



**EnGenius**  
Metals Pvt. Ltd.



4 Station Susha Make Shell Moulding Machine with Fuser



*Enabling engineering excellence since last two decades we have now stepped into a new venture, with the establishment of EnGenius Metals Pvt. Ltd. At EnGenius we intend to provide a new dimension in casting technology and serve the manufacturing industry with our precision quality castings to provide casting and machining related solutions. We boast our expertise in shell moulding with state of the art facilities and manufacturing set up to cater ever changing industry needs.*



▲ Manual Core Making Machines Line

### Moulding & Core Section

We exclusively perform in house shell moulding and core making to meet better quality and consistency in production. Our moulding and Core making shop includes following facilities :

- Susha make 600x600 fully automatic four station shell moulding machines with auto shell fuser.



Core Oven



Automatic Shell Moulding Machines

- Automatic shell core shooting line. (sizes: 300x450 & 450 x 600)
- Manual core making facility.
- Core baking oven.

With above mentioned setup, we have skills and expertise to maintain better quality of cores. This in house facility aids us to achieve minimum manufacturing lead times and meet production schedules and dead lines.



Core Inspection & Assembly



### MELTING SECTION

Facilities In Melting Section :

- Medium frequency inductotherm make 250 KW, 300 kg furnace.
- 2 ton overhead crane for SG treatment and material handling.
- Overhead monorail pouring system
- Automated ladle pre-heater.
- Online , real time spectro display on furnace platform ( with OK / NOT OK signal)
- LCD display of CE meter with metal solidification curve on furnace platform ( with OK / NOT OK signal )
- Pouring timer display with inbuilt alarm.
- 200 Kg SG treatment Laddles, 150kg pouring laddles with crane scale and remote display.





▲ Scrap Storage Area



▲ Furnace Platform



▲ Plant View



▲ Innoculation



▲ S. G. Treatment



### SHOT BLASTING AND FETTLING SECTION

The casting surface treatment to enhance finish and removing extra material includes shot blasting and fettling activities with following facilities:

- SSEC make 300 kg hanger type shot blasting machine.
- Mecshot make internal shot blasting machine.(especially for hydraulic industry)
- Various types of grinders like Pedestal grinder, Pencil grinder, cutter grinder etc.





▲ Sand Testing Lab

▲ Image Analyser



### LABORATORY

We believe in quality and consistency, supported by a modern inspection and testing laboratory. This facility includes :

- Shimadzu Japan make PMT base spectrometer .
- Metal soft make microscope with image analyser.
- BHN optical hardness tester .
- All types of sand testing facilities like hot tensile strength , gas evaluation , sieve analysis, peel back test .



▲ Spectro Meter

### TOOLING AND SIMULATION

With selected partners we offer a pattern manufacturing facility with CNC & VMC machining and latest software supports (CAD/3D Modelling) as well as the facility to run simulation and analysis with the latest softwares.

*At EnGenius Metals Pvt. Ltd.  
Our experience ensures that  
your work is done as per your  
exact specifications and requirements  
of quality, quantity and time. Business  
with EnGenius Metals Pvt. Ltd. Means  
a high degree Of reliability for your final  
Products as well as a Quality that's truly  
in a class of its own. Quality, afterall, is  
not to be tried; it is to be trusted.  
Hoping to shake Hands  
With you soon.*

### MACHINING FACILITY

Advance state-of-art machining facility meeting stringent international norms for all kinds of manufacturing activities from the most basic to the most advanced is available through our group companies.

### FOUNDRY SPECIFICATION

- Production Area 10,000 sq.ft.
- Production Capacity 2500MT/Year
- Casting Weight 0.10 kg to 15kg
- Type of Moulding Shell Moulding
- Type of Cores Shell, Cold Box
- Sand System Shell Sand
- Material Grade All types of Gray Cast Iron & all types of Nodular Iron, Compacted Iron & ADI.

### Factory :

Plot No. A-82/13, Kagal - Hatkanangale  
Five - Star Industrial Area, Kolhapur.  
Dist. Kolhapur -416236.(M.S.) INDIA  
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