



FANS BRO ERECTORS

Specialist in Blending & Roasting Systems

*Fabrication, Erection & Commissioning of
Equipment and Vessels For Chemical Plants,
Atomic Power Plants, Dairy
& Food Processing Industries.*

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Roaster Machine

The Industrial Roasting Machine is multipurpose machine used for roasting and thereby reducing moisture contents, increasing shelf life of various types of **spices, grains, cereals, flour, pulses / dal, seeds, nuts, etc.** and granules type products as it is efficient machine for preparation of various types of snacks foods, premix, energy health foods fortified nutritious foods, baby foods, fast moving consumer goods etc. **Industrial Seeds Roasting Machine** features include support process requirements of roasting and reduction of moisture content and it meets demands of enhancing the shelf life while maintaining the constant temperature with auto-temperature setting allowing for homogenous mixing.



Applications of Roaster Machine

Abrasives	Flours	Powders	Detergents	Pet Foods
Agro Chemicals	Fungicide Treatments	Salts	Dhokla Premix	Pesticides
Animal Feed	Gulab Jamun Premix	Snacks	Explosives	Pickles
Cereals	Idli Premix	Spices	Fertilizers	Pharmaceutical
Coating	Mouth Freshners	Soybeans	Fish Foods	Polymer Chips
Chemicals	Oleoresins	Soup Premix	Starch	Sugar
Talcum Powders	Upma Premix	Vitamins		



At Fans Bro Erectors, we have manufactured and supplied our machines to numerous reputed organizations all over India like:

- MTR Foods – Bangalore.
- ITC Ltd., CFTRI – Mysore.
- Suruchi Spices, Bhojwani Foods Saoji Masala – Nagpur.
- Everest masala – Mumbai /Umbergaon.
- VKL seasonings, Synthite Eastern Masala – Kerala.
- NILON, MERICO JAIN FOOD PARK NAVALPRABHA FOODS – Jalgaon.
- GOLDEE Spices, INDISH MASALE – Kanpur.
- HALDIRAM snacks – Noida, Nagpur.
- BAMBINO, Ganesh Grains Surya Masale, Telugu Pickles – Hyderabad.
- PRIYA FOODS – Vijayawada.
- FUTURE CONSUMERS – Mumbai / Tumkur / Sonipat / Indore.
- Dave / Lala / Agrawal Masale – Indore.

We have manufactured and exported our machines to numerous reputed organizations worldwide like:

- Veena Foods – USA.
- Sun Spices / Pappadew International – South Africa.
- Windsor Foods / Datar n Sons – UAE.
- Spicing lives / Lanka spices (Macronic) / Lanka Dairy – Sri Lanka.
- Adcon Services – Nigeria.
- Cast alloys – Philippines.
- Chief brand- Trinidad & Tobago.
- Lazzat – Mauritius.
- Bhatbhatni food product/ Pathibrata life care, Himalayan Tea – Nepal.



Why Us?

We offer the most qualitative products and services. Extending our services in the international arena, we stand apart from the other competitors as we have:

- Rich industrial experience of more than 45 years.
- Strong foothold in the Food **Processing Industry**.
- Ethical and valued business operations.
- High quality **Food Processing Industry** products.

Since 1975, Fans Bro Erectors, has become one of the most trusted and quality-driven manufacturers, exporters and suppliers of Industrial Roasting Machines, Industrial Screw Conveyor Machines, Industrial Cooling Blender Machines, Industrial Ribbon Blender Machines, Industrial Spice Roasting Machines, Grain Roasting Machines, Cereals Roasting Machines, Pulses / Dal Roasting Machines, Flour Roasting Machines, Seeds Roasting Machines, Dry Fruit / Nuts Roasting Machines.

Technical Details For Roaster Machine

Name of equipment	Roaster machine
Volumetric Capacity	2500 Ltrs. (Approx. 1000 Kg.)
Product Density	0.5 – Free flowing Semolina type food products
Ribbons	Double helical type, with Side scraper
Standard Mode	Contact Parts: Stainless Steel 304 Non-contact Parts: Mild Steel
Finish	Internal: Hygienic finish for all inner contact parts External: Painted with 2 coats of epoxy base primer followed by 2 coats of Enamel paint.
Top cover	Single piece, conical shape sliding type suitable for fume Extraction system
Feeding	8" NB on top cover through Screw conveyor
Outlet	Centrally located bottom discharge, hand operated sliding type plate valve
Discharge	At 600 – 650 mm from ground
Electrical Power	A.C, 440 Volts Three Phase 50 Hz. 4 Wire at single point near machine
Electric Motor	TEFC, Non flame proof, Foot mounted, 1440 rpm, suitable capacity of "HINDUSTAN" make
Gear Box	Suitable capacity foot mounted, Worm Reduction / Inline Helical type of KISKO make
Drive unit	Enclosed in Mild Steel fabricated enclosure



Control panel	Powder coated fabricated out of 18 swg. Mild Steel Sheet
Accessories for control	Power indicator lamps, Motor 'ON-OFF' switch, Start Delta Starter, Reverse – Forward Switch, overload relay, Volt – Amps Meter etc. as per our standard Practice
Heating system	Electrical oil heating system using Oil immersed electric heaters with Thermic fluid oil as medium.
Heating jacket	Fabricated out of 6 mm thick Mild Steel plate with proper reinforcement
Insulation	75 mm thick Mineral wool insulation
Cladding	Mild Steel 18 swg. Sheet
Optional attachment	
Inspection cum cleaning Platform	Inspection platforms are fabricated in Mild Steel tubular structure with ladder railing, toe guard, and Aluminium chequered plate as per model selected by the customer.
Pneumatically operated knife edge gate valve	Centrally located bottom discharge pneumatically operated 6" NB Knife edge gate valve (EEE make) using pulse type solenoid valve for system atomization, suitable for paste type products & can be used for holding liquid at high temperature while container cleaning.
Safety Grating	The Safety grating shall be fabricated from Stainless Steel 304 grade flat and rods, with grit size 90 mm x 90 mm fitted with a bolting arrangement inside the machine container, with a limit switch having interlock with the machine drive system. i.e. if anyone opens the grating in running condition the motor will stop automatically
Fume extraction system	Fume extraction system consists of a conical top cover along with a 1.0 HP Blower mounted on a cover with an intermediate male female type sliding pipe/duct. The cover will be fabricated out of Stainless Steel 18 swg. Sheet. The flanges for fume extraction system shall be of dairy fittings e for easy handling
Note	Please note that keeping the heating system 'OFF' the Roaster machine can be used as a Ribbon blender for blending / Mixing various products as per your requirements
	The Electrical control panels will be mounted on the machines, and machines will be supplied in ready to start conditions.

Standard Sizes For Roaster Machine

22 Ltrs.	340 Ltrs.	1200 Ltrs.	4400 Ltrs.
75 Ltrs.	500 Ltrs.	1500 Ltrs.	5000 Ltrs.
125 Ltrs.	750 Ltrs.	2200 Ltrs.	8800 Ltrs.
240 Ltrs.	1000 Ltrs.	3500 Ltrs.	10000 Ltrs.



Exclusions

- 1) Any Civil, Structural, Electrical, Instrumental work required for system at site.
- 2) Supply and Installation of Utility equipment required for the system.
- 3) Electrical cables to our battery limits.
- 4) Fuel required to run the Heating system.
- 5) Any other work not specifically mentioned in our scope of supply.
- 6) The Input electrical connection at machines control panel, Air for pneumatic valves, make up the water connection point up to the cooling tower.
- 7) The internal electrical cable wiring from machine panel to machine drive unit / components required for the system will be provided by the supplier, considering installation of panels on the equipment.
- 8) The Supply and installation of discharge duct, from discharge point on fume extraction system is to be arranged by Purchaser.
- 9) Electrical cabling wiring to cooling tower blower along with flexible conduit pipe up to electrical control the panel installed on the machine is to be arranged by the purchaser.
- 10) Transportation, unloading, de crating, shifting, positioning, & Installation of various equipment / fabricated goods supplied by the supplier at their actual locations shall be arranged by the Purchaser.
- 11) The Provision of lift along with accessories for shifting the raw material to the top most floor of structural platform for storage shall be arranged by the Purchaser.
- 12) Regarding CIP system, customer shall provide more details, and exact technical requirement to clear the matter.
- 13) The costing towards extra works, mentioned in Exclusions will be quoted once we visit the site, and at the time of finalization of offer, as per your requirements



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