

Modified Knapsack Sprayer

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Problem addressed:

The conventional knapsack sprayers have certain limitation like poor work rate, problem of blockage of the nozzle, pressure drop after short duration of use and poor pressure resulting less effect of pesticides on the pests/insects, etc. The idea of making such device came from working on the limitation of conventional knapsack sprayer thereby providing higher productivity, higher pressure, less use of pesticides and effective operation.

Product:

This is an improved knapsack sprayer which contains pressure chamber, which stores the pressure for longer time after pumping. This sprayer also contains dual nozzle boom, which covers more spraying area. The present sprayer has also provision of changing stroke length for varying the pressure and feed rate.



Technical Specifications	<ul style="list-style-type: none"> • Tank capacity (liters) 15 • Empty weight (Kg) 6 • Pressure chamber YES • Working Pressure (Kg/cm²) 10 • No .of Booms Two • Provision of Stroke length to vary pressure & delivery rate YES • Pump type Piston pump
Key Competitive Advantage:	<ul style="list-style-type: none"> • This is only knapsack sprayer with dual boom, pressure reservoir and provision of varying the discharge rate. • The sprayer has the provision of fitting twin nozzles for covering dense crops employing a single person. • It can cover 0.13 ha/h with a single nozzle and over 0.2 ha/h with double nozzles
Time to deliver:	15 days after placing confirmed order and full payment
Price:	Rs. 1500 (Ex-stores+packaging). The price does not includes transportation cost, taxes etc.
Achievements:	Innovator has been awarded in the 7 th National Award Function of NIF (2013).



	Innovator has sold 1000 sprayers till date.
IPR Status:	Indian Patent Filed (1669/MUM/2011)
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