SMALLER HEATS, FASTER DELIVERY

Engineered for Efficiency

MAGNA SPECIAL STEELS & MACHINE WORKS

(A DIVISION OF MAGNA CASTING & MACHINE WORKS)

www.mssmw.in

MAGNA SPECIAL STEELS & MACHINE WORKS
(A DIVISION OF MAGNA CASTING & MACHINE WORKS)

Introduction

Magna Special Steels & Machine Works (MSSMW), (A Division of Magna Casting & Machine Works) is essentially an Alloy, Stainless Steel, Super Specialty Ingot Manufacturing Unit, established in the year 1999 at Pune, India. Magna Special Steels & Machine Works (A Division of Magna Casting & Machine Works) belongs to Worldwide Oilfield Machine (WOM) group of companies. WOM established in 1980 and has diversified business in Oil & Gas, Defense and Railway.

The principal objective is to manufacture highest quality Steel in Carbon, Alloy, Stainless Steel, Super Specialty Steel Like : Duplex / Super Duplex, precipitation Harding stainless steels conforming to customer's stringent requirements with emphasis on supreme quality, timely delivery and competitive pricing. Through our innovative technology, we have developed and supplied Steel to vital industries like Oilfield, Petrochemical, Railway, Defense and various other High Tech Industries.

Steel Melting Unit was started for ingot manufacturing in various grades like Alloy, Super speciality steels, Stainless Steel, Precipitation Harding stainless steels, Duplex / Super Duplex steels, with assurance of best material quality. Steel being the main product for the nation and industrial development, we at MSSMW endeavor to manufacture highly clean steel through our advanced melting process developed by industry experts and highly skilled workforce.

Advantages : MSSMW

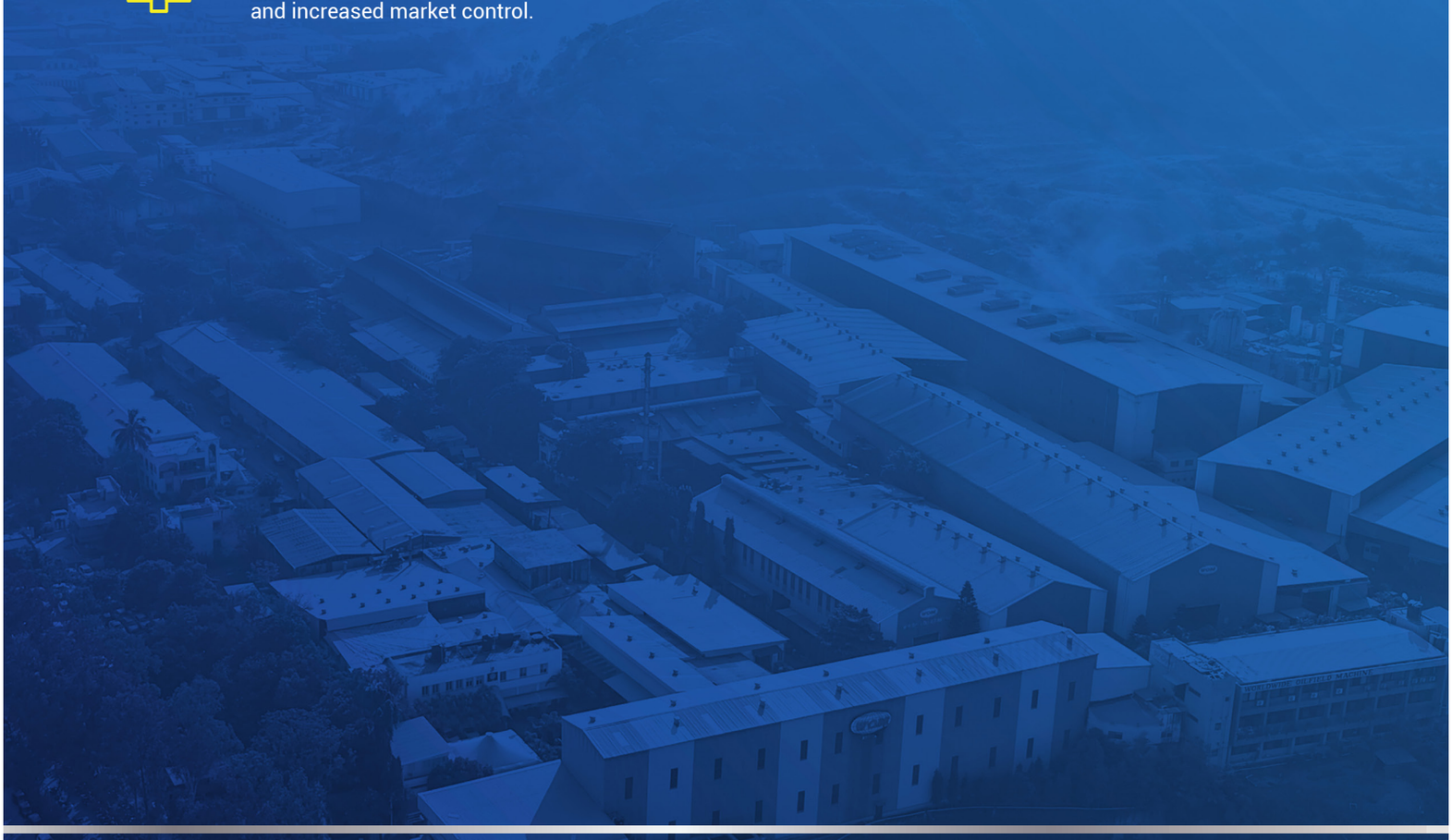
Proven Track Record
The company has over 25 years of experience in supplying the highest quality products to the Oil & Gas industry that operate successfully at upto 25000 psi.

Heat Size
MSSMW's dynamic setup enables production in heat sizes starting from 12 ton to 15 tons, which is quite rare in the industry. This allows the company to also accept customized orders and small-scale requirements.

Quality Guaranteed
Complete control over each process and adherence to strict quality standards, backed by ISO / IEC 17025-2017 accredited in-house laboratory assures supreme quality products that meet and exceed industry standards.

Short Lead Time
Total vertical integration eliminates third-party dependency of the company as well as eliminates delays associated to logistics, ensuring shorter lead time.

All Under One Roof
The company is vertically integrated with an in-house Steel Melting Shop, Casting, Heat Treatment, Forging and Machining, thus resulting in potential for economies of scale and increased market control.



Steel Making

MSSMW operates a highly advanced Steel Melting Unit, involved in manufacturing of specialty grades of Steel with annual capacity of 40000 MT. The range of offering includes High Alloys Steel, Tool steel, Die Steel, Stainless Steel, Precipitation Harding Steel, Duplex and Super Duplex with Stringent quality control mechanism and adherence to international quality standards. Magna Special Steels & Machine Works (A Division Of Magna Casting & Machine Works) is having a full-fledged Metallurgical Laboratory certified as per requirements of ISO/IEC-17025/2017.

We at MSSMW are focused on producing Highly clean steel with the finest steel refining processes at all stages of manufacturing like: Electric Arc Furnace, Ladle refining and Vacuum degassing. Bottom poured Ingot casting is carried out by Teeming car with controlled teeming rate with laser temperature monitoring system of liquid flow into ingot mold also auto recorded on SCADA.

With the above state of the art manufacturing and testing facility MSSMW produces the best quality of steel. MSSMW strives to meet customers stringent requirements through innovative processes of steel melting and refining, bottom, poured ingot casting, hot forging, heat treatment and Proof machining.

Steel Grades, Products Range & Supply Conditions

Alloy Steels - Applications

1. **AISI 4340-ASTM A29**
   Automotive components like axles, gears & shafts, Hydraulic cylinders, aircraft components, metal cutting tools, cold - forming tools, marine application, drill bits for oil wells, mining application, agriculture application.
2. **AISI 8630-ASTM A29**
   Automotive,Gear components, shafts, forgings requiring high tensile. strength, Defense, Oil & gas.
3. **F11-ASTM A182**
   Aerospace, Boiler tubes, pressure vessels, high-temperature applications.
4. **F22-ASTM A182**
   Oil and gas applications, pressure vessels, structural components.
5. **EN24-BS970**
   Automotive components like axles, gears & shafts, Hydraulic cylinders, aircraft components, oil and gas applications.

Tool, Die and Valve Steels - Applications

6. **AISI A2-ASTM A681 (DIN W.Nr. 1.2363 - X100CrMoV5)**
   Dies shapes, slitters, pressure injection tools, cutting tools, stamping.
7. **AISI O1-ASTM A681 (DIN W.Nr. 1.2510 - 95MnWCr5)**
   Additional Customer requirements will be incorporated after discussion with customer.
8. **AISI H11 (DIN W.Nr. 1.2343 - X38CrMoV5-1)**
   Forging Dies, Die Casting Dies, Hot Piercing Punches, Aluminum Extrusion Dies, Forming Punches..
9. **AISI H13 (DIN W.Nr. 1.2344 - X40CrMoV5-1)**
   Forging Dies, Die Casting Dies, Hot Piercing Punches, Aluminum Extrusion Dies. Forming Punches.
10. **L6-ASTM A681 (DIN W.Nr.1.2714 - 55NiCrMoV7) / DB6**
    Forging Dies, Die Casting Dies, Hot Piercing Punches, Aluminum Extrusion Dies, Forming Punches
11. **SAE: HNV-3 (DIN W.Nr. 1.4718 - X45CrSi9-3)**
    Engine valves, coupling, chemical processing, offshore platforms and marine applications

Stainless Steels - Applications

12. **AISI 304L-ASTM A182 / A276**
    Aerospace & automotive Structure, Chemical containers, Food processing equipments, Heat exchangers, Marine components, Fasteners.
13. **AISI 316L-ASTM A182 / A276**
    Marine applications such as Valves, boat fittings, pump trim, Construction, Chemical & Petrochemical in-dustry for containers, dyes, Food processing industry, Paper pulp handling equipments, equipments for textile bleaches.
14. **AISI 310-ASTM A 182 / A276**
    High-temperature parts, furnace construction, medical.
15. **F51 (UNS S31803 Duplex Stainless Steel)-ASTM A182**
    Marine applications such as Valves, boat fittings, pump trim, Construction, Chemical & Petrochemical industry, Oil & Gas, dyes, Food processing industry, Paper pulp handling equipments, equipments for textile bleaches.
16. **F53 (UNS S32750 Super Duplex Stainless Steel) - ASTM A182**
    Marine applications such as Valves, boat fittings, pump trim, Construction, Chemical & Petrochemical in-dustry, Oil & Gas, dyes, Food processing industry, Paper pulp handling equipments, equipments for textile bleaches.
17. **F55 (UNS S32760 Super Duplex Stainless Steel) - ASTM A182**
    Marine applications such as Valves, boat fittings, pump trim, Construction, Chemical & Petrochemical in-dustry, Oil & Gas, dyes, Food processing industry, Paper pulp handling equipments, equipments for textile bleaches etc.
18. **F60 (UNS S32205 Super Duplex Stainless Steel) - ASTM A182**
    Power, paper industries, Petrochemical,chemical processing, marine, Oil and gas.
19. **All 400 Series Grades-ASTM A276 (AISI 410, AISI 416, AISI 420, AISI 430, AISI 431)**
    Structural applications, automotive parts, appliances, cutting tools, plastic moulds and dies, Machine industries,valve industries, Oil exploration industries, Defense, Furnace constructions.
20. **F6NM (UNS S41500)-ASTM A182**
    Offshore oil and gas, chemical processing, contruction, power.

Precipitation Hardenable Stainless Steels - Applications

21. **15-5 PH (UNS - S15500) ASTM A564**
    Aircraft door hinges, Service Drive Housing, Shock mounts, Propellers, Valves, Gears, Shafts, Nuclear Reactor components, Oil & gas industry components.
22. **17-4 PH (UNS - S17400) ASTM A564**
    Jet engines, Turbine blades, Chemical processing equipments & components, reactor parts, Surgical equipmentss, Marine, Petroleum refining equipments.

Products - Sizes

Ingots

1. **Round :** 16" (400 mm), 24" (600mm), 32" (800 mm)
2. **Square :** Up to 4 Faces from 1 ton - 14 tons
3. **Polygonal :** up to 12 Faces from 2 tons - 14 tons

Forged Products

1. **Round :** 8" to 28" (200 to 750mm)
2. **Square :** 8" to 28" (200 to 750mm)
3. **Rectangular :** 8" to 28" (200 to 750mm)
4. **Engineering Components :** 2 tons to 10 tons

Process - Types

Heat treatments

1. **Normalizing**
2. **Annealing**
3. **Spherodized / Globular Annealing**
4. **Quenching and tempering**
5. **Solution Annealing**
6. **Ageing**

Surface finish

1. **Hot Forged**
2. **Hot Forged and turned**
3. **Hot forged and ground**
4. **Hot forged and proof machined**

Round : 8" to 28" (200 to 750 mm)

Square : up to 4 Faces from 1 ton - 14 tons

Products

Hot Forged
Blocks, Rounds, Squares, Rectangle

Hot Rolled Bars
RCS, Round

Engineering Components
Shaft, Rollers, Hollow Parts

Applications

Auto Industry
Pressure Vessels
Oil and Gas
Wind Mills
High Strength Gear
Components Food Proccesing
Marine Engg. Application
Medical and Pharma
Appliances
Nuclear
Defense

Square : 8" to 28" (200 to 750mm)

Polygonal : up to 12 Faces from 2 tons - 14 tons

Quality Assessment through Inclusion Test

Ingot casting process with highest level of cleanliness measured though Inclusion test as per ASTM E45

AISI410 (Stainless Steel) European Mills

Sr. No.	Grade	Melt Route	Initial Size	Inclusion Rating (Thin/Thick)			
				A	B	C	D
1	AISI410	EAL-LF-VD	Tubing Head	0.5/0.0	0.5/0.5	0.0/0.0	0.5/0.0
2	AISI410	EAL-LF-VD	Dia.400	0.5/0.0	0.5/0.5	0.0/0.0	0.5/0.0
3	AISI410	EAL-LF-VD	Dia.665	0.5/0.0	0.5/0.5	0.0/0.0	0.5/0.0
4	AISI410	EF-AOD	Dia.220	1.5/1.0	2.0/1.5	0.0/0.0	1.0/1.0
5	AISI410	EF-AOD	Dia.250	1.5/1.0	1.5/1.0	0.0/0.0	1.0/1.0
6	AISI410	EF-AOD	Dia.220	1.5/1.0	1.5/1.0	0.0/0.0	1.0/1.0

AISI410 (Stainless Steel) MSSMW

Sr. No.	Grade	Melt Route	Initial Size	Inclusion Rating (Thin/Thick)			
				A	B	C	D
1	AISI410	EAF-AOD-LRF-VD	M1 Ingot	0.5/0.0	0.5/0.5	0.5/0.0	1.0/1.0
2	AISI410	EAF-AOD-LRF-VD	M1 Ingot	0.5/0.0	1.0/1.0	0.5/0.0	1.0/0.5
3	AISI410	EAF-AOD-LRF-VD	M1 Ingot	0.5/0.0	0.5/0.5	0.0/0.5	1.0/0.5
4	AISI410	EAF-AOD-LRF-VD	M1 Ingot	0.5/0.0	1.5/0.0	0.5/0.0	1.0/0.5
5	AISI410	EAF-AOD-LRF-VD	M1 Ingot	0.5/0.5	0.0/0.0	0.5/0.0	0.5/0.5
6	AISI410	EAF-AOD-LRF-VD	M2 Ingot	1.0/0.5	0.0/0.0	1.0/0.0	0.5/0.5

17-4 PH (UNS Designation - S17400) & Duplex Stainless Steel European Mills

Sr. No.	Grade	Melt Route	Initial Size	Inclusion Rating (Thin/Thick)			
				A	B	C	D
1	S31803-F51/ S32205-F60 Duplex SS	E+AOD+LRF	DIA 65	1.5/0.5	0.5/0.0	1.5/1.5	1.5/0.5
2		E+AOD+LRF	Dia 70	1.5/0.5	0.5/0.0	1.0/1.5	1.5/0.5
3		E+AOD+LRF	Dia 50	1.5/1.0	0.5/0.0	1.0/1.5	1.5/0.5
4	17-4 PH (UNS- S17400)	EAF+LF+VD	Ingot	0.5/0.5	0.5/0.5	0.5/0.0	0.5/0.0

17-4 PH (UNS Designation - S17400) & Duplex Stainless Steel MSSMW

Sr. No.	Grade	Melt Route	Initial Size	Inclusion Rating (Thin/Thick)			
				A	B	C	D
1	17-4 PH (UNS-S17400)	EAF-AOD-LRF-VD	M1 Ingot	1.0/0.5	0.5/0.0	1.0/1.5	1.5/0.5
2	S31803-F51	EAF-AOD	M1 Ingot	1.5/0.5	0.5/0.0	1.0/1.5	1.5/0.5

1.2714 (Die Steel) European Mills

Sr. No.	Grade	Melt Route	Inclusion Rating (Thin/Thick)			
			A	B	C	D
1	1.2714	EAF-VD	2.0/1.5	0.5/0.0	0.0/0.0	1.0/1.0
2	1.2714	EAF-VD	2.0/1.5	1.5/1.0	0.0/0.0	1.0/1.0
3	1.2714	EAF-VD	2.0/1.5	0.5/0.0	0.0/0.0	1.0/0.5
4	1.2714	EAF-VD	2.0/1.5	1.0/0.5	0.0/0.0	1.0/1.0
5	1.2714	EAF-LF-VD	1.0/0.0	1.0/0.0	0.0/0.0	1.0/0.5
6	1.2714	EAF-LF-VD	1.0/0.5	1.0/0.0	0.0/0.0	1.0/0.5
7	1.2714	EAF-LF-VD	1.0/1.5	0.0/0.0	1.5/3.0	1.0/1.0

1.2714 (Die Steel) MSSMW

Sr. No.	Grade	Melt Route	Inclusion Rating (Thin/Thick)			
			A	B	C	D
1	1.2714	EAF-LRF-VD	0.0/0.0	0.0/0.0	0.5/0.5	0.5/0.5
2	1.2714	EAF-LRF-VD	0.0/0.0	0.0/0.0	1.0/0.5	0.5/0.5
3	1.2714	EAF-LRF-VD	0.5/0.0	0.0/0.0.0	0.5/0.0	1.5/1.0
4	1.2714	EAF-LRF-VD	0.5/0.0	0.0/0.0	0.5/0.0	0.5/0.5
5	1.2714	EAF-LRF-VD	0.5/0.0	0.5/0.5	1.0/0.5	1.0/0.5
6	1.2714	EAF-LRF-VD	0.0/0.0	0.5/0.0	0.5/0.5	0.5/0.5
7	1.2714	EAF-LRF-VD	0.0/0.0	0.0/0.5	1.0/1.0	1.0/0.5

Equipment and Capabilities

EAF Scrap Melting Machine

To give you a clear view of our production capabilities, here's a list of key equipment in our SMS:

Electric Arc Furnace 15 MT

EAF is equipped with controlled carbon injection for foamy slag practice and oxygen lancing facilities for quick melting along with oxygen measuring system (CELOX), water cooled panels for increasing refractory life and complete automation for melt control and entire Online data capturing in SCADA.

It is also equipped with slide gate system for tapping.

Ladle Refining unit 15 MT

This is to ensure precise control on the chemical composition of the steel grades being manufactured, continuous purging of Argon from bottom through porous plug for temperature and chemical homogeneity of liquid steel, maintaining accurate liquid metal temperatures in the ladles to have control on the super heat for processing steel in the next working station - It is also equipped with cored wire feeding system and entire Online data capturing in SCADA..

LRF Melting Area

AOD Area

Argon Oxygen Decarburization Unit 15 MT

It is used for manufacturing all types of Stainless steel Including ultra low carbon grades. This enables us to use high carbon Ferro alloys to manufacture very low carbon stainless steel varieties. In AOD we are using the auto gas mixing station for mixing and choosing Oxygen, Nitrogen and Argon gases to the required ratio and in final stage only Argon is blown through bottom tuyeres for refining of liquid steel. Reduction process in AOD helps to reduce sulphur and controlled inclusion in stainless steel and entire Online data capturing in SCADA.

Vacuum Degassing 15 MT

Vacuum Degassing 15 MT

All Our 100% Carbon, Alloy, 400 series stainless steel heats routed through Vacuum Degassing System based on mechanical pumps to create vacuum of less than 1 M bar (usually we go to less than 0.6 M bar vacuum), with continuous Argon purging from bottom for temperature and chemical homogeneity, floatation of the inclusions into slag and to remove dissolved gases like hydrogen, oxygen and nitrogen. It is also equipped for CaSi, Aluminum and Sulphur wire injection system for good deoxidizing and modification of the morphology of inclusion and entire Online data capturing in SCADA.

Teeming Car

Teeming Car for Ingot Casting

Refined Liquid steel finally comes to the ingot casting area, which is facilitated with our own designed and manufactured ingot teeming car to carry 15 MT liquid metal to cast bottom poured ingots ranging from 1MT to 14 MT. Ingot Teeming car is equipped with continuous monitoring of liquid metal weight, teeming rate (Discharge rate of liquid metal) with laser temprature monitoring system of liquid flow into ingot mold, Argon Shrouding to control Re-oxidation of liquid steel, liquid stream temperature monitoring system. Entire bottom pouring system is closed casting, so that no liquid metal comes in contact with atmospheric air. After stripping ingots are hot transfered for forging or annealing. We have also the facility of controlled cooling of ingots in the slow cooling pit.

Quality Assurance & Control

Quality is measured and controlled at all stages at MSSMW. Raw materials including scrap, ferroalloys, refractories, and all incoming materials and checked and then only accepted and issued for production. Steel samples are checked at all stages of melting refining and casting.

LECO Gas Analyzer for - O2, N2, H2

State of the art facilities and latest available equipment's have been selected and employed in the quality assurance lab and team of process control monitors the same round the clock.

ARL vacuum emission Spectrometer iSpark 8860 model : Can analyze 30 elements in 60 seconds and analytical results are transmitted on the screen in the shop floor and also on the SCADA/ shop floor PC in the control rooms. LECO CS 744 carbon- Sulphur analyzer : Ensures precise analysis of low carbon levels (less than 0.02% carbon) and high Sulphur (>0.20%5).

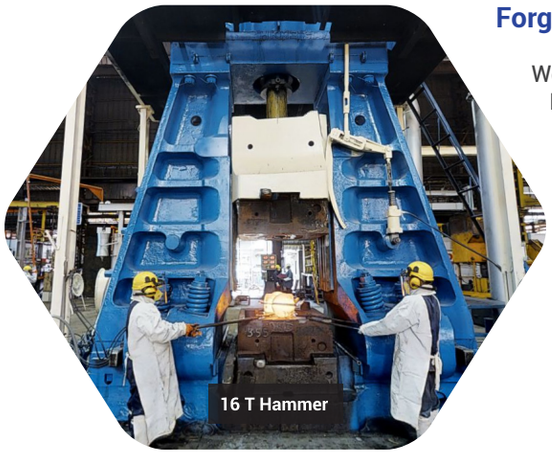
LECO ONH Mode : For Oxygen Nitrogen and Hydrogen Gas analysis: Analyses dissolved and total oxygen, Hydrogen and Nitrogen in the steel samples during refining so as to ensure good gas level control in the steel.

WD XRF model ARL PERFORMX : This facilitates to analyze raw materials like ferroalloys, refractories and alike used for steel making unit as well as slag samples drawn at various stages, like EAF, LRF, VD and AOD to have better control on quality of steel being produced as per SOPs

Mechanical Testing Facility

MSSMW Lab is well equipped with Mechanical Testing facility such as : Tensile testing, Impact Testing (At room Temperature and Sub Zero Testing Facility up to -195 Deg F), Hardness Testing and required machining facility for sample preparation. These are equipped with Software for Data storage and compilation of Graphs during testing. Macro etching, Grain flow, in the forged samples are conducted for continues improvement. Metallography laboratory has sample preparation facility, Inverted Microscope, with photographic attachment and Soft ware for measurement of inclusion (Cleanliness level) and grain size and Stereo Microscope. All These facility enables us to monitor quality on regular basis for ensuring delivery of excellent products to the end users. These facilities are supported by conventional wet analysis for cross checking and specific results.


Mechanical Lab


16 T Hammer

Forge Shop

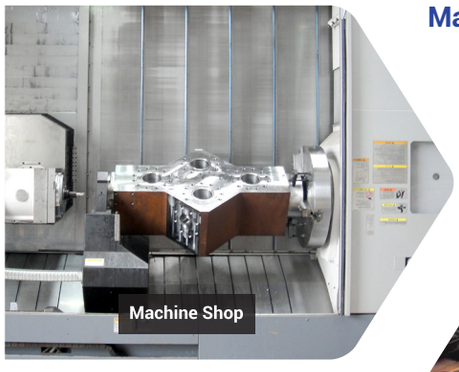
We have a state of art Forging Facility which has a installed capacity of 40,000 MT/PA with capacity ranging from a few Kgs to 14 MT single piece open die forging. We forge close die intricate forgings up to 7 MT single piece. The plant is ISO 9001-2015 and PED -2014/68/EU certified.

Our skilled, trained and devoted craftsmen in the shop can handle complicated forgings in a variety of shapes in the closed die and open die forging. Round up to 1000 mm dia and squares up to 900mm square in pre forging and then in the required shapes is a routine now. Reheating furnaces, with temperature controls with SCADA system, rail bound Mobile forging manipulators, enable us to deliver difficult jobs in time.

Heat Treatment Facility

Heat treatment shop:Our advanced heat treatment facility includes 15 furnaces (electric, gas-fired, and oil-fired) capable of hardening, tempering, annealing, stress relieving, and controlled slow cooling. Cooling systems feature water and polymer quenching baths with mechanical agitation and capacities ranging from 10 KL to 100 KL, ensuring uniform cooling. Temperature precision is achieved with contact and dual thermocouples, infrared sensors, and SCADA-based monitoring, providing real-time graphs for accurate process control.


Heat Treatment Facility


Machine Shop

Machine Shop

We can handle variety of jobs for precise dimension control on surface and intricate jobs. We have number of HBM, lathes, drilling machines, milling machines, 5 Axis Machines and lots of SPM machines for finish machining of variety of valves and parts required for our own Oil Field Machine requirements. We also have dedicated CNC shop with nearly 150 CNC machines. With the advantage of this infrastructure and capability, we have started manufacturing variety of Alloy, Stainless and Tool Steels for captive use as well as for Outside Market.

2500 Ton Press

2500 Ton Press

We have under installation a 25 MN push-down press and a 20-ton rail-bound manipulator made by DANIELI BREDA.

The press and manipulator are fully automatic and can perform operations with programming (SCADA SYSTEM).

Certification

DNV

MANAGEMENT SYSTEM CERTIFICATE

Site certificate No.:
C709425-CC1

Valid:
19 October 2024 – 18 October 2027

Belongs to main certificate number:
C709425

This is to certify that the centrally implemented management system for

Magna Casting & Machine Works Pvt. Ltd.
Gat No. 777(P), 775(P), 774, At & Post Velu, Taluka Bhor, Pune - 412205, Maharashtra, India

has been found to conform to the Quality Management System standard:
ISO 9001:2015

This certificate is valid for the following site scope:
Manufacture and Supply of Castings (Cast, Heat Treated & Machined Condition), Ingots and Rolled / Forged Bars, in Various Material Grades

Place and date:
Barendrecht, 19 September 2024

For the issuing office:
DNV - Business Assurance
Zwolseweg 1, 2994 LB Barendrecht, Netherlands

MSAR SYS. RvA C 004 IAF

Erie Koek
Management Representative

It is the management system of the whole organisation which is certified. The validity of this certificate depends on the validity of the main certificate.
Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.
ACCREDITED UNIT: DNV Business Assurance B.V., Zwolseweg 1, 2994 LB, Barendrecht, Netherlands - TEL: +31(0)102922689. www.dnv.com/assurance

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National Accreditation Board for Testing and Calibration Laboratories

NABL

CERTIFICATE OF ACCREDITATION

MAGNA CASTING AND MACHINE WORKS PVT. LTD.- METALLURGICAL LAB

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

GAT NO. 777, AT POST; VELU, TAL. BHOR, PUNE, MAHARASHTRA, INDIA

in the field of

TESTING

Certificate Number: TC-5598

Issue Date: 26/06/2024 **Valid Until:** 25/06/2026

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: MAGNA CASTING AND MACHINE WORKS PRIVATE LIMITED

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

DNV

MATERIAL MANUFACTURE CERTIFICATE

Certificate No.:
C717303

Initial date:
14 November, 2024

Validity:
14 November, 2024 to 13 November, 2027

This certificate consists of 2 pages

This is to verify that:

Magna Casting & Machine Works Private Limited
Gat No. 777(P), 775(P), 774, At & Post Velu, Taluka Bhor, Pune - 412205, Maharashtra, India

for

Castings

has implemented and is maintaining a certified quality assurance system which has undergone a specific assessment for materials for applications covered by Directive 2014/68/EU on pressure equipment, and is found to comply with Annex I, section 4.3, for acceptance of type 3.1 material certificates according to EN 10204:2004

Further details are given in the following pages

Place and date:
Vimercate, 14 November, 2024

Check Validity

For the issuing office:
DNV Business Assurance Italy S.r.l.

Maurizio Bellina
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid. DMSP-5-PA-PED-05-A15 rev.0

Issuing Office: DNV Business Assurance Italy S.r.l. Via Energy Park, 14, 20871 Vimercate (MB), Italy. Tel: 039 68 99 905., www.dnv.com

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DNV

Certificate No.: C717303
Place and date: Vimercate 14 November, 2024
Revision No.: 00

Certificate history:

Revision	Description	Issued date
00	Original certificate	14-11-2024

Products covered by this Certificate:

Product Name	Materials
Manufacture and Supply of Castings (Cast, Heat Treated & Machined Condition) & Ingots in various material types / grades for valves, tees, flanges, cross-overs, hubs, choke-bodies and actuator-cylinders.	Carbon-Manganese steels, Low and High alloy steels, Stainless steels (Austenitic stainless steels, Martensitic stainless steels, Ferritic stainless steels, Duplex stainless steels) and Nickel based alloys.

Limitations: Up to 1700 Kg single piece cast weight

Initial audit on the production site has been carried out by DNV Business Assurance India Pvt. Ltd., Pune, ref. Assessment Report dated 2024-09-03.

Terms and conditions for the certificate:

- In case of damages caused by defective products, Council Directive 85/374/EC, as amended, will apply
- The system approval is valid only for the material types listed above. For other material types, an application for extension of the certificate must be sent to DNV Business Assurance India Pvt. Ltd., Pune
- Periodical audits and unexpected visits will be held, in order to verify that the manufacturer duly fulfils the obligations arising out of the approved quality system;
- The manufacturer shall fulfil the obligations arising out of the quality system as approved and uphold it so that it remains adequate and efficient;
- The manufacturer must give information of any intended adjustments of the Quality System to DNV Business Assurance India Pvt. Ltd., Pune who will assess the changes and decide if the Statement remains valid;
- The manufacturer shall inform DNV Business Assurance India Pvt. Ltd., Pune of the intended schedule of production for materials.

The following may render this certificate invalid:

- Changes in the quality system affecting production;
- Periodical audits not held within the allowed time window.

END OF CERTIFICATE

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid. DMSP-5-PA-PED-05-A15 rev.0

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