

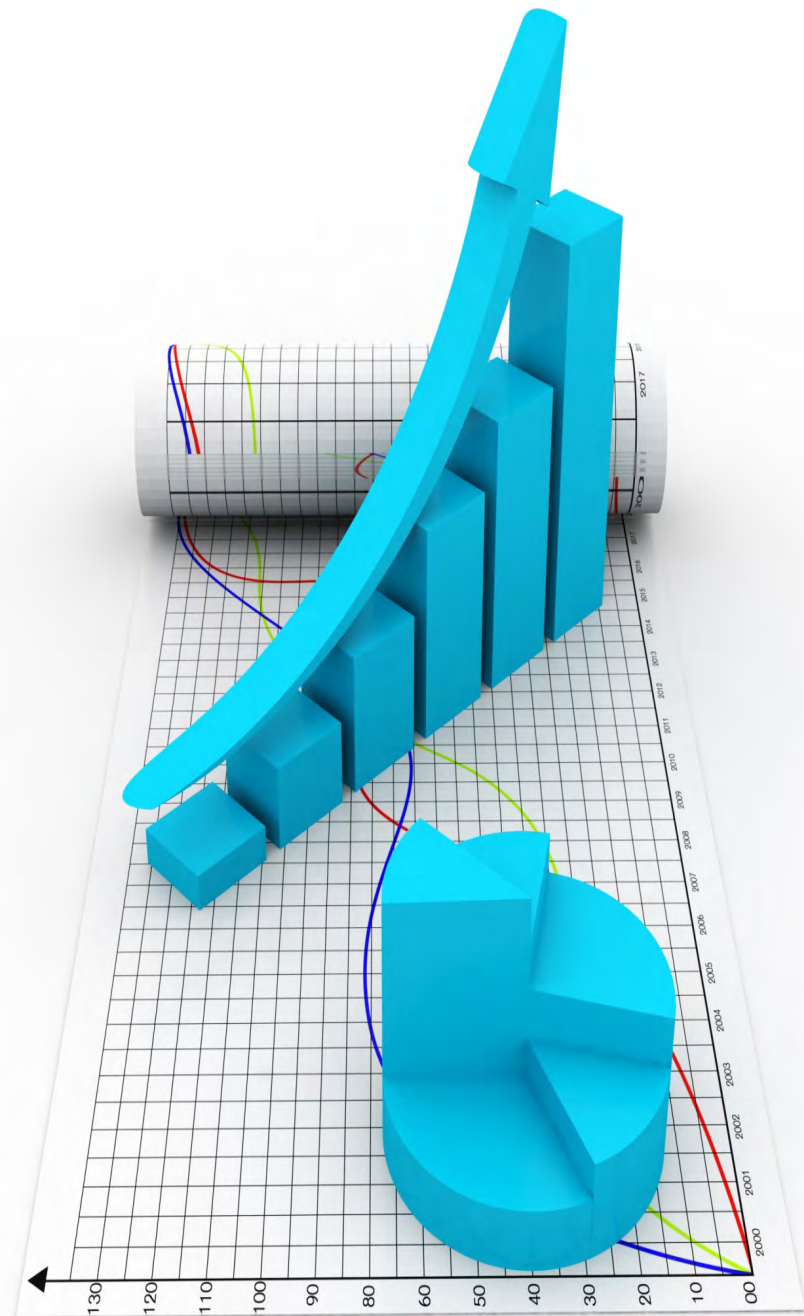


PARASON MACHINERY INDIA PVT LTD

Parason... The Refining People



SPINNAKER CORPORATION
EQUIPMENT AND PROCESS SOLUTIONS





Parason General Info

- Started in 1970 to manufacture stainless steel refiner plates for local paper mills.
- Today there are casting facilities with DCS controlled electric furnaces of 100kg, 300kg, and 600kg pour capacity.
- Two manufacturing and fabrication facilities house in-house engineering, welding, fabricating, machining and assembly cells. Most machine tools are CNC, and all shop management personnel are trained in 6-Sigma and other quality disciplines.
- A separate Research & Development facilities houses the research and quality control engineers, metallurgical and physical testing devices, and precision measurement equipment..



Parason World Wide

International Office

Jakarta
Surabaya

USA

- Spinnaker Corporation

Europe

- Germany
- Sweden
- Spain And Portugal
- Poland
- Switzerland
- Austria
- Italy
- Finland
- France

Latin America

- Brazil
- Argentina
- Colombia
- Ecuador
- Mexico



South East Asia

- Bangladesh
- Thailand
- Malaysia
- Vietnam
- Taiwan
- China
- Philippines
- South Korea
- Australia
- Pakistan
- Nepal

Africa

- South Africa
- Kenya
- Tanzania
- Uganda
- Nigeria
- Congo
- Algeria
- Egypt
- Turkey

Middle East

Gulf

- Dubai
- Iran
- Kuwait
- Syria
- Jordan
- Lebanon
- Saudi Arabia

R&D and Testing Facilities



PARASON MACHINERY INDIA PVT LTD

Parason... The Refining People

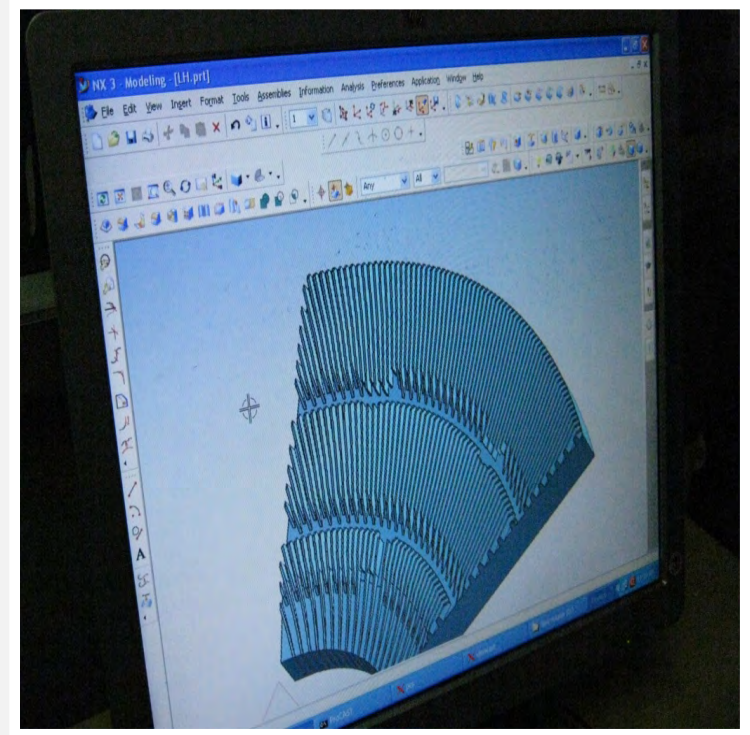
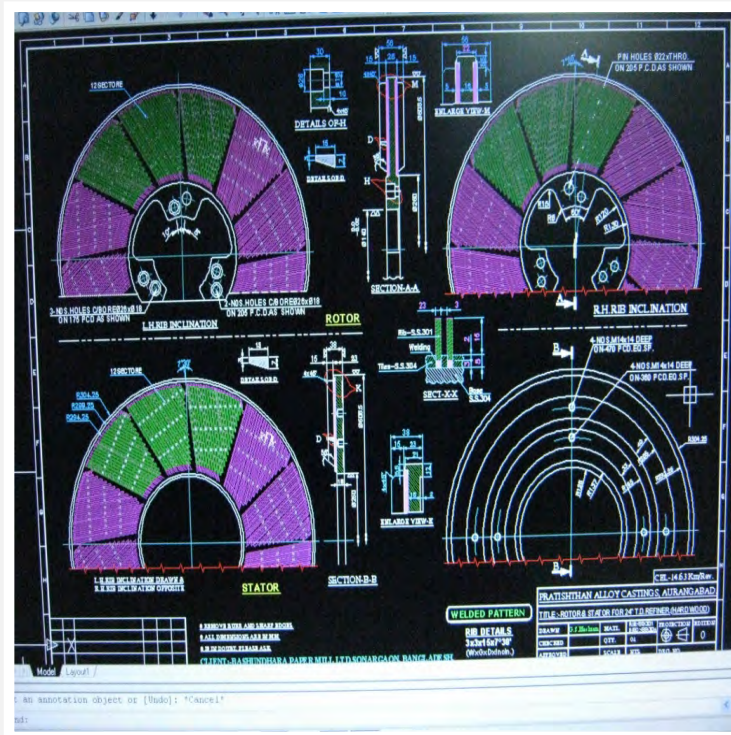


List of Quality Control & Testing Instruments



- Spectrometer (Polyvac)
- Microscope (Leica)
- Image Analyzer (Leica)
- Wear Testing Machine –Pin & Disc (Ducom)
- Slurry Erosion testing Machine (Ducom)
- Impact Testing Machine (FIE)
- Hardness testing machine (Diamond)
- HTS/CTS Sand testing machines (Versatile)
- Built Up/Peel back Testing machine (Versatile)
- Core gas determinator (Versatile)
- Sieve Analysis (Versatile)
- Spectro sample polish grinder (Metatech)
- Micro sample polish grinder (Metatech)
- Heat Treatment Furnace (Therelek)
- Casting simulation software (Procast)
- CAD – station (Design computer)
- Molding machine
- Induction melting furnace (100Kg)
(Electrotherm)
- Chemical Lab
- Ultrasonic thickness gauge

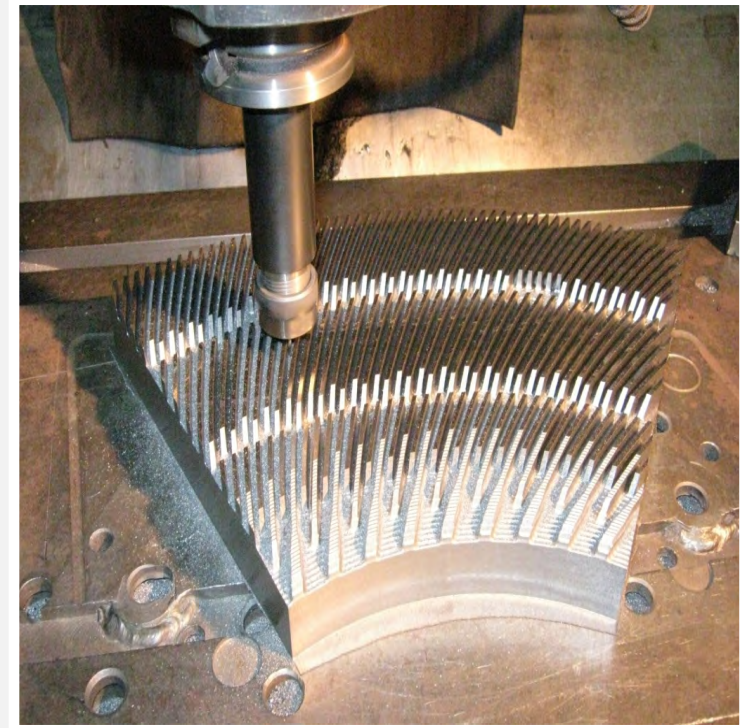
QC & R&D Facilities



CAD / CAM Centers for 2D & 3D



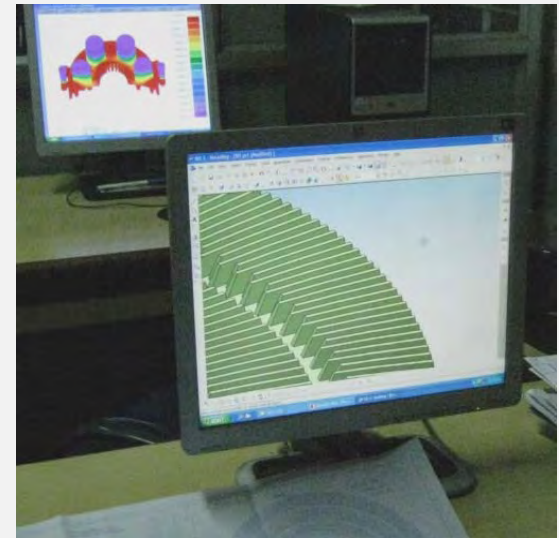
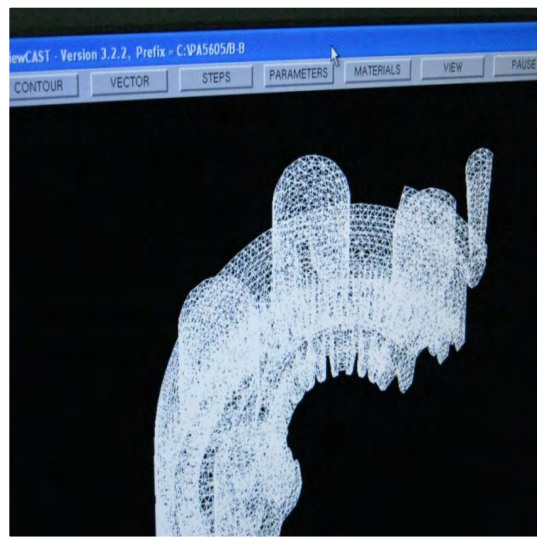
QC & R&D Facilities



CNC Pattern Making - 3D



QC & R&D Facility



Casting Simulation Software (Procast)



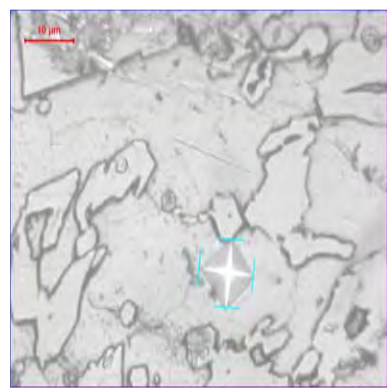
R&D and Testing Facilities



Sample Identification											1758 F	
Quality											A-1	SampleNo
C	Si	Mn	P	S	Cr	Mo	Ni	Al	Co			
0.478	0.898	0.935	0.0261	0.0111	14.9592	0.661	1.030	0.0035	0.045			
0.463	0.865	0.929	0.0267	0.0091	15.0027	0.652	1.029	0.0038	0.044			
0.471	0.889	0.932	0.0264	0.0101	14.9810	0.657	1.030	0.0034	0.0447			
0.011	0.0057	0.0042	0.0004	0.0014	0.0308	0.0064	0.0010	0.00014	0.0008			
2.335	0.641	0.451	1.515	13.86	0.206	0.974	0.097	4.118	1.790			
Cu	Nb	Ti	V	W	Sn	Ta	B	N	Fe			
0.261	0.234	0.159	0.160	0.0813	0.0055	<0.0050	0.0009	0.0086	80.0			
0.258	0.227	0.149	0.157	0.0754	0.0054	<0.0050	0.0011	0.0066	80.0			
0.250	0.231	0.154	0.159	0.0784	0.0055	<0.0080	0.0010	0.0075	80.06			
0.0022	0.0050	0.0071	0.0022	0.0042	0.0001		0.0001	0.0014	0.022			
0.846	2.165	4.610	1.384	5.367	1.818		10.00	18.42	0.927			

Spectrometer Magellan , Bruker -
Germany

R&D and Testing Facilities



Micro Hardness
Image

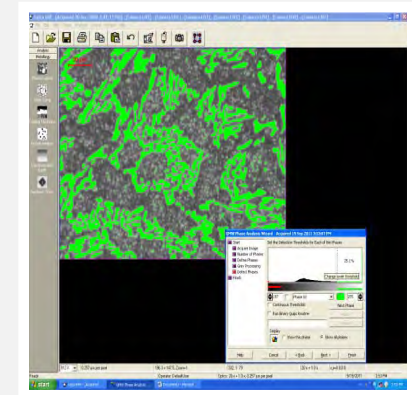
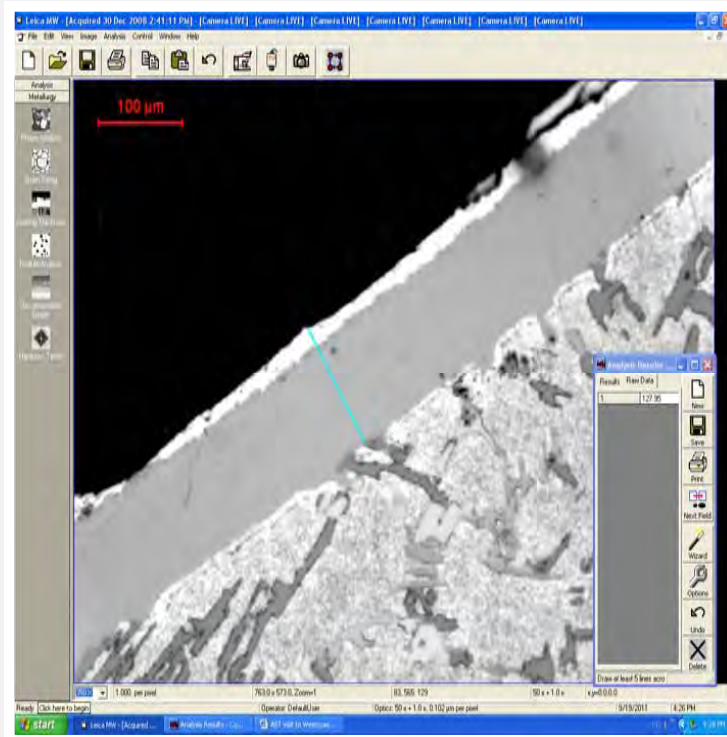


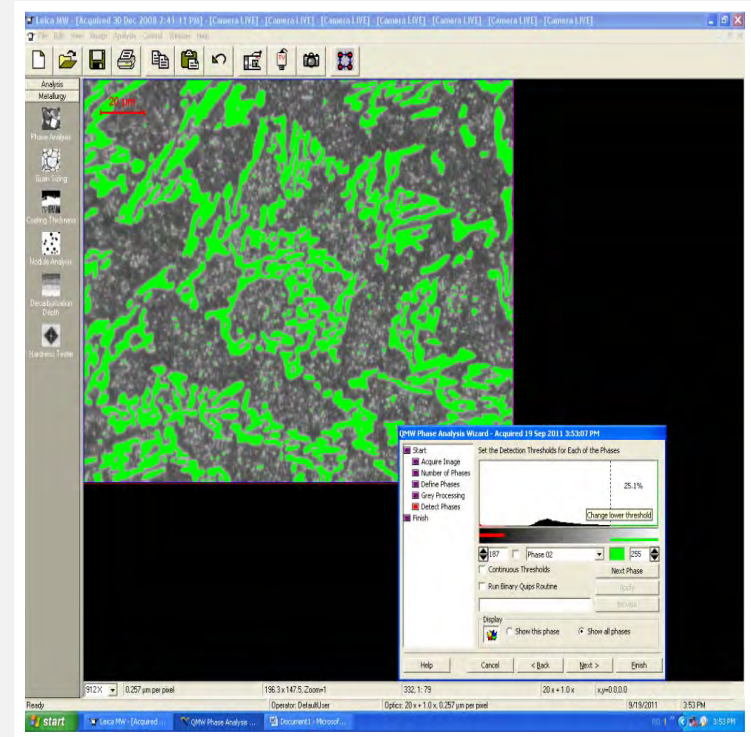
Image
Analyzer



R&D and Testing Facilities

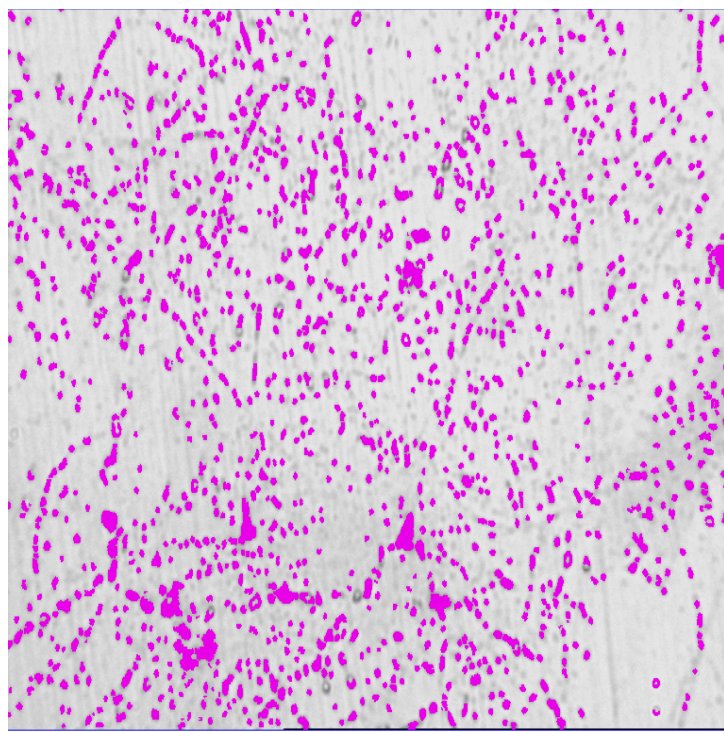


Case Depth Measurement

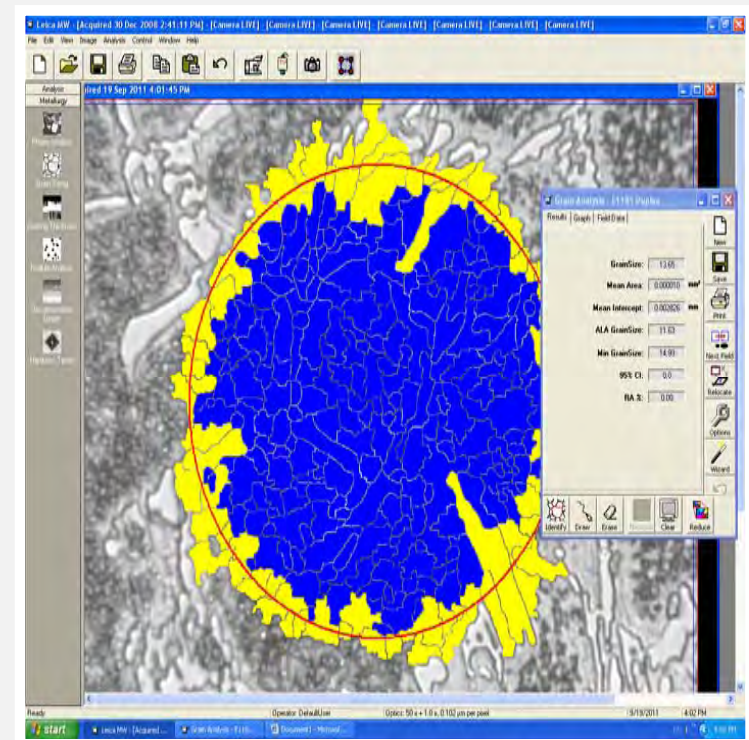


Phase Analysis

R&D and Testing Facilities



Carbide counting



Grain
Sizing

R&D and Testing Facilities



Impact Testing Machine
(FIE)



Heat Treatment Furnace
(Therelek)



Hardness testing machine
(Diamond)



R&D and Testing Facilities



Foundry Sand Testing devices



PARASON - Manufacturing Facilities



Induction Melting and
Pouring

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PARASON - Manufacturing Facilities



Heat Treatment Furnaces



PARASON - Manufacturing Facilities



OD/ID Grinding



OD/ID Machining



PARASON - Manufacturing Facilities



Surface Grinding



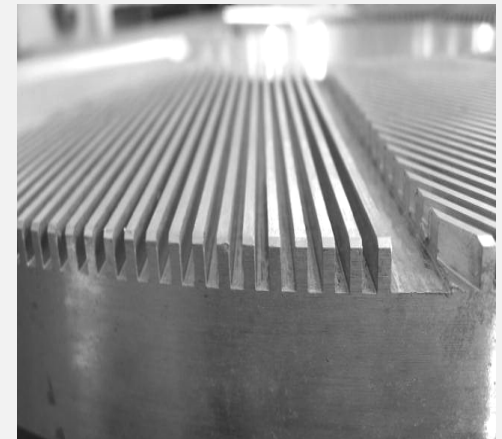
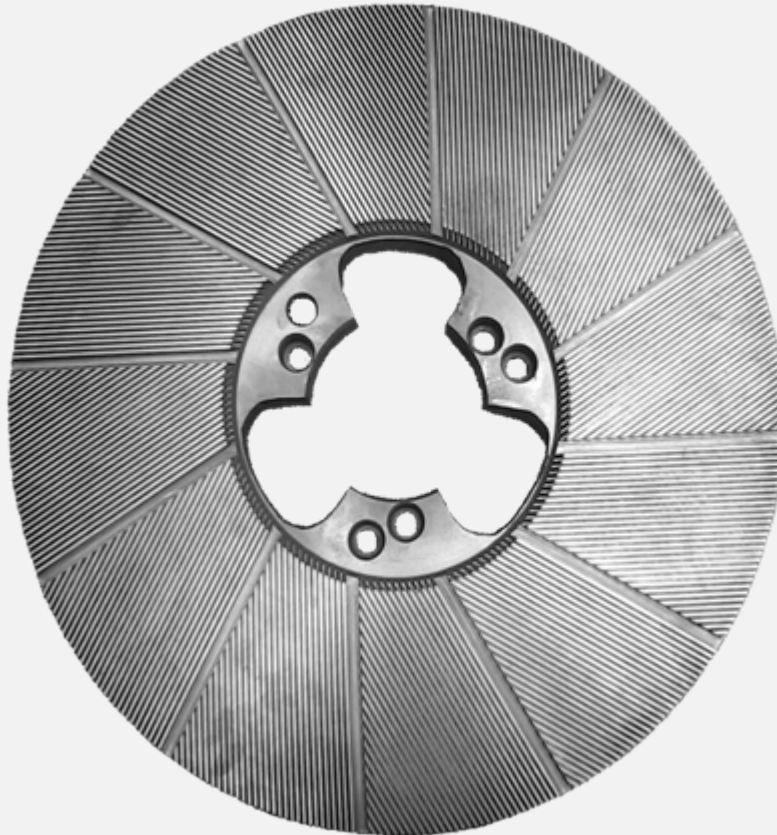
Drilling Holes / counters



PARASON - Manufacturing Facilities

Milled Refiner Plates

- Zero draft angle fine pattern refiner plates.





PARASON – Manufacturing Facilities



Wedge wire Welding





PARASON – Manufacturing Facilities



CNC – Profile cutting machine



Wire Cutting Machine (EDM)



PARASON – Manufacturing Facilities



Boring Machines



PARASON – Manufacturing Facilities



CNC – VMC –Hartford



CNC – VTL



PARASON – Manufacturing Facilities



NC – VTL

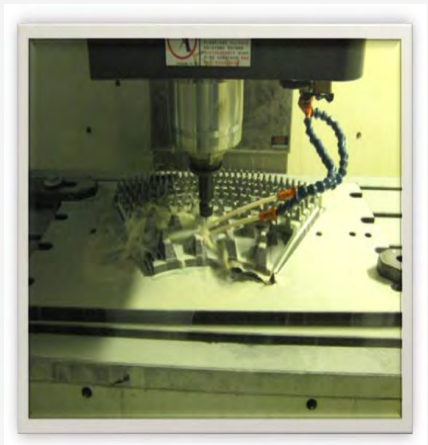


VTL – Bertram

PARASON – Manufacturing Facilities



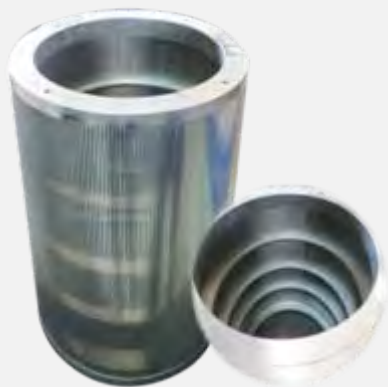
CNC/VMC Pattern Making





PARASON - Product Photo Gallery

SLOTTED/OUT-FLOW BASKETS



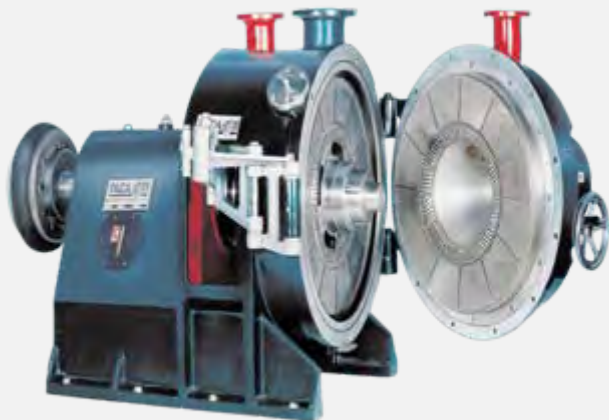
CENTRIPETAL /IN-FLOW BASKETS

PERFORATED/PROFILE BASKETS

LC/MC SCREEN ROTORS



PARASON - Product Photo Gallery



TWIN DISC REFINER



CONFINER



HOLE TYPE DEFLAKERS



CONICAL TYPE DEFLAKERS



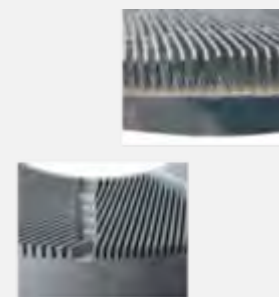
RING TYPE DEFLAKERS



PARASON - Product Photo Gallery



REFINER DISCS IN FULL CIRCLE



FINE BAR & SUPER FINE
REFINER DISCS



REFINER DISCS IN SEGMENTS



PARASON - Product Photo Gallery

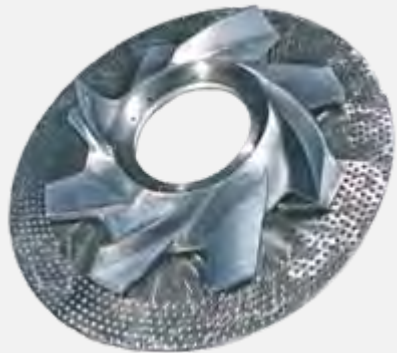
Cast/ Welded JC -01/02/03/04



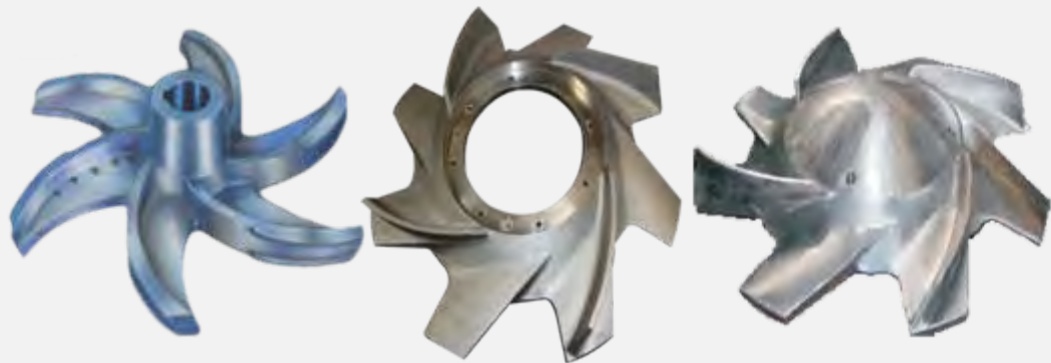
Fillings for ConFlo Refiners in all bar pattern's and metallurgy (A-I & A-IV)



PARASON - Product Photo Gallery



LC -Impeller - Vokes Type



LC -Impeller



Hi-con Pulper
Rotor



Screen Plates / Pulper Bed
Plates





PARASON - Product Photo Gallery



LOW & MEDIUM CONSISTENCY SCREENS & WASHERS

RAGGER



DISC THICKNER



REJECT SCREEN-
WASHING CYCLE



SLOTTED BASKET &
PERFORATED BASKET



SCREEN ROTORS



Awards & Achievements

Excellence in Machinery Design

In the World of Paperex 2013, New Delhi

6 Consecutive Award Winner



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PVT LTD

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**N. AMERICA
PAPER MILLS**

**THANK
YOU**

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