



## SPRAY STAR 2000

<b>MODELS</b>	<p><b>2002/2002D</b>                      <b>Computer Spray Control System w/ GPS</b></p> <p><b>2004/2004D</b>                      <b>Electric Spray Control System</b></p> <p><b>2005G / 2005D</b> Star Command II Raven E-Pro GPS Mapping System/ PWM with 18.5' Boom.</p> <p><b>2006G / 2006D</b> Star Command II Raven E-Pro GPS Mapping System/ PWM with 20' Boom.</p> <p><b>2007G / 2007D</b> Star Command I PWM / Raven SCS440 with 20' Boom</p> <p><b>2008G / 2008D</b> Star Command I PWM / Raven SCS440 with 18.5' Boom</p>
<b>POWER</b>	<p>31HP (23 kW) twin cylinder OHV gasoline engine 12 volt electronic ignition, full pressure lubrication with oil filter.</p> <p>24.8HP (18.5 kW) Vertical 4-cycle liquid cooled Diesel</p>
<b>CONFIGURATION</b>	4 wheel, mid-mount engine, rear mounted sprayer component. Front leaf spring suspension.
<b>DRIVE</b>	Hydrostatic variable speed pump, mounted to engine, via coupler. Hydraulic power to two rear wheel drive motors. Hydraulic Steering.
<b>SPEED</b>	Infinitely variable from 0-12 mph (0-20 kph)
<b>BRAKING</b>	Dynamic breaking through the hydrostatic transmission Hand operated, disc type park/emergency brake
<b>BATTERY</b>	Automotive type 24F, 12 volt, 900 CCA minimum
<b>LIGHTS</b>	Equipped with pair of headlights. Rocker switch operated.
<b>CONSTRUCTION</b>	Heavy gauge square steel tubing, hydraulically formed, electrically welded.
<b>TIRES/WHEELS</b>	Front: (2) 20-1000 x 10 Ribbed Rear: (2) 24-13.00 x 12Multi-Trac
<b>STEERING</b>	Hydraulic power steering with orbital motor. Automotive 15 in (38 cm) steering wheel with tilt adjustment. 18 ft (5.5 m) Outside turning circle.
<b>INSTRUMENTATION</b>	Hour meter, Speedometer, Oil Light, Speed Lock.
<b>PRIME MOVER CONTROLS</b>	Dual Forward/Reverse Pedal Hydraulic Actuation Electrically operated ground speed control system Hand operated throttle control
<b>GROUND SPEED CONTROL</b>	Mechanically actuated Smithco "Spray Boss" Ground Speed Control Device to maintain constant ground speed

<b>SEAT</b>	Deluxe seat, padded, vinyl covered 1 piece molded, High back support, Adjustable operator position. Second seat with seat belt optional.
<b>ELECTRICAL</b>	12 volt battery - 20 AMPS, operator presence switch in seat.
<b>SOUND LEVEL</b>	84dB(A) under normal operating conditions Diesel - 98 dB(A) under normal operating conditions
<b>DIMENSIONS (Inches/cm)</b>	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)
<b>WEIGHT</b>	1990 lbs (903 kg) dry - 3605 lbs (1635 kg) loaded
<b>LIQUID CAPACITIES</b>	Gasoline(unleaded): 10 gallons (37,9 liter) high density nylon low-perm CARB tank Diesel Fuel 7 gallons (26,5 liter) No.1-D or No. 2-D, S500: Low Sulfur Diesel (LSD) less than 500 ppm or 0.05 wt.% No1-D or No.2-D, S15: Ultra Low Sulfur Diesel (ULSD) less than 15 ppm or 0.0015 wt.% Hydraulic system oil: 5 gallons (19 liter) in steel tank
<b>SAFETY &amp; CONFORMANCE</b>	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)**

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<b>TANK</b>	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
<b>FILTRATION</b>	Downstream spray system protected by "Self-Cleaning" nylon reinforced filter with return to tank and 50 mesh stainless steel strainer
<b>AGITATION</b>	Smithco "Quadra-Jet" agitator with four venturi volume boosters
<b>PUMP</b>	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
<b>PERFORMANCE</b>	Spray performance <ul style="list-style-type: none"> <li>• Application rates: 20-220 gallons per acre</li> <li>• 0.5-5 gallon per 1,000 sq. Ft.</li> <li>• 180-2050 liters per hectare</li> <li>• Production rate 6.4 acres/hour @ 3.5 mph (5.6 kph)</li> <li>• Up to 75 acres per day</li> </ul>

### **SPRAYER CONTROL SYSTEM**

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**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

**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** **17-585** 18.5ft (5.5m) 11-triple nozzle triangular structure boom with tips and strainers, 12 volt powered outer section fold/ deploy.

**17-580** 20ft (6 m) 12-triple nozzle triangular structure boom with tips and strainers, 12 volt powered outer section fold/deploy.

## OPTIONS & ACCESSORIES

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**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  
**14-515/15-618** Water Fill Meter Kit(gal/liters)  
**15-850** Sun Shade Canopy  
**17-590** Lazer-Beam  
**30-141** 26 Gal. (98 l) Wash System with electric pump  
**31-004** All Weather Top (fiberglass)

### Smithco "Safe-Fill System"

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

- 316 Stainless steel venturi provides highest education 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.

