

## Performance Features



No other sprayer comes close to matching John Deere's fine-tuned accuracy. Every time a gallon of solution goes through the system, the patented flowmeter pulses nearly 900 times per gallon – about 800 times more than other sprayers – and automatically sends this information to the SprayStar controller. The computer compares this reading to machine speed, boom length, and other variables to calculate exactly how much solution is necessary to maintain your chosen application rate.

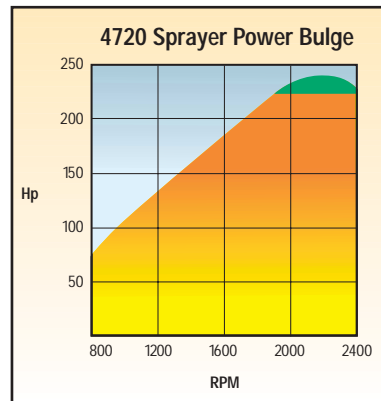


You've never seen a suspension like this – at least not on a sprayer. Each wheel has its own large strut and air spring to completely absorb bumps and jolts. A scissor-type linkage helps keep the wheel tracking properly – much like the linkage on an airplane's landing gear. In fact, the design is based partly on an F-18 fighter jet system. The result? You can practically fly through your fields.

Standard SprayStar vehicle and rate control is integrated into the machine design – not as a third party add-on. It controls many machine and solution system functions in a simple, easy-to-read monitor. SprayStar lets you set and choose from three programmable rates to match your requirements, on-the-go, from 4 to 94 gpm (7 to 356 L/m). Optional AutoTrac, Parallel Tracking and Field Doc data collection software are also available on 4720 Sprayers.



The Auto Air Spring Adjustment option helps level the 4720 for improved traction and performance, especially when operating with a full tank or in rolling, hilly conditions.



A high-torque, 6.8-liter John Deere PowerTech™ engine cranks out 225 horsepower at rated speed. When the engine lugs down, an additional 7 percent power bulge generates more horsepower to help you pull up hills or through muddy or sandy field conditions.



The most comfortable cab in its class, the CommandView Cab offers a standard Personal-Posture air-suspension seat, a sound-dampening acoustical barrier and triple-lip seals, unmatched visibility, simple, well-marked controls, and generous amounts of legroom, headroom, and elbowroom.



Unmatched coverage. When the insects are biting or weather is moving in, there's no time to sit around waiting on parts or service. That's where your John Deere Commercial Spray Center comes in. Each Spray Center has made a

significant investment in the technical training and parts inventory necessary to support large-scale commercial applicators and producers. Spray Center technicians, sales, and parts personnel know what it takes to keep your equipment running smooth and strong, so you can stay in the field and out of the shop. To find your nearest John Deere dealer or Commercial Spray Center, visit us online at [www.JohnDeereAg.com](http://www.JohnDeereAg.com).

## 4720 Sprayer Specifications

### Engine

Model	John Deere PowerTech™ Diesel, Tier II
Horsepower	225 hp (168 kW)
Power bulge	232 hp (173 kW)
Engine rated speed	2,400 rpm
Number of cylinders	6
Displacement	6.8 L (414 cu. in.)
Cooling system	Pressurized liquid

### Capacities

Fuel tank	95 gal. (360 L)
Cooling system	25 qt. (24 L)
Crankcase (includes filter)	19 qt. (18 L)
Hydraulic reservoir (full to sight tube)	17 gal. (64 L)
Final drives, front	.31 U.S. oz (917 cc)
Final drives, rear	.2 U.S. qt (1.9L)

### Electrical system

Alternator	150 amps
Batteries	Two 12-volt in parallel

### Drive system

Type	Variable hydrostatic (tandem pumps)
Wheel motors	Four variable displacement
Final drives (rear)	Planetary gear–30.1:1
Final drives (front)	Planetary gear–23.5:1
Shifting	4-range, electrohydraulic, shift-on-the-go

### Ground speed

(With standard tires and empty solution tank)

1st Range, 4WD	0-13.6 mph (0-21.9 kmh)
2nd Range, 4WD	0-17.4 mph (0-28 kmh)
3rd Range, 4WD	0-20.2 mph (0-32.5 kmh)
4th Range, 4WD	0-29.6 mph (0-47.6 kmh)

### Hydraulic system

Type	Pressure and flow compensated, closed-center
Pump	Axial-piston design
Pump displacement	2.77 cu. in. (45.4 cc)
Standby pressure	440 psi (2068 kPa)
Pump rated output at rated engine speed	30 gpm (114 L/min.)
Maximum system pressure	3,000 psi (206.8 bar) (20,684 kPa)

### Steering

Type	Hydrostatic power
Turning radius (120-in. wheel spacing)	24 ft. (7.3 m)

### Brakes

Primary service	Hydrostatic transmission
Secondary service	Foot activated rear caliper brakes
Park brake	Internal wet disc

### Tires

Standard	380/90R46
Narrow row-crop (optional)	320/90R46
Optional	420/80R46
Radial Flotation	20.8 R 38

### Suspension

Type	Independent strut with adjustable air springs
Travel	8 in. (20 cm)

### Wheel spacing

Range of adjustment	120 to 152 in. (305 to 386 cm)
Type	Manual or Hydraulic, independently adjustable

### Spraying system

#### TANK

Material	Stainless steel (standard), Polyethylene (optional)
Capacity	800 gal. (3,028 L)
Fill opening	16 in. (40.6 cm)
Agitation	Two nozzles
Quik-Fill	2 in. (5 cm) optional 3 in. (7 cm) standard

#### HOSE

Pressure, minimum	150 psi (1,035 kPa)
Machine	Two-braid
Boom	Two-braid

#### STRAINERS

Suction side	30 mesh, flush-through type
Pressure side	50 mesh, with spin-on-cover
Boom section line strainers (optional)	80 mesh

#### SOLUTION PUMP

Make and model	Hypro 9304C-HM5
Type	Centrifugal, 2-in. (51 mm) inlet, 1.5-in. (38 mm) outlet
Drive method	Variable-speed hydraulic motor

#### BOOM SPRAY-CONTROL VALVES

Type	Electric-motorized valve with stainless steel ball and stem
Arrangement	Banked together

#### RATE-CONTROL SYSTEM

Make and model	John Deere SprayStar system
Type	Flow-based
Flow control	Variable-speed solution pump

### Boom lift arms

Height control	Hydraulic
Capacity	2,900 lb. (1,315 kg)
Lift cycle time	10 sec. (lower), 8 sec. (raise)

### Booms

Type	60/80 and 60/90 ft. (18.3/24.4 and 18.3/27.4 m)
Construction	Square tubular steel with three-dimensional cross sections
Folding	Fully hydraulic
Boom height	27 to 86.5 in. (69 to 220 cm)
Suspension	Exclusive multi-axis (vertical, center-pivot roll, and yaw suspension)
Plumbing	5-section system with SprayMaster triple nozzle bodies on 1-in. (25.4 mm) polypropylene pipe
Nozzle spacing	20 in. (51 cm) A custom nozzle kit lets dealers install nozzles at 15, 18, 19, 20, 22, 30, 36, 38, and 40 in. (42, 46, 48, 51, 56, 76, 91, 97, 102 cm) spacings
Folding/unfolding cycle time	9 seconds

Type	60 ft. (18.3 m)
Construction	Square tubular steel
Folding	Fully hydraulic
Boom height	27 to 86.5 in. (69 to 220 cm)
Plumbing	3-section system with single nozzle bodies on .75-inch polypropylene hose
Folding/unfolding cycle time	9 seconds

### Shipping weight *(approx.)*

Base without boom (all tanks empty)	19,700 lb. (8,936 kg)
With 60-ft. boom	21,100 lb. (9,571 kg)
With 80-ft. boom	22,600 lb. (10,251 kg)
With 90-ft. boom	22,700 lb. (10,296 kg)

### Transport width

60-ft. boom	143.5 in. (3.9 m)
60/80 ft. and 60/90 ft.	142 in. (3.6 m)

(Specifications and design subject to change without notice.)

