

# Passion For Perfection





**PASSION FOR PERFECTION**

# THE COMPANY

## The Professionally Managed Investment Castings Foundry

We can take up manufacturing of Precision Investment Casting according to Drawing, Specification, Material & Quantity detail and Sample provided by customer.



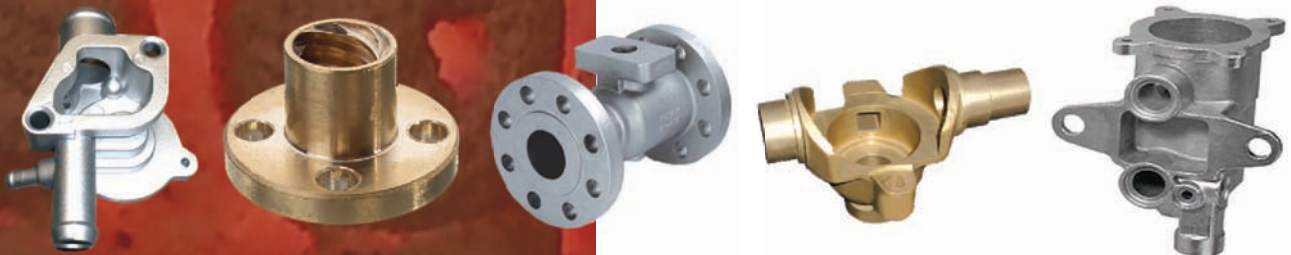
The Promoters of Vikas Group have been in the Foundry industry with a family legacy of over 60 years' experience. In the line of globalisation, liberalisation and "Make in India" program, the promoters have set up a state of the art Investment Casting plant in the name of Vikas Hitech Castings – a first of its kind in Eastern India. The plant has been designed to cater flexible and changing needs of the industry. It is equipped with the latest technologically advanced machineries to produce wide range of products through lost wax process.

Presently it is capable of manufacturing ferrous and non - ferrous casted products of various grades weighing from 5 gms to 150 kgs single piece with installed capacity of over 2400 MT per year. Plant is also equipped with polishing setup to cater highly polished components for furniture and cookware industry.

### Mission & Vision

We, at Vikas Hitech Castings, are collectively committed to remain ourselves as a reliable manufacturer of quality ferrous and non - ferrous products and to be a leader in the chosen market.

The goal is to have strategic partnership in growth with our customers by pursuing excellence in product quality, up gradation of manufacturing techniques and bench marking in processes.



# COMMITMENT

## The Professionally Managed Investment Castings Foundry



With a rich and innovative experience of more than 60 years, Vikas Group promoted Vikas Hitech Castings to meet quality precision casting demands of its customers.

Quality has been the bedrock of our concern right from its inception and the pursuit towards perfection is a never ending chase that is inbuilt in each and every personnel representing Vikas Hitech Castings.

### **Our commitment:**

- On time delivery
- Consistent Casting Quality
- Quick planning & development of samples
- Continuous training of engineers and technicians
- Transparency of quality assured at every stage, with all our customers



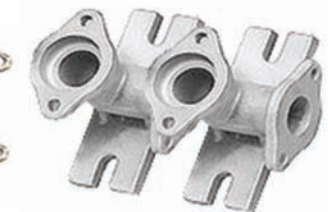
# WHY US?

## Passion for Perfection



Vikas Hitech Castings is professionally managed company:

- Qualified and experienced skilled staff
- Fully geared to accept bulk requirement
- Consistent Quality
- Quick responses to enquires.
- Quick sample development.
- Experienced project managers for large requirements
- Vikas Hitech Castings provides 3D Designing support and conversion of Sand Casting optimising product economy



# QUALITY ASSURANCE



**We at Vikas Hitech Castings individually and collectively are committed:**

- To achieve customer satisfaction by ensuring consistent product quality and in timely delivery.
- Organization has set objectives and periodically review quality management system for continual improvement and business growth.

Objectives of organization, as stipulated in the business plan is followed.

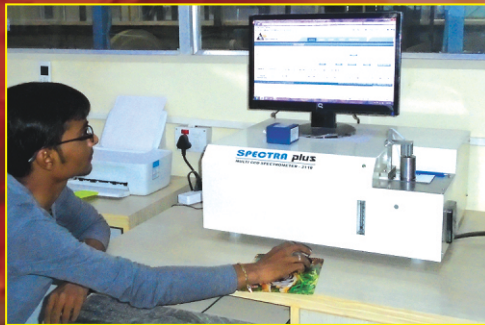
## **FOUNDRY APPROVAL:**

- ISO 9001
- Approved by RDSO for Railway Castings
- Approved by Rifle Factory Ishapore for Defence products



# TESTING

**We are dedicated for quality testing with workmanship**



## **Chemical Analysis:**

In house spectrometer with 24 channels alongwith fully equipped Chemical Lab.

## **Physical Testing:**

- Universal Testing Machine
- Hardness Testing Machine
- Impact Testing Machine
- Total Metallographic Laboratory

## **Test Provided:**

- Chemical Analysis
- Tensile Test
- Impact Test
- Radiography (X-ray)
- Dye Penetration
- Corrosion Test
- MPT Test
- Microstructure Analysis

Investment Castings can also be supplied under third party inspection such as LLOYDS, BUREAU VERITAS and DNV.



# PROCESS

**Dedicated quality workmanship**



## **Tool Development**

Tool established for making wax pattern

## **Wax Pattern Manufacturing**

Output of wax injection from tool

## **Pattern Assembly**

Attachment of pattern with feeders

## **Ceramic Coating**

Application of coating with binder & stucco

## **De-Waxing**

Removing wax from coated assembly

## **Shell Backing**

Pre-Heating of shells

## **Induction Melting**

Preparation of molten metal

## **Verification of Chemical Composition**

Ensuring by Spectrometer

## **Pouring**

Filling the shell with molten metal

## **Felting**

Detachment from feeders and surface finishing

## **Stress Reliving**

Setting the homogenous of metal

## **Inspection and Testing**

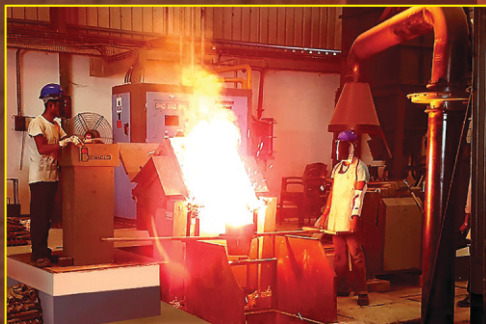
Verification of castings with customer's requirement





# PROCESS

**Dedicated quality workmanship**



The ceramic moulds are baked at the temperature ranging from 900 °C to 1200 °C depending on the size of the casting. The molten metal is then poured in the baked ceramic moulds.

The casting then undergoes fettling and Finishing process such as Gate Cutting, Gate Machining / Grinding, Sand Blasting, Shot Blasting, Leaching, Deburring etc.

The castings then undergoes the Heat Treatment as per the material specifications.

Heat Treatment furnace is calibrated and certified under third party witness.

All Castings are subject to 100% visual inspection.

All critical dimensions are inspected before packing & shipment.



# INDUSTRIES WE SERVE

At Vikas Hitech Castings manufactures Investment Castings for wide range of industries such as:

- **CUTLERY AND COOKWARE HANDLES**
- **RAILWAYS**
- **DEFENCE (GUNS AND ARMAMENT)**
- **VALVES**
- **AUTOMOBILE**
- **POWER SECTOR**
- **AGRICULTURAL**
- **CONSTRUCTION HARDWARE AND EQUIPMENTS**
- **DENTISTRY AND DENTAL TOOLS**
- **ARTIFICIAL LIMBS**
- **OIL WELL DRILLING AND AUXILIARY EQUIPMENTS**
- **TEXTILE MACHINERY**
- **AEROSPACE**
- **FOOD, PHARMA AND BEVERAGE MACHINE COMPONENTS**



**Cutlery & Cookware Handles**



**Railway**



**Defence (Guns & Armament)**



**Valves**



**Automobile**



**Power Sector**



**Agricultural**



**Construction Hardware Equipments**



**Dentistry & Dental Tools**



**Artificial Limbs**



**Oil Well Drilling & Auxiliary Equipments**



**Textile Machinery**



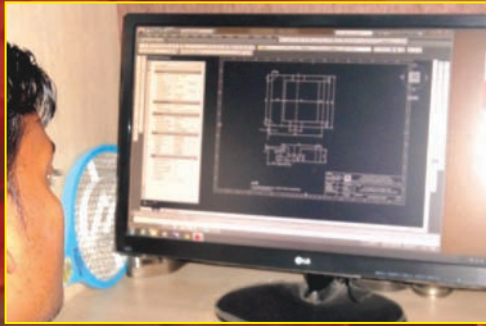
**Aerospace**



**Food, Pharma & Beverage Machine Components**

# 3D MODELS

Passion for growth

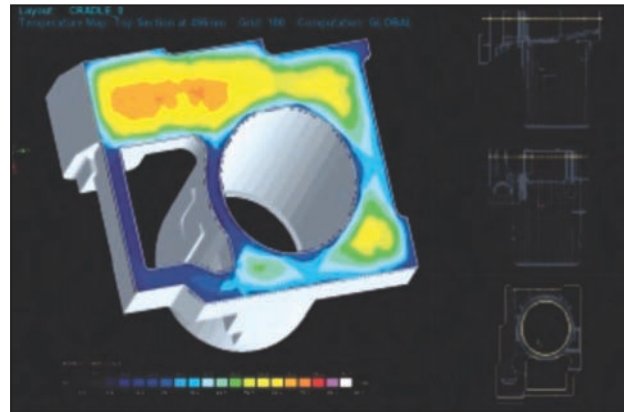


## Our Unique Selling Proposition (USP):

We are using Simulating and Methoding software to ensure truly sound casting. With this tool we save a lot of trail time and are pretty sure of the first batch production.



Making 3D Models



Component Analysis by Simulation Software



# POST PRODUCTION OPERATION



Vikas Hitech Castings is professionally managed Investment Casting Foundry:

## Heat Treatment:

- Solution Annealing
- Stress Relieving
- Normalizing
- Tempering
- Case Hardening
- Through Hardening
- Induction Hardening
- Gas Carburizing
- Carbo Nitriding

## Surface Treatment apart from Sand or Shot Blasting:

- Acid Pickling & Passivation
- Electro Polishing
- Zinc Plating
- Buffing
- Powder Coating
- Phosphating

## Machining:

- CNC Turning
- Milling
- VMC
- Lapping
- Broaching
- Polishing

### Cutlery & Handles Components



### Hardware & Spares Frame Components



### Automobile Components

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### Valve Components

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### Railway Components

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**Food, Pharma & Beverage Machine Components**



**General Engineering Components**



**Non Ferrous Components**





Pratima Creations • 8017089606



## **VIKAS HITECH CASTINGS**

Sankrail Industrial Park, NH-6, Bhagabatipur, Kanduah, P.S. Sankrail  
Howrah 711 302, West Bengal, India

Phone : + 91 33 2651 8006 / 8826 / 7676, Fax : + 91 33 2651 6435 / 2661 7675  
E-mail : [info@vikashitechcastings.com](mailto:info@vikashitechcastings.com), Website : [www.vikashitechcastings.com](http://www.vikashitechcastings.com)