



**PARASON**

[www.parason.com](http://www.parason.com)

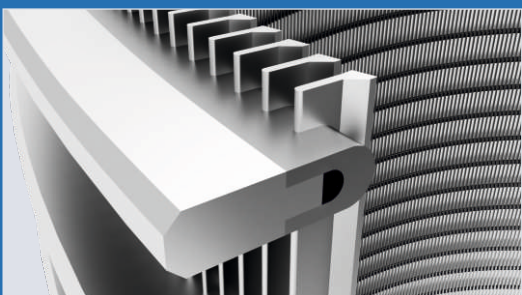


**PRECISE &  
PROVEN**

# SCREEN BASKETS

**OPTIMIZED SCREENING SOLUTIONS**

For Efficient Cleaning with Reduced Energy Consumption



*Engineered Trust*

# HIGH CAPACITY LOW ENERGY

## INNOVATIVE DESIGN:

Parason's manufacturing standards are the most stringent in the industry. Screen baskets are extremely durable and have high resistance to abrasion, corrosion, and impact damage.

The flexibility of the process allows to manufacture custom made Screen baskets for all types of applications of new plants, expansions, or upgrades.

- Custom designed and engineered
- Long lasting
- Low maintenance
- Affordable cost



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22/10/2019

#### TO WHOM IT MAY CONCERN

We hereby inform that M/s Parason Machinery India Pvt Ltd, Aurangabad, Maharashtra had supplied the Screen basket for our METSO Screen Model DC 10 as per our order. We had installed it in our pulp mill and found giving satisfactory performance. The performance of their basket was at par with imported baskets and repeat order was placed on them.

Thanking you

Best regards

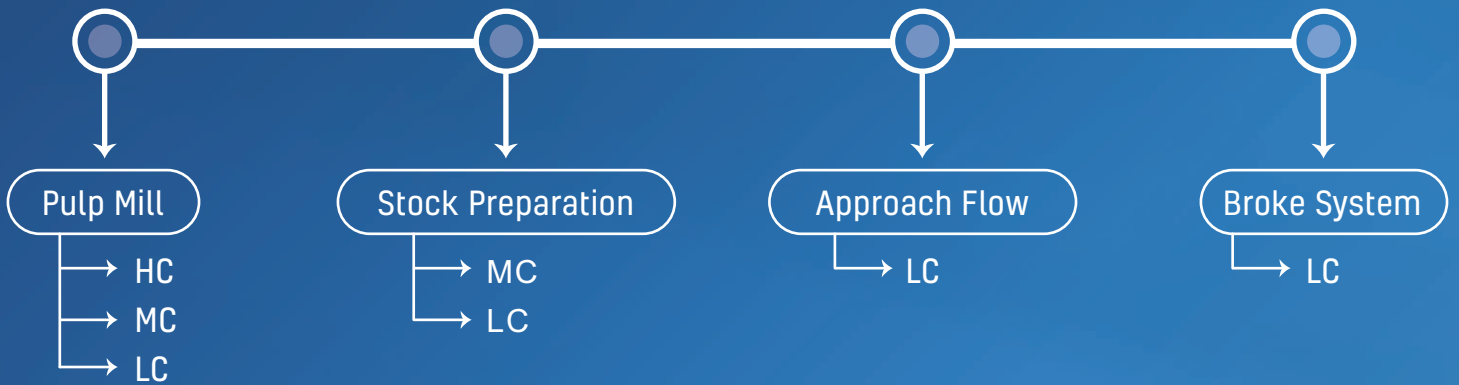
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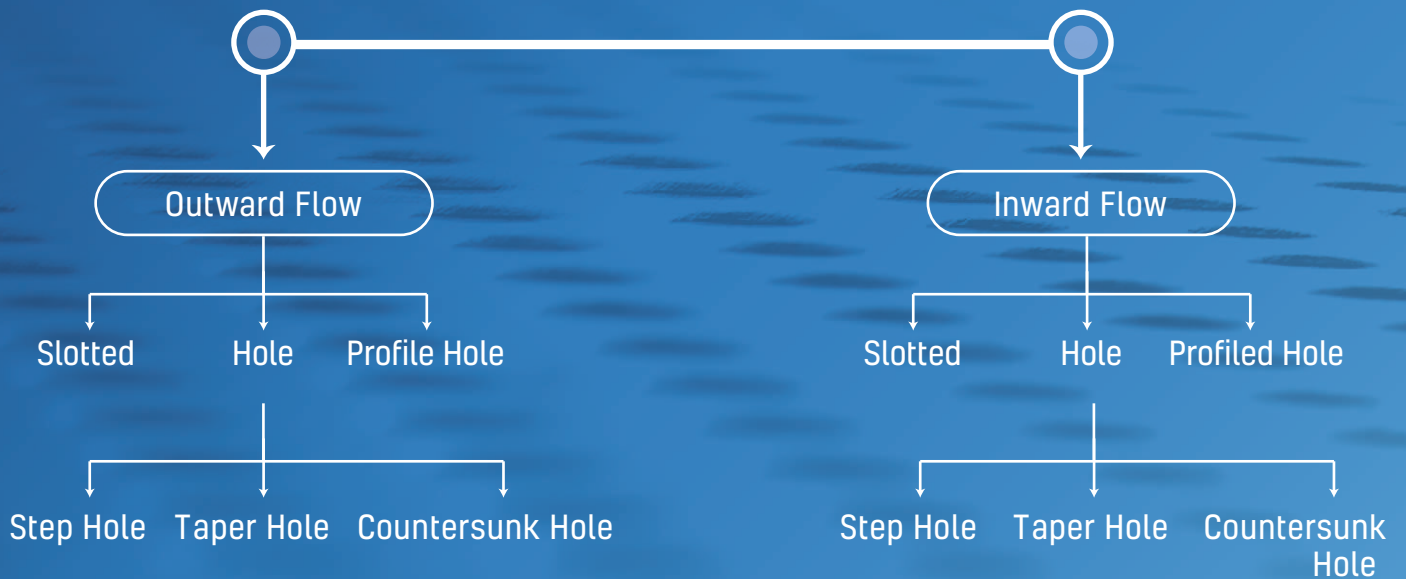


# PARASON OFFERS

## PARASON SCREEN BASKETS



## FLOW DIRECTION



**Size** - Ø 200 - Ø2000mm

**Screen Make** - Parason & Any Make

LC: Low consistency

MC: Medium consistency

HC: High consistency

# HOLE BASKETS

Parason Hole Screen Baskets are highly sophisticated and manufactured in modern drilling workshops using latest manufacturing technology. Due to optimized pitch design we can achieve the highest open screen areas.



## Applications

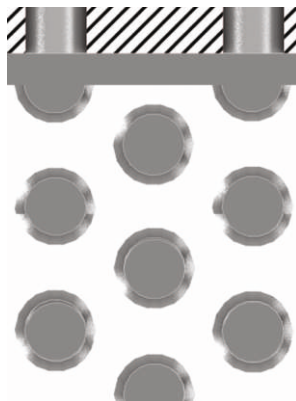
Parason Hole Screen Baskets are ideal for using in stock preparation, as well as in broke system, pulp mill, approach flow screening for Parason screens, and for all current machines and associated rotor combination of other suppliers.

- Stock
- Broke
- Approach flow
- Pulp mill

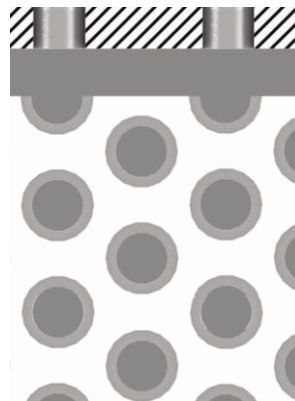
## Top View



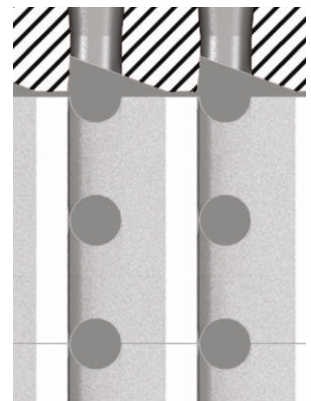
Straight Hole



Countersunk Hole



Taper Hole



Profiled Hole

# HOLE BASKETS

## Isometric View



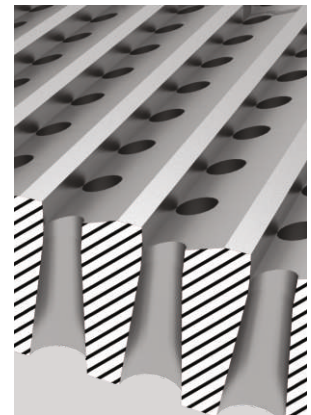
Straight Hole



Countersunk Hole

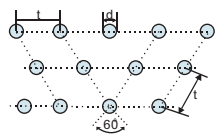


Taper Hole

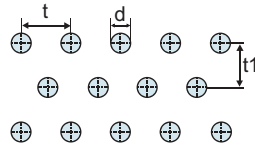


Profiled Hole

## Open Area Calculation

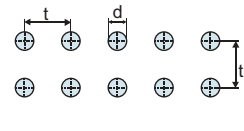


$$\text{Open Area (\%)} = \frac{d^2 \times 90.7}{t^2}$$

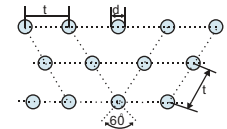


$$\text{Open Area (\%)} = \frac{d^2 \times 78.5}{t \times t1}$$

$$t1 = 0.866 \times t$$



$$\text{Open Area (\%)} = \frac{d^2 \times 78.5}{t \times t1}$$



$$\text{Open Area (\%)} = \frac{d^2 \times 90.7}{t^2}$$

Types	Straight Hole, Taper Hole, Hole with Profile, Hole with CSK, Hole with Breaker Bars, etc
Size	Inside diameter minimum from Ø320 mm - maximum Ø2000 mm & height up to 2000 mm
Drill size	Start from Ø1.0 - max. up to any standard required size
MOC	MOC: Sheet: SS316, Support ring :SS304
Inspection	We perform 100% inspection of each basket 100% QC product
Surface finish	Surface finish - Electro Polishing, Hard Chrome Plating (Plating thickness from 100 microns to 400 microns)



Constant advances in our manufacturing methods yield the highest precision in different hole designs and roundness of the screen baskets. Each screen goes through hard-chrome process for wear resistance quality which increases basket life.

# SLOTTED BASKETS

As a leader in stock preparation equipment manufacturing, Parason has been developing profiled wedge bar basket from last few decades. Parason baskets efficiently remove dirt, specks, & stickies to improve properties like cleanliness, strength, brightness, whiteness, and printability of paper.

## Applications

Parason screen baskets are developed for using in stock preparation as well as broke system, pulp mill, approach flow screening for Parason screens and for all existing non Parason screens and associated rotor combinations of other manufactures.

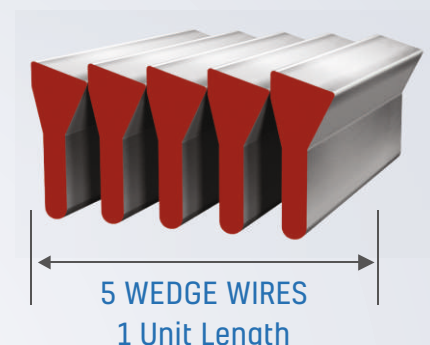
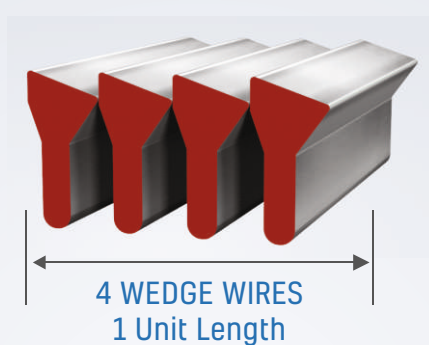
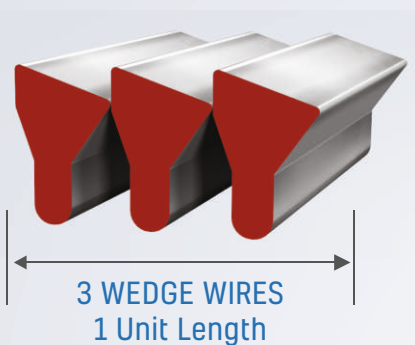
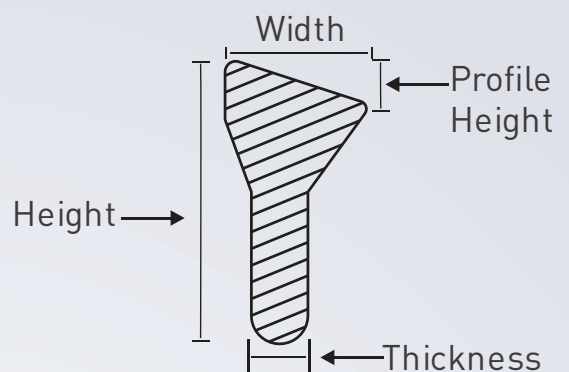
Continuous improvement in our manufacturing methods yield the highest precision in different slotted designs and roundness of the screen baskets. Each screen goes through hard-chrome process to improve wear resistance property for better life.



# APPLICATION BASED WEDGE BAR DESIGNS

Parason has developed different wedge wires considering wide range of screen basket applications as per:

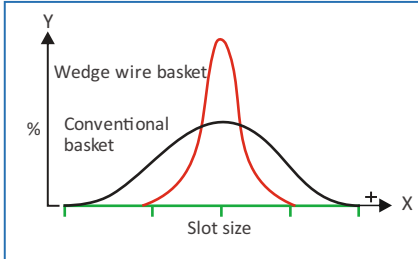
- Open area requirement
- Slot size
- Strength
- Fiber length



# SLOTTED BASKETS

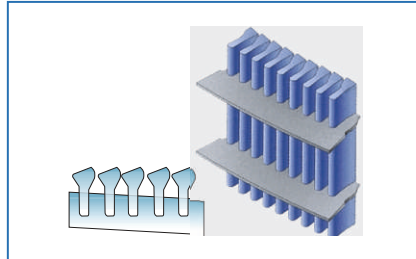
## Some important activities of Parason LOW PULSE Screen

### Cleaning Efficiency



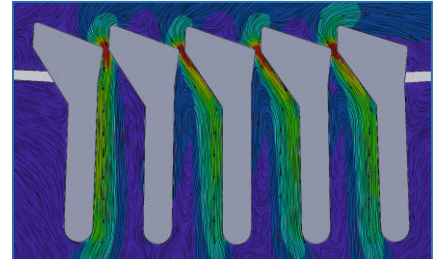
Computer controlled manufacturing process ensures high profile accuracy

### Rigid Construction



The special profile ensures smooth and burr free basket

### Uniform Flow



Flow in profile edge creates more turbulence, improving throughput and cleaning efficiency



Types	Application based Wedge Bar design
Size	Inside diameter minimum from $\varnothing 200$ mm - max. $\varnothing 2000$ mm & height up to 2000 mm
MOC	Support ring: 2205(HT), Wedge bar : SS316 Ti
Slot size	0.10 mm up to 0.60 mm
Surface finish	Electro Polishing, Hard Chrome Plating (Plating thickness from 100 microns to 400 microns)
Stress relieving operation	Operation to counter stresses induced through welding process
Inspection	We perform 100% inspection of each basket. 100% QC product

## NATURAL FLOW

FLOW Advantages

FLOW Balancing

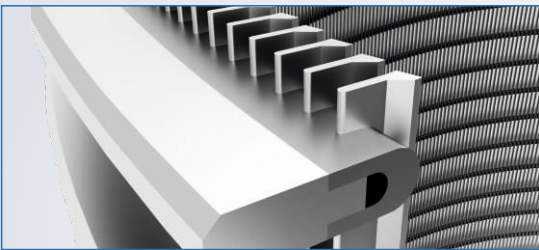
MORE FLOW MORE AREA

FLOW Cleaning

LOW Power

# HIGH CONSISTENCY BASKET

- More stronger to last longer
- High strength, No welding stresses
- For high consistency operation
- Can handle high pulsation
- High temperature working condition
- High differential pressure sustenance
- More production (HC)
- UPS series /MF series compatible



Types	Application based Wedge bar design
Size	Inside diameter minimum from $\varnothing 350$ mm - maximum $\varnothing 1500$ mm & height up to 1500 mm
MOC	Support ring: SS316, Wedge bar : SS316
Slot size	0.10 mm up to 0.60 mm
Special features	Higher consistency operation, High temperature durability, High pressure sustenance, High cleaning efficiency & Higher output
Surface finish	Electro Polishing, Hard Chrome Plating (Plating thickness from 100 microns to 400 microns)
Welding free basket	Welding free basket
Inspection	We perform 100% inspection of each basket

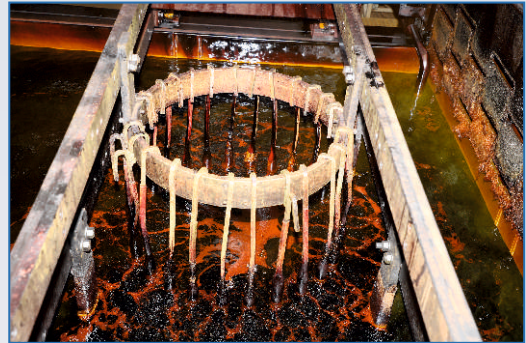
# HARD-CHROME PLATING OF SCREEN BASKETS

We extend the lifetime of your screen baskets with our advanced in house chrome plating technique. Hard chrome plated basket provide substantial cost saving benefits compare to regular basket in terms of life.

Using our advanced & controlled hard chrome facility we achieve optimized hard chrome plating without compromising the function of bar/ hole profile geometry to result best affordable screening solution to our customers.



Electropolishing



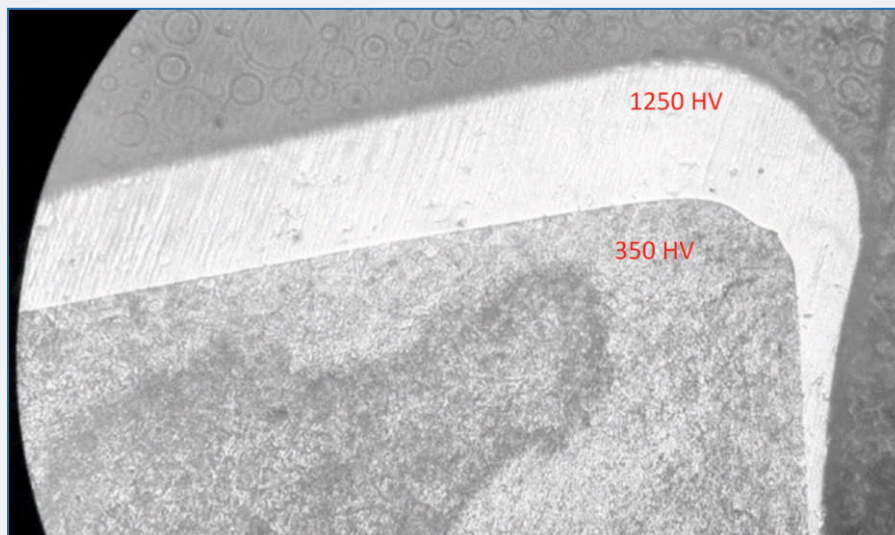
Chrome Plating



Before Hard chrome - 350 HV

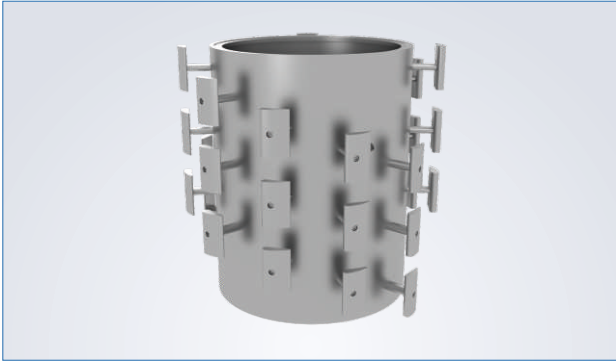


After Hardchrome - 1250 Hv

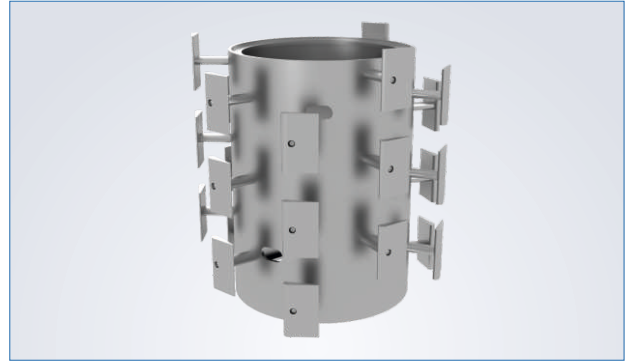


Hardchrome layer - 250 micron

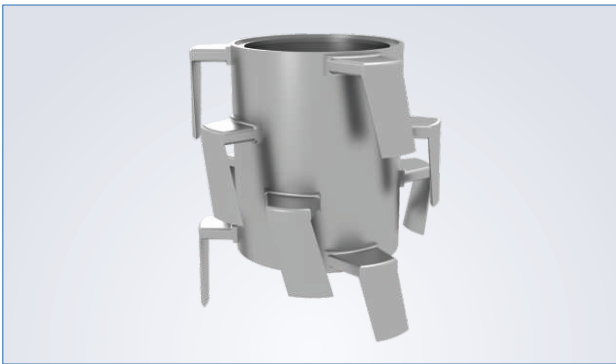
# APPLICATION BASED SCREEN ROTORS



HGH Rotor



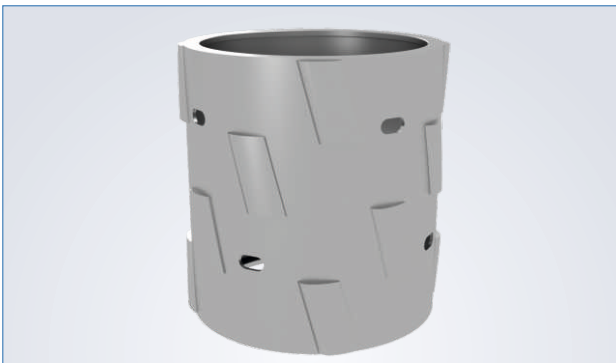
VSL Rotor



Multivane Airfoil Rotor



VSM Rotor Vane Angle



CrocX Rotor



VSM Rotor



Step Rotor



Centripetal Rotor

# SCREENING PARAMETERS

## Solution Based On Operational parameters

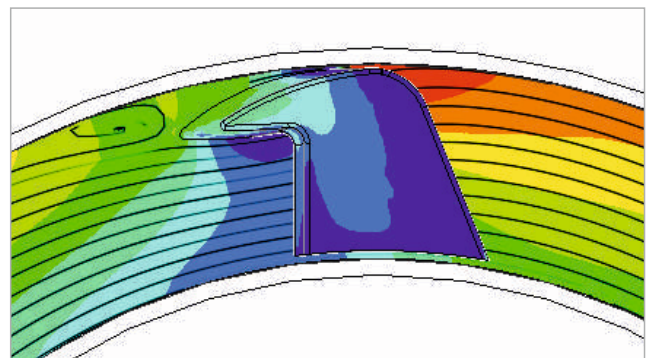
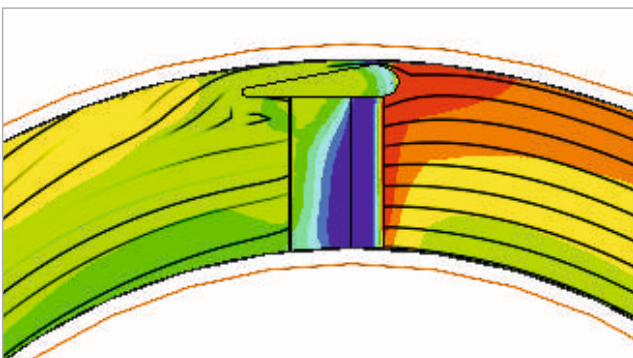
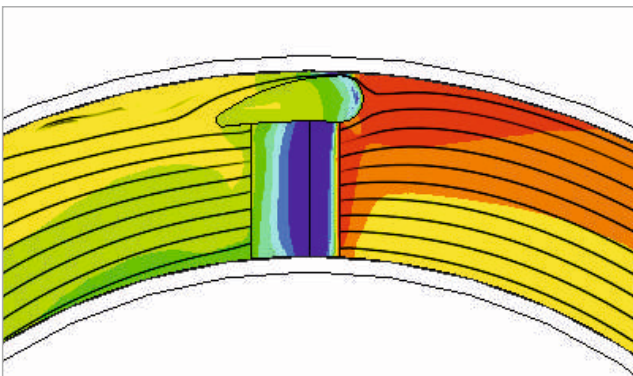
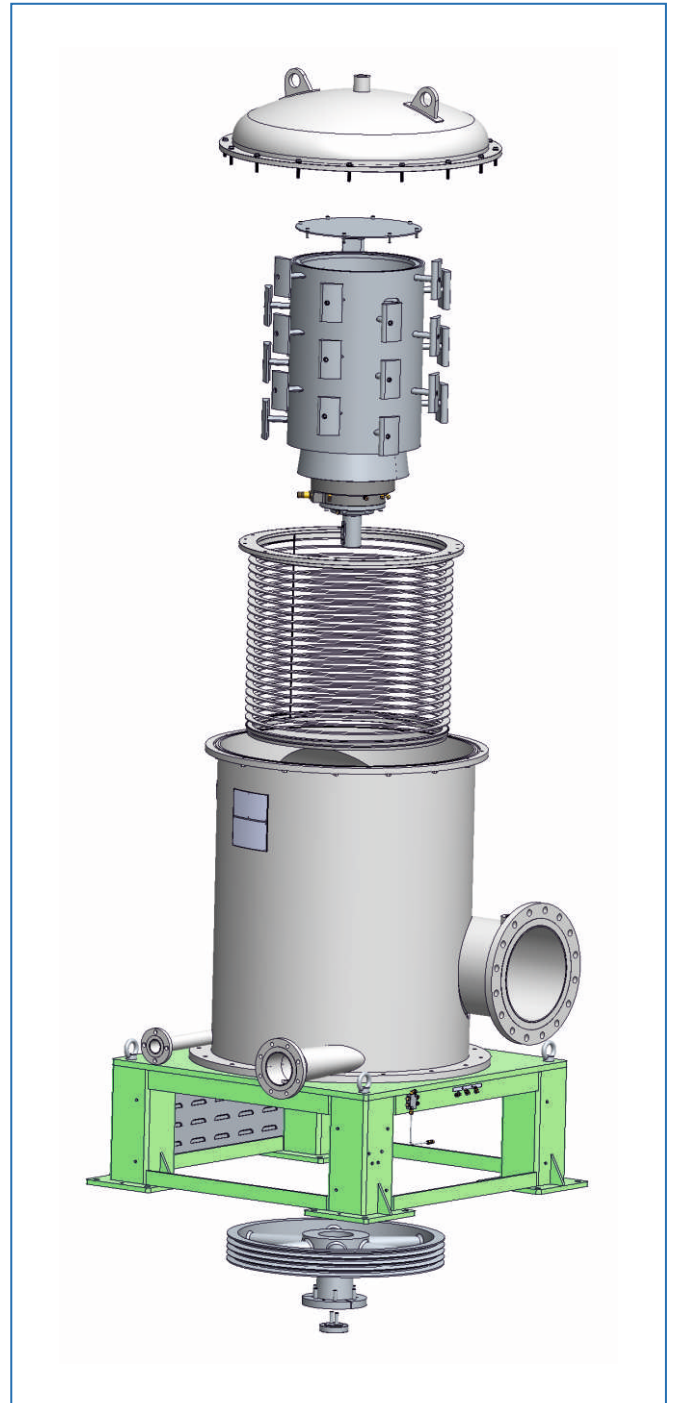
- Feed consistency
- Volumetric reject rate
- Rotor tip speed and rotor frequency
- Passing velocity
- Furnish parameters like temperature and PH
- Reject thickening
- Power consumption

## Screening solutions for

- Kraft pulp
- Mixed waste
- OCC
- Recycled
- DIP
- Mechanical pulp

## Our solutions

For every application a compatible profile efficient removal of contaminants by high precision of the slot width available in economy and high end finishing series



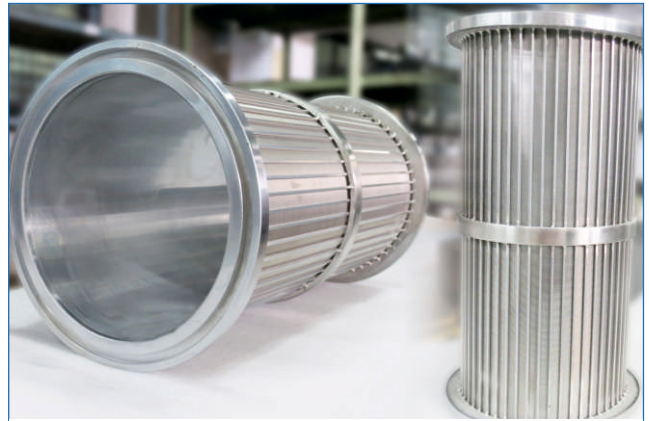
CFD simulations to ensure & validate the performance on field



## PARASON BASKET UNIT



Automated welding machine



Total QC management



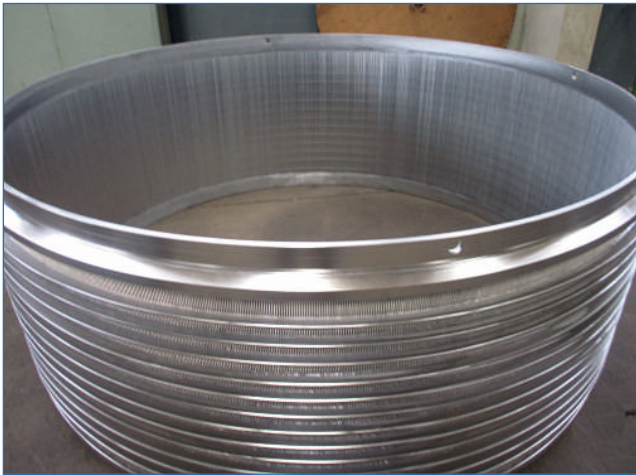
Ready to dispatch



CNC Machine



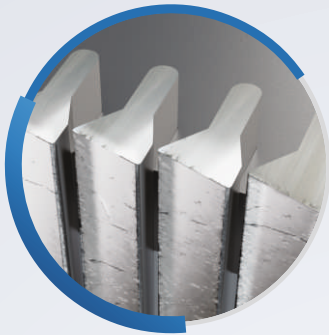
## PARASON BASKET UNIT



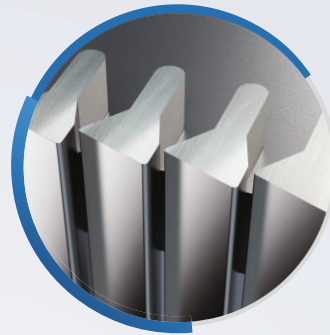
# RE-CHROME PLATING OF SCREEN BASKETS

Extend the lifetime of your screen baskets with our re-chroming and repair services. Rebuilding your existing rotors provides substantial cost saving benefits as well as the possibility of upgrading older OEM rotors to newer more productive and energy efficient designs for today's demanding screening applications. PARASON also offers screen bearing assembly and housing rebuilds.

Screen rebuilds and upgrades are available for virtually all OEM makes and models.



USED



AFTER REBUILD



## To regain profile geometry:

Due to operational wear in screening, the heads of profile bars frequently wear out. Rebuilding the chrome layer ensures constantly high screening quality.

PARASON team is specially trained in the analysis of screen baskets so as to be able to determine whether rechroming is necessary. If so, the old chrome layer of the screen basket is completely removed. It is especially ensured that no change in the geometry of the profile head comes. The slot width of the screen basket also remains unchanged.

Chrome is one of the materials that is least susceptible to wear and can also be applied repeatedly. This makes rechroming the most economical alternative for wear prevention in the case of screen baskets. Rechroming is provided for the entire screen basket portfolio from PARASON and for those of other manufacturers. The service is also specifically available for hole screen baskets.

# SCREEN DATA SHEET

Company/Location: \_\_\_\_\_

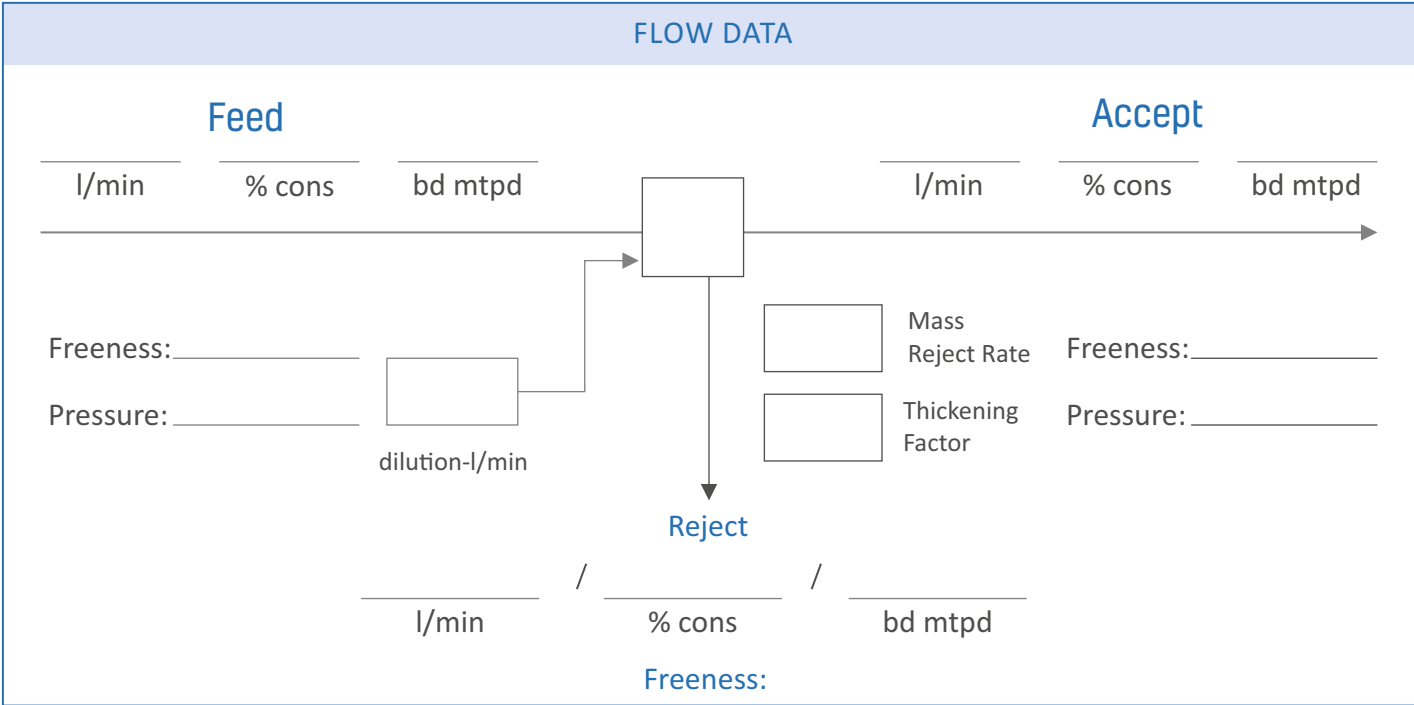
Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_

Screen Position: \_\_\_\_\_

Screen Make and Model: \_\_\_\_\_

Type of stock: \_\_\_\_\_

Goals: \_\_\_\_\_



ROTOR DATA
Rotor Type: _____
Number of Foils: _____
Rotor Speed: _____ rpm
Rotor Basket Clearance _____
Motor Rating: _____ hp (or kw)
Full Load Amps: _____
Running Amps: _____

CURRENT SCREEN BASKET
Slotted: _____ <div style="display: flex; justify-content: space-around; font-size: small;"> <span>slot width</span> <span>slot pacing</span> </div>
Drilled: _____ <div style="display: flex; justify-content: space-around; font-size: small;"> <span>hole diameter</span> <span>open area</span> </div>
Profile Type: _____
Normal Basket Life: _____
Coating: None, Chrome, Other _____



# PARASON

## *Engineered Trust*

**Corporate office:** Golden Dreams IT Park, 4th Floor,  
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