



SPRAY STAR 1000 (10-100-D)

MODELS	1002 Electric Spray Control System 1008 Computer Spray Control System w/ GPS 1010 Manual Spray Control System 1011 Smithco Star Command PWM System
POWER	23HP (17 kW) twin cylinder Briggs & Stratton 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, flange mounted to engine, direct drive via splined shaft. Hydraulic power to two rear wheel drive motors.
SPEED	Forward Speed 0-8 m.p.h. (0-12.8 kph) Reverse Speed 0-3 m.p.h. (0-4.8 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) 20-10-10 Ribbed Rear: (2) 24-13-12Multi-Trac
STEERING	Hydraulic power steering with orbital motor. Automotive 15 in (38 cm) steering wheel with tilt adjustment. 18 ft (5.5m) Outside turning circle.
INSTRUMENTATION	Hour meter, Speedometer, Oil Light, Pump On, Low Pressure Alarm
PRIME MOVER CONTROLS	Dual Pedal Hydraulic Actuation (1 forward, 1 reverse) Hand operated throttle control
GROUND SPEED CONTROL	Mechanically actuated Smithco "Speed Boss" Ground Speed Control Device to maintain constant ground speed Fixed position engine hand operated throttle
SEAT	Deluxe seat, padded, vinyl covered 1 piece molded, ½ back support Adjustable Operator Position
ELECTRICAL	12 volt battery - 24 AMPS, operator presence switch in seat.

SOUND LEVEL	85dB(A) under normal operating conditions
DIMENSIONS (Inches/cm)	Length: 104" (264cm) – Width: 70" (178 cm) – Height: 77" (196 cm) Wheel Base 53" (135 cm) Width with Booms open 180" (457 cm) Height with Booms folded: 110"(279 cm)
WEIGHT	1480 lbs(675 kg) dry - 2248lbs(1025 kg) loaded
LIQUID CAPACITIES	Gasoline (unleaded): 6 Gallon (22,7 liter) in high density nylon low-perm tank Hydraulic System Oil: 5 gallon (19 liter) in high density steel tank
SAFETY & CONFORMANCE	Operator presence switch in seat for engine start Complies with all applicable ANSI, OSHA, and European Carb-Compliant Gas Tank Machinery Directive standards Certified ROPS with Seat Belt

SPRAYER COMPONENT (Common to all models)

TANK	110 gallon (416 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
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 1002 Raven 203 Electric Controller;
- Master on/off Toggle Switch
- 3 Individual Boom Control Toggle Switches
- Spring loaded remote pressure adjustment switch to control motorized valve
- Oil-Filled Pressure Gauge
- O-ring seal threadless spray system

Model 1008 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

Model 1010 Manual type, 3-way section ABS ball valve turns individual boom sections on/off, agitation on/off
Manual Screw type Pressure Adjustment, with pressure gauge

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

17-601 15ft (4.5 m) 9-triple nozzle triangular structure boom with tips and strainers, 12 volt powered outer section fold/deploy.

OPTIONS & ACCESSORIES

10-378 Foam Marker

10-417 Smithco Safe Fill Chemical Education System

10-419 Fresh Water Wash Tank

15-835 Tank Rinsing System

16-129/16-906 Hose Reel: 200 ft. (61 m.) Capacity, Manual or electric rewind

10-422 Hose Reel Mounting Kit for Super Booms

10-417 Chemical Cleanload Safe Fill System

10-365/10-370 Water Fill Meter Kit Gal/Liters

15-622 Weather Canopy

30-141 26 Gal (98 l) Wash System with electric pump

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.

