



BESTALL MACHINING & FABRICATION PVT. LTD.

**Presentation on experience & capabilities in Hydro Turbine
& Generator parts manufacturing**

BESTALL MACHINING & FABRICATION PVT. LTD.



- **Bestall Machining & Fabrication Pvt. Ltd. is a part of Bestall-Sharp Group founded back in 1971.**
- **The operations in Vadodara-Gujarat started in the year 2012 with just 1 CNC Floor Type Horizontal Boring & Milling Machine. Today we hold a pool of CNC machines including 2 CNC Floor Borers, 2 CNC VTLs & 1 CNC Horizontal Lathe Machine.**
- **With 2 manufacturing units in Vadodara & 2 group companies in Pune, we have capabilities of manufacturing components from 500 kg up to 200 tons in single piece weight.**
- **With In-house pool of CNC machines, welding set-up, dedicated blasting & painting booths & PWHT furnaces, we can cater our customers with ready to assembly stage components.**
- **We also have special floor capacity assembly area where we perform assemblies of MIV , Distributors etc.**

BESTALL MACHINING & FABRICATION PVT. LTD.



Certifications



CERTIFICATE



Management system as per EN ISO 9001:2015 , EN ISO 14001:2015 , ISO 45001:2018

In accordance with TÜV AUSTRIA procedures, it is hereby certified that

Bestall Machining & Fabrication Pvt. Ltd.

Plot No. 734, Phase III, GIDC, Savli, Village Manjusar, Vadodara - 391 775, Gujarat, India

applies a management system in line with the above standard for the following scope

Manufacture & Supply of Heavy Welded & Machined Metal Components

Certificate Registration No. 20100141370272
20104141370273
20116203010335

Valid until: 2027-01-22
Initial certification: 2014-04-18

Horaf
Certification Body at TÜV AUSTRIA GMBH

Vienna, 2024-01-03

This certification was conducted in accordance with TÜV AUSTRIA auditing and certification procedures and is subject to regular surveillance audits.
TÜV AUSTRIA GMBH Deutschstraße 10 A-1230 Wien www.tuv.at





017838-22-3



CERTIFICATE



Management system as per EN ISO 9001:2015

In accordance with TÜV AUSTRIA procedures, it is hereby certified that

Bestall Machining and Fabrication Private Limited- Unit II

Plot No. 743, Survey No. 506/P, Phase III, SavliPiloI GIDC, GIDC Savli, Vadodara - 391775, Gujarat, INDIA

applies a management system in line with the above standard for the following scope

Manufacture & Supply of Heavy Welded & Machined Metal Components, Heat Treatment Blasting, Painting and Assembly work

Certificate Registration No. 10001250013663

Valid until: 2028-05-10
Initial certification: 2025-05-11

E. Pichler
Certification Body at TÜV AUSTRIA GMBH

Vienna, 2025-05-11

This certification was conducted in accordance with TÜV AUSTRIA auditing and certification procedures and is subject to regular surveillance audits.
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028917-23-1

Number: T2.7-M5-0034792
Revision: 6

Certificate

Inspection of welding process

Certificate No.	01 8610 IN/A-240017.00
Name and address of the manufacturer	SHARP ENGINEERING SERVICES Gat No : 89, Plot No: 2, Jotiba Nagar, Talwade, Pune 412114, Maharashtra India
Specification(s)	EN ISO 3834-2:2021
Test report No.	3834/146921245/2024
Certification scope	Inspection of welding processes according to EN ISO 3834-2
Manufacturing plant	Gat No : 89, Plot No: 2, Jotiba Nagar, Talwade, Pune, 412114, Maharashtra, India
Period of validity	02.08.2024 - 01.08.2029
Zabrze, 02.08.2024	<i>Wojciech Szalek</i> Certification Body





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ISO 14001 & 45001

ISO 9001 : 2015

ISO 3834 (PUNE FACILITY)

*Vadodara under ISO 3834 implementation

BESTALL MACHINING & FABRICATION PVT. LTD.



Industries Served

Steam & Gas Turbines

- HP , LP , IP Casings
- Exhaust Casings
- Base Frames
- Bearing Pedestals & Deflectors
- Diaphragms & Blade carriers
- Casted steam turbine casings
- Turbine & Generator shafts

Customers



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Industries Served

Hydro Turbines

- Head Covers & Bottom rings
- Discharge casings & blades
- Hubs & Stay rings
- Thrust brackets
- Stator Frames
- Valve Bodies & Discs
- Turbine & Generator shafts

Customers



GE Renewable Energy



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Industries Served

General Engineering

- Components for earth moving equipment.
- Components for machine tools & presses.
- Parts of paper machines
- Centrifugal decanter frames.
- Defence components.
- Gear components.

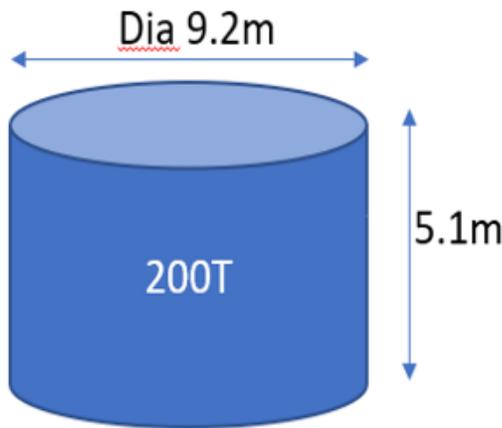
Customers



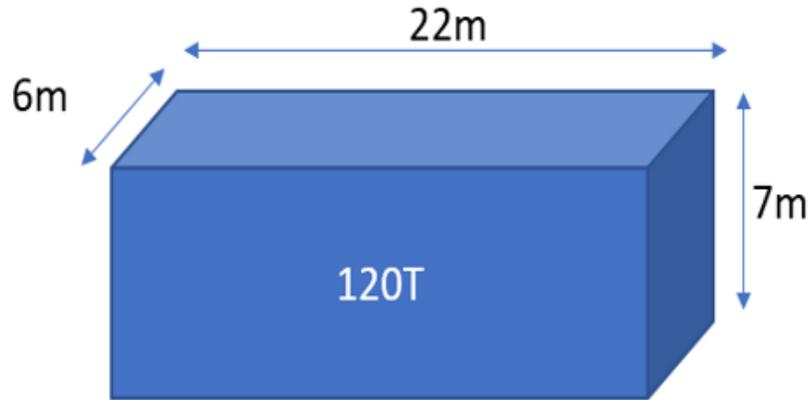


Major highlights of Bestall Machining & Fabrication Pvt. Ltd. (Unit-I & II combined)

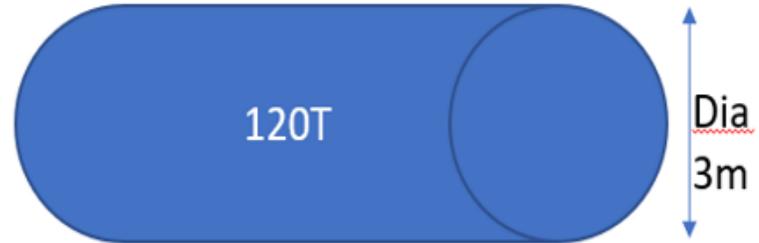
Max component Sizes (welded & machined)



CNC VTL



CNC HBM



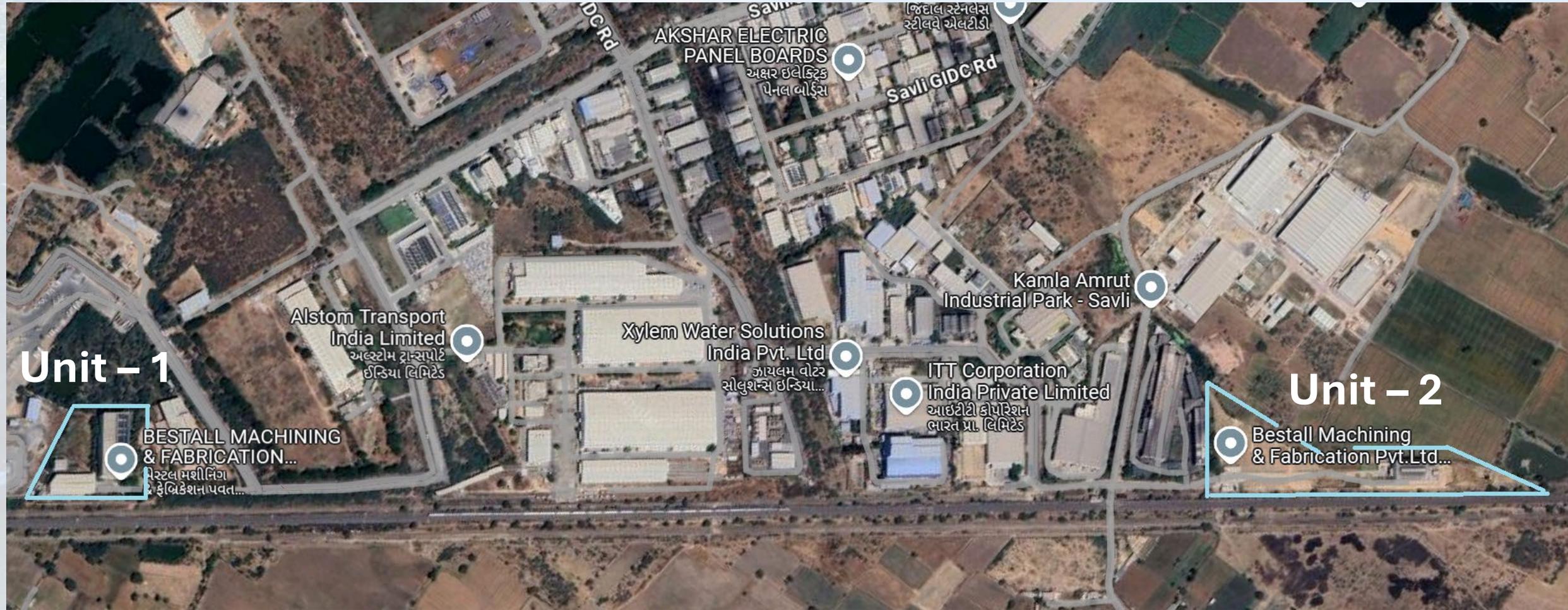
CNC LATHE

Note : The max size of component that can be fabricated is 40x 10m x 10m with max single piece weight of 200 tons.

BESTALL MACHINING & FABRICATION PVT. LTD.



Location



Unit - 1 : Plot No. 734, Phase-III, GIDC Savli, Vadodara (Gujarat) India

Unit - 2 : Plot No. 743, Phase-III, GIDC Savli, Vadodara (Gujarat) India

BESTALL MACHINING & FABRICATION PVT. LTD.



Bestall Machining & Fabrication Pvt. Ltd. Unit – I (Savli – Vadodara) Gujarat - India



Nearest Seaport (Preferred) for connectivity

Mumbai (BPT/JNPT) : 560 Kms

Second Optional Port

Mundra : 460 Kms

Nearest Airport (Domestic)

Vadodara (BDQ) : 20 Kms

Nearest Airport (International)

Ahmedabad (AHM) : 108 Kms

Optional International Airport (Preferred) for connectivity

Mumbai : 420 Kms

Nearest Railway Station

Vadodara (BRC) : 24 Kms

BESTALL MACHINING & FABRICATION PVT. LTD.



Bestall Machining & Fabrication Pvt. Ltd. Unit – II (Savli – Vadodara) Gujarat - India



Nearest Seaport (Preferred) for connectivity

Mumbai (BPT/JNPT) : 560 Kms

Second Optional Port

Mundra : 460 Kms

Nearest Airport (Domestic)

Vadodara (BDQ) : 20 Kms

Nearest Airport (International)

Ahmedabad (AHM) : 108 Kms

Optional International Airport (Preferred) for connectivity

Mumbai : 420 Kms

Nearest Railway Station

Vadodara (BRC) : 24 Kms

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Machines – Vertical Turning Lathes



Make – Niles (USA)

Table Dia – 7.6m

Max Swing – 9.3m

Max Height – 5.2m

Tool Travel – 3.2m

Max Weight – 250 tons

CNC System – Fanuc 31 Oi

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Machines – Vertical Turning & Milling Lathe (Live Spindle & Table Indexing)
(Installation by Jan 2026)



**Make – Toshiba (Shibaura)
(Japan)**

**Table Dia – 6m
Max Swing – 8.6m
Max Height – 4.5m
Tool Travel Turning – 2.5m
Tool Travel Milling – 2m
Spindle Power – 100 Kw
Max Weight – 160 tons
CNC System – Fanuc 31 Oi
1 x Grinding Head
2 x Right angle Milling Head**

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Machines – Floor Type Horizontal Boring & Milling Machine



Make – FPT (Italy)

X Travel – 22m

Y Travel – 7m

Z (RAM) Travel – 2m

W (Spindle) Travel – 1m

Spindle Power – 100 Kw

Indexing Table – 4m x 4m

Table Travel (V) – 3.5m

Table Capacity – 125 tons

Floor Clamping Area – 24m x 8m

D'Andrea UT1000 S CNC Facing Head

D'Andrea UT 340 CNC Facing Head

Infinite angle universal milling head

Right Angle Head

BESTALL MACHINING & FABRICATION PVT. LTD.



Machines – Floor Type Horizontal Boring & Milling Machine



Make – WMW (Romania)

X Travel – 13m

Y Travel – 5m

Z (RAM) Travel – 1.2m

W (Spindle) Travel – 1m

Spindle Power – 100 Kw

Indexing Table – 2.5m x 2.5m

Table Travel (V) – 2.5m

Table Capacity – 40 tons

Floor Clamping Area – 18m x 10m

D'Andrea UT630 S CNC Facing Head

D'Andrea UT 340 CNC Facing Head

Infinite angle universal milling head

Right Angle Head

5 Axis CNC continuous head

BESTALL MACHINING & FABRICATION PVT. LTD.



Machines – Floor Type Horizontal Boring & Milling Machine



Make – Juaristi (Spain)

X Travel – 10m

Y Travel – 4m

Z (RAM) Travel – 1.2m

W (Spindle) Travel – 1m

Spindle Power – 51 Kw

Indexing Table – 3.5m x 3.5m

Table Travel (V) – 3m

Table Capacity – 60 tons

Floor Clamping Area – 10m x 6m

D'Andrea UT630 S CNC Facing Head

D'Andrea UT 340 CNC Facing Head

Infinite angle universal milling head

Right Angle Head

(Installation by Feb 2026)

Machine will be shifted from Pune facility

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Machines – CNC Horizontal Lathe Machine



Make – Karats (Japan)

Chuck Dia – 2.1m

Max Swing – 3.10m

Max Turning Length – 12.25m

Max Weight between centres – 120 tons

2 x Roller Steady Rests

3 x Hydro Static Steady Rests

CNC Control – Fanuc 32 Oi

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Handling Facility Unit - I



- **MAKE : DEMAG**
 - **YEAR : 2012**
 - **MODEL : D125**
 - **MAX LIFT : 16M**
 - **SPAN : 32M**
 - **LONGITUDINAL TRAVEL : 100M**
 - **MAX SWL (Crab-1) – 125 MT**
 - **MAX SWL (Crab-2) – 63MT**
 - **Auxiliary Hook – 20MT**
-
- **We also have a second crane of 30T x 15T**

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Handling Facility Unit - II



- **MAKE : FAFECO**
- **YEAR : 2023**
- **MODEL : F200**
- **MAX LIFT : 13M**
- **SPAN : 24M**
- **LONGITUDINAL TRAVEL : 50M**
- **MAX SWL (Crab-1) – 200 MT**
- **MAX SWL (Crab-2) – 100MT**
- **Auxiliary Hook – 20MT**

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Blasting & Painting Booths with dust collection & mist collection system



9m x 12m x 7m each with 100T transfer trolley



Fabrication Facilities

Welding Machines

- SAW Welding 1200 AMP – 8 Nos
- MIG Welding Machines 850 AMP – 8 Nos
- MIG Welding Machines 500 AMP – 54 Nos
- TIG Welding Machines 400 AMP – 12 Nos
- Welding Robot Fanuc 3000mm – 1 Nos
- Rotary SAW welding arrangements (Upto 12m dia) – 2 Nos
- Gouging transformers 1200 AMP – 3 Nos

Welders

- MIG Welders – 37 Nos
- SAW Operators – 9 Nos
- TIG Welders – 3 Nos
- Gougers – 4 Nos
- Grinders – 32 Nos
- Cutters – 6 Nos

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Pumped Storage Power (PSP) experience

Stayrings

Project	Weight (Tons)	Customer	Total Qty
Pinnapuram PSP	140	Andritz Hydro	2
Gandhisagar PSP	140	Andritz Hydro	4
Chitravathi PSP	130	Andritz Hydro	2
Saundatti PSP	138	GE Vernova	4 (<i>Under execution</i>)

Rotor Spiders

Project	Weight (Tons)	Customer	Total Qty
Pinnapuram PSP	75	Andritz Hydro	4
Gandhisagar PSP	75	Andritz Hydro	4
Kidston PSP	60	Andritz Hydro	2
Gandhisagar Small	45	Andritz Hydro	2

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Pumped Storage Power (PSP) experience

Distributors (Headcover + Bottom Ring + Operating Ring)

Project	Weight (Tons)	Customer	Total Qty
Pinnapuram PSP	115	Andritz Hydro	2
Gandhisagar PSP	115	Andritz Hydro	3
Chitravathi PSP	140	Andritz Hydro	2
Saundatti PSP	160	GE Vernova	4 (<i>Under execution</i>)

MIV (Valve Body + Valve Rotor + Levers)

Project	Weight (Tons)	Customer	Total Qty
Pinnapuram PSP	160	Andritz Hydro	4
Gandhisagar PSP	160	Andritz Hydro	4

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Pumped Storage Power (PSP) experience

DT Cone

Project	Weight (Tons)	Customer	Total Qty
Pinnapuram PSP	40	Andritz Hydro	4
Gandhisagar PSP	40	Andritz Hydro	2
Chitravathi PSP	38	Andritz Hydro	2

MIV Pipes (Downstream + Upstream)

Project	Weight (Tons)	Customer	Total Qty
Pinnapuram PSP	70	Andritz Hydro	4
Gandhisagar PSP	70	Andritz Hydro	4

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Pumped Storage Power (PSP) experience

Bearing Brackets (Upper + Lower)

Project	Weight (Tons)	Customer	Total Qty
Pinnapuram PSP	70	Andritz Hydro	4
Gandhisagar PSP	70	Andritz Hydro	2

Turbine & Generator Shafts

Project	Weight (Tons)	Customer	Total Qty
Pinnapuram PSP	42	Andritz Hydro	4
Gandhisagar PSP	42	Andritz Hydro	4
Kiru HEPP	38	Andritz Hydro	4
Polavaram	88	BHEL	2
Ikusaka	24	Voith Hydro	1

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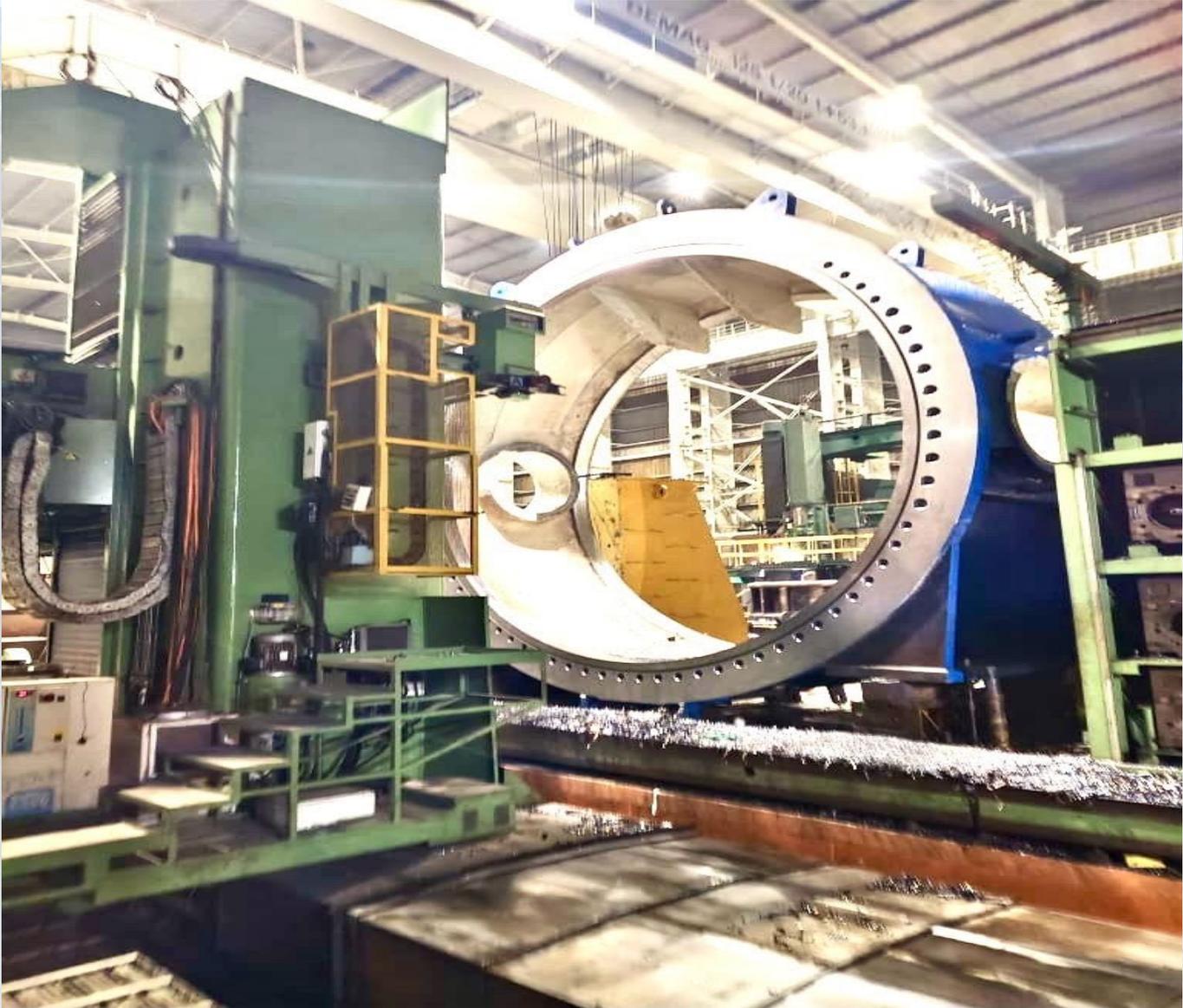
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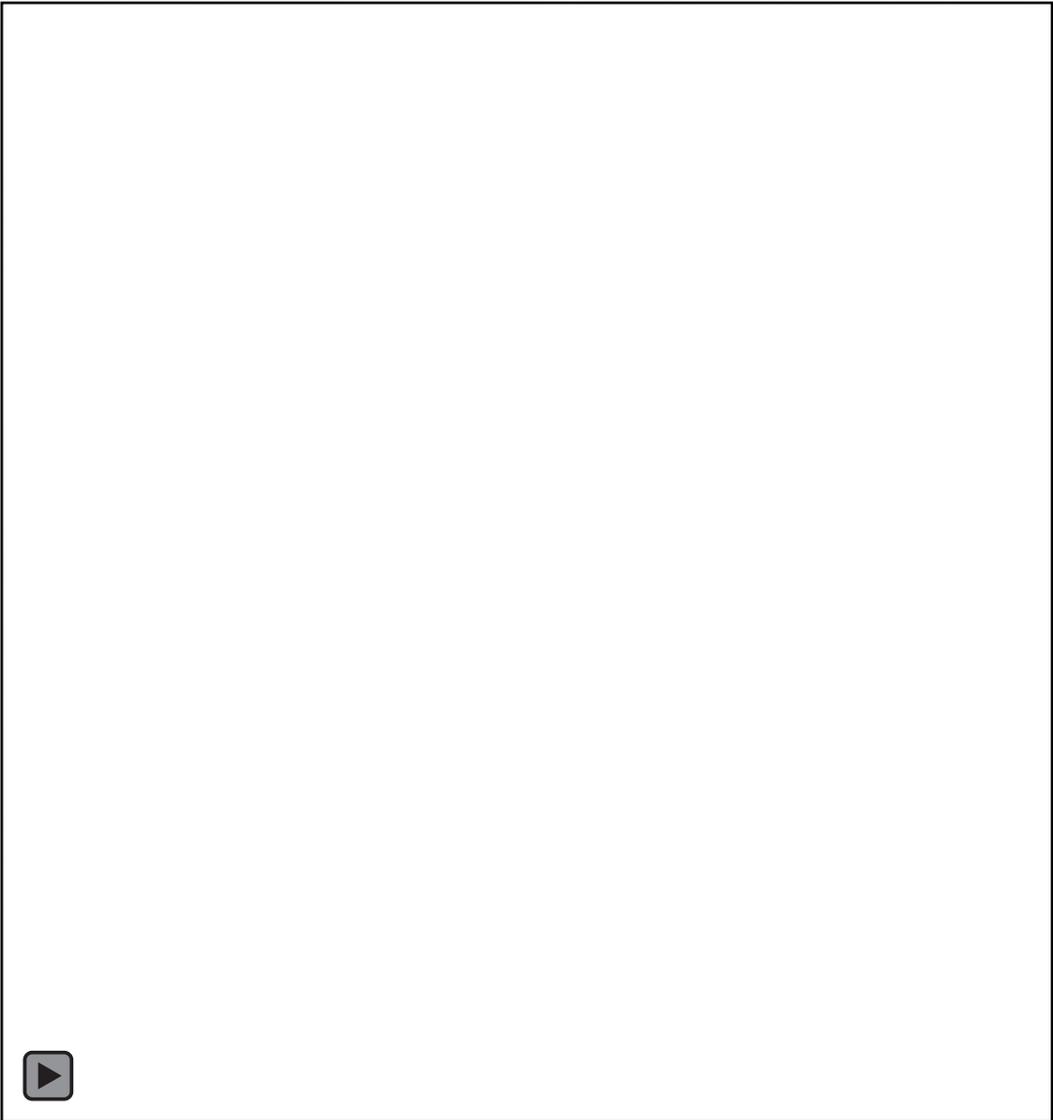
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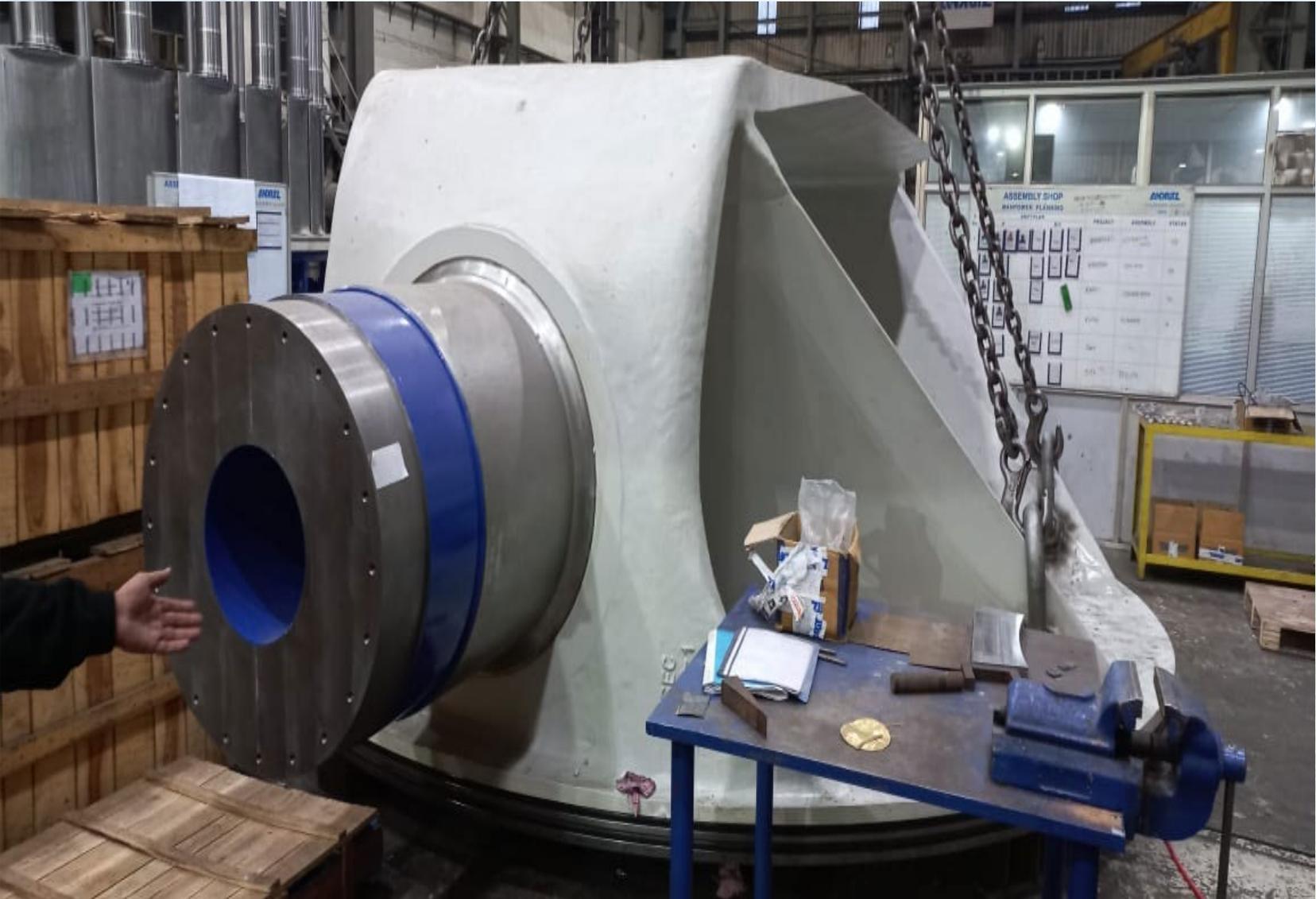


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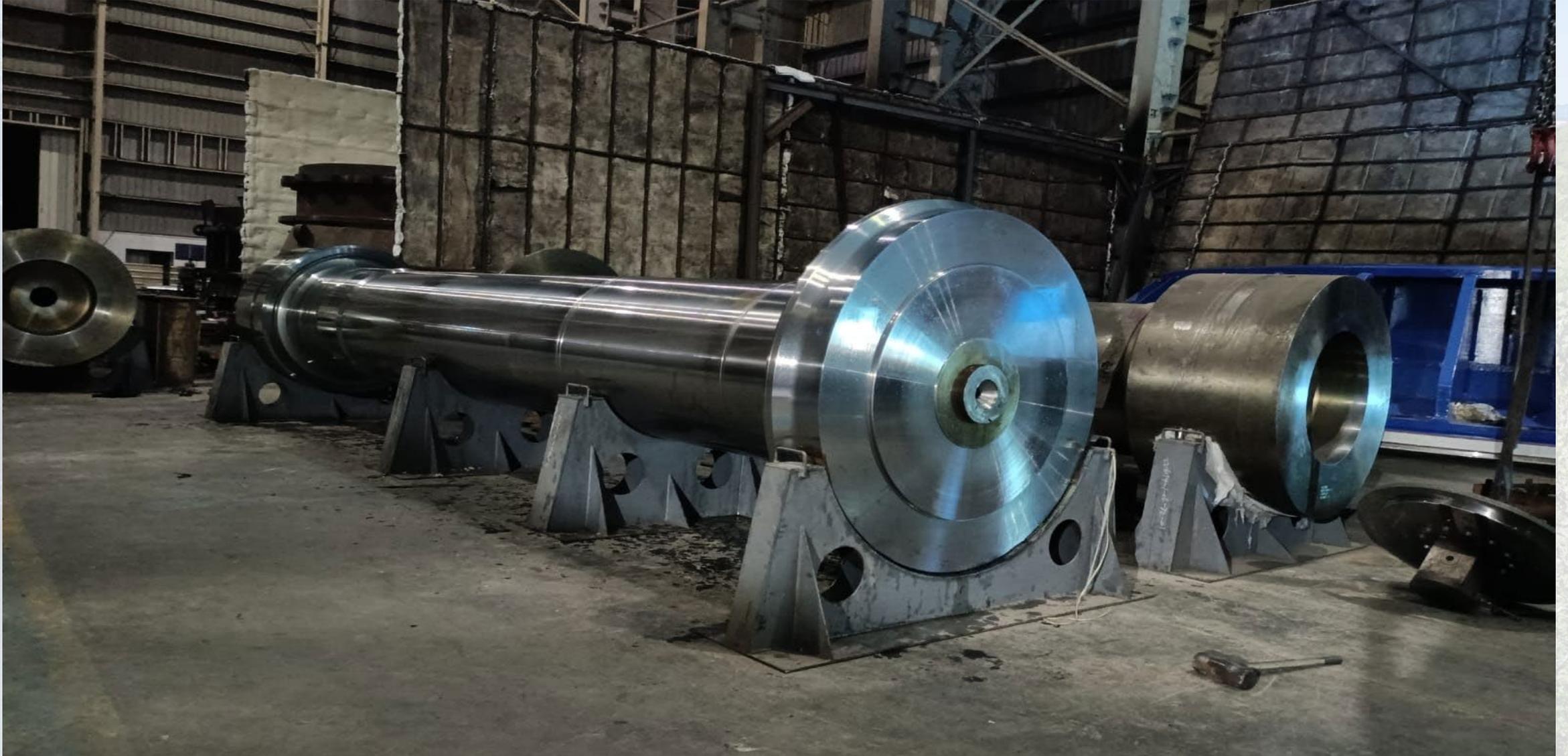


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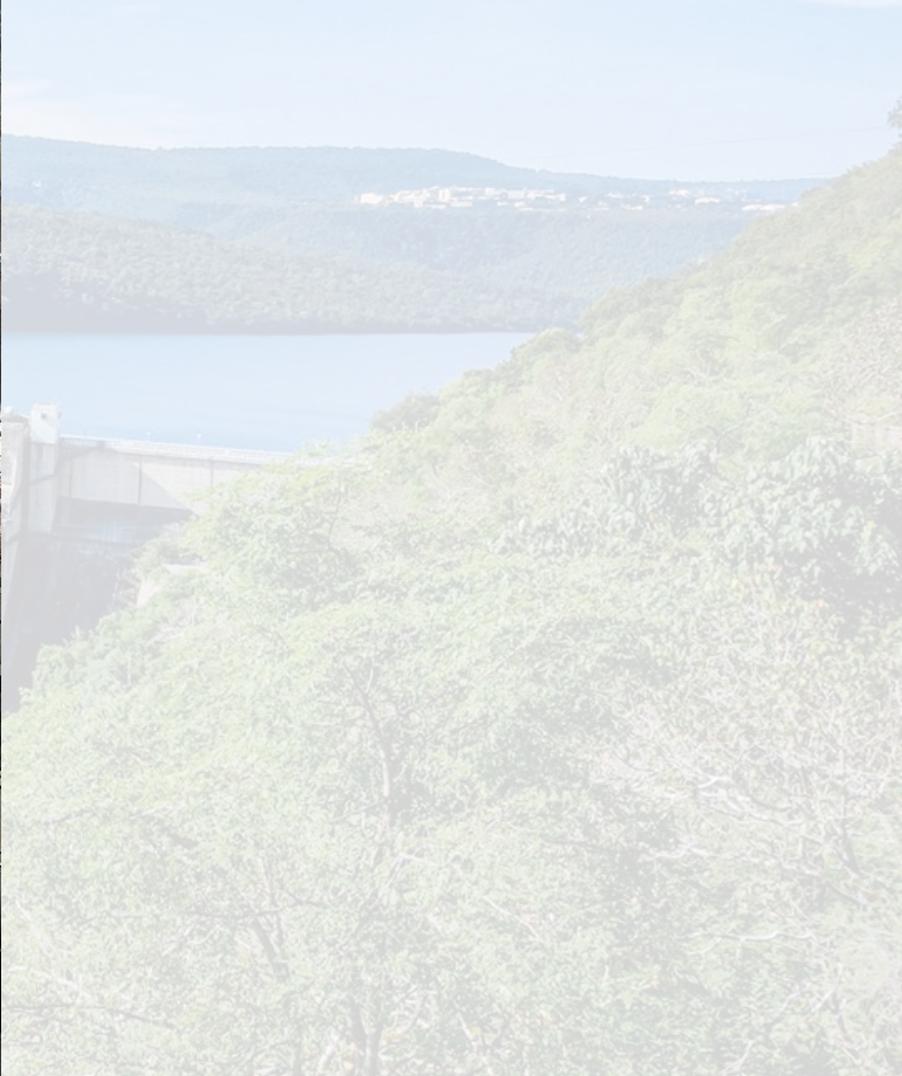
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Sharp Engineering Services Unit – I (Talawade – Pune) Maharashtra - India



Nearest Seaport (Preferred) for connectivity

Mumbai (BPT/JNPT) : 120 Kms

Second Optional Port

Mumbai Port (BPT) : 142 Kms

Nearest Airport (Domestic)

Pune (PNQ) : 17 Kms

Nearest Airport (International)

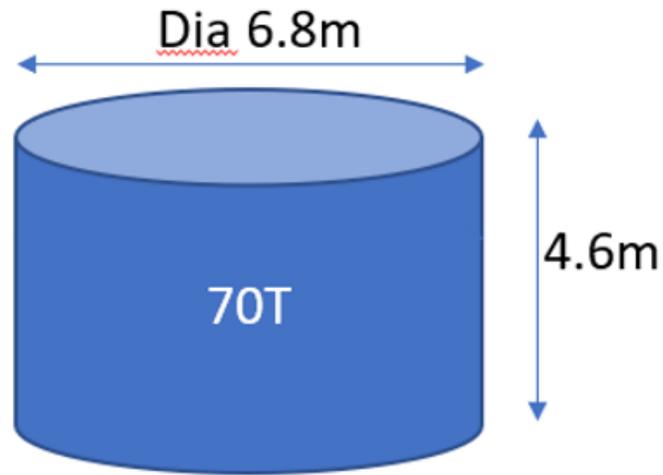
Mumbai (BOM) : 140 Kms

Nearest Railway Station

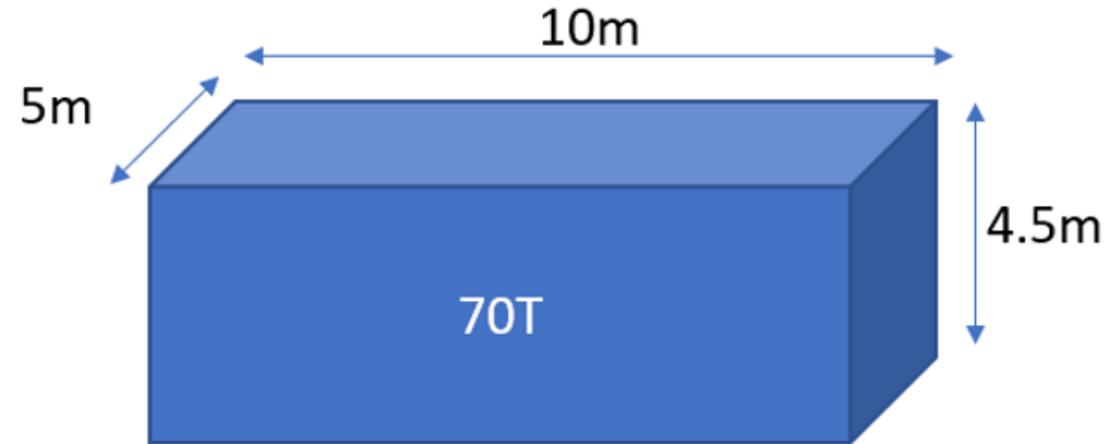
Pune (PUN) : 18 Kms

Major highlights of Sharp Engineering Services. (Unit-I & II combined)

Max component Sizes (welded & machined)



CNC VTL



CNC HBM

Note : The max size of component that can be fabricated is 20 x 9m x 9m with max single piece weight of 70 tons.

Machining facilities at Sharp Engineering Services. (Unit-I & II combined)



CNC Horizontal Boring Machine-1
X – 10m
Y – 4.5m
Z – 1.5m , W – 0.7m
Indexing Table – 2.5m x 3m
Weight Capacity – 35 tons
Universal Head
Facing & Turning Head



CNC Horizontal Boring Machine-2
X – 10m
Y – 4m
Z – 1.2m , W – 0.8m
Indexing Table – 3.5m x 3m
Weight Capacity – 70 tons
Universal Head
Facing & Turning Head



CNC Horizontal Boring Machine-3
X – 4m
Y – 3m
Z – 1.5m , W – 0.7m
Indexing Table – 2.5m x 3m
Weight Capacity – 25 tons
Universal Head
Facing & Turning Head

Machining facilities at Sharp Engineering Services. (Unit-I & II combined)



CNC Vertical Lathe (VTL)-1
Table Dia – 6.3m
Max Swing – 6.9m
Max Working Height – 3.7m
Tool Travel – 2.5m
Weight Capacity – 100 tons
Grinding Attachment



CNC Vertical Lathe (VTL)-2
Table Dia – 4.6m
Max Swing – 5.2m
Max Working Height – 4.7m
Tool Travel – 2.5m
Weight Capacity – 70 tons
Grinding Attachment



CNC Vertical Machining Center
X – 2.5m
Y – 1.7m
Z – 1.2m
Max Height – 1.5m
Weight Capacity – 15 tons
Universal Head
Facing & Turning Head

BESTALL MACHINING & FABRICATION PVT. LTD.





Thank You !!!

Contact :

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