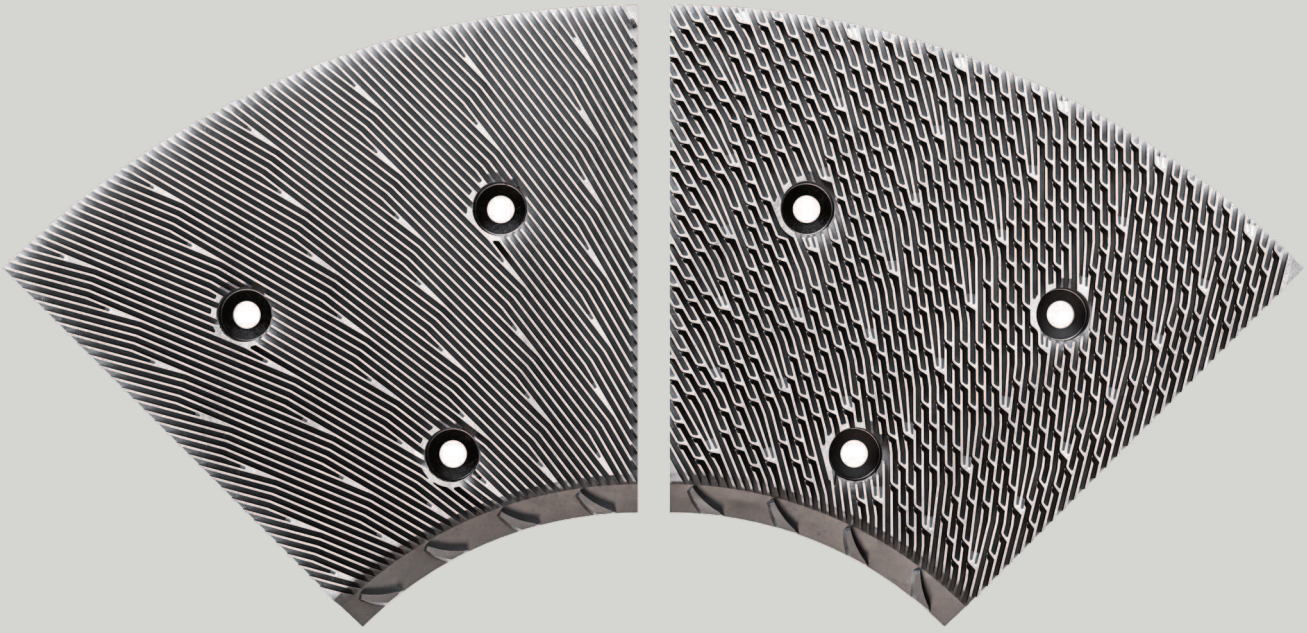
VOITH

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> PRODUCT SHEET

PluraMaze

Best energy efficiency or lifetime for your refiner

Voith's PluraMaze represents a new generation of refiner fillings designed to improve energy efficiency, component lifetime or refining results in stock preparation. PluraMaze combines a labyrinth-like stator with an optimized Y-bar rotor to reduce hydraulic losses and improve energy efficiency. It is designed for customers who need measurable cost reduction without compromising fiber treatment quality.

Your benefits with PluraMaze

>25%

> lower no-load power

up to 40%

> longer lifetime through increased bar height with PluraMaze 6.5

Lower TCO

> Reduced refining costs through energy savings and longer replacement intervals

... compared to Voith's leading and well-known Pluralis technology.

Technology differentiators

> CFD-optimized flow channels support energy-efficient operation.
> Labyrinth stator interrupts backflow, reducing unnecessary reprocessing.
> Optimized rotor design increases cutting length factor.
> Robust geometry protects critical areas against contaminant-related damage.

Customer value

The CFD-optimized design helps mills achieve desired refining results with lower idle power and a stronger total cost of ownership (TCO) position.

> Reduce no-load/idle power demand.
> Cost savings through more efficient refiner operation.
> Maintain or improve target refining results.
> Reduced risk for filling damage.

PluraMaze product portfolio

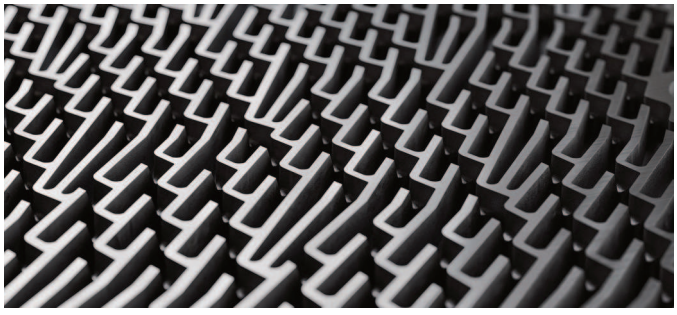
Three designs cover different priorities: technology, energy efficiency and lifetime. Selection depends on fiber type, refiner limits and customer value target.

Design	Pulp / Furnish	Technology	Energy efficiency	Lifetime	Typical value focus
5.3	Long fiber	++	++	0	Up to 30% no-load savings* High energy efficiency *vs. Pluralis LF.
5.6	OCC	++	++	0	Up to 30% no-load savings plus approx. 20% cutting edge length vs. Pluralis AO.
6.5	OCC	0	+	++	Best lifetime focus with approx. 25% no-load savings and up to 40% lifetime vs. Pluralis AO.

Y/Y variants (combination of Y-bar design on rotor and stator) will increase bar length (cutting length factor) on the filling about +15% on the reduction of no-load power savings reduction to 5-10%.



Y-bar design on rotor



Labyrinth design on stator

Applicable refiner platforms

> Voith TwinFlo, DSR and SDM double-disc refiners.
> Valmet DoubleDisk DD and related Beloit/GL&V platforms.
> Andritz TwinFlo and ASB; Kadant THD; Aikawa AW.
> Suitable for common double-disc refiner installations.

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