

Masta
CASTING



**INFINITE
RELIABILITY,
TRUST &
QUALITY**

www.mastagroup.com





Since 1946 MASTA Group had an ambition to become the global supplier and manufacturer in component castings and bearing housings to pursue our goal with seven decades of dedication and consistent technological upgradation, we established MASTA CASTING with the world best fully automatic green sand DISA high pressure moulding line backed with ARPA lines with production capacity of 10,000 M.T. Annually.

Today we are one of the leading producers of Grey Cast Iron, Ductile Iron & Alloy Cast Steel castings.

Having clients across globe with vast product portfolio of bearing housings, valves, gear box, agricultural component, pumps, motor parts and automobile components. Our product range starts from single piece of 10kg to 1.5 M.T.

We also provide value added service by providing finished or fully machined products with our in-house facilities such as CNC machine shop, automatic paint shop, export worthy packing facility etc..

Certifications



ISO 9001: 2015
Quality Management
System



ISO 14001: 2015
Environmental
Management System



ISO 45001 : 2018
Health & Safety
Management System



PED -
Pressure Equipment
Directive



CE Certified

GREEN SAND HIGH PRESSURE MOULDING MACHINE

DISA Sand Mixer is equipped with online sand multi controller unit (SMC) which continually regulates and monitors the process in the sand mixer to maintain and improve sand quality and its properties, within the specified range.

Type	Description	Per Pc. 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



Capacity
120 Mold Box
per hour

Selient Features

- Hi-tech foundry technology from DISA Make system from Denmark
- Jackets and weights are changed automatically
- High mould hardness is maintained
- Minimise shifting within 0.2mm
- Automatic shake out and knock out from the cooling line
- Mass quantity with consistent quality and superb aesthetic finished components





WITH FULLY AUTOMATIC LOOP LINE OMEGA TYPE NO-BAKE RESIN SAND PLANT

Fully automatic sand plant gives uniform molding sand resulting best finish without sand inclusion in the casting.

Dual tract - Furnaces	1 MT X 2 Cruisible
Sand process	No-Bake Alfa Set Resin Sand/ Furan Resin Sand Plant
Mould size	1200 x 1500mm to 1500 x 1800 mm
Casting capacity	50 kgs to 1500 kgs
Production capacity	500 M.T./ Monthly
Sand mixers	12 mt/hour x 2 nos.
Sand Storage Hopper	100 mt/80mt
Auto Loop Line, Roll Over Closing Machine	



PATTERN / DEVELOPMENT TOOLING

With the help of 3D models, Aluminum, Ductile Iron, Wooden patterns and tooling are made on CNC, VMC and Routers.

Simulation software is used for methoding and gating system for critical components to avoid casting defects and making sound castings.

In-House Technical Support

- Development of casting model in solid works software
- Draft check and clearance of pattern, core box & mounting
- 3d cam model drawing in house
- Aluminum CI/SGI master Pattern

CORE MAKING MACHINE



Cold – Core Shooters
Fully Automatic
Horizontal- 15 kgs x 1 nos.
Horizontal- 25 kgs x 3 nos.
Vertical- 25 kgs x 1
6000 to 8000 nos. of core/day
(Resin Sand Mixer with PLC Control)



STATE OF ART TESTING FACILITY

METAL TESTING LAB

Metal Hardness Testing Type
Temperature measuring device

- Blue Star
- Portable Digital Unit
- Optical Pyrometer
AMETECH - GUN

MECHANICAL TESTING

- Radioactive scrap testing equipt.
- Universal Tensile & Elongation testing machine
- Charpy V Notch Impact. Testing machine
- Microscope for Mirco. Structure Testing
- FIE : Make digital BHN (Hardness) Testing Machine

CHEMICAL TESTING

- Chemical Composition on spectrometer with 19 elements.
- All testing equipment are regularly calibrated as per ISO system.

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 Green Sand 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.





Tumblast Shot Blast



Hanger Type Shot Blast

SHOT BLAST MACHINE

- Twin Turn Table Shot Blasting Machine (Table Size 48in)
- Tumblast Shot Blasting Machine (Size 500Kg within 10 minutes)
- Hanger Type Shot Blasting for 500kg
- All above shot blasting machines are fitted with dust collector

MELTING FACILITIES

Power supply unit of 1700KW panel with dual track crucibles of 500 Kgs x 2 Nos Furnaces

FETTLING MACHINES

- Swing Frame Grinding Machines
- Flexible Shaft Grinders
- Pneumatic Grinders
- Table Grinders

MACHINE SHOP

- Covering area is 18000 sqft with setup of 45 machines.
- CNC Turning centres, VMCs, HMC, Horizontal Boring machines, VTL, Radial and Gangdrills, Paint Booth with conveyor system



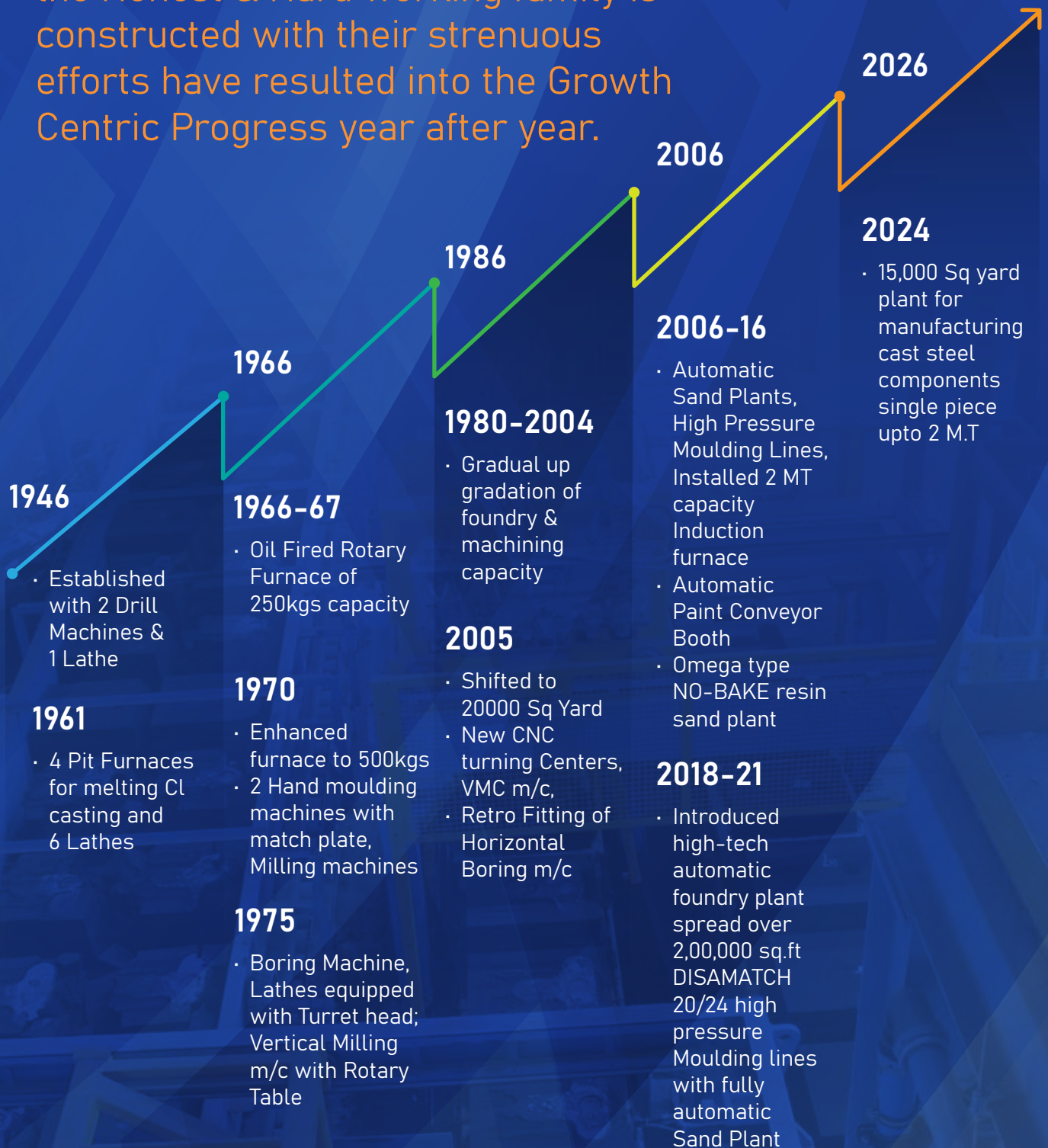
CASTING COMPONENTS

Industries Segments	Products/Parts
Agricultural Industries & Pump Manufacturers	Pump Body & Spare Parts
Electric Motor Manufacturers	Electric Motor Body, End Shields, Bearing Covers
Valves Manufacturers	Actuators, All Types of Valves
Transmission & Elevator Gear Manufacturers	Pulleys, Gear Box
Transmission Manufacturers	Couplings, Topper Lock Pulley, Love Joy
Gear Box & Elevator Gear Manufacturers	Gear Casings, Adaptors, Flange Housing
Agri. Implement Manufacturers	Agricultural Parts, High Chrome Parts
Dradgers & Earth Moving Excavator Manufacturers	Teeth
Tractor Manufacturers	Tractor & Tillers Parts
Automobile (Automotive) Industries	Clutch Plates, Brake Drums, Brake Shoes, Etc.



OUR JOURNEY

Over three generations during last 75 years, The Empire of MASTA is built by the Honest & Hard working family is constructed with their strenuous efforts have resulted into the Growth Centric Progress year after year.



Masta

C A S T I N G

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