



Rakshak 400 : Tractor Mounted Sprayer



Shaktiman RAKSHAK-400 Tractor Mount Sprayer is fabricated using the finest quality raw material. Equipped with modern technology that ensures its accuracy & quality. With the help of our manufacturing unit & a team of adroit professionals we have become one of the foremost names in the market by offering high grade Agriculture Sprayers.

This Sprayer Machine is well acknowledged amongst our customers due to its trouble free performance and sturdy construction. Available in 5 different variants & optional attachments to cater maximum needs of Farmers for Spraying Practices.

Features

- 400 litres HDPE Chemical tank with lid filter.
- 40 litres circuit cleaning tank.
- 15 litres tank for hand wash.
- Diaphragm Pump, suction capacity of 54 Litres per minute.
- Boom Span of 12 Meters (40 Feet).
- Italian make two way nozzles with ceramic tips. Each Nozzle has an independent shut-off.
- Ultimate Agitation Perfect flow of liquid within the tank and assure solution is constant mixed.
- ADVANCE "By pass system" For Perfect flow of liquid.
- Capacity of 100 to 300 Metre Delivery Hose with Brass Gun.
- 3-Point linkage with boom mounting, comprising free-standing 400 litres tank mounting frame.
- PTO Shaft Drive.
- Auto filling attachment.
- Optional Butterfly Spraying unit for Small Orchards.
- Optional Mechanical Slider Boom.
- All Optional Attachment & accessories detachable (On bolts not welded).
- Preferable for all types of Pesticides, Insecticides, Herbicides & Fungicides.



World's Largest Manufacturer of Rotary Tiller

Rakshak 400 : Models-Variants

Rakshak with Manual 12 meter Boom



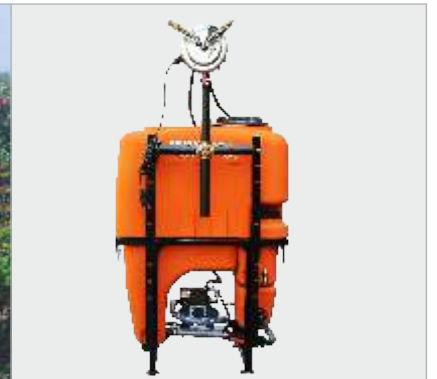
RAKSHAK with Hose Reel & Spray Gun



RAKSHAK with Slider Mechanical 12 meter Boom



RAKSHAK with Butterfly for Small Orchards



Rakshak 400 : Key Features



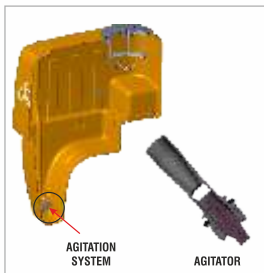
Diaphragm Spray Pump

- Semi Hydraulic Diaphragm Pump is designed to ensure a perfect mechanical balance and better volumetric distribution of the liquid. Incorporate a new pulsation dampening system which absorbs pressure on all circuit.
- Suction capacity of 54 Litres per minute.
- All moving parts are completely lubricated in oil bath.
- Oversized and separate suction and pressure circuits, create a smooth flow of the liquid & no loss of pressure
- Oil tank fitted with a “pre- deformed” diaphragm to ensure correct oil level.
- Special DACROMET® treatment: it represents the best solution ensuring wide mechanical and chemical resistance; low maintenance.
- Crankshaft stroke reduced, which increases diaphragm life because diaphragms are not stressed.
- One of the best diaphragm materials : **Buna**
- Exclusive design which increases diaphragm efficiency.



Ceramic Nozzle Tips (Hollow Cone & Flat Fan both) & 2 Way Nozzle Holder

- Availability Ceramic Tips with different discharge liter per minute & appropriate discharge angle.
 - 80° Degree Hollow Cone: (0.77 up to 3 Liter/minute)
 - 110° Degree Flat Fan: (0.92 up to 3.5 Liter/minute)
- Wear resistance & Suitable for all types of chemicals.
- Fine Low micron Size Spray Droplet ensure excellent Coverage & Penetration.
- Nozzle Equipped on one side Hollow Tip, on other Flat fan & at middle off option
- Maximum Working Pressure 20 bar (290psi)
- Diaphragm check valve - Compact model - Reduced dimension.



AGITATOR

- Ultimate Agitation
- Placed inside the tank and it is fed with spray liquid from the pump. From these holes the liquid immerses as jets to provide agitation to the whole body of the liquid.
- ADVANCE “By pass system” For Perfect flow of liquid which assures solution is constant mixed
- Sprayer without agitator should not be used to apply any type of pesticide / Chemical emulsion.



Circuit Cleaning.

- Circuit cleaning is one vital requirement in any kind of spraying.
- RAKSHAK has Integrated cleaning system with possibility of cleaning the circuit & Chemical tank = no product dilution.
- The valve on the suction side is set to “clean water” and the valve on the pressure side to “spraying”
- Suck clean water from the Circuit cleaning tank into the spray line and thereby ensures an effective cleaning of the spray/circuit line, Chemical Tank, Nozzles, Hose & Spray Pump Unit.
- Ensure no chemical deposit & no adverse response of chemical on crop.
- Keep machine trouble & maintenance free



Auto Filling

- Refills Chemical Tank (**400** Liters in 03-04 min.)
- Specially designed strainer in aluminum material for better strength
- Time, Energy, Effort Savings equal to profit.

Technical Specification

Tractor Power Requirement	35 HP (Category-II) minimum
Tractor P.T.O Speed	540 rpm
Attachment Type	3-Point Linkage Must
Machine Wt. (Approx.)	230 kg
Main Frame Size	960 x 580 x 720
Chemical Tank	400 ltr
Circuit Cleaning Tank	40 ltr
Smal Tank (Hand wash)	15 ltr

Boom Assebmly

Structure Length	12 m (40 ft) Flexible Fabricated
Actual Structure Length	11.62 m (11620 ± 10 mm)
Fold Condition	2.51 m (2510 ± 10 mm)
Semi Fold Condition	7.10 m (7100 ± 10 mm)
Spraying Span	12 m (12000 ± 10 mm)
Boom (Number of Division)	5 section
Number of Nozzles	24 nos (5+5+4+5+5)

Nozzle Assembly

Nozzle Type	2 way nozzle holder (with cut-off option)
Nozzle Discs	Ceramic Material
Nozzle DLPM & Spray Angle	** 80° Degree Hollow Cone: (0.77 up to 3 ltr/min)* 110° Flat Fan: (0.92 up to 3.5 ltr/min)
Disc Required Pressure	"Min. 7 bar to Max 20 bar for Hollow Cone Min. 3 bar to Max 7 bar for Flat Fan"
Distance each nozzle	50 cm

Diaphragm Pump

Pump revolution	Max : 540 .
Suction Capacity	54 ltr/min
Power Required	Minimum 5.2 HP
Normal Working Pressure	100-215 PSI (7-15 bar).
Max Pressure	580 PSI (40 bar)
Weight (Dry)	13.5 kg (approx.)

Control Valve Assembly

Max Output	90 ltr/min
Pressure	580 PSI (40 bar)
Valve	Ball Valve: (2+1)
Suction Filter	Size = 1 1/2" with Valve release knob

The company reserves absolute rights to modify the specifications of machine and components therein without any prior notice. The Actual Machine can be different from the picture shown.

Spray Hose Reel (Optional)

Number of Side Hose Reels	2
Hose Capacity for Side Reel	100 upto max 150 Meter (Each Side)
Number of Back Side Hose Reel	1
Hose Capacity for Back Reel	100 upto Max 300 Meter

Mechanical Sliding Boom Structure (Optional)

Boom Sliding Boom Adjustment	Mechanically Operated Mechanical (Can be operated from driver seat)
Sliding Boom Hieght (GC)	Min. 1.5 Feet upto Max 7 Feet
Safety	Mechanical lock at any height through Pin. Others
Spray Gun	56 cms Length (Brass)
Box Size (LxWxH)	100x50x60 inches



RAKSHAK with back Hose Reel & Spray Gun



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