



SPRAY STAR 2000

MODELS	2002 2004	Computer Spray Control System w/ GPS Electric Spray Control System
POWER	31HP (23 kW) twin cylinder OHV gasoline engine 12 volt electronic ignition, 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. Hydraulic Steering.	
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, Oil Light, Speed Lock.	
PRIME MOVER CONTROLS	Dual Forward/Reverse Pedal Hydraulic Actuation Electrically operated ground speed control system Hand operated throttle control	
GROUND SPEED CONTROL	Mechanically actuated Smithco "Spray 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. Second seat with seat belt optional.	
ELECTRICAL	12 volt battery - 20 AMPS, operator presence switch in seat.	
SOUND LEVEL	84dB(A) under normal operating conditions	

DIMENSIONS (Inches/cm)	Length: 132" (335cm) – w/ booms 137" (348 cm) – w/ Cleanload 151" (384 cm) Width: 72" (175 cm) - Height without Booms: 110" (279 cm) Wheel Base: 61" (155 cm) Width with Booms open:240" (610 cm); Height with Booms folded: 110"(279 cm)
WEIGHT	1990 lbs (903 kg) dry - 3605 lbs (1635 kg) loaded
LIQUID CAPACITIES	Gasoline (unleaded): 6 gallons (22,7 liter) in high density polyethylene CARB tank Hydraulic system oil: 5 gallons (19 liter) in 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 Roll Bar System with Driver Seat Belt

SPRAY COMPONENT (Common to all models)

TANK	200 gallon (757 liter), low profile 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 2004	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
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Model 2002

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

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

30-004	Foam Marker: Electric Operation, Manual Control
30-009/30-010	Hose Reel: 200 ft. (61 m.) Capacity, Manual or electric rewind
17-506	Clear Water Wash Tank
20-503	Chemical Clean Load Safe-Fill system
15-835	Tank Rinsing 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 (wetable 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.

