



SPRAY STAR 1600P

MODELS	1602P Computer Spray Control System 1604P Electric Spray Control System 1610P Manual Spray Control System
POWER	20 hp (15 kw) Two cylinder gasoline engine Air Cooled, 25 amp alternator; 12 volt electric system, electronic ignition, dual element air cleaner, closed breathers system, full pressure oil lubrication system, oil filter
CONFIGURATION	4 wheel, mid-mount engine, rear mounted sprayer component
DRIVE	Three speed mechanical gear drive + reverse Spicer-Dana rear axle
SPEED	1st Gear: 1-3 mph (1.5-5 kph) 2nd Gear: 2-6 mph (3-10 kph) 3rd Gear: 4-10 mph (6-16 kph) Manual "SPRAY BOSS" Ground Speed Control System maintains accurate and consistent speed on all terrain.
BRAKING	Hydraulic drum brakes on rear wheels, Hand lever actuated parking brake.
BATTERY	Automotive type 24F, 12 volt, 900 CCA minimum
CONSTRUCTION	Heavy duty hydraulically formed tubular steel frame with formed steel body panels
TIRES/WHEELS	Front: 20 x 1000 x 10 Multi Rib 4 ply turf Rear: 24 x 13.00 x 12 Multi Trac 4 ply turf
STEERING	Hydraulic power steering with orbital motor. Automotive 15" tilt steering wheel. 17'10" Outside turning circle.
INSTRUMENTATION	Hour meter, Speedometer, Oil Light
PRIME MOVER CONTROLS	Foot Pedal, Brake Pedal and Clutch Pedal Hand operated throttle control
GROUND SPEED CONTROL	Engine controlled governor with hand throttle, actuated Smithco "Speed Boss" Ground Speed Control Device to maintain constant ground speed
SEAT	Adjustable position deluxe seat with back support.
ELECTRICAL	12 volt battery - 24 AMPS, operator presence switch
SOUND LEVEL	84dB(A) under normal operating conditions

DIMENSIONS (Inches/cm)	Length: 112 in (285 cm) –Width: 61 in (155 cm) – Height: 50 in (127 cm); Wheelbase: 60 in (152 cm) Width with booms open: 230 in (584 cm) Height with booms up: 126 in (320 cm)
WEIGHT	1,200 lbs (544 kg) dry; 2,500 lbs (1,136 kg) loaded
LIQUID CAPACITIES	Gasoline (unleaded): 6 Gallon (22,7 l.) in high density polyethylene tank
SAFETY & CONFORMANCE	Operator presence switch in seat for engine start Start switch on clutch pedal Carb-Compliant Gas Tank Complies with all applicable ANSI, OSHA, and European Machinery Directive standards

SPRAY COMPONENT (common to all models)

TANK	160 Gallon (605 liter) Polyethylene: low profile configuration: lifetime guaranty; 16 inch (41 cm) diameter fillwell with nylon strainer basket, hinged cover
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 1604	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,
Model 1602	Raven SCS 440 Based Electronic Spray Control System - Precise delivery of pre-selected application rate - Boom Control (Individual sections) - Record of material applied and area covered
Model 1610	Manual type, 3 section ABS ball valve turns individual boom sections on/off, agitation on/off Manual Screw type Pressure Adjustment, with pressure gauge
BOOMS	15-493 18.5 (5.5 meters) stainless steel boom with 11 nozzles. Electric operation. Folds vertically and forward for transport. 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

14-283	Foam Marker: Electric Operation, Manual Control
16-129/16-909	Hose Reel: 200 ft. (61 m.) Capacity, Manual or electric rewind (Requires 14-311 Mounting Kit)
15-363	Clear Water Wash Tank
16-835	Tank Rinse System
10-366	Chemical Cleanload Safe-Fill System (1602 and 1604 ONLY)
15-836	26 Gallon (98 l) Wash Tank System
14-305	Cab with Certified ROPS system and seat belt

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.

