



*Welcome to
Vishal Foundry
Rajkot (India)*

A Group Company of Vishal Manufacturer Pvt. Ltd. Rajkot





VF VLFC Introduction

Vishal Foundry (VF VLFC) is a group company of Vishal Manufacturer Pvt. Ltd. (VMPL).

It is a Vacuum Lost Foam process-based casting manufacturing plant, having installed capacity of 2000 MT per month to produce Grey & Ductile Iron castings.

The plant equipment, machinery & tooling have been imported from CHINA having intensive process integration to avoid any future process or product repercussions in routine production.

The plant is under Project Stage and will be commissioned in production from 2026.



Brief About Vacuum Lost Foam Casting Process

It is one of the latest casting processes rarely used in India but quite widely used in abroad countries like China, Korea, USA, Russia etc.

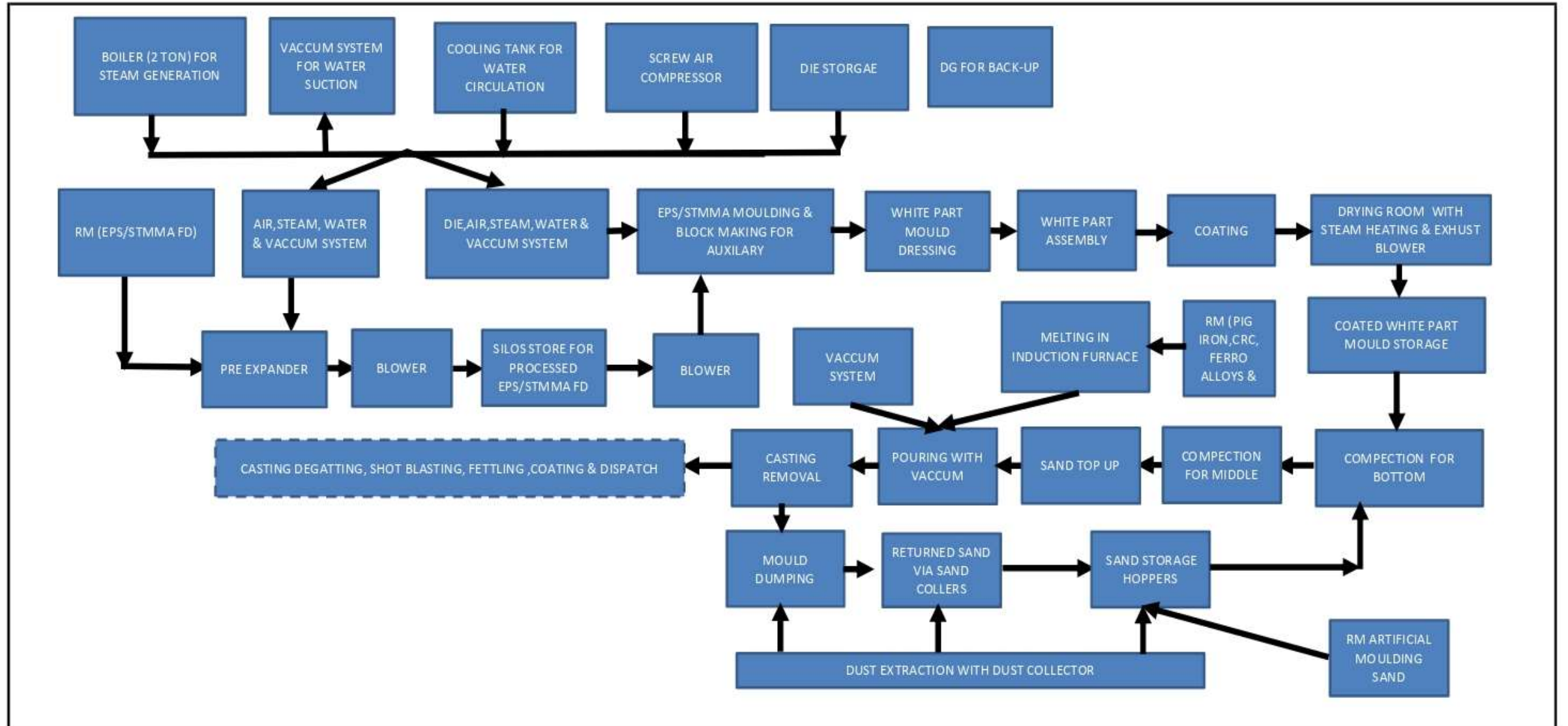
It is more or less similar to the Investment Casting process where the EPS patterns are used instead of Wax patterns. In addition to base material, the vacuum is being used at the time of moulding and pouring.

It is mainly categorized in White Part, Yellow Part & Black Part sections. The process sequence is:

- Die is made based on component drawing and EPS material is used to make patterns (White Part).***
- These EPS patterns are then assembled with a gating system in the form of a tree and coated with ceramic slurry and dried in a heated room (Yellow Part).***
- Once dried then it is ready for moulding & pouring.***
- The dry artificial synthetic sand is used for making moulds with the help of vacuum.***
- Then pouring is done in vacuum condition and thereafter a knock out process is performed to get the castings.***



VF VLFC PROCESS FLOW





Salient Features of VLFC Process

- *Smooth & Uniform Surface Finish.*
- *Consistent Casting Weight & Geometry, easy repeatability in machining set ups.*
- *Low chance of Internal Casting Defect due to Vacuum Pouring.*
- *Complicated shapes are feasible.*
- *Faster and better as compared to No Bake (Furon) process.*
- *Eco Friendly process.*

Thanks!!!



***Vishal Foundry
Rajkot (India)***

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