

CREATING VALUE BY TECHNOLOGY



PRODUCT PORTFOLIO

BEARING HOUSINGS | PILLOW BLOCKS | ACCESSORIES | CASTING COMPONENTS

Since 1946

INTRODUCTION

Masta Bearing Housing Pvt Ltd, is the leading and well-established manufacturer and exporter of Plummer Blocks / Bearing Housings and its related accessories, located in Ahmedabad a city of vibrant Gujarat in India.

Started with two drills and a conventional lathe in the year 1946, over the years MASTA has developed significantly with environment friendly green field foundries suitable for Green sand moulding and No-Bake Resin sand plant. Our state of art manufacturing facilities spread over more than 2.5 acres area with capacity of manufacturing more than 12,000 Metric Tons of castings in various international standard grades and 3.6 lakhs of bearing housings per annum.

Since, one decade we worked on the concept of Make-In India and our leadership vision is to establish the global distribution network and develop a supply chain to the Original Equipment Manufacturers (OEMs) and End Users to enhance our global footprints. As a part of our move, we have developed numerous renowned channel partners globally and domestically.

The energetic, enthusiastic, and experienced top management supported by well-experienced employees having long association are the backbone of the organization. Our organization works in compliance with codes of Ethical Principles, Discipline, and Quality.

HOW WE ADD VALUE TO OUR CLIENTS



Wide Range of Bearing Housing & its related Accessories



Outstanding Product Quality & Reliability



Competitive Market Price



Comprehensive Product Warranty



Superior Customized Solution



In-house state-of-art Manufacturing Facilities

The features that make us market leaders

Our Experience
(Since 1946)



Manufacturing Facility
Modern Foundry



Quality Control



Customization Support



Global Export



Technology Innovation



Clients Satisfaction



Efficiency & Reliability



After Sales Services &
Technical Support



Certifications



Environment, Health and Safety:

- In Masta every process and activity is formed with specific attention to conserve Environment, which is prime duty of every employee in Masta.
- Our Human Resource Department is active to continuously maintain safety and health norms in the company.
- Whole Masta team work as a MASTA Family in a cordial atmosphere in the workplace.

www.mastagroup.com

MANUFACTURING CAPABILITY



- Foundry capacity of 12000 metric tonne per annum.
- DISA Match high pressure moulding line.
- Arpa moulding machines- 300 and 450.
- Fully automatic cold-core shooting machines.
- Dual track induction furnace.
- Semi Automatic Heat Treatment Furnace.
- Shot Blasting and Fettling Facilities.
- Conveyor Operated Paint Shop.
- 30000 Nos. of Bearing Housings (Plummer Block) per month.
- Develop 3D Models for patterns. Make Patterns and Toolings on VMC machines.

- Accurately Machined on HMC-CNC Turning Centers, Vertical Machining Centers.
- Testing laboratory for sand, metal and finished products. Non destructive testing such as U.T., MPT., LPT.
- Masta can produce customised bearing housings as per specific application and customer drawing.
- Micro structure testing facilities. Radiography tests are offered from approved vendors if required.
- Various castings can be produce in Graded Cast Iron, Ductile Iron / S. G. Iron, Cast Steel, Manganese Steel, Hi-Chrome and Alloy Steel.



QUALITY PARAMETERS



QUALITY CONTROL & ASSURANCE

MASTA group is certified with ISO 9001, 14001, 45001, PED (Pressure Equipment Directives), and CE certificates. The prime focus of MASTA is on its core strength of manufacturing wide range of bearing housings, through continual technological improvement, innovation and upgradation of infrastructural facilities, maintaining stringent norms of Quality control with unparalleled customer service. MASTA is maintaining growth centric development with mass production and crave to be a world leading brand (for beating the global leaders) through its QUALITY, CUSTOMER SERVICE & COMPETITIVE EDGE. Supreme strength of the company is its IN-HOUSE manufacturing facilities for all activities such as designing, making tooling and patterns, casting, machining, assembling, painting to meet any specification, offering inspection to third party inspecting agencies, packing and despatch.



SAND TESTING LAB

Our sand testing laboratory controls the quality of sand and mould, which ultimately results in excellent aesthetic and quality of casting. The laboratory is equipped with compressive strength tester, permeability tester, rapid moisture testing, mould hardness tester, compactness tester, and sand sieves.

MATERIAL TESTING LAB

Our Quality Laboratory is equipped with in-house Material property testing and non-destructive testing facility to ensure soundness and correct quality parameters of material.

- Spectrometer-Chemical Analyzer
- Tensile Testing Machine
- Impact Testing Machine
- Metal Hardness Testing Equipment
- Ultrasonic Testing Equipment
- Magnetic Particle testing Equipment
- Die Penetration testing Facility
- Microscope - Micro structure Analyzer
- Radiographic examination through approved lab
- We produce Radiographic quality castings on specific requirement.



New High Pressure Moulding Line

Creating Value by Technology



THE PROCESS



Type	Description	Components Weight	Mould Size
Fully Automatic Moulding Line	DISA MATCH 20/24 Flaskless High Pressure Moulding Machine	1 Kgs. To 50 Kgs.	610 x 510 x 200
Semi Automatic	ARPA 300	3 Kgs. To 60 Kgs.	750 x 460 x 150
	ARPA 450	10 Kgs. To 140 Kgs.	940 x 550 x 200



T H E P R O C E S S

- DISA Match C20/24 Fully Automatic High-Pressure Moulding Line.
- DISA sand plant with sand multi controller (SMC).
- Speed up-to 120 moulds Per Hour.
- Automatic Weight and Jacket transfer system.
- Shot blasting and fettling facilities.
- Dual chamber automatic cold core shooting machine.
- Pouring through Bi-rail ladle lifting crane to move the ladle most accurately from mould to mould.



PRODUCT RANGE - Bearing Housing



SN SERIES



Base Construction with one Rib

- Dimensions as per International standard ISO 113.
- Simple construction, Hollow base with one Rib.
- Only Felt seal can be used.
- Suitable for Light load and moderate speeds Grease lubrication, like in Conveyors.
- Suitable for shaft Sizes: 20 mm to 140 mm.



SNA SERIES



Improved Base construction with one thick Rib

- Enhanced version of SN series makes it better design . Provision for drain plug.
- Base with one thick rib and round corners for dowelling.
- Four types of seal can be used: Felt seal (TC), Four Lip seal (TL), V Seal (TA) & Labyrinth seal (TS).
- Suitable for comparative heavier load and speed, Grease lubrication, like in conveyor and light fan application.
- Suitable for shaft Sizes: 20 mm to 140 mm.



SNH SERIES

- Versatile design with flat base, and sides, provision for oil inlet, drain plug, connection for vibration and temperature probe.
- More sturdy base with crossed rib at centre & two ribs at sides, give more load carrying capacity.
- All four types of seal can be used, TC, TL, TA, TS.
- Taconite seal can also be used.
- Suitable for Higher load and speeds Grease & Oil lubrication, heavier application having vibrations.
- Suitable for shaft Sizes: 20 mm to 140 mm.



Sturdy base with Crossed Rib



Sturdy base with Crossed Rib



SNL SERIES

- Latest and universal design having all features of previous series; added with flat base, and sides, provision for oil inlet, drain plug, connection for vibration and temperature probe.
- More sturdy base with crossed rib at centre & side ribs, increased load carrying capacity.
- All five types of seal can be used, TC, T L , TA, TS, Taconite seal can also be used.
- Suitable for Heavier load and speed; Grease and Oil lubrication, best choice for application with temperature, vibrations, like in industrial fan.
- Suitable for shaft Sizes: 20 mm to 140 mm.



SN 30 SERIES

- SN 30 is stronger version in the SN series.
- Increased load carrying capacity to suit bearing of 230 series.
- Normally felt seal is used and additional V seal can be mounted. Labyrinth seal can be fitted as per application.
- Suitable for Heavy load, designed for Grease lubrication with provision for grease inlet and drain.
- Suitable for shaft Sizes: 110 mm to 260 mm.

SD SERIES

- SD series is a heavy duty bearing housing.
- It has very strong base, some design are provided with Rib un till at sides base for added strength.
- Range of Bearing series 231,230,222,223 can be fitted in SD series.
- Labyrinth seal with O cord is used.
- Suitable for Heavy load and severe application like Cement, Mining, Steel, Material Handling etc.
- Grease lubrication with provision for grease inlet and drain.
- Suitable for shaft Sizes: 150 mm to 400 mm.



SDJ SERIES

- SDJ series is extension to SD designed to carry very heavier loads.
- It has very strong base and external thick rib to connect base adds to its capacity to carry axial loads also.
- With standard Labyrinth seal with O cord is used.
- Suitable for Very Heavy load and severe application like Cement, Mining, Steel, Normally Grease lubrication.
- Suitable for shaft Sizes: 320 mm to 450 mm.



SAF SERIES

- SAF series is suitable for heavier radial load and shock load.
- It has extra heavy base.
- Normally Triple Seal (LER) is used. For dusty environment Taconite seal (TER) is used.
- Suitable for Very Heavy load and severe application like Cement and steel, used with Grease lubrication.
- Suitable for shaft Sizes: 20 mm to 200 mm Note: SAF series is an inch series design and shaft sizes in inch is normally available.

SDAF SERIES

- SDAF series is extension of SAF series and have robust construction suitable for heavy impact and thrust loads.
- It has extra heavy base.
- Normally Triple Seal (LER) is supplied. Also Taconite (TER) seal is available.
- Suitable for Very Heavy load and severe application like Cement and steel, used with Grease or Oil lubrication.
- Suitable for shaft Sizes: 68.26 mm to 222.25 mm.

Note: SDAF series is an inch series design and shaft sizes in inch is normally available.



LARGE SNL SERIES

- SNL LARGE series is designed for heavy duty.
- It has very strong base.
- Bearing of series 231,230,222,223,232,c30,c31,c22 can be fitted.
- Labyrinth seal with O cord is used Taconite seal is also used.
- Suitable for Heavy load and severe application like Cement, Mining, Steel, material handling etc.
- Grease and Oil lubrication.
- Suitable for shaft Sizes: 150 mm to 530 mm.

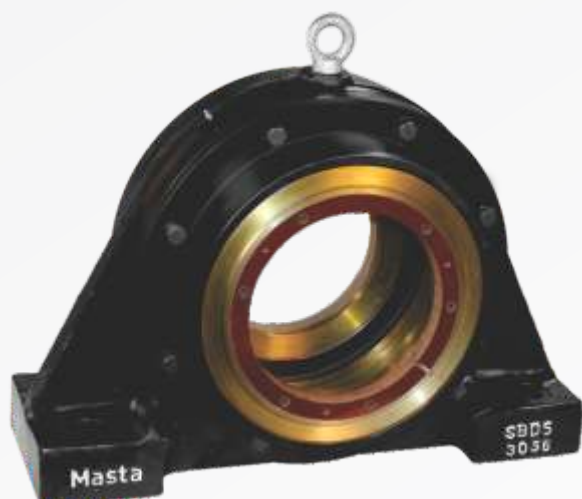


SOFN SERIES

- SOFN series is design for heavy load and continuous application. It is principally Oil Lubricated type.
- It is horizontally split type with two end covers on two sides. It has very strong base to carry load in radial, axial and inclined direction.
- Oil Splash lubrication is provided in housing. For high speed and high temperature service external oil lubrication is possible.
- Grooved Sealing Collar is used to prevent any oil leakage.
- Suitable for -Industrial Fan application and popular in Cement, Mining, Steel, Power etc industries.
- Suitable for shaft Sizes: 50 mm to 240 mm.

LOE SERIES

- LOE series has similar construction as that of SOFN series.
- Dimension and design have minor changes. It is also used for heavy load and continuous application and Oil Lubricated type.
- It is horizontally split type with two end covers on two sides. It has very strong base to carry load in radial, axial and inclined direction.
- Oil Splash lubrication is provided in housing. For high speed and high temperature service external oil lubrication is possible.
- Grooved Sealing Collar is used to prevent any oil leakage
- Suitable for -Industrial Fan application and popular in Cement, Mining, Steel, Power etc industries.
- Suitable for shaft Sizes: 50 mm to 240 mm.



SBD / BND SERIES

- SBD / BND series is a one-piece housing without any split in between. On two sides there are two covers.
- It has very stronger base and external thick rib to connect base. SBD / BND series is designed to take load acting in right angle to foundation support.
- Axial Labyrinth seal is used in this type.
- Suitable for Heavy load in multiple directions, and Grease lubrication. It is preferred in mining industry, heavy duty conveyor belt pulleys, wagon tippler and steel industry.
- Suitable for shaft Sizes: 90 mm to 400 mm.



THD / SPA SERIES

- THD series is a one-piece housing without any split in between. On two sides there are two covers.
- SPA series is similar design to that of THD series, and they are interchangeable.
- At one end fork arms are provided to facilitate fitment of anchor pin of take up application.
- Axial Labyrinth seal is used in this type.
- Suitable for -Heavy pulling load in multiple directions. It is used in take up pulley for conveyor belt tensioning application. It has grease lubrication.
- Suitable for shaft Sizes: 50 mm to 530 mm.

SDG SERIES

- SDG series is large heavy duty housing. It is extremely reliable design for heavy load application and hence widely used.
- It is split type with a cover on one side. Its base construction is very strong with crossed ribs.
- Housing feet has machined pads on two sides for proper alignment while mounting.
- Labyrinth seal is used. Supplementary felt seal is provided. Additional V seal can be used.
- Suitable for Heavy duty with continuous application and Grease lubrication. It is preferred in mining industry, Cement, and steel industry.
- Suitable for shaft Sizes: 125 mm to 710 mm.



SQUARE FLANGE SERIES

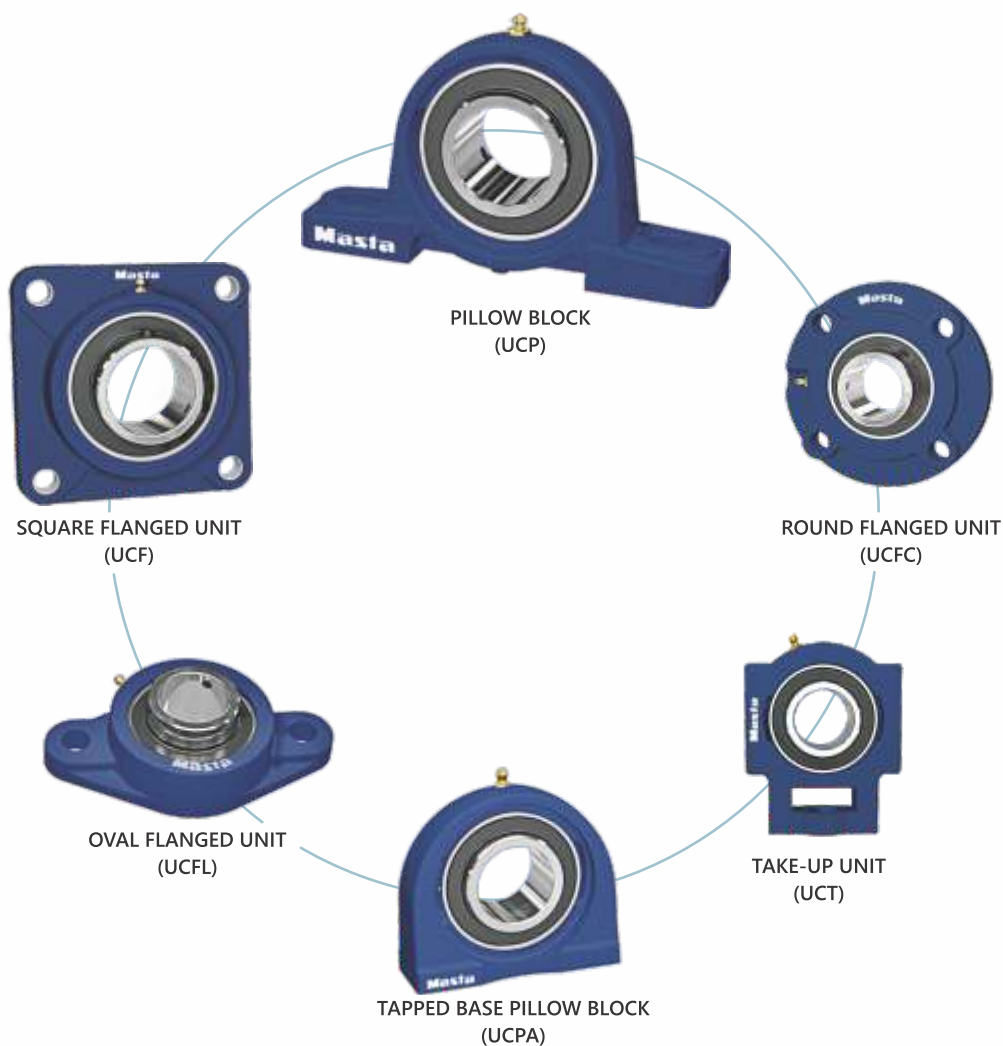


TRIANGULAR FLANGE SERIES



- Triangular and Square flanged bearing housings are suitable for self aligning ball bearings of 1200k, 2200k and spherical roller 22200k bearings with adapter sleeves.
- Closed end housings are designated as A and through shafts are B type.

INTRODUCING the new range of **PILLOW BLOCKS**



► UNIQUE FEATURES OF THE BEARING UNITS

- COMPACT STRUCTURE
- IDEAL SEALING
- CONVENIENT INSTALLATION & DISMANTLING FACILITY
- REASONABLE RANGE OF SELF ALIGNMENT
- ACCOMMODATE MODERATE INITIAL MISALIGNMENT BUT DO NOT PERMIT AXIAL DISPLACEMENT
- EASY TO INTERCHANGE
- READY TO USE/MOUNT UNITS
- POWDER COATED

► APPLICATION

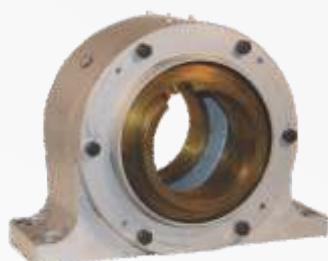
- GENERAL ENGINEERING
- TEXTILE, DYEING
- PLASTIC MACHINES
- AGRICULTURAL IMPLEMENTS
- FOOD STUFF MACHINES
- MINING, ROAD CONSTRUCTION MACHINERIES
- OTHER ALLIED INDUSTRIAL MACHINES



CUSTOMISED PRODUCTS



- Masta provides Bearing Housing solution based on customer's specific requirement. Masta has well experienced design engineers team who develops 3D model to develop the solution.
- Based on customer's sample or drawings Masta develops the bearing housing. That includes imports substitution also.
- Any size, design or any material requirement can be supplied. Customised seal and end covers are also supplied, suitable for grease lubrication, oil lubrication / force feed lubrication.
- Some variety includes:
- Water jacketed housing, water cooled housing, twin bearing housing, cartridge type housing, housing with split taconite seal, housing with screwed end cover.
- Capacity: Bearing Housing from 1 kg to 3200 kg.



ROTOR BLADE

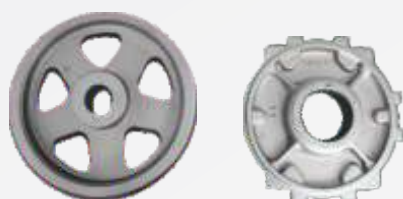
- Masta Products includes Rotor Blades for ID/ FGD Fans which are used in Power Plants. This is an indigenous development of a precision product where blade profile, axis, height, and orientation with mounting etc are very critical.
- Various sizes and design of Rotor Blades are developed.
- Requisite tooling, fixtures and inspection gauges are developed in-house.
- To maintain strict quality norms each blade passes thru various tests, like :- Chemical and Physical property.
- Microstructure, Radiography, Ultrasonic, Magnetic Particle and Die Penetration tests. Blade profile and dimensions are verified by CMM scanner.
- Production Capacity: 100 nos per month with blade weight ranging from 20 kg to 100 kg.



CASTING COMPONENTS



- Masta supplies Casting Components as per customer's drawings or sample products available.
- Castings can be supplied in graded Cast Iron, Cast Steel, Ductile Iron, Manganese Steel, Alloy Steel, and Hi-Chrome as per customer's specs.
- Masta specializes in castings of engineering components like Pumps, Impellers, Valves, and large Pulley blanks, Gear blanks, Textile and General Engineering purpose use.
- The castings are supplied in Pre-machined or Proof Machined condition for ease of customer.
- Any size, any design or any material requirement can be supplied.
- Capacity: Castings weight from 3 kg to 2 M.T.



TYPES OF CASTINGS WHICH CAN BE TAKEN ON THE MACHINE AND ITS INDUSTRIAL SEGMENTS

Industries Segments	Casting Components Required For Moulding
Agricultural Industries & Pump Manufacturers.	Pump Body & Spare Parts
Electric Motor Manufacturers	Electric Motor Body, End Shields, Bearing Covers
Valves Manufacturers	Valves & Actuators
Transmission & Elevator Gear Manufacturers	Pulleys
Transmission Manufacturers	Couplings
Gear Box & Elevator Gear Manufacturers	Gear Casings
Agri. Implement Manufacturers	Agricultural Parts
Dradgers & Earth Moving Excavator Manufacturers	Teeth
Tractor Manufacturers	Tractor & Tillers Parts
Automobile (automotive) Industries	Clutch Plates, Brake Drums, Brake Shoes Etc.



Seal Types

Masta supplies range of seals i.e.
TL, TC, TS, Taconite, LR, V Ring, End cover



TS - Labyrinth seal



TC - Felt seal



TL - Four Lip seal

Taconite Seal



TNF.. Axial Type Taconite Seal
For SD & SNL Large Series



TSN..ND Radial Type Taconite Seal
For SNA, SNH, SNL & SN 30 Series

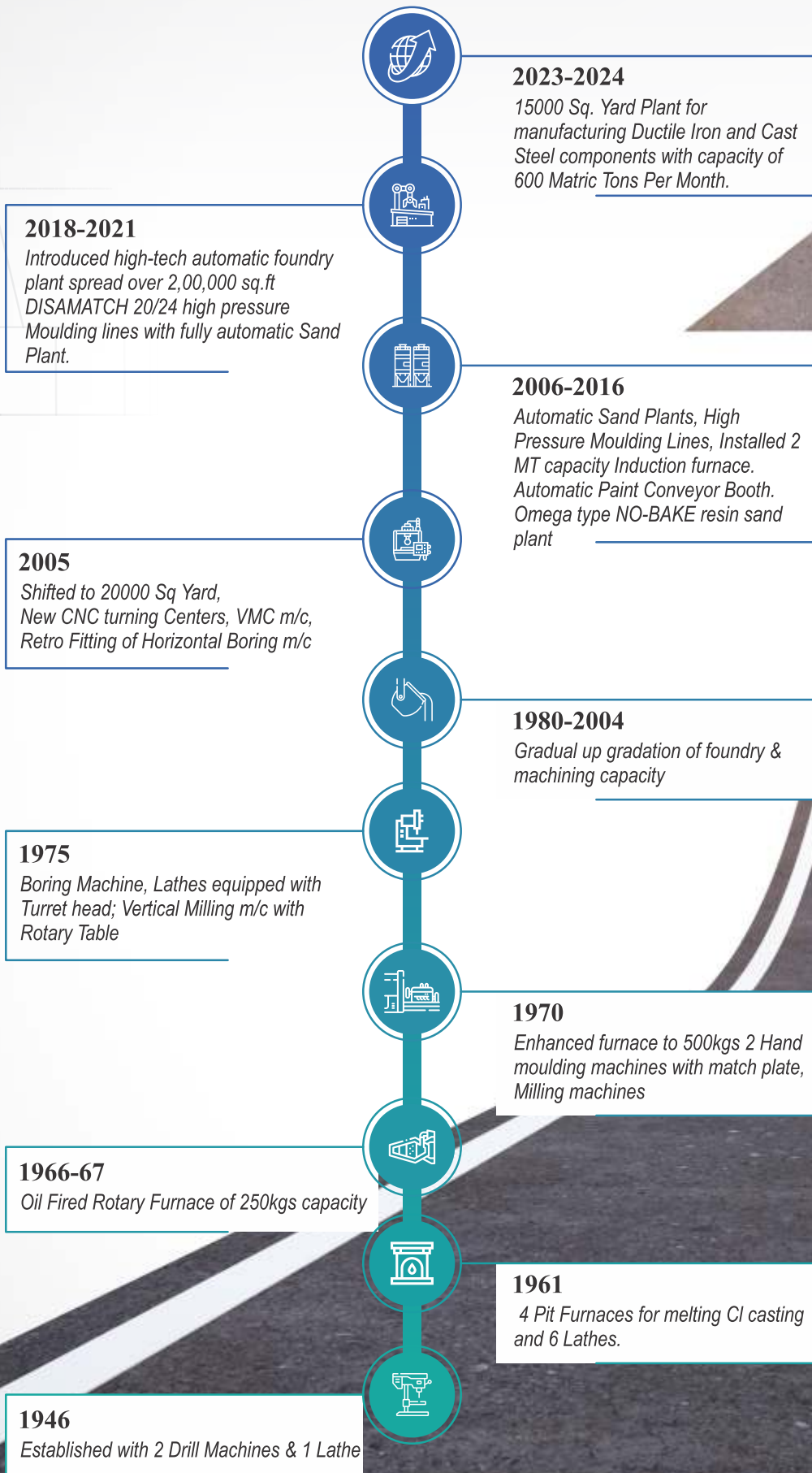
Adapter Sleeves & Withdrawal Sleeves

- Sleeves are manufactured on CNC machine to required accuracy and concentricity.
- Dimension of Sleeves, lock nut and lock washers are in accordance with international standard ISO 113.
- Tolerance grades are strictly maintained to ensure correct fitment of sleeves with bearing.
- Series available are: H, HE, HA, OH, AH, AOH, Locknuts series : KM, HM, Lock washers series MB, MS.
- Hydraulic Adapter Sleeves OH and Withdrawal Sleeves AOH are manufactured with precision for allowing use of hydraulic system.



OUR JOURNEY

Over three generation during last 75 years, Masta is owned by empire of an honest and hard working family, which resulted into constructive year after year..



Valued customers in different industries

Steel Industry



Cement Industry



Power Industry



Fan Industry



EPC & Projects



Export customers



22⁺ Domestic and 6⁺ International Channel Partners.



Our Export Spread Over Countries

Canada
USA
Colombia
Brazil
Australia
New Zealand

Germany
France
Spain
Italy
UK
Turkey

Denmark
Greece
UAE
Oman
Qatar
Iran

Jordan
Uganda
South Africa
Kenya
Zambia
Tanzania

Vietnam
Indonesia
Malaysia
Philippines
Nepal
Bangladesh



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