

WE CREATE SOLUTION FOR YOUR FOUNDRY...

GREEN SAND MOULDING EQUIPMENTS

RELIABLE

DURABLE

ECONOMICAL



J. K. Engitech Pvt. Ltd.

DESIGNER MANUFACTURER AND CONSULTANT OF
FOUNDRY & MATERIAL HANDLING EQUIPMENT

ISO 9001: 2008 COMPANY



THE COMPANY



JKFE is highly motivated and skilled organization with almost 28 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.

JKFE focusing on No-bake Molding Line, Water Glass (Silicate Moulding, Vacuum Moulding and Green Sand Moulding Plant and Sand Reclamation Plant single source for your all type sand casting foundry equipments.

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

Our expertise comes form our experienced team of engineers who are dedicated for research and development in the field of foundry technology. our product range covers all areas of foundry where sand is been used. We have wide equipments range for Green Sand, Silicate-Co₂ Sand and Chemical-Resin bonded No-Bake Sand technology. we cater our customers tailor made complete solutions.

We are certified by ISO 9001:2015.

We meet the challenges of the global market with experience in consulting and design, reliability and quality of manufacturing and a comprehensive service and satisfy our customers.



WE SHAPE YOUR PROFIT BY...

- Almost 28 years 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

GREEN SAND MIXING & MOULDING

INTENSIVE SPEED SAND MIXER - ISM

JSM SERIES CENTRIFUGAL TURBINE MIXER FOR GREEN SAND Reliable, Durable and Economical

The JSM Turbine Mixer delivers unbeatable reliability, precision, durability and cost-efficient operation. Robust design, precision engineering and quality components combine with the latest process control technology to make the JSM Mixer superior in every way.

- Efficient and economic operation due to high throughput rate and short mixing cycles.
- The large double "S" shaped mixing ploughs and high capacity blender rotate continuously during loading with pre-batched material and blender rotate in opposite direction, this combination guarantees fast, highly intensive preparation as well as perfect homogenization of the mixing sand.
- Easy access to all wear parts for quick replacement.
- Low maintenance requirement due to robust components and minimum wear of mixing tools and mixer bowl.
- An optional Sand Controller ensures ideal sand quality by enabling integration of dosing, mixing and moistening.
- An optional precision weighing control system for used sand and additives.
- Specially designed for green sand plant.
- Fully Automated Operation.



Technical Specification

MODEL	JSM – 18/125	JSM – 30/160	JSM – 45/180	JSM – 60/200
Dimension				
Shell Diameter	1250 mm	1600 mm	1800 mm	2000 mm
Height of Mixer	3050 mm	3450 mm	3650 mm	3850 mm
Overall Dimension	1925 x 2225	2075 x 2425	2250 x 2925	2400 x 3125
Batch Specification				
Batch Volume (Max.)	300 Kg	500 Kg	750 Kg	1000 Kg
Cycle Time	120 Sec Max	120 Sec Max	120 Sec Max	120 Sec Max
Batches / Hour.	30-32	30-32	30-32	30-32
Mixing Rate	9-10 M3/H	15-16 M3/H	22-25 M3/H	30-35 M3/H
Drive Power				
Main Vanes Power	18 KW	30 KW	45 KW	60 KW
Blander Rotor Power	1 x 11 KW	1 x 18 KW	1 x 22 KW	2 x 18 KW
Total Power	30 KW	48 KW	75 KW	96 KW



OUR PRODUCTS, YOUR SOLUTIONS

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GREEN SAND MIXING & MOULDING

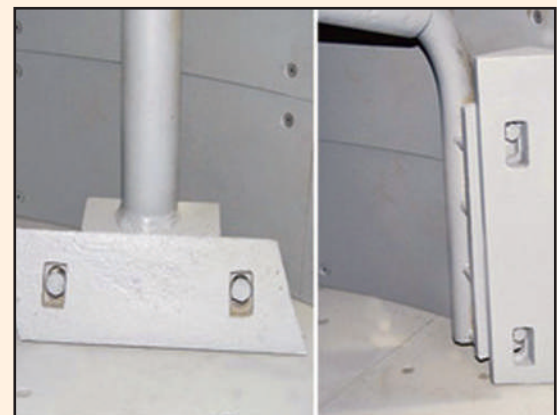
SI SERIES GREEN SAND MIXER

ECONOMICAL & EFFICIENT SAND MIXING TECHNOLOGY

Technical Specification

MODEL	SI - 250	SI - 500	SI - 750
Batch Specification			
Batch Volume (Max.)	250 Kg	500 Kg	750 Kg
Cycle Time	120 Sec Max	120 Sec Max	120 Sec Max
Batches / Hour	30-32	30-32	30-32
Mixing Rate	9-10 M3/H	15-16 M3/H	22-25 M3/H
Drive Power			
Main Motor Power	15 KW	30 KW	45 KW
No. of Mixing Blade	3 Nos.	3 Nos.	6 Nos.
Scrapper	1 No.	1 No.	2 No.

- Easy access to all wear parts for quick replacement.
- Planetary gear box design with single drive unit to drive mixing blade as well as scrapper.
- Lowest power consumption than any other green sand mixer.
- Consistency in mixing with 360° rotation of mixing blade in each and every corner of mixer.
- Fully automated operation.



ADDITIVE FEEDERS

FOR FEEDING OF BENTONITE POWDER AND COAL DUST INTO INTENSIVE MIXER



BELT TYPE



SCREW TYPE



OUR PRODUCTS, YOUR SOLUTIONS

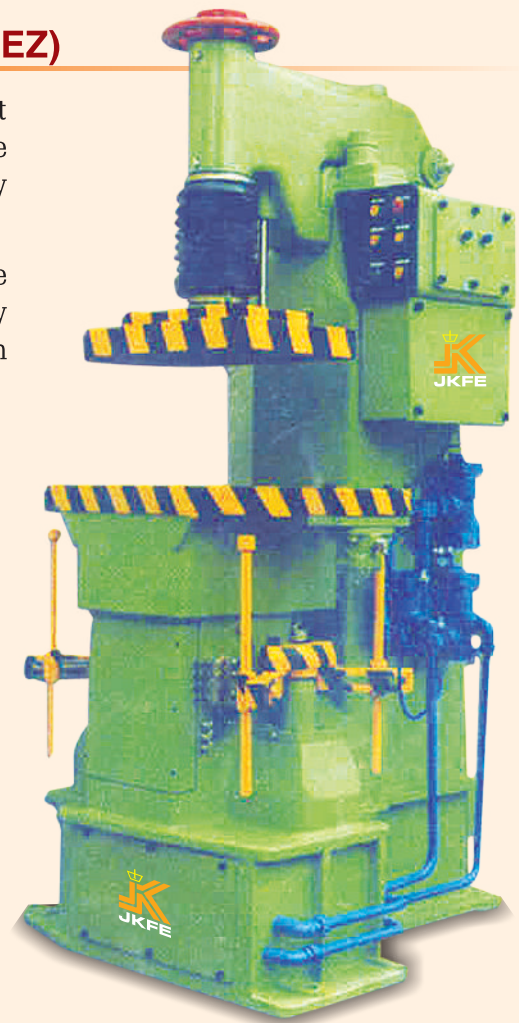
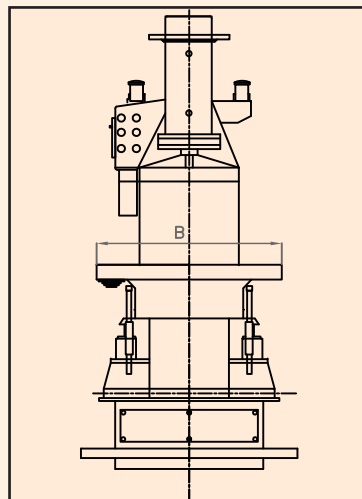
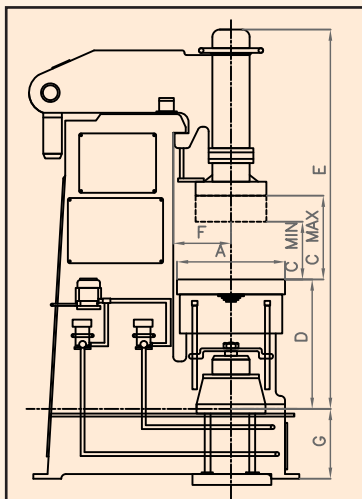
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GREEN SAND MIXING & MOULDING

MOULDING MACHINE (SYMENTENOUS JOLT SQUEEZ)

Gone are the days when preparing good quality of mould with consistent sand pack density, was not manual skill oriented but also quite time consuming. Now the jolters and squeezers are a part of any good foundry that care for productivity and consistent quality.

JKFE engineering expertise coupled with the in-depth knowledge of the requirements of the perfect moulds has resulted in bringing out the highly efficient and fast simultaneous Jolt Squeezing Machine is engineered with utmost care to improve your productivity many folds with affordable cost.



SPECIAL FEATURES

- Sturdy construction.
- Simultaneous jolt squeeze for high mould strength.
- Engineered for easy maintenance.
- Centralized auto lubrication during each cycle.
- Feather touch push buttons for controls.
- Hard chrome plated guide rods and lifting rods.
- Gradual lifting and simultaneous vibration for improved separation of the mould from the pattern.
- Automatic operation - Complete pneumatic or electro-pneumatic controls

MACHINE DIMENSIONS

MACHINE SIZE	JMM - 200	JMM - 300	JMM - 450
A	510	580	680
B	840	960	1050
C Min.	210	310	300
C Max.	350	450	500
D	740	670	700
E	1650	1850	1980
F	295	310	370
G	240	400	620

TECHNICAL SPECIFICATIONS

MODEL	JMM - 200	JMM - 300	JMM - 450
Jolt Capacity	200 Kgs.	300 Kgs.	450 Kgs.
Pattern Draw	200 mm.	220 mm.	250 mm.
Squeeze Stroke	130 mm.	130 mm.	140 mm.
Static Squeeze Pressure	4000 Kgs.	5000 Kgs.	8000 Kgs.
Dynamic Squeeze Pressure	12000 Kgs.	15000 Kgs.	24000 Kgs.
Air Supply Pipe to the M/c.	1½"	1½"	2"
Table Size	510x840 mm.	580x960 mm.	680x1050 mm.
Net Weight of the M/C.(Approx.)	1950 Kgs.	2700 Kgs.	3900 Kgs.



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GREEN SAND MIXING & MOULDING

POLYGONAL SAND SIVER



POLYGONAL SAND SIVER

Model	Capacity TPH	Power Kw
JKFE-GPS01	10	2.2
JKFE-GPS02	15	2.2
JKFE-GPS03	20	3.7
JKFE-GPS04	30	3.7
JKFE-GPS05	50	5.5



SAND COOLER CLASSIFIER

- JKFE Coolclass ensures a effective separation of dead clay as well as cooling of sand using a unique water heat transfer system. An all-in-one system eliminates the need for a seperate sand cooler and sand classifier.
- Coolclass is designed for hot conditions as Asian and African continental.
- Coolclass is used to get perfect temperature of returning sand before entering in sand mixture.

SPECIAL FEATURES

- Robust design.
- Low maintenance.
- Long lasting.
- Available in different models for different output.



Model	Capacity TPH	FD Fan Power HP	Extraction Power HP	Water Required LPM
JK-GSC-01	5-8	15	7.5	900
JK-GSC-02	10-12	25	10	1260
JK-GSC-03	15-18	30	15	1700
JK-GSC-04	20-25	40	20	2420
JK-GSC-05	30-35	50	25	3000



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GREEN SAND RECLAMATION

DUST COLLECTION UNIT

We offer pulse jet dust collectors which is ideally suited for dust extraction from returning sand.

- This pulse jet dust collector is engineered to a specific pressure or vacuum.
- These are used as dust collector for the purpose of removing dead sand and dust from returning sand at the time of cooling in cooler classifier.
- Dust collectors contains number of bags covered on metallic cage the bags are made of PP Polyester and non woven plastic



MANUAL / SEMI AUTOMATIC / AUTOMATIC GREEN SAND PLANT



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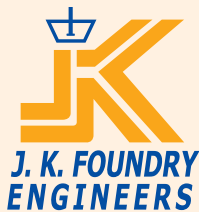

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OUR RANGE OF PRODUCTS

KNOCK OUT MACHINE	BUCKET ELEVATOR
SAND MULLER AND MIXER	MOLTEN METAL HANDLING SYSTEM
INTENSIVE MIXER	POURING LADLES
CONTINUOUS MIXER	FURNACE CHARGING SYSTEM
MOULDING MACHINE	SKIP CHARGER
COMPACTION TABLE	HEAT TREATMENT FURNACES
VIBRATING FEEDERS	SURFACE TREATMENT EQUIPMENTS
SAND SHEAVER	SHOT BLASTING MACHINE
SAND COOLER	LADLE PRE-HEATER
SAND DRIERS	MAGNETIC PULLEYS
MOULD HANDLING SYSTEM	MATERIAL HANDLING EQUIPMENTS
PALLET CONVEYORS	CO2 GAS MANIFOLD SYSTEM
ROLLER CONVEYORS	FURNACE LINING EQUIPMENTS
SAND REGENERATION PLANT	BELT CONVEYOR

OUR SPECIALITIES

- **MANUFACTURING IN DIFFERENT CAPACITIES TO SUIT THE PURPOSE** •
- **AFFORDABLE ECONOMICAL PRICE** •
- **WELL DESIGNED FOR EASY MAINTENANCE** •
 - **STURDY CONSTRUCTION** •
 - **HIGHLY PRODUCTIVE** •
 - **TAILOR MADE EQUIPMENTS** •
 - **TURNKEY PROJECTS** •



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