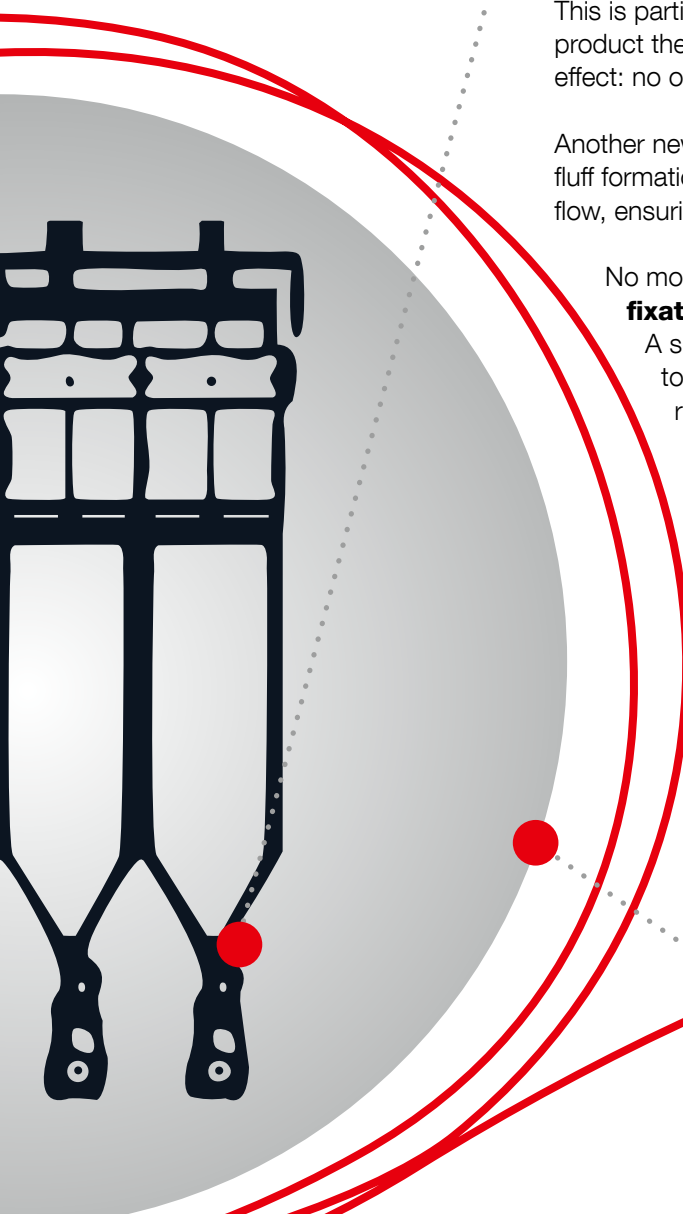
The more compact spin pack enables an adjusted spin beam design, reducing surface area and achieving **energy savings of up to 10%**.

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### EvoQuench 2.0

Consistency is also essential in quenching. Absolutely identical air conditions for all filament bundles are a must. The bonus: the convergence length can be adjusted more easily with the new generation of EvoQuench radial quenching unit, and the adjustment elements are easier to reach. This proves beneficial through easier handling, faster setup, and reduced waste.





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## WINGS 2.0

The heart of the spinning plant of the future: WINGS POY 2.0. This new take-up system features automated string-up. On the one hand, this keeps string-up time consistently short, thus reducing waste production, and on the other hand, fewer skilled personnel are required at the take-up level.

The **active quick returns** make it easier to change product-specific settings. This is particularly beneficial for manufacturers who frequently change the yarn product they are spinning and want to run demanding products. A nice side effect: no overthrown yarn ends and an even better bobbin formation.

Another new feature is the **additional shielding**. This effectively eliminates fluff formation once and for all. The shielding gently guides the thread and the air flow, ensuring that the thread stays where it belongs: on the bobbin.

No more loose yarn ends in bobbin handling? With the new **yarn end fixation**, yarn manufacturers can look forward to top quality packages. A significant advantage is that the yarn ends remain securely attached to the bobbin during bobbin handling and transport. Likewise, material transport system stoppages due to faulty sensor signals caused by loose yarn ends are a thing of the past. The **XPT housing** with a larger rotor stroke extends the parking time, thereby making the doffing process more flexible. Another plus in terms of sustainability: the system runs continuously and is more productive due to significantly fewer forced winder stops.

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## atmos.io

POY 2.0 is embedded in the atmos.io system world. This gives you an overview of your production at all times via a variety of useful apps. You monitor the entire journey of your polymer from melt to yarn, have insight into the quality parameters at all times, and can intervene quickly if necessary. What does this mean? The fully networked factory ensures less waste, better quality, and higher margins for your end products. Claim your place in the future of POY production.



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