

Premier Performance

In front of the field



SARITOR

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The SARITOR with infinitely variable four-wheel drive hydrostatic transmission delivers the traction to stay in front of the spray program.

SARITOR is HARDI-built from the ground up and sets new standards in broad acre spraying. It offers 1100 & 1300 gallon tank capacities with 90' to 132' TERRA FORCE booms.

Crop clearance is 54" and the track width can be hydraulically adjusted from 120" to 157.5" providing a large stable platform for boom stability.

Four ride-level air bag suspension elements and hydraulic shock absorbers provide smooth spray performance and exceptional operator comfort.

A heavy duty hydraulic fold down ladder and wide walkway with safety hand rails allow easy access to the cab.

The cab is generous and uncluttered with ample room for the operator and instructor. Visibility in all directions is exceptional.



Tank:	1100 gal. - 1300 gal.
Engine:	Cummins 6 cyl. 275 hp
Transmission:	4WD hydrostatic transmission
Controller:	HC 9500 controller
Chem transfer:	TurboFiller
Clearance:	54"
Track width:	120" to 157.5"
Boom:	TERRA FORCE 88', 90', 100', 120' & 132'
Pump:	HARDI 650 Run Dry centrifugal pump



Access

A heavy duty ladder, wide platform and safety hand rails provide easy access to the cab. The ladder hydraulically folds up when spraying. The lighting package combines a total of 12 work and driving lights.

The Cab

Large, spacious and uncluttered, with top level comfort for long spraying days and nights. It is quiet and provides excellent operator visibility.

Climate control air conditioning with 10 air outlets provides set-and-forget comfort levels.

Tinted safety glass, front sun visor and two rear pull down blinds minimizes glare into the cab.

The view to the boom and the field is superb. Turning on headlands and keeping an eye on the boom has never been easier.

The forward sloping hood enhances the field of view for road transport and a rear facing camera is standard.

The instructor's seat is large and comfortable, and can fold up and out of the way.

A fold down foot peg on the side of the cab provides a step to easily access the cab roof.



Field of view

The use of a large full length and curved glass panel with narrow pillars provide unobstructed view from the cab and gives the best visibility for total control during spraying.



Climate control & sound system

Set-and-forget climate-control air conditioning with dust and charcoal filters provides operator comfort.

Ten air-conditioning air vents ensures uniform air and temperature distribution.

A AM/FM radio CD player with AUX input delivers quality sound.

Operator environment

A fully adjustable air-ride seat provides exceptional operator comfort for those rough field conditions.

The joystick hydrostatic control and SprayCenter are attached to and move in unison with the driver's seat. The HC 9500 and engine management displays are ideally located and within easy reach while driving.

The SprayCenter switching is logically placed and grouped for easy fingertip operation. It is illuminated for night use.

The Steering column pivots in two places and extends to provide adjustment for the most comfortable driving position. Turning indicators, driving lights, high/low beam and hazard light selection are here.

In-cab storage is included in the arm rest console. A drawer under the seat and pocket behind the seat are provided for the operators manual.

Auxiliary 12-volt power outlet is standard.



Drivers seat

Comfortable, high quality driver's seat can be fully adjusted and has its own suspension to provide many hours of fatigue free spraying.

The seat can be adjusted for weight, height, lumbar, back, leg and motion.



Ceiling control console

Additional control switch functions are grouped in a console just above the operator's head.

Windshield wipers, work lights and rotary beacon are controlled here.

For night work a lighting package is controlled from this console.

Set to spray

Everything you need is at your finger tips, all managed through the HC 9500 display and SprayCenter control console. Spraying has never been easier.

The joystick combines the hydrostatic drive and vital spraying control functions. Forward, reverse and braking is operated by pushing forward or pulling back on the joystick. Spray on/off, section control, boom height and wing tilt functions are also managed from the joystick.

All the secondary control functions are managed from the SprayCenter.

Fluid system selection switches for pump on/off, nozzle pressure, auto rate control, end nozzle, agitation, main tank and rinse tank are logically placed and easily operated.

The arm rest SprayCenter console can also be adjusted forward and back to suit individual arm length and joystick operation position and comfort.



SprayCenter secondary functions

Hydrostatic bias selector, forward speed and engine revs can be manually selected. Cruise control automatically manages the power and bias to maintain the operating speed selected.

On-the-go hydraulic track width adjustment, dynamic boom control, pendulum lock and fold function switches are here.



HC 9500 controller

Delivers the highest level of performance and application precision.

The HC 9500 all-in-one split screen terminal provides guidance mapping, auto steer, auto section, application rate, tank content, boom height, spray records, field notes, variable rate application and more.

The SARITOR is auto steer ready.

Mixing filling & transfer

A WorkZone cover supported by a gas strut protects the fluid system and provides operator protection when the boom is folded and standing under the nozzles.

A fast fill coupling and ball valve is lowered to enable easy hose connection.

The HARDI TurboFiller is developed to handle large quantities of powders and liquids. It's high capacity is a result of high vacuum combined with rotation of the liquid forced by the TurboDeflector placed in the bottom of the hopper.

The main and flush tank drain valves double as fill valves and can be used when batch loading and water-filling is done simultaneously.

The cyclone pressure filter can be set to self-clean or can be manually purged.

A locker is used to store chemical handling safety equipment and an 8 gal. clean water tank provides ample water for personal hygiene.



Centralized WorkZone

The WorkZone console provides switching for electric motor drive valves that control main or rinse tank filling, pump on/off, tank rinse nozzles, boom nozzle, engine rpm and agitation. A LED identifies which valve is in operation.

A 60S hand gun run by a FloJet pump connected to the rinse tank is used to clean up around the WorkZone.



TurboFiller

Lowering the TurboFiller into the operating position is made easy with a spring-loaded drop down bracket that automatically locks for transport.

The TurboDeflector in the bottom of the TurboFiller, creates a powerful liquid rotation and a rinse nozzle is accessible to clean out containers.

DynamicFluid4

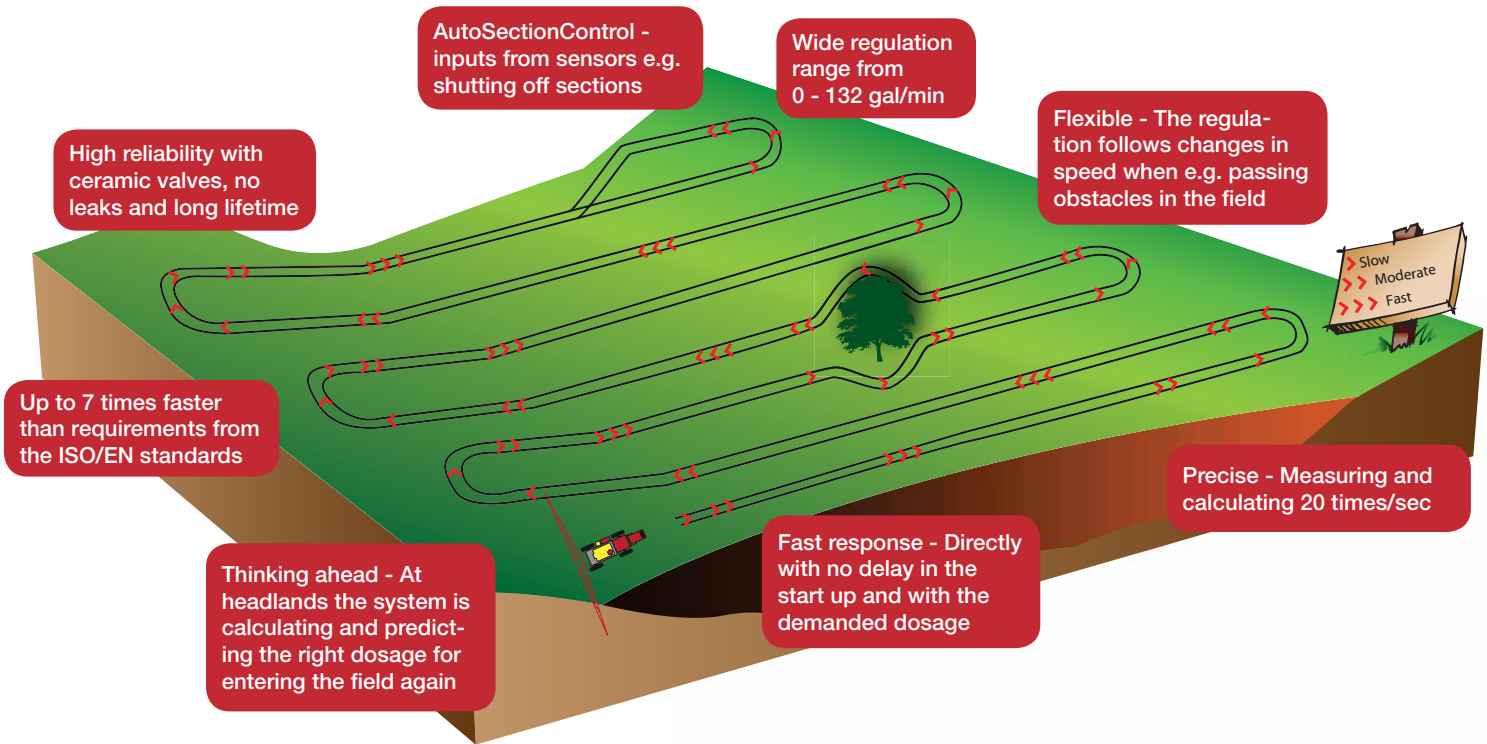
The SARITOR DynamicFluid4 fluid system is driven by a high performance Ace 650 Wet seal run-dry centrifugal pump, which can achieve 15 to 30 gpm. rate change in 1.5 seconds.

The SARITOR fluid system delivers the target rate without lag whether sections are switched on or off, changing speed or turning in or out of headlands.

Advanced fluid dynamics and rate control processes are employed to deliver fast response and accurate target rate application.

Pressure, flow, pump speed, forward speed, boom sections and application rate is monitored and processed using advanced computations. The DynamicFluid4 processor analyses the spraying data 20 times a seconds and provides preemptive rate control capability, altering the pump speed with pin-point precision.

The proportional hydraulics used to control the pump speed are highly accurate, smooth but incredibly fast.



Compatibility

Precision in spraying is a prerequisite.

DynamicFluid4 challenges conventional methods of rate control and the powerful all in one full featured HC 9500 is a precision farming tool.

Seamless compatibility with all the spraying and guidance information on one screen and precise immediate response rate regulation makes spraying easy.



Main tank & rinse tank

The main and rinse tanks are fully integrated keeping the center of weight as low and as far forward of the rear axle as possible.

The 158.5 gal. rinse tank is positioned just behind the cab and under the front of the main tank.

The rinse nozzles easily reach all surfaces of the tank for rinsing between fills.

TERRA FORCE boom

Built strong utilizing heavy duty three dimensional truss construction for high performance and is available in sizes 88', 90', 100', 120' and 132'. The TERRA FORCE truss boom design is able to withstand incredible yaw forces created during cornering, accelerating, braking and auto steering. These forces are absorbed through a hydraulic dampened parallelogram suspension system.

With on-the-go stability control the dynamic boom center can be set from the cab to suit the operating condition.

When the boom is open the wing locks provide a positive locking mechanism ensuring the wings perform as one.

The TERRA FORCE boom is designed to reduce turbulence over and around the nozzle. A continuous mounting rail provides variable nozzle position mounting and easily accommodates 20" nozzle spacing.



Larger boom line fluid system

The boom fluid system with T25 -1 inch boom lines provides a 30% increase in capacity over other booms, minimizing pressure loss between sections.



Wide paralift

The boom is supported by a wide Paralift which enhances stability and is hydraulically dampened for smooth ride and performance.

Individual wing tilt is standard and incorporates shock absorber elements to provide individual wing suspension.

AutoTerrain

TERRA FORCE with AutoTerrain sets new standards in wide boom performance. AutoTerrain maintains a lower boom height and provides better drift control.

AutoTerrain maintains the set boom height following the ground like a magnet regardless of the terrain it travels across and is a preemptive stability and auto height control system that deals with the cause of boom movement.

AutoTerrain seamlessly monitors roll through the center and the height of the boom off the ground 10 times every second. When change is detected AutoTerrain simultaneously corrects the boom's position relative to the ground contour by angling it through the center pendulum.



AutoTerrain helps to spray more safely, protecting the boom from ground strikes, and preventing incorrect spray height while increasing productivity through wide boom performance.

AutoTerrain benefits

- Better boom stability
- Constant and uniform boom height
- Lower boom height
- Better drift control
- Minimize risk of boom damage
- Reduced down time due to breakage
- Less dependence on operator control
- Cuts operator fatigue
- Greater productivity
- Less wear and tear



Roll and height sensors

AutoTerrain monitors roll and height. Sensors read 10 times every second, simultaneously correcting boom position relative to the ground contour by angling it through the center pendulum.

No need for boom wheels, no need to be constantly on the wing tilts - ground strikes will be history!

Hydrostatic Drive & Cruise

A fully integrated Danfoss hydrostatic 4WD transmission, powered by a Cummins QSB 6.7L 275hp engine is capable of 33 mph.

The Cummins engine is designed to deliver reliability where high performance is essential.

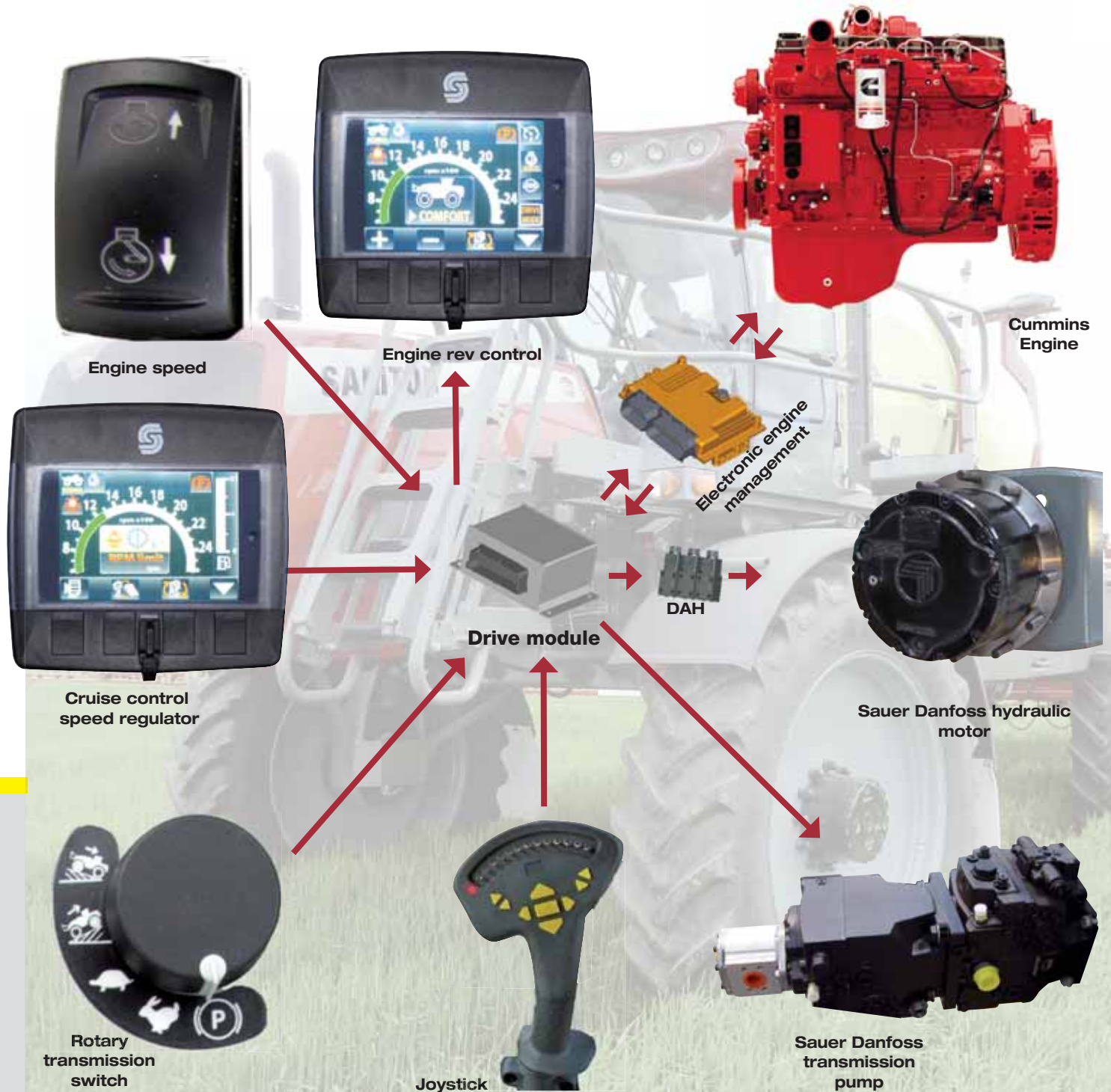
The 4WD hydrostatic No-Spin Sauer-Danfoss technology optimizes performance providing speed, torque and progressive acceleration.

Combined they deliver maximum fuel efficiency.

Forward speed, reverse and braking are controlled by pushing forward or pulling back on the Joystick. Internal wet discs provide ultimate braking.

Speed and power bias can be selected manually with the rotary switch and engine revs.

When cruise control is selected, power and bias to maintain the operating speed is automatically managed.



Ride, clearance and track width

SARITOR delivers exceptional ride comfort and boom performance with the help of four large air bag suspension elements assisted by hydraulic shock absorbers.

The front and rear suspension each consist of four heavy duty link arms and one panard rod to provide a trailing suspension system which offers natural movement over rough conditions.

The under chassis crop clearance is 54" and the track width is hydraulically adjusted from 120" to 157.5". The wide track setting provides an exceptionally stable platform enhancing boom ride and performance.

Mudguards and mud flaps are standard and follow the wheel when steering or adjusting the track width.

Each wheel axle can be hydraulically adjusted independent of the others providing for the opportunity to run the front and rear at different tracks widths if required.



Suspension - front & rear

The trailing link arm suspension system with ride level air-bags and hydraulic shock absorbers delivers long term reliability, smooth boom ride, performance and operator comfort.



Chassis

The C-section bolted chassis is designed to flex and provide maximum movement when driving over contours.



Standard Features:

- 1100 or 1300 gal. capacity
- 135 gal. rinse tank & rinse nozzles
- 88', 90', 100', 120' or 132' TERRA FORCE Booms
- 8 to 12 section boom distribution
- 275hp Cummins engine
- 4WD hydrostatic transmission
- Cruise control
- 2 wheel steer & auto steer ready
- 120" to 157.5" hydraulic track width
- Air bag suspension
- 54" under axle clearance
- Mudguards & mud flaps
- 19 cu/ft. storage locker
- HC 9500 all-in-one touch screen controller with AutoSectionControl
- AgLeader 2500 receiver
- Electronic TankGauge sensor
- Reversing camera
- SprayCenter control
- Wide ladder and platform
- Climate control
- AM/FM/CD with AUX sound system
- HARDI 650 WetSeal run-dry centrifugal pump
- AutoTerrain boom height control

Options available:

- TurboFiller induction
- Boom line filters
- Solenoid end nozzles
- AgCam Remote Camera
- Working lights
- ParaDyme steering
- Pentalet nozzle bodies
- Richway Direct Injection foam marker

Technical specifications:

Tank	1100 gal. & 1300 gal.
Pumps, type,	HARDI 650 Run dry centrifugal pump
Boom	88, 90', 100', 120' or 132'
	TERRA FORCE
Control type	HC 9500
Engine	Cummins QSB 6.7L 275hp
Fuel capacity	145 gal.
Transmission	4-WD Danfoss Hydrostatic H1
Suspension	Air-Bag with shock absorber
Steering	2 wheels steer
Track adjustment	120" to 157.5" hydraulic
Turning circle (curb to curb)	67'
Weight (empty)*	30,250 lbs* (5000 & 120ft)
Total length	A 374"
Total transport height	B 156.5"
Width with TerraForce	C 169.5" (transport 138")
Track width (380/105R50)	D 120" to 157.5"
Wheel base	E 168"
Clearance	F 54" (380/90 R50)
Rinse tank	158.5 gal.
Hand wash tank	8 gal.
Storage locker	19 cu/ft.
Filling capacity TurboFiller	33 gpm.

Tire options:

	4000/5000
Standard	380/90 R50"
Options available	480/90 R50"
	520/85 R46"

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The Sprayer

HARDI reserves the right to change the specifications without notice. Illustrations shown may include optional extras and accessories.