



VISHWA AGRO TECH AND BIO-TECH

Manufacturers, Suppliers & Exporters of Agro & Food Machinery

Factory: No.84, Road No.8, KIADB Industrial Area, KADAKOLA,
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UDYAM-KR-22-0016172 GSTIN: 29AFMPB2257H1ZF IEC Code No.: 0715001744

A Brief Insight On

“VISHWA” MILLET PROCESSING PLANT

VISHWA

From

VISHWA AGRO TECH AND BIO TECH

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Introduction

According to the Millet Grain perspective it can be classified into two types:

- 1) Naked Grains: These Millets do not have Husk.

Example: Pearl Millet, Finger Millet and Sorghum.

- 2) Husked Grains: These Millets have Husk.

Example: Foxtail Millet, Little Millet, Kodo Millet, Proso Millet, Browntop Millet, and Barnyard Millet.

Millets seeds direct from farmland will have lot of impurities like sand particles, metal pieces, dust, metal particles, glass pieces and other impurities along with the raw materials, which has to be separated.

And the Cleaned Raw material then further has to be processed to separate the Matured Millet grains and the Immatured grains.

After Separating the Matured and Immatured Millet Grains further process of Value Addition takes place depending upon the End Product as per the costumer needs.

Fully Matured Millet Seeds can also be used for Seedling Purpose.

Each Millet Grains has its own distinct features, we design the machines to carry out all the above mentioned process and with the knowledge of Characteristics of each Millet seeds to attain the Best Possible Quality in each step of Processing using our "VISHWA" Millet Processing Machineries.

Drying

Before getting into the Processing of Millets, it is advised to dry the Millets and to reduce the moisture content of the Millets.



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Millet Processing Steps and Machineries.

1) Pre Cleaning Operations

Pre Cleaner Machine: This is the primary cleaning process machine in which the Pre Cleaner machine has got two parts:

- 1) Aspirator Cleaner Arrangement: This part helps in removing lighter impurities like dust and husks from the materials.
- 2) Size Grader Arrangement: This Part will have Deck with Two meshes for Three separations. The Materials will be separated based on its size. Two meshes: First sieve hole size should be bigger than the Required millet size and the Bottom sieve hole should be smaller than the Required millet size. Thus we make Three separations.

Particles Bigger than Millet - Required Millet Size - Particles smaller than Millet

The Size of Millets changes and there is no predefined size for any millets, so it is advised to have sieves wise range of different hole sizes and shapes (like round hole or oblong) and as per the Required Millet size the Sieve with required hole size can be selected and used to get the best possible output.

2) Destoner

Destoner machines are used to separate the heavier impurities like metal, stone, glass particles etc., As an output from this machine we get Millet Grains free from heavier and lighter impurities.



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3) Destoner in Reverse Action / Density Separator

Cleaned Millet Materials in processed in this machine to separate the Matured Millet Grains and the Immured Millet Grains.

4) Huller / De-Husker

The Matured Millet Grains is then processed into Huller machine in which the Husk of the Millet Grain is being removed by making the Millet to hit on a hard surface using a centrifugal impeller. And the Aspirator Cleaner Arrangement along with the machine helps in separating the Husk layer from the Millet Rice.

The husk can be collected can be used as a bi-product for cattle feed.

5) Aspirator Cleaner cum Size Grader Machine

After Hulling the Millets it is then again processed into Aspirator Cleaner arrangement for the remaining Husks to be separated. And then it is processed through Size Grader to separate the broken rice and powder from De-Husking process.

6) Destoner in Reverse Action / Density Separator

The above obtained Millet Rice is then processed into Density Separator to separate the fully matured Millet Rice from un-Husked Millet Rice based on its different in density.

We get UNPOLISHED MILLET RICE at the end of this process.

7) Millet Polisher (if needed)

The Unpolished Millet Rice is then processed into Millet Polisher for polishing Rice. and we get the POLISHED MILLET RICE as the output.

Polisher is a Multipurpose machine it can be used as De-Glumer / De-Beader / Maize-DeGerminator. It can be used for De-Husk and Split Pulses / Dall (with required Pre Conditioning methods).



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Machine Capacities and Power (HP) Required

MACHINE	CAPACITY	POWER (HP)
1) Pre-Cleaner	150-500 Kgs/Hr	1HP/0.75 KW Motor Single Phase/ Three Phase
2) Destoner	150-500 Kgs/Hr	2HP/1.5 KW Motor Single Phase/ Three Phase
3) Huller	60-100 Kgs/Hr	2HP/1.5 KW Motor Single Phase/ Three Phase
4) Polisher(Emery Roller Type)	100-350 Kgs/Hr	3HP/2.2 KW Motor Single Phase/ Three Phase

KINDLY NOTE: Our "VISHWA" Destoner and Grain Mill (Millet) basically Designed and Licensed by CFTRI, Mysore , Grain Mill upon which we did upgrade/improved/modified with our more than 40 years of our experiences in this Agro and Food Processing Machinery and Equipment Manufacturing Industry. We already supplied and running successfully throughout India, directly to FPOs and NGOs and KVKs and Private parties.

Our Pre cleaner, Destoner machines can be used for cleaning and grading of all Oil Seeds like Sesame/Jingelly Seeds, Groundnut Seeds, Saff flower/Kushbi Seeds etc., and also for All Grains, Spices, Coffee beans etc., These machineries can be used to separate Matured and Immature Seeds. Matured Seeds can be used for SEEDLING Purpose for farmers.