Complete Screening Solutions

- MC Screens
- Turbo Separator
- Reject Sorter
- Combo Screens
- LC Screens & Reject Screens
- Fibermizer
- Fractionators
- Inflow Screens
- Vibrating Screens
- Upflow Screens
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 manufacturing of custom made Screen Baskets for all types of applications: New plants, expansions or upgrades.

→ Custom designed and engineered
→ Long lasting
→ Lower maintenance
→ Affordable technology
Complete screening solution

1. MC Screens
2. Turbo Separator
3. Reject sorter
4. Inflow pressure screens
5. Fibermizer
6. Fractionator
Application & Unique Features

Parason Medium Consistency Screen with specially designed rotor is provided with both hole or slotted basket. The specially designed rotor with fabricated & contoured foils generates lower positive pulses and higher negative pulses. Hence takes low energy consumption and gives higher purging effect to keep the basket clean.

- Efficient separation of contaminants.
- Low power consumption.
- Improved screening efficiency.
- Improved quality of paper.
- Hole or Slot type basket.

Step Rotor

- Suitable for operations with large flat shaped contaminants.
- Staggered & Tropical Fish / Step type rotor for low pulses and low absorbed power.
- Hard faced edges.
- Computerized dynamically balanced rotor.

Technical Specifications:

<table>
<thead>
<tr>
<th>MODEL MCS (VSM)</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>12</th>
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<tbody>
<tr>
<td>CAPACITY (TPD)</td>
<td>10-25</td>
<td>30-50</td>
<td>50-100</td>
<td>80-150</td>
<td>150-200</td>
<td>150-250</td>
<td>250-400</td>
</tr>
<tr>
<td>POWER (kw)</td>
<td>22</td>
<td>37</td>
<td>45</td>
<td>55</td>
<td>90</td>
<td>110</td>
<td>132-160</td>
</tr>
<tr>
<td>MOTOR (RPM)</td>
<td>1470</td>
<td>1470</td>
<td>1470</td>
<td>1470</td>
<td>980</td>
<td>980</td>
<td>980</td>
</tr>
</tbody>
</table>
Application & Unique Features
Parason Turbo Separator is a disc screen specially designed for coarse screening primarily for pulp strainer with a high trash and flake content like recycled paper

→ Most suitable in screening of pulp slurries with high trash and flake content
→ Can also be used as a secondary screen with a cylindrical screen in the first stage
→ Higher de-flaking potential and ensures reliable operation
→ Online contaminants removal of both light and heavy rejects separately

Technical Specification:

<table>
<thead>
<tr>
<th>MODEL (TS)</th>
<th>450</th>
<th>650</th>
<th>900</th>
<th>1000</th>
<th>1200</th>
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<td>CAPACITY (TPD)</td>
<td>25 - 30</td>
<td>55-65</td>
<td>80 -100</td>
<td>100-130</td>
<td>130 - 160</td>
</tr>
<tr>
<td>POWER (kw)</td>
<td>45</td>
<td>55</td>
<td>90</td>
<td>110</td>
<td>132</td>
</tr>
<tr>
<td>MOTOR RPM</td>
<td>1470</td>
<td>1470</td>
<td>1470</td>
<td>980</td>
<td>980</td>
</tr>
</tbody>
</table>
Application & Unique Features

It is a typical last stage screen to handle the last stage coarse screen reject. The Reject Sorter with a specially designed rotor is fitted with sweeping distributing blades of specially hardened MOC. The rotor impuls the stock fed-in against the screen half, cleans the screen half and disaggregates the fiber bundle for better for sorting.

→ Discharge of raw rejects virtually free from fiber
→ Specially designed rotor with distributing and sweeping blades
→ Gravity feed and discharge. Turbulence chamber de-flakes and separate the fiber
→ Higher fiber recovery and debris removal screen halves of different size and types of hole
→ Significant cost saving in terms of fiber loss

Technical Specifications:

<table>
<thead>
<tr>
<th>MODEL HRS</th>
<th>TPD</th>
<th>POWER (kw)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>22</td>
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<tr>
<td></td>
<td>2</td>
<td>45</td>
</tr>
</tbody>
</table>

MOTOR RPM = 1470
COMBOSCREEN

Application & Unique Features

Combo Screen is a light reject handling coarse screen which is capable of de-flaking the stock simultaneously with cleaning and dewatering impurities from recovered fiber. Pulp enters tangentially from inlet, the perforated plate and the impeller fitted at the bottom ensures both the deflaking & cleaning of the stock. Which gives accept to the remaining light reject & fiber goes to upper chamber where fine separation is done & all reject (screening zone) are separated & gives accept.

Benefits

→ Fiber recovery from all reject
→ Lower fiber loss in operation & Power efficiency due to compact design
→ Improvement in percentage of yield and Inlet chamber manufactured with high wear resistance alloy
→ Vision window for inspecting the inlet chamber
→ Well engineered rotors, machined on CNC machines for greater accuracy
→ Dual operation saves pumping and no load energy

Fiber free reject of Parason Comboscreen
Successfully Commissioned In Suchi Paper Mill, Ghaziabad

Technical Specifications:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>01</th>
<th>02</th>
<th>03</th>
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</thead>
<tbody>
<tr>
<td>kw/RPM</td>
<td>75/1440</td>
<td>90/1440</td>
<td>110/1440</td>
</tr>
<tr>
<td>Pulp mill capacity (TPD)</td>
<td>100 - 150</td>
<td>150 - 250</td>
<td>250 - 500</td>
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</table>
Application & Unique Features

The screens are suitable for stock preparation system and also for the approach flow system. The MULTIVANE AEROFOIL ROTOR design ensures the screen to operate free from pulsation. The unique contoured multi-foil rotor with optimum foil angle ensures better screening efficiency and lesser reject thickening.

→ No string formation.
→ Low turbulence.
→ Low power consumption.
→ Improved screening efficiency.
→ Improved quality of paper.
→ Dependable paper machine operation.

Technical Specifications:

<table>
<thead>
<tr>
<th>MODEL VSL</th>
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<th>7</th>
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<tr>
<td>BASKET AREA (Sq.m)</td>
<td>0.4</td>
<td>0.8</td>
<td>1.1</td>
<td>1.4</td>
<td>2.0</td>
<td>2.5</td>
<td>3.1</td>
<td>3.8</td>
<td>4.5</td>
<td>5.7</td>
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<tr>
<td>CAPACITY (TPD)</td>
<td>10-20</td>
<td>20-30</td>
<td>40-60</td>
<td>40-80</td>
<td>80-120</td>
<td>100-160</td>
<td>150-250</td>
<td>180-270</td>
<td>200-300</td>
<td>250-400</td>
</tr>
<tr>
<td>POWER (Kw)</td>
<td>22°</td>
<td>30°</td>
<td>37°</td>
<td>45°</td>
<td>45°</td>
<td>55°</td>
<td>90°</td>
<td>110/980</td>
<td>125/980</td>
<td>132/980</td>
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</table>

MOTOR RPM = 1470°
Application & Unique Features

Parason Reject Screen with PLC/Timer controlled washing cycle used in the last stage of the screening system to minimize the fiber loss in reject discharge.

- Exceptional improvement in screening.
- Improvement in the optical properties of paper.
- Excellent fiber saving/recovery.
- Suitable for removing dimensionally unstable impurities.
- Hole or Slot type basket.
- No string formations.
- Efficient separation of fiber and contaminants with almost zero fiber loss.
- Programmable Logic Controller (PLC) panel.
- Two separate panels for pneumatic and electric operation.

Technical Specifications:

<table>
<thead>
<tr>
<th>MODEL (VSMW/VSLW)</th>
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<th>5</th>
<th>6</th>
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<td>CAPACITY (TPD)</td>
<td>8-12</td>
<td>15-25</td>
<td>25-35</td>
<td>30-50</td>
</tr>
<tr>
<td>POWER (Kw)</td>
<td>22/22</td>
<td>37/30</td>
<td>45</td>
<td>55/45</td>
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</table>

MOTOR RPM = 1470
Application & Unique Features

Fibermizer is a screening machine used for the reject handling. It is used for reject handling in coarse screening as well as fine screening where the amount of rejects is more in quantity and contains fiber flakes.

The paper stock enters tangentially into the feed chamber. The action between the rotor blades and defibrating ring bars creates mechanical shear which breaks down larger fiber flakes and bundles before they enter the screening zone. Due to the reduction in size, fibers pass through the screen basket and leave the machine as accepted stock.

The rejects from the screen basket are discharged continuously from the reject nozzle. Due to differential pressure, a portion of the rejects are recirculated back in the feed chamber again to reclaim maximum fiber.

Advantages

→ Max. fiber recovery & Low power consumption.
→ Effective reject handling.
→ Useful where size of flakes is bigger with plastics.

Technical Specifications:

<table>
<thead>
<tr>
<th>Parameters</th>
<th>FML MODEL 45</th>
<th>FML MODEL 55</th>
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</thead>
<tbody>
<tr>
<td>KW/RPM</td>
<td>45/1470</td>
<td>55/1470</td>
</tr>
<tr>
<td>Pulp mill capacity (TPD)</td>
<td>10 - 15</td>
<td>15 - 25</td>
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</table>
Application & Unique Features

Parason Fractionator separates the fibers mainly by fibre length and are fitted with hole or slot type baskets. The specially designed rotor with fabricated and contoured foils generates lower positive pulses and higher negative pulses. Hence requires low energy consumption and higher purging effect to keep the basket clean.

Purpose of Fractionation:

→ The purpose of fractionation is to separate long fibers and short fibers according to various characteristics, such fiber length type of fiber etc
→ Depending on requirements, each fractioned pulp is then used directly for papermaking or undergoes for further treatment

Technical Specifications:

<table>
<thead>
<tr>
<th>MODEL (FSM)</th>
<th>8</th>
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<th>12</th>
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</thead>
<tbody>
<tr>
<td>CAPACITY (TPD)</td>
<td>100-150</td>
<td>200-300</td>
<td>300-400</td>
</tr>
<tr>
<td>POWER (Kw)</td>
<td>55</td>
<td>110</td>
<td>132-160</td>
</tr>
<tr>
<td>MOTOR (RPM)</td>
<td>1470</td>
<td>980</td>
<td>980</td>
</tr>
</tbody>
</table>
INFLOW PRESSURE SCREEN

Application & Unique Features

→ Reduced installed power & higher production capacity
→ Inflow structure results in low pulsation
→ No gaskets companion flange in pulp outlet in wall is polished results in seamless connection of flow pipeline and no fiber hitching. Automatic oil injection device, seal water detection alarm device ensures the safe running of equipment and reduced maintenance
→ Advanced structure, sturdy durable, convenient disassembly and assembly, simple operation, less malfunctions for continuous working, low maintenance cost
→ Ideal for approach flow screening system

Technical Specifications:

<table>
<thead>
<tr>
<th>MODEL VIS</th>
<th>4</th>
<th>5</th>
<th>66</th>
<th>8</th>
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<tbody>
<tr>
<td>TPD</td>
<td>10 - 20</td>
<td>20 - 50</td>
<td>40 - 70</td>
<td>60 - 120</td>
<td>100 - 200</td>
<td>200 - 300</td>
</tr>
<tr>
<td>POWER (Kw/RPM)</td>
<td>18-22/1470</td>
<td>22-30/1470</td>
<td>30-37/1470</td>
<td>37-45/1470</td>
<td>45-55/1470</td>
<td>75-90/980</td>
</tr>
</tbody>
</table>

- High Throughput, Lower Energy Consumption
- Few rejects and higher obtaining rate of long fiber
Vibrating Screen Separators in the Pulp and Paper Industry

There was a time when the pulp and paper industry thought of circular screen separators only in relation to the calcification of size and coatings. But those days are gone forever! The pulp and paper industry is now one of the largest users of vibrating screen separators.

**Advantages**

- Possible utilization for screening of diverse sorts of rejects
- Open design (visual inspection of screening process)
- Easy maintenance and servicing
- Easy operation and high work safety

**Technical Specification:**

<table>
<thead>
<tr>
<th>MODEL PVS</th>
<th>TPD</th>
<th>POWER (Kw)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4 - 5</td>
<td>3.7</td>
</tr>
</tbody>
</table>

MOTOR RPM = 1470
Application & Unique Feature

The screen has its inlet from the bottom side. Accordingly, the light reject are purged from the top side. There are various types of foiled rotors which can be selected based on the application.

- More efficient debris removal.
- Better quality of screening.
- Heavy debris rejected to junk box in bottom, Preventing wear and damage to rotor and screen basket
- Rejects remain in screening zone for lesser time
- Screen baskets designed with smooth, counted hide, rejected sorter in application
- Light reject debris are removed immediately through top of screen via reject nozzle

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Technical Specification:

<table>
<thead>
<tr>
<th>MODEL (PMS)</th>
<th>3</th>
<th>4</th>
<th>6</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER (Kw)</td>
<td>55</td>
<td>75</td>
<td>90</td>
<td>110</td>
</tr>
<tr>
<td>TPD</td>
<td>40</td>
<td>55</td>
<td>140</td>
<td>230</td>
</tr>
</tbody>
</table>
Parason hole screen baskets are highly sophisticated and manufactured in modern drilling workshops using the best available manufacturing technology. Due to optimized pitch design we can achieve the highest open screen areas.

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

HIGH CONSISTENCY BASKET

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

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

3 WEDGE WIRES
1 Unit Length

4 WEDGE WIRES
1 Unit Length

5 WEDGE WIRES
1 Unit Length
RANGE OF DIFFERENT ROTORS

- HGH Rotor
- VSL Rotor
- Multivane Airfoil Rotor
- VSM Rotor Vane Angle
- CrocX Rotor
- VSM Rotor
- Step Rotor
- Centripital Rotor