

Power Efficiency

Comfort & design



PRESIDIO

PRESIDIO

PRESIDIO delivers class leading field performance and flotation.

The 700 gallon main tank and 70 gallon flush tank integrated into the chassis provide a low center of gravity and excellent weight distribution.

EAGLE boom widths of 75' to 90' produce high work rates and make spraying fast and efficient.

The standard 4WD, 3-speed hydrostatic transmission with cruise control is powered by a Deutz 6 cylinder 173 horsepower engine.

Built for demanding service PRESIDIO optimizes design strength and weight distribution.

Air-bag suspension provides superb comfort & ride and offers excellent crop clearance.

HARDI fluid system from tank to nozzle delivers precision application to the target every time.

It is ideally suited to row-crop and broad acre farming applications.



Specifications

Main tank:	700 gallons
Boom:	Eagle 75 to 90 feet
Engine:	Deutz 6 cylinder 173 hp
Chassis:	Heavy duty
Axles:	Track width adjustable 94 inch to 120 inch
Control:	HC 8500 or HC 9500
Fluid system:	DynamicFluid4
Pump:	HARDI 650 WetSeal run-dry centrifugal pump



PRESIDIO cab

For long spraying days and nights, the PRESIDIO's 4 pillar cab is operator friendly, comfortable and quiet.

Tinted safety glass with pull down sun visor minimizes glare and slim corner posts allow excellent visibility.

The field of view to the boom and to the front wheels is excellent. Entering the row for row-crop spraying and maintaining accurate boom height has never been easier.

The forward sloping hood enhances the field of view to the road in transport and adjustable electric rear view mirrors are standard.

Climate control air conditioning is set-and-forget, delivering operator comfort in hot or cold conditions.

The work platform provides easy entry to the cabin through the rear left-side cab door and offers excellent access to the tank.



Cab

With an unobstructed view, the PRESIDIO cab gives operators excellent visibility in all directions.

It has a generous proportion relative to the overall size of the machine, with good comfort and low noise level.

The rear cab door provides easy entry and excellent access to the platform and tank.



Climate Control & sound system

A fully integrated climate-control air conditioning system provides set-and-forget cab comfort.

A combination dust and charcoal filter protects the operator.

Blue Tooth compatible, AM/FM radio with 4 speakers is standard.

Operator efficiency

The well-appointed cab offers efficient space to operate this premium level self-propelled sprayer.

Whether driving or spraying, the location and layout of controls are user friendly.

Six air outlets in the roof lining direct climatically controlled air to all points in the cab to maintain cab comfort.

A blue tooth compatible AM/FM radio with speakers positioned in the four quarters of the ceiling lining delivers quality sound.

The overhead console houses the light and wiper switch controls.

The right side window panel opens wide to provide external access to the right side of the sprayer.

The steering console pivots in two places to provide the most comfortable driving position. The Engine management monitor and engine warning lights are integrated into the console.



Driver's seat

The PRESIDIO driver's seat is made from high quality materials for the best comfort that allow many hours of fatigue-free spraying.

The seat has airbag suspension and offers height, swivel, back and leg adjustment.

A storage compartment is built into the seat mounting base.



Auxiliary control console

Secondary control switches for lighting and windshield wiper functions are grouped on the console just above the operator's head, along with the electrically operated external rear vision mirrors.

Air conditioner outlets are located throughout the cab.

Application & Operational Control

Spraying is easy with all the operational and application controls at your fingertips.

The forward/reverse hydrostatic control is well-placed on the driver's seat console.

On-the-go 3 speed range selector, engine-rev dial and cruise control work together to provide a smooth accurate forward speed.

A foot brake alongside a foot accelerator allows the PRESIDIO to accelerate and stop like a conventional vehicle.

The in-cab HC 8500 or HC 9500 application controller platform provide a high level of performance and application precision with function & rate control at you finger tips.

The HC 8500 or HC 9500, all-in-one terminal controls rate, AutoHeight, AutoSectionControl, guidance and much more.



Boom fold control

Operational and application control at your fingertips.

The SprayCenter folds the boom and controls the pump, application state (auto/manual), agitation and the fence line nozzle if fitted



HC 9500 & HC 8500 controller option

12.1" or 8.4" touchscreen spray controllers delivers the highest level of performance and application precision.

The complete integration of all information on one intuitive touchscreen screen provides the operator with the options of Guidance, Rate Control, AutoSteer, AutoHeight and AutoSectionControl, spray records, field notes and variable rate application

Mixing, filling & transfer

Loading is fast, efficient and easy. The controls are within easy reach and are logically placed in the work zone.

A color-coded SmartValve operates the primary filling, spraying and cleaning functions.

Fast, high-capacity filling is through two 2 inch cam lock couplings, one to the main tank and the other to the rinse tank. Main tank is a filtered inlet.

Loading chemicals is safe and easy via a high capacity TurboFiller that is lowered to provide access.

The TurboDeflector in the bottom of the TurboFiller creates a powerful liquid vortex which thoroughly mixes the chemical into a solution before it is transferred.

The HARDI fluid system is fully integrated with slide pin, O-ring sealed manifold valves and is driven by the HARDI 650 WetSeal run-dry centrifugal pump.



Fluid system

The PRESIDIO manifold fluid system is powered by an HARDI 650 WetSeal run-dry centrifugal pump and is controlled through color-coded SmartValves for safe, easy operation.



TurboFiller

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

The turbo deflector in the bottom of the TurboFiller creates a powerful liquid vortex for thorough mixing. A rinse nozzle is located there to clean out containers.

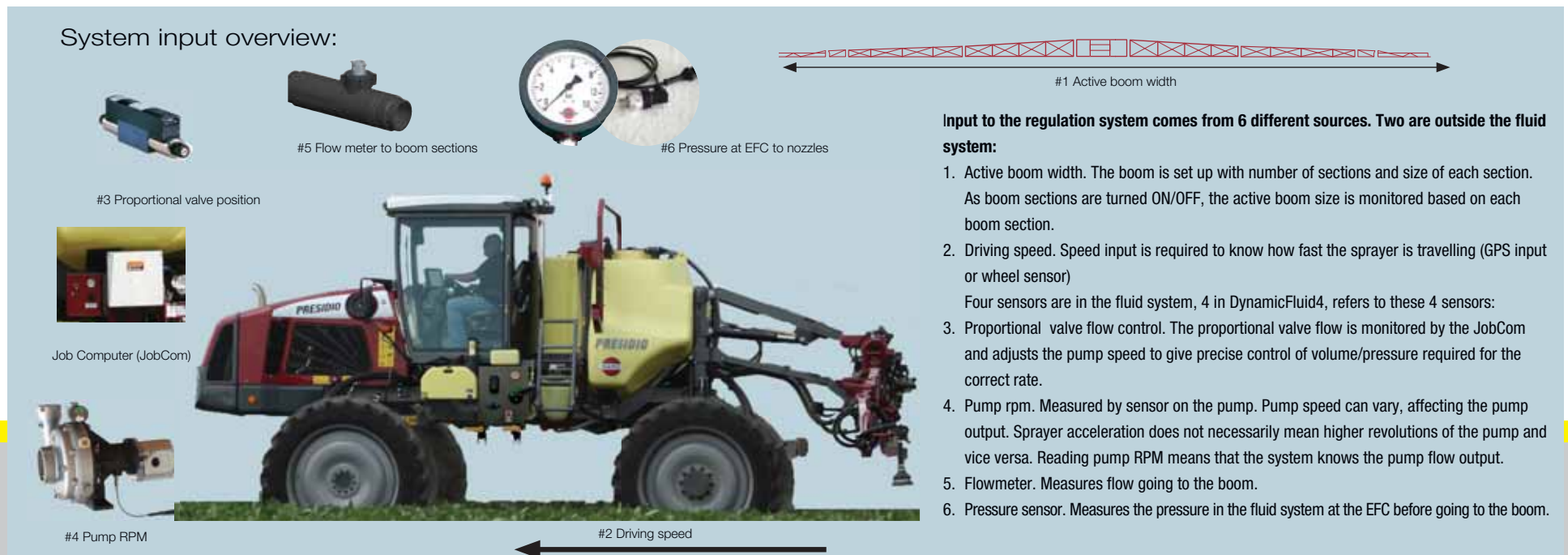
DynamicFluid4 system is based on 4 sensor technology.

Fast and precise regulation with precision and capacity in mind, HARDI challenged the traditional way of regulating volume rate. Traditionally a sprayer applies and then measures actual volume rate. When the rate applied and volume rate do not match the preset volume, the computer system will regulate until they match.

This conventional spray systems means that driving speed, boom width and pump revolutions must stay relatively stable to obtain a precise regulation.

With today's modern transmissions, powerful engines, advanced boom suspensions and GPS controlled spray booms, the conventional way of spraying has changed. These improvements in sprayer technology have now made the liquid regulation the weak part of the application system. Now that the control of the boom and sprayer is optimized by technology, the operator demands more from the application system.

DynamicFluid4 is the solution for these challenges.



Function

When starting a new spray job, DynamicFluid4 will respond like a conventional fluid system. Within seconds of starting a new task, data from all sensors is simultaneously collected and compared. This data allows the computer to build a matrix for all parameters and develop a pattern for the remainder of the spray job. The developed matrix can now predict consequences of change in the volume rate if any parameters are adjusted. These operations allow the system to make preventative actions before any variation in volume rate is detected. These same measures in flow rate occur even when sections or nozzles are turned off. Collecting this data and pre-acting to this information is called feed forward, contrary to the feedback on a conventional sprayer system.

Recalculation of the matrix occurs 20 times per second. This means that if one parameter changes, the system knows what flow to adjust to.

EAGLE boom

The EAGLE boom is renowned in broad acre and row crop applications, offering unequalled performance in rough conditions.

Available in sizes from 75 to 90 feet, The EAGLE is a strong two dimension truss construction supported by fast acting paralift boom height control.

Individual wing tilt is standard for tilting the boom wing on headlands, over obstacle and to keep the boom out of harm's way.

A non-directional spring loaded break-away system protects the boom from damage.



EAGLE wing fold

The wing sections are a strong two dimensional construction. Hydraulic cylinders near the center fold the inner wings and simultaneously fold the outer wings by cable.



Effortless hydraulic paralift

A wide paralift gives fast effortless boom height control to 86" with excellent boom stability.

EAGLE performance

The exceptional boom performance is based on the inertia trapeze suspension and anti-yaw dampening system which delivers unmatched stability through cornering and headlands.

The smooth ride comes down to a combination of the dynamically linked coil spring center and air-bag suspension on the PRESIDIO.

The coil spring suspension absorbs shock transmitted to the boom from driving over normal field condition.

All the nozzles are well protected behind the boom structure and can be adjusted to suit the nozzle tip length.

The gull wing boom unfold and fold is uncomplicated, fast and efficient.



4WD & Cruise

PRESIDIO has a 173 HP 6 cylinder Deutz TCD2012 engine which delivers excellent power to weight ratio. It is turbo charged, water cooled, has common rail fuel injection and is Tier 3 compliant.

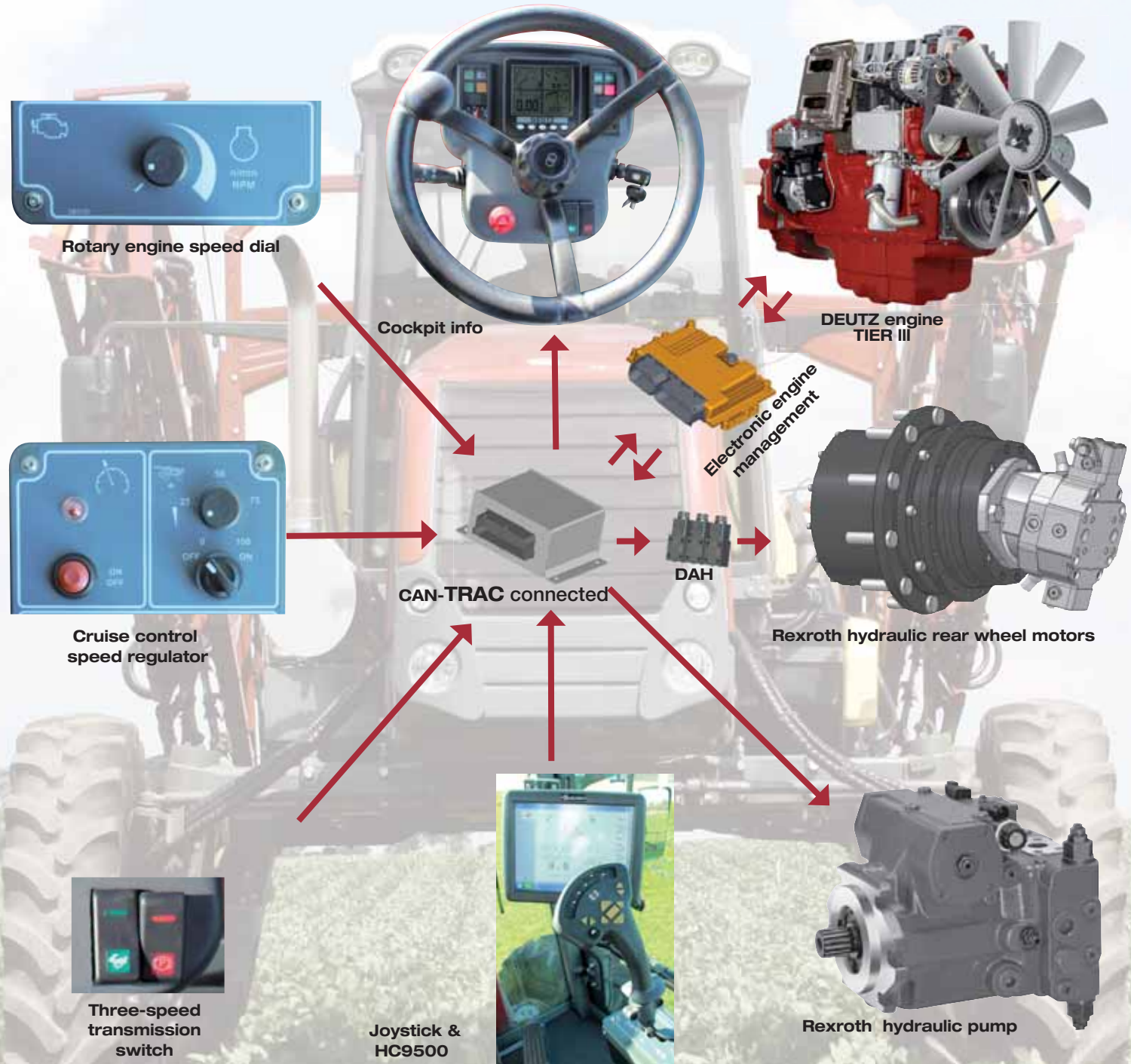
4WD, 3-speed hydrostatic transmission with cruise control is standard. The engine, transmission and cruise combine to provide power, efficiency and smooth control of forward speed.

Electronic control of the hydrostatic transmission optimizes performance and ensures driving comfort and improved fuel savings.

Speed and direction of travel is managed by the joystick handle or cruise control regulator which allows the operator to concentrate on the application.

Cockpit info is centrally located, includes a wide variety of operators chosen data with audible warning alert.

Diesel fuel tank capacity is 82 gallons, easily providing a day's fuel consumption.



The ride

PRESIDIO gives outstanding operator comfort and ride.

To protect the sprayer and provide a smooth ride for best boom performance, the PRESIDIO is equipped with compact front and rear air bag suspension and hydraulic shock absorber dampening.

The rear axle oscillates to maintain traction on all 4 driving wheels.

PRESIDIO ground clearance is 53" with standard 380/80R38" tires and 58" with optional 380/90R46" tires

Mechanical track width adjustment is 94" through 120"

Mudguards give added benefit to keep the machine clean. The mudguards turn with the steering wheels.



Wheels and tires

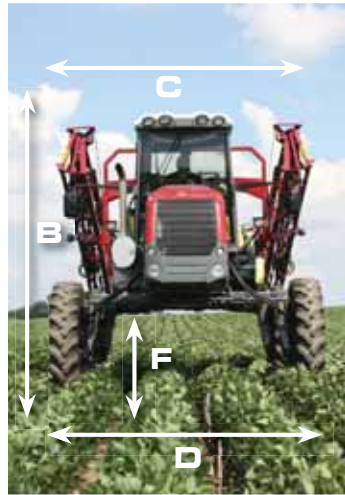
The load carrying performance of the PRESIDIO tires have been selected to provide the best ride and flotation characteristics while minimizing crop damage.

Adjustable axle options from 94" to 120"



Suspension

The compact air bag axle suspension elements carry the load while hydraulic shock absorbers dampen the ride. The suspension is ideally suited to different load ratings, providing the PRESIDIO with a low center of gravity and enhanced boom stability.



Technical Specifications:

Tank, gallons	700
Pump, type	HARDI 650 WetSeal run-dry centrifugal
Booms EAGLE	75, 80, 90 & 90/60 ft.
Section distribution standard	6,8 & 9 section
Air-Bag suspension, standard	Airbag hydraulic shock absorbers
Weight (tank empty), lb.	16,225
Total length, ft.	A 29
Total height, ft.	B 12
Width with boom folded, ft.	C 11
Track width, adjust options, in	D 94 to 120
Wheel base, in	E 150
Under axle clearance, in	F 53
Rinse tank, gal.	70
Wheels/Tires	380/80 R38
Brakes	Dynamic
Engine	Deutz 6 cylinder (173 hp)
Transmission	3 speed hydrostatic, cruise control
Steering	2 wheel
Turning circle, ft. (curb to curb)	44 (with 94" track width)

Standard features

700 gal main tank capacity
 70 gal rinse tank
 4 gal clean water tank
 75, 80, 90 or 90/60 ft. EAGLE boom
 Triplet nozzle bodies
 173.5hp (129.4kW) Deutz engine
 4WD Hydrostatic transmission
 Cruise control
 2 wheel steer
 94 to 120 in. track width
 Air bag suspension
 53" in under axle clearance
 HC 8500 all-in-one touch screen controller with ASC
 SprayCenter control
 HARDI 650 WetSeal run dry centrifugal pump
 DynamicFluid4 fluid system
 6.5 gal TurboFiller
 2 inch Fast Fill - filtered on main tank
 Boom section & pressure regulation
 EAGLE boom with wing tilt
 Climate control
 Blue tooth sound system
 Electric mirrors
 Boom line filters

Options available

Solenoid end nozzles
 HC 9500 all-in-one touch screen controller with ASC
 Mudguards & mud flaps
 Pentalet nozzle bodies
 Richway® Direct Inject foam marker (Flush tank required as water source)
 AgCam Remote mount camera (Includes 50' Cable)

Tire options:

	2700	Track
Standard	380/80 R38	94" to 120"
Optional	390/90 R46	
	380/90 R46	



HARDI North America Inc.

1500 W. 76th St. - Davenport, IA 52806
 PH: (563) 386-1730 Fax: (563) 386-1280

337 Sovereign Rd. London, ON N6M 1A6
 PH: (519) 659-2771 Fax: (519) 659-2821

E-mail: info@hardi-us.com
 Web: hardi-us.com



The Sprayer