

Tractor Operated Garlic Dibbler for Raised Beds

Utility

About 65-85 man-days/ha are required for planting of garlic cloves manually. Considering the economic importance of the garlic production, a tractor-drawn eight row garlic dibbler has been developed for sowing garlic cloves at recommended spacing with high accuracy. The machine is capable of planting garlic cloves at uniform depth and maintains equal row to row and plant to plant spacing.



Specifications & Performance results		
Broad beds size, mm	:	Top width: 1200, Furrow width: 300, Height: 150
No of row	:	8
Spacing, mm	:	150 (R×R), 100 (P×P)
Metering unit	:	Chain-cup type
Dibbling unit	:	16 cups in one row
Stationary cup unit	:	8 cups
Power transmission unit	:	Ground wheel cum shaper
Depth of operation, mm	:	40-60
Forward speed, km/h	:	2.0-2.5
Effective field capacity, ha/h	:	0.20-0.25
Field efficiency, %	:	70.0-75.0
Missing percentage, %	:	2.0-5.0
Multiple percentage, %	:	5.0-10.0
Cost of machine, Rs	:	95,000/-
Cost of operation, Rs/ha	:	3,500-3,800/-

Benefits over conventional/traditional practices

- Placement of seeds at equal depth and uniform spacing.
- Save 77% cost and 97% labour as compared to manual dibbling.
- 30-35% saving in seeds as compared to commercially available garlic planter.

Design: ICAR-CIAE, Bhopal

Commercialization Status: Ready for commercialization

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