



RICE PROCESSING TECHNOLOGY



An ISO: 9001-2008 Certified Company
Gov. Certified Export House

www.marcoblowers.co.in



The Company

In the year 1977, the late Mr. J.G. Manglani, a technocrat trained in the line of heating, ventilating and air conditioning technology founded MARCO BLOWERS (INDIA) PRIVATE LTD at Kolkata.

The company at that time was mainly engaged in the manufacture of centrifugal as well as axial flow fans, air washers and automatic viscous air filters. The company mainly catered to the major engineering behemoths like SAIL, TISCO, TELCO, BHEL, NALCO and many more.

With the passage of time the company diversified in to the agricultural sector and started serving the rice and tea industry in India.

We started with changing the blower for the LSU drier from single to double inlet and brought the power consumption down by more than half.

Subsequently we were the first to bring the aluminium extruded finned tube heat exchangers to the rice industry in India. These high efficiency heat exchangers brought down the steam consumption as well as drying time in the industry leading to huge savings in husk as well as electricity consumption.

Today we sell more than 500 blowers and more than 300 heat exchangers annually.

We started manufacturing LSU type paddy driers in the year 2009 and today have more than 200 installations in India, Bangladesh, Pakistan and Sri Lanka.

What started as a tiny unit is now a government recognized export house as well as an ISO:9001-2008 unit.



Infrastructure

We are equipped with world class, state of the art machinery to enable us to manufacture world class products at very reasonable prices. Our factory located at Maheshtalla in Kolkata is delivering cutting-edge solutions to the agricultural industry since many years. Our solutions are earmarked with characteristic efficiency, quality and reliability that have become the cornerstone of our products. Not surprisingly, the brand **MARCO** has become synonymous with engineering excellence and reliable performance.

Cutting-edge expertise and domain knowledge come together with rich experience at **MARCO**, resulting in highest standards of quality. Our state of the art infrastructure and world class technology ensures that when it comes to delivering performance, we don't leave any stone unturned.

MARCO presents an extensive range of products created exclusively for the rice industry. Designed to deliver performance, these machines cater to every requirement in the rice industry.

The range includes LSU type paddy driers, blowers for driers, finned tube heat ex-changers, paddy elevators, parboiling plants, rice elevators, cyclones, rotary air lock valves, rice elevators, induced draught fans for the milling section, induced and forced draught fans for boilers etc. each of our products is designed to ensure efficiency and reliability. Our unmatched expertise and experience in the agricultural domain means that each machine is designed to add value at every stage of production of the rice mill.



In our pursuit to deliver a world class product manufactured efficiently, accurately at the same time economically we have recently added a turret punch manufactured by TRUMPF of Germany and a CNC operated 150 ton press brake.



Services

We offer you services from the conceptual stage to commissioning of your mill. Our relationship starts with you at the stage when you have freehold land and the will to own a rice mill. Our design team will help you in the layout of your rice mill, provide your civil engineers with all load data to design the foundation of our machinery and also supervise the construction of the foundation.

Our factory is equipped with the following machines to give you an end product which is state of the art:

- CNC TURRET PUNCH.
- CNC PRESS BRAKE.
- SHEARING MACHINES.
- HYDRALIC PRESSES.
- PLASMA CUTTING MACHINES.
- PLATE BENDING MACHINES.
- TIG AND MIG WELDING MACHINES.
- LATHES, MILLING AND SHAPING MACHINES.
- HYRAULIC MACHINE FOR STRAIGHTENING OF ISMB AND ISMC SECTIONS.

After the machine is manufactured we have sand blasting facility to ensure that all the parts of the machine are properly de-rusted before they are painted. For smaller machines we have a powder coating plant to ensure complete rust removal and at the same time an extremely attractive finish.

We are also equipped with material handling facility, such as four EOT cranes for handling during the manufacturing process and a 12T capacity HYDRA for unloading of raw materials and loading of the finished product.

After our machines are manufactured, they undergo stringent quality control tests to ensure trouble free service. Some of the machines available for in house testing are:

- DYNAMIC BALANCING MACHINE
- HYDRALIC TESTING FOR HEAT EX-CHANGERS
- DYE PENETRATION TEST FOR WELDING

Our commitment to our customer does not end with delivery of a quality machine. Our service team is available 24 X 7 to ensure that our customer can use our machines trouble free with minimum downtime.

Tirupati Basmati Exports Pvt. Ltd.

Taraori, Haryana, INDIA



Stainless Steel Plant For Basmati Rice

- ❑ 100% Stainless steel plant, also available in mild steel.
- ❑ Maintenance free.
- ❑ Most suitable for basmati rice.
- ❑ Long lasting, super efficient heat ex-changer.
- ❑ Inter-changeable panel type construction.
- ❑ Entirely manufactured on CNC turret punch.



3 STAGE PARBOILING PLANT FOR BASMATI RICE



3 X 24 TON BASMATI PLANT



3 X 24 Ton Per Batch Driers With 72 Ton Per Batch



Parboiling Plant At Chapai Nawabganj , Bangladesh



1 X 24 TON THREE STAGE PLANT



1 X 24 TON THREE STAGE PLANT



1 X 24 TON THREE STAGE PLANT



2 X 24 TON THREE STAGE PLANT



2 X 24 TON THREE STAGE PLANT



3 X 24 TON THREE STAGE PLANT



2 X 24 TON SINGLE STAGE PLANT

Single Stage Parboiling Plant

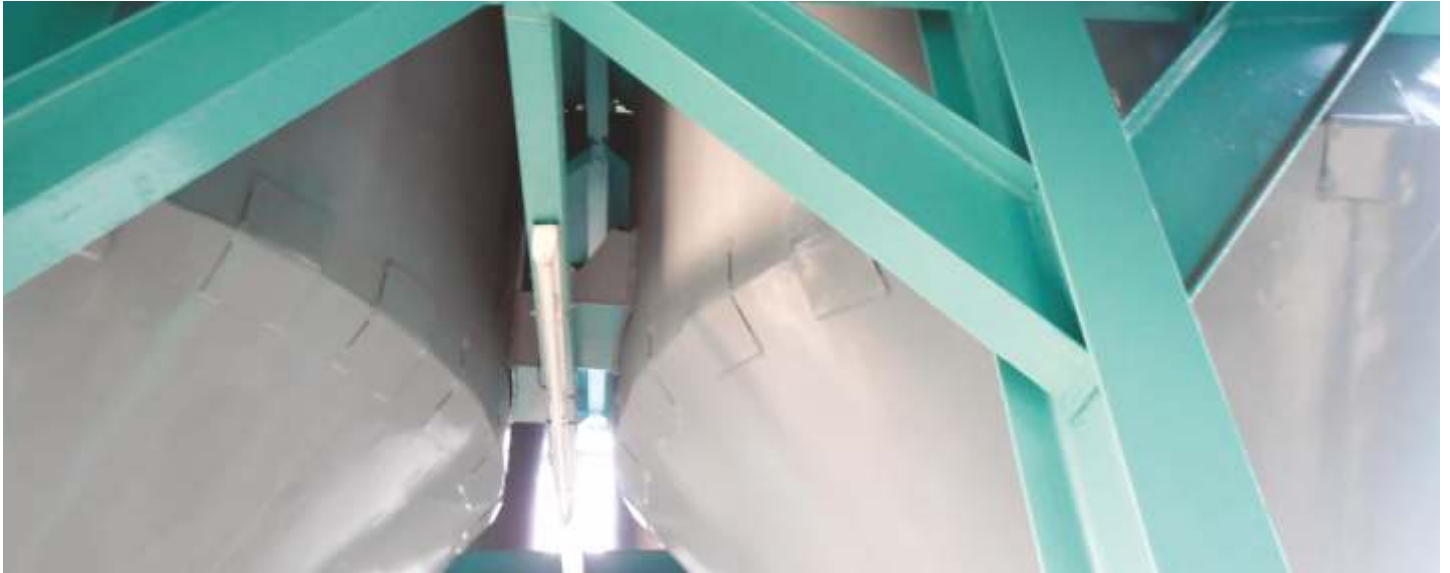


Conveyor



- ❑ Scientifically designed.
- ❑ Incorporates FAG/SKF/NBC bearings.
- ❑ Head pulley incorporates anti-skid rubber lining.
- ❑ Geared motor for easy operation.
- ❑ Heavy duty mounting frame.
- ❑ Fully skirted to eliminate spillage.
- ❑ No counter shafts are used.
- ❑ Speed controllers provided at extra cost.
- ❑ Heat resistant four ply endless type rubber belts are provided.

Structural Support



- ❑ Heavy ISMB sections used.
- ❑ Sand blasted before anti corrosive treatment.
- ❑ Stable, sturdy and correctly engineered.
- ❑ Scientifically designed to distribute the load equally.
- ❑ Long life due to heavy duty design.

Discharge Valve For Soaking Tanks



- ❑ Anti corrosive cast iron design.
- ❑ Stainless steel discharge mechanism.
- ❑ Arrangement for leak proof tightening.
- ❑ Heavy construction.
- ❑ Stainless steel strainer plate.

Paddy Silo



- ❑ Available in both stainless steel and mild steel.
- ❑ Designed for optimum aspiration of paddy.
- ❑ Modular, panel type design.
- ❑ Heavy construction.
- ❑ Bolted type construction.
- ❑ Easy bagging.
- ❑ Entry for birds is not possible.

Length Grader



Finned Tube Heat Exchanger



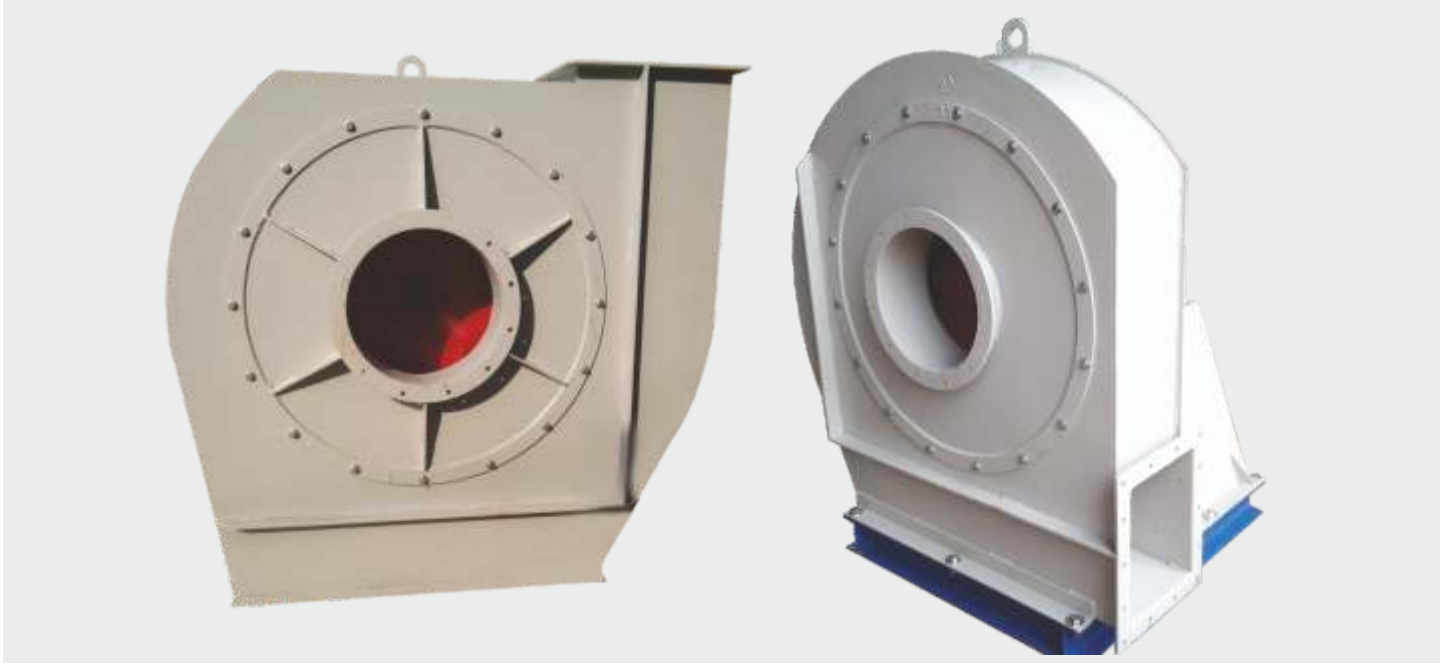
- ❑ 30% savings in steam consumption
- ❑ Lesser number of tubes with larger heat transfer area results in 20% savings in blower power
- ❑ Split type design for easy cleaning.
- ❑ Uses only boiler quality seamless tubes
- ❑ Uses aluminium extruded finned tubes.
- ❑ Maintenance free.

Double Inlet Centrifugal Blower



- ❑ Low power Consumption.
- ❑ Conforms to BS-848
- ❑ Heavy gauge sheet steel construction.
- ❑ Dynamically Balanced.
- ❑ Heavy duty double row roller bearings used.
- ❑ Epoxy powder coated. (At extra cost)
- ❑ Almost noiseless.

Milling Section Fan



Air Lock Valve



Stainless Steel Cyclone Separator



Pneumatic Slide Gate



Bucket Elevator



Spares



Bucket



Elevator Cotton Belt



Elevator & Conveyor Belt



Paddy Cleaner

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