

REAPER BINDER





Used for Grain crops of Height up to 85 to 110 cm.

- Field Capacity: 0.4 ha/h
- Fuel consumption:1 l/h
- Cutter Bar for Harvesting Barseem, Mentha, Lucern, Paddy Stubbles and Other Fodder Crops can also be attached to the same machine.

A sprayer attachment with capacity of 250 I can be mounted on the same machine.

Reaper-Binder is a machine that reaps the crop as well as binds it simultaneously.

This machine ensures 100% recovery of straw with negligible grain losses at a surprisingly low cost of operation.

This machine is mainly used in Wheat, Paddy, Oats, Barley and other grain crops.



Width of Cut	1.2 m
Height of Cut	3 to 5 cm.
Engine	10.2 HP, Air Cooled Diesel
Gear	4 Forward & 1 Reverse
Weight of Machine	4 Qtl.



REAPER BINDER

TECHNICAL FEATURES

Engine: Diesel 9KW



Gearbox: 4 forward speeds—1 reverse speed

Speeds: Km/h: 1st/5.4—2nd/7.4—3rd/10— 4th/14.2—RS:6.1

Pneumatic wheels: 4,50-19. 5,00-14 optional

Cutter bar: 1.27-1.40 m

Binding implement: It cuts and

makes sheaves of wheat with

max. height: 1.60 m

Min. height: 0.35 m

Crop binding height at 28 cm.

Avg. fuel consumption l/h: 1.4

Avg. hourly output with cutter bar: 7500 sq.m/h

Tractor front mounted reaper

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Field capacity : 0.4 ha/h when operated at forward speed of 2.5-3.5 km/h. Cost of machine is Rs. 30,000/-.

Cost of operation is about Rs. 1000/- as against Rs. 2000/ha by traditional method.



Components of a self propelled reaper

Engine

Power transmission system Lifting & gathering unit Cutting unit Windrowing unit



Cutterbar Parameters affecting performance

Adjustment of cutterbar Speed of cutterbar Registration Length of the stroke Cutterbar drive mechanism Centurion UNIVERSITY Shaping Lives... Empowering Communities...

REGISTRATION

- If the stroke length is same as guard spacing, the knife sections are centered in the guards at each end of the stroke.
- A knife is said to be properly registered when the knife travels equal distance from the centerline of the guards at the end of the each stroke
- Adjustment is made by moving the entire cutter bar in and out w.r.t pitman crankshaft.
- It is required for an even job of cutting and unclogging of the cutter bar.
- Poor registration also increases draft



ALIGNMENT

If the alignment is proper than the pitman and the knife section will be in line (Plan View) when the mower is in operation.



CUTTERBAR

