

PADDY HUSKER

ELECTRO-PNEUMATIC TYPE



Experience
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INDIAN FOUNDRY WORKS

Paddy dehusking is a major function in Rice Milling operation. A major part of milling profit depends upon the performance of paddy dehusking machine. The more efficiently it performs, breaking minimum grains, giving more output, consuming lesser power, lower expenses of consumables i.e. more average of Rubber rolls. It all depends upon its accuracy in manufacturing.

We at IFW take special care in its accuracy so that it must function so efficiently that at higher production it should maintain its maximum productivity. In conventional rubber roll type husker, an adjustment of clearance between rolls is required frequently which is quite troublesome. This adjustment is considered as the most important operation. This machine by IFW eliminates all of such troubles and makes the use of paddy husker so easy that any operator can operate it easily.

Design

The husker consists of the feeder, the huller, and the electro pneumatic control box. The feeder comprises the plexi-glass inlet, the swiveling hopper, belt driven flute for universal flow of grain, the self-centering feed duct and the adjustable throughput limiting device with scale. The huller includes two standardized rubber rolls of 10", with the movable roll being mounted on a pneumatically actuated pivoting mechanism. Both rolls are driven by double V-belts with the roll pressure resulting from the difference between the motor weight and the force exerted by the pneumatic cylinder. The electro-pneumatic control box houses the device for the control of the feeder and of the roll engagement and disengagement system.

Working Principle

The material to be hulled is fed through a gravity spouts and Plexi glass inspection window to the spring suspended swiveling hopper of the feeder. The proximity sensors in the feed section measures the material level and by electro-pneumatic means-effects the engagement and disengagement of the movable roll and the release/interruption of material feed as a consequence any underloading and irregular wear of the rolls is avoided. The maximum throughput for a given desire hulling degree and processing capacity is obtained by manual adjustment of fee gap.

The two rubber roll which rotate at different speeds and in opposite direction, hull the rough rice. The pneumatic system allows accurate setting of the hulling degree, maintaining it constant over the entire service life of the rolls.

This machine is a vee belt driven machine its double vee belt runs in such a manner that the belt tension is not effected by the roll wear. The proximity switch inside the housing protect the machine and in particular the belt drive, in the event of material discharge trouble.

A cooling fan has been provided for rubber conditioning and their long life. The hopper designed is channel system is provided for uniform spray of the material.

Features

- High capacity machines
- Less breakage of grain
- Rigid and monocoque construction
- Very high quality material used
- Low noise operation
- More output with lesser power consumption
- Longer life of rubbers than others.

Size	Capacity (Paddy)	Motive Power	Power Reqd.	Space Reqd.
10"x10"	2 To 5 Ton	10 + 1	8.25 Kw	76 x 107 x 255 cms.

Due to continuous engineering improvements design & specifications are subject to change. Pictures shown in this folder are representative and not the entire range.



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