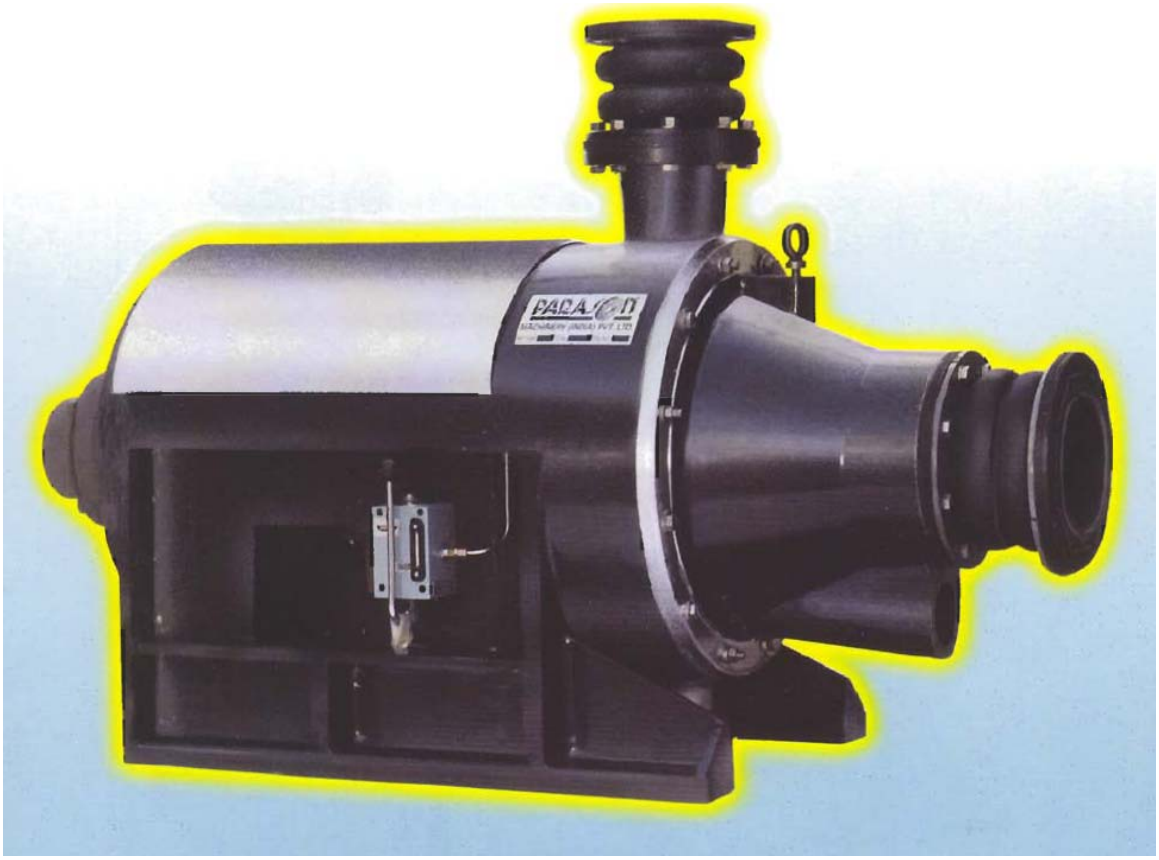
SPINNAKER CORPORATION

EQUIPMENT AND PROCESS SOLUTIONS

PARASON CONFINER

A Novel Introduction to Technology

- Vortex centrifugal flow
- Stable gap
- Uniform refining
- No load power is low
- Low intensity refining
- Easier de-watering and drying
- 4 – axis patterns generation
- Cantilever construction
- A foreign material arrester
- Higher bearing life
- Minimum 2-3 time work life of tackles
- Strong and robust construction



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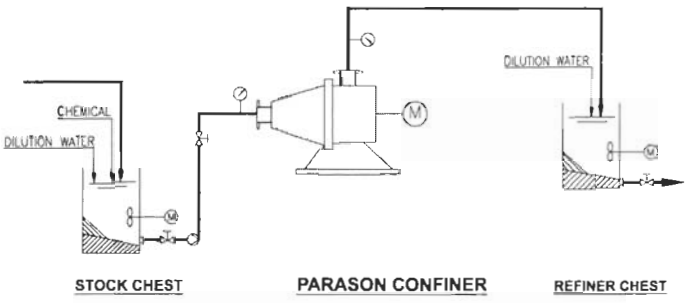
PARASON CONFINER

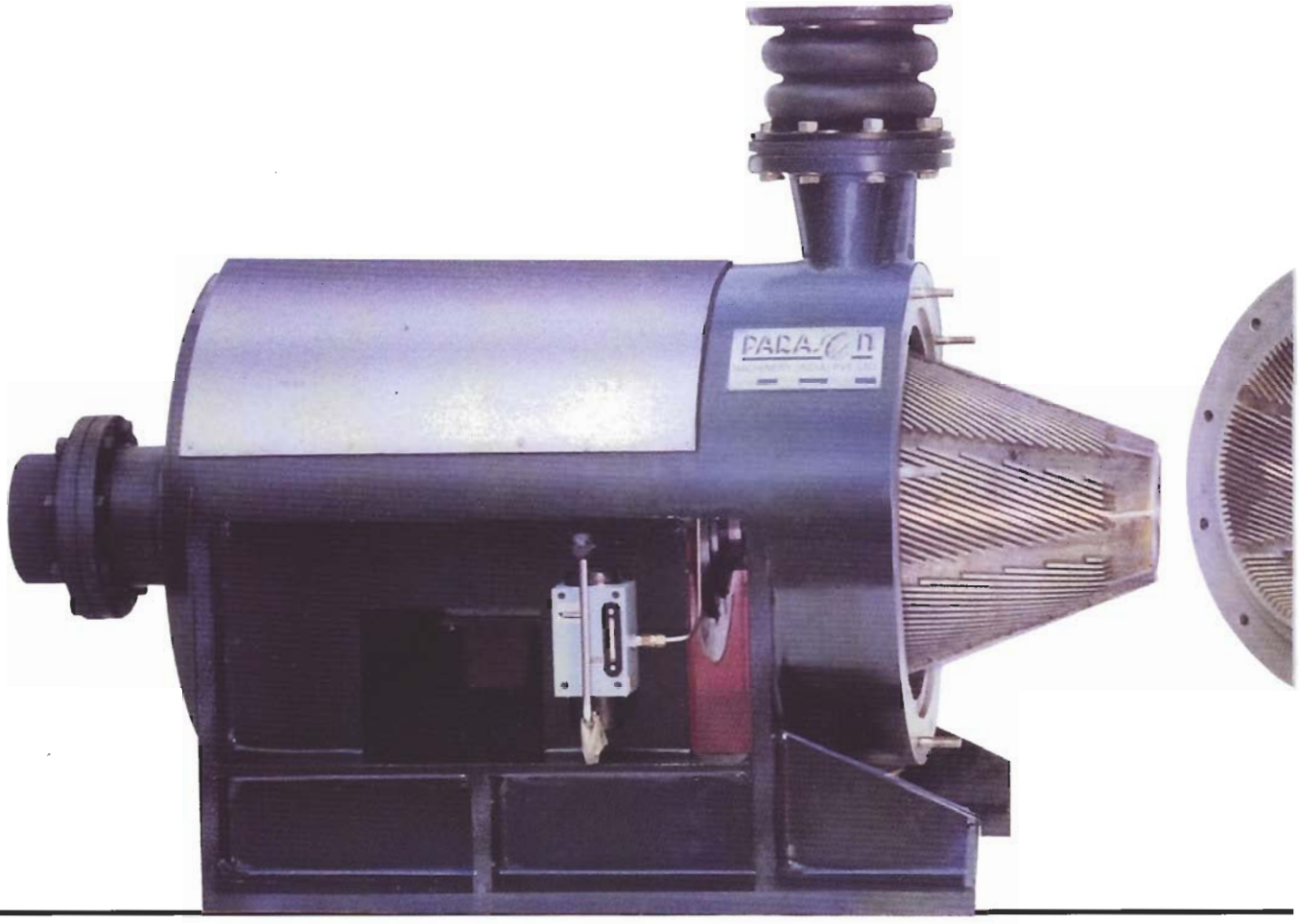
Refining is the back bone in stock preparation stage as well as paper making. Hence each and every paper mill is trying to adopt latest technology in refining. PARASON CONFINER is a modified conical refiner designed to enhance the bonding ability of fibres with a minimized freeness drop and minimum decrease of fiber length with low energy consumption and easy maintenance.



PARASON CONFINER FILLINGS

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

- Different patterns available in conical type
- Patterns manufactured on high precision
- Conflow tackles manufactured in Alloy steel with excellent workmanship.
- Low intensity refining, uniform refining, best fiber development still at lower power consumption.



GENTLE FIBER TREATMENT

Geometry of the 'Parason Confiner' is quite different from the conventional Double Disc Refiner. The fiber development (treatment) depends on

- Amount of the fibers between refiner bars
- Stability of the gap clearance.

Greater the amount of fibers on bar, gentle will be fiber treatment.

Higher amount of the fibers on the bar results in better stability of the gap clearance, better fiber development and lower energy consumption.

DESIGNING FACTORS

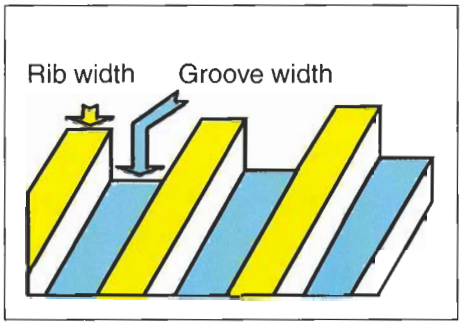
- Assurance of correct fiber retention time and development of desired fiber properties due to short shadow cone angle and large refining surface area.
- Easiest filling charge due to cantilever design.
- Loading – unloading with hydraulic power pack system for fully auto control operation.
- Stable operations and accurate gap control provide stable loading.
- Fast loading – unloading and slow loading unloading modes of operation.
- Compact construction reduces floor space requirements.
- Exceptionally low-no-load power consumption rises the effective power.

ADVANTAGES OF CONFINER FOR PAPER MAKING

- Improved paper quality due to uniform fibre treatment and excellent fibre development.
- Higher paper production and better strength properties due to easier de-watering and drying in paper machine.
- Better retention of fibres and fines.
- Lower energy consumption.
- Minimum process down time as easier maintenance and quicker change of fillings.

PARASON CONFINER FILLINGS APPLICATION DATA

Type	Rib Width	Groove Width	P - Parason
PSF	2.0	3.0	SF - Short Fiber Fine
PSM	2.5	3.5	SM - Short Fiber Medium
PSC	3.0	4.0	SC - Short Fiber Coarse
PLF	4.0	5.0	LF - Long Fiber Fine
PLM	4.5	6.0	LM - Long Fiber Medium
PLC	5.5	7.0	LC - Long Fiber Coarse
PFS	4.0	3.0	FS - Fibrillating Short
PFL	8.0	5.0	FL - Fibrilating Long
PTM	3.0	7.0	TM - Trimming Medium
PTC	4.5	8.5	TC - Trimming Coarse
PMX	4.5	3.6	MX - Mixed Fiber



TECHNICAL DATA

MODELS		CR-25	CR-35	CR-45
CAPACITY	TPD	10-15	20-50	70-200
Operating consistency	%	4-6	4-6	4-6
Power rating	HP	25-60	90-150	150-300
Refiner RPM	RPM	960	960	960
Inlet stock pressure	Kg/ cm2	2	2	2
Approximate weight	Kg.	300	700	1000

MANUFACTURING FEATURES

Main Body	M.S. fabricated and stress relieved.
Refining chamber	S.S. 304.
Shafts	Precisely ground finished shafts made in SAE-8620 forging case carburised and hardened.
Parts in contacting stock	Stainless steel casting grade SS-304.
Gland system	Stainless steel grade SS-304 gland sealing with cooling system.
Coupling	Gear coupling with long slide crowned teeth induction hardened.
Bearing	Standard make.
Adjustment of Tackle	By manual or through hydraulic power pack (optional) operated control system.
Power Saving System	Optional.
Auto Control System	Optional.

- Throughput depends on pulp grade, consistency & specified technological properties.
  Hydraulically attainable maximum throughputs are substantially higher.
  Upon request data will be indicated after our engineers have studied your requirements.
- Due to constant research and development specifications are subject to change.

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