

AGRICULTURAL ENGINEERING

TRACTOR DRAWN PNEUMATIC PLANTER

A tractor drawn pneumatic planter has been designed by the Central Institute of Agricultural Engineering (CIAE), Bhopal for placement of seeds at desired depth and spacing in the soil for a better crop stand and higher production and productivity. The pneumatic planting concept is based on the suction principle, in which an aspirator is used to develop suction pressure in the metering chamber of the pneumatic disc. A few seeds are held against the orifice hole made on the periphery of seed metering plate due to suction. The seeds remain attached at the hole till it reaches to a position where the suction pressure is cut off. As soon as the suction pressure is cut off, the seeds fall on the soil surface due to gravity.



Tractor drawn pneumatic planter

TECHNICAL SPECIFICATIONS

Number of rows:	Adjustable 6, 4, and 2 rows and optional 10 rows.
Seed metering:	Pneumatic disc suction principle.
Suitability for crops:	Rapeseed mustard, soybean, sunflower safflower, groundnut, Pigeon pea, cotton, maize, wheat, pea and okra, etc.
Planting spacing:	Row spacing and hill spacing in a row are adjustable as desired.
Special provisions:	Provision for inter row and check row planting.
Power source requirement:	35 H.P. Tractor for operation.
Capacity:	0.5–0.6 ha/h (2 m tool bar).
Overall length:	200 cm (without line markers).
Overall width:	152 cm.
Overall height:	200 cm.
Weight:	300 kg (empty).
Hopper capacity:	10 kg each row.

PRICE

Rs 48,000 (Rupees Forty Eight Thousands) approximately

AVAILABILITY

1. Central Institute of Agricultural Engineering Nabibagh, Berasia Road, Bhopal-462 038
2. M/S Vinod Enterprises, 104, Sector-I, Industrial Area, Bhopal.

For more details contact:

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