



MACRO ENGINEERING WORKS

AN ISO 9001-2015 CERTIFIED COMPANY



QUALITY IS OUR MOTO

SPECIALIST IN MANUFACTURING SOLUTIONS

Plot No:- 364-B, KIADB, Sompura 1st Stage Industrial Area, Dabbaspeta, Nelamangala Taluk, Bangalore Rural Dist.

Contact : +91-9845768109, E-mail:- devendarmacro@gmail.com

More About us

- **Macro Engineering Works was started in Year of 2000, by Mr. B. Devendra Rao who has over 15 years experience before stepping into entrepreneurial shoes with the industry leader.**
- **MEW has served a myriad of industry segment since last 25 years.**
- **We are committed to provide precision components to the customer and satisfy them Innovatively, Economically and Timely.**
- **Our Mission statement has always been: “To produce Components and Accessories, Quality of which exceeds the Quality standards expected by our customer and to accompany them parallel in their growth”**
- **Macro Engineering Works is an ISO 9001-2015 URS certified.**
- **We have all kinds of tooling facilities, Quality Control Equipments and with latest CAD/CAM, systems.**
- **We at Macro Engineering Works believe that Quality is the basic Business Principle.**

Infrastructure-Unit-I(Dabaspeta)



MANUFACTURING AREA SPACE OF 25,000 Sq ft

Infrastructure-Unit-I(Dabbaspeta)

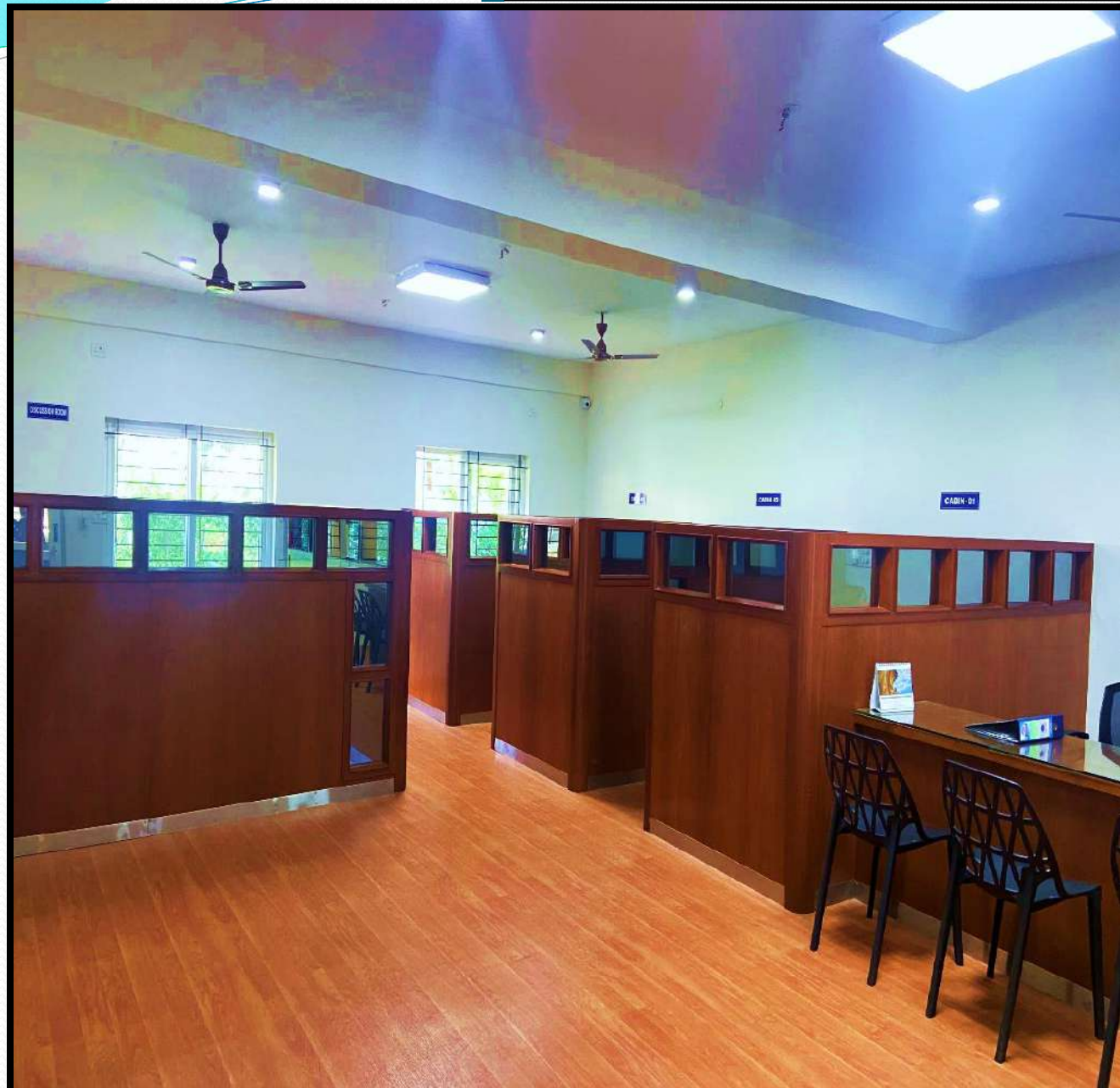


Bay-1-Area of 11,000 Sq ft



Bay-2-Area of 11,000 Sq ft

Infrastructure-Unit-I(Dabbaspeta)



Eco Space



Infrastructure-Unit-II(Pennyya 2nd stage)

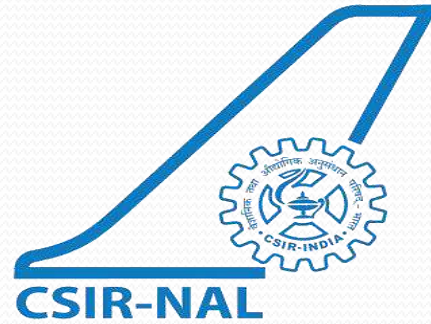


MANUFACTURING AREA SPACE OF 8,000 Sq ft

Our Core Competences

- CNC Vertical Turning Lathe Machining
- 7-Axis CNC Turn Mill Centre
- Vertical Turning Lathe Machining
- Floor Boring Machining
- Horizontal Boring Machining
- Radial Drill Machining
- Turning Machining
- Cylindrical & Surface Grinding
- Cylindrical Grinding for big shafts

Major Customers



Registration Certificates

ISO 9001:2015

Certificate of Registration



This is to Certify That The Quality Management System of

MACRO ENGINEERING WORKS

PLOT NO. 364-B, SOMPURA 1ST STAGE INDUSTRIAL AREA,
KIADB, DABASPET, NELAMANGALA TALUK, BANGALORE
RURAL - 562111, KARNATAKA, INDIA

has been audited and conformed to be in accordance
with the requirements of

ISO 9001:2015

The Quality Management System is Applicable to :

MANUFACTURE OF MACHINED COMPONENTS FOR GENERAL
ENGINEERING APPLICATIONS

Certificate No	: QBI.08419		
Initial Registration Date	: 06/05/2019	Issuance Date	: 06/05/2019
Date of Expiry*	: 05/05/2022		
1st Surve. Due	: 06/04/2020	2nd Surve. Due	: 06/04/2021



Director

Aambitious Assessment Pvt. Ltd.
303, Vishal Bhawan, 95, Nehru Place, New Delhi - 110019, India
e-mail: info@aapcertification.in, website: www.aapcertification.in

Certificate Verification: Certificate Validity can be re-checked at www.aapcertification.in
This certificate is a property of Aambitious Assessment Pvt. Ltd. and shall be returned immediately when demanded.
*Validity of the certificate is subject to successful completion of surveillance audit on or before due date



EROSPACE DIVISION



INDUSTAN AERONAUTICS LIMITED

“हिंदी बदेगी तभी, जब चाहेंगे सभी”

Ref:CM(OS)ASD/001B/MACRO ENGG WORKS/21 Dated:-24.05.2021

To

M/s.MACRO ENGINEERING WORKS.
PLOT NO 364B,KIADM SOMPURS,1ST STAGE
INDUSTRIAL AREA, DABSPET
NEELAMANGALA TALUK,
BANGALORE. KARNATAKA-562111
Phone No: 9845768109 /9036001594
E-mail: devendarmacro@gmail.com
INDIA

Dear Sir,

SUB: REGISTRATION AS SUB-CONTRACTOR

We are pleased to inform you that your firm has been registered as a Sub-Contractor for the following operations

1. Machined Components- Max. Turning Dia 3.5 Mtr class rings

Your Registration ID is IN00804794 Registration is subject to the following

- Registration does not automatically entitle placement of Orders.
- You are required to keep confidential all Trade /Business/Technical information etc received from HAL
- You will not resort to any publicity/advertisement of registration with HAL as sub-contractor, without prior permission of HAL
- Any of the following will render registration invalid.
 - Not informing any material change information, technical man power, financial status, available facilities (or) infrastructure, in writing within 30 days of such changes.
 - Misrepresentation/Suppression/Distortion of facts and information provided in the application form/at the time of assessment.
 - Banning of business dealing by a Govt .body /Division or Office of HAL/Public sector unit (or) any other Govt .body .This also holds good in case, any of the Proprietor /Partner Director of your firm is

ಪೊರವಿಭಾಗದ ಕಛೇರಿ : ೧೫/೧, ಕಬ್ಬನ್ ರೋಡ್, ಬೆಂಗಳೂರು - ೫೬೦ ೦೦೧, ಭಾರತ
ಪಂಜಿಕೃತ ಕಾರ್ಯಾಲಯ : 15/1, ಕಬ್ಬನ್ ರೋಡ್, ಬೆಂಗಳೂರು - 560 001, ಭಾರತ

www.hal-india.com

Machine Facility

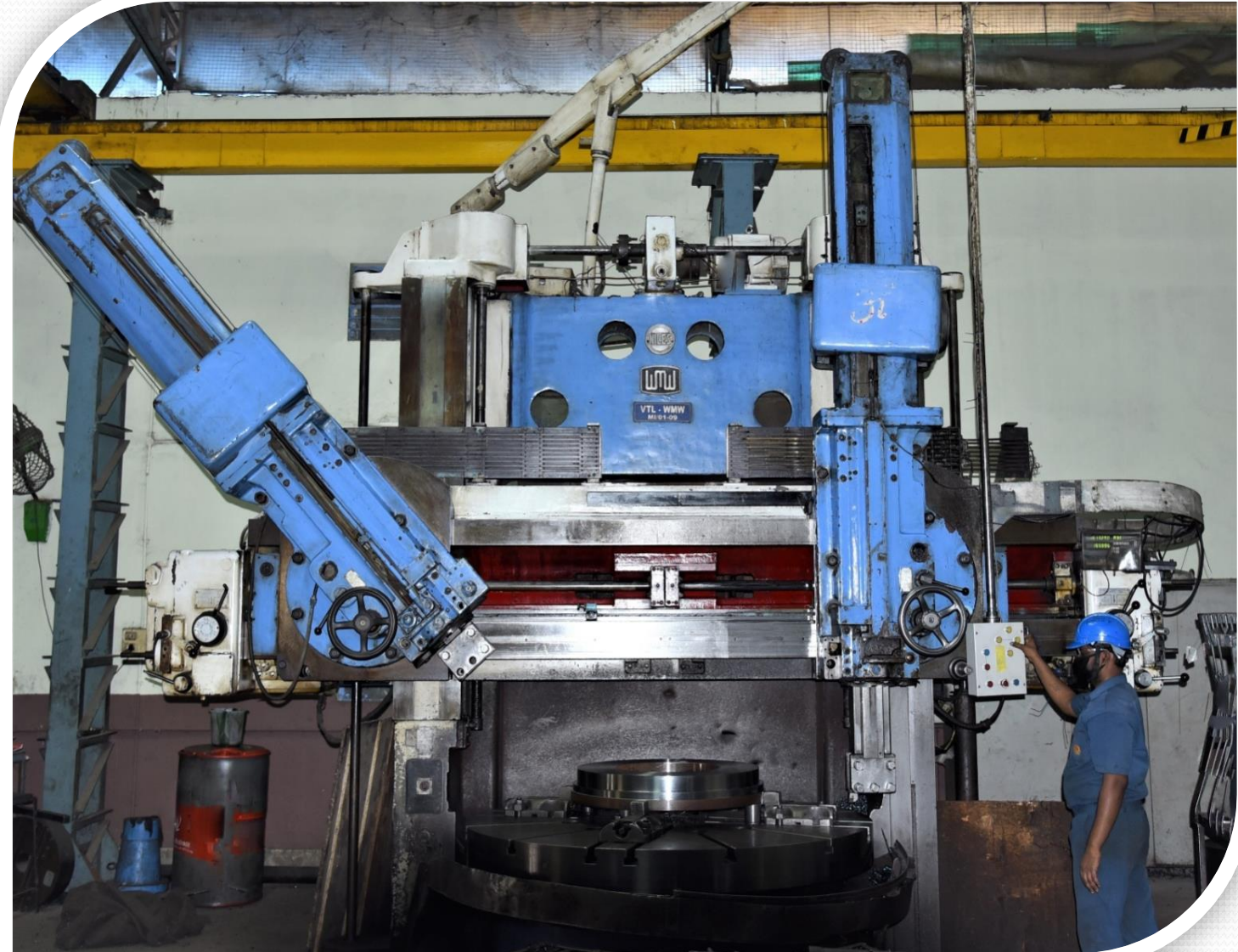
CNC VTL- Ø3500

TYPE OF MACHINE	CNC VTL (Siemens Control 802D)
MAKE	BETTS-USA
Qty. (No's)	01
X/Y/Z MACHINING CAPACITY	Swing Dia-3500mm Chuck Dia.- 3500mm Height – 3500mm Load Capacity-15 Tones
Accuracy	0.02mm



VTL- ø2000

TYPE OF MACHINE	NC VTL (With 2 axis D.R.O)
MAKE	WMW
Qty. (No's)	01
X/Y/Z MACHINING CAPACITY	Swing Dia.-2000mm Chuck Dia.- 2000mm Height – 1200mm Load Capacity-2.5 Tones
Accuracy	0.02mm



VTL- ø2000

TYPE OF MACHINE	NC VTL (With 2 axis D.R.O)
MAKE	SCHIESS
Qty. (No's)	01
X/Y/Z MACHINING CAPACITY	Swing Dia.-2000mm Chuck Dia.- 2000mm Height – 1200mm Load Capacity-1.8 Tones
Accuracy	0.02mm



VTL- ø1200mm

TYPE OF MACHINE	NC VTL (With 2 axis D.R.O)
MAKE	STANCO
Qty. (No's)	01
X/Y/Z MACHINING CAPACITY	Swing Dia. -1200mm Chuck Dia.- 1200mm Height – 900mm Load Capacity-0.9 Tones
Accuracy	0.02mm



HBM-Ø125 SPINDLE

TYPE OF MACHINE	Horizontal Boring Machine (With 3 axis D.R.O)
MAKE	JURISTI
Qty. (No's)	01
X/Y/Z MACHINING CAPACITY	2500mmx2000mmx1800mm Load Capacity-1.5 Tones
SPINDLE DIA	110 mm
Accuracy	0.05mm



FBM-4500mm

TYPE OF MACHINE	Floor Boring Machine (With 3 axis D.R.O)
MAKE	SACEM
Qty. (No's)	02
X/Y/Z MACHINING CAPACITY	4500mmx3500mmx2200mm Load Capacity-20 Tones
SPINDLE DIA	125mm
Accuracy	0.05mm



RDM-Ø110 SPINDLE

TYPE OF MACHINE	Radial Drilling Machine
MAKE	RABOMA
Qty. (No's)	02
SWING	3500mm
HEIGHT	3000mm
SPINDLE DIA	110mm
Accuracy	0.2mm



RDM-Ø110 SPINDLE

TYPE OF MACHINE	Radial Drilling Machine
MAKE	KOLB
Qty. (No's)	01
SWING	2500mm
HEIGHT	1500mm
SPINDLE DIA	110mm
Accuracy	0.2mm



CNC 7-Axis Turn Mill Center-ø900, Length-9000mm

Sl No.	TYPE OF MACHINE	MAKE	Qty. (No's)	X/Y/Z MACHINING CAPACITY	Accuracy
1	7-Axis Turn Mill Center (With Fanuc-Oi-TF Control)	SKODA (SR-125)	01	Chuck Dia-1000mm Swing overbed-900mm Length-9000mm	0.01mm



LATHE MACHINE-ø1000, Length-4500mm

TYPE OF MACHINE	LATHE MACHINE
MAKE	FTC
Qty (No's)	01
X/Y/Z MACHINING CAPACITY	Chuck Dia-1000mm Length-4500mm Swing overbed-1000mm
Accuracy	0.10 mm



N/C Cylindrical Grinding-ø900, Length-9000mm

Sl No.	TYPE OF MACHINE	MAKE	Qty. (No's)	X/Y/Z MACHINING CAPACITY	Accuracy
1	Cylindrical Grinding	WALDRICH	01	Chuck Dia-900mm Length-9000mm	0.01mm



Internal Grinding

TYPE OF MACHINE	Internal Grinding
MAKE	JUNG BERLIN
Qty (No's)	01
X/Y/Z MACHINING CAPACITY	Chuck Dia-150mm Length-400mm
Accuracy	0.005mm



Cylindrical & Surface Grinding

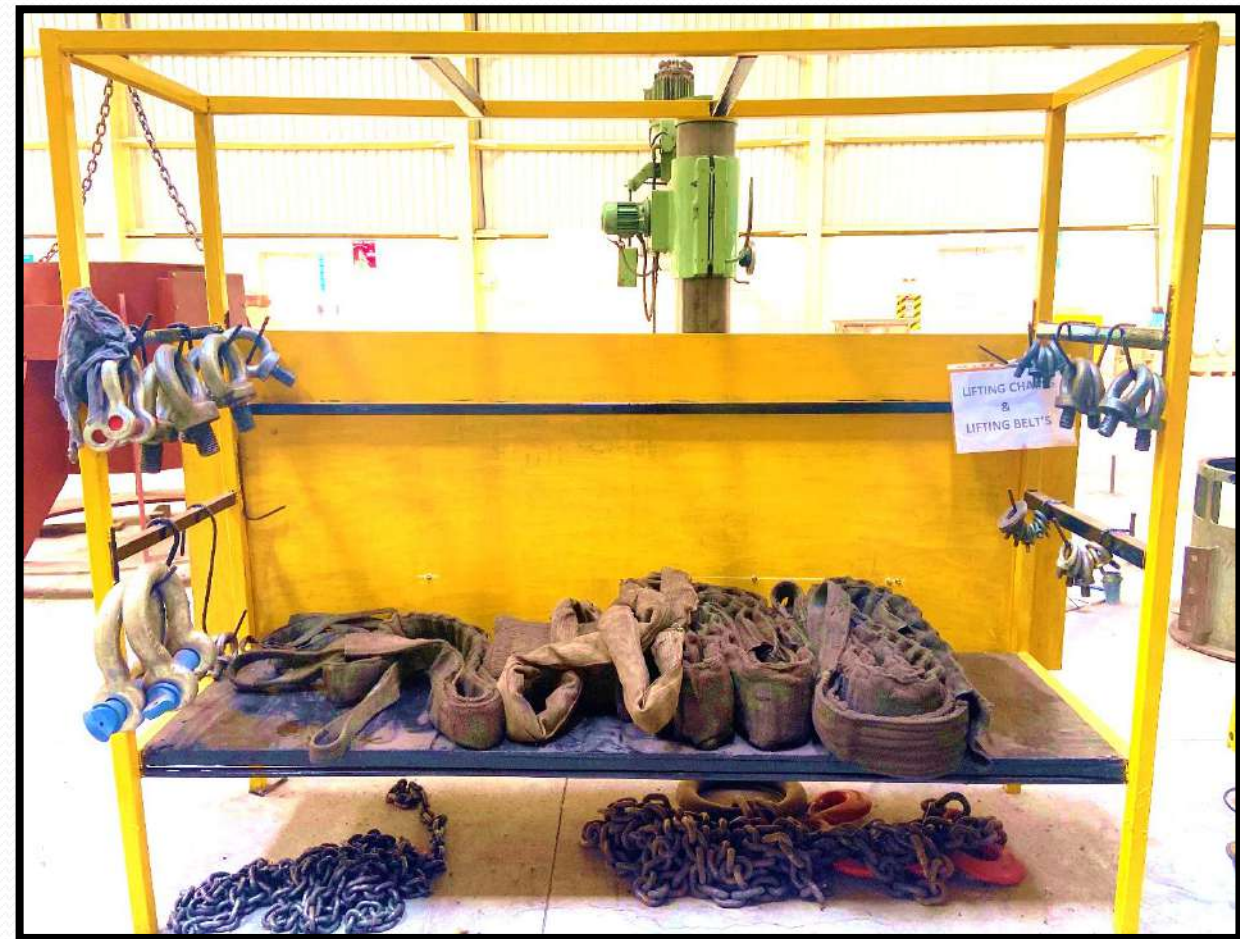
TYPE OF MACHINE	Surface Grinding
MAKE	PARISHUDH & JHONES-SHIPMAN
Qty (No's)	02
X/Y/Z MACHINING CAPACITY	Chuck Dia-150mm/Width-200mm Length-400mm
Accuracy	0.005mm



Lifting Tools



Mobile Crane



Lifting Slings

Overhead crane, 10, 20, 30 Tones

SI No.	CRANES	MAKE	Qty (No's)	Capacity
1	Overhead crane	K2	02	30 Tones- 01 No. & 10 Tones- 01 No.
2	Overhead crane	GAYATRI	01	20 tones-01No.



Inspection Instruments

Instruments

SL NO	DESCRIPTION	MAKE	SIZE	QTY
1	VERNIER CALIPER	MITUTOYO	2000 mm	3
2	VERNIER CALIPER	MITUTOYO	2000 mm	3
3	VERNIER CALIPER	MITUTOYO	1500 mm	1
4	VERNIER CALIPER	MITUTOYO	600mm	3
5	VERNIER CALIPER	MITUTOYO	1000mm	1
6	VERNIER CALIPER	MITUTOYO	1000mm	1
7	DIGITAL VERNIER	MITUTOYO	600mm	1
8	DIGITAL VERNIER	MITUTOYO	300mm	1
9	DIGITAL VERNIER	MITUTOYO	200mm	1
10	DIGITAL VERNIER	MITUTOYO	1000mm	1
11	DEPTH VERNIER	MITUTOYO	300mm	2
12	DEPTH VERNIER	MITUTOYO	300mm	1
13	INTERNAL BORE GUAGE	MITUTOYO	100mm to 2100mm	1 set
14	INTERNAL BORE GUAGE	MITUTOYO	25mm to 700mm	1 set
15	Vernier Height GUAGE	MITUTOYO	300mm	1
16	Vernier Height GUAGE	MITUTOYO	1000mm	1
17	INTERNAL STICK MIC.	MITUTOYO	100mm to 2100mm	3 set
18	INTERNAL STICK MIC.	YURI	50mm to 1000mm	1 set
19	INTERNAL STICK MIC.	MITUTOYO	25mm to 700mm	1 set
20	EXTERNAL MICRO METER	MITUTOYO	0 to 1000mm	14
21	EXTERNAL MICRO METER	YURI	1500mm to 1700mm	1
22	SLIP GAUGE BOX	MITUTOYO	0.2mm to 100mm	1 set
23	STRAIGHT EDGE	STANDARD	1500mm	4

List of Instruments



Some of Instruments Photos

Machining Capacity

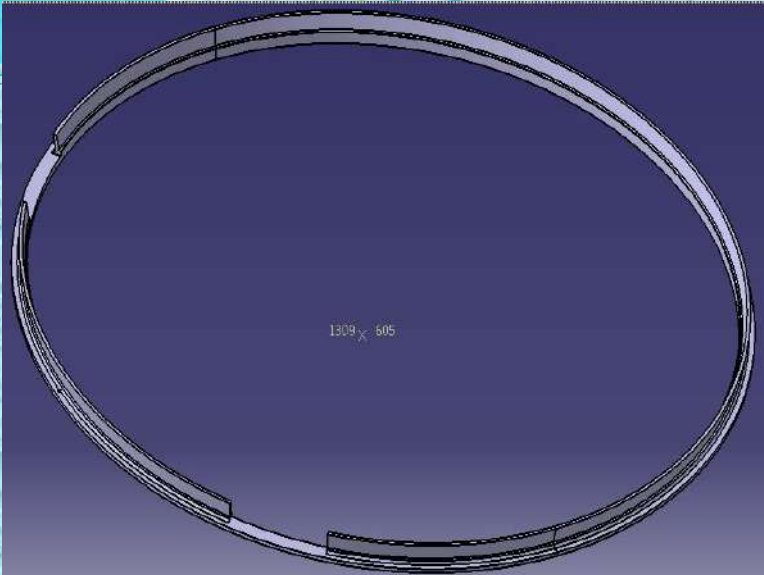
Aerospace Components

Project Name: RH 300 Satellite
Raw Material Spec: AL (6061 T6)
End Customer: ISRO VSSC

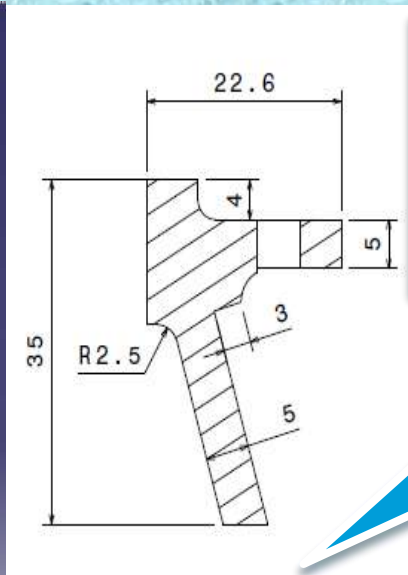


RH 300 Mandrel (Length-3400mm, Max Dia-165mm)

Aerospace Components



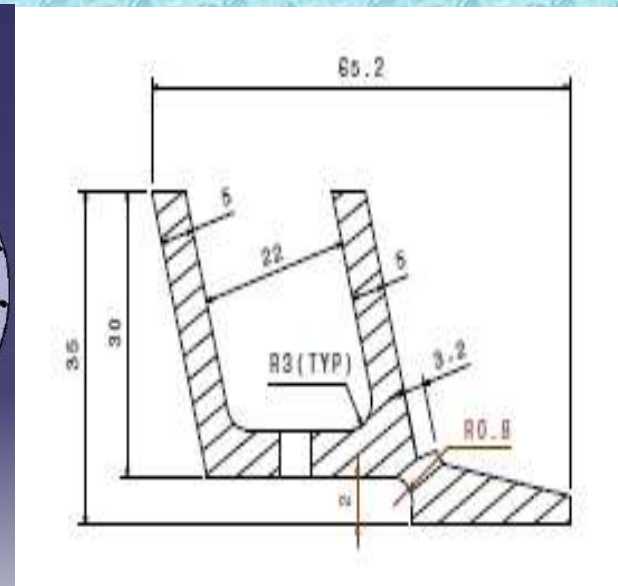
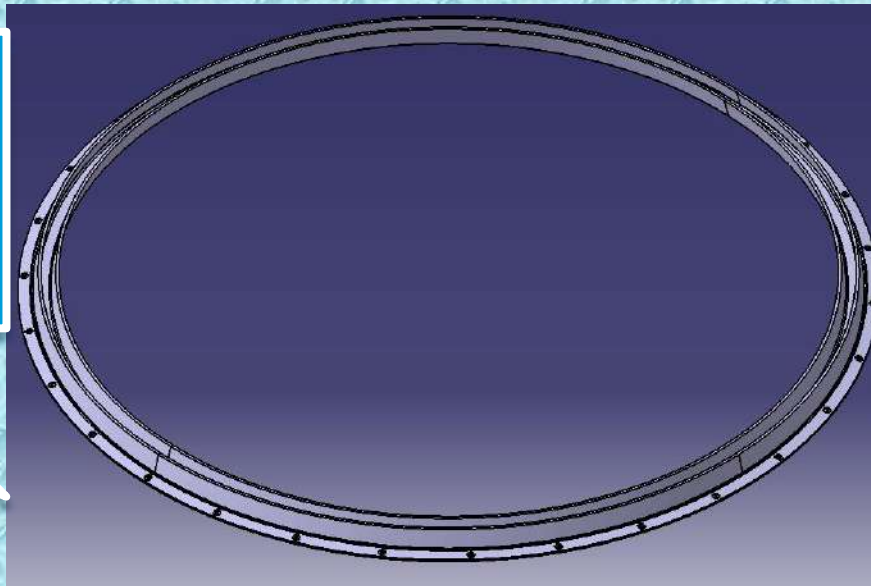
FE Ring (Dia.1093mm), Rib-5mm



Project Name: GSLV GSLV (Replica)
Raw Material Spec: AL (6061 T6)
End Customer: ISRO VSSC
Criticality : RM weight-150Kgs, Finish Weight-05Kgs

AFT Ring (Dia.1370mm), Rib-5mm

Project Name: GSLV (Replica)
Raw Material Spec: AL (6061 T6)
End Customer: ISRO VSSC
Criticality : RM weight-180Kgs, Finish Weight-15Kgs

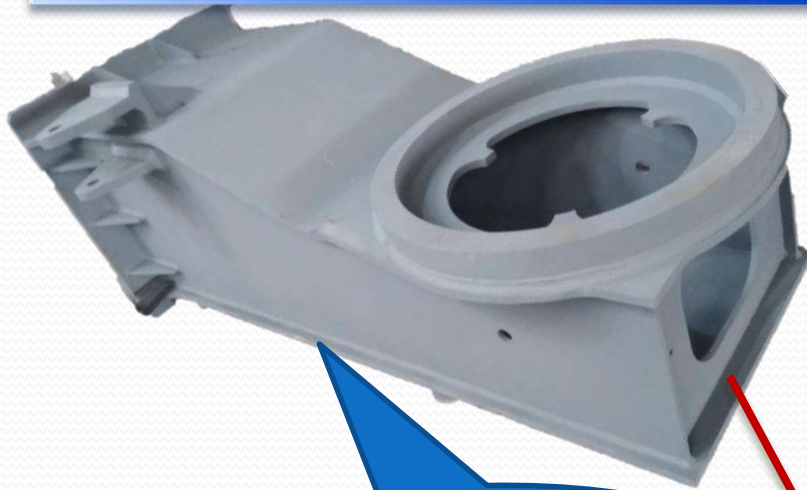


Construction Equipment's

4T Rod Roller



SUSPENSION FRAME for GRIDER TRANSPORT VEHICLE



Supplied More than 100nos



Construction Equipment's

ROLLER WIRE DRUM



Project Name: WIRE DRUM

Weight: 15T

Criticality : 3Type of 3D Groves

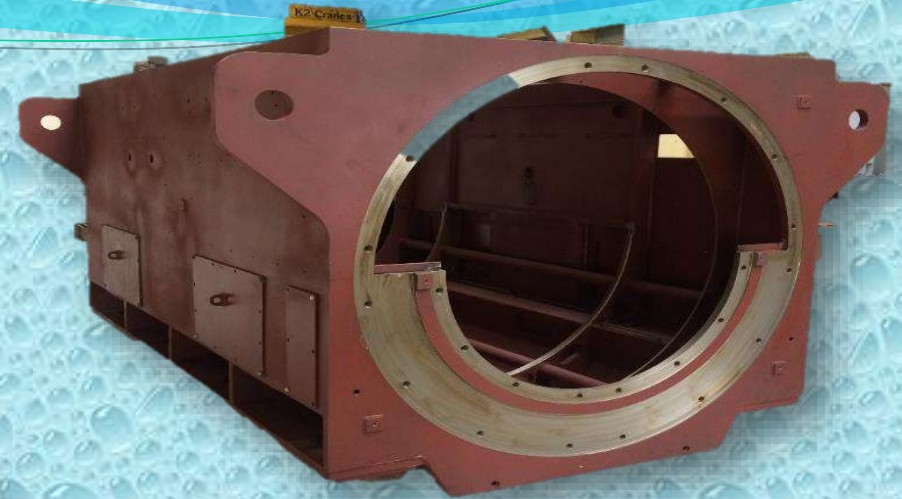
Generator Detail parts



**Exciter Stator
Frame(Dia.2.1m,H-2m)**



Fly Wheel(Dia.2200mm)



Frame(Dia.2.9m,H-3.5m)



**Stator Rotor
Package(Dia.1.8m,H-1.4m)**



End product



Stator cage Dialing



Core Clamp(Dia.2.2m)

Generator Detail parts



Frame(Dia.1.8m, H-3.2m)



End product



Rotor Hub(Dia.1.9m, H-1.7m)



Rotor Hub(Dia.2.0m, H-1.9m)



Runner Bearing(Dia.1.2m, H-800mm)

Generator Detail parts



**Stand Pipe(Dia.1.5m,
H-0.6m)**



End product



**Bell House(Dia. 1.3m, H-
750mm)**



**DE End
Shield(Dia.1400mm)**



**NDE End
Shield(Dia.1400mm)**

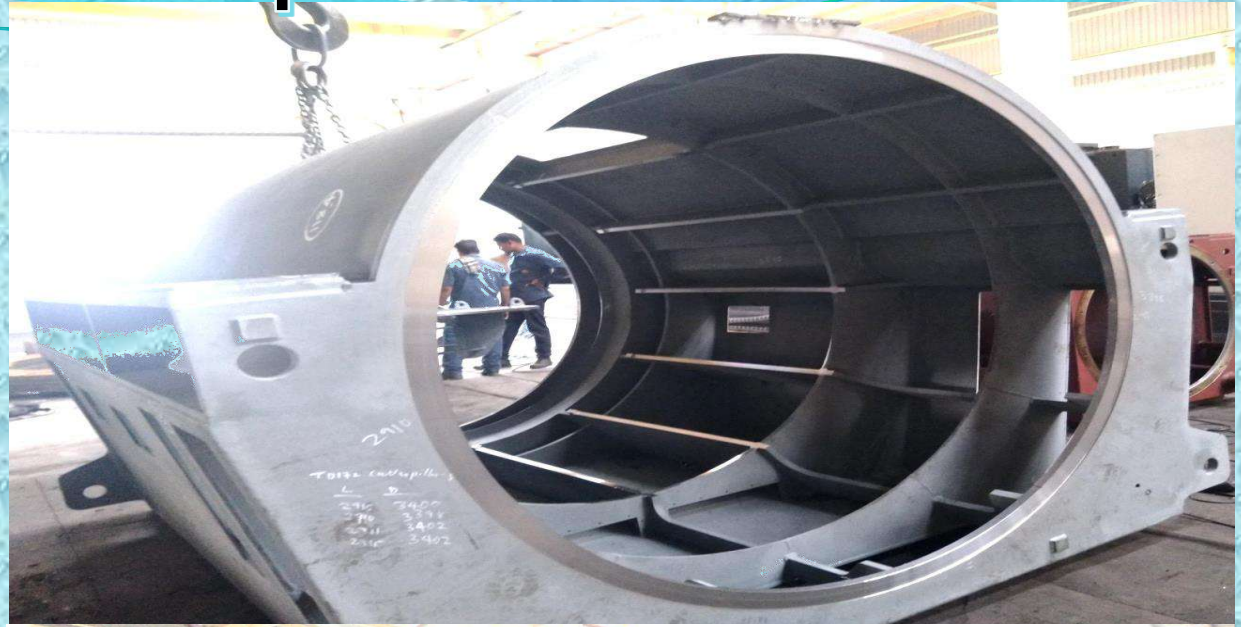


Fly Wheel (Dia. 2100mm)

Generator Detail parts



Exciter Frame(L-2.1m, W-1.5m, H-560mm)



Caterpillar Frame(Dia.3m, H-3.2m)

Generator Shafts on 7-axis Turn mill & grinding operation



Shafts after Machining & Grinding

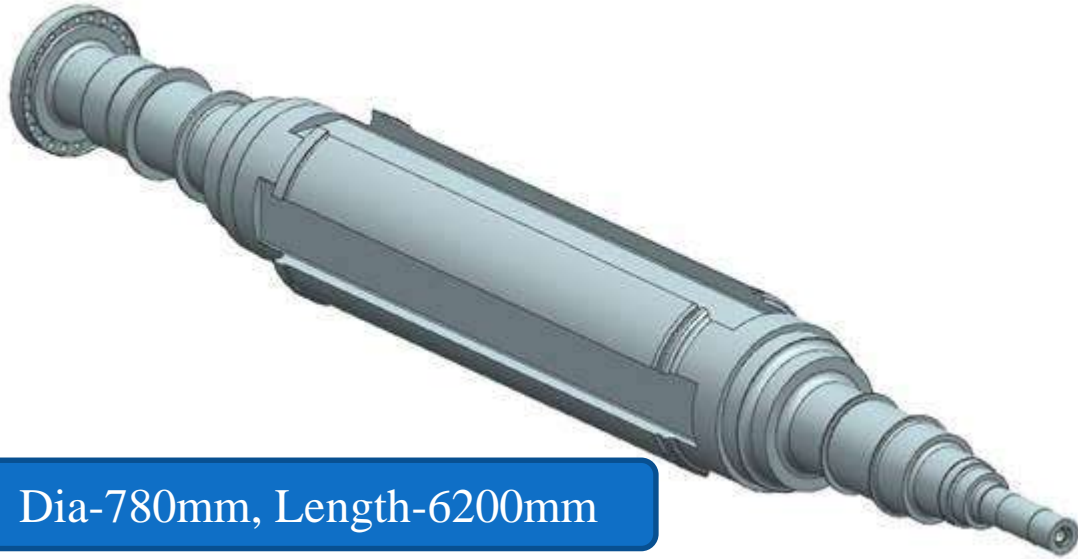


Shaft on Machining condition



Shaft on Grinding condition

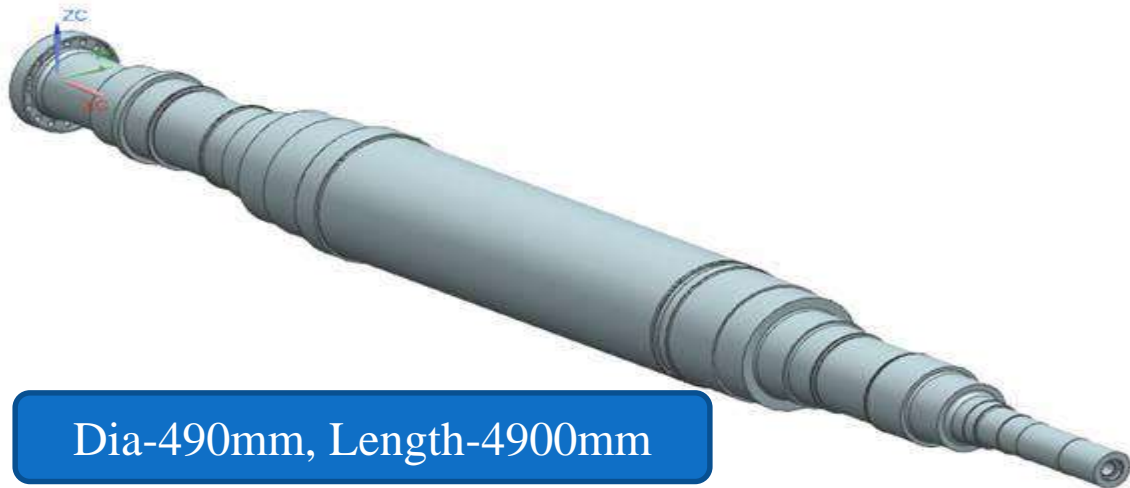
Generator Shafts isometric view



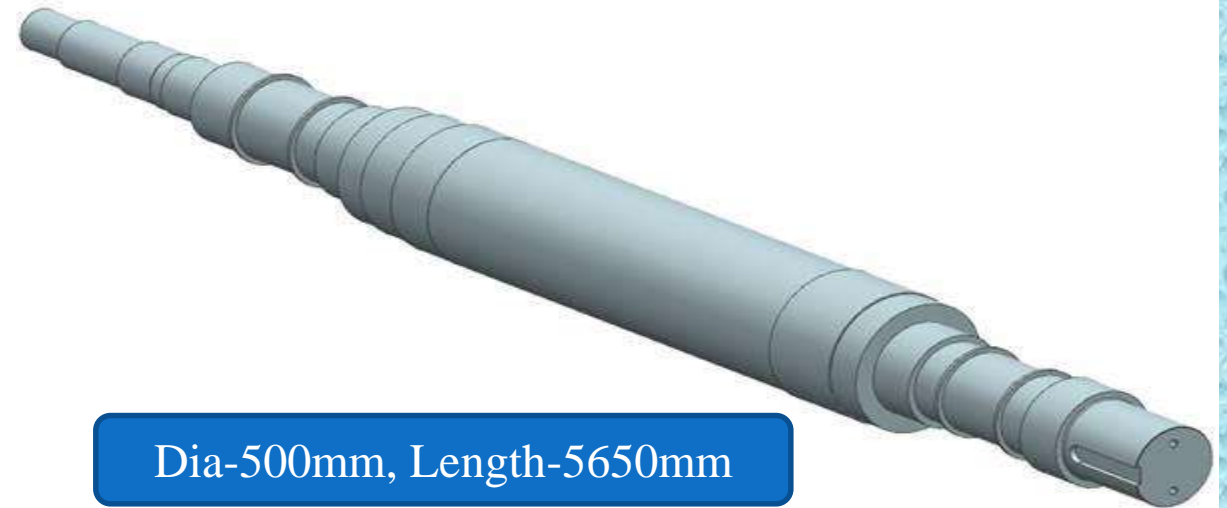
Dia-780mm, Length-6200mm



Dia-730mm, Length-5700mm



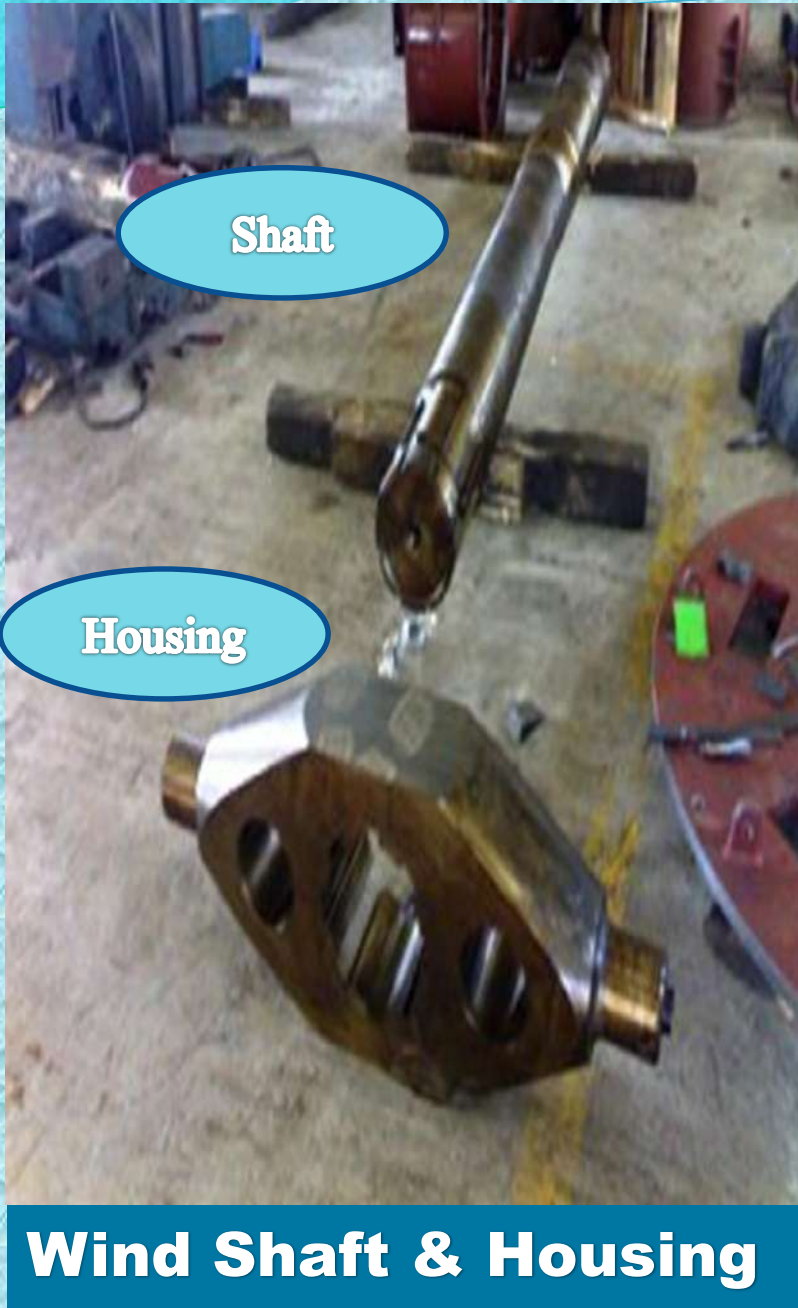
Dia-490mm, Length-4900mm



Dia-500mm, Length-5650mm

Shafts

NAL-Wind Turbine parts



Shaft Key Slots



Ring for Assembly of Shaft

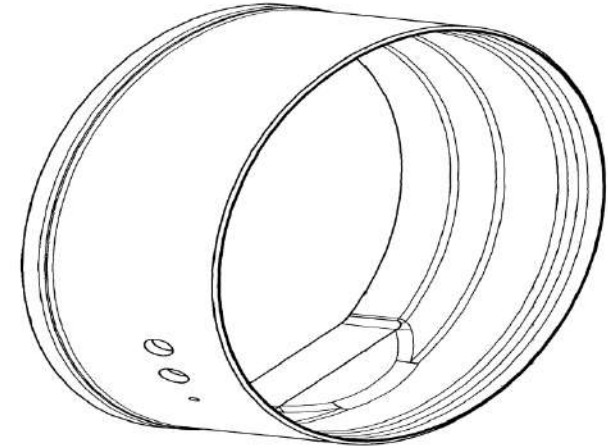
Detail Parts for Different Projects



Stator Cage
(Dia.3300mm, H-1200mm)



Spiral Bevel Gear
(Dia.1700mm, H-220mm)



Axle Ring
(Dia.1.9mm, H-600mm)



Housing Body
(Dia.900mm, H-1.3m)



End Shield
(Dia.800mm, H-800mm)



Casting Cone
(Dia.1400mm, H-650mm)

Detail Parts for Different Projects



Machined Part(Dia.400mm, H-1.9m)

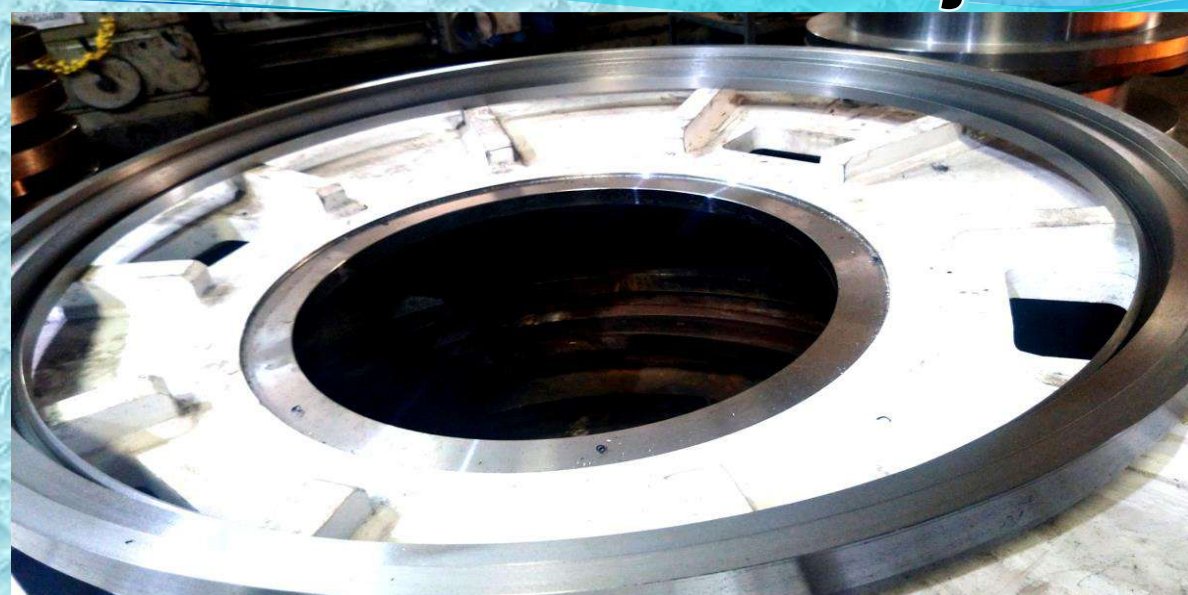


End Shield(Dia.2000mm)

Detail Parts for Different Projects



Runner Bearing(Dia.1.2m,H-850mm)



Seal-1 (Dia.1200mm)



Fan Hub(Dia.2200mm)



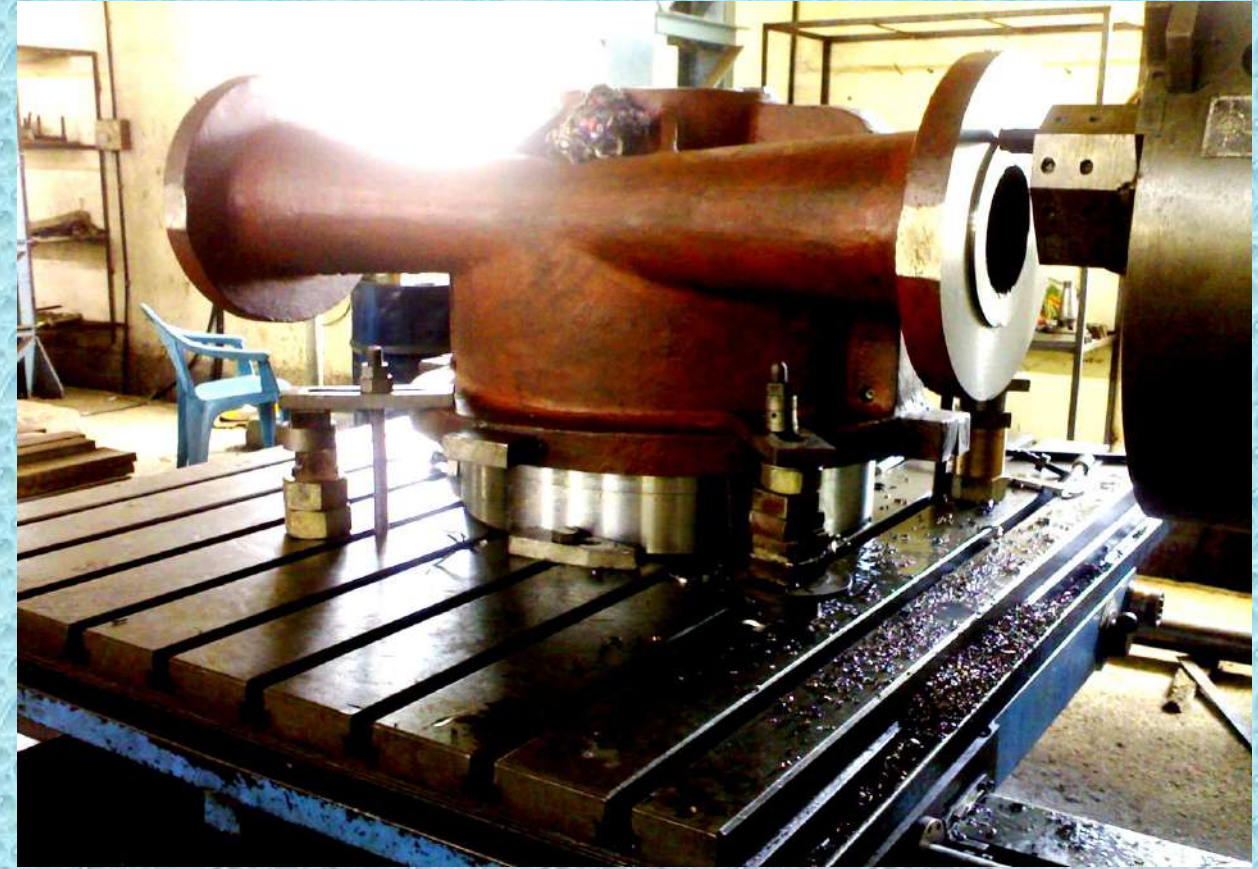
Seal-2 (Dia.1200mm)



Detail Parts for Different Projects



Housing



Steam Casing

Detail Parts for Different Projects



Flow Serve – Valve Body



Turning Vane (Dia. 1.2m, L-3.4m)



Gear- OD & Drilling Opt (Dia-2M)



Inner Drum (Dia. 1m, T-125mm)

Detail Parts for Different Projects



Stator Cage(Dia.1.8m,H-1.5m)



**Metallic Hub
(Dia.1000 mm)**



Casing

Detail Parts for Different Projects



Connector Shaft



Radial Fan(Dia-1000)



Exciter Frame



Stool



Stator Housing

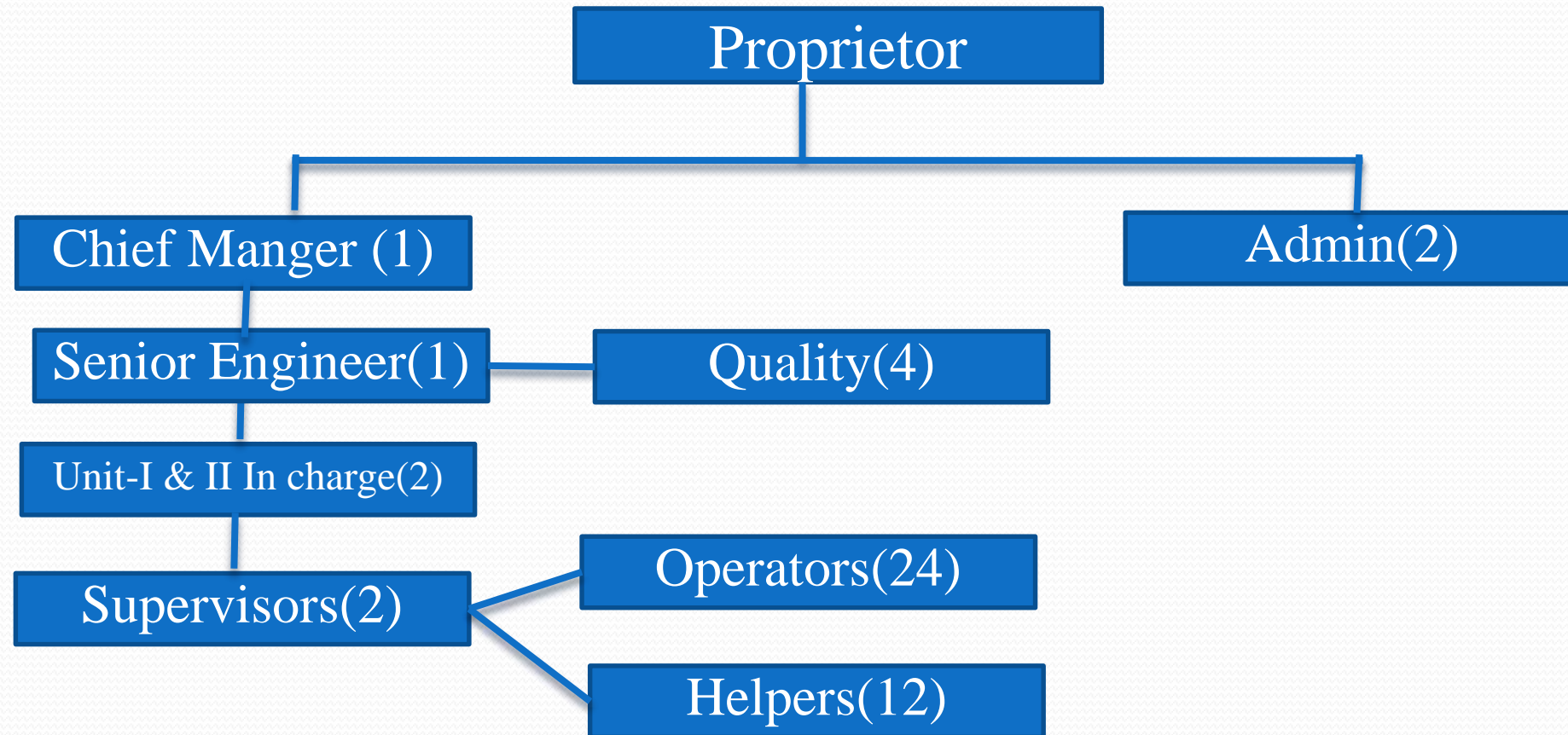


Chamber

Expected Machines

- **CNC VTL :-** Sizes: Chuck Dia-5000mm/swing dia-7000mm/Height-5000mm (In Sailing)
- **5-Axis Gantry Milling: -** Sizes: 5000 X 3500 X 1250 mm (Under Constriction)
- **Coordinate Measuring Machine:-** Sizes: 3500 X 3500 X 1500 mm
- **Laser Tracker (Based on orders)**

Human Resource



Please reach for any quires & Information

*A team behind
our success*



Contact :

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Mob No.: 9398948710, 9676950324

E-mail: marketingmacro2020@gmail.com



THANK YOU