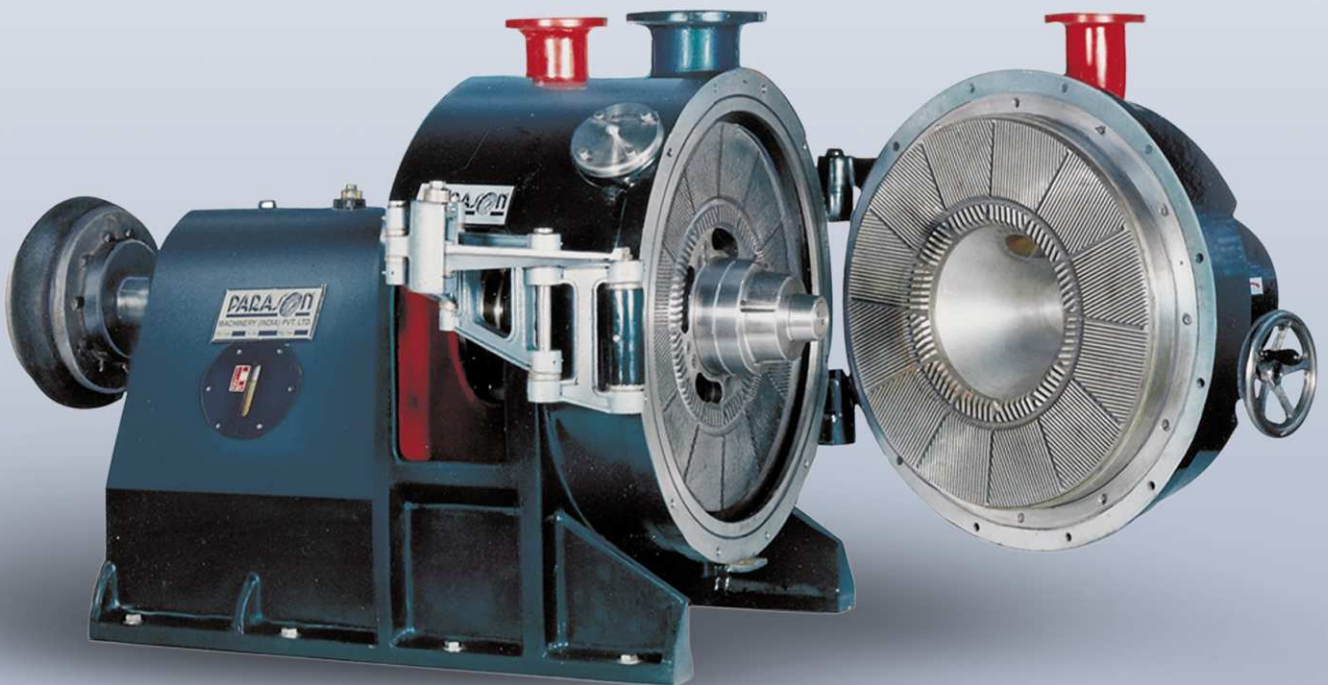


# PARASON TWIN DISC REFINER

**PARASON Twin Disc Refiner**  
available in different sizes for  
small, medium and large scale  
paper mills.





## CONTROL POWER CONSUMPTION

Special feature to operate refiner with full auto control mechanism with SP ( Set Point ) feature saves power with uniform refining.



## OIL BATH

This is the only system that provides positive lubrication to the bearings. The continuous feeding of oil ensures soft, smooth, trouble free & vibration less operation of the PARASON REFINER.

## SPLINED SHAFT

Splined shaft technology has enabled to reduce weight of shaft assembly. PARASON TDR is manufactured with splined shaft to achieve easy movement flotation of rotor. Uniform wear of discs on both faces.



## VIBROPORT ANALYSER

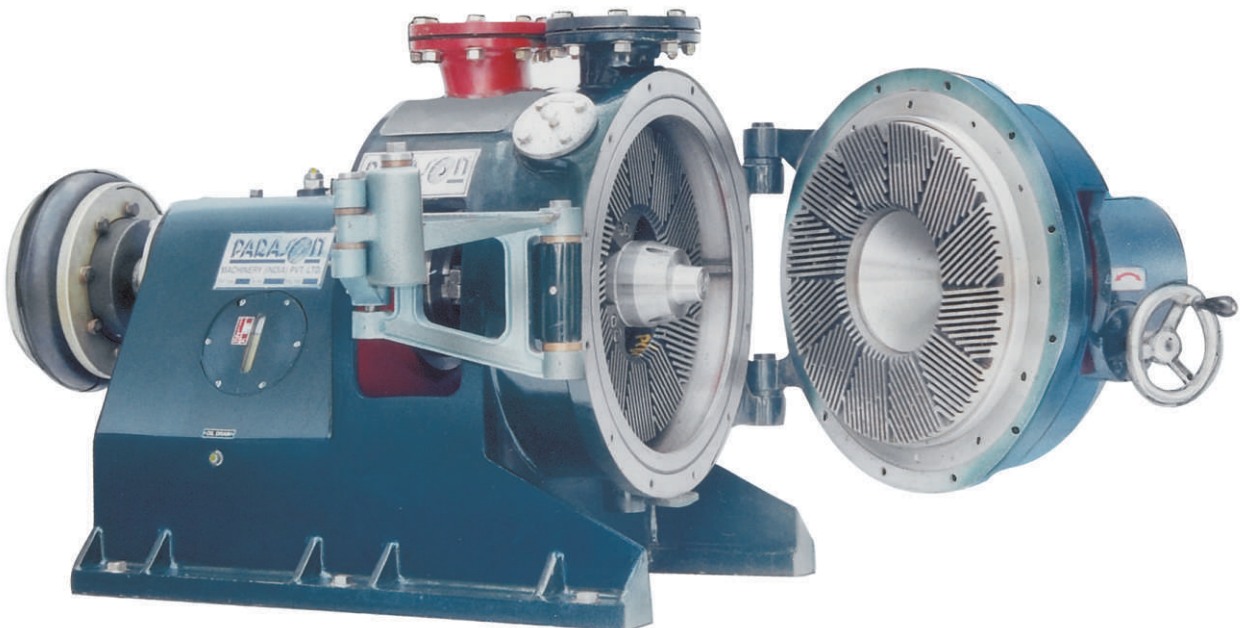
A unique schenck Germany analyset to analyse

- Spectrum of frequency
- Tracking
- Transfer
- Balancing
- Alignment
- Bearing vibration
- Bearing condition
- Shaft vibration
- Shaft vibration sumax
- Temperature
- Sound
- Axial position
- Process parameter
- Oscilloscope
- Ultramodern technology analysis of overall evaluation.



## EXCLUSIVE FEATURES :

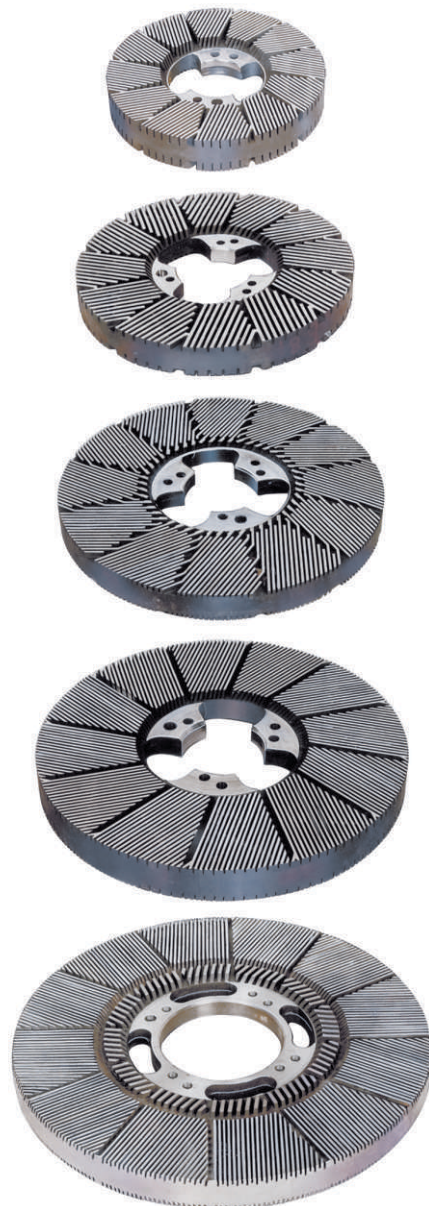
- ◆ Replaces gear coupling by tyre coupling
- ◆ Sturdy and speedy operation
- ◆ Consumes less power
- ◆ Virtually maintenance free operation
- ◆ Uniform wear of plates on both faces is achieved





# PARASON REFINER FILLINGS

- ◆ Wide range of metallurgies developed for industry needs.
- ◆ Various patterns & bar design available.
- ◆ Custom designed plates are developed in shortest time on CNC
- ◆ Continuous development of new cost-effective material and designs.



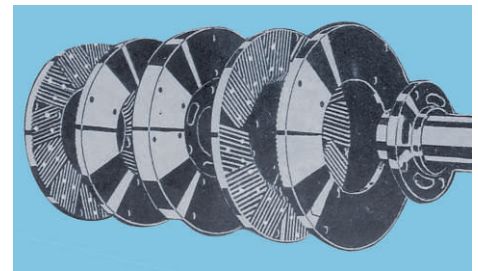
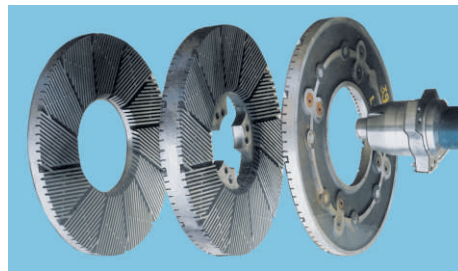
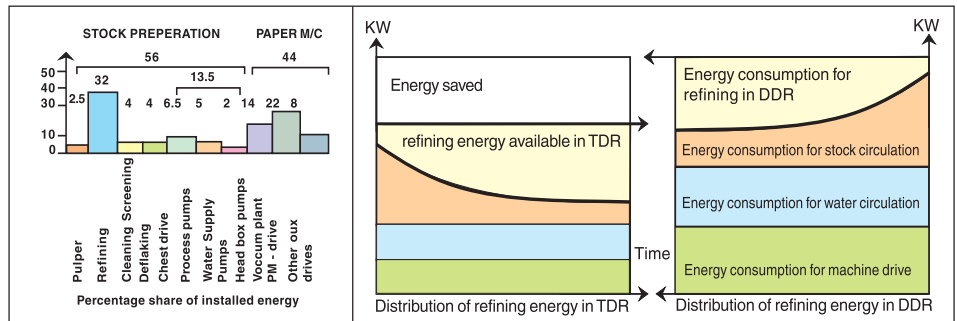
## PARASON - The Prime source for Refiners & Refiner Plates...

Compact, sturdy, latest mechanism and most important the refiner plates bar designs to suit specific applications are special features. TDR is the result of ACCUMULATED PRECISION making this machine so unique in the paper world. Parason has more than 2000 installation within a span of 15 years is direct indicator of its super performance.

### FURTHER REFINING OF REFINER :

The inclusion of splined shaft technology in Parason TDR, permits rotor movement with longer force resulting in uniform floating conditions under stock pressure of 1 - 2 kg/cm<sup>2</sup>.

The use of unique and high technology of centrifugally casted martensitic stainless steel shaft sleeves offers maintenance free working for year and years.



### PARASON TDR

- ◆ Rotor 60% lighter
- ◆ 180% larger opening
- ◆ No bolting on surface
- ◆ Larger refining area
- ◆ Saves energy by min. of 20%
- ◆ Less change out time
- ◆ Low cost per tonne

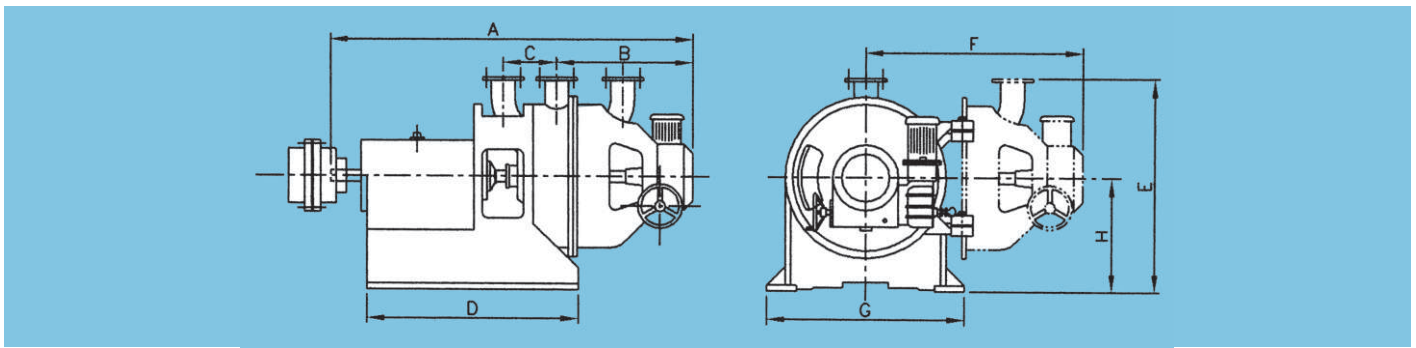
### CONVENTIONAL DDR

- ◆ Heavy rotor
- ◆ Bolts on bar surface – reducing refining area
- ◆ On run breakages occur
- ◆ Higher energy consumption
- ◆ Poor life
- ◆ More down time for plate change

No.	Particulars	Parason TDR	Conventional DDR
1.	Bar height	12 – 14 mm *	6 – 8 mm
2.	AVG bar height	13 mm *	7 mm
3.	Total No. of refining surface	4	4
4.	Total bar height	52 mm	28 mm
5.	Min. wastage / side	2.5 mm	2.5 mm
6.	Total wastage	10 mm	10 mm
7.	Net usable BAL height	42 mm	18 mm

\* Influence on, throughput/ power / life

**PARASON TDR plates last longer 2.5 to 3 times.**



## GENERAL DIMENSIONS

Type	A MM	B MM	C MM	D MM	E MM	F MM	G MM	H MM	Disc MM
TDR - 13	1325	470	235	750	650	600	530	340	330
TDR - 17	1455	520	240	795	745	760	620	410	420
TDR - 20	1660	636	260	1000	900	930	760	500	508
TDR - 22	1700	665	250	1000	1000	1035	760	500	560
TDR - 24	1700	665	250	1000	1000	1035	760	500	610
TDR - 26	2250	800	300	1300	1250	1095	935	650	660
TDR - 28	2250	800	300	1300	1250	1095	935	650	711
TDR - 30	2250	800	300	1300	1250	1095	935	650	762
TDR - 34	2750	950	350	1600	1500	1150	1200	750	864
TDR - 38	2750	950	350	1600	1500	1150	1200	750	965

## TECHNICAL DATA

Models		*TDR-13	TDR-17	TDR-20	TDR-22	TDR-24	TDR-26	TDR-28	TDR-30	TDR-34	TDR-38
Hydraulic Capacity	Tpd	10 - 15	15 - 45	20 - 70	30 - 80	40 - 120	80 - 140	80 - 160	80 - 200	100 - 300	120 - 450
Consistency	%	3.5 - 6.0	3.5 - 6.0	3.5 - 6.0	3.5 - 6.0	3.5 - 6.0	3.5 - 6.0	3.5 - 6.0	3.5 - 6.0	3.5 - 6.0	3.5 - 6.0
Motor Rating	Hp	30 - 60	100 - 150	200 - 300	300 - 350	350 - 450	500 - 550	550 - 600	600 - 650	700 - 900	900 - 1200
Refiner Speed	Rpm	960	960	960	960	720	720	600	600	600	525
Stock Inlet Pressure	Kg/Cm2	1.5 - 2.0	1.5 - 2.0	1.5 - 2.0	1.5 - 2.0	1.5 - 2.0	1.5 - 2.0	1.5 - 2.0	1.5 - 2.0	1.5 - 2.0	1.5 - 2.0
Approx. Weight	Kg	500	700	1600	2100	2500	3000	3000	3000	4500	4500

## MANUFACTURING FEATURES

Cylinder Housing	S.G. Iron (IS-1865-1974)
Main Body	M.s. fabricated and stress relieved
Shafts	Precisely ground finished splined shafts made in SAE - 8620 forgings case carburised and hardened.
Parts contacting stock	Stainless Steel casting grade SS-304
Packing box system	Stainless Steel grade SS-304 gland sealing with cooling system
Coupling	Tyre, Gear
Bearings	Standard make
Adjustment of disc	By manual or auto-operated control system panel with dual speed gear motor.
Auto Control system	Optional

**\*TDR-13 is in plain shaft model, with geared coupling.**

- ◆ 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.



## PARASON MACHINERY (I) PVT. LTD.

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*Parason... Leader in stock preparation*