



QUANTUM REFINER PLATES

Setting new standards in the
panelboard industry

ANDRITZ

Quantum technology

Over the last decade Quantum refiner plate design and performance have evolved to become the Gold standard in the MDF Industry.

This success is based on very simple design principles:

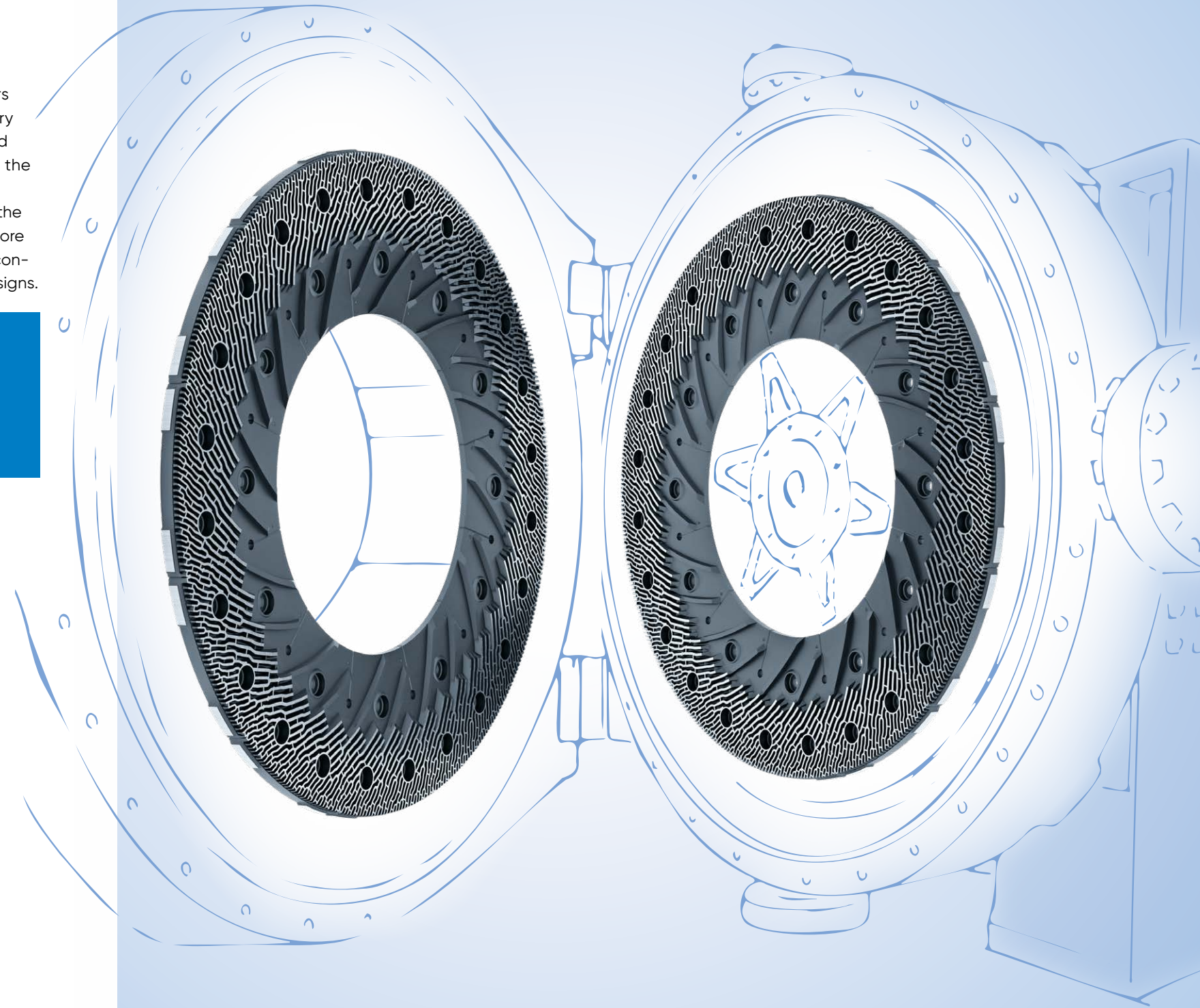
- All bars follow the same basic shape and are arrayed with variable spacing in between the dams.
- Bars and grooves are dimensioned to perfectly fit the size of the wood material on its way through the refiner plate.
- A very open entry of the refining zone together with high bar angles guarantees a very energy-efficient pre-treatment and transport of wood material into the main refining zone.
- Variable distance between the bars allows for an easy optimization of the open area at each radial position of the refiner plate.
- Decreasing bar width towards the refiner plate periphery ensures a very solid inlet and the possibility of having much finer bar configuration at the outer diameter.

- Narrower grooves and a very high number of bars with lower bar angle at the refiner plate periphery create an optimized fiber pad between rotor and stator, preventing plate clashing and resulting in the best shive and dust control.
- All design parameters combined help to maintain the optimal fiber pad in the plate gap, resulting in a more homogenous fiber at same lower specific energy consumption compared with previous refiner plate designs.

BENEFITS

- Perfectly smooth performance
- Very energy efficient refining process
- Perfectly adaptable to all applications
- Less vulnerable to bar breakage

ANDRITZ Quantum
refiner plate with
improved bar features





FIND OUT THE BEST SOLUTIONS FOR YOUR REFINING NEEDS: PLEASE CONTACT YOUR REGIONAL KEY ACCOUNT MANAGER.

We will take up your challenges! For more information about ANDRITZ's services, please visit andritz.com/refiner-plates for details.

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