



ABOUT US

SUBHADRA METALS PVT LTD (SMPL) was established in the year 2000 as a non-ferrous foundry with a primary focus on marine propellers & stern gears. Over the past 20 years, our company has grown from a small startup into an industry leader, fueled by dedication and customer satisfaction. We embraced innovation and overcame challenges, continuously adapting to dynamic markets. Our exceptional team of professionals has been instrumental in propelling us to new heights. With a global presence and strong alliances, we've solidified our position in the market. As we celebrate our journey, we remain committed to an even brighter future of limitless possibilities.

With decades of expertise and a commitment to innovation, we specialize in the art of casting non-ferrous alloys to create an unmatched product range which includes propellers, stern-gears, propeller shafts, Valves, coupling, gland housing, rudder cutlass bearing, fabricated rudder assembly, mechanical steering systems, anchors, non-ferrous casting bush, cathodes and anodes pumps that excel in performance, durability, and efficiency.

Quality Assurance:
Our Commitment to Excellence

TESTIMONIAL

It was indeed great to Visit Subhadra metals Head Office and workshop. Observed well developed workshop and followed SOPs for Manufacturing Propeller blades with Customer satisfaction and keeping in mind about quality of product. Very Good staff and skilled Craftsman working in full energetic mode. Hope the same will be maintained and continued for future growth and development.

- Pranav Dave

*Associate Manager (Techno Commercial)
Adani Ports and Special Economic Zone Ltd (APSEZL)*

I am writing to thank you for the quality of service provided by your company. We sincerely appreciate your efficient, gracious customer service, the level of detail and accountability you have demonstrated on each project, and the way you conduct business as a whole. Keep up the good work.

- Krunal Soni

Yade Barge Operators Ltd. | Lagos, Nigeria

The name Subhadra Metals Pvt Ltd signifies to us firstly a Prompt Response to our Queries and off course Excellent Workmanship that which matches our Specifications and Expectations to the fullest

- Surojit Dutta

ReachAsia | Eastern Navigation Pvt Ltd

It has been a pleasure to work with M/s Subhadra metals, Bombay. We appreciate its prompt and polite Service, flexible approach, regular updates and timely deliveries. Best Wishes to Subhadra team to scale greater heights.

- K. J. Roy

Naval Architect | Blazer Marine LLC, Dubai, U A E.

We have worked with Subhadra Metals on multiple Marine projects and greatly appreciate their commitment and understanding. The company has met even the tiniest statutory requirements and has been flexible to discuss and modify as needed by the customer. Their commitment to timely deliveries as well as team efforts are very much appreciated.

- Sudhir kasliwal

*AGM - Marine | JSW Jaigarh Port Ltd.
Maharashtra, India*

Subhadra Metals Pvt. Ltd. (SMPL) is a very professional company with a dedicated team. The best part about SMPL is that due to the well planned infrastructure, all the manufacturing processes are inhouse with almost negligible outsourcing which has resulted in a high efficiency in terms of time saving and also cost saving. A special mention to the Reverse Engineering capability where equipment has been manufactured/refurbished from defective samples where neither drawings nor OEM assistance was available.

- Commander Amit Bhadkamkar (Retd.).

*Vice President (New Projects)
for Krasny Defence Technologies Ltd*

GROWTH

SMPL's Global Footprint

Proud partners of marine export players catering to Europe, UAE, Sri Lanka, Maldives, Singapore, Bangladesh... while continuing to increase footprint in local market



"With a robust induction furnace at its core, our non-ferrous foundry stands as an industry powerhouse, boasting an impressive 4-ton single pouring capacity." a game-changer in metallurgy, boosting productivity and energy efficiency." With this capability, we can handle large-scale casting projects efficiently and effectively. Our state-of-the-art facilities and experienced team ensure precise and high-quality pours, meeting the most demanding specifications. Whether it's aluminum, copper, or other non-ferrous materials, our foundry has the capacity to deliver exceptional results.

We combine traditional craftsmanship with cutting-edge technology to ensure that each Casting is meticulously crafted to meet the highest industry standards. From the initial design phase to the final product, our team takes great care in every step of the manufacturing process.

*Discover Excellence in
Non-Ferrous Casting*

FOUNDRY



PROPELLERS



At our Non-Ferrous Foundry, we take pride in being a leading provider of high-quality marine propellers.

We employ a comprehensive testing process to ensure that each propeller meets or exceeds industry standards. From material testing to dimensional accuracy checks, every propeller undergoes rigorous inspections before leaving our facility.

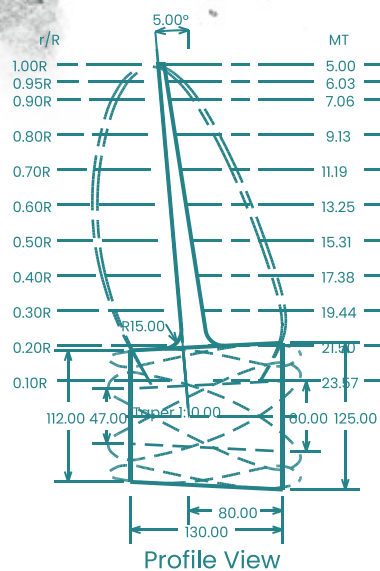
From blade geometry to thrust analysis, it unleashes creativity, a propeller engineer's paradise. Efficient calculations, hydro dynamic simulations, prop cad software accelerates marine innovations. Hydrocom Prop Expert is a software designed for hydrodynamic analysis and performance prediction of marine propellers. It offers advanced features for propeller design, optimization, and analysis. The software provides accurate calculations of thrust, torque, efficiency, and cavitation characteristics. Hydrocom Prop Expert is widely used in the maritime industry for propeller performance evaluation and design improvement.

"Our company employs MRI scanning to meticulously verify the pitch of our manufactured propellers."

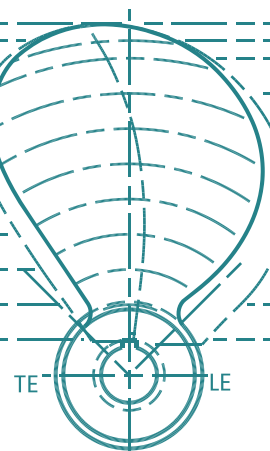
"Utilizing MRI scanning, we ensure the pitch accuracy of our company's manufactured propellers."

*Craftsmanship
and Precision*

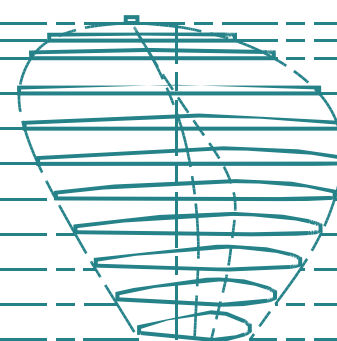




Pitch Distribution



Transverse View



Expanded View

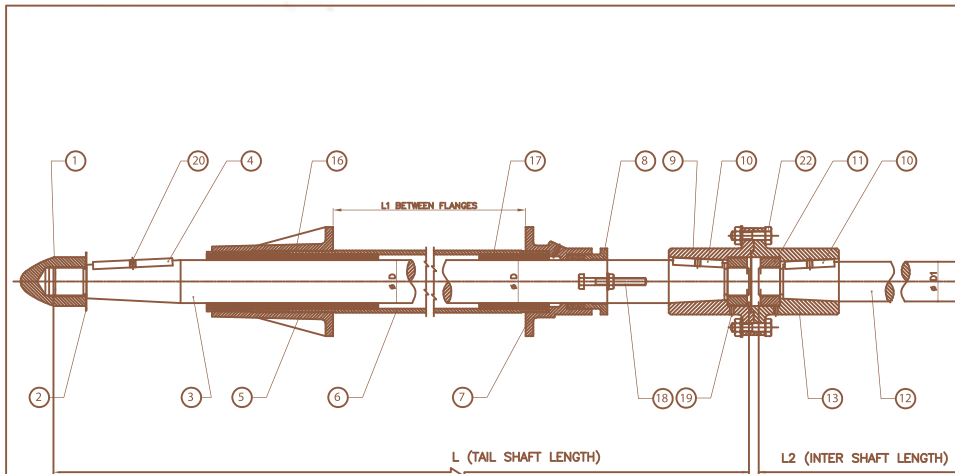
Propeller type	FPP
Rotation	Right
Key type	Keyed
Number of blades	4
Diameter	600.00mm
Reference pitch	750.00mm
Effective pitch	750.00mm
Expanded area ratio	0.7303
Rake of GL aft	5.000deg
Total skew	14.00 deg
Material type	Ni-Al bronze

Density	7.50 g/cm3
Design power	0 kW
Design shaft RPM	0 RPM
Thickness rule	None
Max t @ 0.25	20.47 mm
Weight	25 kg
Mass moment of inertia (air)	520350 kg-mm2
Added wetted MOI (SG=1)	227870 kg-mm2
Added wetted mass (rotating)	15 kg
Added wetted mass (locked)	18 kg
Mean width ratio	0.357

STERN GEAR

Our stern gear is designed to withstand the harsh conditions of marine environments. Constructed using high-quality materials such as SS 316 or Duplex series material which offers exceptional durability and resistance to corrosion. These components undergo stringent quality control measures to ensure their reliability, allowing vessels to operate safely and efficiently even in demanding conditions.

Durability and Reliability



BILL OF MATERIAL (QTY- 01 PER SET)					
S.R. NO.	DESCRIPTION	SIZE	MATERIAL	QTY	REMARK
1	PROPELLER CONE NUT	REFER DRG	BRASS	1	
2	TAIL SHAFT LOCKING WASHER	REFER DRG	S.S.	1	
3	TAIL SHAFT	REFER DRG	S.S. 304/316	1	
4	PROPELLER KEY	REFER DRG	BRASS/SS	1	
5	AFT GLAND	REFER DRG	MB Cu1	1	
6	STERN TUBE	REFER DRG	BRASS/SS	1	
7	FWD GLAND HOUSING	REFER DRG	MB Cu1	1	
8	GLAND COVER	REFER DRG	MB Cu1	1	
9	TAIL SHAFT COUPLING	REFER DRG	M.S.	1	
10	COUPLING KEY	REFER DRG	S.S.	2	
11	COUPLING NUT	REFER DRG	M.S.	2	
12	INTERMEDIATE SHAFT	REFER DRG	EN-8	1	
13	INTERMEDIATE SHAFT COUPLING	REFER DRG	M.S.	1	
14	CONE NUT SPANNER	REFER DRG	M.S.	1	
15	COUPLING SPANNER PIN	REFER DRG	EN-8	2	
16	BRASS/SS SHELL CUTLESS RUBBER BUSH - FULL	-	BRASS/SS RUBBER	1	
17	BRASS/SS SHELL CUTLESS RUBBER BUSH - HALF	-	BRASS/SS RUBBER	1	
18	STUD WITH NUT	-	SS	2	
19	GRUB SCREW FOR COUPLING	-	SS	2	
20	GRUB SCREW FOR KEY	-	SS	3	
21	GRUB SCREW FOR STERN TUBE	-	SS	4	
22	COUPLING BOLTS WITH NUTS	-	HIGH TENSILE	-	

DESCRIPTION	PARAMETER	ACTUAL	REMARK
TAILSHAFT DIAMETER	Ø D		
TAILSHAFT LENGTH	L		
INTER SHAFT DIAMETER	ØD 1		
INTER SHAFT LENGTH	L 1		
STERN TUBE BETWEEN FLANGES	L 2		

CUSTOMER :			P.O./CONTRACT REF. :		
PROJECT : STERNGEAR ARRANGEMENT					
CONSULTANT :					
REV. No.	DATE	DESCRIPTION	BY	DATE	NAME
1			DRASR		DRASR
2			CH/AC		CH/AC
3			CH/CA		CH/CA
4			CH/CA		CH/CA
5			APD		APD
SUPERSEDED DRG. No. :			SCALE :		
CAD DRG. No. : STGR ARRANGEMENT			DRG. No. : SMPL-2023-01-001-A3		
			REV. SHEET 01 OF 1		

PRODUCTS |



V BRACKET



P BRACKET



CASTED RUDDER



PLATED / WELDED ANODES



SHAFT BALL ANODE



RUDDER ANODES



BOLTED ANODES



SHAFT NUT ANODE



SHAFT RING

SMPL has a capacity to undertake and execute orders as per your drawing/ sample in any specification from 5 Kg to 2000 Kg as single piece casting.

DIN standards of following:

- | | |
|--------------------|---------------------------|
| 1. Phosphor bronze | 5. Nickel aluminum bronze |
| 2. Tin bronze | 6. Manganese bronze |
| 3. Lead bronze | 7. Gunmetal |
| 4. Aluminum bronze | 8. Brass |



Globe Valve
SIZE 15mm to 300mm



GATE VALVE
SIZE 50mm to 300mm



BUTTERFLY VALVE
SIZE 25mm to 300mm
Pressure Class- 150 & 300



CHECK VALVE
SIZE- 15mm to 300mm.
Pressure Class-NL:150 and
others 150 and 300



Ball Valve- ½" to 12"



SDNR/SDSL Valve ½' to 12'

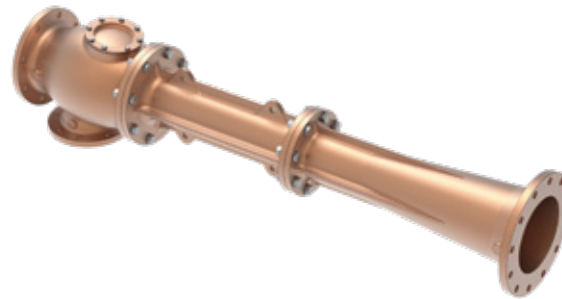


Stainer

VALVES



VALVES |



Ejector:

Nickel Aluminum Bronze, material,
DN 400. SMPL can
manufacture from 2" to 4" , Range -
DN 50 to DN 100



LG4C Valves for Coast Guard-
450/750 & 950 mm



Geomagic:

Geomagic is a software application tailored to meet our specific needs of Reverse Engineering. Overall, Geomagic is a powerful tool for working with 3D data, allowing users to capture physical objects in digital form, edit the data, perform analysis and inspection tasks, and integrate the data into the design and manufacturing processes.



API Scanners :

SMPL utilizes an API scanner, a powerful tool for analyzing and inspecting application programming interfaces (APIs). deprecated features, and other issues that might impact the integration or security of our applications.

Propeller blades are vital components of various propulsion systems, including aircraft, ships, and wind turbines. Reverse engineering is the process of deconstructing and analyzing an existing product or component to understand its design, functionality, and manufacturing process. Reverse engineering propeller blades allows engineers to gain valuable insights into their aerodynamic performance, structural integrity, and material properties. This knowledge can be used to improve existing designs, optimize performance, and develop new and innovative solutions.

REPAIRS



FABRICATION



Project : Successfully constructed and delivered a GL-approved crane pedestal using Grade E metal sheets, 40mm thickness , rolled to diameter of 5 meters and length of 23 meters. Erected on the platform of self propelled crane barge. Met high standards of safety and quality in shipbuilding."



KORT NOZZELE

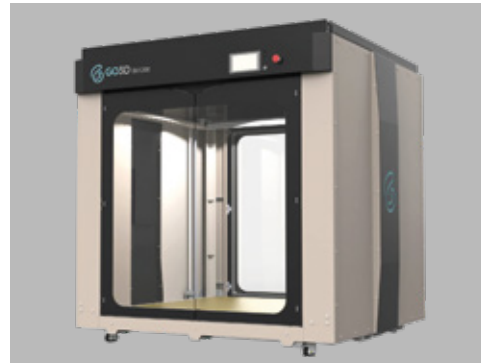


VOLUMETRIC RUDDER



Patronus - Our In-House Pattern Shop*

- 3D Printing Machine: Our advanced 3D printer allows for rapid prototyping and the creation of highly accurate, complex patterns, perfect for intricate components like propellers and valves.
- Skilled Pattern Makers: Experienced craftsmen bring exceptional detail and quality to every pattern, ensuring high standards.
- Router Machines: Precision routers boost accuracy and production efficiency, maintaining exact specifications.



- Design Software: Advanced software (Solid Edge, NX CAM, Geomagic) supports precise digital modeling, enabling seamless and consistent pattern creation.

This blend of technology and expertise at Patronus ensures flawless wooden and aluminum patterns for critical applications.

PATRONUS



CLASSIFICATION APPROVALS AND ISO ACCREDITATION



IRCLASS
Indian Register of Shipping



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