

BAJRANG
ENGINEERING

An ISO 9001:2015 Certified Company



WE MAKE **FOUNDRY**
BETTER TO CAST



Foundry
& Equipment
& Machinery



www.bajrangengineering.in

COMPANY PROFILE

Started its operation at Ahmedabad, (Gujarat, India), in the year 2006, we, “BAJRANG ENGINEERING,” are one of the leading manufacturers and suppliers of a superior quality range for different process to manufacture casting such as Co2, No-Bake, Lost Foam, Green sand & Centrifugal etc. In addition, we also offer Bowel Mixer, Continuous Mixer Single & Double Arm Screw Type, Crusher No Bake, Sand Mixer Machine, Sand Siever, Heat Treatment Furnace, ladle Pre-Heater, Swing Frame Grinder, Flow Coating, Pneumatic Sand Conveyor, Knock-Out, ladle, etc.

Under the expert supervision of our mentor, “**Mr. Jasubhai Patel**”, we have managed to gain prominence in the industry. He is a man of principles and inspires us to follow ethical policies in our business operations.

We have a team of highly qualified and experienced mechanical engineers as well as technicians who aid us in fabricating machines as per the specific market demands. Once machines are manufactured, these are made to undergo stringent quality checks at our advanced quality control unit.

**“Your Perfect Solution is our Aim.
Your Real Happiness is our Name.”**



Articulated Arm Type Auto Continuous Mixer

Features

- Robust Design to handle the adverse conditions of Foundry Environment.
- User friendly HMI Touch Display Operation.
- Low Maintenance and Running Cost.
- No Special skills required to operate it, giving peace of mind and freedom from manpower hassle.
- Ensures Uniform Production Quality with minimum and easy Calibration.
- GUI indications on HMI Screen for any breakdown situation helps in rapid diagnosis & minimize the off production time.



Configuration

- 05 to 30 M.T. per Hour for "No Bake" mould sand and 10 to 30 M.T. per hour for "CO₂" Mould sand.
- Covers a span of Radial (4 mtr & 6 mtr) in 270 degree of moulding area.

Technical Specification For No - Bake Series

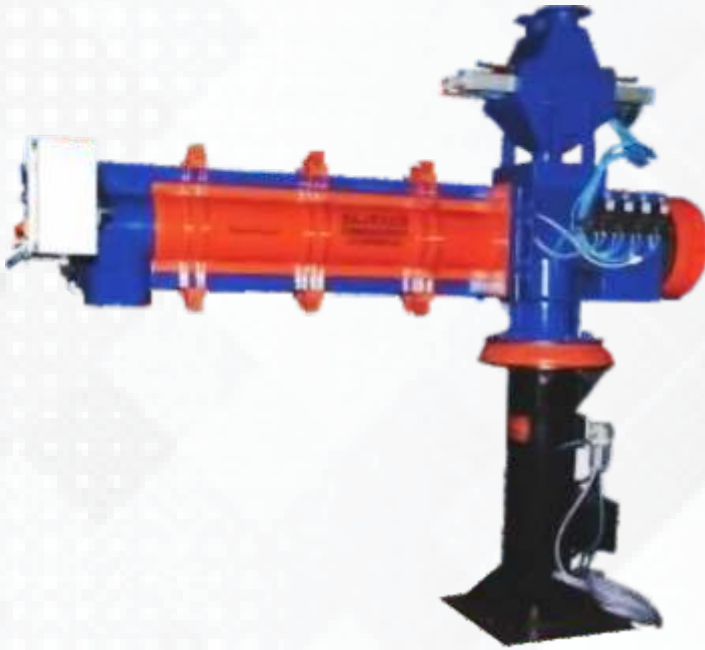
Sr. No.	Model No.	Capacity	Power Consumption			Articulated	
			Mixer Motor	Hardner Motor	Resin Motor	Screw Motor	Articulated Arm Movement
1.	BE/DACM/GA/NB 005	05 -10 TPH	7.5 HP	0.5 HP	0.5 HP	3 HP	AUTO
2.	BE/DACM/GA/NB 010	10-15 TPH	10 HP	0.5 HP	0.5 HP	3 HP	AUTO
3.	BE/DACM/GA/NB 015	15-20 TPH	15 HP	0.5 HP	0.5 HP	5 HP	AUTO
4.	BE/DACM/GA/NB 020	20-25 TPH	20 HP	0.5 HP	0.5 HP	5 HP	AUTO
5.	BE/DACM/MA/NB 005	05-10 TPH	7.5 HP	0.5 HP	0.5 HP	3 HP	MANUAL
6.	BE/DACM/MA/NB 015	10-15 TPH	10 HP	0.5 HP	0.5 HP	3 HP	MANUAL
7.	BE/DACM/MA/NB 015	15-20 TPH	15 HP	0.5 HP	0.5 HP	5 HP	MANUAL
8.	BE/DACM/MA/NB 015	20-25 TPH	20 HP	0.5 HP	0.5 HP	5 HP	MANUAL

Technical Specification For Co₂(Sodium Sillicate) Series

Sr. No.	Model No.	Capacity	Power Consumption			Articulated	
			Mixer Motor	Silicate Motor	Water Motor (Optional)	Screw Motor	Articulated Arm Movement
1	BE/DACM/GA/SL 010	10-15 TPH	15 HP	1.5 HP	0.5 HP	3 HP	AUTO
2	BE/DACM/GA/SL 015	15-20 TPH	20 HP	2 HP	0.5 HP	5 HP	AUTO
3	BE/DACM/GA/SL 020	20-25 TPH	25 HP	2.5 HP	0.5 HP	5 HP	AUTO
4	BE/DACM/MA/SL 010	10-15 TPH	15 HP	1.5 HP	0.5 HP	3 HP	MANUAL
5	BE/DACM/MA/SL 015	15-20 TPH	20 HP	2 HP	0.5 HP	5 HP	MANUAL
6	BE/DACM/MA/SL 020	20-25 TPH	25 HP	2.5 HP	0.5 HP	5 HP	MANUAL

GA-Gear Articulated Auto movement MA-Manual Articulated Movement

Single Arm Type Auto Continuous Mixer



Features

- Optional User friendly HMI Touch Display.
- Indigenously developed first time in India.
- Available for both CO₂ & No Bake Process.
- Low Maintenance and Running Cost.
- No Special skills required to operate it, giving peace of mind and freedom from manpower hassle
- Ensures Uniform Production Quality with minimum and easy Calibration.

Configuration

- 05 to 20 M.T. per Hour for “No Bake” mould sand.
- 03 to 20 M.T. per Hour for CO₂ system mould sand.
- Covers a span of Radial 06 feet in 180° of moulding area.

Technical Specification For No - bake Series

Sr. No.	Model No.	Capacity	Power Consumption		
			Mixer Motor	Hardner Motor	Resin Motor
1	BE/SACM/NB -05	05-08 TPH	7.5 HP	0.5 HP	0.5 HP
2	BE/SACM/NB -08	08-10 TPH	10 HP	0.5 HP	0.5 HP
3	BE/SACM/NB -010	10-20 TPH	15 HP	0.5 HP	0.5 HP

Technical Specification For Co₂(sodium sillicate) Series

Sr. No.	Model No.	Capacity	Power Consumption		
			Mixer Motor	Silicate Motor	Water Motor (Optional)
1	BE/SACM/SL -005	03-05 TPH	7.5 HP	1 HP	0.5 HP
2	BE/SACM/SL -008	05-08 TPH	10 HP	1 HP	0.5 HP
3	BE/SACM/SL -010	08-10 TPH	15 HP	1.5 HP	0.5 HP
4	BE/SACM/SL -015	10-15 TPH	20 HP	1.5 HP	0.5 HP
5	BE/SACM/SL -020	15-20 TPH	25 HP	2 HP	0.5 HP

Batch Type Bowl Mixer (Super Mixer)

Features

- Sturdy Design to handle the adverse conditions of Foundry Environment.
- User friendly PLC Micro Controller based operation.
- Indigenously developed in India.
- Available for both CO₂ & No Bake Process.
- Very Low Maintenance and Running Cost.
- No Special skills required to operate it, giving peace of mind and freedom from manpower hassle.
- Ensures Uniform Production Quality with minimum and easy Calibration.
- Sufficient 500 Kg Sand Hopper & available in 2 mt. sand Hopper.
- Heavy Duty 7.5 HP Motor (Branded) used to Produce Optimum Torque.
- Controlled Consumption of Binders using Actuator Ball Valves.
- Optional Counter for the number of produced cycles on daily basis.
- Speedy (30 to 50 Seconds) Batch Mixing for all types of Sand.
- Suitable for Foundries with a production capacity of up to 45 TPM
- Suitable for core Making.



Configuration

- Fully Automatic with production @ touch of a button.
- Semi Automatic with Manual Controls

Technical Specification For No - Bake Series

Sr. No.	Model No.	Capacity	Power Consumption			
			Mixer Motor	Hardner Motor	Resin Motor	Sand Hopper
1	BE/BMFA/NB -1	30 KG/BATCH	7.5 HP	0.5 HP	0.5 HP	500 KG & 2mt.
2	BE/BMSA/NB -2	30 KG/BATCH	7.5 HP	0.5 HP	0.5 HP	-
3	BE/BMM/NB -3	30 KG/BATCH	7.5 HP	-	-	-

Technical Specification For Co₂ Series(Sodium Silicate)

Sr. No.	Model No.	Capacity	Power Consumption		
			Mixer Motor	Silicate Motor	Sand Hopper
1	BE/BMFA/SL -1	30 KG/BATCH	7.5 HP	1 HP	500 KGS & 2mt.
2	BE/BMSA/SL -2	30 KG/BATCH	7.5 HP	1 HP	-
3	BE/BMM/SL -3	30 KG/BATCH	7.5 HP	-	-

Knock Out / Shake Out Machine



Features

- One Touch Operation.
- Available for both CO₂ & No Bake Process.
- Available in Customized Size & Capacity.
- Low Maintenance and Running Cost.
- Increases the life of Mould Box.
- Freedom from hammering to clean the castings.

Configuration

- Off Centre Eccentric Shaft Type for CO₂ & No Bake Processed Sand Mould Vibratory Motor Type for No Bake Processed Sand Mould.

Capacity

- 01 to 04 sq. Mtr
- 0.50 to 25 MT weight Handling of Mould

Technical Specification for Vibratory Motor Knock-out Series

Sr. No.	Model No.	Deck Size (mm)	Deck Loading Capacity Kg.	Vibratory Motor
1	BE/KNT/VM -01	1000X1000	1 Ton	2 HP (2 Nos)
2	BE/KNT/VM -02	2000X2000	3 Ton	3 HP (2 Nos)
3	BE/KNT/VM -03	2000X2500	8 Ton	5 HP (2 Nos)
4	BE/KNT/VM -04	3000X3000	18 Ton	7.5 HP (2 Nos)
5	BE/KNT/VM -05	3000X4000	25 Ton	10 HP (2 Nos)

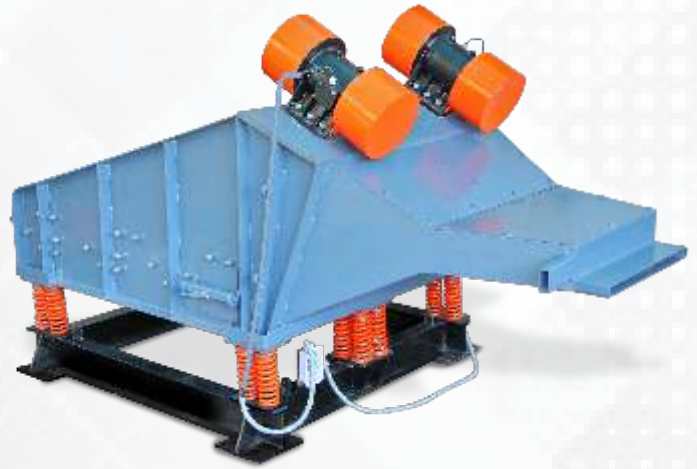
Technical Specification For off Set Eccentric Shaft Series

Sr. No.	Model No.	Deck Size (mm)	Deck Loading Capacity Kg.	Motor
1	BE/KNT/ES -01	1000X1000	1 Ton	2 HP
2	BE/KNT/ES -02	2000X2000	3 Ton	3 HP
3	BE/KNT/ES -03	2000X2500	8 Ton	5 HP
4	BE/KNT/ES -04	3000X3000	18 Ton	7.5 HP
5	BE/KNT/ES -05	3000X4000	25 Ton	10 HP

Knockout With Crusher It Consist Of A Knockout Cum Lump Reducer

Features

- Low Maintenance and Running Cost.
- Freedom from hammering to clean the castings.
- Helpful in recovering the metal reinforcement rods/ chills/ flow offs usually trapped in sand lumps.
- It Consist of a knockout cum lump reducer.



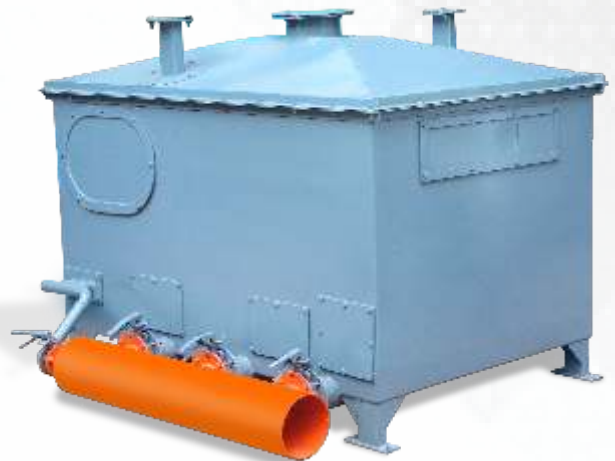
Technical Specification For No - Bake Series

Sr. No.	Model No.	Capacity	Deck Size (mm)	Vibratory Motor	Deck Loading Capacity Kg.
1	BE/KNTC/R -001	1 - 3 TPH	1500(W)X1500(L)	3 HPX2 (2 nos)	2000 Max
2	BE/KNTC/R -002	3 - 6 TPH	1500(W)X1500(L)	5 HPX2 (2 nos)	2000 Max

Sand Cooler & Classifier

Features

- One Touch Operation.
- Available for No Bake Process.
- Available in Customized Size & Capacity.
- Low Maintenance and Running Cost.
- Saves Environment and Production Cost by allowing to use reclaimed sand rapidly & continuously.
- Fluidization is done with controlled amount of air flow help to remove dust and fins from sand.
- Provision of temperature sensing system for output sand.



Technical Specification

Sr. No.	Model No.	Capacity	Blower	Water Required
1	BE/CCL/R -001	1-3 TPH	15 HP	250 LPM
2	BE/CCL/R -002	3-6 TPH	20 HP	500 LPM
3	BE/CCL/R -003	6-9 TPH	30 HP	800 LPM

Pneumatic Sand Conveyor (Sand Transporter)



Features

- One Touch Operation.
- User friendly PLC Micro Controller based operation.
- Available for both Reclaimed & New Sand.
- Available in Customized Size & Capacity.
- Low Maintenance and Running Cost.
- Smooth and trouble free transportation to Over Head Sand Silo.

Technical Specification

Sr. No.	Model No.	Capacity	Pipe Size	Air Required at 50 meter
1	BE/PNC/R -001	1 - 3 TPH	4" DIA	45 CFM
2	BE/PNC/R -002	3 - 6 TPH	4" DIA	65 CFM
3	BE/PNC/R -003	6 - 9 TPH	6" DIA	90 CFM

*Air Consumption can increase as length of pipe line increase and decrease with decreasing in length of pipe line. This given data is ideal at 50 meter pipe line/It is very with length of conveying Line

Compaction Table / Vibrating Table



Features

- Provides fast and uniform compaction at every point of sand mould.
- Variable speed controller (A. C. Drive or timer) to provide flexibility For vibrations in mould weighs and sizes.
- For smooth vibration through using air rubber below (air spring) as suspension as well as vibrating able lift up and Isolate from roller top.
- Several special sizes available as tailor made.

Technical Specification

Sr. No.	Model No.	Size (mm)	Vibration Motor	Rubber Below Size	Number of Air Below
1	BE/CMT/R -001	1000(W)X1500(L)	1 HP (2 no.)	8"x1 c	4
2	BE/CMT/R -001	1500(W)X2000(L)	1 HP (2 no.)	8"x1 c	6

Mechanical Attrition / Sand Crusher

Features

- Most Sturdy Design to handle the adverse conditions of Foundry Environment.
- One Touch Operation.
- Indigenously developed in India.
- Available for both CO₂ & No Bake Process.
- Available in Customised Size & Capacity.
- Low Maintenance and Running Cost.
- Saves Environment and Production Cost by Reclaiming the used sand.
- No Special skills required to operate it, giving peace of mind and freedom from manpower hassle.
- Helpful in recovering the metal reinforcement rods chills/ flow offs usually trapped in sand lumps.



Technical Specification For No - Bake Series

Sr. No.	Model No.	Capacity	Vibrator Motor
1	BE/CR/NB -001	1-3 TPH	5 HP
2	BE/CR/NB -02	3-6 TPH	7.5HP
3	BE/CR/NB -03	6-9 TPH	10 HP

Technical Specification For CO₂ (Sodium Silicate) Series

Sr. No.	Model No.	Capacity	Vibrator Motor
1	BE/CR/SL -001	0.5-1 TPH	5 HP
2	BE/CR/SL -002	1-3 TPH	7.5 HP
3	BE/CR/SL -003	3-6 TPH	10 HP

CO₂ Manifold

Features

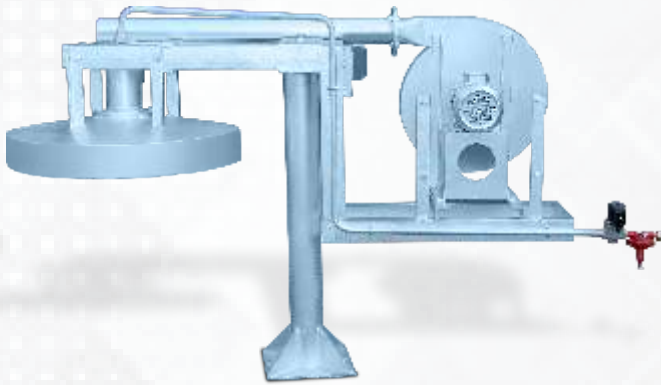
- Designed to handle the adverse conditions of Foundry Environment.
- Indigenously developed in India.
- Available in Customized Size & Capacity.
- Highly Efficient.
- No Special skills required to operate it, giving peace of mind and freedom from manpower hassle.
- accurate and constant gas flow.
- Auto cut off by thermocouple when temperature arrive.
- Temperature gauge to see temperature.
- Provision of to control the pressure of CO₂ gas by regulator
- Pressure gauge given to see availability of gas in bottle.
- Provision of needle valve to control the flow of gas and to select the system.

Technical Specification

Sr. No.	Model No.	No. of Cylinder	Water Heater
1	BE/COM/R -002	2 X 2 Cylinder	3 kw
2	BE/COM/R -003	3 X 3 Cylinder	3 kw
3	BE/COM/R -004	4 X 4 Cylinder	3 kw
4	BE/COM/R -005	5 X 5 Cylinder	3 kw



LADLE PRE-HEATER



Features

- BE ladle pre-heater are used for heating the refractory lining of lip pouring and bottom pouring ladle. Ladle pre-heater consist of a horizontal steel frame pivoted on a turret assembly fitted with radial and thrust bearing mounted on a fabricated stand.
- Ladle pre-heater is fitted with the BE Burner to obtain a maximum drying temperature of 1000 degree Celsius. Combustion air is provided by the Centrifugal Blower.

Features

- Available in wide range of sizes.
- Easy to operate and maintain.
- Excellent fuel economy.
- Country wide after sales-service.
- Robust Construction

Range :- 500 Kg To 25000 Kg in multiple Fuel Like CNG,LPG,Diesel,LDO
:- as per customer requirement.

Available with Manual Fire Operating system & Automatic Fire Operating system.

Swing Frame Grinder



- BE manufacture "Swing Frame Grinder Machine" are designed in such a way that it have easy maintenance to grind the large size of castings and also provide good edge Preparation for finishing Purpose. This machine is developed and design using advance technology and quality raw materials. This is manufactured in compliance with international standard.

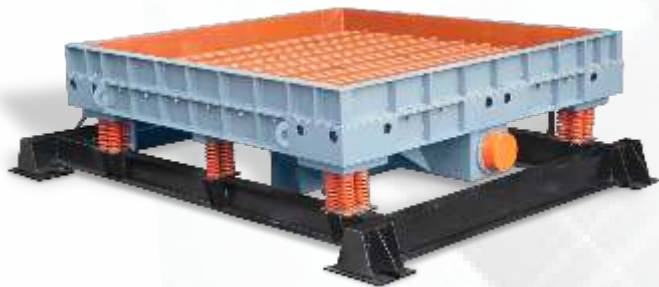
Features

- Easy maintenance and provide high efficiency.
- Easy to Operate & Handle.
- Manufacture with Standard Wheel Diameter.
- Available in both series Heavy & Light Duty to survive different types of industries.

Technical Specification

Sr. No.	Model No.	Standard Wheel Size	Power Of Motor/RPM
1	SGF-12L	12" X 1.5"	5HP/1440 RPM
2	SFG-16L	16" X 2"	7.5HP/1440RPM
3	SFG-16H	16" X 2.5"	7.5HP/1440RPM
4	SFG-16H1	16" X 2.5"	10HP/1440 RPM

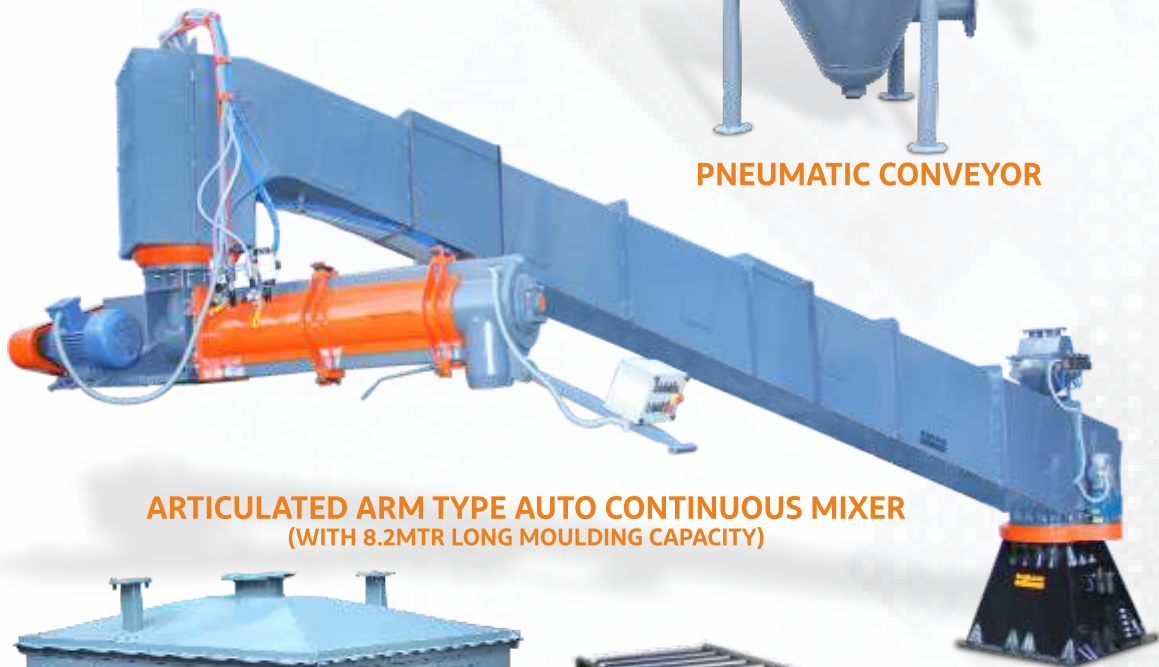
Product Gallery



SAKE-OUT MACHINE



PNEUMATIC CONVEYOR



**ARTICULATED ARM TYPE AUTO CONTINUOUS MIXER
(WITH 8.2MTR LONG MOULDING CAPACITY)**



SAND COOLER & CLASSIFIER



ROLLER TRACK



BELT CONVEYOR

Other Foundry Equipment

Vacuum Casting Equipment (LOST FOAM CASTING)

1. Vibro Feeder cum Shake-out.
2. Cooler Classifier.
3. Pneumatic Conveyor.
4. Turn Table.
5. Transfer Trolley.

Green Sand Casting Equipment

1. Shake-Out Machine.
2. Vibro feeder.

Centrifugal Casting Equipment

1. Centrifugal Casting Machine

Auxiliary Equipment

1. Heat Treatment Furnace.
2. Agitator pump for water quenching.
3. Bucket Elevator.
4. Ladle.
5. Flood Coating.
6. Core oven.
7. Scrap Charger.
8. Mould Flask.

BAJRANG **ENGINEERING**

FOUNDRY EQUIPMENT & MACHINERY

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