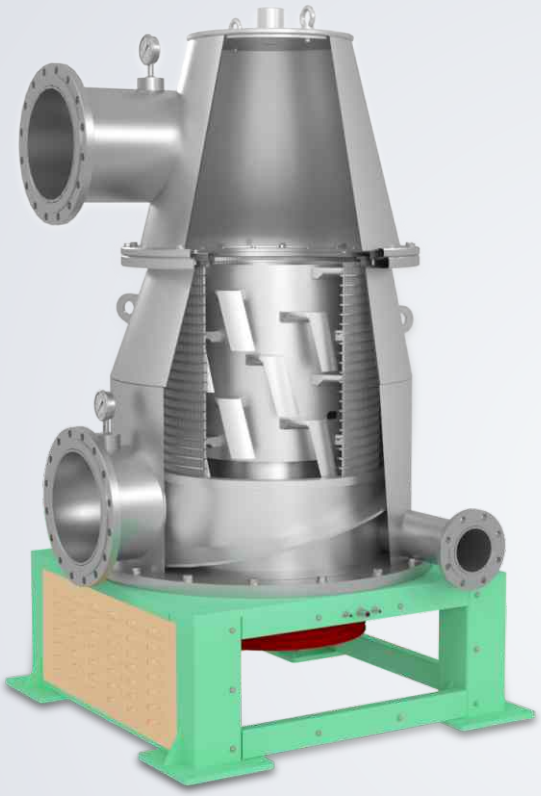
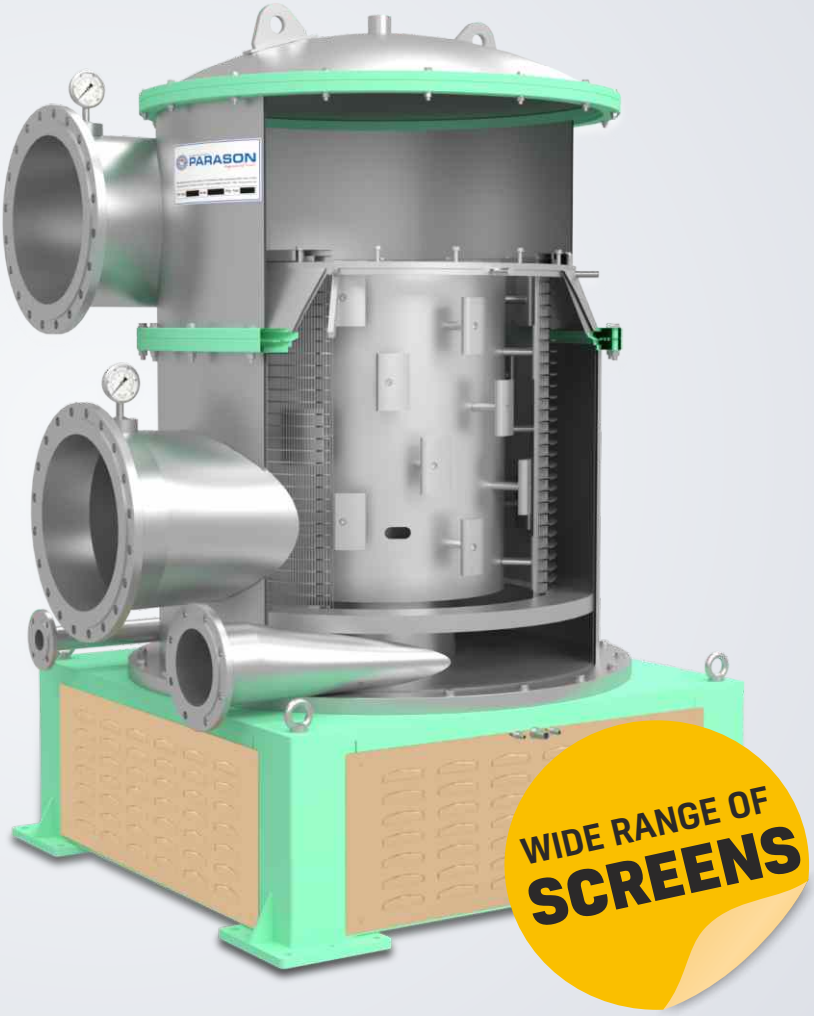
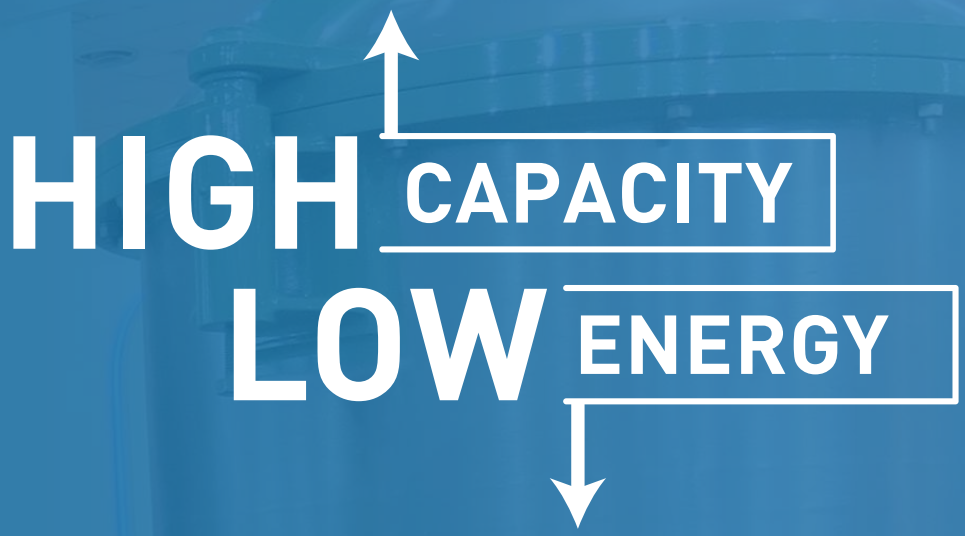
PARASON

Parason Screening Solutions

Maximum Screening | High sticky removal efficiency | Low power consumption







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 manufacturing of custom made Screen Baskets for all types of applications: New plants, expansions, or upgrades.

→ Custom designed and engineered

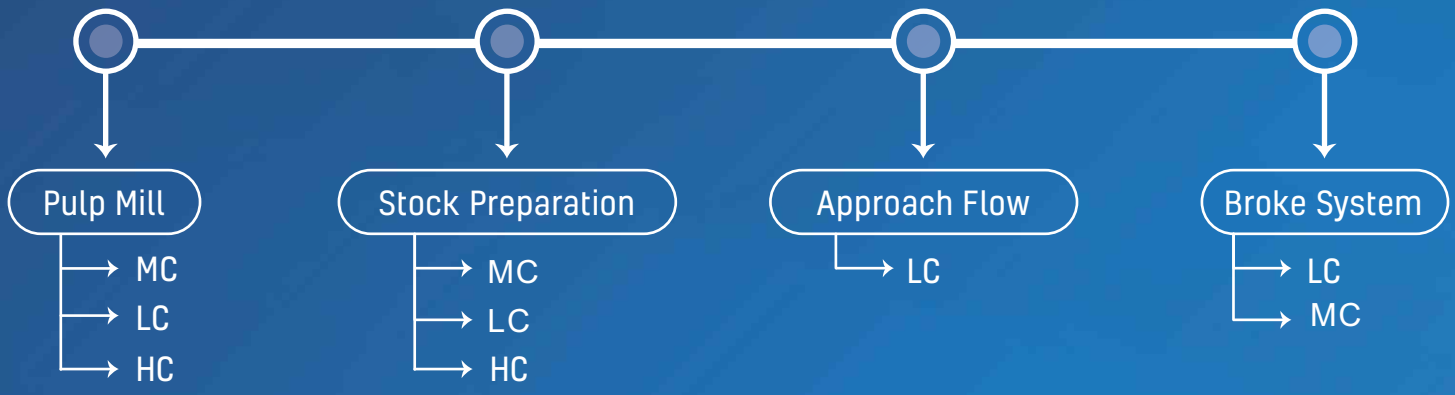
→ Long lasting

→ Lower maintenance

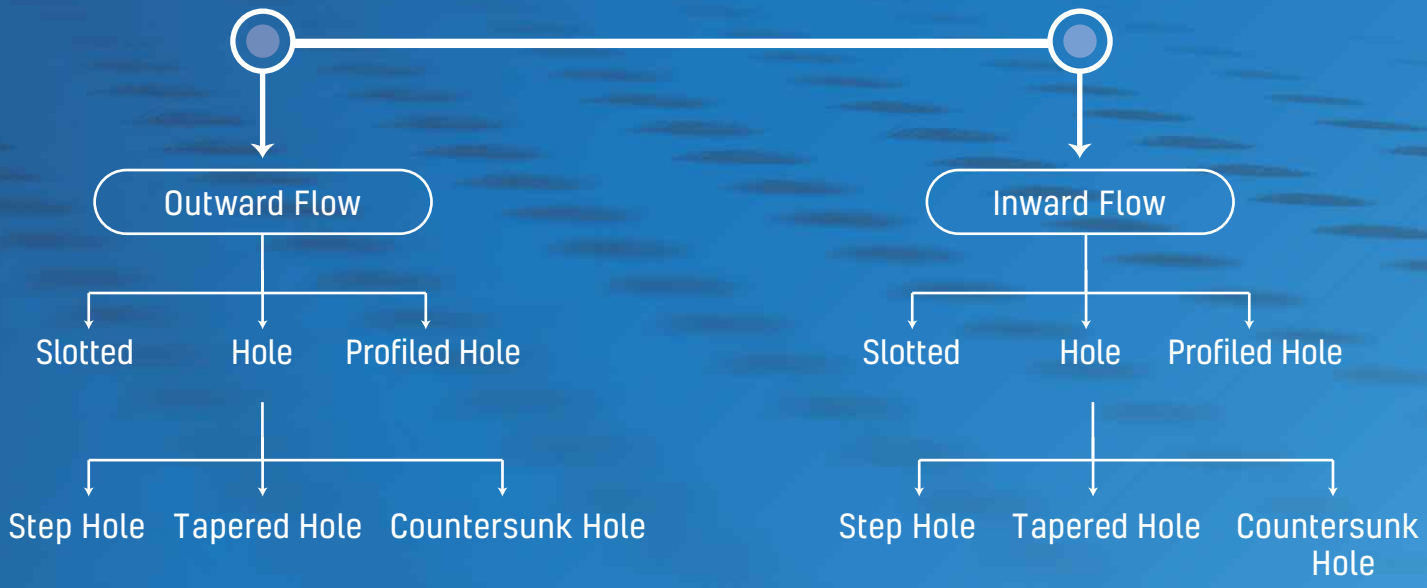
→ Affordable technology

PARASON OFFERS

PARASON SCREENING SOLUTIONS



FLOW DIRECTION



Capacity - 15 TPD - 800 TPD

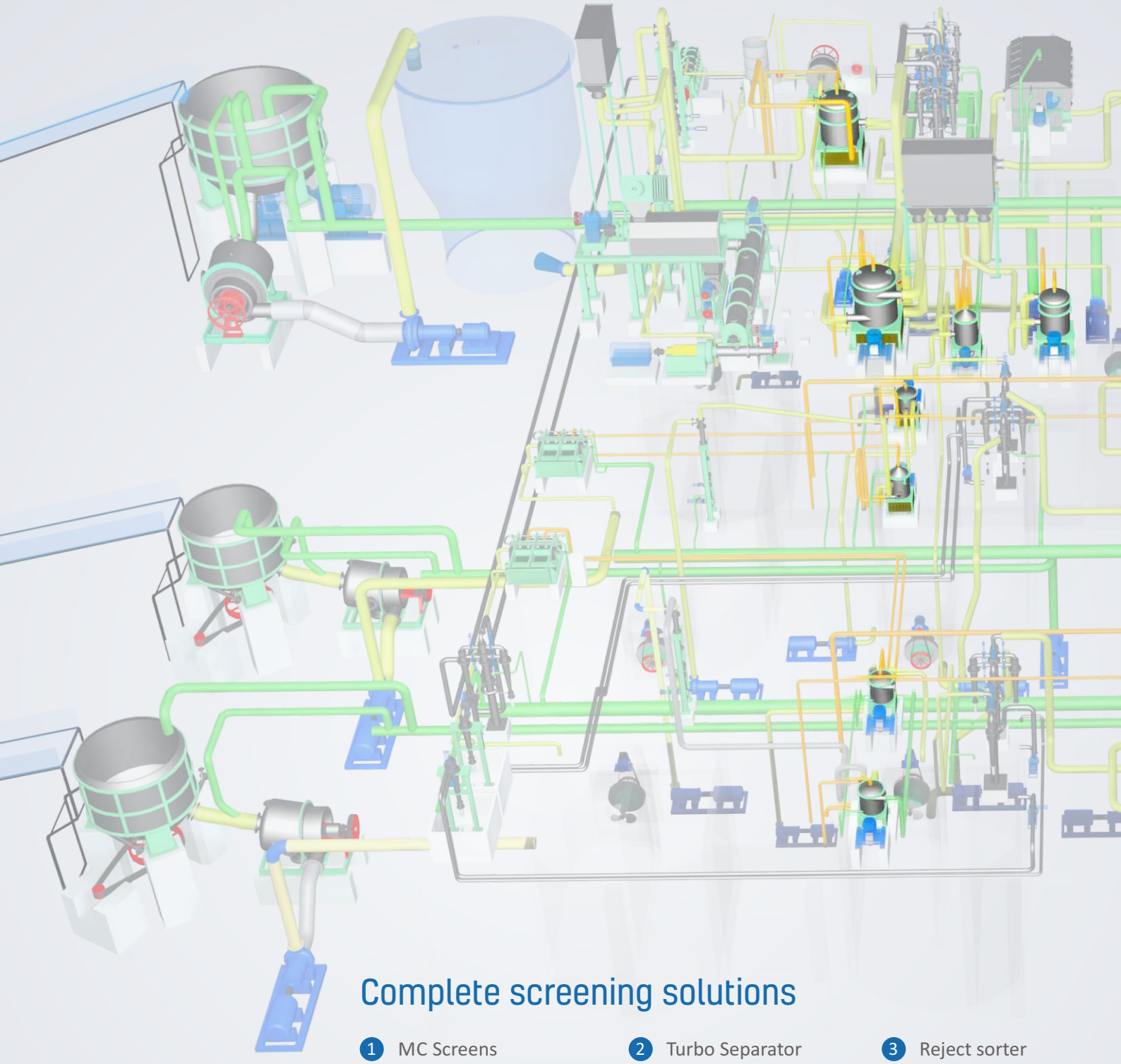
LC: Low consistency

MC: Medium consistency

HC: High consistency

PARASON

Engineered Trust

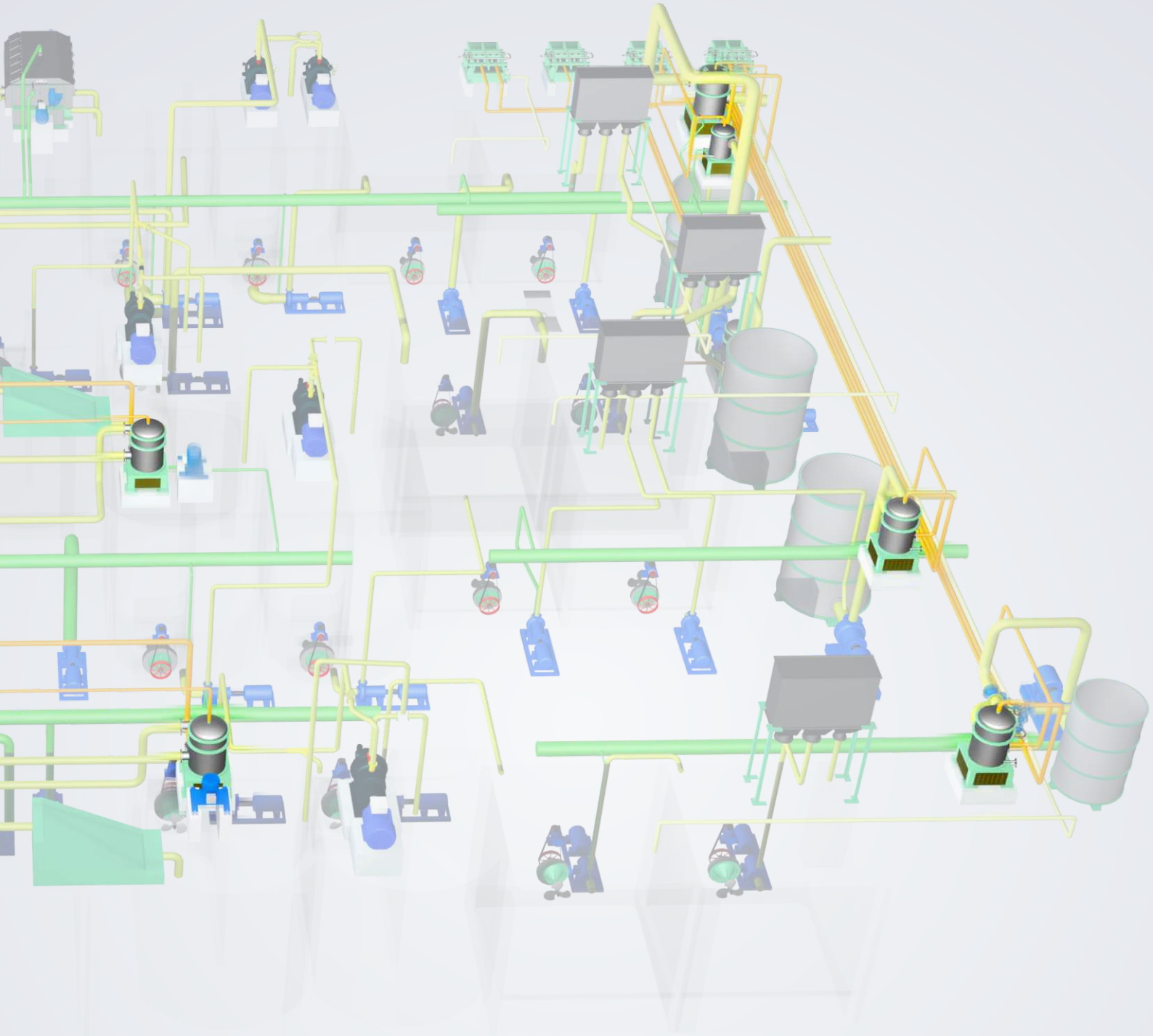


Complete screening solutions

1. MC Screens
2. Turbo Separator
3. Reject sorter
7. Fibremizer
8. Fractionator
9. Inflow pressure screens

Parason... Leader In Stock Preparation Equipment & Spares

Pulp Mill 3D Engineering Layout



4 Comboscreens

5 LC Screens

6 Reject screens

10 Vibrating screens

11 Upflow screens

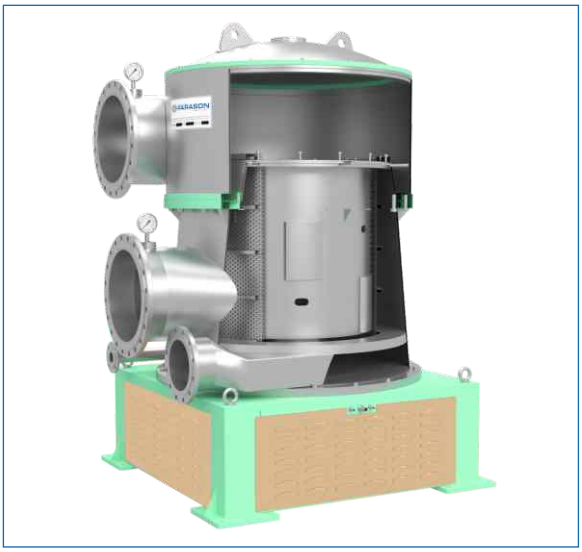
12 Shield Screen

COARSE SCREENING

Application & Unique Features

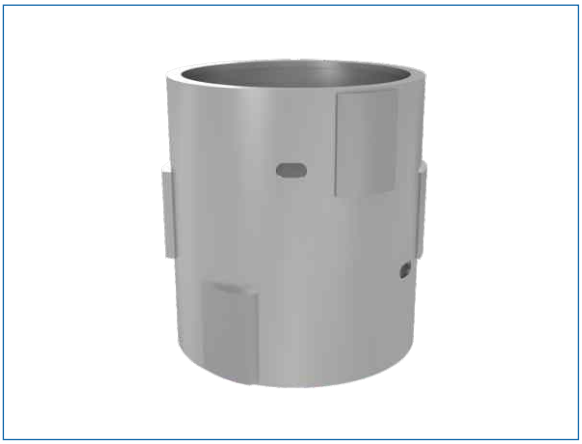
Parason Medium Consistency Screen with specially designed rotor is provided with both hole or slotted basket. The specially designed rotor with fabricated & contoured foils generates lower positive pulses and higher negative pulses. Hence takes low energy consumption and gives higher purging effect to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

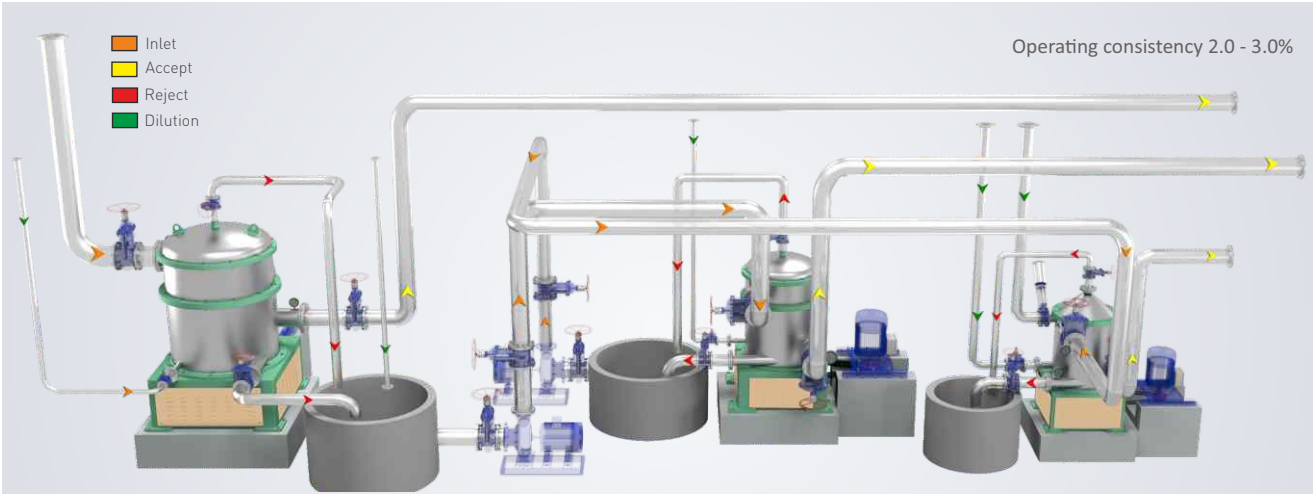
- → Efficient separation of contaminants
- → Low power consumption
- → Improved screening efficiency
- → Improved quality of paper
- → Hole or Slot type basket



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

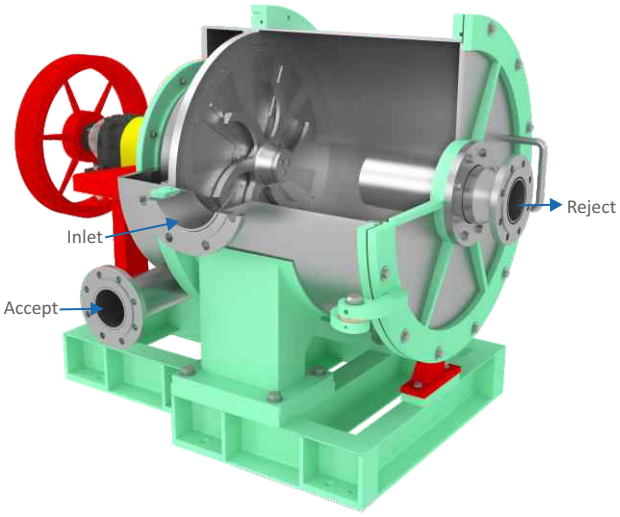


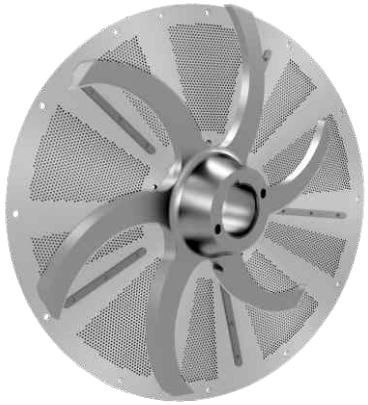


Technical Specifications:

MODEL MCS (VSM)	4	5	6	8	9	10	12
CAPACITY (TPD)	10-25	30-50	50-100	80-150	150-200	150-250	250-400
POWER (kw)	22	37	45	55	90	110	132-160
MOTOR (RPM)	1470	1470	1470	1470	980	980	980

TURBO SEPARATOR

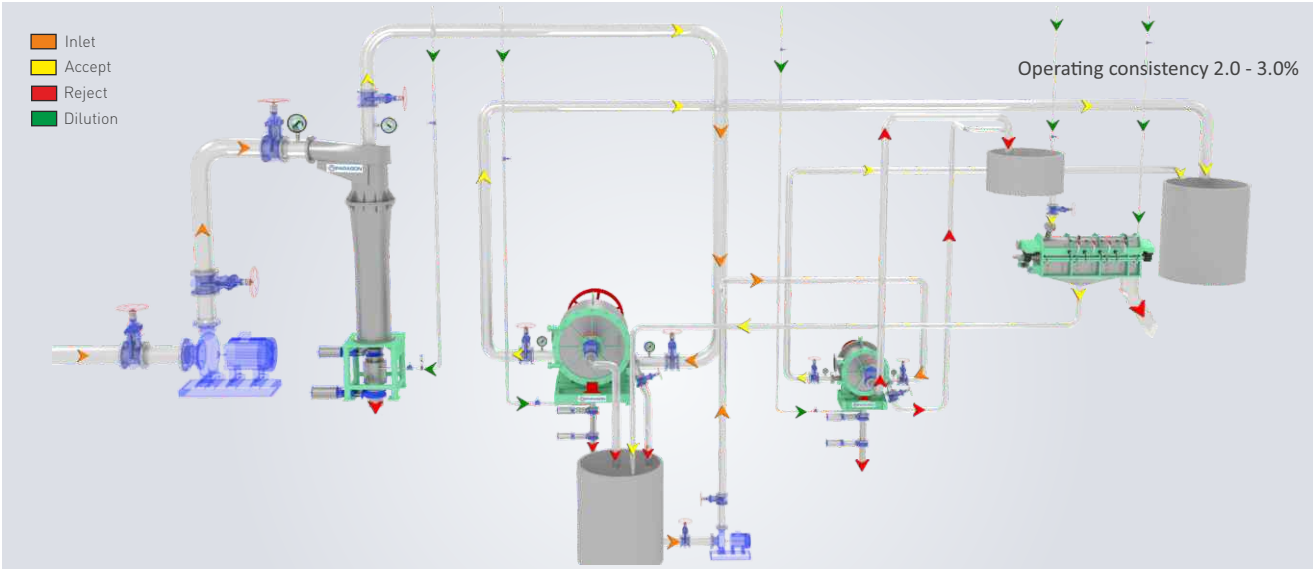




Application & Unique Features

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

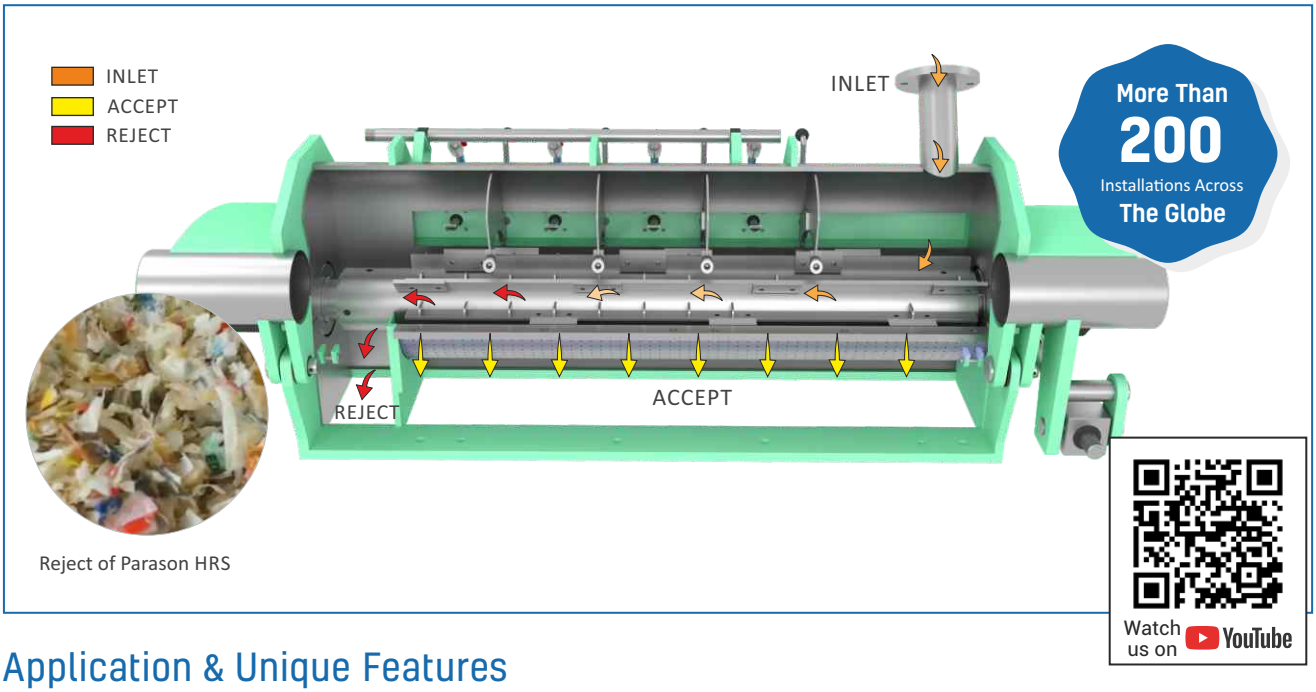
- → Most suitable in screening of pulp slurries with high trash and flake content
- → Can also be used as a secondary screen with a cylindrical screen in the first stage
- → Higher de-flaking potential and ensures reliable operation
- → On line contaminants removal of both light and heavy rejects separately



Technical Specifications:

MODEL (TS)	450	650	900	1000	1200
CAPACITY (TPD)	25 - 30	55-65	80 -100	100-130	130 - 160
POWER (kw)	45	55	90	110	132
MOTOR RPM	1470	1470	1470	980	980

REJECT SORTER

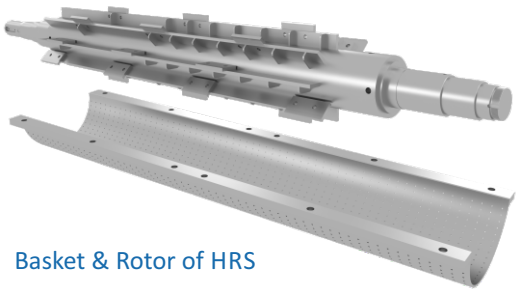


Reject of Parason HRS

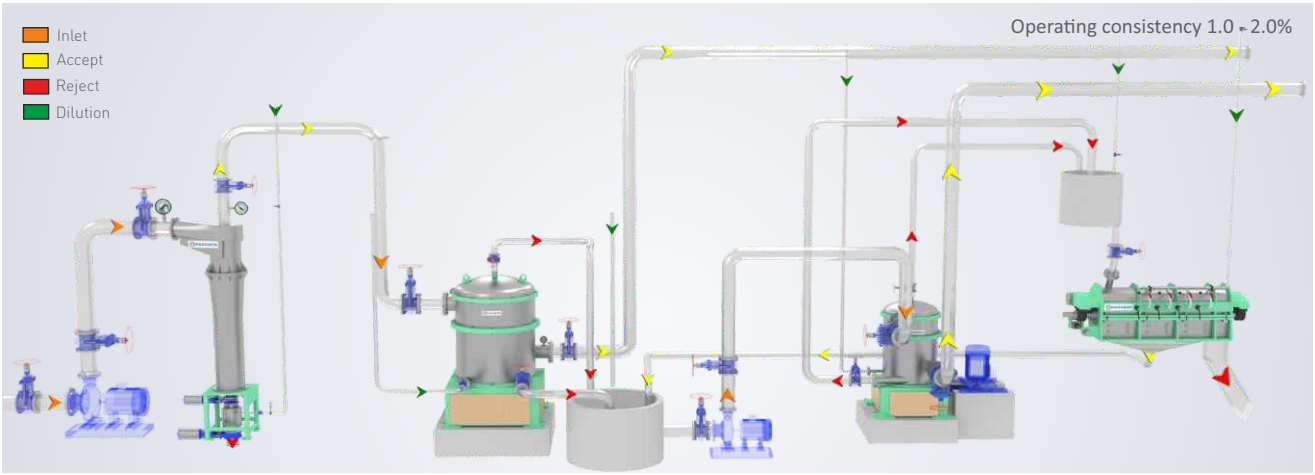
Application & Unique Features

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 impels the stock fed-in against the screen half, cleans the screen half and disaggregates the fibre bundle for better sorting.

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



Basket & Rotor of HRS



Technical Specifications:

MOTOR RPM = 1470

MODEL HRS	1	2
TPD	6 - 12	15 - 25
POWER (kw)	22	45

COMBOSCREEN

Application & Unique Features

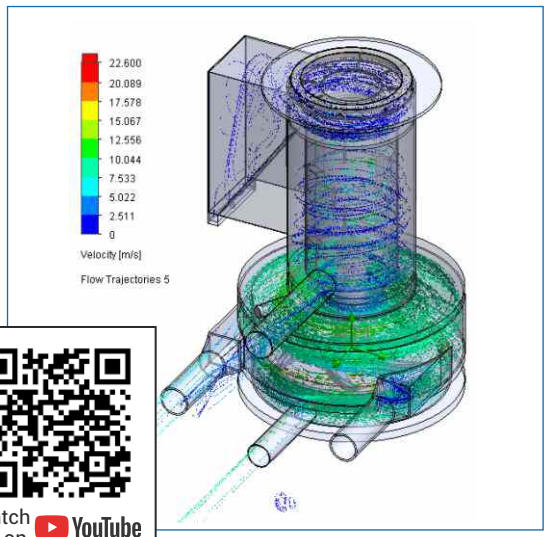
Combo Screen is a light reject handling coarse screen which is capable of de-flaking the stock simultaneously with cleaning and dewatering impurities from recovered fibre. Pulp enters tangentially from inlet. The perforated plate and the impeller fitted at the bottom ensures both the deflaking & cleaning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

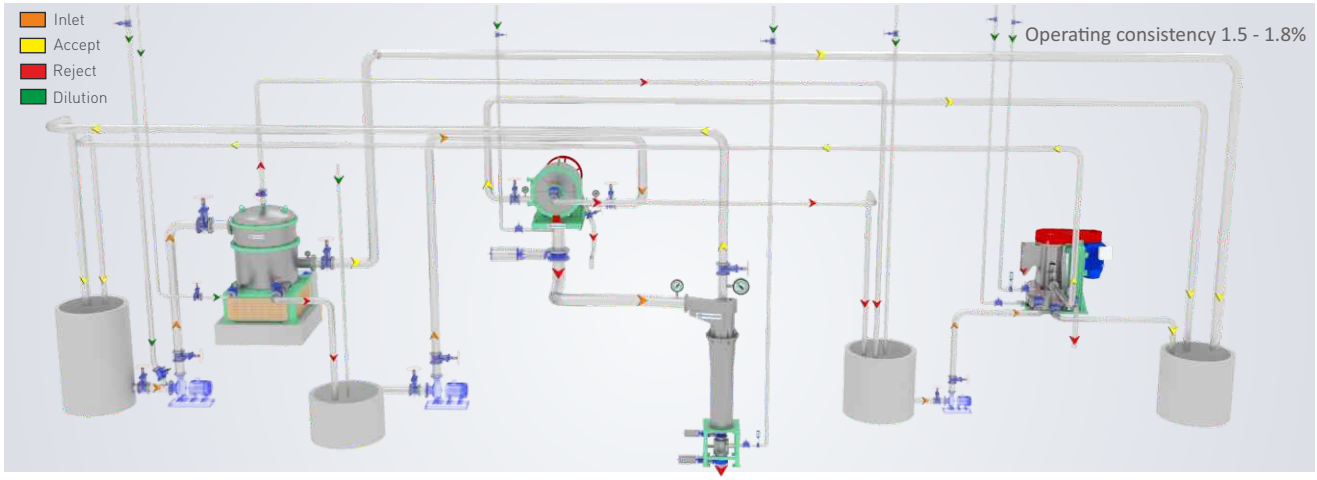
Benefits

- → Fibre recovery from all reject
- → Lower fibre 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

Fibre free reject of Parason Comboscreen

Successfully Commissioned In Suchi Paper Mill, Ghaziabad

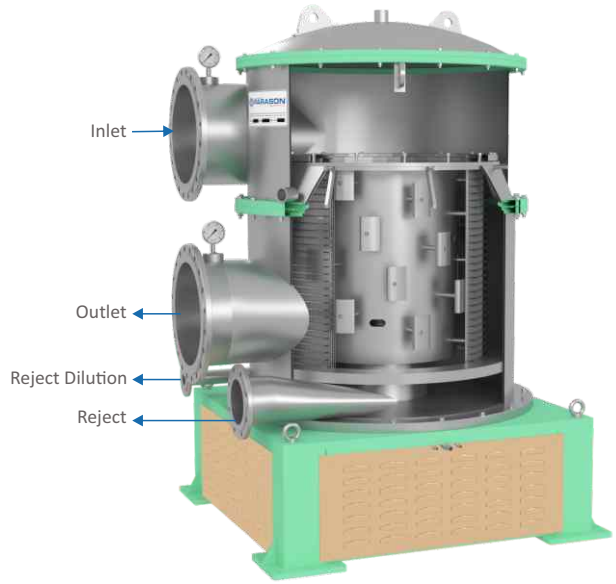


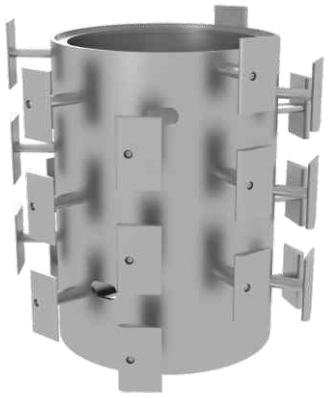


Technical Specifications:

MODEL	01	02	03
kw/RPM	75/1440	90/1440	110/1440
Pulp mill capacity (TPD)	100 - 150	150 - 250	250 - 500

FINE SCREENING

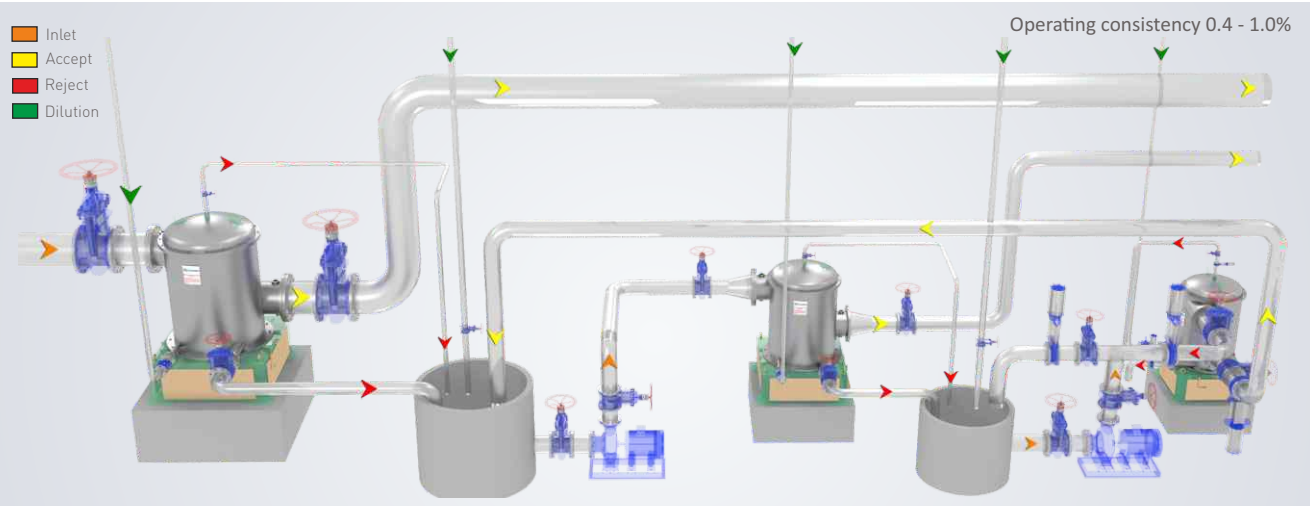




Application & Unique Features

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

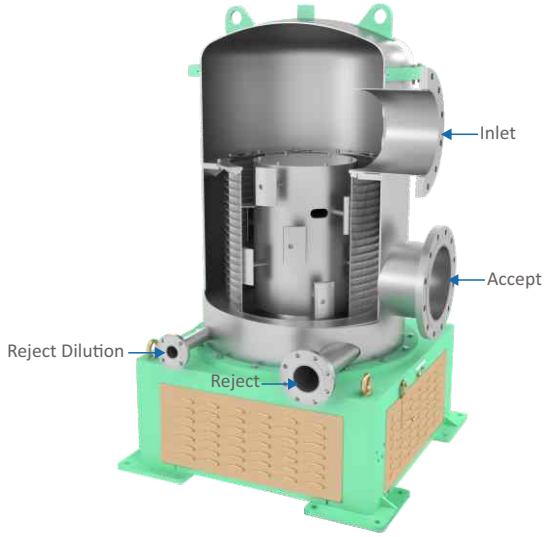


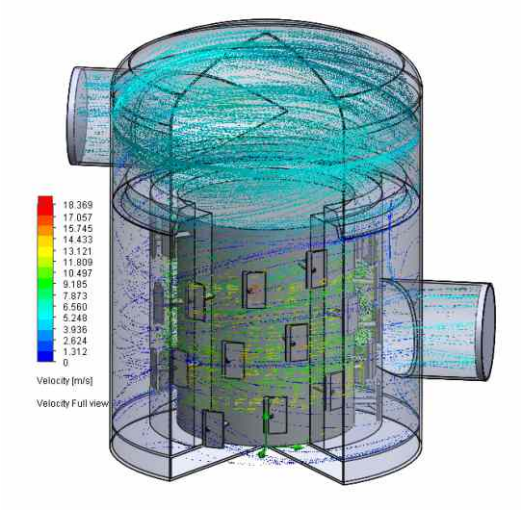
Technical Specifications:

MOTOR RPM = 1470*

MODEL VSL	4	5	7	6	8	9	10	11	12	14
BASKET AREA (Sq.m)	0.4	0.8	1.1	1.4	2.0	2.5	3.1	3.8	4.5	5.7
CAPACITY (TPD)	10-20	20-30	40-60	40-80	80-120	100-160	150-250	180-270	200-300	250-400
POWER (Kw)	22*	30*	37*	45*	45*	55*	90*	110/980	125/980	132/980

REJECT SCREEN - WASHING CYCLE



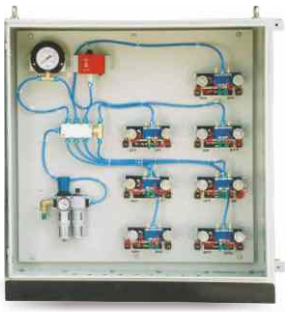


Application & Unique Features

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

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

Electric Panel with PLC



Pneumatic Panel

Technical Specifications:

MOTOR RPM = 1470

MODEL (VSMW/VSLW)	4	5	6	7
CAPACITY (TPD)	8-12	15-25	25-35	30-50
POWER (Kw)	22/22	37/30	45	55/45

FIBREMIZER

Application & Unique Features

Fibremizer 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 fibre flakes.

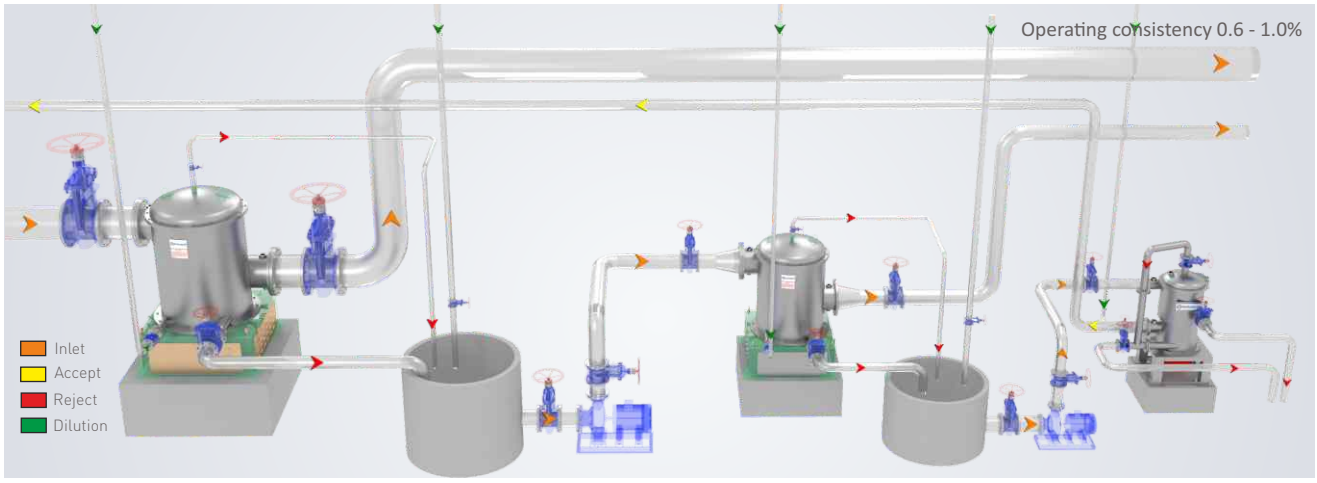
The paper stock enters tangentially into the feed chamber. The action between the rotor blades and defibrating ring bars creates mechanical shear which breaks down larger fibre flakes and bundles before they enter the screening zone. Due to the reduction in size, fibres pass through the screen basket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


Fibremizer installation at Mehali Papers

Advantages

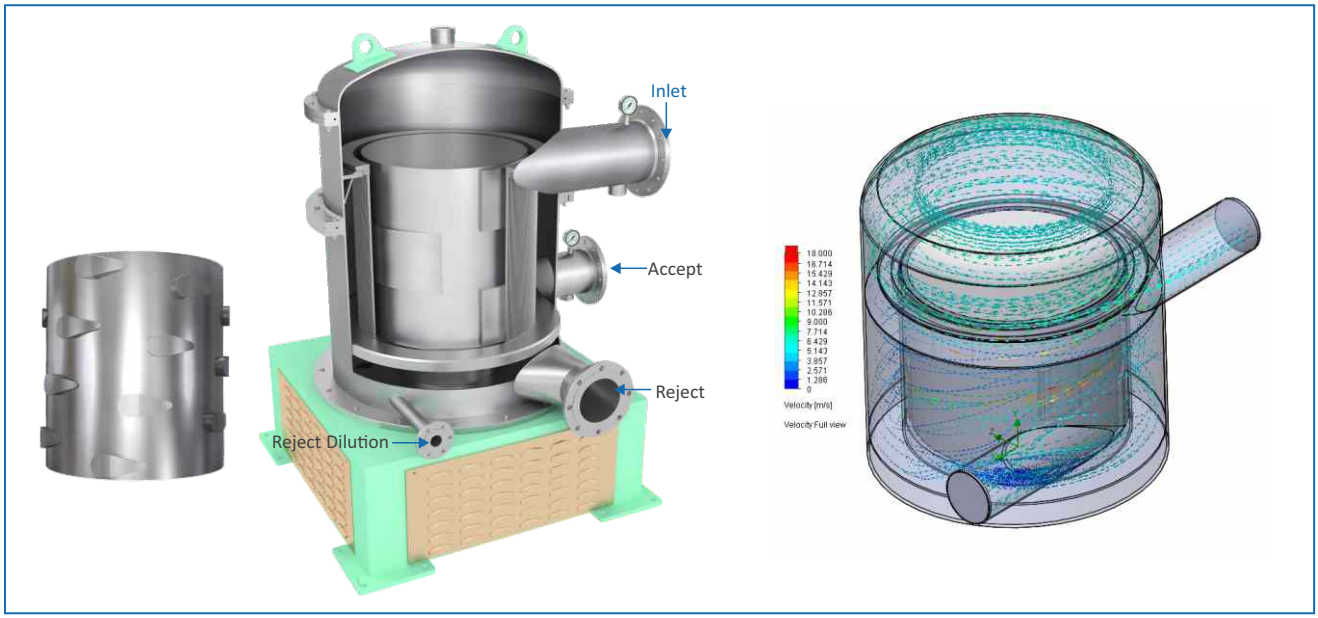
- → Max. fibre recovery & low power consumption
- → Effective reject handling
- → Useful where size of flakes is bigger with plastics



Technical Specifications:

FML MODEL	45	55
KW/RPM	45/1470	55/1470
Pulp mill capacity (TPD)	10 - 15	15 - 25

FRACTIONATOR



Application & Unique Features

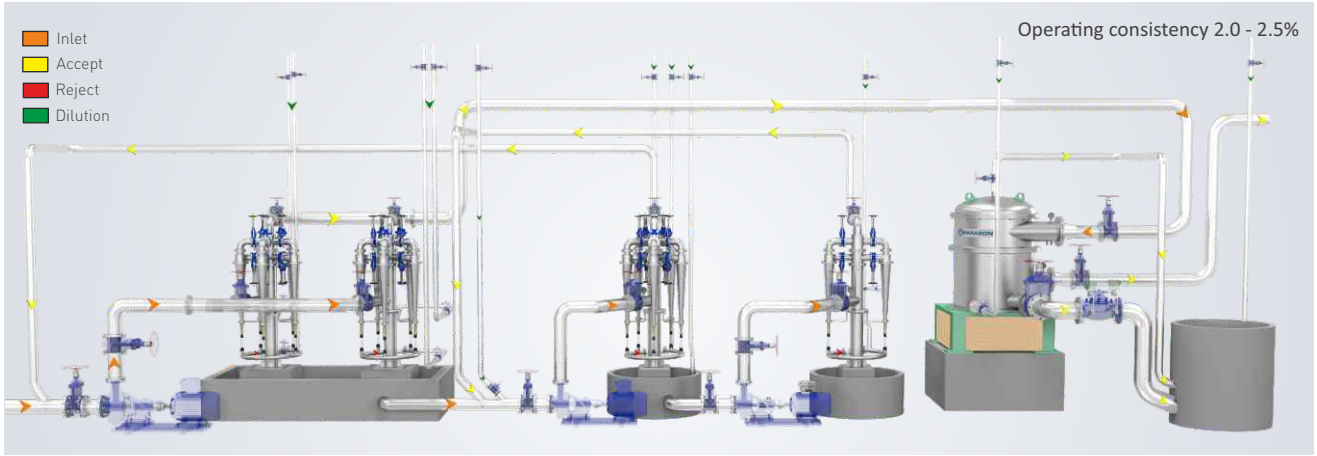
Parason Fractionator separates the fibres mainly by fibre length and are fitted with slot type baskets.

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 fibres and short fibers according to various characteristics, such as fibre length, type of fibre, etc

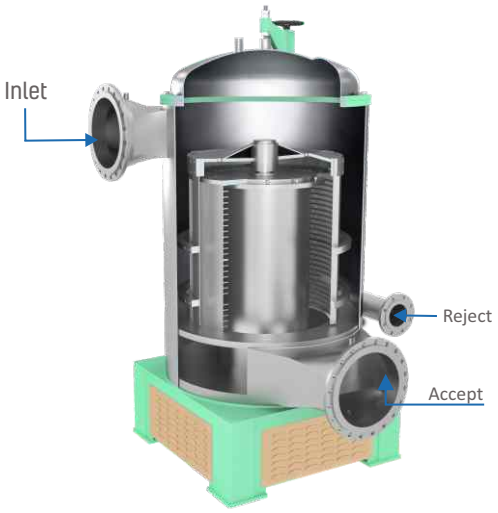
→ Depending on requirements, each fractioned pulp is then used directly for papermaking or undergoes further treatment



Technical Specifications:

MODEL (FSM)	08/05	10/06	10	12	15
CAPACITY (TPD)	80 - 120	130 - 280	200 - 280	300 - 380	400 - 500
POWER (Kw)	55	75	110	160	180
MOTOR (RPM)	1470	980	980	980	980

INFLOW PRESSURE SCREEN

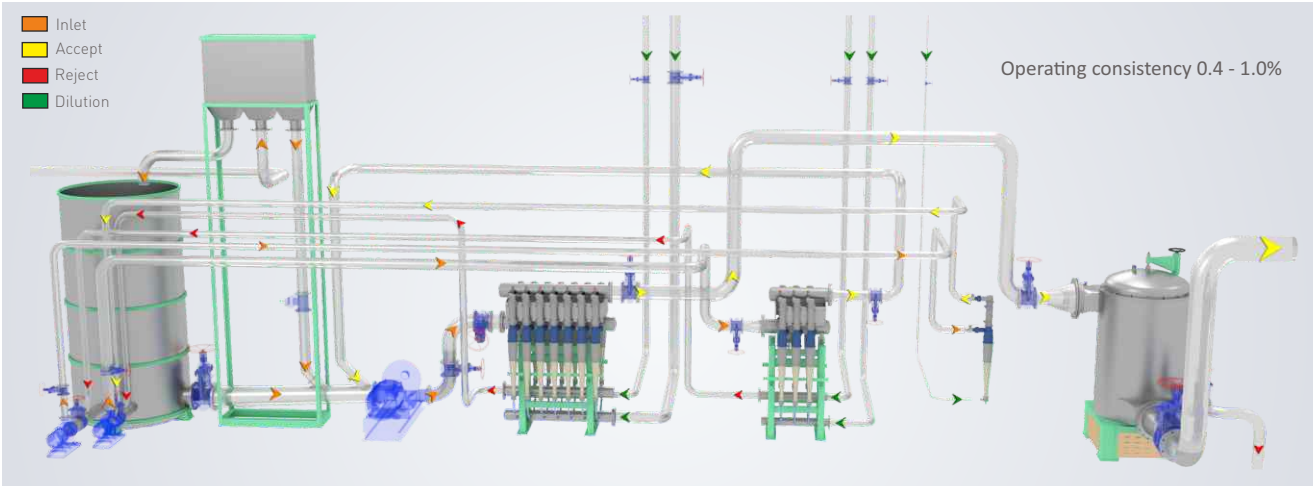


- High Throughput, **Lower Energy Consumption**
- Few rejects and higher obtaining rate of long fibres

Application & Unique Features

- → Reduced installation 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 fibre hitching. Automatic oil injection device, seal water detection alarm device ensures the safe running of equipment and reduced maintenance
- → Advanced structure, sturdy, durable, convenient dis-assembly and assembly, simple operation, less malfunctions for continuous working, low maintenance cost
- → Ideal for approach flow screening system

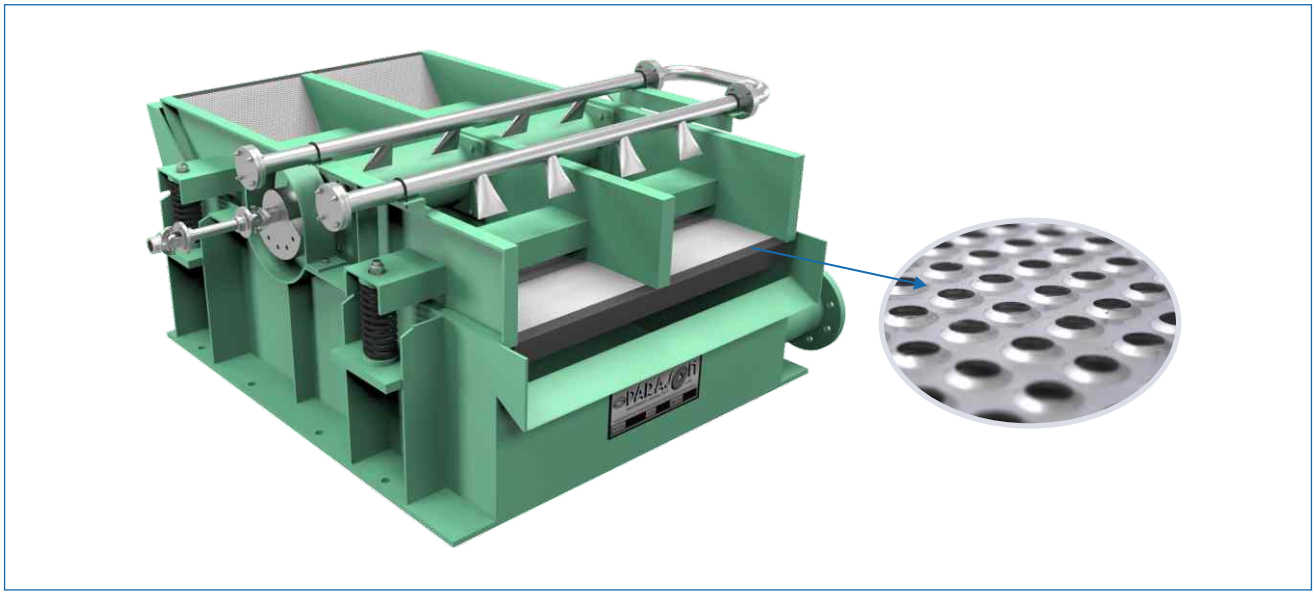
Parason Centripetal Basket



Technical Specifications:

MODEL VIS	4	5	66	8	10	12
TPD	10 -20	20 - 50	40 -70	60 - 120	100 - 200	200 - 300
POWER(Kw)/RPM	18-22/1470	22-30/1470	30-37/1470	37-45/1470	45-55/1470	75-90/980

VIBRATING SCREEN



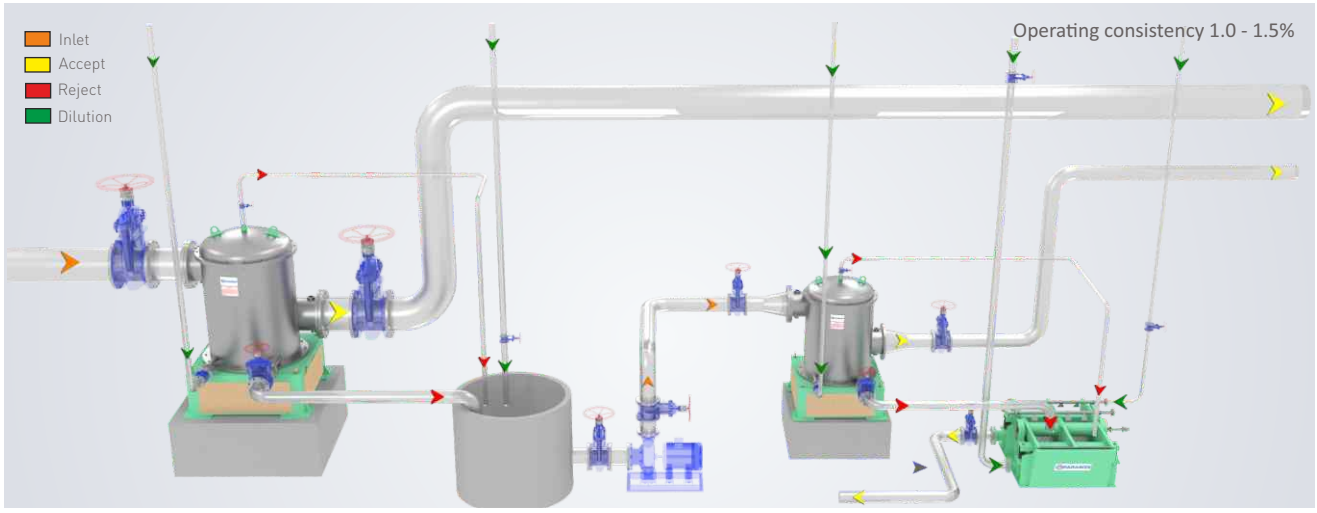
Vibrating Screen Separators in the Pulp and Paper Industry

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.

Light and heavy fractions from vibrating screen

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 Specifications:

MOTOR RPM = 1470

MODEL PVS	TPD	POWER (Kw)
1	4 - 5	3.7

UPFLOW SCREENING

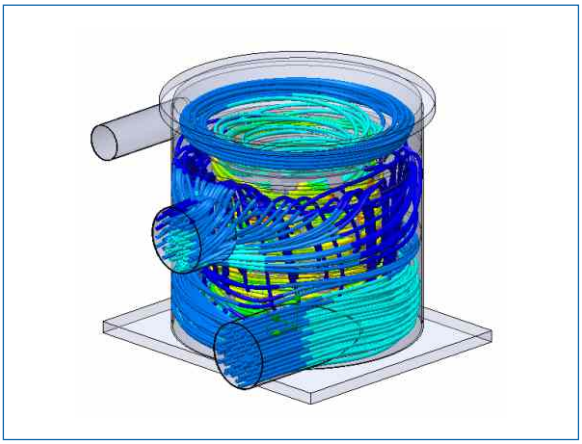
Application & Unique Features

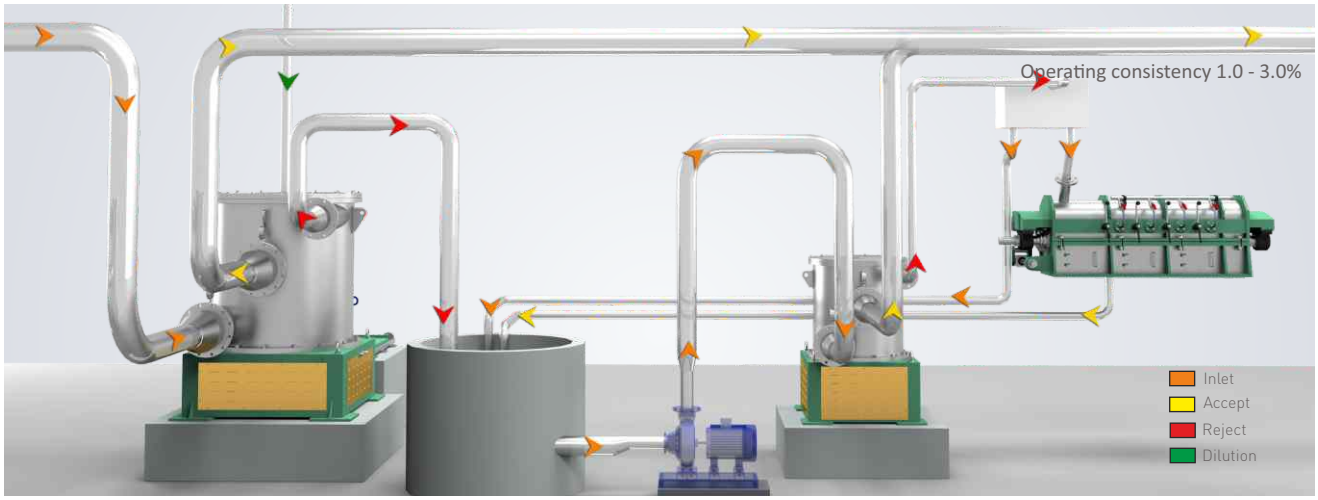
Parason Medium Consistency Screen with specially designed rotor is provided with both hole or slotted basket. The specially designed rotor with fabricated & contoured foils generates lower positive pulses and higher negative pulses. Hence takes low energy consumption and gives higher purging effect to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

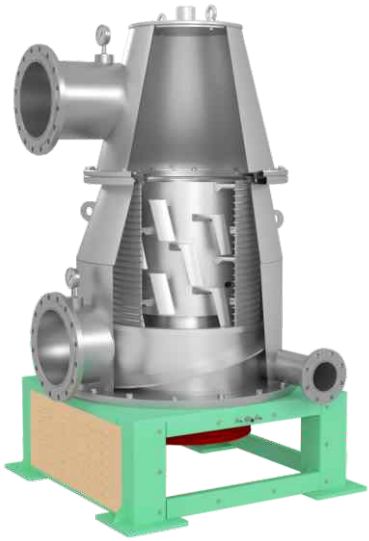


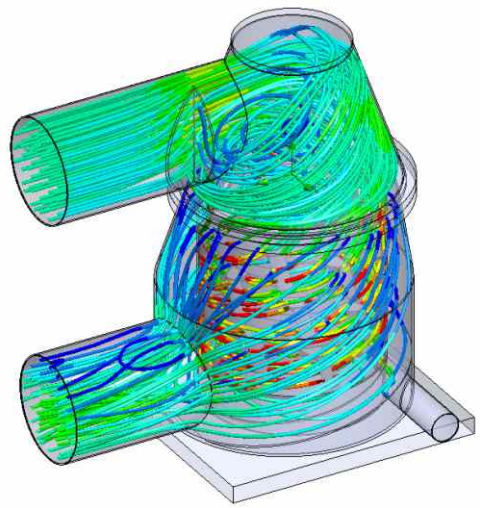


Technical Specifications:

MODEL (VSA)	4	5	6	8	10	12
CAPACITY (TPD)	20-40	40-80	80-120	120-200	200-450	350-550
POWER (kw)	30	37	55	90	132	200

SHIELD SCREEN



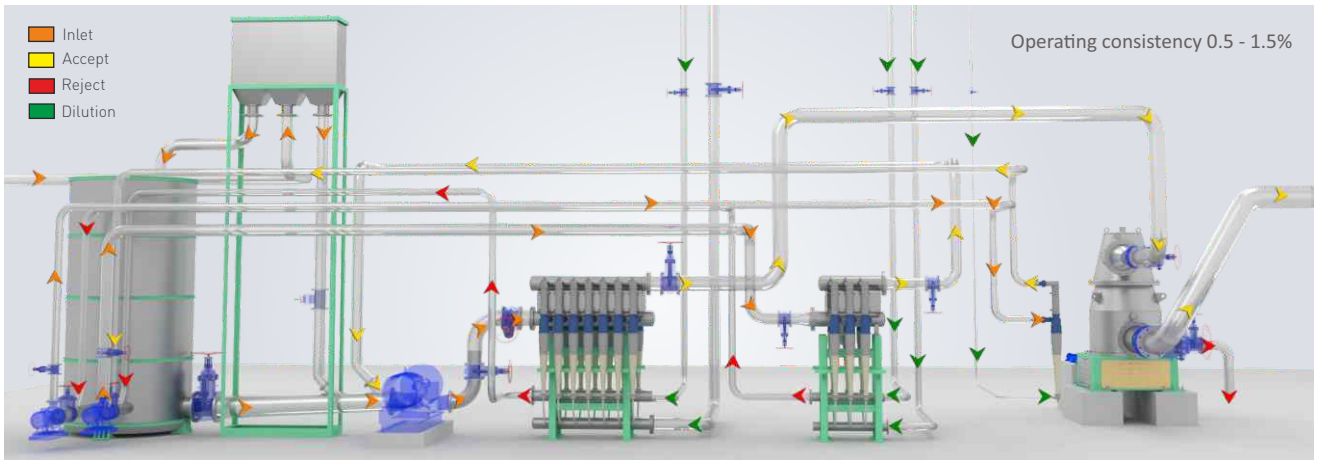


Application & Unique Features

Parason Shield Screen provides an efficient screening mechanism for reliable paper production. The newly developed Parason Shield Screen ensures an effective screening process at the approach flow. The head geometry and machine housing is excellently optimized that resulting in increased productivity of the Shield Screen.
The screen basket is positioned eccentrically which helps in avoiding deposits and stringing caused by unequal flow patterns. Parason Shield Screen gives operational reliability at a relatively lower cost.

Application & Unique Features

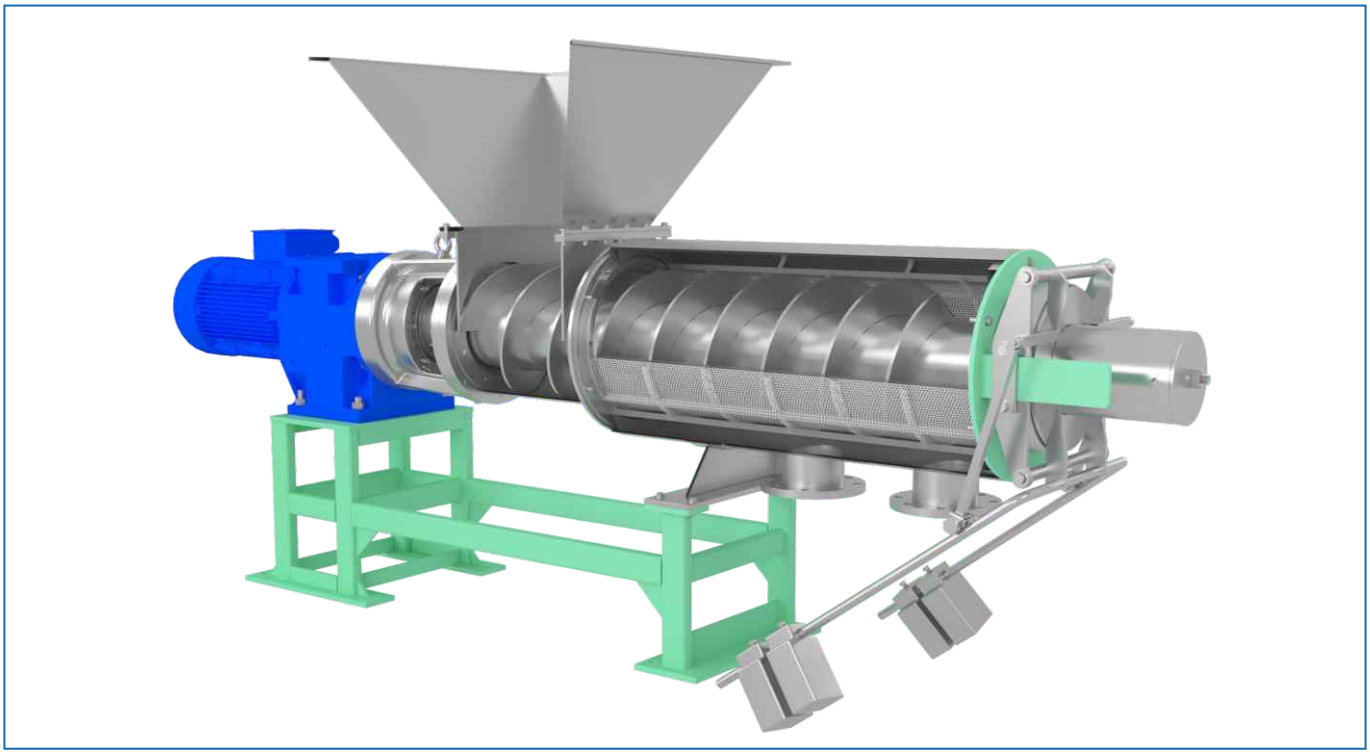
- → Enhanced runnability of the machine
- → Increased production capacity
- → Pulsation free screen
- → Lower maintenance cost
- → Improved operational reliability
- → Specially designed for approach flow



Technical Specification:

MODEL(PSS)	5	6	8	10	12	12/15	15	15/18
POWER (Kw)	30	37	45	55	90	110	132	160
SPEED (Rpm)	1500	1500	1000	1000	1000	1000	750	750

FAN PRESS



Working Principle

Parason Fan Press is developed with pioneering technology to separate wastewater into its solid and liquid components. Fan Press is a combined innovation of filter and press techniques that help to achieve clean water and dry solid particles.

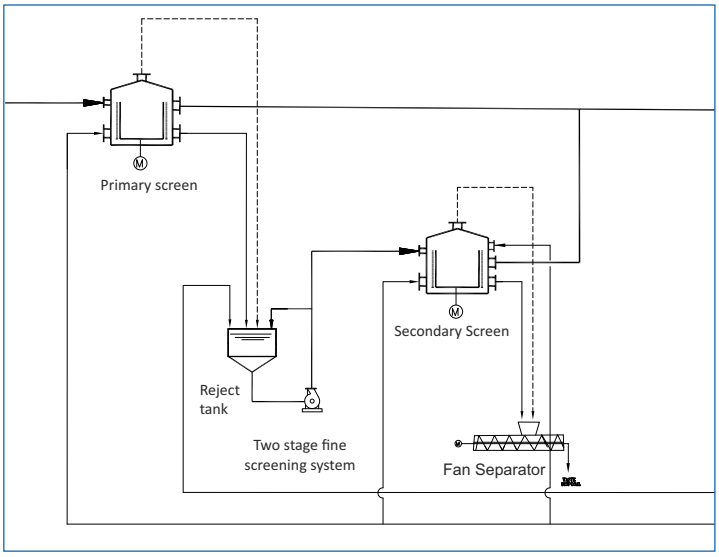
Parason Fan Press machine separates the solids from liquid to achieve the desired consistency of the end product. The solid particles exit the process in a drip-free form. Compared to the conventional separator, the Parason Fan Separator is compact, maintenance-friendly, and time and cost-efficient.

Special Features

- → Efficient dewatering of fine and coarse rejects
- → Dewatering fibrous effluent & sludge
- → Cleaning of process wastewater
- → Replacement of belt presses & centrifuges

Advantages

- → Compact design requires less floor space
- → Excellent fiber recovery from wastewater
- → Great time & cost savings
- → Low maintenance requirements

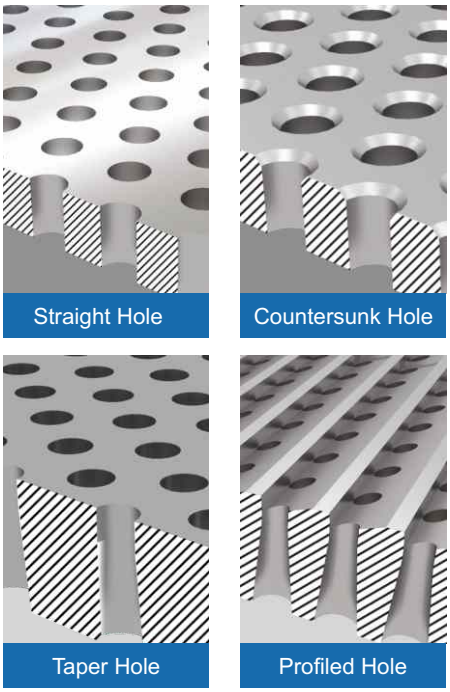


Technical Specifications:

PFP Model	PFP 400	PFP 600
Power (kW)	30	45

HOLE BASKETS

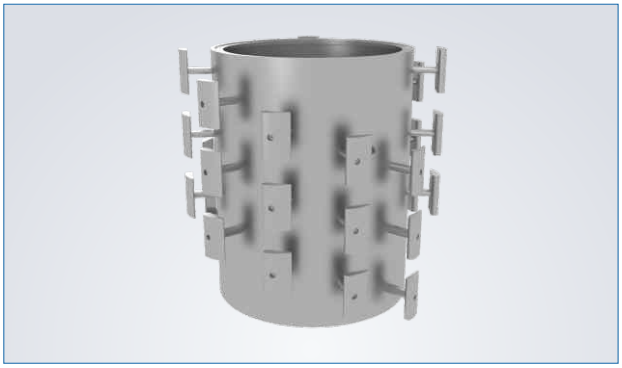
Isometric View



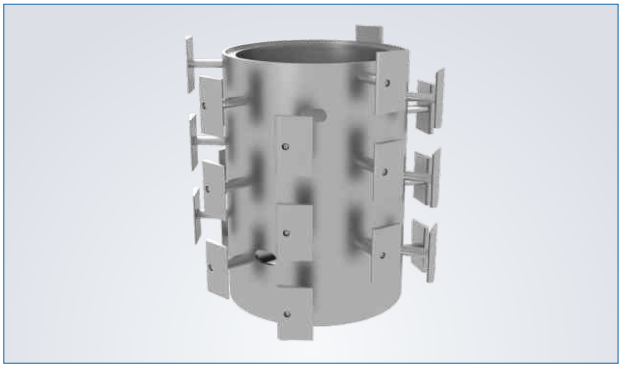
Constant advances in our manufacturing methods yield the highest precision in different hole designs and roundness of the screen baskets. Each screen goes through hard-chrome process for wear resistance quality which increases basket life.

SLOTTED BASKETS

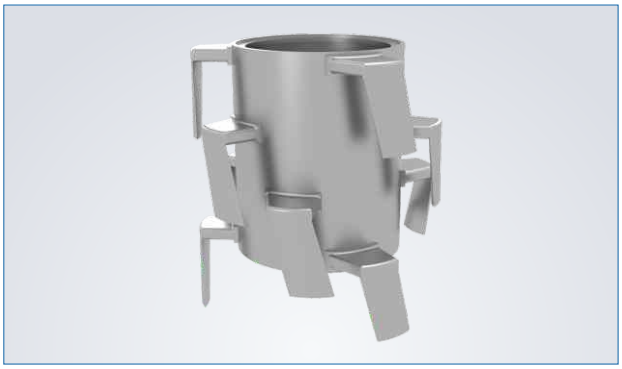
RANGE OF DIFFERENT ROTORS



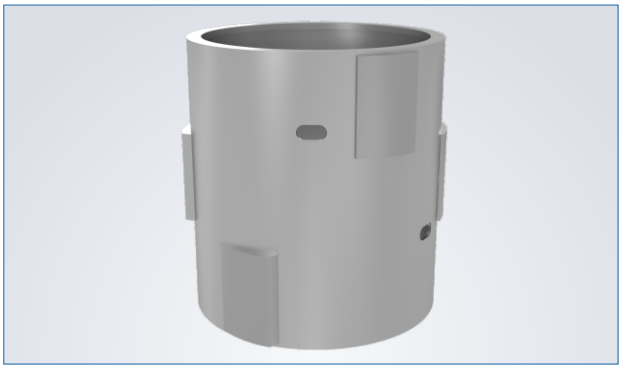
HGH Rotor



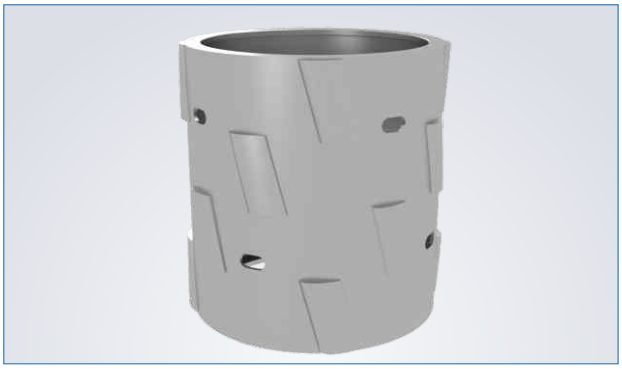
VSL Rotor



Multivane Airfoil Rotor



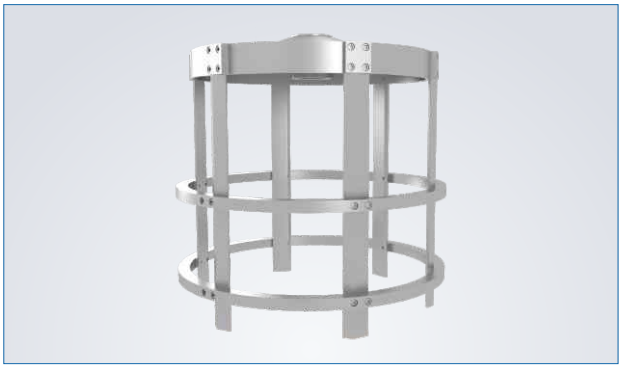
VSM Rotor Vane Angle



CrocX Rotor

VSM Rotor

Step Rotor



Centripetal Rotor

SCREEN DATA SHEET

Company/Location: _____

Prepared By: _____ Date: _____

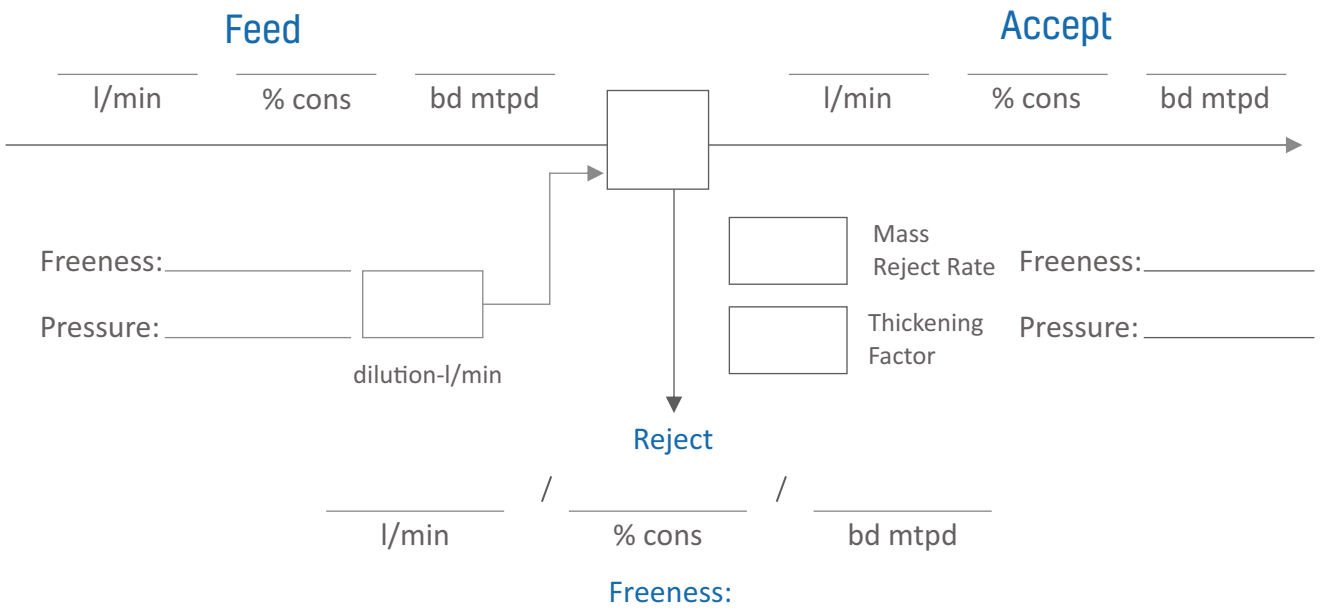
Screen Position: _____

Screen Make and Model: _____

Type of stock: _____

Goals: _____

FLOW DATA



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: _____ slot width _____ slot pacing

Drilled: _____ hole diameter _____ open area

Profile Type: _____

Normal Basket Life: _____

Coating: None, Chrome, Other _____

COMPLETE TURNKEY ENGINEERING SOLUTIONS

50 TPD TO 1000+ TPD CONCEPTION TO REALIZATION...!

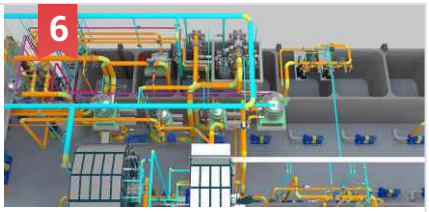
Equipment sizing

Layout drawing with optimum area

Pump sizing

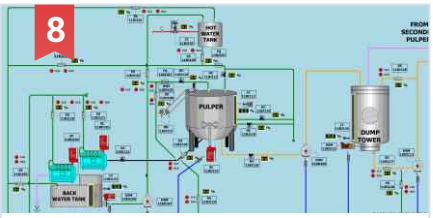
Power requirement evaluation

Mass balancing



Piping layout

Instrumentation design

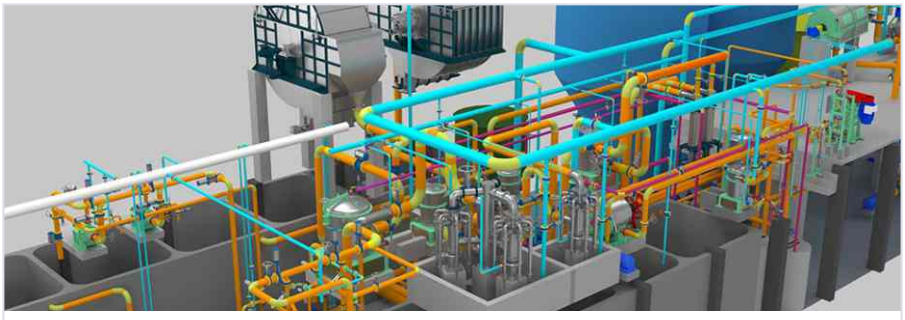


DCS Engineering

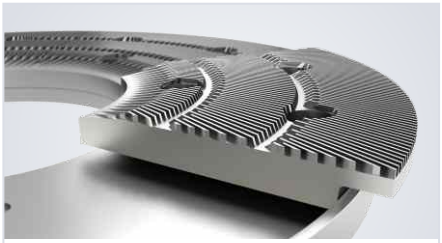
Control Philosophy of Plants

SERVICES & SOLUTIONS


Pulp Mill Audit


End To End Engineering Services


Screening Audit


Refining Audit


Paper Machine Audit

Note

Date:

PARASON

Engineered Trust

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