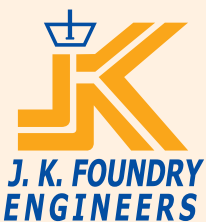


WE CREATE SOLUTION FOR YOUR FOUNDRY...

LOST FOAM CASTING

TECHNOLOGY OF THE FUTURE



J. K. Foundry Engineers
DESIGNER MANUFACTURER AND CONSULTANT OF
FOUNDRY & MATERIAL HANDLING EQUIPMENT



J. K. Engitech Pvt. Ltd.

ISO 9001: 2015 COMPANY



THE COMPANY



JKFE is Highly Motivated and skilled organization with almost 29 years of experience in supplying quality products to Indian and overseas foundry industry. Our mission to provide indigenously designed and developed fully automatic no bake moulding line, Co₂ sand moulding line, green sand, lost foam casting plants and V-process moulding line.

Formed in 1995 by experienced technocrats of foundry industry with mission to provide low cost solution to Indian and Overseas Foundry Industry. Our core responsibilities covers planning, designing, manufacturing, assembling and putting in to operation of entire foundry plant.

We are certified by ISO 9001:2015

We are equipped to meet challenges of the global market with wide experience in consulting, design reliability, manufacturing quality to satisfy our customers.

WHY JKFE FOR LFC

Looking to current market scenario of scarcity of sand availability and its disposal to reach out the mass production, JKFE focusing on to new Lost Foam Casting Technology replacing conventional casting process which will reduce process cost for casting manufacturing.

JKFE is providing Hi-tech solution for LFC process raw material - tool making - process equipment - process implementation.

Our company integrates research and development, production, installation, debugging and after sale service to ensure our machines normal and reliable operation. We have vast experience in technology with our own research and development facility for proto type casting development.



WE SHAPE YOUR PROFIT BY...

- Almost 29 years of foundry experience
- Wide choice of produces for small to big scale foundry
- Complete turnkey plants according to your requirements
- Plant design and consultancy
- Increased profit through increased productivity
- Improved quality with low cost
- After sales service
- Project management

LOST FOAM - THE FOAM THAT TURNS INTO GAS

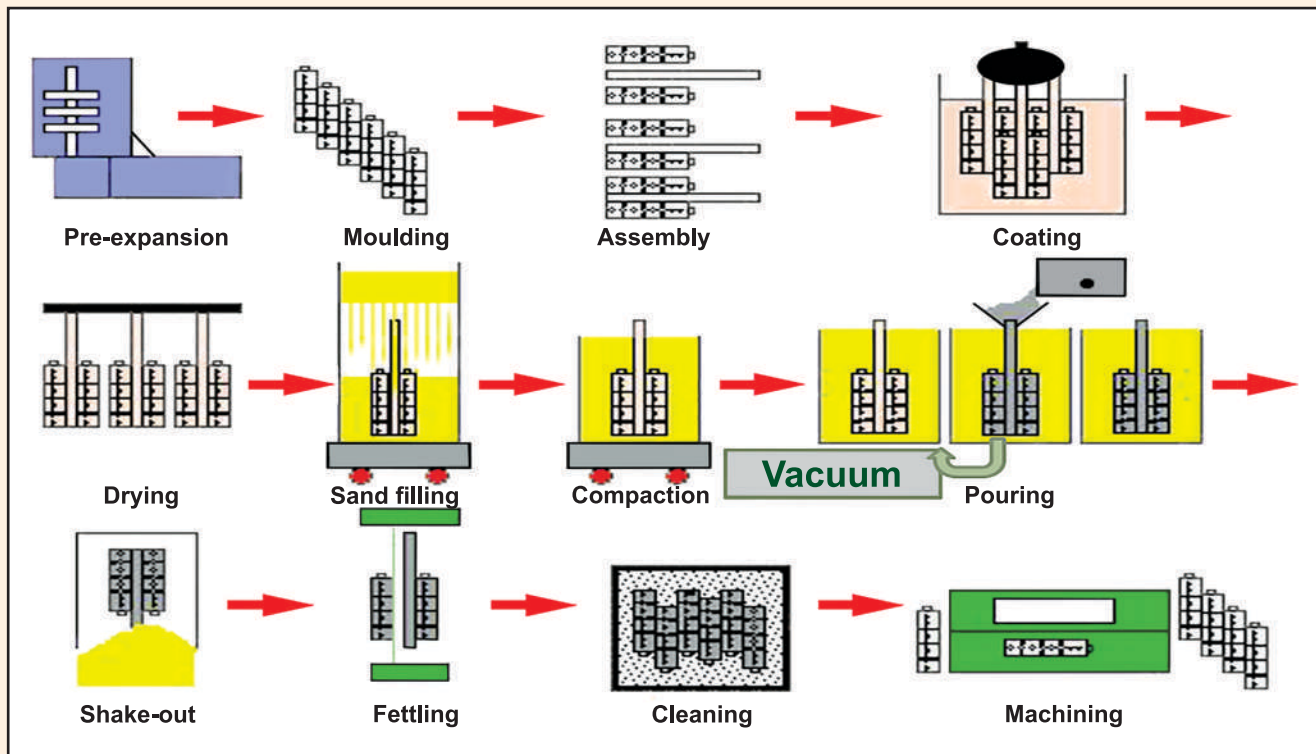
Lost Foam Casting Technology is widely applied in producing Steel Casting, Iron Casting, Copper Casting and Aluminium Casting.

The versatility of the lost foam casting process opens up count-less new possibilities for the production of castings and is the perfect complement to the other casting process.

The casting Process:

The Below Process consists of 3 Stages Which Assure You Final Finish Casting

- **White Part** - The making of a polymer foam pattern
- **Yellow Part** - The coating of the pattern
- **Black Part** - With help of compaction table, vacuum system and sand processing plant



“Lost Foam” casting grants the Freedom to create cost- effective precision designs, not feasible by conventional methods

- Now a days Indian foundry industry is facing very big problem because of sand scarcity & its disposal.
- Lost foam process is environment friendly processes with more then 95% sand reusable in process.
- Most favorable process for mass production.
- Imparts very good surface finish .
- Can work with less machining allowances.
- Simple process with high automation .
- Weight control on finished product.
- Lost Foam Casting Process is not only fit for castings of simple geometry, but also for multi-part, multi core castings of complex geometry which are hard to make with existing casting technology.
- Negative pressure pouring is more in favor of filling mold and replenishing shrinkage of liquid metals, and also enhances the internal density of casting.

We can also develop the clients’ component in LFC with our own Research & Development facility.

We can provide turnkey base solution for LFC plant as well as LFC pattern development and product development.



OUR PRODUCTS, YOUR SOLUTIONS

**J. K. FOUNDRY
ENGINEERS**

PRE EXPANDING MACHINE

- Expansion of raw material - EPS / STMMA at required density.
- Capacity - 20 Kg/Hr @ 25 density.
- With PLC control system and load cell for accuracy and proper repeatability.



MOULDING MACHINE

It is used to mould pre-expanded beads to desired size and shape as per die mounted on the machine.

- Transmission mode is divided into screw and hydraulic
- Control is divided into manual and automatic
- Automatic machine with PLC control, touch screen operation
- Easy operation, one person can operate several forming machines at the same time.

TECHNICAL SPECIFICATIONS

SPECIFICATION	UNIT	JKFE - M01	JKFE - M02
Mould Dimension	mm	1200 x 1000	1400 x 1200
Mould Stroke	mm	1000	1000
Hydraulic Stroke	mm	1000	1000
Steam Line	Inch	2	3
Steam Pressure	Kg/cm ²	2	2
Connected Load	HP	5	7.5



OUR PRODUCTS, YOUR SOLUTIONS

COMPACTION TABLE

Compaction of foam coated assembly in the pouring flask with help of dry washed silica sand

- 2D / 3D compaction table
- Along with 4 nos / 6 nos. vibratory motor depending upon shape of component
- VFD control system
- Multiple sensors for safety at various position
- Various recipe selection directly connected with sand showering system



VACUUM SYSTEM

To provide required negative pressure during pouring.

- Specially designed water parts for high temperature applications
- High efficiency water ring vacuum pump system
- Ranging from 7.5 kW - 75 kW as per the requirement



OUR PRODUCTS, YOUR SOLUTIONS

J.K.
J. K. FOUNDRY
ENGINEERS

WHITE FOAM PATTERN & COATING AREA

ASSEMBLY SECTION



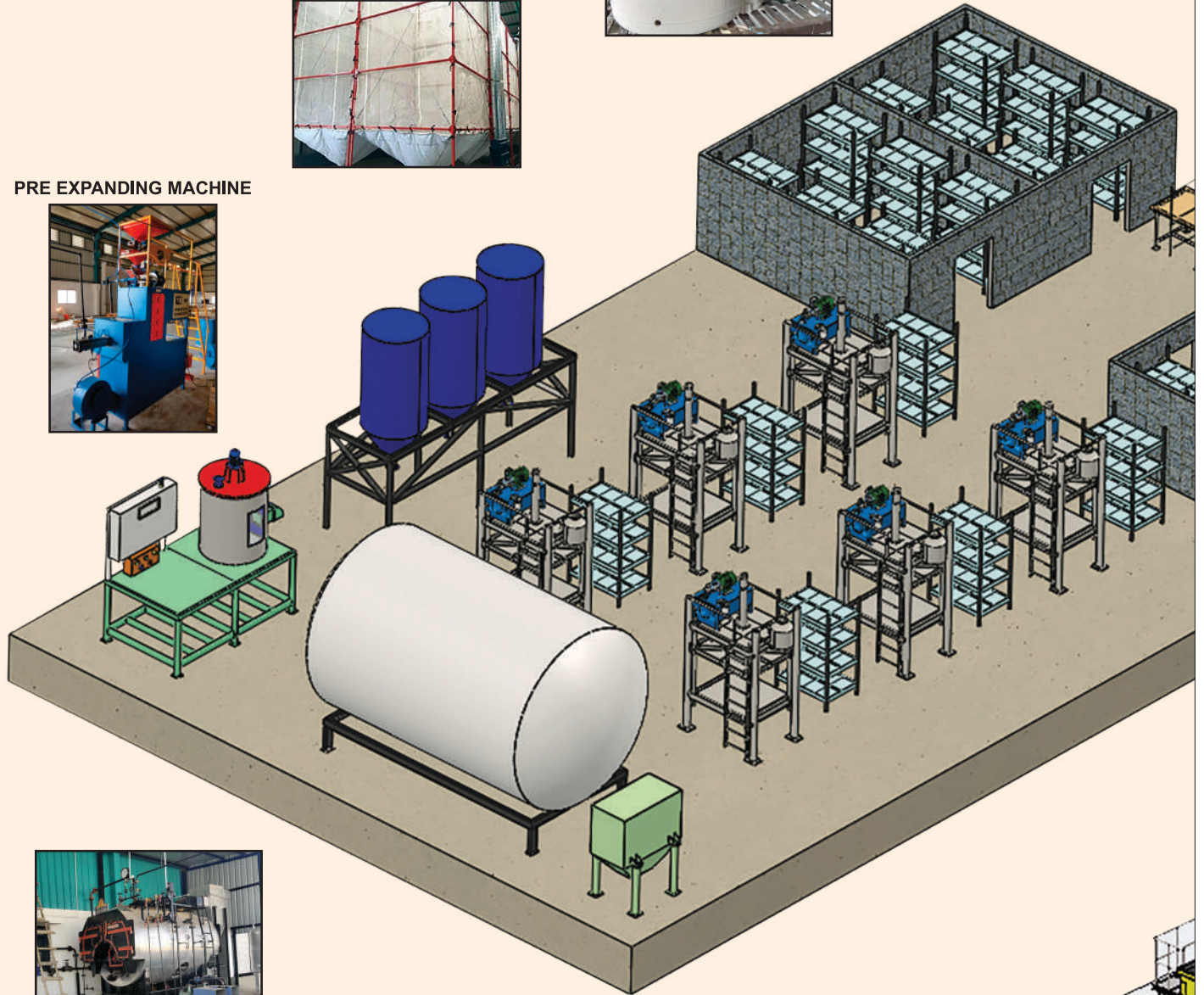
DRYING ROOM



SILO FOR BEADS STORAGE



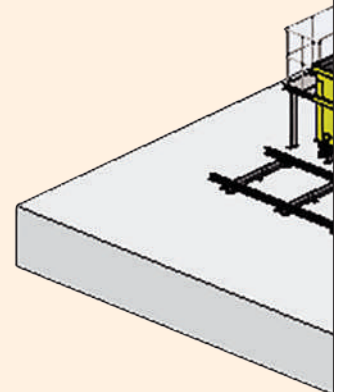
PRE EXPANDING MACHINE



BOILER UNIT



MOULDING MACHINE



OUR PRODUCTS, YOUR SOLUTIONS

SAND HANDLING & RECYCLING PLANT

COATING AREA



DUST COLLECTOR



SAND COOLER



SAND SHOWERING & COMPACTION TABLE



TILTING DEVICE



BUCKET ELEVATOR



TRANSFER CAR TROLLEY

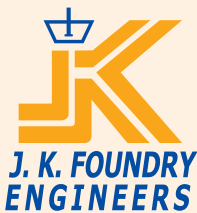


OUR PRODUCTS, YOUR SOLUTIONS

REVOLUTIONIZING FOUNDRY OPERATIONS



EQUIPMENTS & MACHINERIES - White Area - Coating Area - Black Area
RAW MATERIALS - Imported EPS - STMA Beads, Hot Glue, Cold Glue, Coating Material



J. K. Engitech Pvt. Ltd.

**DESIGNER MANUFACTURER AND CONSULTANT OF
 FOUNDRY & MATERIAL HANDLING EQUIPMENT**

Survey No. 381/2, Village CHADASANA, B/h. Torrent Pharma,
 Ahmedabad-Mehsana Highway, Chattral, Mehsana - 382 715. INDIA
 Telefax : +91 2764 268555 • M.: +91 9601474617 • E-mail: info@jkfoundryequipments.com

www.jkfoundryequipments.com



SCAN HERE FOR YOU TUBE CHANNEL



ISO 9001: 2015 COMPANY



SCAN HERE FOR WEBSITE