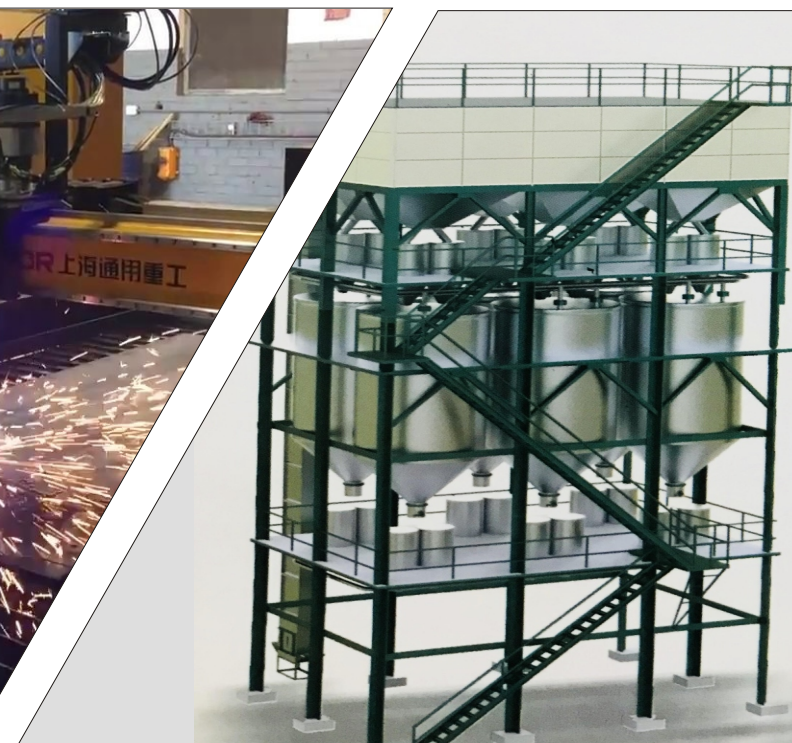




G.S. INTERNATIONAL

“MANUFACTURING RELATIONSHIPS, DISTRIBUTING QUALITY”



Manufacturer of

/ Paddy Parboiling Plants

/ Paddy Steaming Plants

/ Paddy Drier Plants

/ Rice Mill Plants

/ Biomass Gasifier



An ISO 9001:2008 Certified Company

ABOUT US

G.S. International is the ultimate destination where you can avail all type of Rice Machines. The company is actively engaged in the Manufacturing, Supplying and Exporting of Rice Machines like Rice Processing Plant, Automatic Rice Mill Plant and many more. The company established in 1970 by S. Hari Singh Bhullar. Who comes in industrial sector 1968 and Now their sons S. Gurjeet Singh and Prabhjot Singh successfully business installed by them G.S. International is the manufacturers of Rice Mills and parboiling & Drying Plants sight performance and standardized parts.

G.S. International is the first manufacturer of Rice Mills on engineered approach, comprehensive planning right performance and standardised parts. We have an option to start feed paddy from right hand or from left hand. Uncleaned paddy which has metallic objects, stones or any other impurity is cleaned by the preliminary, pneumatic and cyclonised paddy cleaner. Cleaned paddy is fed in an overhead paddy bin, which distributes it into rubber roll dehuskers and is shelled upto 90% – 95%. We depute our engineers to visit our supplied machinery, After putting the mill in operation 2/3 times with in warranty period and generally every year to know and remove any difficulty.

G.S. International installed more than 1250 plants and that plants are running successfully all over India and abroad every machine is planned, fabricated and manufactured in different sections.

G.S. International is backed by an experience of about 35 years by the engineer founder and excellent experienced staff. The old mother machine are always replaced by modernised one's from time to time.

G.S. International gives national products of international standards. G.S. International Is approved by the PUNJAB STATE COUNCIL FOR SCIENCE AND TECHNOLOGY.

G.S. International is a well established brand in India and the most trusted in the states of Punjab, Haryana, Jammu, Assam, Panipat, Sonipat, Chhattisgarh, Delhi, Karnal, Gurgaon, Kolkata and Bangalore. The fame of our company doesn't end here, G.S has excelled in Nepal, Bangladesh and Pakistan for its quality and customer care.

Paddy Parboiling Plant

Capacity

18, 20, 24 & 32 tonnes per batch (one drier)

Paddy Parboiling & Drying Plant. Application: Parboiling of paddy as name states is a hydrothermal process in which the starch granules within rice grain is gelatinized by the application of steam & hot water .



Paddy Parboiling Plant Features

- ✓ Batch system, open tank without pressure
- ✓ Batch system, open tank with pressure
- ✓ Continuous pressure cooking system in vertical cooker or horizontal belt cooker
- ✓ Brown rice parboiling
- ✓ Laboratory parboiling system for research and test run
- ✓ Low energy consumption due to efficient design of blowers & elevators
- ✓ Higher percentage of recovery of rice .
- ✓ Uniform steaming of paddy made possible by steam distribution system in tanks .

Paddy Drier Plant

Capacity

288 tonnes per batch

Paddy Drying. Drying is the process that reduces grain moisture content to a safe level for storage. Drying is the most critical operation after harvesting the rice crop. Proper. Drying will maintain grain quality and In this practice, often referred to as field drying, the rice plants are often stacked in piles with the panicles ...



Paddy Drier Plant Features

- ✓ 16 to 50 tons capacity. Continuous flow mechanical type.
- ✓ Extra heavy duty chamber & frame. Easily replaceable ziks.
- ✓ Less broken of paddy in drying time.
- ✓ Does not affect weather conditions.
- ✓ Very low labour & power consumption.
- ✓ Stainless Steel Parts (Optional) available
- ✓ Elevator: Heavy duty two way bucket elevator specially designed for continuous duty.
- ✓ Bins: Designed for maximum storage and smooth out flow.

Paddy Steaming Plant

Capacity

18 to 24 tonnes per batch (one drier)

Paddy Steaming Plant Features

- ✓ Our Organization manufacture Steam Rice Plant.* "Aged" of "Seasoned" rice – stored for 10–12 months.
- ✓ Change in cooking quality and taste.
- ✓ Cooking quality, colour and taste as "aged rice".



Rice Colour Sorter Plant

A Rice Color Sorting Plant, also named Rice Colour Sorter, or Rice Color Sorter, Separates Rice grains according to color differences in raw rice arising from anomalies like bits of stone, bad rice, black rice, half husked rice etc. A high resolution CCD optical sensor drives a mechanical sorter to separate different granular materials, automatically sorting chromatic particles out of the batch of raw rice ; removing such impurities in this process improves the quality of the rice.

Biomass Gasifier

G.S. International has successfully gasified a number of different biomasses :

- ✓ Wood / Bamboo Pieces or Chips.
- ✓ Nut Shells like Coconut, Peanut, Almond, Brazil Nut, Macadamia etc.
- ✓ Rice Husk and Rice Straw (used without briquetting)
- ✓ Agri Residues (threshed / briquetted) like Mustard, Cotton, Soya Bean Stalk, Soya Bean Husk, Sunflower Hulls.
- ✓ Cow Manure & Chicken Manure.



Rice Mill Plant

Complete Rice Mill Plant – Most popular for Rigid Constructed Chassis – Frame, made of ISI marked and vertical angles etc, With accurate workmanship, the highest output with minimum power consumption and lowest maintenance expenses. Because these mills are manufactured from best quality and seasoned raw material under the strict supervision of highly qualified Engineers to give trouble free service for life time period. Manufactured in various sizes and both hand start i.e, "Left or Right" as per customer's building situation.

Paddy Pre Cleaner

Capacity

5 to 15 tonnes per hour Size : 8'x 4'

- ✓ Pre Cleaner features a three sieve system.
- ✓ Sieve system with an individual sieve slope for optimum separation on each screen.
- ✓ An inlet feed roller to feed over the entire working width of the machine.
- ✓ It is fixed and of variable drive to suit specific requirement and driven by 7.5 HP motor.



Paddy Separator

- ✓ All steel designed.
- ✓ New design of feeding through direct drop channels with large cross sectional and uniform loading of the individual compartments .
- ✓ Precise longitudinal table guide insuring smooth running .
- ✓ 3 point stroke adjustment .
- ✓ Atomized with latest technology for operation , no manual adjustments done .



Paddy Drier and Steam Heat Exchanger

- ✓ Easy maintenance.
 - ✓ Folding System.
 - ✓ Long life and regular high Efficiency.
 - ✓ No need to replace total heater in case of leak, change only damaged plate.
 - ✓ Both fixed as well as split type construction
 - ✓ 6.5 fins/inch for larger heat transfer area Achieve 120o C to 140o C
 - ✓ Easy to maintain and clean made of SS tubes with aluminium fins , copper tubes and mild steel or a combination of these four.
- 25 to 30% Less Steam Consumption



Paddy Drier Power Efficient Blower

- ✓ Low power consumption 50% . Save Electricity Energy
- ✓ Aero dynamically balance Impeller.
- ✓ Aluminium Impeller
- ✓ Superior Bearing for long life & noise free operation.
- ✓ Aero Dynamic Centrifugal Double Impeller blower
- ✓ Fan made of aluminium and Mild steel
- ✓ Very low starting torque with aluminium rotors
- ✓ Fan efficiency up to 80% power saving up to 40%
- ✓ Static pressures up to 200 mm (8 inches gauge) and suitable CFM

Rice Grader

Rice Grader: A Large indented screen for a higher Throughout, an inbuilt self - clean mechanism to assure optimum separation makes this machine the best in it's class. This machine can be used for Broken rice separation as well as length separation & Basmati Rice.

- ✓ Easy to operation.
- ✓ High Production.
- ✓ Accurate & efficient separation of grains.
- ✓ Compact size.
- ✓ Higher Efficiency as compare to other graders.
- ✓



Silky Rice Polisher

- ✓ A higher qualities of cleaned products
- ✓ Higher Commercial Value
- ✓ Longer Storage Life
- ✓ Generator less broken
- ✓ Overdrived rice will gain weight after shining/Conditioning
- ✓ Lower Power requirement
- ✓ Compact Design, Easy to operate & maintain.

Vertical Rice Whitener

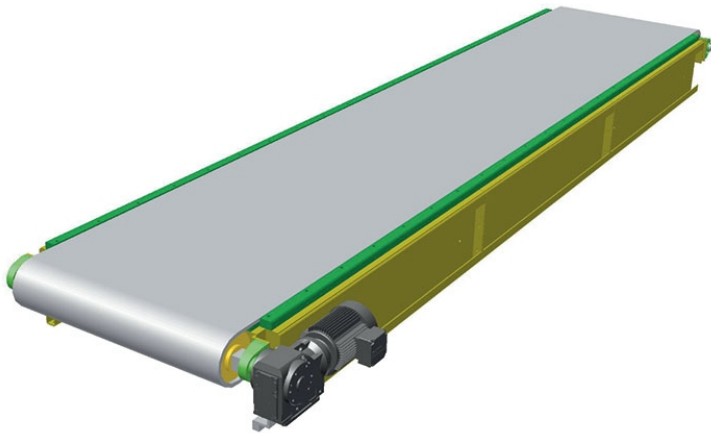
GSRM Vertical Rice Whitener GSRM -50 is introduced to provide solutions to today's increasing demand of whiteness and higher yield so that rice of international quality is produced. A fully automatic operation ensures uniform pressure in the milling chamber, resulting in lesser power per ton and fewer broken grains in the final product.

- ✓ High degree of whiteness
- ✓ Compact design
- ✓ Minimum residue inside machine
- ✓ Uniform whiteness



Belt Conveyor

- ✓ Conveying of grain, oilseeds, and derivatives.
- ✓ Throughput capacity up to 2000 metric tons per hour.
- ✓ Application in bulk storage facilities and port terminals.
- ✓ Open, enclosed, or roofed design versions.
- ✓ 300 mm width up to 1220 mm wide
- ✓ Flat / Troughed / Side walled / Cleated with Rubber /
- ✓ polyester belt and capacity up to 150 TPH for bulk materials.

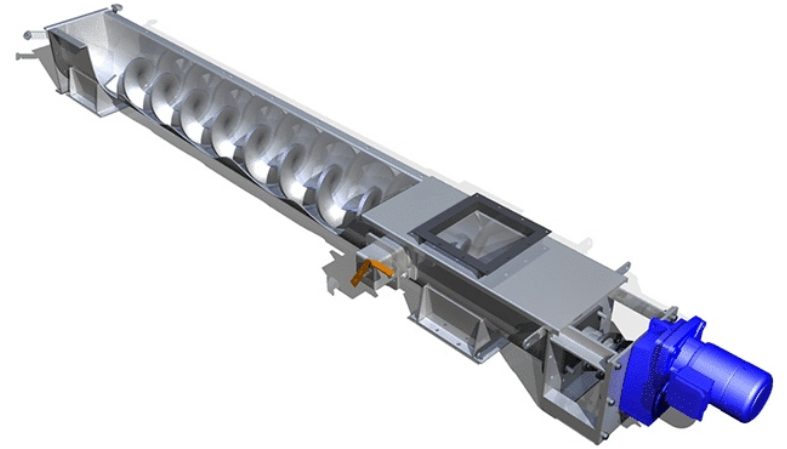


Screw Conveyor

Power Consumption : 1 H.P. to 7.5 H.P.

Capacity : 700 Kgs to 6000 Kgs per hour

Spiral conveyor adapts international standard products. It has advanced technical data, new designed structure, better sealing, stronger abrasive resistance, lower resistance, lasts longer. Spiral conveyor is used for deliver goods in powder, grainy and lumpy shapes. It is widely used in the industrial department.



Abrasive Cone Polisher

Abrasive Cone Polisher Most successful, popular and efficient machine to remove greyish and reddish layer from rice with the least breakage and highest output. The latest model and modified design. Rigid construction guaranteed trouble free life long service due to TAPER ROLL BEARINGS in Neck with dust protection oil seals and interchangeability in cone and bran cages.

Destoner

The G.S.I Destoner is applied for the efficient separation of stones and metal, glass, and other high-density impurities from a stream of grain. Its throughput capacity varies as a function of the specific product and its degree of contamination: The throughput for common wheat is up to 22 t/h, for durum wheat up to 14.5 t/h, and for corn (maize) up to 16.5 t/h. In addition to the grain varieties mentioned, the Destoner is also used for processing rice, and soybeans. High separating efficiency – excellent grain cleaning.



Centrifugal Bran Cleaner

Centrifugal bran cleaners are used to separate out broken rice from the bran coming out of polishers/whiteners and hence, increasing the bran oil percentage. It finds its efficient application in Rice Mills having capacity of more than 1MT/Hr

- ✓ Efficient Bran cleaning
- ✓ Robust construction
- ✓ User friendly
- ✓ Provided with inner fan to ensure sieve cleaning.

Chain Conveyor

A chain conveyor is a type of conveyor system for moving material through production lines. Chain conveyors utilize a powered continuous chain arrangement, carrying a series of single pendants. The chain arrangement is driven by a motor, and the material suspended on the pendants are conveyed. Chain conveyors are used for moving products down an assembly line and/or around a manufacturing or warehousing facility. Chain conveyors are primarily used to transport heavy unit loads, e.g. pallets, grid boxes, and industrial containers.



Medicine Grinding Machine

Grinding machines remove material from the workpiece by abrasion. This process can generate substantial amounts of heat. A coolant to cool the workpiece is incorporated to alleviate overheating or being out-of-tolerance. The coolant also benefits the machinist as the heat generated in some cases may cause burns. In very high-precision grinding machines (most cylindrical and surface grinders), the final grinding stages are usually setup so that they remove about $2/10000\text{ mm}$ (less than $1/100000\text{ in}$) per pass

CNC Bucket Elevator

- ✓ Easy maintainance.
- ✓ Folding System.
- ✓ Long life and regular high Efficiency.
- ✓ No need to replace total heater in case of leak, change only damaged plate.
- ✓ Both fixed as well as split type construction
- ✓ 6.5 fins/inch for larger heat transfer area Achieve 120o C to 140o C
- ✓ Easy to maintain and clean made of SS tubes with aluminium fins , copper tubes and mild steel or a combination of these four.
- ✓ 25 to 30% Less Steam Consumption



Pneumatic Husker

Our Pneumatic Husker is a highly efficient and latest machine used for husking process of paddy automatically with lesser rate of broken of rice and increases the life of rubber rolls. The machine runs on pneumatic mechanism which helps to avoid its idle running when paddy is not flowing into dehusking chamber and both the rollers get disengaged.

- ✓ Rugged design
- ✓ Easy maintenance
- ✓ High performance
- ✓ Simple operation

Husk Furnace Machine

Right now the rice husk furnace has been widely used in rice drying centers and rice mills with rice drying facilities. The main advantage for these businesses was that before the rice husk is being considered as a major production waste side product in polished rice processing process before. Now they can convert the produced waste to become valuable energy resource. In other words, they produce their own drying fuel and don't need to worry about the problem of rice husk treatment anymore. The rice husk is used to replace the drying fuel in many rice drying centers, which can save tremendous costs of drying fuel and rice husk disposal.



The technologies of rice husk furnace used for drying wet paddy emphasize two key points. One is how to generate enough heat smoothly, and the other is how to deliver the heat into the dryer or drying facilities properly. In the past, the exhausted air from a husk furnace without a heat exchanger has been directly used in a drying process. The furnace structure for this application is simple, but it also causes some serious problems. The exhausted air contains high amount of tar, which will contaminate the rice and corrode ventilation pipeline and the rest of units, whatever will contact the exhausted air. The exhausted air is also full of combusted dust, which will not only pollute the environment but also affect the efficiency of a drying process and devalue the product. So currently most rice husk furnace manufactures employ the heat exchanger to improve the situation.

The role of heat exchanger is to convey the heat from exhausted air to clean fresh air.

- 1.G.S.I rice husk furnace uses rice husk as fuel. Low cost and highly competitive in high oil price era.
- 2.G.S.I rice husk furnace is the only computer control husk furnace in the world, having patents in Japan, USA and many more countries.
- 3.PLC auto control of husk feeding, air volume, ash discharging. Hot air temperature difference $\pm 1^\circ\text{C}$.
- 4.G.S.I husk furnace can attach one to multiple dryers with different temperature settings. Easy control panel design makes operation and management easy. No professional operator is required. One person can run the whole drying center.

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CNC Sharing Machine



Laser Cutting Machine



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