

# KIRPA AGRO INDUSTRIES

(A Unit of Kirpa Group of Industries)



# Vertical Bucket Elevator (G.I.)

Self Supporting, centrifugal discharge Vertical Bucket. Elevators are used for conveying the free flowing granular material like wheat, rice, barley, oil seeds, etc. , vertically upward at desired discharge height. Our elevators are designed for slow speed operation to achieve higher bucket filing efficiency and positive discharge, so as to reduce breakage of seeds to minimum at scooping and at discharge as well. Galvanized Iron (G.I) 1.6 mm thick sheet casing, 2.0 mm head & 3.0 mm boot, made on CNC machine.



## Specifications :

Body Make	G.I. (Made on CNC)						
Model No.	VBE-3	VBE-4	VBE-5	VBE-6	VBE-7	VBE-8	VBE-12
Capacity	Up to 2 TPH	2- 4 TPH	6-8 TPH	8- 10 TPH	15 TPH	25 TPH	50 TPH
Feeding Height- Ground level with standard Hopper	0.60 meter	0.65 meter	0.65 meter	0.70 meter	0.90 meter	1.0 meter	1.0 meter
Motor (HP) Up to 10 mtr. Ht.	0.5	1.0	1.5	1.5	2.0	3.0	5.0
Boot Pulley	Wing Type						
Head Pulley	Crowned & Rubberized						
Buckets (MS/PVC/HDPE)	3"	4"	5"	6"	7/8"	8/10"	12"
Belt Size	4"	5"	6"	7"	8"	10"	12"

# Seed Pre- Cleaner

Seed Pre Cleaner is used for efficient cleaning of various crop seeds such as wheat, cereal grains, paddy, rice, malting barley, coffee seeds, pearl millet, maize, sunflower, soybean and oil seeds. The Pre Seed Cleaner uses Nylon brushes/Rubber balls over screens, which ensures excellent efficiency and purity in the cleaning of seeds



## Specifications :

Model No.	KPC-123	KPC-223	KPC-323	KPC-523	KPC-723	KPC-823
Capacity	1-1.5 TPH	2-2.5 TPH	3-4 TPH	5.0 TPH	7.0 TPH	8.0 TPH
No. of Screens	03	03	03	03	03	03
Screen Size	500 x 1800 mm	750 X1800 mm	1000 X1800 mm	1250 X1800 mm	Top- 1250 X 1000 mm, Middle & Bottom – 1250 x 2000 mm (2 pcs of 1250 x 1000 mm in each layer)	1250 X2000 mm
Top Screen	Rough Scalping	Rough Scalping	Rough Scalping	Rough Scalping	Rough Scalping	Rough Scalping
Middle Screen	Close Scalping	Close Scalping	Close Scalping	Close Scalping	Close Scalping	Close Scalping
Bottom Screen	Grading	Grading	Grading	Grading	Grading	Grading
Cleaning Device	Rubber Balls/ Nylon Brush	Rubber Balls	Rubber Balls	Rubber Balls	Rubber Balls	Rubber Balls
No. of Aspiration	One	One	Two	Two	Two	Two
Electric Power	2.5 HP	3.0 HP	4.0 HP	5.5 HP	7.5 HP ( 5.5 + 2.0)	9.5 HP( 7.5 + 2.0)

**Complete with Electric motor, starters, MCB, Pulley Guard, Feed Hopper, One set of Screen, Dust Collector, Air Trunk etc.**

# Seed Grader

This seed grader machine is suitable for cleaning of free flowing granular material, seeds & grains of all kinds like soya bean, wheat, rice, barley, maize etc. Seeds/Grains are fed into a feed hopper where they are evenly distributed by a feed roller and drop through a controlled gate on the top sieve. Before falling on top screen, grains are subjected to primary aspiration which drains off chaff, straw, dust, deceased grains etc. and are collected in a spout. In this spout there is provision of gate which allows the lifted material to be thrown outside. The bigger scalps or oversize material is collected in the self cleaning spouts and the material which passes through the top screen moves over the bottom screen before coming in contact with secondary aspiration ensuring quality cleaning of product. The undersize is collected in bags through self cleaning spouts.



## Specifications :

Model No.	KMUC-513	KUC-123	KUC-412	KUC-413	KUC-513
Capacity (Based on Wheat)	0.5 TPH	1-1.5 TPH	2.0 TPH	2.5 TPH	3.0 TPH
No. of Screens	03	03	02	03	03
Screen Size (W x L)	500 x1300 mm	750 x1800 mm	Top- 900mm x 1000 mm Bottom-900mm x 1800 mm	Top - 900mm x 1200 mm Middle & Bottom- 900mm x 1800 mm	1000 x 2000 mm
No. of Aspiration	02	02	02		02
Electric Motor (440 Volt, 3 Phase)	2.5 HP	5.0 HP	5.5 HP		5.5 HP,
Cleaning Device	Rubber Balls	Rubber Balls	Rubber Balls		Rubber Balls

## Optional Accessories:

Dust Collector	Cyclone Dust Collector with Air Trunk
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Complete with Electric motor, starters, MCB, Pulley Guard, Feed Hopper, One set of Screen, Dust Collector. Air Trunk etc.

# Indented Cylinder

This indented cylinder machine is suitable for separating short or cut grains and long kernels from whole kernel or lot based on their length and round seed from oblong seed. The cut/short grain trapped in the indent pocket (As per size) are lifted upside & falls in the adjustable angle trough while revolving (going upside). The screw conveyor fitted in the the trough take out the short grain from the machine.



## Specifications :

Model No.	KC-11	KC-21	KC-31	KC-42	KC-52
Capacity (Based on Wheat)	1.0 TPH	2.0 TPH	2.5-3.0 TPH	4.0 TPH	5.0-6.0 TPH
No. Of Cylinder	One	One	Two	Two	Two
Speed of Cylinder	Variable	Variable	Variable	Variable	Variable
Dia Of Cylinder	475 mm	1830 mm	2400 mm	1830 mm	625 mm
Length of Cylinder	1500 mm	1830 mm	2400 mm	1830 mm	2400 mm
Electric Motor	0.75 HP	<b>1.0 HP</b>	1.0 HP (Geared Motor)	2.0 HP	2.0 HP (Geared Motor)

Complete with one segment of cylinder, electric motor, starter switch pulley guard etc.

# Specific Gravity Separator

Specific gravity separator is designed for the separation of any kind of kernel and granular product of almost identical size with different weights.

The gravity separator is utilized when the limits of Air-aspiration systems and screening are reached. The gravity separator is an additional piece of equipment for separating more accurately according to specific weight of the granular material. The seed is fed over the wire mesh deck either by gravity or by veebro feeder (Optional) from the surge hopper for uniform feeding. The seed over the deck is stratified with the help of blowers under the machine and oscillation motion of the deck. The seed with high bulk density stays on the deck where as the light one move up side. The oscillation and the rough surface of the deck move the heavy lot up side, where as, the light one moves down ward. The separation can be adjusted with the help of air control, length wise, width wise, inclination and oscillation speed of the deck.



## Specifications:

Model No.	KSG-223	KSG-324	KSG-425	KSG-526	KSG-627
Capacity (Based on Wheat)	02 TPH	02 – 2.5 TPH	2.5 - 3 TPH	4-5 TPH	5 TPH
Deck Size (W.x.L) (with Hydraulic System for cleaning)	850 x 1700 mm	920 x 2000 mm	1100 x 2400 mm	1180 x 2800 mm	1200 x 3250 mm
Speed of Deck	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
No. of Fans (with individual Adjustable Air Control)	03	04	05	06	07
Electric Motor	3.0 HP for Blower and 1 HP for Deck	4.0 HP for Blower and 1 HP for Deck	5.0 HP for Blower and 1 HP for Deck	7.5 HP <sup>3</sup> for Blower and 1.5 HP for Deck	7.5 HP <sup>1</sup> for Blower and 2.0 HP for Deck

**Complete with One Set of Deck, Electric Motor, starters, MCB, Feed Hopper, Air Filters, Spouts,**

# Weigher and bagger

The machine is suitable for Net weighing and Bagging of material like cereals, grains, seeds, etc. in open mouth or valve type bags. It uses a simple load cell suspension technique for accurate and trouble free operation. Positive gripping of Bag, Electro Pneumatically and easy setting of HMI. Feeding to the machine is through gravity feed gate which is actuated pneumatically by solenoid valve. This gate shut off at weight above 95% of the set weight & the remaining feeding is done with the help of vibrofeeder for precise control of last dump for accurate weighing.



## Specifications :

Model No.	KAWB-100
No. of Bags / mnt.	3-4
Digital Display	LED
Weighing Head	01
Accuracy	(+/-) 0.2%
Weighing Range	10 to 100 kg

# Dump Hopper

It is used to dump the raw material & feed to 1% elevator uniformly with the help of control gate, which can be mechanically, electrically or pneumatically operated auto slide gate, this close the opening/gate, once the power goes off. It help to prevent damage to belt, motor, coupling, etc of the elevator. These are available in different capacity and are self cleaning type. Normally these dump hoppers are installed in a pit to facilitate feeding at ground level. A heavy gauge detachable type grating of opening 25 mm x 25 mm, is provided at the top of dump hopper for easy feeding & to remove bigger size leaves, straws, threads, etc. to prevent chocking at the feeding point.



## Specifications :

Model No.	DH2	DH6	DH8
Capacity (Based on Wheat)	200 Kg (0.25M <sup>3</sup> )	550-600 Kg (0.7M <sup>3</sup> )	800-850 Kg (1M <sup>3</sup> )
Size	1250 x 625 mm	2000 x 1000 mm	2500 x 1250 mm
Sheet Thickness	2.0 mm, 2.5 mm	2.5 mm, 3.0 mm	2.5 mm, 3.0 mm
Opening	125 x 150 mm	150 x 175 mm	150 x 175 mm

Auto Slide Gate is operated by pneumatically controlled device/ electrically operated by Vibro Feeder.



# Storage Bin

Made of model design in square or round shape comprising of MS/G.L./SS sheetpanels. Made of 2.0 mm upto 2 Tons capacity and 2.5 mm for more than 2 Ton & Up to 4.0 Ton. For Bins more than 4.0 Ton 3.0 mm thick sheet is used. Tapper Hopper bottom is made of 3.0 mm MS/G.1./SS sheet panel duly rain forced in case of bins more than 3.0 Tons .Legs a made of MS pipe/ G.I. Sheet/ MS /SS Channel Structure.



## Specifications :

Model No.	KSB-1	KSB-2	KSB-3	KSB-4	KSB-5	KSB-10	KSB-20
Capacity (Based on Wheat)	1 Ton	2.0 Ton	3.0 Ton	4.0 Ton	5.0 Ton	10.0 Ton	20.0 Ton

# Destoner

Destoner is used for separation of stone from the grain or heavy impurity from the light one. It work on the principal of specific gravity of products to be separated. That is the products with the same size but with deferent what can be separated.



## Specifications :

Model No.	KD-11P	KD-21P	KD-42N	KD-52N
Capacity	1.0 TPH	2.0 TPH	4.0 TPH	5.0 TPH
Deck Size	850 x 450 mm	850 x 450 mm	1000 X 1200 mm	1200 X 1200 mm
Power Requirement	0.75 HP	1.5 HP	9.5 hp	12.0 HP

# Seed Treater

The machine is suitable for applying chemical, pesticide, fungicide, etc uniformly on the seed, to protect it from disease and pest attack. The seed treater uses a set calibrated quantity of chemical, activated by seed dumping pan/by vibro feeder, in the form of mist. The seed passes through this mist in the mixing chamber, where auger bars/ rotating drum mixes the seeds and pushes towards outlets.



## Specifications :

Model No.	KST-1	KST-2	KST-4	KST-5
Capacity (Based on Wheat)	1.0 TPH	2.0 TPH	4.0 TPH	5.0 TPH
Tank Capacity	30 Litres	40 Litres	90 Litres	200 Litres
Slurry Dosing	Dispensing Type Pump	Dispensing Type Pump	Dispensing Type Pump	Dispensing Type Pump
Blending Chamber	Round	Round	Round	Round
Power	1.0 HP	1.0 HP	2.0 HP	2.0 HP

Suitable for uniform dosing of chemical, with a rotatory drum system. All parts in contact with chemical are made of Stainless Steel.

# Hot Air Seed/Paddy Dryer

It is used to dry all kinds of seed/grain like Wheat, Paddy, Pulses, Oil Seeds, cereals etc. under controlled condition of temperature in a chamber. This chamber has double perforated shell. In between space of these shells is used for drying seed and at the same time hot air, generated by a central/ composed hot air unit, which runs on diesel/Gas. An efficient diesel/Gas burner fires flame in the heat exchanger, from whose outer surface (By Heat Transfer), air is pushed by high vol. Air blower. This air does not come in contact with flame of burner, hence remains contamination free. The temperature of the air is controlled by temperature controller which cut of the burner once the set temperature is achieved and switches on when it goes below 1 deg. Cel. below set temp. During the entire process, seed/grains are circulated with the help of built in VB Elevators, for uniform and cost effective drying resulting in reduction in time and cost of drying.

For automation (Optional), a level controller with electronically controlled a two way gate shall be provided which will stop the feeding elevator, once the dryer is filled with grain /seed & will automatically start the circulation of seed. On achieving the desired level of moisture, press of a button, it will open the gate & discharge the material in a bin/bags/heap. The whole Hot Air Seed Dryer mounted on a four wheel heavy duty sturdy trolley, along with 25 KVA, 3 Phase 440V alternator with P.T.O shaft drive & electric panel. Four no. heavy duty screw jack, one spare wheel, tool box and set of tools shall be provided for ordinary repair and maintenance work.



# Hot Air Seed/Paddy Dryer

## Specifications :

Model No.	KHBD-61B1V	KHBD-81B1V	KHBD-101B1V	KHBD-121B1V	KHBD-321B1V
Capacity	6 Ton/ Batch	8 Ton/ Batch	10 Ton/ Batch	12 Ton/ Batch	32Ton/ Batch
No. of Drying Shell	01	02	02	01	02
Heat Generator	100000 KCAL Diesel	120000 KCAL Diesel	150000 KCAL Diesel	150000 KCAL Diesel	300000 KCAL Diesel
Power	9.5 HP	10.0 HP	10.0 HP	12.0 HP	15 HP
Fuel/Oil Consumption	6-7 Ltr./hr. (Depending Upon Temp.)	7-8 Ltr./hr. (Depending Upon Temp.)	8-10 Ltr./hr. (Depending Upon Temp.)	10 Ltr./hr. (Depending Upon Temp.)	15 Ltr./hr. (Depending Upon Temp.)
Feeding By	Built in Elevator	Built in Elevator	Built in Elevator	Built in Elevator	Built in Elevator

## Specifications :

Model No.	KHBD-Lab	KHBD-BDM3(E)	KHBD-11B1V	KHBD-21B1V	KHBD-51B1V
Capacity	50 kg/ Batch	300-500 KG/ Batch	1 – 2 Ton/ Batch	2 – 3 Ton/ Batch	4 – 5 Ton/ Batch
No. of Drying Shell	01	Box Type	01	01	01
Heat Generator	Electric	25000 KCAL Diesel/Electric	50000 KCAL Diesel	75000 KCAL Diesel	100000 KCAL Diesel
Power	2.0 Kw	20 Kw	3.0 HP	5.0 HP	7.5 HP
Fuel/Oil Consumption	----	2-2.5 Ltr./hr. (Depending Upon Temp.)	4-5 Ltr./hr. (Depending Upon Temp.)	5-6 Ltr./hr. (Depending Upon Temp.)	6-7 Ltr./hr. (Depending Upon Temp.)
Feeding By	Manually	Manually	Built in Elevator	Built in Elevator	Built in Elevator

# Conveyor Belt

It is used to convey the loose material horizontally or at an inclination less than angle of repose of crop or commodity, to be handled. Endless hot joint type rubberized belt, supported on 3 roller, covered from all the four sides, which can be maintained from outside without opening the cover. Complete with electric motor with gearbox, starter switches, guide roller, supporting roller, rubberized belt, feed hopper and discharge outlet head and tail pulleys, tool kit etc. Structure made of modular design M.S. sheet panels with inspection windows in each span of 2.5mtr. long. Each inspections window is provided for inspection and cleaning the conveyor. Structure for mounting on the ground level.



## Specifications :

Model No.	KTBC-2	KTBC-4	KTBC-6	KTBC-8	KTBC-10	KTBC-20
Capacity	2 TPH	4-5 TPH	6 TPH	8 TPH	10-12 TPH	18-20 TPH
Length	Up to 20 feet	Up to 80 feet	Up to 80 feet	80 feet	100 feet	100 feet
Belt Width	300 mm	340 mm	400 mm	450 mm	500 mm	600 mm
Power	1.0 HP	1.0 HP	1.5 HP	2.0 HP	3.0 HP	4.0 HP

# Portable Bag Loader

It is suitable for Loading/Unloading of Trucks, Trolleys & Stacking of bags in godowns etc. Compatible with stitching machine conveyor i.e. it can take the bag from the stitching conveyor and load into the truck & trolley. It helps to reduce the fatigue of labor & loading time, hence increases efficiency.



## Specifications :

Model No.	KBL-50	KBL-100
Capacity	15 Bags/ min.	20 Bags/ min.
(Material to be handled)	10-40 Kg Bags	10-100 Kg Bags
Feeding Height from Ground	200 mm to 400 mm	200 mm to 500 mm
Discharge Height from Ground	3000 mm (Max.)	3700 mm (Max.)
Electric Motor (440 Volt, 3 Phase)	2.0 HP	2.0 HP
Length of Conveyor	20 ft.	25 ft.

# Magnetic Separator

It works on the principal of magnetic separation. The impurities, like black soil stone, mud balls/stones has normally ferrous properties, due to that these mud balls/stone and nut bolts and iron particles gets attracted towards the high gauss, (more than 10000) magnetic field, pulley, hence, can be separated.



## Specifications :

Model No.	KMS-2	KMS-4	KMS-5
Capacity (Based on Wheat)	Up to 2 TPH	4 TPH	5 TPH
Belt Width	750 mm	1200 mm	1500 mm
Power	1.0 HP	1.0HP	1.5 HP

# Spiral Separator

Spiral Separators are used in the seed industry to separate good soya beans from splits or weed seed; they are also used in mostly in free flowing product to sort round shapes from flat or oblong shapes. Spiral separators operate on the principle of gravity and rolling effect. Only product is loaded in the hopper, or directly fed on single spiral. The material flows over an adjustable cone and divides the material evenly into the inner flights. With increasing speed, the round material will separate and roll off the inner flights into a larger outer flight and then exit a side discharge chute at the bottom. The non-round material on the inner flights will exit at the center discharge chute at the bottom.



## Specifications :

Model No.	KSS-2	KSS-3
Capacity (Based on Wheat)	2.0-2.4 TPH	3.0-3.6 TPH
Dia. of Spiral	565 mm	565 mm
No. of Spiral	1 Set of 8 nos. Spiral (Battery of 8 no. Spirals)	1 Set of 12 nos. Spiral (Battery of 12 no. Spirals)

# Mobile Seed/Grain Cleaning Unit With PTO

The mobile seed/Grain Cleaning unit is highly suitable for cleaning of different lots in the surrounding areas or even at remote places. The unit comprises of V.B. Elevator with big hopper to accommodate the trolley width, Seed Cleaner with built in dust collector for pollution free environment. The unit is mounted on heavy duty trolley with bigger size 4 nos. wheels movement in undulating land. The whole plant can be operated either by electricity or by Tractor PTO/Diesel Gen. set. A tool box & stepny is provided to handle day to day maintenance works.



## Specifications :

Model No.	KMC-533
Capacity	5 TPH
No. of Screen	Three
Screen Size of Cleaner	100 cm x 180 cm
No. of Aspiration	One
Final Discharge height from ground level	80 cm
Feeding Height from ground level	36"
Power Requirement	5.0 HP (Three Phase)
Hopper Size (cm)	80 x 60 (L x W)

# Mobile Seed/Grain Cleaning And Grading Unit

The mobile seed/Grain Cleaning & Grading unit is highly suitable for cleaning & grading of different lots in the surrounding areas or even at remote places. The unit comprises of V.B. Elevator with big hopper, Seed Cleaner cum Grader with built in dust collector for pollution free environment. The unit is mounted on heavy duty trolley with bigger size 4 nos. wheels for movement even in undulating land. The whole plant can be operated either by electricity or by Tractor PTO/Diesel Gen. set. A tool box & stepny is provided to handle day to day maintenance works.



## Specifications :

Model No.	KMGU242
Capacity	2.0 TPH
No. of Screens of Grader	Two/Three
Screen Size of Cleaner cum Grader	90 cm x 180 cm
No. of Aspiration	2
Deck Size of Gravity Separator	92 cm x 200 cm
Final Discharge height from ground level	100 cm
Feeding Height from ground level	Upto 100 cm
Power Requirement	11 H.P
Hopper Size	90 cm x 60 cm

# Mobile Seed/Grain Processing Unit

The mobile seed/Grain Processing unit is highly suitable for cleaning & grading of different lots in the surrounding areas or even at remote places. The unit comprises of V.B. Elevator with big hopper, Seed Cleaner, Seed Grader with built in dust collector for pollution free environment & Sp. Gravity Separator. The unit is mounted on heavy duty trolley with bigger size 4 nos. wheels for movement even in undulating land. The whole plant can be operated either by electricity or by Tractor PTO/Diesel Gen. set. A tool box & stepny is provided to handle day to day maintenance works.



## Specifications :

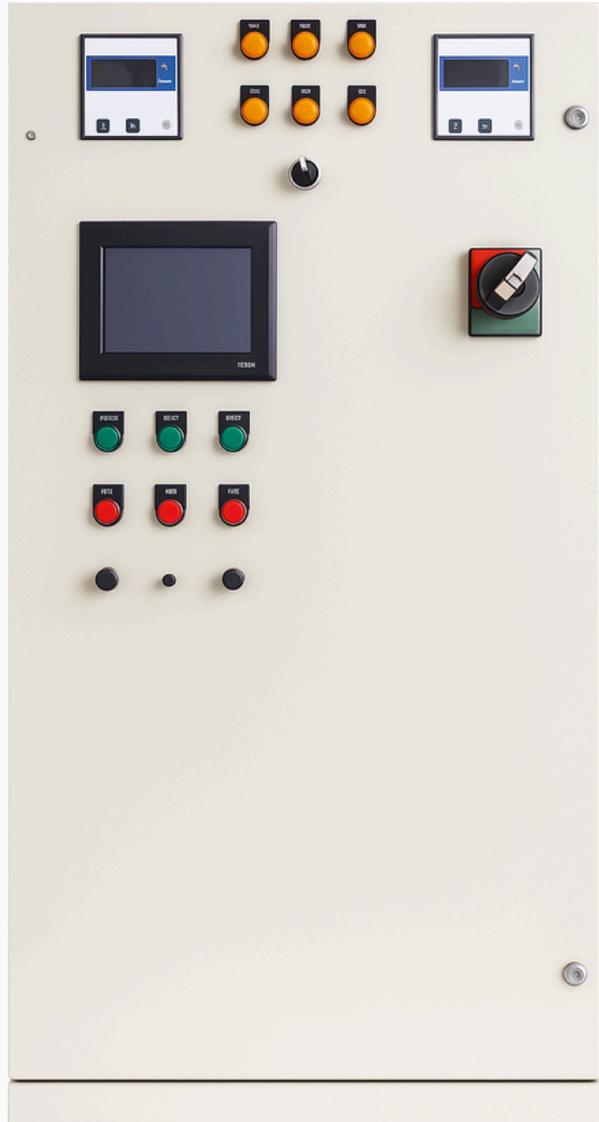
Model No.	KMPU242-CGSG
Capacity	2.0 TPH
No. of Screens of Grader	Two/Three
Screen Size of Cleaner & Grader	90 cm x 180 cm
No. of Aspiration	2
Deck Size of Gravity Separator	92 cm x 200 cm
Final Discharge height from ground level	100 cm
Feeding Height from ground level	Up to 100 cm
Power Requirement	14.5 H.P
Hopper Size	90 cm x 60 cm

# Electric Control Panel

The Electric control panel is made of MS sheet, duly powder coated after pre treatment, vermin proof, comprising of main on/off switch, aluminum bus bar with heat shrinkable sleeves, one earthing on both side & change over switch (voltmeter, ammeter, phase indicators etc.) where as output supply to motors is through industrial MCB, starters with protection Relay & fuse, push button. 15 AMP sockets of 2 nos. shall be provided. The electric panel is totally enclosed to protect from extreme and ambient conditions besides safety precautions. All the electricals used shall be of Siemens/ABB/ Schneider, etc.

## Optional

- Centralize Display Panel with PLC/IMIMIC
- Remote Push button station.



# Grain Moisture Meter

The Grain Moisture Meter is a compact and reliable instrument designed to determine the moisture content in a wide variety of grains and seeds. It is used for food grain, pulses and oil seeds and vegetable seeds etc. Direct Reading Display for all commodities. Instant moisture percentage reading by pressing a switch. No requirement of electrical adjustments. It is an essential tool for farmers, grain traders, processors, and research laboratories where accurate and quick moisture testing is critical for storage, processing, and trade decisions. The device comes equipped with a calibrated dial or digital display that provides instant readings, reducing analysis time and ensuring prompt decision-making. The sturdy construction ensures long-term usage under different working conditions, from farms to storage facilities.



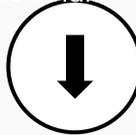
## Specifications :

Measuring range	4.5 to 40%
Accuracy	0.2%
Principle	Resistance measurements
Display	3 Digit LED
Temperature	Automatic/Adjustment
Weight	9.5 kg(approx)
Size (L*B*H in cm)	30*17*19(approx)
Power	6(9 volt) dry cells or 230V, 50Hz as through adapter



# CONTACT US

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