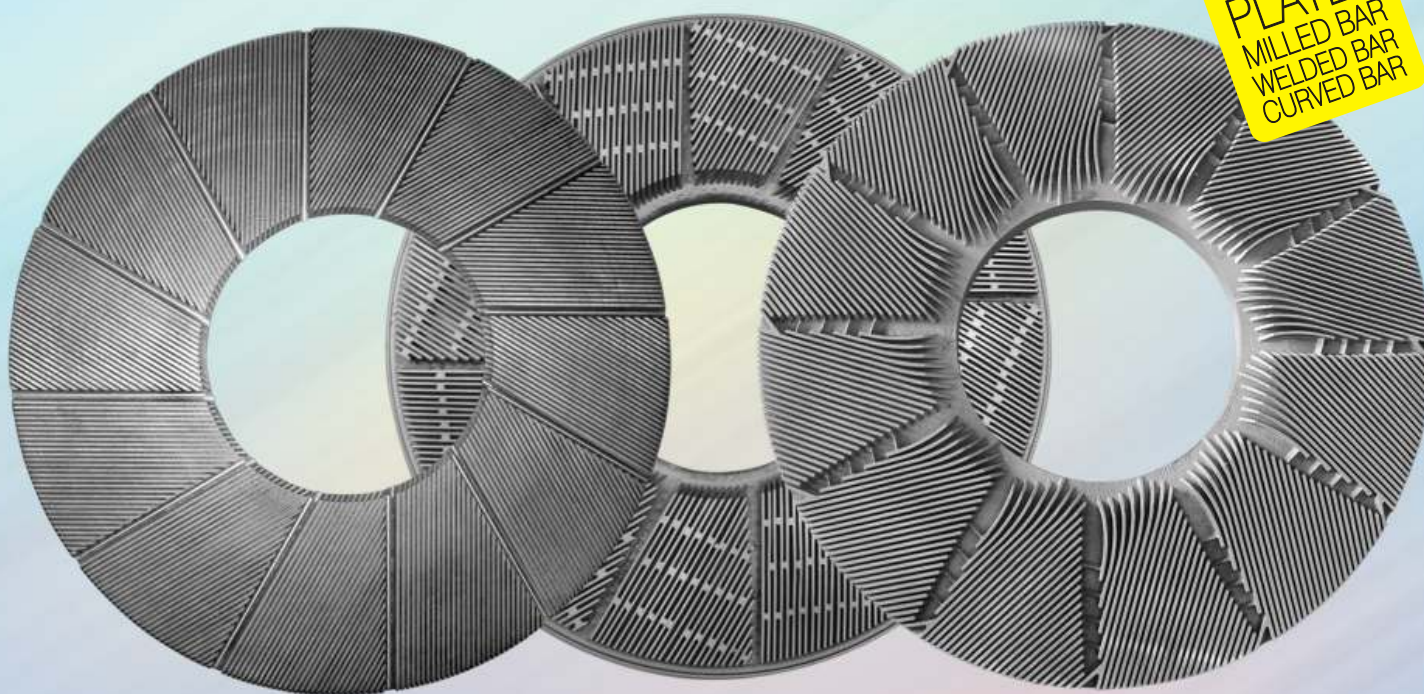


# PARASON Finedge Refiner Plates

For Optimizing Refining Result



PARASON MANUFACTURE THE FINEDGE PLATES WITH DIFFERENT TECHNOLOGIES, TO HAVE A WIDE RANGE OF SELECTION FOR PAPER MILLS.



## USER'S REQUIREMENT

- Strength development of fibre
- Optimization of product properties
- Reduction in raw material cost
- Reduction in energy consumption

## OUR SOLUTION THROUGH

- Narrow bar width upto 1.6 mm
- Higher cutting edge lengths (CEL)
- Lower specific edge load (SEL)
- Gentle refining for optimizing fibre development
- Simple to adopt in existing refiners

## USER'S BENEFITS

- Increase pulp strength
- Increase bulk
- Reduce picking
- Better runability
- Lowering raw material costs
- Saving in energy costs



## PARASON FINEDGE MILLED BAR – REFINER PLATES



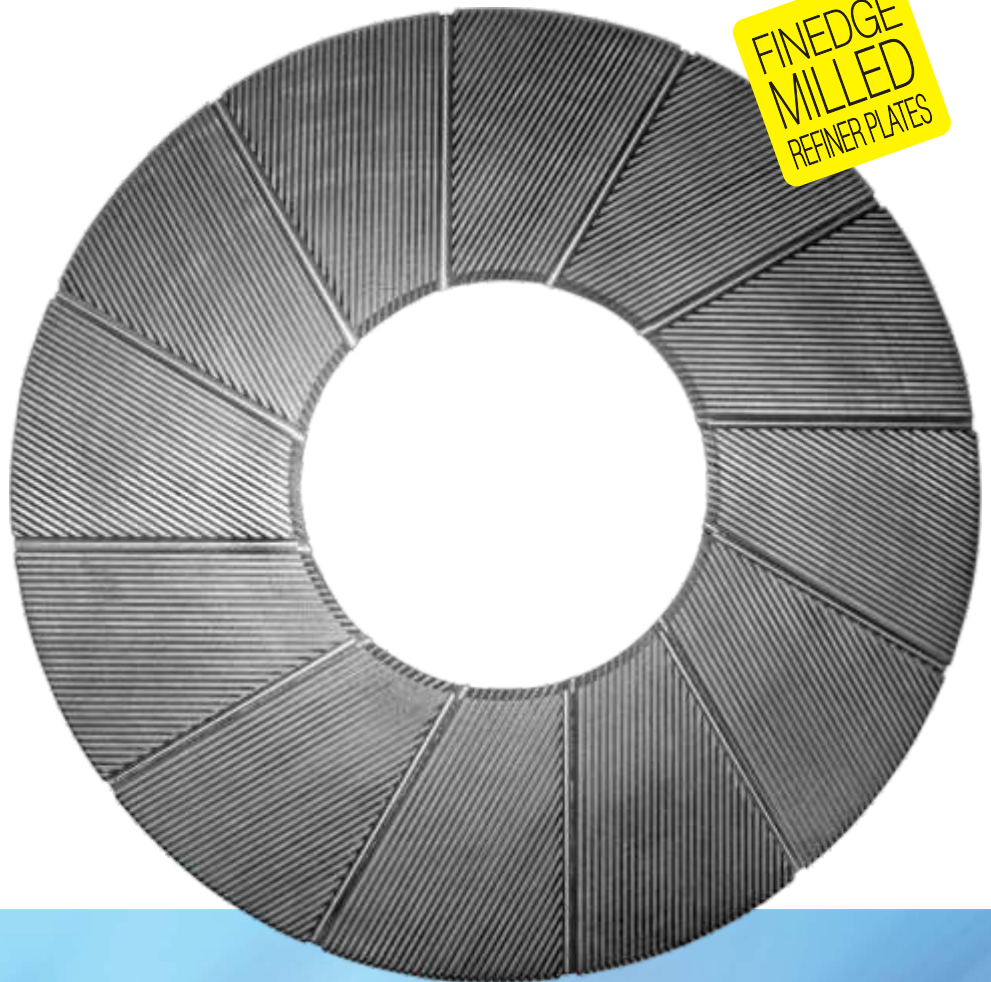
4 Axis CNC Machining center for Mfg. fillings of various applications. Ref. Chart.

**PARASON** Finedge Milled Bar refiner plates are manufactured using CNC technology to provide the maximum uniformity in the refining zone.

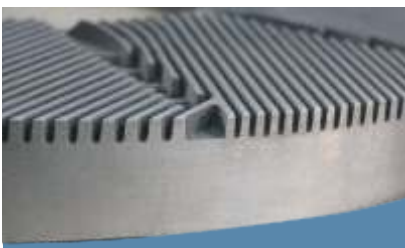
**PARASON** milled blanks are cast in own foundry as a solid piece to provide uniform hardness throughout. The plates will wear uniformly over time, and with the zero draft angle on the bar, hydraulics are maintained longer.

The **PARASON** precision CNC Milling manufacturing process provides accurate groove width, which allows finer bar to optimize low intensity applications. Plates life is also maximized by re-grooving which allows 2-3 life cycles.

**FINEDGE  
MILLED  
REFINER PLATES**



Zero draft angle



Recut groove's possible

### Special Features:

- Narrow bar width
- Bar width range 1.6 mm, 2.0mm, 2.25mm, 2.5mm onwards
- High Cutting Edge Length (CEL)
- Zero draft angle on the bar
- High life ( Re-cutting possible)
- Special metallurgy (17/4 PH)

### Benefits:

- Low Specific Edge Load (SEL)
- Good fibrillation – consistent fiber treatment
- Constant throughput
- **Suitable for Hard Wood, TMP, Non-wood fibers (Cotton) & Recycled Fiber**

# PARASON FINEDGE WELDED BAR – REFINER PLATES



Laser Machining Center



Utilizes the AX-C robot controller for fast communication and improved robot movement control.

Zero draft angle



More bar height

**PARASON** Finedge Welded Bar refiner plates are manufactured using Special Casting & Robot Welding, CNC technology to provide the maximum uniformity in the refining zone.

**PARASON** Finedge Welded Refiner Plates are cast in own foundry to provide uniform hardness throughout and Welded with Special Welding Technology. The plates will wear uniformly over time, and with the zero draft angle on the bar, with high Bar height, with minimum bar width, hydraulics are maintained longer.

The **PARASON** precision Special Cast, Laser & Welding, manufacturing process minimizes groove width variations, which allows finer bar to optimize low intensity applications. Plates life is maximized due to high bar height able to maintain in this technology.



## Special Features:

- Narrow bar width from 1.6mm
- Bar width range 1.6 mm, 2.0mm, 2.5mm
- High Cutting Edge Length (CEL)
- Zero draft angle on the bar.
- More bar height - More life
- Special metallurgy

## Benefits:

- Low Specific Edge Load (SEL)
- Good fibrillation – consistent fiber treatment
- Constant throughput
- **Suitable for Hard Wood & Recycled Fiber**



## PARASON FINEDGE CURVED BAR – REFINER PLATES

**PARASON** Finedge Curved Bar refiner plates are manufactured using Special Casting & CNC technology to provide the maximum uniformity in the refining zone.

**PARASON** Finedge Curved Bar refiner plates are special cast in own foundry to provide uniform hardness throughout. The plates will wear uniformly over time and having a longer bar length. The flow of pulp follows the grooves between the bars results in longer residence time. Thus, the result of Finedge Curved bars is more gentle refining action which continuous over a longer time. Curving the refiner bars causes them to function better as a pump. The half dams between sectors further improve the pulp residence time resulting into improved refining.

The **PARASON** precision Special Casting & CNC manufacturing process provides accurate groove width, which allows finer bar to optimize low intensity applications.

Half dam in the vallies between sectors



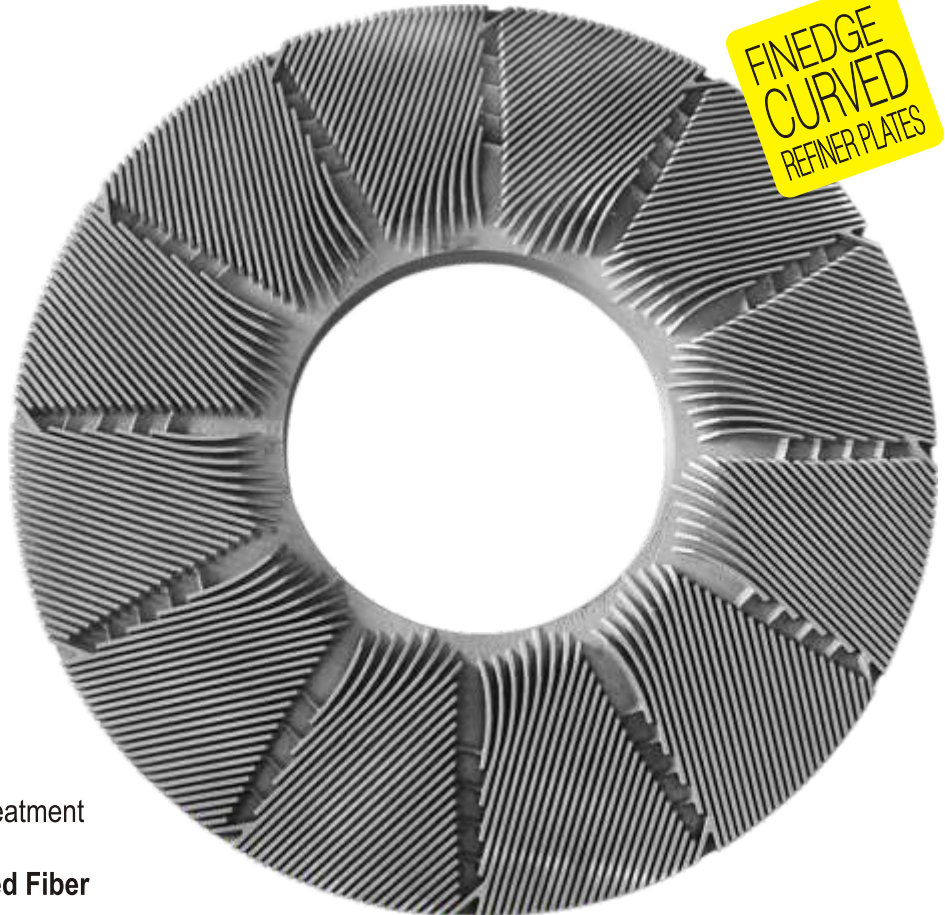
Curved bar at entry

### Special Features :

- Longer pulp residence time
- High Cutting Edge Length (CEL)
- Finedge Curved bars function better as a Pump.
- Suitable for Hard Wood & Recycled Fiber
- Special metallurgy

### Benefits :

- Finedge Curved bars – more gentle refining action
- Low Specific Edge Load (SEL)
- Good fibrillation – consistent fiber treatment
- More throughput
- **Suitable for Hard Wood & Recycled Fiber**



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