

Industry Leader

The Obvious choice



NAVIGATOR

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Tank Size: 800 gal, 1000 gal, 1200 gal, or 1600 gal
Axle: 60" to 120" (fixed or adjustable)
Controller: HC 5500, HC 8500 or HC 9500
TurboFiller: High capacity, easy to operate (Optional)

Liquid system: Simple to operate SmartValve
EAGLE Boom 2-dimensional design booms from 45 to 120 ft
FORCE Boom (6000 Only) 3-dimansional design boom 132 ft

The Industry Leader

NAVIGATOR is synonymous with high quality and design which supports functionality. These properties secure the value and ease of use found in the NAVIGATOR. The middle range capacities of 800, 1000 and 1200 gallons does not prevent this series of trailer sprayer from providing the same benefits and capabilities of today's most sophisticated farm implements. A large range of high quality features greatly benefits the farmer, making the NAVIGATOR the obvious choice.

Concept

This concept of the NAVIGATOR was launched in 2007 and represents 50 years of HARDI's experience as The Sprayer. The proven success of NAVIGATOR sprayers since the introduction shows the value of a direct focus on nothing but sprayers.



HARDI - The Sprayer

Today, as in the past, the general foundation of the HARDI idea is that we dedicate all our strengths and efforts to concentrate exclusively on a higher level of plant care that will produce long term quality solutions for the dealer or consumer. This concentration of resources has made HARDI the complete plant care specialist.

Controllers

With its color display and joystick operation, the HARDI HC 8500 is only one of three spray controllers available on the NAVIGATOR. Designed specifically for sprayers, the HC 8500 will make the NAVIGATOR an even more obvious choice. The ergonomic optimal design supports the demands given by long working hours with one hand operation. To make it as easy and simple as possible, the connection between sprayer and tractor is made with only one cable.

TurboFiller (Optional)

TurboFiller is a high capacity induction hopper which makes the filling of chemicals fast and easy. The unique TurboDeflector creates a powerful liquid circulation in the hopper and mixes all types of chemicals quickly and safely.

Chassis

The heavy-duty NAVIGATOR chassis and axles are designed for high-speed driving under the most demanding field and road conditions. The robust NAVIGATOR frame is made of high-tensile steel and is ready to meet the tough demands of the professional farmer.

The concept gives the best compromise between excellent clearance and low center of gravity.

Low center of gravity

The entire NAVIGATOR design has the lowest possible center of gravity without compromising clearance under the sprayer.



Unique design with long drawbar

The long drawbar is one straight line from the coupling point to the axle. Being bolted underneath the frame, it ensures good driving stability and absorbs the up-and-down forces at high-speed driving.



Perfect clearance

The unique design of axle and frame ensures excellent crop clearance, reducing crop damages to the absolute minimum. Nothing is lower than the axle and drawbar.



SmoothRide

The optional SmoothRide suspension system is uncomplicated and reliable. The long-lasting polypropylene dampers require little to no service. The suspension provides a better ride of the sprayer, ensuring higher capacity and comfort.

EAGLE Boom

The 45 - 120 ft EAGLE boom is designed for heavy duty use under the most demanding conditions. The boom is well-known around the world for its performance under the hardest conditions.

The EAGLE boom is suspended on two large coil springs with shock absorbers. The horizontal movements are controlled by a heavy-duty trapeze system that allows spraying and turning at very high working speeds.



EAGLE DualFold SPC

HARDI has expanded the line of EAGLE booms with the addition of the 90'-60' and 120'-90' DualFold boom sizes. Heavy dual spring suspension with dual shock absorbers on the 120' are designed to smooth the boom performance in the roughest no-till fields.



Maintenance is kept simple with the EAGLE seven point suspension and easy adjustments for in field performance.



The EAGLE boom is available with two different hydraulic set-ups. HY-version gives an easy folding where left and right side of the boom are folded symmetrically. DHP-version is electro-hydraulic and gives the possibility of individual tilt and single-side folding.



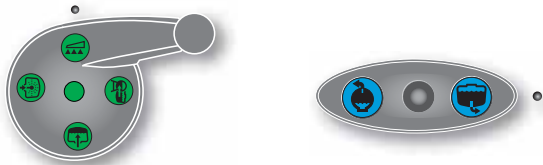
Designed with boom height in mind, the dual fold 120' SPC boom is ready for Norac UC4+ and UC5 automatic boom height control systems.

Liquid system

The liquid system of the NAVIGATOR has large dimensions in all valves, tubes and filters. The liquid system is dimensioned to handle large volumes of liquid with minimum pressure loss.

SmartValve

All primary functions needed for filling or cleaning the sprayer are built into two handles located in the center of the working zone. The logically placed handles with easy to read icons make the system very easy to operate. The ergonomic design and 4 position SmartValve saves time when changing between settings.



Pump

The NAVIGATOR liquid system is driven by the grease-lubricated HARDI diaphragm pump or the Ace centrifugal pump. With the diaphragm pump the diaphragms separate the liquid from the vital parts of the pump such as its bearings and crankshaft, ensuring reliable and durable operation.

HARDI diaphragm pump features:

- Self-priming
- Able to run dry without damage
- Easy to service
- Grease-lubricated crankcase





TurboFiller

The HARDI TurboFiller is developed to handle large quantities of powders and liquids. Its 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.

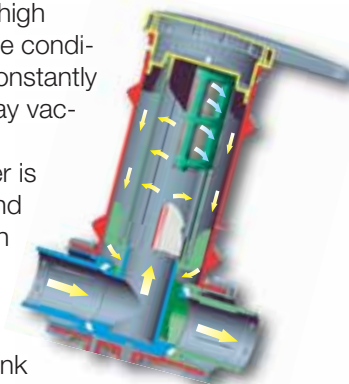
Changing from transport to easy operation height (37.5") is made simple by the means of a spring-loaded bracket with automatic locking in transport or working height. A multifunctional 3-valve operating unit and a cleaning wand make the chemical filling easy and efficient. The cleaning of containers and the TurboFiller itself is managed by a rotating nozzle.



EasyClean filter

The EasyClean filter is a high capacity suction filter. The condition of the filter can be constantly monitored via a SafeSpray vacuum gauge.

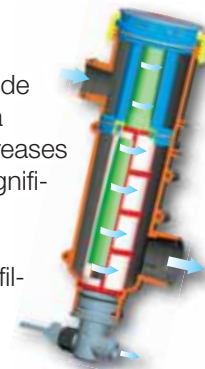
This ensures that the filter is cleaned when needed and only when needed. When cleaning the filter, all you have to do is to twist the lid 90°. This will close a main tank valve in the bottom of the filter and open the filter for inspection.



CycloneFilter

The CycloneFilter at the pressure side is a unique self-cleaning filter with a high-speed cyclone action that increases the cleaning capacity of the filter significantly.

In addition, the CycloneFilter has a unique boost function allowing the filter to be flushed when needed.



Flush and Rinse Kit

The HARDI NAVIGATOR can be equipped with a flush and rinse system. This system allows the operator to flush the liquid system before filling up for the next load. The operator can choose to flush the boom or rinse the main tank. The need of rinse water is reduced due to the optimized liquid system. All return lines and agitation will be flushed when spraying out the diluted liquid from the main tank.



Control systems



HC 5500

Advanced farming ready, the HC 5500 is ready to connect to specific application maps for variable rate application. Optional add-ons include auto section control, electronic pressure gauge and electronic tank gauge, to name a few. The logic menu makes it easy to get vital information quickly. When pressing one of the preset keys that information appears in the large easy to read area of the screen. They also double up as shortcuts to the important calibration menus. Volume can be changed on the go as a percentage or as a volume rate (3 different rates).



HC 8500

The complete integration of all important information on one work screen is important. Farmers want to see all sprayer information at a glance and also guidance and boom management information without having to change the work screen.

The HC 8500 has an 8.4" color touch screen display and the operation is identical with the known bigger HARDI HC 9500 terminal. Some farmers have the demand for a smaller display, especially when they will use a second terminal in the cabin.

The HC8500 controller provides growers a powerful, full-featured precision farming tool for guidance, data logging, automated steering and more.



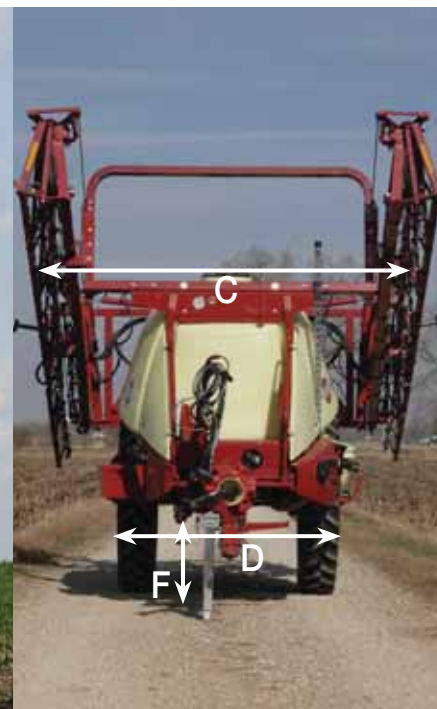
HC 9500

All the main spraying functions are operated with the multifunction joystick in conjunction with the HC 9500, 12.1" touchscreen spray controller, to provide the highest level of performance and application precision. The HC 9500 controller provides growers a powerful, full-featured precision farming tool for guidance, data logging, application report generation, automated steering and more. The HC 9500 offers compatibility with the ISO 11783 (ISOBUS) Virtual Terminal Standard.



ISOBUS 11783

The primary goal of ISOBUS data technology is to standardise the communication which takes place between tractors and implements while ensuring full compatibility of data transfer between the mobile systems and the office software used on the farm. ISOBUS makes inefficiency a thing of the past by creating a standardized and compatible interface between the tractor and associated implements with the future aim of achieving plug and play capability for every combination. Just plug it in, and you are ready to go. One single ISOBUS terminal replaces a multitude of terminals specifically for single implements on the tractor.



Additional Options Available



Foam Marker



ChemLocker



External Cleaning Kit



Safety Chain Kit



Norac Auto Height



Night Spraying Light

Technical specifications – NAVIGATOR

Model/Tank size,	3000 (800 gal.)	3500 (1,000 gal.)	4000 (1,200 gal.)	6000 (1,600 gal.)
Pumps, type –rpm	HARDI 463 - 540 or 1000	HARDI 463 - 540 or 1000	HARDI 463 - 540 or 1000	HARDI 463 - 540 or 1000
	HARDI 363 - 540 or 1000	HARDI 363 - 540 or 1000	HARDI 363 - 540 or 1000	HARDI 363 - 540 or 1000
	Ace 650 - Hyd Drive	Ace 650 - Hyd Drive	Ace 650 - Hyd Drive	Ace 650 - Hyd Drive
	Ace 200 - Hyd Drive	Ace 200 - Hyd Drive	Ace 200 - Hyd Drive	Ace 200 - Hyd Drive
	Ace 150 - Hyd Drive	Ace 150 - Hyd Drive	Ace 150 - Hyd Drive	Ace 150 - Hyd Drive
Booms	EAGLE	EAGLE	EAGLE	EAGLE / FORCE
Smooth Ride Suspension	Optional	Optional	Optional	Optional
Hydraulic outlets needed (HY models)	2	2	2	2
Hydraulic outlets needed (DHP models)	1 double acting	1 double acting	1 double acting	1 double acting
Weight drawbar (empty tank)*, lbs	634	643	656	1,047
Weight axle (empty tank)*, lbs	6,956	6,972	6,989	9,370
Weight total (empty tank)*, lbs	7,590	7,608	7,645	10,417
Total length, in* A	234	234	234 (263.5 on 4000 w/120' boom)	250.8
Total height, in* (wheel size) B	150 (320/90 - R46)	150 (320/90 - R46)	150 (320/90 - R46)	156
Width with EAGLE boom, in* C	120	120	120	120 (139.2 with FORCE)
Track width, in D	60 to 120 (Select Axle Configurations)	60 to 120 (Select Axle Configurations)	60 to 120 (Select Axle Configurations)	60 to 120 (Select Axle Configurations)
Length draw to axle, in E	180	180	180 (202.6 on 4000 w/120' boom)	204
Clearance, in (302/90-R46) F	27	27	27	27
RinseTank gal	130	130	130	130
* 90 ft EAGLE Boom				



The NAVIGATOR is available with a range of boom sizes from 45 to 120 ft. All booms have self-stabilizing suspension and are fully adjustable to suit both rough and steep terrain.

EAGLE 45-120 ft

The EAGLE boom is the choice for dependability and value and is also available with two DualFold boom sizes of 90-60 ft or 120-90 ft. The EAGLE is the perfect choice for the medium to large farms. (The EAGLE 120-90 ft boom is only available on the NAVIGATOR 4000 and models)

FORCE 132 ft

The FORCE is the perfect choice for large scale farmers and contractors looking for unmatched performance and dependability. The rugged 3-dimensional structure guarantees unrivaled durability. (Only available on the NAVIGATOR 6000)

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



Superb surface treatment

The high-technology surface treatment contains a multiple step process, including an Oxsilan pre-treatment prior to powder coat painting of all major components.

Together with the Delta/Magni treatment of nuts, bolts and other hardware, HARDI supplies high corrosion protection of our products. Prior to the treatment of steel in HARDI North America, an automated metal finishing booth uses steel shot to remove debris and physically clean the steel before it is visually inspected and sent to the surface treatment process.

Testing procedures

Sprayers leaving HARDI North America are tested according to the strictest quality standards. This ensures that the highest quality sprayers are delivered to farmers.



HARDI - The Sprayer

HARDI INTERNATIONAL A/S is an international group whose basic idea is to satisfy the user's requirements for quality products which ensure efficient, punctual and precise application of crop protection products. Our world-wide distribution and sales network comprise more than 100 countries where we are represented by importers, agents and sales subsidiaries. These are situated in Sweden, Norway, Denmark, the UK, France, Spain, North America, Germany and Australia.

Since 1957 HARDI has committed to the ever-increasing demands for efficient and precise plant protection. HARDI is the trendsetter within application of crop protection products. To achieve this position continued developments and innovation are essential. HARDI is committed to the long term future of plant protection.



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The Sprayer



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HARDI - The Sprayer

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