

MULTICROP DECORTICATORS



MODEL
DECO 750

AB For Maize, Sorghum, Millet and Rice

AB Powerful aspiration to draw off bran

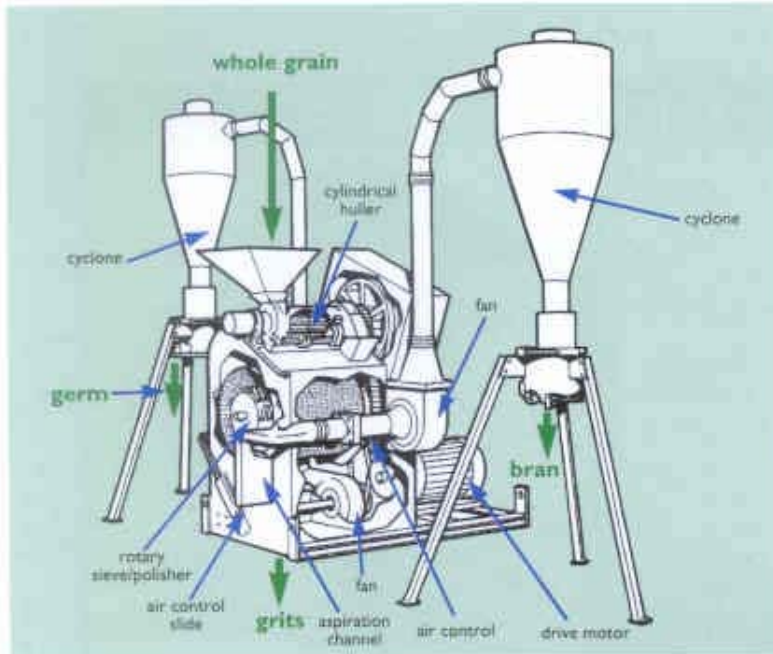
AB Bran and germ bagged from cyclones

AB Finely adjustable for optimum results

AB Achieves high product recovery rates

AB Extra robust construction for long life

Multipurpose machines that are designed for efficient performance and are built to last.



Two cyclones with bag holders are provided to collect the bran and germ or rice husk.

A feed hopper is fitted on the top of the machine and the end product is discharged via a spout.

OPERATION : Maize, sorghum and millet should be dampened shortly prior to processing in order to soften the bran so that it becomes more pliable and less likely to disintegrate during the hulling process. The cylindrical huller(s) break the maize into grits - in the process of which the germ is released and bran particles fall off in flakes. The whole product is then passed through the rotary sieve, the action of which pushes the germ particles through the screen material and into the chamber below from where it is drawn by a fan into a collection cyclone for bagging. Grits and bran are discharged into the aspiration channel in which the bran is lifted away from the grits and into the second collection cyclone. Clean grits are then collected for on-

APPLICATION : In the case of maize, sorghum and millet. Alvan Blanch Decorticators are generally used as part of a complete flour milling line, although they may simply be coupled to a hammermill of appropriate size. On larger plants, two or more decorticators can be used and it is also recommended to add facilities such as; cleaners, destoners, sack weighers etc, (literature available on request).

Paddy rice can also be processed in the decorticator and is milled in the same way as in a conventional huller/polisher. The aspiration facility of this machine gives the hulled rice a clean, dust free finish as well as helping to cool it.

CONSTRUCTION : The decorticators are of extremely robust construction and comprise components of the highest quality.

The basic decortivating process is performed by the cylindrical huller(s) which consist of a specially chilled and hardened cast iron cylinder in two parts which rotates inside a concave screen and against an adjustable blade. The size of screen is interchangeable to suit the type of grain to be processed. The huller(s) are mounted on a rotary sieve/polisher which comprises a drum fitted with leather thongs spinning at high speed inside a perforated steel screen.

An aspiration channel is fitted on the outlet of the rotary sieve/polisher, with airflow generated by a powerful fan with incrementally adjustable control damper.

processing in a hammermill.

On maize, the recovery rate for grits is typically 70%, with 20% germ meal and 10% bran.

In the case of rice, the action of the huller removes husk and bran layers from the endosperm and the rotary sieve/polisher adds a final lustre to the rice. The fan in the bottom chamber draws the husk and bran and delivers it to the collection cyclone. The rice is passed through the aspiration channel which removes any remaining dust from the grains.

OPTIONAL EQUIPMENT:

Drive - diesel drive is offered in place of electric motors.

Predampening - can be automatically performed by a device fitted to a feed auger - in which case a holding hopper over the decorticator is also provided.

| SPECIFICATIONS | | | | | | | |
|----------------|------------------|---------------------------------|----------------------|------|------|-----------------------|------|
| MODEL | DRIVE KW (HP) | APPROX (1) CAPACITY KG/HR | DIMENSIONS (2) MM | | | SHIPPING SPECS (2) | |
| | | | L | W | H | | M3 |
| DECO 375 | 15 (20) | 375 | 1650 | 900 | 1300 | 3.0 | 800 |
| DECO 750 | 30 (40) | 750 | 1730 | 1100 | 1900 | 4.8 | 1300 |

NOTES

- (1) Capacities quoted are typical and apply to most crops, although variations will occur depending on varieties required, degree of milling etc.
- (2) Dimensions given are nominal and relate to the machine without cyclones fitted.

In accordance with our policy of continuous development, we reserve the right to change specifications and prices at any time without notice or incurring liability to purchasers. All goods supplied according to our published terms and conditions of sale (copies on application)

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