



Excel Teknika Limited

Where future is casted...



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About Us:

EXCEL TEKNIKA LIMITED, in operation since 1984, has been founded by an experimented team totalizing more than 25 years of experience in the steel casting business.

Vision

Excel Teknika Ltd. lean toward becoming a Indian leader in manufacturing small dimension steel casting parts by establishing a trustworthy relation with our customers. We will use the great expertise and experience of our staff as an asset to meet our customers' expectations.

Mission

To make specialized steel casting components of 2500Kg and less and meet our customers' requirements on the following levels : Quality, pricing and delivery. We will constantly adapt ourselves to the changing needs of our customers in order to distinguish ourselves in our markets.

Values

Excel Teknika Ltd. consider customers as the key element of our organization. Our commitment to them is to produce the steel casting parts meeting the highest standards of quality, at the most competitive price and in the most efficient way.

Our team

Our team includes some experimented and competent members in the steel and foundry business.

Serving Sector

ETL is serving for various sectors such as Hydro Turbine, Steam Turbine, Sugar Mills, Soap Industry, Petroleum Industry, Cement Industry, Gears & other Heavy Engineering Industry.

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Product Range

Hydro Turbines

- Francis Runners
- Guide Vanes/ Wicket Gates
- Labyrinth Rings
- Nozzle Head/ Mouth Piece
- Jet Deflectors
- Valve Body
- Counter Weights etc.



Steam Turbine

- Nozzle Casing.
- Seal Body.
- Bush Pipes.
- Boiler Parts like Wedge, Arm, and Yoke etc.
- Valve ranging 3" to 12" etc.



Pumps (Boiler feed pump, Booster Pump, Condensate Extraction Pump, Cooling Water Pump)

- Sleeves
- Bushes
- Impeller Wear Ring
- Impeller Neck Ring
- Deflector
- Bushing Stuffing Box



Sugar Processing Machining Plant

- Centrifugal Machine Parts.

Petroleum Industry

- Production Pulsation Dampers (Volume 1 Gallon to 20 Gallon).
- 7" & 9" Single & Double RAM BOP etc.



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Product Range

Soap Industry

- Sigma Blade
- Oil Seal Casing
- Roll Chock
- Barrel Flange etc.

Rolling Mill & Heavy Engineering Industry

- Chock
- Couplings
- Impellers
- Pump Body
- Bearing Housing etc.



Manufacturing Facilities

•Capacity

- 2400-3000 Metric Ton Casting Per Annum
- 15 Kg to 2500 Kg (Single Piece)



•Melting

- Induction Furnance-500 Kg(1000 Hz)
- Induction Furnance-2500 Kg(500 Hz)

•Mould Making

- By Alpha Set(No-Bake)
- Continuous Sand Mixture of capacity 10Ton/Hr (Omega U.K.)
- Sand Reclamation Plant of capacity 06Ton/Hr (Omega U.K.).
- Compaction Table

•Core Making

- Alpha Set(No-Bake)
- CO₂ Process



•Heat Treatment

- Data Logger for Time Temperature Transformation (T.T.T.) Curve.
- Gas Fired Furnace of size 1.5 x 1.5 x 1.2 mtr & Capacity 2 Ton
- Gas Fired Furnace of size 3.1 x 3.1 x 1.7 mtr & Capacity 5 Ton



•MACHINING FACILITY(In-house & Ancillary Unit)

- Vertical Machining Centre -13 Nos. (Table Size:500-1600mm)
- Vertical Turning Lathe- 11 Nos.(Chuck Size:900-3100mm, Height:900-3250mm)
- Horizontal Boring Machine - 06 Nos.(Spindle Size: 80-125mm)
- Horizontal Machining Centre - 07 Nos.
- Radial Drill -05 Nos.
- Facing Lathe- 01No.
- Floor Boring Machine -01 No.
- Broaching Machine – 01 No.



Quality

•Certification

- ISO 9001 ,ISO 14001, OHSAS 18001

•Sand Testing

- Sand sieve shaker
- Clay washer
- Rapid Moisture teller
- Mould & Core Hardness Tester
- Permeability tester etc.



•Chemical Composition Testing

- 26 Channel Emission Spectrometer Model Polyvac-2000 Hilger UK
- Microscope.



•Physical Testing

- 40 Tons Universal Testing Machine
- Impact Testing Machine (at 0° C & -20° C)
- Brinell Hardness Testing Machine Stationary & Digital both

•Non Destructive Testing

- Ultrasonic Testing Machine
- Magnetic Particle Testing Machine
- Liquid Penetrant Test
- Metallurgical Microscope
- Radiographic testing

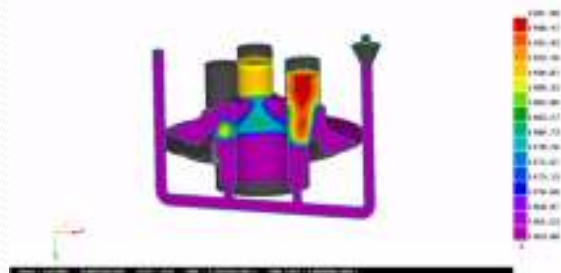


•Measuring & Marking Tool

- Surface Plate 2 X 2 Meter
- Surface Plate 1 X 1 Meter
- Height Gauge
- Vernier Calliper
- Screw Gauge
- And all other necessary instruments.

•Design & Engineering

- Metal flow simulation software for virtual manufacturing and process validation to develop new parts right the first time.



CASTING MATERIAL GRADES

Type of Casting	Material Specification	Typical Component
Low Alloy Creep Resistant Castings for high temperature and high pressure services.	DIN-17245, Gr.-17 Cr.Mo4 Ni V511, GS-22Mo4,ASTM A216, ASTM A 217, Gr. WC-9, WC-6	Valve Bodies, Housing, Inner Casing, Steam Turbine Casting etc.
High Alloy Castings Resistant to abrasion and cavitational corrosion	ASTM A743 CA6NM GX5CrNi13-4, ASTM A 743 CF-8 ASTM A 743 CF-8M ASTM A 743CF-15	Hydro Turbine Castings, Francis Runners, Kaplan Runner Blades, Guide Vanes, Wicket Gates, Labyrinth Rings, Nozzle Head, Steam Turbine Blades Mouth Piece and Impellers for CW Pumps.
Abrasion Resistant Castings.	IS 4771, ASTM A532	Disc Bodies, Chocks etc.
Duplex & Super Duplex Steel	ASTM A851, ASTM A995/995M	Centrifugal Pumps Parts, Pump Impellers, Pump casing etc
Carbon Steel Castings for General Engineering purpose	ASTM A216 Gr. WCB, WCC,WC9, IS-1030,IS 2707, IS 2708, Gs20Mn5	Hubs, Guide Vane Lever, Housings etc.
Corrosion Resistant Stainless Steel Casting	ASTM A 351, Gr. CF-8M, CF-8, CA 6NM, CF3M, DIN EN 10283, EN 10293	Centrifugal Machine Parts, Pump Casing etc.
Grinding Ring & Balls	Ni-Hard IV, Ni-Hard II	Servo Motors Casings, Bearing Bush, Bearings etc.

International Exposure

We have participated in

- Hannover Messe Germany in 1999 for which we were selected out of 10 participants by Sippo Switzerland to represent Indian Foundry Industry.
- E u India Partneria 1999 at Pragati Maidan, New Delhi.
- Welcome to Spain – organized at Pragati Maidan, New Delhi in 2001
- IFEX & Cast India Expo at Gandhi Nagar, Gujarat in 2014



Our Visitors

Our Visitors Includes:

- Delegates from various companies like Voith Hydro-Austria, Andritz Hydro-Germany, Boom Hydro-India, BHEL-India etc.
- Experts from various foundries.



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MELTING



Induction Furnace 2 Nos.
Capacity: 500Kg & 2500Kg

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MACHINE MOULDING



Continuous Sand Mixture(Make: Omega, U.K.)
Capacity : 10Ton Per Hour

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VIBROFEEDER



Compaction Table
Make : Omega , U.K.

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SAND RECLAMATION



Capacity : 06 Ton Per hour
Make : Omega, U.K.

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PNEUMATIC SAND TRANSFER



Capacity : 06 Ton Per hour
Make : Omega, U.K.

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HEAT TREATMENT FURNACE



PNG Fired Equipped with Data
Logger(Fully Calibrated)

Qty: 02 Nos.

Size: 3.1Mtr x 3.1Mtr x 1.5Mtr

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MACHINING FACILITY

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SPECTRO METER

Make: Hilger Polyvac
26 Channels, 13 Elements



UNIVERSAL TESTING MACHINE-40 TON

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**ULTRASONIC
TESTING MACHINE**



**MAGNETIC PARTICLE
TESTING MACHINE
2000AMPS**

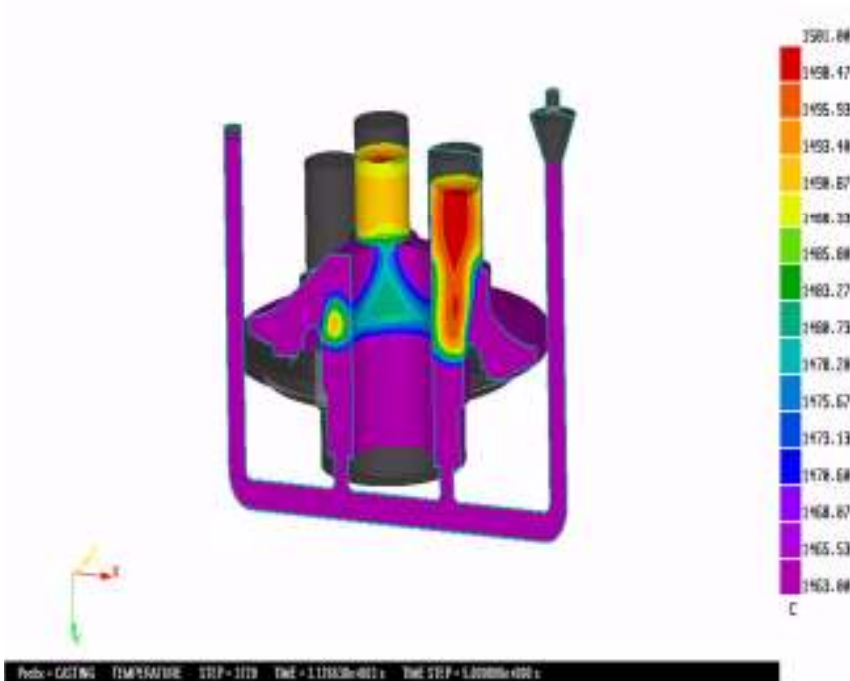
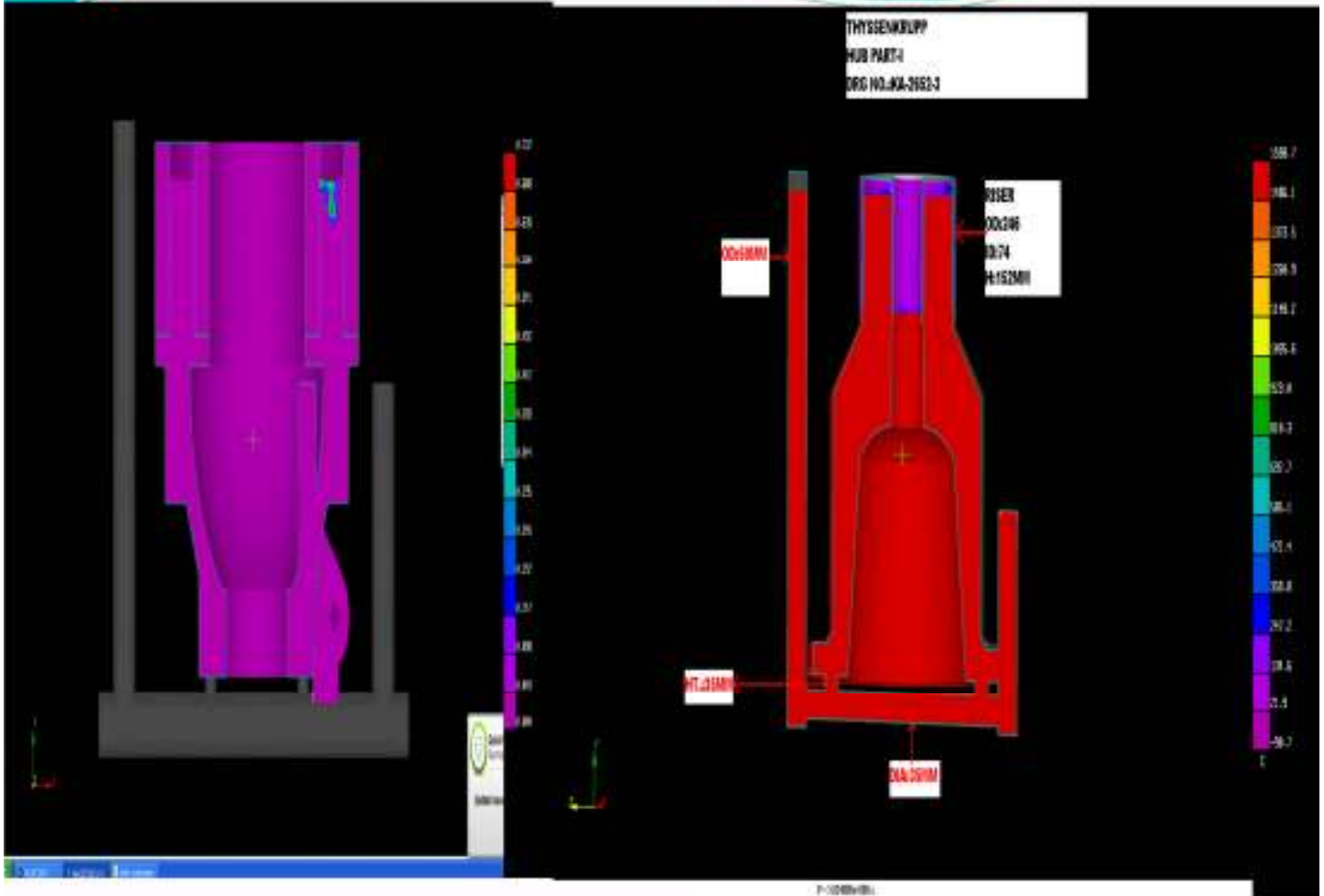
**DIGITAL HARDNESS
TESTER**



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DESIGN & ENGINEERING

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Simulation Software

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International Exposure



*HANNOVER MESS
GERMANY*

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National Exposure



Visitor's



Voith Hydro-Austria(2010,2011)

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Visitor's



Andritz Hydro-Germany(2010)

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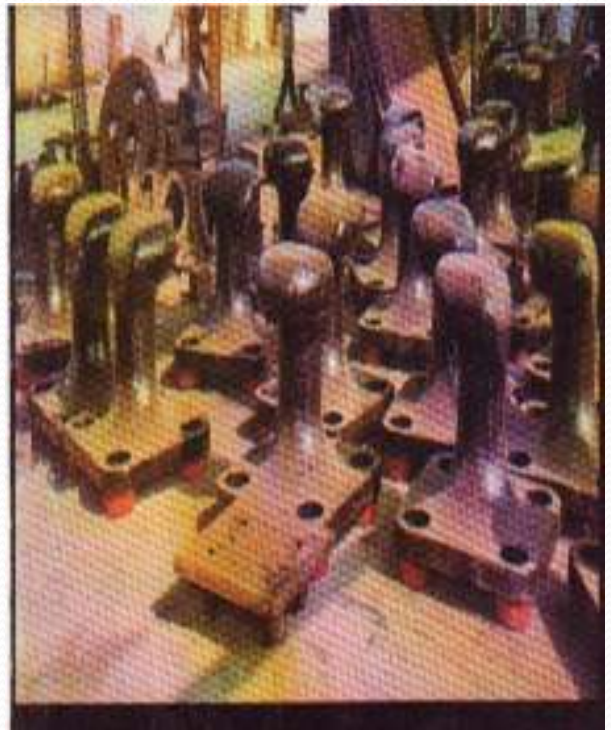
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PRODUCT GALLERY

Export Orders



*MID LOCK
DIN-40MNCR5*



Bollard

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Francis Runner Assembly(Crown, Band & Blade)Grade-ASTM A743 CA6NM

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**Francis Runner Assembly
(Crown, Band & Blade)
Grade:GX5CrNi13-4/GX5CrNi13-6**

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Guide Vanes & Wicket Gates
Grade: ASTM A743 CA6NM



**NOZZLE HEAD/ MOUTH
PIECE**
ROUGH MACHINED
MATERIAL:GS20Mn5+QT



JET DEFLECTOR
ROUGH MACHINED
MATERIAL:Gx4CrNi13-
4+QT



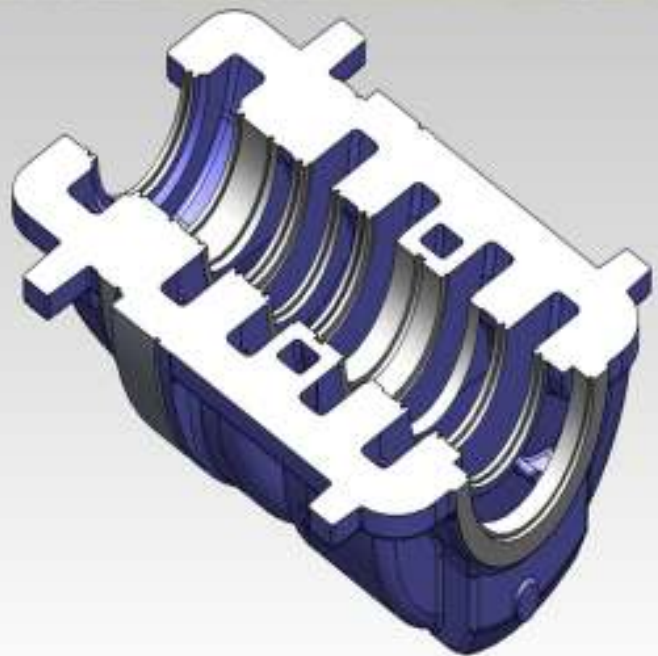
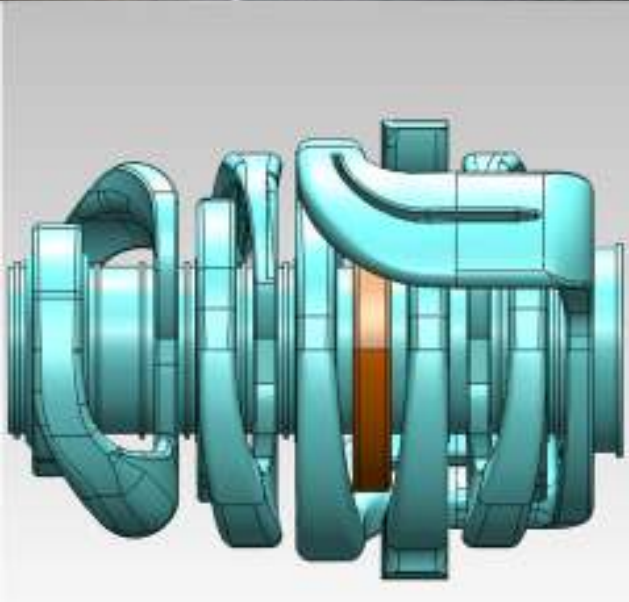
PELTON RUNNER
ROUGH MACHINED
MATERIAL: ASTM A743
CA6NM



KAPLAN BLADE
AS CAST & GRINDED
PROFILE CHECK BY CMM
PROCESS
MATERIAL: GX4CrNi13-4

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MULTI VOLUTE SPLIT TYPE CASING FOR BOILER FEED PUMP

SUPPLY CONDITION : ROUGH MACHINED

MATERIAL: ASTM A743 CA6NM

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LABRYNITH RING

MATERIAL:ASTM A 743

Gr:CA6NM

MAX. OD.:2708 MM



WEARING RING

MATERIAL:BS: 3468 Gr.F1

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**L-OC STATIONARY BLADE
FOR STEAM TURBINE
MATERIAL: ASTM A743 CF8**

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COUNTER WEIGHT(FG:150 IS:210)

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*CENTRIGUAL
MACHINE*

PARTS

DIN-1-4581

DIN-1-4410

Testing

Specs: 100%RT



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*SSW-10 Body
CM-01*



*SIGMA
SS-304,316*

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*PUMP BODY
DUPLUX STEEL*



*PUMP BODY
SS-304/SS-316*

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PUMP BODY Grade:SS316

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End Journal

Grade: ASTM A 743 CF-8M

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SLIDE VALVE
ASTM A743-CF8M

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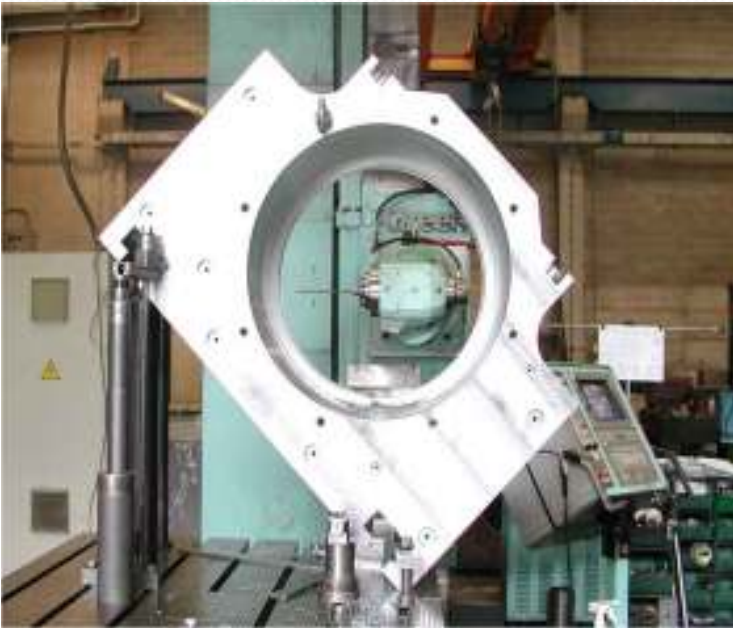
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Pump Assembly Part
ASTM A851(Duplex & Super Duplex
Steel)

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Bearing Housing & Assembly Components

Grade: IS 1030 Gr.280-520W

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RAM-BLOW OUT PRVENTER & PULSATION DAMPER
Grade: ASTM A352 LCB & ASTM A487 Gr.D

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Our Prime Clientele

