

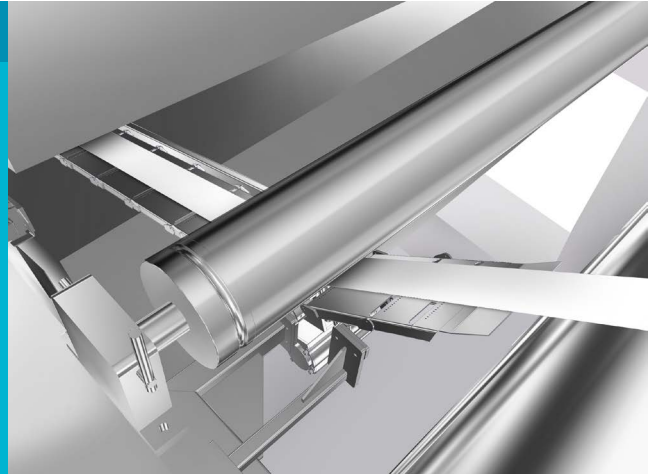
Valmet Tail Shooter Plate

Low-friction tail threading unit

The positive effects of fully automatic Valmet Tail Shooter Plate* tail threading solution are clearly visible through shorter tail threading and sheet break times as well as improved operator and mechanical safety.

Benefits

- Shorter tail threading and sheet break times
- Minimal tail threading waste
- No loss of production time due to rope changes
- No rope costs
- Strong contact with the tail without ropes
- No moving parts



Low-friction tail threading

The ropeless, low-friction Valmet Tail Shooter Plate tail threading unit has been specially developed for open draws in reels and calenders. In these challenging positions, the tail is now carried automatically onward by tail threading plates.

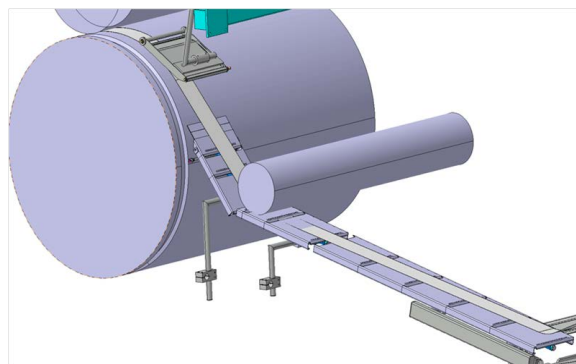
The operation of these plates is based on revolutionary frictionless nozzle technology that features the well-known Coanda effect, which has been patented by Valmet. Compared with traditional technology, the draw capacity of tail shooter plate nozzles is enormous compared to traditional nozzles. A vacuum with an adjustable level is produced by using compressed air.

Thanks to the new nozzle technology, the success

of tail threading is not sensitive to the basis weight, tail width or speed.

Total tail control

The smooth surface of Valmet Tail Shooter Plate significantly lowers friction compared with the step-shaped structure found in traditional tail threading plates. In the new solution, the tail has controlled contact with the plate, even in situations where the tail threading distance is long. There is no tail flapping after the plates, and the tail also retains its flat shape. Additionally, there is less disturbing air drifting with the tail.



*earlier known as BlowForce

A ropeless solution means improved safety

Valmet's automated and ropeless tail threading solutions provide total tail control throughout the machine line. This results in improved operator safety as all threading is carried out without manual operator involvement - there are no ropes to cause accidents.

The absence of ropes also improves mechanical safety as there is less dryer fabric damage caused by tail threading waste. There is also no risk to the rolls or other equipment.

Case: Improved machine efficiency through better tail threading

A European mill producing uncoated woodfree paper was looking for ways to improve machine efficiency by reducing break times. It also wanted to improve tail threading through a system upgrade to get rid of ropes.

The targets were reached by applying Valmet's frictionless nozzle technology to tail threading at all open draws at the size press and after the dryer section.

- Ropeless size press with Valmet Tail Threading Belt and Valmet Tail Shooter Plate
- Ropeless after dryer
 - Slalom with Valmet Dryer Tail Vac Roll and double-felted with Valmet Tail Threading Double Fabric
- Ropeless two-nip soft calander with new Valmet Tail Shooter Plate