



SPRAY STAR 1750 / 1750D

MODELS	1752/1752D	Computer Spray Control System w/ GPS
	1754/1754D	Electric Spray Control System
POWER		
MODEL 1752, 1754	31HP (23 kW) twin cylinder OHV gasoline engine 12 volt electronic ignition, full pressure lubrication with oil filter.	
MODEL 1752D, 1754D	34 HP (25.5 kW) three cylinder Diesel liquid cooled engine 12 volt electronic, full pressure lubrication with oil filter.	
CONFIGURATION	4 wheel, mid-mount engine, rear mounted sprayer component	
DRIVE	Hydrostatic variable speed pump, mounted to engine, via coupler. Hydraulic power to two rear wheel drive motors.	
SPEED	Infinitely variable from 0-12 mph (0-20 kph)	
BRAKING	Dynamic breaking through the hydrostatic transmission Hand operated, disc type park/emergency brake	
BATTERY	Automotive type 24F, 12 volt, 900 CCA minimum	
LIGHTS	Equipped with pair of headlights. Rocker switch operated.	
CONSTRUCTION	Heavy gauge square steel tubing, hydraulically formed, electrically welded.	
TIRES/WHEELS	Front: (2) 20-1000 x 10 Ribbed Rear: (2) 24-13.00 x 12Multi-Trac	
STEERING	Hydraulic power steering with orbital motor. Automotive 15 in (38 cm) steering wheel with tilt adjustment. 18 ft (5.5 m) Outside turning circle.	
INSTRUMENTATION	Hour meter, Speedometer, Glow Plug Indicator, Oil Light, Water Temp Light, Speed Lock.	
PRIME MOVER CONTROLS	Single Forward/Reverse Pedal Hydraulic Actuation Electrically operated ground speed control system Hand operated throttle control	
GROUND SPEED CONTROL	Mechanically actuated Smithco "Speed Boss" Ground Speed Control Device to maintain constant ground speed	
SEAT	Deluxe seat, padded, vinyl covered 1 piece molded, High back support, Adjustable operator position	

ELECTRICAL	12 volt battery - 20 AMPS, operator presence switch in seat.
SOUND LEVEL	96dB(A) under normal operating conditions
DIMENSIONS (Inches/cm)	Length: 127" (322 cm) – Width: 65" (165 cm) – Height: 78" (198 cm) Wheel Base: 68" (173 cm) Width with Booms open: 240" (610 cm); Height with Booms folded: 110" (279 cm)
WEIGHT	1750 lbs (794 kg) dry - 3500 lbs (1588 kg) loaded
LIQUID CAPACITIES	Gasoline (unleaded): 6 gallons (22,7 liter) in high density polyethylene tank No. 2 Diesel Fuel: 7 gallons (26,5 liter) in high density polyethylene tank Hydraulic system oil: 5 gallons (19 liter) in high density steel tank
SAFETY & CONFORMANCE	Operator presence switch in seat for engine start Carb-Compliant Gas Tank Complies with all applicable ANSI, OSHA, and European Machinery Directive standards Certified ROPS system with seat belts

SPRAY COMPONENT (Common to all models)

TANK	175 gallon (662 liter), elliptical shape, cross-linked polyethylene construction with UV inhibitors. 16" (41 cm) hinged lid and fillwell with built-in locking device and nylon strainer basket in fillwell Positive feed suction sump
FILTRATION	Downstream spray system protected by "Self-Cleaning" nylon reinforced filter with return to tank and 50 mesh stainless steel strainer
AGITATION	Smithco "Quadra-Jet" agitator with four venturi volume boosters
PUMP	Electromagnetic clutch with toggle switch at operator position 10-70 gallons per minute (38-265 lpm) 10-60 psi (0.7-4 bar) High volume centrifugal type with silicon-carbide seal All stainless steel body, shaft and plugs Built in low pressure warning horn to alert operator to low spray liquid level Built in automatic air bleed system for self re-priming during operation with low liquid levels Belt drive from prime mover engine
PERFORMANCE	Spray performance <ul style="list-style-type: none"> • Application rates: 20-220 gallons per acre • 0.5-5 gallon per 1,000 sq. Ft. • 180-2050 liters per hectare • Production rate 6.4 acres/hour @ 3.5 mph (5.6 kph) • Up to 75 acres per day

SPRAYER CONTROL SYSTEM

Model 1754, 1754D

Raven 203 Electric Controller;

- Master on/off Toggle Switch
- 3 Individual Boom Control Toggle Switches
- Spring loaded remote pressure adjustment switch to control motorized butterfly valve
- Oil-Filled Pressure Gauge
- O-ring seal threadless spray system

Model 1752, 1752D

Raven SCS 440 Computer Spray Control System with GPS Satellite Based Speed Sensor;

- Precise delivery of pre-selected application rate
- 3 Individual Boom Control Toggle Switches
- Record of material applied and area covered
- Foot switch for booms
- O-ring seal threadless spray system

BOOMS

15-493 18 ft. (5.5meters) Dry steel boom with 11 nozzles. Manual operation. Folds behind for transport and storage. Hinges brake away and return to position automatically

17-525 18.5ft (5.5m) 11-triple nozzle triangular structure boom with tips and strainers, 12 volt powered outer section fold/ deploy.

17-550 15ft (4.5 m) 9-triple nozzle triangular structure boom with tips and strainers, 12 volt powered outer section fold/deploy.

OPTIONS & ACCESSORIES

17-505	Foam Marker: Electric Operation, Manual Control
16-129 or 16-906	Hose Reel: 200 ft. (61 m.) Capacity, Manual or electric rewind (Requires 17-507 Mounting Kit)
17-506	Clear Water Wash Tank
15-619	Chemical Clean Load Safe-Fill system
15-622	Weather Canopy
15-835	Tank Rinsing System
30-140	26 Gallon (98 l) Wash Tank System

Smithco "Safe-Fill System"

The Smithco Safe Fill System is a self-contained eduction system that allows the operator to mix liquid and dry chemicals safely and quickly.

- 316 Stainless steel venturi provides highest eduction rate and durability against all chemicals.
- Safety - All crop protection chemistry is mixed at ground level. Cleanload eliminates the need for operators to climb on and around machines while handling expensive and dangerous chemicals. Operator exposure to slips, trips, and falls is reduced. Chemical spill potential is reduced, minimizing operator and environmental exposure.
- Optional suction lance allows the operator to educt bulk liquid and dry chemicals (wetttable powders, dry flowables and water-dispersible granules) from large containers without secondary handling.
- Robust tank and bottle rinse nozzles designed to wash Cleanload hopper and triple rinse chemical containers of residue.

