



SUEERAA ALLOYS GLOBAL PVT LTD

GREETINGS!





SUEERA Group @ a Glance



STEEL FOUNDRY

- High Morale and Diversified Group into various Business Segments for more than 3 Decades.

- Employee Strength of more than 750 people

- Organic Group Turnover of more than 30 million Euros



International School



ENGINEERING COLLEGE



TMT Bars



Textiles



- An engineering institution started in 2008
- Built up area 30,000 sq.m.
- 6 Bachelor's Program and 6 Master's Program
- About 1500 students are studying & about 150 teaching faculty are employed



FOUNDRY DIVISION



- “One stop sourcing point for all your needs”
- High quality Steel Casting(NO BAKE AUTO LOOP PROCESS)
- High quality Aluminum Castings (Foam and GDC Process)
- Foam Casting/Investment casting
- Machining, & Testing
- Ware house facility – Italy & Rotterdam

AUTOLOOP MOULDING LINE- NO BAKE RESIN BONDED PROCESS





STEEL AND ALLOY(SAND PROCESS)

STEEL CASTINGS:

Our Steel Casting foundry have maintained a state-of-the-art Foundry including ,

- In-house pattern shop,
- Modern machine shop and Testing ,
- In-house facility backed by Generator,

PROCESS :

MOULDING - Sodium Silicate / CO₂ & No-bake

CORE MAKING - Sodium Silicate / CO₂

Shell Process

No-Bake resin bonded

MONTHLY CAPACITY :

400TONS/Month MAX. CASTING WEIGHT RANGE : 3000KGS = 6615LBS

PRODUCTS

PRODUCT GALLERY

- **STEEL AND ALLOY CASTINGS**

SUEERAA can cast single piece weight

- 3.2 tons





PRODUCTS



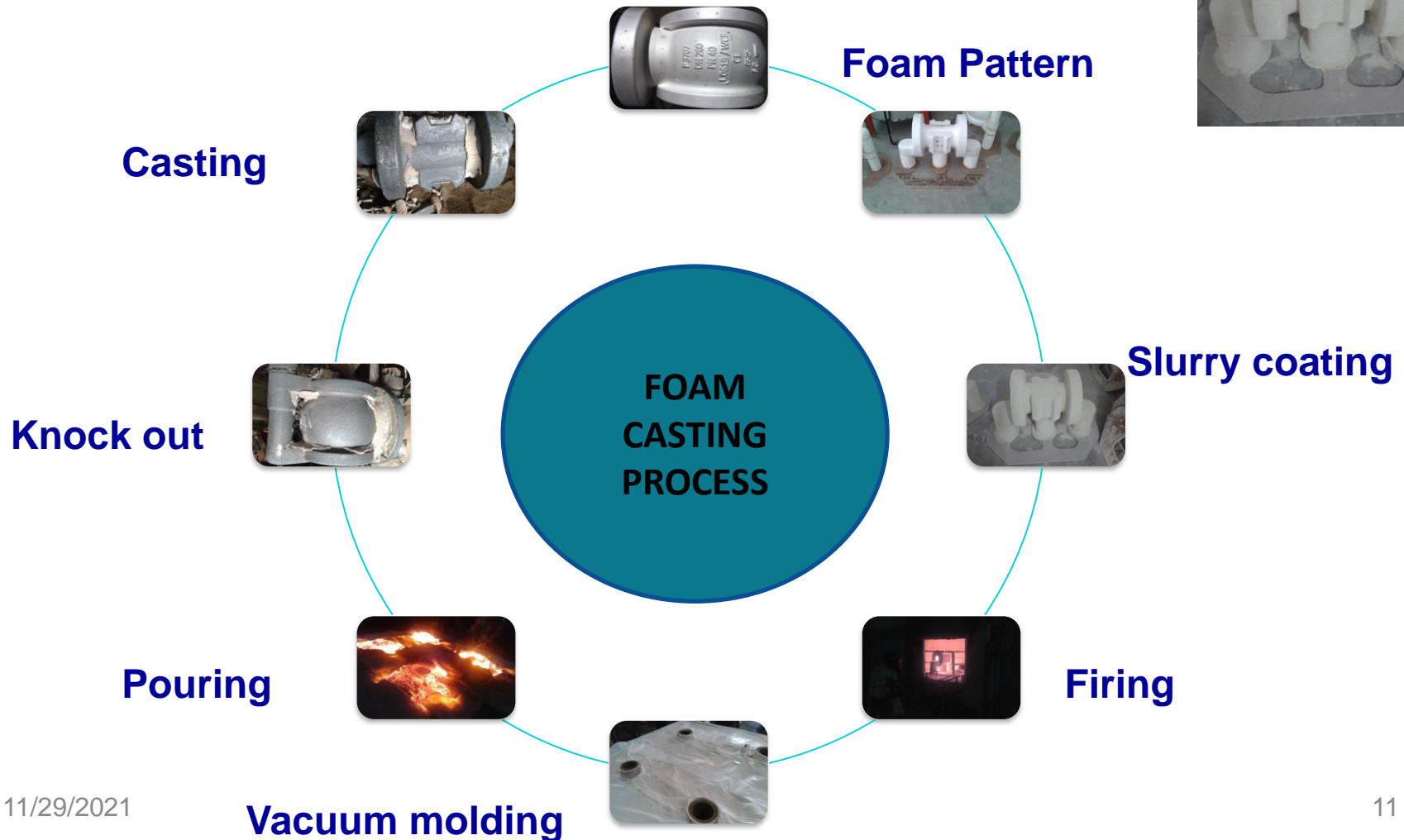


FOUNDRY PROCESS & CAPACITY - FOAM CASTING

MONTHLY CAPACITY :

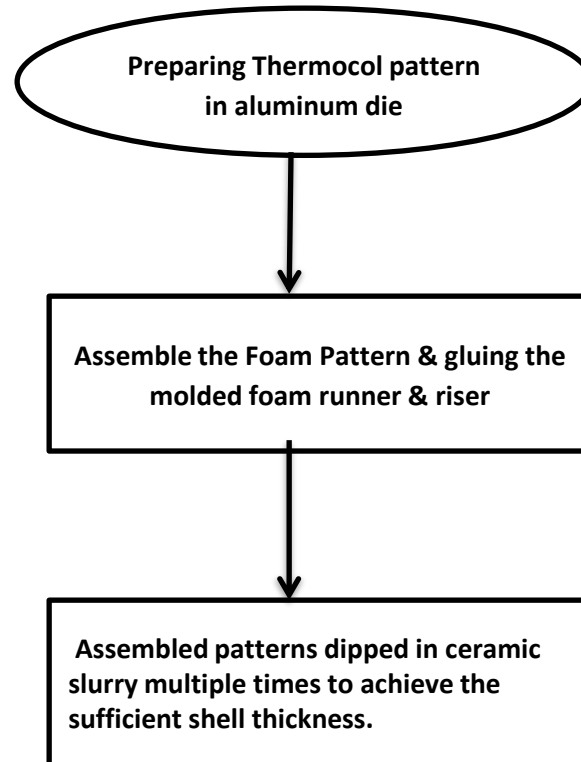
Installed Capacity : **100 tons/month**

Size Range : We can produce components weighing from **25KGS TO 650kg**



Introduction

- Expanded Polystyrene Styrofoam casting process. The Expanded Polystyrene Styrofoam(EPS) process is similar to investment casting except foam is used for the pattern instead of wax.
- **The pattern is made from polystyrene foam.**



ADVANTAGES – FOAM CASTING PROCESS

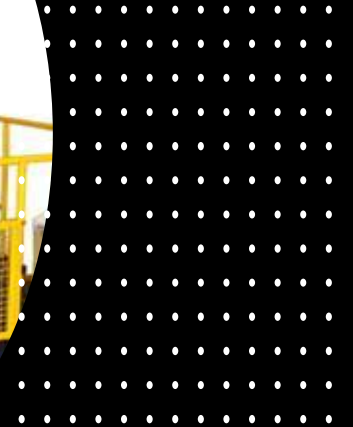
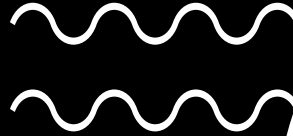
- **Foam casting process can be used for precision castings of ferrous and non-ferrous metals of any size.**
- **Fewer steps are involved in foam cast - lost foam casting process as compared to sand casting.**
- **Core making is eliminated.**
- **Binders or other additives and related mixing processes are eliminated.**
- **High dimensional accuracy can be achieved and thin sections can be cast (i.e. 3 mm).**
- **Since no sand is used. Sand inclusion is completely avoided and 40 % of the defect is eliminated. Reduce the upgrading cost and lowers work-in process. This facilitate on time delivery and achieve the Surface finish nearest to the investment casting.**
- **Multiple castings can be combined in one mold to increase pouring efficiency.**
- **Consistent casting quality & reduced lead time for finished product.**
- **Fettling and machining is minimized due to high dimensional accuracy and the absence of core fins.**

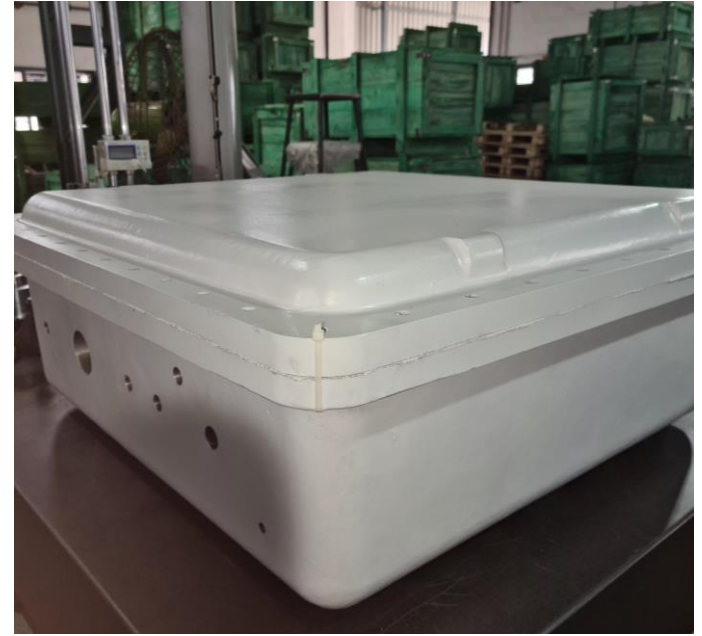
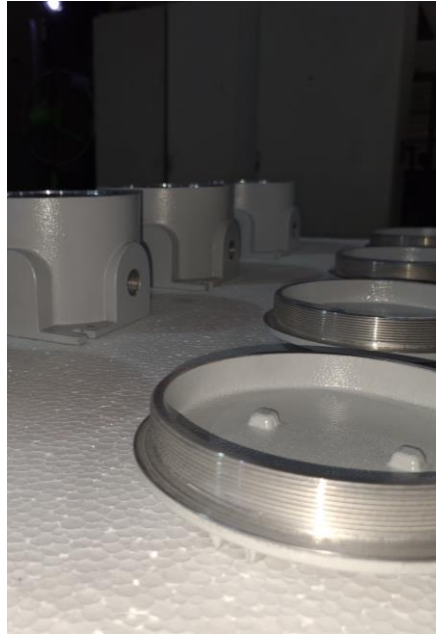


ALUMINIUM FOUNDRY : GDC, FOAM/SAND PROCESS

ALUMINIUM CASTINGS:

- In-house Tool room facility for Die Making
- Tilt Gravity Machine for consistency casting quality
- Gravity machine (hydraulic die stand structure)for Achieve mass production
- International alloy grades (ISO, ASTM, EN AC, UNI, JAPAN....ETC)
- Mass melting Furnace (500 KG) , Holding Furnace (150 KG & 250 KG)
- Spectra lab
- Quality Team for Ensure Right Quality Out put , On Time Delivery
- Modern machine shop for supply fully finished products





ALUMINIUM GDC , SAND &
FOAM CASTINGS :
EXPLOSIVE PROOF
ENCLOSURES

ALUMINIUM FOUNDRY CAPACITY – GDC & FOAM /SAND CASTINGS)



- CASTING RANGE :
- SINGLE PIECE CASTING WEIGHT : 0.50 KGS TO 10 KGS IN GDC
- SINGLE PIECE CASTING WEIGHT : 25KGS TO 250 KGS IN FOAM /SAND PROCESS

CORE MAKING PROCESS :

- COLD BOX CORE ; CO2 PROCESS - IN HOUSE
- COLD BOX CORE; AMINE PROCESS - OUT SOURCE
- HOT BOX CORE ; SHELL CORE PROCESS - OUT SOURCE

Investment Casting



- Process Capability

- Castings in a weight range of 50 grams to 50 Kgs
- Thin walled castings..... as low as 2 mm
- A wide range of batch quantities, i.e. less than 50 pcs. in case of large castings or over a million pieces a year for automotive and other applications
- Near-net shape castings, eliminating or substantially reducing the need for expensive machining operations
- Close dimensional tolerances
- Very good surface finish
- Casting soundness meeting requirements of Rail, Nuclear, Medical, Defense , Valve and other many industry standards



Facilities- Investment casting

- 3D Printing Technology
- Tool Room
- Wax Shop
- Shelling
- Melting
- Dewaxing
- Fettling
- Heat treatment
- Sand blasting
- Machining



Products – Investment casting





HEAT TREATMENT, FETTLING, ACID PICKLING & PASSIVATION

The Foundry unit have Heat treatment, Fettling, Acid pickling and passivation facility.

The Heat treatment facilities include Oil fired, Electrical & Muffle Electrical Furnaces with water quenching tanks.

The unit have full fledged in-house Fettling shop with Arc cutting , Gas cutting ,grinding & dressing facility – Shot blaster to do finishing operations.

We also have qualified & approved Sub-contractors for Fettling process.

TESTING FACILITIES



In-house Chemical and Mechanical Testing facilities as follows,

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- Sand Test,
- Wet analysis,
- PMI,
- SPECTRO analysis, (Ferrous & Non – Ferrous)
- Hardness Test,
- Tensile,
- Impact,
- Micro Structure analysis,
- MPT,DPT, and UT
- Radiographic testing using (Ir 192 & Co 60)



Specification Range

Exotic Steels	ASTM A 494 A Gr. CZ100 , M35-1, N12MV, N7M, CY40, CW12MW, CW6M. CW6MC, CX2MW, CU5MCuC, CX2M
Duplex Steel and Super Duplex	ASTM A 995 Gr. 4A, 5A, 6A, 1B,
Stainless Steel	ASTM A 351 Gr. CF8M, CF3M, CF8, CF3, CG8M, CG3M, CF8C, CK3MCuN, CN7M, CD4MCu, CD4MCuN, CD3MWCuN
Carbon Steel	ASTM A 216 Gr. WCC, WCB
Low Temperature Steel	ASTM A 352 Gr. LCC, LCB
Low Alloy Steel	ASTM A 217 Gr. WC6, WC9, CA15, C12, C12A, C5, A 487 CA6NM
PH Duplex Steel	ASTM 747 – CB7Cu-1 (17-4PH)

Non Ferrous Grades :

Aluminum – Sand & GDC : International alloy grades (ISO, ASTM, EN AC, UNI, JAPAN....ETC)



MACHINE SHOP

- SAGPL has fully equipped in-house machine shop, Assembly & Testing facility with all the necessary machineries such as ,
 - CNC machines,
 - Conventional Lathes,
 - Drilling Machines,
 - Hydro Testing Machines,
 - MAXIMUM PRESSURE = $648 \text{ Kg/CM}^2 = 9300 \text{ PSI}$
 - NO RESTRICTION ON THE SIZE OF THE CASTING.
 - Ultra Modern Inspection & Testing facilities
 - -that ensure the valve casting is completed with the high quality & custom precision.
 - Painting booth



Certifications

Our Quality Management System is certified to number of National and International standard quality certificates and license are as follows:

ISO 9001-2015

PED 2014/68/EU

AD 2000 – MERKBLATT W0

DIN EN ISO 3834-2 QUALITY REQUIREMENTS FOR WELDING
2014/68/EU ANNEX,1 QMS FOR WELDING CERTIFICATION
INDIAN BOILER REGULATION 1950

We are also certified by,

LLYOD'S

BV

DNV

ABS

NORSOK

API 20A – System Compliance

NABL APPROVED : OUR CHEMICAL & MECHANICAL LAB

These certifications ensure a high level of accountability, quality control, as well as constant upgrading of our systems.





SAGPL – PLEDGE

- **The Safety of People.**
- **The Protection of the Environment.**
- **The Assurance of Speed and the Control of your cost.**
- **The Quality of our Service.**
- **The Success of your Project.**



Thank You
TEAM SUEERAA
www.sueeraaglobal.com