



PANELBOARD

QUANTUM REFINER PLATE TECHNOLOGY

IMPROVED FIBER QUALITY WITH
LOW ENERGY CONSUMPTION

ANDRITZ

ENGINEERED SUCCESS

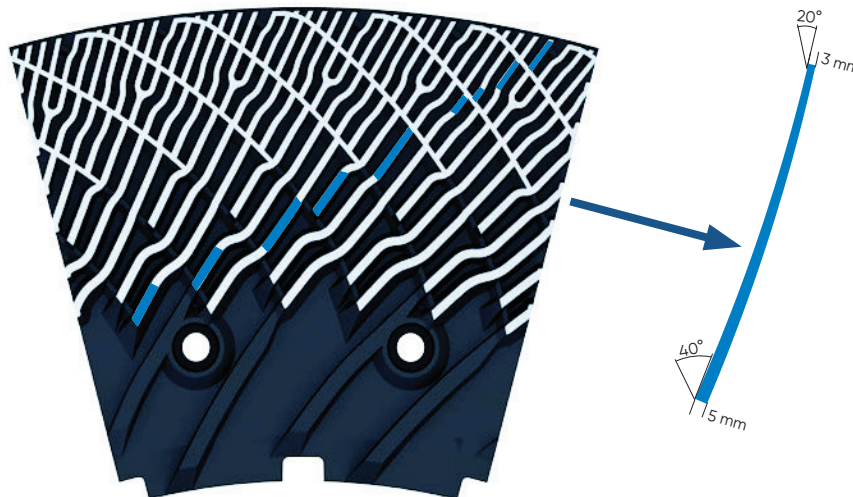
A new era in MDF refining

Perfect results with an ideal open area

QUANTUM TECHNOLOGY

All bars follow the same basic shape, and are arrayed with variable spacing in between the dams. Varying the distance between the bars, the open area at each radial position of the plate can be optimized. The bar width decreases towards the plate periphery, which ensures a very solid inlet and the possibility of having much finer patterns at the outer diameter. The very open inlet, together with the high bar angles at the beginning of the refining zone guarantee a very energy-efficient pre-treatment and transport into the main refining zone.

Due to narrower grooves and a very high number of bars with lower bar angle at the outer diameter, less shives can escape untreated. These design parameters also ensure that the gap doesn't get too tight, thus preventing high bulk densities caused by dusty fiber.

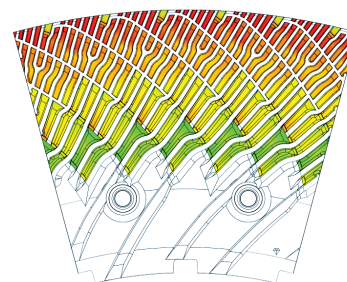


Quantum refiner plate with improved bar features

- Continuously increased bar width towards the inlet of the refining zone
 - contaminants can be destroyed at the inlet without causing too much damage
- Due to narrower widths at the OD a higher bar concentration can be achieved
 - Very good fiber qualities can be expected

BENEFITS

- Perfectly smooth performance
- Ideal radial dam distribution
- Perfectly adaptable to all applications
- Less vulnerable to bar breakage
- Very efficient refining process



Open area of the Quantum refiner plate

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