

Tractor Operated Cotton Stalk Puller

Utility

Tractor operated cotton stalk puller can be used for uprooting of deep rooted crop stalks like cotton and pigeon pea. It has a pair of long counter rotating tapered drums covered with thick rubber sheets. Clearance between two counter-rotating drums in running condition is adjustable to take care of variation in diameter of stalks. Chain conveyor conveys the uprooted stalks to rear of the machine.



Specifications & Performance results		
Power source, kW tractor	:	26 and above
Type of stalk pulling mechanism	:	Counter rotating tapered drums
Row spacing adjustment, mm	:	>450
Actual field capacity (ha/h)	:	0.18
Forward speed, km/h	:	1.2
Field efficiency, %	:	80
Uprooting efficiency, %	:	86-94
Number of plants uprooted per min	:	70-90 (single row in HDPS) 36 (single row in conventional planting)
Cost of the machine, Rs.	:	80,000/- (Single row)
Cost of operation, Rs/h	:	700/-

Benefits over conventional/traditional practices

- Savings in terms of time is 86% and cost is 60%.
- Labor requirement with machine reduced to 8-12.5 man-h/ha compared to 77 man-h/ha using manual stalk puller.

Design: ICAR-CIAE, Bhopal

Commercialization Status: Commercialized

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