



NEXT GEN INNOVATION

Powered By



Vaibhav
Steel

Steel Range you can think of



i5.0_{PS}

NEX GEN AUTOMATION
Paddy Processing Plants

NEX GEN AUTOMATION AI CONTROL OVERVIEW



VIGYAN PADDY INTAKE & PRE-CLEANING

- AI Vision Sensors - Real Time Quality Gate Identify Complex Impurities And Grain Variations.



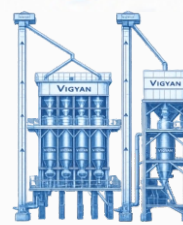
VIGYAN PADDY FLOW TRACKING

- PLC Based Automation - Receive Real Time And Actual Value Of Paddy Flow.



VIGYAN PADDY STORAGE SILO

- PLC Based Automation- Prevent Overflow And Manage Inventory.



VIGYAN SOAKING & HYDROTHERMAL PARBOILED PROCESS

- **SOAKING**
 - Vigyan Steam Charger For Instant Hot Water
 - Automised Water Circulation, Discharge And Intake

STEAM & GELATINIZATION

- Auto Steam Control
- Uniform Color
- Uniform Cooking Quality
- Fuel Saving
- Minimal Power Consumption
- Reduce Human Error
- Auto Discharge And Intake Paddy



VIGYAN NEX GEN SUPER MIX FLOW DRYER

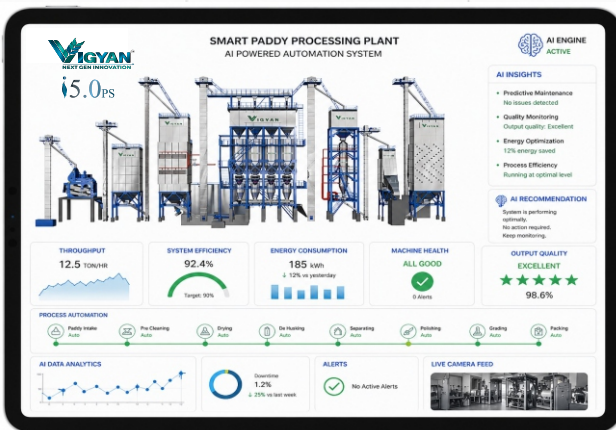
- **HYBRID AIR FLOW SENSORS**
 - Auto Control Temperature
 - Uniform Exposure
 - VFD Control Air Flow
 - Lower Broken

AI DRIVEN MOISTURE SENSORS

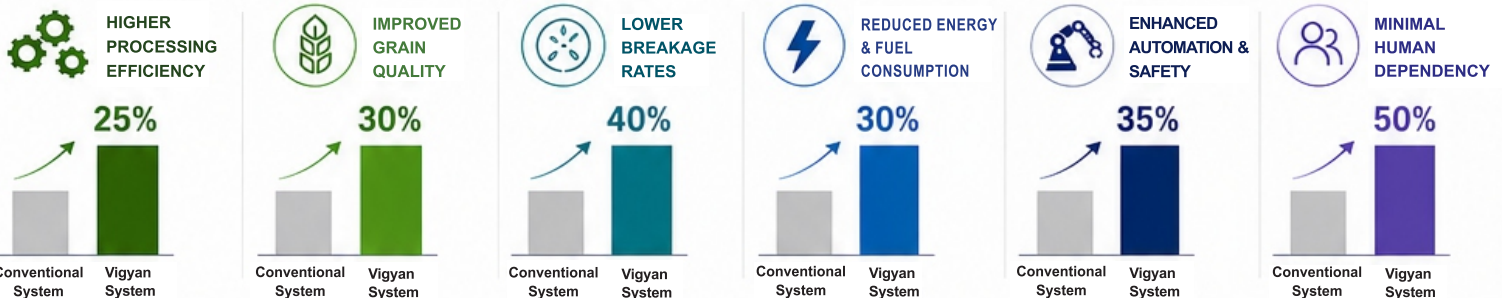
- Real Time Interface
- Adaptive Discharge
- Control On Moisture To Prevent From Broken

MULTIPLE STAGE TEMPTING CONTROL

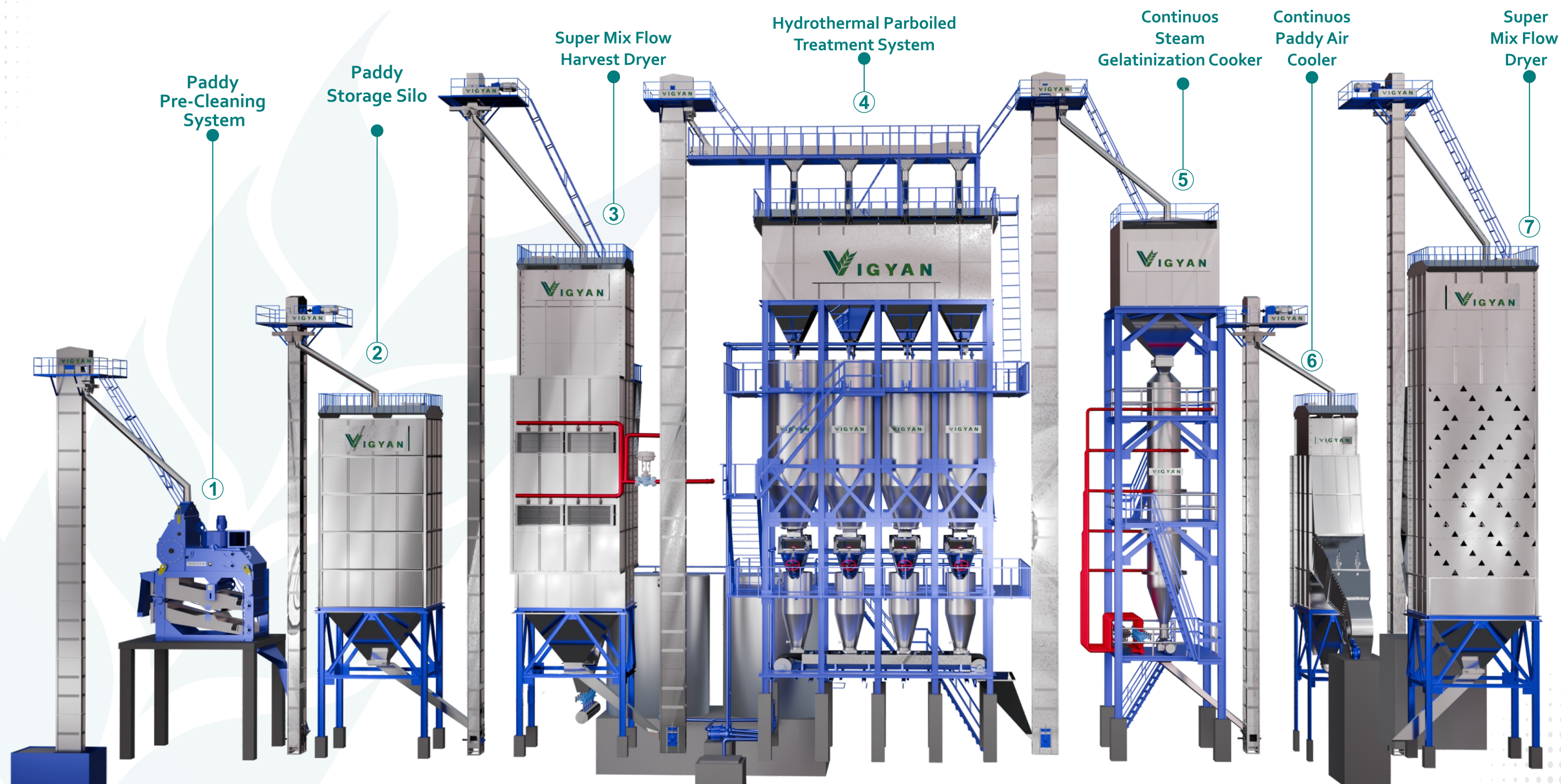
- Automated Cycling
- Energy Efficiency
- VFD Control Air Flow
- Maintenance Alarm Prevention From Accident



KEY BENEFITS



Vigyan SMART Paddy Processing System



Uniform
Colour

Fully
Automated
Controller

Minimal
Power
Consumption

Uniform
Cooking
Quality

Reduces
Human
Error

Vigyan Cyclo Therm Dryer



- Hot Air Cyclonic Furnace Mixed Flow Dryer
- Industrial Chimney Not Required For Hot Flue Gas
- Enhances Heat Transfer Efficiency
- Use Low Cost Fuels
- Maintain Uniform Drying Conditions
- Minimal Power Consumption
- Economic Model
- Strong Air Flow Removes Moisture Quickly From Grain Surface.

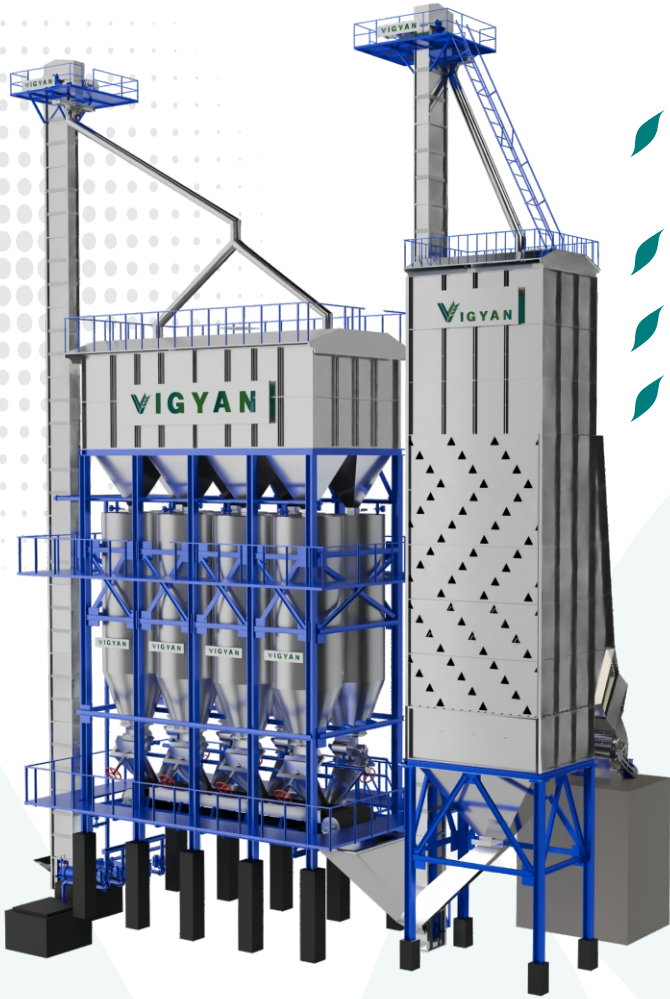
Vigyan Turbo Suction Drying System

- Tapered & Zig Zag Pattern Mix Flow Dryer
- Reduced Breakage Percentage
- Maintenance Free Fully Stainless Steel
- Maintain Uniform Drying Conditions
- Minimal Power Consumption
- Top Suction Blower
- Unique Heat Exchanger Design
- Quick Moisture Removal



Vigyan Thermo Steam System

- ✓ Mix Flow Dryer Provides Rapid Moisture Reduction Ans Uniform Drying
- ✓ Better Color Texture & Nutritional Retention
- ✓ Reduced Broken Percentage
- ✓ Lower Operational Cost Compared To Traditional System



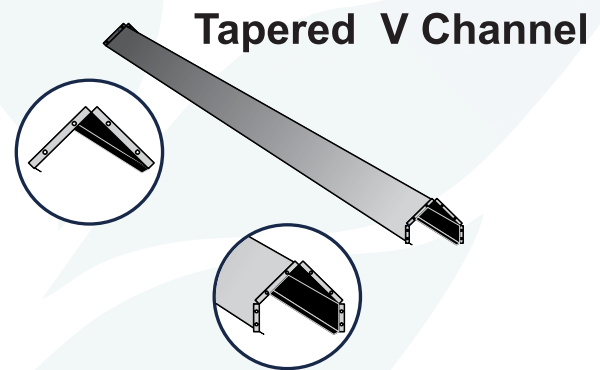
Vigyan AgedPro Paddy Processing System

- ✓ Uniform Gelatinization of paddy
- ✓ Super Aging Process
- ✓ Better color texture & nutritional retention
- ✓ Maintain Uniform Drying Conditions
- ✓ Strong Mix Flow Removes Moisture Quickly From Grain Surface.
- ✓ Reduced broken percentage



Vigyan i-MonoTherm Paddy Processing System

- Parboiling strengthens the grain structure
- Produces consistent golden/yellow rice
- Nutrients from bran layer migrate into the grain
- Lower Operational Cost Compared To Traditional System



Vigyan i-DuoTherm Paddy Processing System

- Reduces chalkiness and white spots
- Retains more vitamins and minerals
- Better color texture & nutritional retention
- Maintain Uniform Drying Conditions
- Strong Mix Flow Removes Moisture Quickly From Grain Surface.
- Minimizes cracks and stress fractures



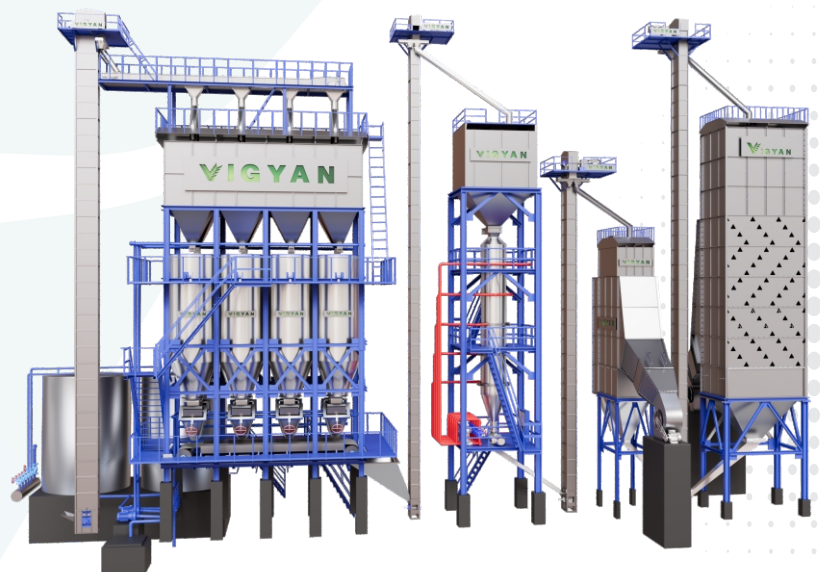


Vigyan i-TriTherm Paddy Processing System

- ✓ Eliminates uneven drying issues
- ✓ Stage-wise steaming allows deep moisture penetration
- ✓ Nutrients from bran layer migrate into the grain
- ✓ Improves performance in dryer section
- ✓ The 3-stage setup allows millers to switch between different rice varieties (Sella, Steam, or Raw) with simple adjustments to the automation settings, providing high market flexibility.

Vigyan Smart GelPro Parboil System

- ✓ Reduces chalkiness and white spots
- ✓ Retains more vitamins and minerals
- ✓ Maintain Uniform Drying Conditions
- ✓ Gelatinized Starch Binds The Grain Structure Tightly.
- ✓ Better Color Texture & Nutritional Retention
- ✓ Minimizes cracks and stress fractures



Product Range



Storage Bunker



Water Tank



Heat Exchanger



Chain Conveyor



Screw Conveyor



Belt Conveyor



Air Blower



S.S Bucket Elevator



S.S Industrial Chimney



Dust Cyclone



Dust Bag Filters



Mechanical Dust Collector

Vigyan Paddy Pre Cleaner

A paddy pre-cleaner, or rice pre-cleaner, is essential equipment in rice mills that removes impurities like dust, straw, sand, and stones from raw paddy before milling, improving rice quality and mill efficiency.

- ✓ Impurities Removal
- ✓ Improved Rice Quality
- ✓ Enhanced Mill Efficiency
- ✓ Increased Rubber Roller Life
- ✓ Reduced Waste
- ✓ Extended Machinery Lifespan





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