MADE IN INDIA

orange®



THE COMPLETE INDIAN TECHNOLOGY

DSIR RECOGNIZED

IS 17854

CM/L - 6500066707

Bureau of Indian Standards

MADE IN INDIA

ROTARY DRUM CLEANER

BULK RAW-PADDY CLEANING MACHINE

Double staged drum sieve mechanism designed to handle to clean Bulk quantity of paddy effortlessly even if contamination is very high. It can be equipped with Aspiration system to remove floating dust, preventing from dust spreading in and around campus.



Model	RDC10	RDC20
Capacity (TPH Paddy)	8 ~ 10	18 ~ 20
Geared Motor (HP)	2	4
Weight (Kg)	920	1900
Dimension LxBxH (Ft, In)	7'1" X 5'0" X 8'1"	7'2" X 12'0" X 8'1"

Note : This content is shown for paddy

FEATURES AND TECHNOLOGY



Drum Sieves
Double Layered Screens for handling high tonnage effortlessly



Built
Heavy Structure built to handle heavy load and long lasting life



RAW PADDY PRE CLEANER

LARGE IMPURITIES REMOVER

Pre-Cleaner is one of the robust built machines which is used to separate the harvested paddy from lot unwanted products such as Hay, Big Stones, Mud balls, Unwanted Soil etc. It works by using traditional methods to get our output in an efficient and effective way.





FEATURES AND TECHNOLOGY



Built-in Features
Inbuilt fan, firm drive Feed controller and motors are used



Rubber Balls
More resilient and elastic rubber is used for high-quality output



Feed Control Gate
For uniform distribution causing less wear and tear



Easy Maintenance
Constructed in a way where screens can be replaced effortlessly

Model	PPC 10 (Single Deck)	PPC 20 (Double Deck)
Capacity (TPH)	8 ~ 10	15 ~ 20
Motor (HP)	2	2
Weight (~Kg)	1600	1940
Dimension LxBxH (Ft, In)	9'10" x 6'2" x 9'6"	9'10" x 6'2" x 10'6"

Note : This content is shown for paddy

VIBRO PADDY CLASSIFIER

DUST AND SMALL IMPURITIES REMOVER



VPC



VPA



VPR

Used for removing Oversized & Undersized impurities from grain. With an inbuilt aspiration system, the dust accumulated in grain is drastically controlled.

INPUT



Paddy

OUTPUT



Paddy Dust

FEATURES AND TECHNOLOGY



Sieves
Dual layer sieves gives high separating efficiency



Aspiration Chamber
Fine dust carried with Paddy is completely removed



Vibro Motors
Combinations of two motors are used for even vibration distribution



Multi Stage Output
The machine gives 3 types of different output effortlessly (stone, Dust, Paddy)

	Vibro Paddy Cleaner		Vibro Paddy Classifier With Aspirator		Vibro Paddy Classifier With Rotary Cleaner	
Model	**VPC08**	**VPA08**	**VPR08**	**VPC10**	**VPA10**	**VPR10**
Capacity (TPH Paddy)	6 to 8	6 to 8	6 to 8	8 to 10	8 to 10	8 to 10
Vibro Motor Power (HP)	0.5 HP x 2	0.5 HP x 2	0.5 HP x 2	1 HP x 2	1 HP x 2	1 HP x 2
Geared Motor (HP)	-	1 HP	1 HP	-	1 HP	1 HP
Total layer	2	2	2	2	2	2
Dimension LxBxH (Ft, In)	7'10" x 5'1" x 4'11"	7'10" x 6'8" x 8'2"	9'2" x 6'8" x 8'10"	7'10" x 7'2" x 4'11"	7'10" x 8'4" x 8'2"	9'2" x 8'4"x 8'10"

**Note : This content is shown for paddy*



PADDY CLEANER CUM DESTONER

LARGE IMPURITIES AND SMALL STONES REMOVER

Paddy cleaner cum Destoner is a machine specifically designed to minimize power consumption and occupy mill space.

INPUT



Raw Paddy

OUTPUT



Paddy



Rice Straw



Stone

FEATURES AND TECHNOLOGY



Stainless Steel
DrumFood grade ss304 is used for robust performance



SS Sieves
Precise screen size ensures high separating efficiency during the process



Eccentric Vibration
Eccentric vibration is generated for stone and paddy separation

Model	**PCD04**	**PCD06**
Capacity (TPH Paddy)	3 to 4	5 to 6
Motor (HP)	2	2
Gear box	No	No
Weight (Kg	800	975
Dimension LxBxH (Ft, In)	5'2" x 4'11" x 10'5"	5'2" x 5'4" x 10'5"

**Note : This content is shown for paddy*



VIBRO PADDY DESTONER **STONES SEPARATOR**

A paddy Destoner is a machine which removes stones, sand and clods from grains. Such as rice, paddy and beans. It works with the principle of vibrating an inclined sheet at a specific angle making the heavier particles move in the upward direction by giving a negative pressure from above. The suction mechanism removes dust and light weight unwanted particles.

FEATURES AND TECHNOLOGY



Vibration Level Indicator
The level of vibration is directly proportional to the quality of output



Closed Dust Aspiration
Enclosed chamber helps to maintain stream lined flow with sufficient amount of pressure



Model	DSR04	DSR06	DSR08
Capacity (TPH Paddy)	3 to 4	5 to 6	7 to 8
Vibro Motor Power (HP)	0.5 x 2 Nos	0.5 X 2 Nos	1 x 2 Nos
Voltage / Frequency (Volts/HZ)	415 / 50	415 / 50	415 / 50
Weight (Kg)	424	495	620
Dimension LxBxH (Ft, In)	5'2" x 5'4" x 5'10"	4'10" x 5'4" x 5'10"	6'10" x 5'4" x 6'6"



Height Scale
Fine Height Adjustable provision is given for manual quality control

**Note : This content is shown for paddy*

PNEUMATIC SHELLER

PADDY HUSKER

Sheller is a machine with compact structure with a high efficiency by removing the husk layer which is present on the rice. It works with the concept of Rubber-Grain-Rubber frictional contact, successfully removing husk without much damages to the grain.





FEATURES AND TECHNOLOGY



Sheller Rubber
Using high quality rubbers for extra performance and extended life time



Pneumatic Adjustment
Pneumatically adjustable cylinders are used to maintain precise distance between 2 rubber rollers



Internal blower
Inbuilt blower is used to remove unwanted flying husk and fine dust



Vibrator Feeder
Even flow of paddy is must for best result and long rubber life

Model	SHR03	SHR04	SHR06
Capacity (TPH)	2.5 to 3	3 to 4	5 to 6
Motor Power (HP)	10	12.5	15
Pneumatic Actuated	Yes	Yes	Yes
Inbuilt Blower	Yes	Yes	Yes
Weight (Kg)	900	950	970
Dimension LxBxH (Ft, In)	4'7" x 3'1" x 4'7"	4'7" x 3'1" x 4'7"	4'7" x 3'1" x 4'7"

**Note : This content is shown for paddy*

HUSK ASPIRATOR

HUSK REMOVER





Model	HAR04	HAR06
Capacity (TPH)	3 to 5	5 to 6
Motor Power (HP)	5	7.5
Blower	In Built	In Built
Weight (Kg)	440	460
Dimension LxBxH (Ft, In)	7'5" x 3'9" x 3'6"	7'5" x 4'2" x 3'6"

**Note : This content is shown for paddy*

HUSK SEPARATOR

HUSK REMOVER



The husk separator is a machine which helps to separate brown rice, rice husk & dust. Aerodynamically designed structure helps to machine to work to its fullest performance.

FEATURES AND TECHNOLOGY



Inbuilt Blower
Use of inbuilt blower creates internal air circulation to work effectively



Low Maintenance
Simple logical design with no critical factors making the machine easy to repair



Adjustable flaps
Fine adjustments are made very easy with easy handling flaps from exterior

Model	HSR04	HSR06
Capacity (TPH)	3 TO 4	5 to 6
Motor Power (HP)	2	5 HP
Weight (Kg)	650	900
Dimension LxBxH (Ft, In)	6'2" X 5'10" X 4'3"	6'0" X 7'2" X 4'2"

INPUT



Brown Rice

OUTPUT



Brown Rice



Husk

Note : This content is shown for paddy

PADDY SEPARATOR

PADDY AND RICE SEPARATOR





Paddy Separator Machine is used to separate the brown rice from the paddy that is not be husked, it words according to the difference of specific gavity, granularity & friction coefficient between paddy and brown rice, through the special sepanting tray to screen the mixture continuously making it in stratification state.

FEATURES AND TECHNOLOGY



Handy Input Access
The input control is made handy Near output delivery duct. Making adjustment easy and efficient



Stainless Steel (SS) Trays
Trays are made with SS material for everlasting performance



Manual height adjustment
Height adjustment option is provided to get the perfect required output respect to its inlet feed rate

Model	PSR03	PSR04	PSR06	PSR08
Capacity (TPH)	2 to 3	3 to 4	5 to 6	7 to 8
Motor Power (HP)	3	3	3	3
No of Trays	15	20	30	40
Variable Speed Drive	Included	Included	Included	Included
Weight (Kg)	190	800	1100	1110
Dimension LxBxH (Ft, In)	4'3" X 5'6" X 7'1"	4'3" X 5'6" X 7'1"	1987 x 5'6" x 7'1"	1987 x 5'6" x 7'1"

INPUT



Rice & Paddy

OUTPUT



Rice



Paddy

Note : This content is shown for paddy

WHITENER

ABRASIVE STONE POLISHER



Whitener is otherwise known an abrasive polisher. This is a technique used to remove a layer of bran from rice by polishing using rough stones. The rice is gently passed through the abrasion chamber between specific silicon carbide stones and, by this process, the brown rice turns white. The removed bran is collected by the attached external suction blower.



Regular Whitener (WTR)

FEATURES AND TECHNOLOGY



Silicon Carbide Stones

Green silicon carbide and Black Silicon carbide are used. Stones are used based on type of processed rice



Sieves

Hardened Steel is used for longer self life, and multiple range of perforation for multiple combinations



Top-to-bottom Flow

Machine is designed to feed rice from top bran is removed in the middle and collected at the bottom



Magnehelic Gauge

Maintaining proper chamber pressure is one of the key feature to be ensured at the time of machine startup.



Special Metal Knife

Blade/ Knife made with EN8 material for extended self life and uniform whiteness



Rigid and low maintenance

Quick and easy replaceable screen with sieves. minimum wear and tear parts

TECHNICAL SPECIFICATIONS

Model	WTR03	WTR04	WTR06	WTR08	WTR12
Capacity (TPH)	2.5 to 3	3 to 4	5 to 6	7 to 8	8.0 / 10.0 / 12.0
Motor Power (HP)	30	40	50	60	75/100/120
Motor RPM	1440	1440	1440	1440	1440
Abrasive Stone count	6	6	6	6	9
Total Screens	3	3	3	3	4
Weight (Kg)	900	950	1600	1700	2700
Dimension LxBxH (Ft, In)	4'8" x 2'0" x 5'3"	4'8" x 2'0" x 5'3"	5'4" x 2'7" x 5'6"	5'4" x 2'7" x 5'6"	6'2" X 3'3" X 6'2"

**Note : This content is shown for Paddy*

SILKY

WATER JET POLISHER

INPUT



Unpolished Rice

OUTPUT



Polished Rice Rice Bran



Silky Super (SKS)



Silky Classic (SKY)

Silky polishes the outer surface of the rice with water through a rotating camshaft. Silky polisher comes with an optional water atomizer system that sprays water evenly over rice and passes through a camshaft roller. Due to friction polishing and water mixture, the glazing rice resulted.

FEATURES AND TECHNOLOGY



Water Jet Atomizer

A water jet nozzle spreads water evenly all over rice.This gives an uniform glazing over rice



Smart Circuit

Some of the critical sequence of operations such as water cut-off during over load is done automatically



Air Pressure Gauge & Regulator

Inbuilt Gauges are given to measure and control the air pressure inside polishing chamber



Rotameter

Flow rate of water must me set to avoid high moisture content machine downtime due to rice choking



Screen

Most important and most critical part in machine made of hardened steel responsible for perfect glazing



Cam Roll

2 leaf 2 stage cam roll is rotated at higher RPM. The gap and friction is strictly maintained for better poilshing

TECHNICAL SPECIFICATIONS

	Classic Model		Super Model			
Model	**SKY04**	**SKY06**	**SKS06**	**SKS08**	**SKS10**	**SKS12**
Capacity (TPH)	3 to 4	5 to 6	5 to 6	7 to 8	7 to 8	7 to 8
Motor Power (HP)	50	60	60	75	75	75
Motor RPM	1440	1440	1440	1440	1440	1440
Total Screens	4	4	4	4	4	4
Water Pump (KW/HP)	0.37 / 0.5	0.37 / 0.5	0.37 / 0.5	0.37 / 0.5	0.37 / 0.5	0.37 / 0.5
Weight (Kg)	1155	1179	1197	1486	1486	1486
Dimension LxBxH (Ft, In)	8'2" X 2'3" X 4'11"	8'2" X 2'3" X 4'11"	7'10" X 2'3" X 6'1"	9'6" X 6'0" X 6'2"	9'6" X 2'9" X 6'2"	9'6" X 2'9" X 6'2"

**Note : This content is shown for Paddy*

RICE DESTONER

SMALL STONE SEPARATOR

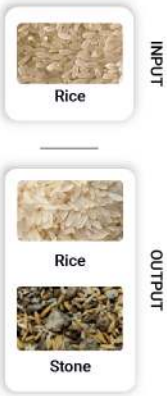
Rice Destoner is one of the secondary stage cleaning processes. Rice destoner remove small stones and impurities. This rice destoner works when the rice is elevated, leading the sbnes to move backwards towards the exit.



Suction Type (RDR)



Blow Type (RDB)



FEATURES AND TECHNOLOGY



Eccentric Vibration
The machine is operated by the mechanical eccentric movement



SS Sieves
Precise screen size ensureshigh separating efficiency during the process

Energy Saving
The RDB machine is designed to run under low power conditions

Model No	Suction Type RDR06	Suction Type RDR08	Blow Type RDB02	Blow Type RDB04	Blow Type RDB06
Capacity (TPH)	4 to 6	8 TON	1.5 to 2	3 to 4	5 to 6
Motor (HP)	2	3	1	2	2
Weight (Kg)	550	670	400	400	400
Dimension LxBxH (Ft, In)	4'9" x 5'1" x 5'2"	5'2" x 6'2" x 5'2"	2'6" x 3'11" x 3'6"	4'11" x 3'11" x 4'3"	7'5" x 3'11" x 4'3"

**Note : This content is shown for paddy*

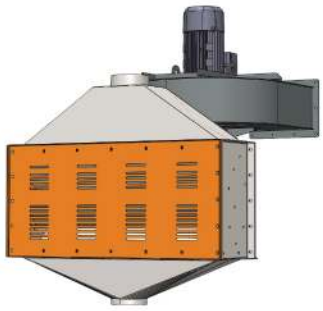
RICE SIFTER

RICE SIZE GRADER

Rotary sifter is designed to separate broken rice depending upon their thickness. Rotary sifter comes with 11 optional screen sizes 1.8, 2.0, 2.5, 2.8, 3.0, 3.2, 3.5, 3.8, 4.0, 4.2, 4.5.



Rotary Sifter



Sifter Aspirator (RSA)
2 HP (Optional)

FEATURES AND TECHNOLOGY



Semi Self-cleaning Design
Resilient rubber balls removes clogged screen by repeated hitting and cleaning

Model	Rotary Sifter RSR04	Rotary Sifter RSR06
Capacity (TPH)	3 TO 4	5 TO 6
Motor Power (HP)	1.5	2
Weight (Kg)	600	800
Dimension LxBxH (Ft, In)	5'10" X 3'5" X 5'2"	5'10" X 4'3" X 5'2"

**Note : This content is shown for paddy*



- Motorized
- Manual
- Pneumatic Slidegate



Magenetic Separator



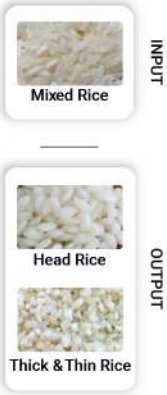
SS Process conection pipes

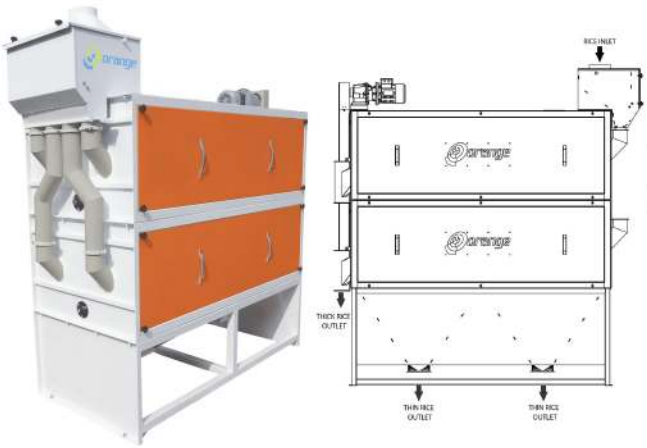


Grain Divertor



Bran Blower





THICKNESS GRADER

THICK AND THIN GRADER

Thickness Grader is designed specially to segregate/ classify types of rice with respected to their thickness. Thickness grader requires very minimal amount of power for its best performance.

FEATURES AND TECHNOLOGY



Unique Roller
Specifically designed roller is used, runs seamlessly even with increased capacity fluctuation



Low Power Consumption
Mechanically stable design makes machine perform to its fullest extent with very minimal power



Cleaning Brush
This inbuilt brush ensures there are no unwanted rice particles stuck within the screen creating a blockage

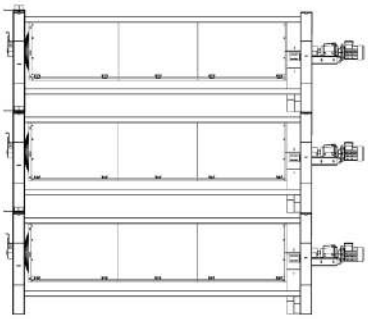
Mode No	TGR04	TGR06	TGR08
Capacity (TPH)	3 to 4	5 to 6	7 to 8
Power (HP)	0.5	1	2
Motor RPM	68	68	68
Weight (Kg)	750	950	1150
Dimension LxBxH (Ft, In)	7'2" x 2'11" x 5'10"	7'2" x 2'11" x 7'9"	7'2" x 2'11" x 9'8"

**Note : This content is shown for paddy*

LENGTH GRADER

HEAD RICE SEPARATOR

Length Grader is a specialized machine in segregating head rice from mixture of broken rice. Highly efficient segregation stars from High quality embossed sheet and calculated motor speed.





FEATURES AND TECHNOLOGY



Self-Cleaning
Inbuilt brush for self-cleaning is helpful for easy maintenance



Embossed Sheet
Specifically designed CNC embossed sheet for better result

Model	LGR04	LGR06	LGR08
Capacity (TPH)	2 to 4	4 to 6	6 to 8
Motor Power (HP)	1.5 / 2	1.5 / 2 (2 NOS)	1.5 / 2 (3 NOS)
No.of Sieve - Drum	1	2	3
Weight (Kg)	650	1300	1950
Dimension LxBxH (Ft, In)	14'4" X 3'6" X 4'6"	14'4" X 3'6" X 9'0"	14'4" X 3'6" X 13'6"

**Note : This content is shown for paddy*

ACCESSORIES



Blower
1hp~50hp
Centrifugal Blower
Ventury Blower



Bran Discharger/Airlock
06 inch, 08 inch, 10 inch & 12 inch

CYCLONE SEPARATOR



DIA
500 (mm)
600 (mm)
700 (mm)
800 (mm)
950 (mm)
1100 (mm)
1300 (mm)
1500 (mm)
1750 (mm)
2050 (mm)

Special Metal Knife



FEMTOSORT GRAVIS Ai -RICE



RICE COLOR SORTER

Our FEMTOSORT Gravis Ai-Rice machine is engineered with cutting-edge Artificial Intelligence and Machine Learning technology. Leveraging a multi-spectral color detection system, the machine identifies and eliminates the finest defects including subtle chalkiness, light yellow discolorations, and minute spot imperfections, ensuring export-grade quality compliance. Equipped with Precision Ejection technology and ultra-high-speed ejectors, FEMTOSORT Gravis Ai-Rice delivers "ZERO Wastage" while maintaining superior throughput capacity. The machine is connected through 4G/5G networking for providing Quick online support to Customers.

ADVANCED FEATURES



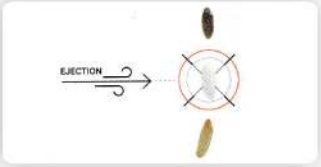
Zero Wastage



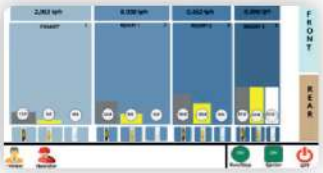
Instant Machine Learning



Ai - Live Video



Reverse Sorting



Tonnage Monitoring



Dual Stage Dust Collection System



Remote Access

TECHNICAL FEATURES

Model	5 CHUTE	6 CHUTE	8 CHUTE	10 CHUTE
Configuration	2 + 1 + 1 + 1	3 + 1 + 1 + 1	4 + 2 + 1 + 1	5 + 3 + 1 + 1
* Processing Capacity (Tons/Hr)	3~4 TPH	4~5 TPH	6~9 TPH	7.5~10 TPH
* Sorting Accuracy	>99.6%	>99.6%	>99.6%	>99.6%
* Rejection Ratio	≥40:1	≥40:1	≥40:1	≥40:1
Voltage & Frequency (V//Hz)	AC 220 /50 Hz	AC 220 /50 Hz	AC 220 /50 Hz	AC 220 /50 Hz
Power required (KVA)	7.5	7.5	10	12
Air pressure required Kg/cm^2	6.1 - 8.2	6.1 - 8.2	6.1 - 8.2	6.1 - 8.2
Air required (CFM)	120	130	150	160
Weight Max. (kg)	1170	1458	1800	2403
Dimension in Feet ' Inches " (L)	7'5"	9'5"	11'	14'1"
Dimension in Feet ' Inches " (W)	5'7.5"	5'7.5"	5'7"	5'8"
Dimension in Feet ' Inches " (H)	6'1"	6'1"	6'8"	6'8"

Terms and conditions :

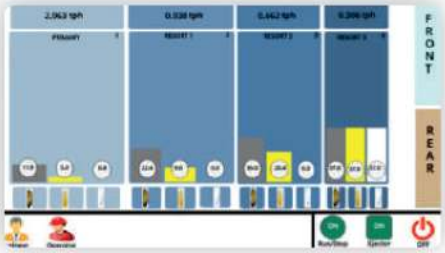
* Sorting performance varied depends upon Variety, Input contamination and condition of raw material.
* The capacity range given is for 2 to 5% contamination on tested.
* Performance means: Output and Rejection ratio (g: good b:bad), Purity
* Capacity means" Throughput" = Output + Rejection
* Air consumption will be more in case of higher rejection rate for raw materials with higher contamination
* Configuration Changes "Programmable ",given informations for Rice commodities.Other commodities details contact Technical team.

FEMTOSORT

Our FEMTOSORT machine is equipped with Artificial Intelligence Technology. With this AI and Mixed color spectrum, we can accurately detect and remove even the mild chalky, lightest yellow, minute spot defects to meet export quality requirements. With the combination of "Centre-Ejection technology" with High-speed ejectors, we can reduce wastage even at a higher ever capacity.The machine is connected through 4G/5G networking for providing Quick online support to Customers.



ADVANCED FEATURES



Tonnage Monitoring



Dual Stage Dust Collection System



Remote Access

TECHNICAL FEATURES

Model	**5 CHUTE**	**6 CHUTE**	**8 CHUTE**	**10 CHUTE**
Configuration	2 + 1 + 1 + 1	3 + 1 + 1 + 1	4 + 2 + 1 + 1	5 + 3 + 1 + 1
* Processing Capacity (Tons/Hr)	3~4 TPH	4~5 TPH	6~9 TPH	7.5~10 TPH
* Sorting Accuracy	>99.6%	>99.6%	>99.6%	>99.6%
* Rejection Ratio	≥40:1	≥40:1	≥40:1	≥40:1
Voltage & Frequency (V//Hz)	AC 220 /50 Hz	AC 220 /50 Hz	AC 220 /50 Hz	AC 220 /50 Hz
Power required (KVA)	7.5	7.5	10	12
Air pressure required Kg/cm^2	6.1 - 8.2	6.1 - 8.2	6.1 - 8.2	6.1 - 8.2
Air required (CFM)	120	130	150	160
Weight Max. (kg)	1170	1458	1800	2403
Dimension in Feet ' Inches " (L)	7'5"	9'5"	11'	14'1"
Dimension in Feet ' Inches " (W)	5'7.5"	5'7.5"	5'7"	5'8"
Dimension in Feet ' Inches " (H)	6'1"	6'1"	6'8"	6'8"

Terms and conditions :

* Sorting performance varied depends upon Variety, Input contamination and condition of raw material.
* The capacity range given is for 2 to 5% contamination on tested.
* Performance means: Output and Rejection ratio (g: good b:bad), Purity
* Capacity means" Throughput" = Output + Rejection
* Air consumption will be more in case of higher rejection rate for raw materials with higher contamination
* Configuration Changes "Programmable ",given informations for Rice commodities.Other commodities details contact Technical team.

FEMTOSORT

GRAVIS Ai - Multi

Our FEMTOSORT Gravis AI machine is engineered with cutting-edge Artificial Intelligence and Machine Learning technologies. Leveraging a multi-spectral color detection system, the machine identifies and eliminates the finest defects using "Machine Learning Teaching Technology," ensuring export-grade quality compliance. Equipped with "AI Deep Learning Technology," it accurately detects insect defects. Additionally, the "Size Sorting" feature allows for various gradings of cashews to be delivered efficiently. The machine is connected through 4G/5G networking for providing Quick online support to Customers.



ADVANCED FEATURES



Multi-Commodity Sorting



Instant Machine Learning



Remote Access



Dunky/Holes Sorting



Size Sorting (Cashew)



Dual Stage Dust Collection System



Ai - Live Video

TECHNICAL FEATURES

MODEL	2 CHUTE	3 CHUTE	4 CHUTE	5 CHUTE	6 CHUTE	8 CHUTE	10 CHUTE
Configuration	1 + ½ + ½	2 + 1	2 + 1 + ½ +½	3 + 1 + 1	3 + 2 + ½ + ½	4 + 2 + ½ + ½	5 + 3 + 1 + ½ + ½
* Processing Capacity (Tons/Hr)	0.8~1.1 TPH	1~2 TPH	2~4 TPH	3~4 TPH	4~5 TPH	6~9 TPH	7.5~10 TPH
* Sorting Accuracy	>99.00%	>99.00%	>99.00%	>99.6%	>99.6%	>99.6%	>99.6%
* Rejection Ratio	NA	≥20:1	≥12:1	≥40:1	≥40:1	≥40:1	≥40:1
Voltage & Frequency (V//Hz)	AC 220 /50 Hz						
Power required (KVA)	2	3	5	7.5	7.5	10	12
Air pressure required Kg/cm2	6.1 - 8.2	6.1 - 8.2	6.1 - 8.2	6.1 - 8.2	6.1 - 8.2	6.1 - 8.2	6.1 - 8.2
Air required (CFM) Reduced 20% Air	30	50	70	120	130	150	160
Weight Max. (kg)	300	550	750	1170	1458	1800	2403
Dimension in Feet ' Inches " (L)	4'0.5"	5'1"	6'2.5"	7'5"	9'5"	11'	14'1"
Dimension in Feet ' Inches " (w)	5'7.5"	5'7.5"	5'7.5"	5'7.5"	5'7.5"	5'7"	5'8"
Dimension in Feet ' Inches " (H)	6'1"	6'1"	6'1"	6'1"	6'1"	6'8"	6'8"

Terms and conditions :

* Sorting performance varied depends upon Variety, Input contamination and condition of raw material. The capacity range given is for 2 to 5% contamination on tested.
* Performance means: Output and Rejection ratio (g: good b:bad), Purity
* Capacity means" Throughput" = Output + Rejection
* Air consumption will be more in case of higher rejection rate for raw materials with higher contamination
* Configuration Changes "Programmable ",given informations for Rice commodities.Other commodities details contact Technical team.

PICOSORT GRAVIS Ai - Multi



Our PICOSORT Gravis Ai have advanced machine learning technology, allowing customers to perform multi-commodity sorting solutions with greater efficiency. By utilizing "Machine learning-Teaching Technology", the machine can effectively detect defects and significantly reduce the time and effort required from the customer. Additionally, the machine offers capacity of up to 4 chute and includes remote connectivity support via 4G and 5G networks, enabling seamless support from anywhere.

ADVANCED FEATURES



Multi-Commodity Sorting



Instant Machine Learning



Remote Access

TECHNICAL FEATURES

Model	**2 CHUTE**	**3 CHUTE**	**4 CHUTE**
Configuration	1 + ½ + ½	2 + 1	2 + 1 + ½ + ½
* Processing Capacity (Tons/Hr)	0.8~1.1 TPH	1~2 TPH	2~4 TPH
* Sorting Accuracy	>99.00%	>99.00%	>99.00%
* Rejection Ratio	NA	≥ 20:1	≥ 12:1
Voltage & Frequency (V//Hz)		AC 220/50 Hz	
Power required (KVA)	2	3	5
Air pressure required Kg/cm2	6.1 - 8.2	6.1 - 8.2	6.1 - 8.2
Air required (CFM) Reduced 20% Air	30	50	70
Weight Max. (kg)	300	550	750
Dimension in Feet ' Inches " (L)	4'0.5"	5'1"	6'2.5"
Dimension in Feet ' Inches" (w)	5'7.5"	5'7.5"	5'7.5"
Dimension in Feet ' Inches " (H)	6'1"	6'1"	6'1"

Terms and conditions :

* Sorting performance varied depends upon Variety, Input contamination and condition of raw material. The capacity range given is for 2 to 5% contamination on tested.
* Performance means: Output and Rejection ratio (g: good b:bad), Purity
* Capacity means" Throughput" = Output + Rejection
* Air consumption will be more in case of higher rejection rate for raw materials with higher contamination
* Configuration Changes "Programmable ",given informations for Rice commodities.Other commodities details contact Technical team.

GRAIN FEEDER

ELEVATOR

Elevator is one of the most essential product in material handling and movement. Orange elevators are operated using an worm gear fixed motor and run with a calculated surface speed for better output performance.



CONSTRUCTION MATERIAL

Miled Steel / Stainless Steel / Galvanised Steel

- Broken reduction
- Dust suction
- Accelerating chute
- PLC supported design
- Food grade quality belt
- SS or Silicon Decelerator
- Imported Industry Quality Bearing
- Elongation Scale

FEATURES AND TECHNOLOGY



Synthetic Belt
Food grade belt with Heat resistant upto120°C, Oil resistant, Odourless, and High bolt tear resistant



Ribbed Pulley
Perfectly designed to avoid crushing of grain between belt and pulley added corner radius to avoid belt damage



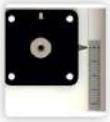
Fill Factor
Maximum volume of the commodity to be lifted by the bucket at a efficient condition



Spill Factor
Ratio between the maximum lifted volume by bucket (Kg) to the volume of delivery at outlet by bucket (kg)



Suction Blower
Orange is the first company designed with this concept of push and pull blower system



Elongation Reference Scale
Introducing unique reference scale helps user to know the stretched condition of belt

TECHNICAL FEATURES

Regular Elevator

	Bucket Size (Inch)	Box Width	*Capacity (TPH) PADDY	*Capacity (TPH) RICE	Power (Kw/Hp) Below 30ft	Power (Kw/Hp) 30ft to 60ft	Power (Kw/Hp) Above 60 ft
ELV04	4"	6.2"	4-5	6-7	1 HP	1 HP	-
ELV06	6"	8.1"	8-9	10-12	1 HP	2 HP	2 HP
ELV08	8"	10.5"	12-14	12-14	2 HP	3 HP	3 HP

Slow Speed Elevator

	Bucket Size (Inch)	Box Width	*Capacity (TPH) PADDY	*Capacity (TPH) RICE	Power (Kw/Hp) Below 30ft	Power (Kw/Hp) 30ft to 60ft
ELV04	5"	6.2"	4-5	6-7	1 HP	1 HP
ELV06	6"	8.1"	8-9	10-12	1 HP	2 HP

Outdoor Elevator

	Bucket Size (Inch)	Box Width	*Capacity (TPH) PADDY	*Capacity (TPH) RICE	Power (Kw/Hp) 30ft to 60ft	Power (Kw/Hp) Above 60 ft
EEV08	8"	17.7"	12-14	12-14	3 HP	3 HP
EEV10	10"	20"	26-28	26-28	5 HP	7.5 HP
EEV12	12"	22"	35-37	35-37	7.5 HP	7.5 HP
EEV14	14"	24"	49-53	49-53	7.5 HP	7.5 HP
EEV16	16"	27"	65-68	65-68	10 HP	10 HP

NOTE

*Capacity is Calculated Based on Bulk Density by **Paddy - 560 kg/m³, Rice- 750 kg/m³**
Elevator Cup available in plastic, mild steel, stainless steel material.

PACKING MACHINE



Single Head



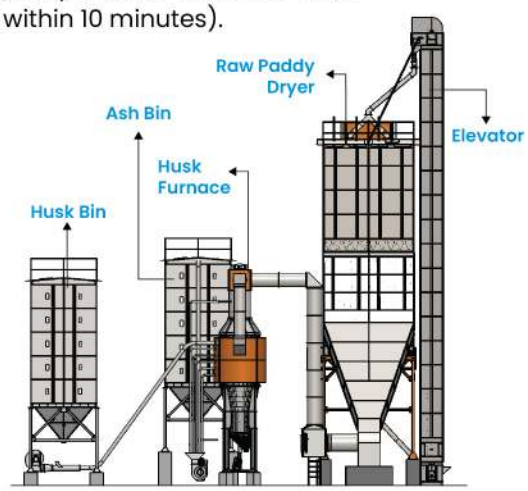
Double Head



Triple Head

HUSK FURNACE

High combustion efficiency with double cyclonic effect creating an air/husk vortex for a complete smoke free combustion. The spiralling vortex of air forces ash to fall to the bottom of grate for automatic discharge. Auto controlled husk feeder with PID control ensures regular and even hot air supplyrequiring minimum time delay between start up & actual operations. (Temperature increase from 0°C to 150 °C within 10 minutes).





TECHNICAL FEATURES

Max Heat Power (MW)	1 MW	2 MW	4 MW	6 MW	8 MW
Husk Consumption Kg/Hr	50~250	100~500	200~1000	300~1500	400~2000
Total Electric Power (Hp)	10.5	10.5	10.5	12.5	16.5
Husk Feed Screw Conveyor (Hp)	0.5	0.5	0.5	0.5	0.5
Husk Blower (Hp)	3	3	3	3	5
Air Blower (Hp)	3	3	3	5	5
Swepper (Hp)	0.5	0.5	0.5	0.5	0.5
Ash Feed Screw Conveyor (Hp)	3	3	3	3	5
Ash Blower (Hp)	0.5	0.5	0.5	0.5	0.5
Dimension (Dia Xheight) Meters	1.75 X 8.64	1.75 X 9.6	2.15 x 9.5	2.15 x 11.8	2.15 x 13.5

TECHNICAL FEATURES

		Single Head					Double Head					Triple Head				
Functional Parameters	Filling Range (Kg)	5 ~75 kg					5 ~75 kg					5 ~75 kg				
	Bag Range (Kg)	5	10	25	50	75	5	10	25	50	75	5	10	25	50	75
	Filling speed (~) (Bags/ Hr)	500	400	240	190	153	720	550	500	320	260	950	720	650	420	340
	Filling speed (~) (Tons/ Hr)	2.5	4	6	9.5	11.5	3.6	5.5	12.5	15	19.5	4.8	7.2	16.2	21	26.5
	Accuracy (~) (+/-) grams	20	20	30	40	60	20	20	30	40	60	20	20	30	40	60
Electrical	Operating Voltage/ Frequency (V/Hz)	230V AC / 50hz (440V AC If Stitching & Conveyor is used)														
	Power consumption weighing and filling (KW)	0.25					0.5					0.75				
	Power consumption Conveyor (~) ( ) (KW)	0.75					0.75					0.75				
	Power consumption Sticher (~) (Optional) (KW)	0.35					0.35					0.35				
Pneumatic	Air pressure required (Kg/cm2)	6 ~7.5					6 ~7.5					6 ~7.5				
	Air volume required (CFM)	<2					<3					<5				
Mechanical	Dimension - Length (mm/ft)	L - 812 mm / 2.9 ft					L - 1838 mm / 6.0 ft					L - 2315 mm / 7.6 ft				
	Dimension - Width (mm/ft)	B - 610 mm / 2.0 ft					B - 976 mm / 3.2 ft					B - 890 mm / 2.9 ft				
	Dimension - Height (mm/ft)	H - 540 mm / 1.9 ft					H - 3050 mm / 10 ft					H - 2220 mm / 7.2 ft				
	Mounting	Under Hopper Mouth					On built-in stand by Orange					On Hopper Structure by Client				
	Weight (~) (Kg)	100					350					400				

PARBOILING UNIT



PADDY SOAKING - PRIMARY TANK





BELT CONVEYOR



STEAM LINES

Automation for Parboiling

- Buffer tank fill sensor
- Buffer tank pneumatic slidegate
- Controled steam feed for paddy
- Controlled water feed for paddy
- Controlled Re-circulation process
- Auto drain for soaked water
- Auto delivery for soaked paddu
- Auto tank cleaning with preassureized water
- Operator friendly touch screen and PLC



SS INPUT PIPELINES



STEEL STRUCTURE

TECHNICAL FEATURES

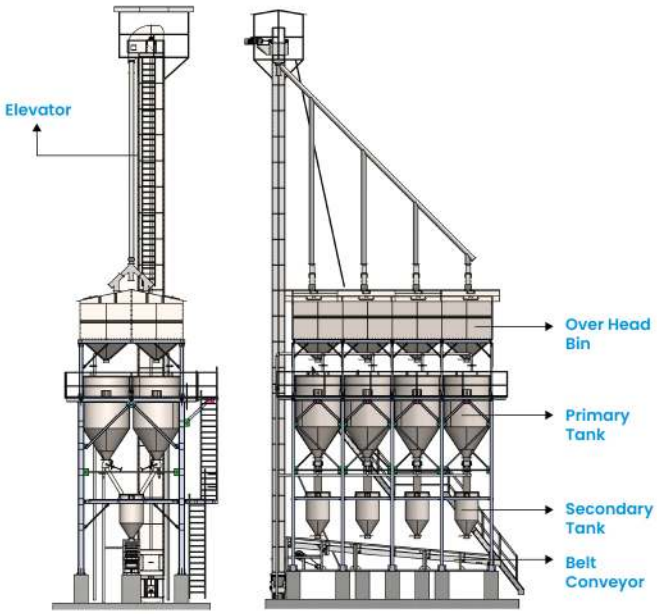
Capacity in Tons	4	8	16	24	32	40	50	60

TANK CAPACITY

Primary From 2000, 3000, 4000, 5000 Kgs

Secondary From 250 Kgs, 500 Kgs

PARBOILING UNIT LINEART





CONCREATE STRUCTURE

DRYER





HEAT EXCHANGER





SS Elevator



Airducts



Centrifugal Blower



Discharge Section



Feed Roller Assembly



Heat Exchanger





V PORTS

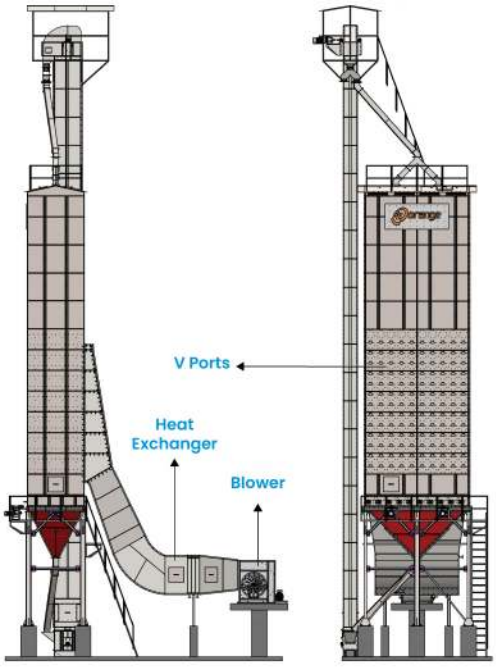


SS DRYER ELEVATOR



BLOWER

DRYER LINEART



ADVANTAGES

- Ergonomic design and convenient feeding and discharging system.
- Impeccable service, SS construction material Series 200
- Bolted construction ensures minimum fabrication works at site.
- Inflexible and simple construction, trouble free operations.
- Fully integrated with automation control (SCADA system).
- Efficient heat exchanger with aluminium extruded fins, which ensure maximum heat transfer.

TECHNICAL FEATURES

	Capacity in Tons	24	32	40	50	60
Mechanical	Port Angle°	90°	90°	60°	60°	60°
	Dryer Height (feet)	53	61	57	60	63
Steam	Steam pressure required (Bar)	7 ~ 8	7 ~ 8	7 ~ 8	7 ~ 8	7 ~ 8
	Blower power (HP)	15	20	25	30	40

Note : Dryer height can be 30 to 60 feet

SILO



Orange sells silos with storage capacities ranging from 100 tons to 12,000 tons. These silos are constructed from high-quality steel and coated with zinc through the magnalium process, ensuring they last over 25 years, even in humid regions like India. They can also be equipped with advanced smart systems and automation accessories, including temperature sensors, flow meters, conveyors, and bucket elevators, all integrated with the Integra SCADA system.

Accessories



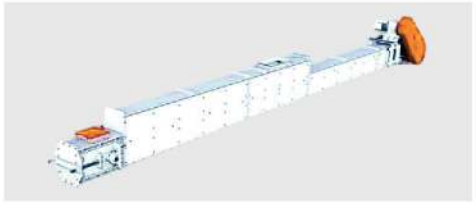
Flow meters
6TPH, 8TPH, 30TPH, 60TPH



Bucket elevators
30TPH ~ 60TPH



Temperature
measurement



Chain Conveyors
30TPH ~ 60TPH

STORAGE BIN

MATERIAL GRADE & THICKNESS

Mild Steel With Painted or Powder Coated	3 mm	2.5 mm	2 mm	-
Galvanised Steel	3 mm	2.5 mm	2 mm	-
Stainless Steel 202 Grade	-	-	2 mm	1.5 mm

STANDARD BASIC TYPE & SIZE OF THE BINS :

Dimension	TYPE - 1 X	TYPE - 2 X	TYPE - 3 X	TYPE - 4 X
D1 X D7	8 x 8 feet 10 x 10 feet 12 x 12 feet	8 x16 feet 10 x 20 feet 12 x 14 feet	8 x 24 feet 10 x 30 feet 12 x 35 feet	8 x 32 feet 10 x 40 feet 12 x 48 feet







30/60 TPH

6/8 TPH

FLOW METER

WEIGHT BASED TONNAGE MACHINE

Flow meter is a highly versatile weighing system which measures Tonnage and Production for a Batch. This helps to find the efficiency of Milling process from Paddy pre cleaner I/P to Colour sorter O/P. FMFM 060240 used for bulk measurement in silo feeding and discharge. Hence we can measure the remaining quantity inside Silo.

		FGFM0620	FGFM0820	FGFM30120	FGFM60240
Functional	Capacity (max) TPH	6.0	8.0	30.0	60.0
	Accumulated weight in Metric Tons (max)	999.0	999.0	999.0	999.0
Electrical	Operating Voltage	230VAC, 50Hz			
	Power required	250W			
Electronic	Human Machine Interface	7" Touch screen	7" Touch screen	7" Touch screen	9" Touch screen
	Batch weight (approx)	10	20	120	240
	Weighing accuracy per batch Grams (+/-)	20	20	40	60
	Data Storage	15 days data	15 days data	15 days data	30 days data
Pneumatic	Data Transfer	SMS Through Modem			
	Air Pressure required	5.5 ~ 6.5 Bar			
	Air Volume required	2 CFM			
Mechanical	Dimension LxWxH (Ft, In)	2'8" x 2'10" x 2'6"	2'8" x 2'10" x 2'6"	2'0" x 4'1" x 8'1"	4'1" x 4'1" x 8'1"

VIEBLAND

WEIGHT BASED BLENDER

Orange Brings you a very accurate, user-friendly and high-speed blending machine for the industry. VieBland uses a state of the art technology in every component of the blending machine. VieBland uses an imported Load cell which needs fewer number of calibrations in its life span. The accepted level of weighing can be calibrated by the user itself. By understanding the requirement of users we have introduced many interesting features.

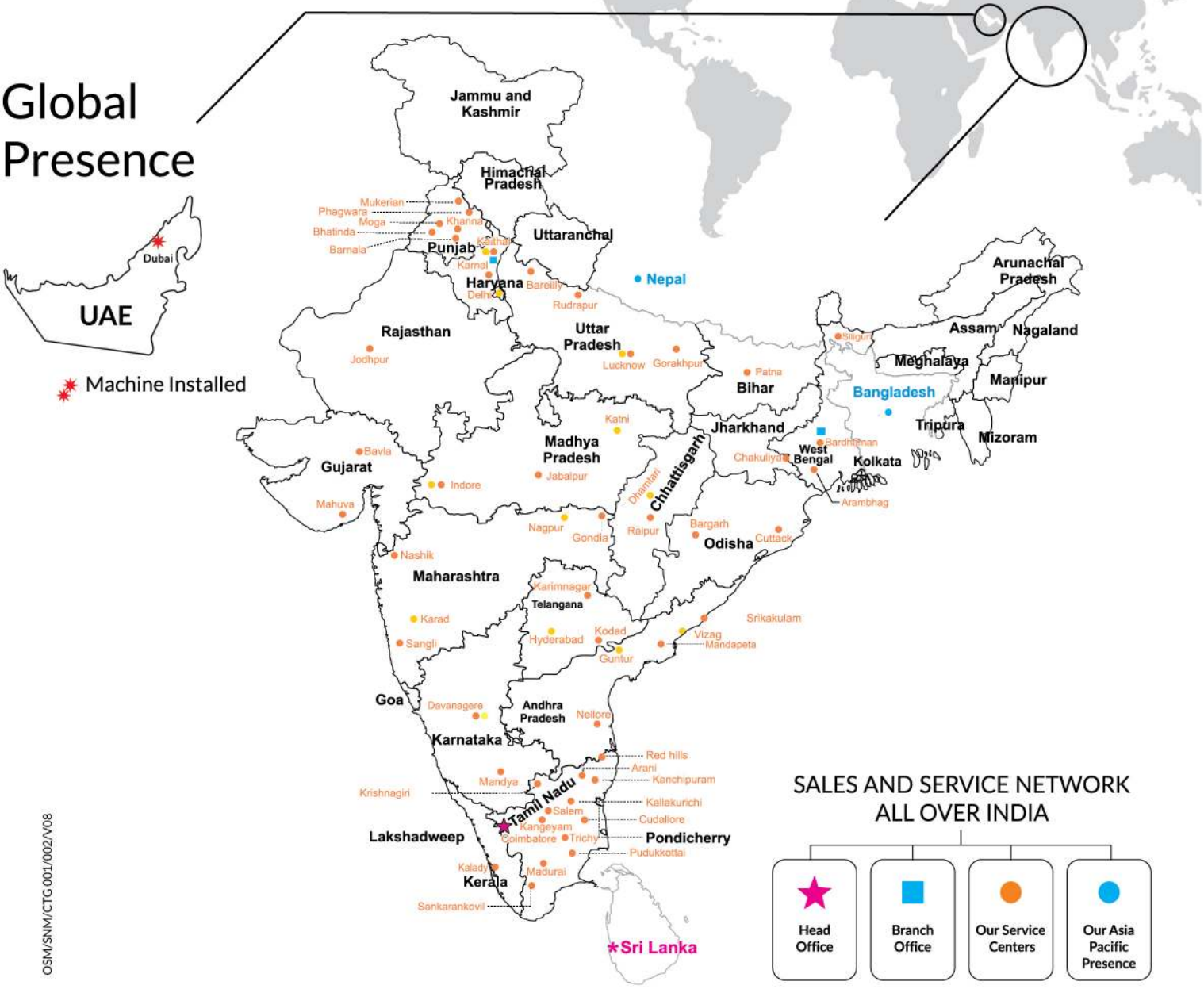
TECHNICAL FEATURES

		VieBland 10KSS RMBF 2A (2 Input)		VieBland 10KSS RMBF 3A (3 Input)	
Functional Parameters	Capacity* at 50KG (Kg/Hr)	9000 ~ 11000 (Kg/Hr)		9000 ~ 11000 (Kg/Hr)	
	Secondary1 Mixing %	1 ~ 50		1 ~ 50	
	Secondary2 Mixing %	-		1 ~ 10	
	Recommended Bag weight (Kg)	25	50	25	50
	Recommended Batch weight (Kg)	25	50	25	50
	Mixing Accuracy (1kg sample) (+/-) %	0.1	0.15	0.1	0.15
	Weighing and filling Accuracy (+/-) grams	20	40	20	40
	Mode	High Capacity Mode / High Percentage % Mixing Mode			
Electrical	Operating Voltage(V) / Frequency (Hz)	440 V / 50 Hz		440 V / 50 Hz	
	Power Consumption	1.0 Kw		1.0 Kw	
Electronics	Sensor Input	Bridge Type Load Cell			
	Operating Ambient Temperature (°C)	<40		<40	
	Data Logging (Days) (Optional)	On Pen Drive for 30 Days			
	LCD Display (Inch)	7"		7"	
	Display Update Rate (Hz)	0.5		0.5	
Pneumatic	Air Pressure Required (Kg/cm2)	6 ~ 7.5		6 ~ 7.5	
	Air Volume Required (CFM)	< 5		< 5	
Mech	Dimension LxWxH (Ft, In)	3'5" x 3'5" x 8'3"		3'5" x 6'2" x 12'9"	
	(~) Weight (Kg)	490		600	



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