

The Obvious Choice

Value for money - Ease of use



NAVIGATOR

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Steering: IntelliTrack or ManualTrack
Controller: HC 2500, HC 5500 or HC 6500
TurboFiller: High capacity easy to operate
Liquid system: Simple to operate with many features

Axle: Fixed or adjustable 1.5 – 2.25 m
PRO booms: Compact, vertically folded booms from 12 to 18 m
EAGLE booms: Simple and strong booms from 18 to 30 m
DELTA booms: 3 dimensional high performing booms from 18 to 28 m

The Obvious Choice

NAVIGATOR is synonymous with high quality and design which supports functionality. Properties which secure the value for the money and ease of use. In the HARDI trailer family NAVIGATOR is middle-sized. In all other contests NAVIGATOR is everything but middle-sized.

The large range of high quality features makes the NAVIGATOR the obvious choice.



Concept

Demands for simple and reliable solutions, serviceability and high capacity are universal world-wide. NAVIGATOR was launched in 2007. The product represents HARDI's 50 years' experience as sprayer specialist. The proven success for NAVIGATOR sprayers since the introduction has shown that value of this position.



IntelliTrack

IntelliTrack is a high-end steering drawbar concept combining the advantages of an excellently designed chassis with the use of advanced electronics.

The tracking concept is easy to connect and to operate, ensuring safe tracking even in difficult field conditions.

HC 6500

HC 6500 is designed only for spraying, which means that there is no compromise in functionality to meet the demand for other implements. The ergonomic optimal design supports the demands given by long working hours and easy operation. All buttons are placed in a logical way which harmonizes with the corresponding function.

The colour display has an excellent readability, also in sunlight. All primary functions are controlled by the intuitive to operate the GRIP.

TurboFiller

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 centre of gravity.

Low centre of gravity

The entire NAVIGATOR design has the lowest possible centre 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. The drawbar is available either fixed as a low- or a high-hitch version or as a steering drawbar.



Perfect clearance

The unique design of axle and frame ensures excellent crop clearance, reducing crop damages to the absolute minimum. No brake rods or steering components are lower than the axle.

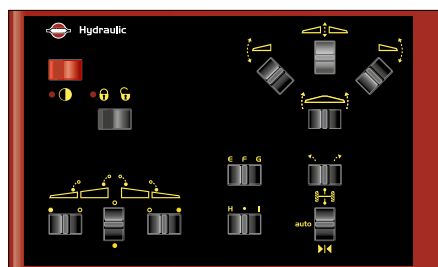




Smooth Ride

The optional Smooth Ride suspension system is uncomplicated and reliable and requires little or no service. The suspension provides a better ride of the sprayer, ensuring higher capacity and comfort.

Tracking



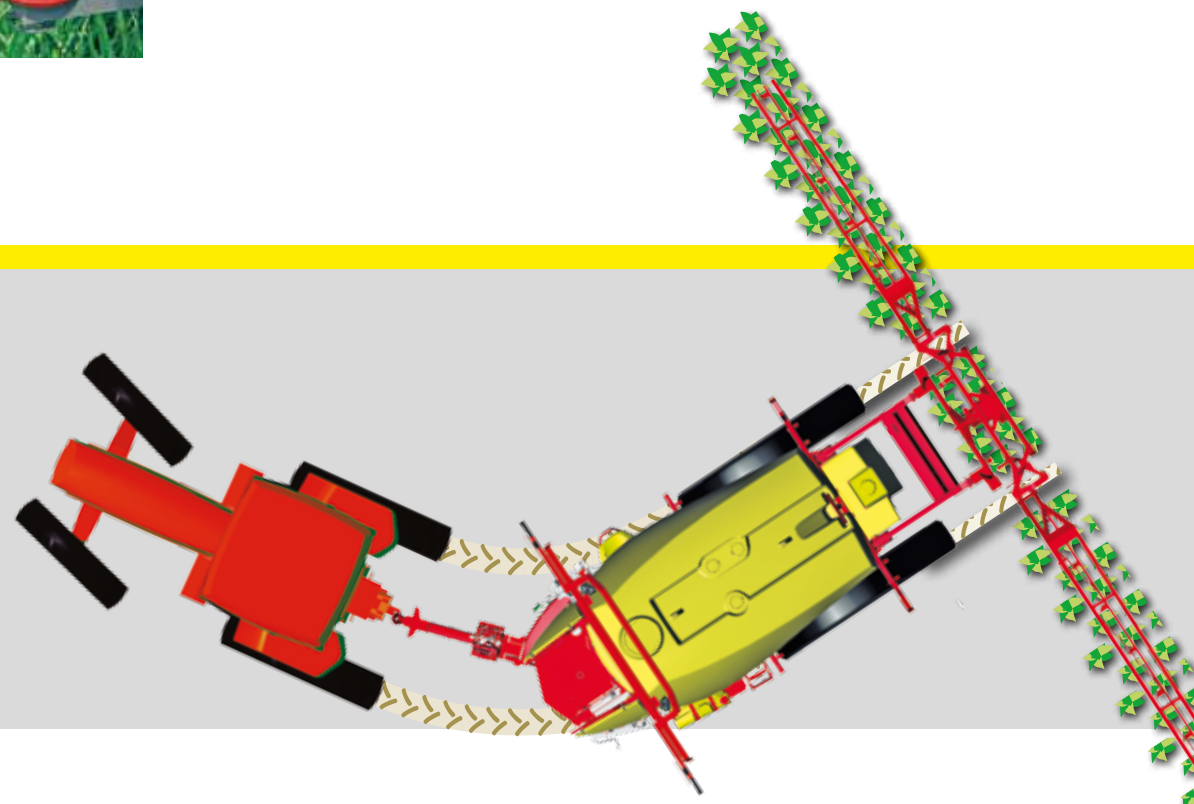
IntelliTrack

This high-end steering drawbar concept offers a tight turning radius. A combination of advanced electronics, proportional valve and 2 large hydraulic cylinders ensure a safe, accurate tracking with user-friendly operation.

The HC 5500 and HC 6500 constantly monitor the forward speed and the track width to make sure that the tracking is not used when it is not safe. If the tractor driver attempts a 90° turn at e.g. 15 km/h, the IntelliTrack system automatically computes the data and locks the steering. These settings are user defined. The pivot point between trailer and drawbar is angled. This secures a better stability when turning.

Easy connection to the tractor

When the IntelliTrack has been calibrated, the operator only needs to attach 2 small chains to the tractor, before he can start spraying. Together with the brackets, the two connection chains build a trapeze which tolerates slack forced by the coupling bolt or by drawbar torsion.



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 centre of the working zone. The logically placed handles with easy-to-read icons make the system very intuitively to operate and greatly reduce the start-up and operation time of the sprayer.



Pump

The NAVIGATOR liquid system is driven by the robust grease-lubricated HARDI 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



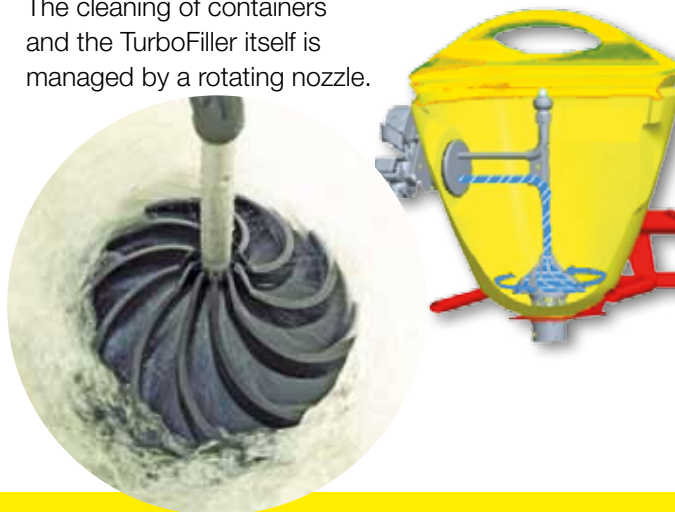


TurboFiller

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 the 95 cm high filling position is easily made by means of a spring-loaded bracket with automatic transport lock.

A multifunctional 3-valve operating unit and a cleaning pipe make the chemical filling easy and efficient. The cleaning of containers and the TurboFiller itself is managed by a rotating nozzle.

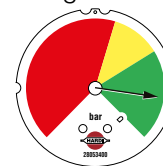


EasyClean filter

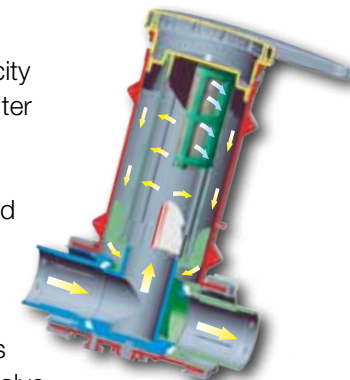
The EasyClean filter is a high capacity suction filter. The condition of the filter can be constantly monitored via a SafeSpray vacuum gauge.

This ensures that the filter is cleaned when needed and

only when needed. When cleaning the filter, all you have to do is



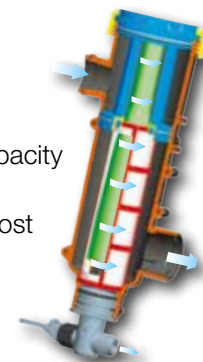
to twist the lid 90°. This will close a main tank valve in the bottom of the filter and open the filter for inspection.



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.



DilutionKit

The HARDI NAVIGATOR can be equipped with a DilutionKit. This system allows the operator to flush the liquid system from the driver's seat.

The operator can flush only the boom or rinse the tank with the flush nozzles. 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.



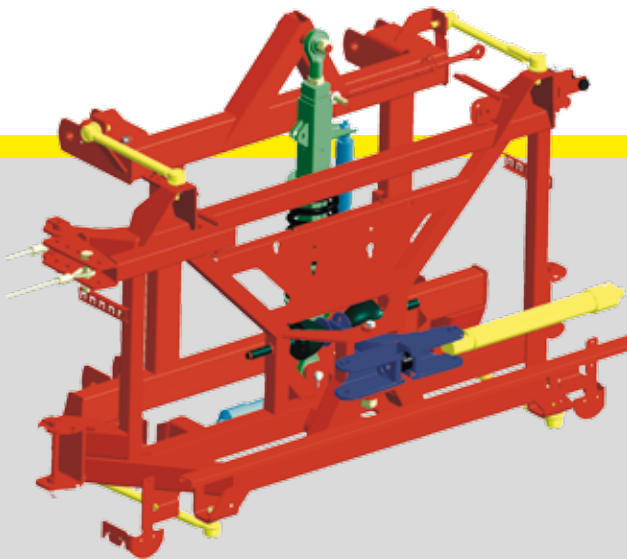
Booms

DELTA

The 18-28 m DELTA boom is a compact high-performance boom built for the very demanding user. The boom has highly advanced suspension features, which in combination with the three-dimensional boom design ensures most accurate application.

The centre section with coil spring pendulum and telescopic dampers absorbs the movements caused by the tractor and the trailer. The hydraulically activated pendulum lock stabilizes the boom whilst folding or unfolding.

A unique anti-yaw system dampens the forward and backward horizontal movements as well as any horizontal shock load.



The HARDI AutoSlant and AutoHeight

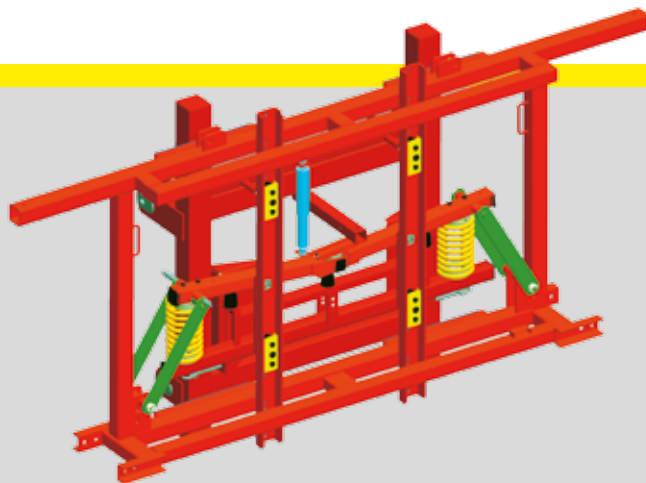
systems will automatically control the boom. This gives the driver a much easier work, and the result will be a better spray application.

- Robust and precise ultrasonic sensors
- Choose between soil or crop mode
- Proportional valve for smooth movements (AutoHeight)
- Slant, tilt and height correction (AutoHeight)
- Slant and height correction (AutoSlant)

EAGLE

The 18-30 m 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.

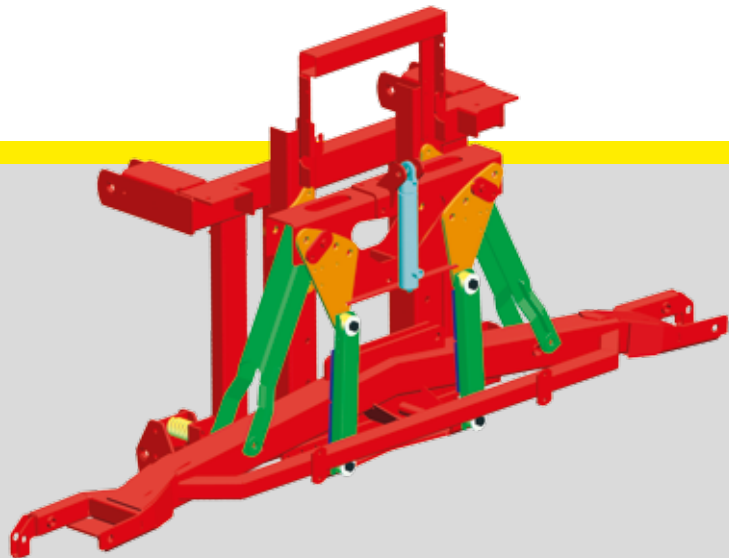


The EAGLE boom is available with two different hydraulic set-ups. Y-version gives an easy folding where left and right side of the boom are folded symmetrically. Z-version is electro-hydraulic and gives the possibility of individual tilt and single-side folding. Boom slant is an option on both versions.

PRO

The 12-18 m vertically folded three-dimensional PRO boom offers every conceivable facility to meet different spraying requirements. The PRO boom has a transport width of only 2.55 m and is the ideal solution where a small, flexible boom is needed.

The lattice boom structure ensures a strong and rigid boom, the basis for exact and uniform spray distribution. Nozzle holders, spray lines and hoses are all well protected within the boom design.



Like the EAGLE boom the PRO is available with two different hydraulic set-ups. Y-version gives an easy folding where left and right side of the boom are folded symmetrically. Z-version is electro-hydraulic and gives the possibility of individual tilt and single-side folding. Boom slant is an option on both versions.

Controllers

HC 6500

With its large colour display and joystick operation, the HARDI Controller 6500 is the top end of spray controllers. Designed specifically for sprayers, the HC 6500 will make the NAVIGATOR an even more obvious choice.

HC 6500 is designed only for spraying, which means that there is no compromise in functionality to meet the demand for other implements. The ergonomic optimal design supports the demands given by long working hours and easy operation. All buttons are placed in a logical way which harmonizes with the corresponding function. As an example, all functions normally used during the spray job are placed in the joystick, so these functions can be activated without lifting the arm from the seat's arm rest. To make it as easy and simple as possible, the connection between sprayer and tractor is made with only one cable.



HC 5500

The HARDI Controller 5500 is a powerful computer that will make the liquid system smarter, the features easier and safer to use and easily supply more information. It is the obvious choice where features like IntelliTrack and advanced farming tools are desired. The operator is instantly informed of the operation status and warned if vital parameters like pressure, speed, etc. are incorrect. It is advanced farming, ready with up to 98 register and connection possibilities to a site-specific application map or a remote sensor. Various optional extras like AutoSectionControl, TankGauge or 12-V printer are available.

The LogicMenu makes it easy to get vital information very quickly; when pressing pre-set keys, the information appears in the large-format area of the screen. They double up as short cut keys for the most used functions. Volume rate can be changed on the go as a percentage or as a volume value.

HC 2500

The HARDI Controller 2500 is very simple to use. The volume rate is automatically controlled. Pressing the “up” arrow increases the volume rate ... it is easy, quick and simple.



Controller	HC 2500	HC 5500	HC 6500
Number of registers	8+1	98+1	98+1
Maximum number of distribution valves	7	9	13
“GPS”, data transfer and print	No	Yes	Yes
Clock (Time/Date/Alarm/Stop watch)	No	Yes	Yes
Alpha-numeric keyboard	No	No	Yes
Colour display	No	No	Yes
Help functions	No	No	Yes
Dilution kit	Yes	Yes	Yes
Foam marker	No	Yes	Yes



Optionals

- ① **Tracking with 2 cylinders**
- ② **TurboFiller**
- ③ **FastFiller or PumpFiller**
- ④ **ProFlow**
- ⑤ **RinseTank**
- ⑥ **Pressure Empty**

- ⑦ **SafetyLocker**
- ⑧ **Adjustable axle**
- ⑨ **SmoothRide suspension**
- ⑩ **Mudguards**
- ⑪ **Clean Water tap**
- **Controllers**
- **Dilution**



In-Line Filter



ChemLocker



BoomFlush



External Cleaning Kit



EcoFill coupling



Foam Marker



HARDI AutoSlant/AutoHeight



Hoses for liquid fertilizer



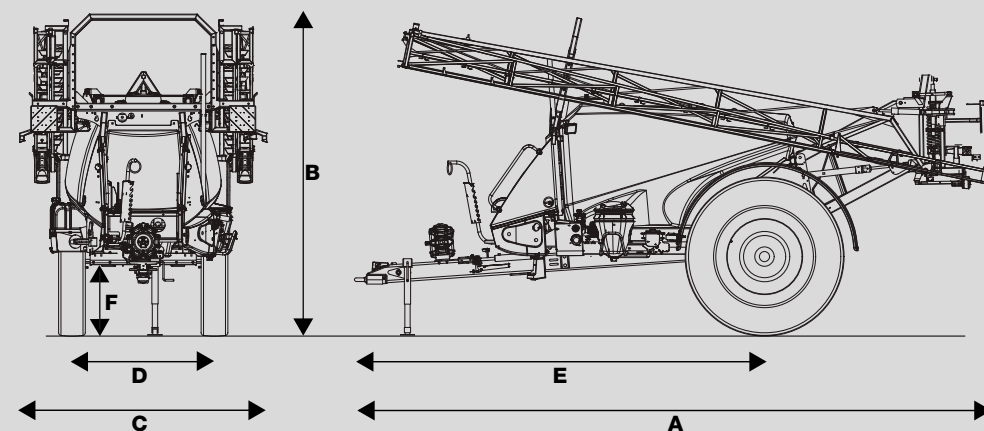
BoomPrime



Night Spraying Light

Technical specifications

Tank, l	3000 (3350)	4000 (4450)
Pumps, type – l/min	303 -114 / 363 -194 463 - 276 / 463H - 322	
Booms	EAGLE 18-30 m / PRO, 12-18 m / DELTA, 18-28m	
Suspension	Optional	
Tracking	Optional	
Hydraulic outlets needed (Y models)	1 single + 1 double acting	
Hydraulic outlets needed (Z models)	double acting	
Turning radius IntelliTrack, m	6.0	
Total length, m A	7.38	
Total height, with PRO boom, m B	3.05	
Total height, with EAGLE and DELTA boom, m B	3.98	
Width with EAGLE boom, m C	2.97	
Width with DELTA boom, m C	2.55	
Width with PRO boom, m C	2.43	
Track width fixed axle, m D	1.80 / 2.00	
Track width adjustable axle, m D	1.50 – 2.25	
Length draw to axle, m E	4.64	
Clearance, m F	0.8 (13,6 × 48)	
RinseTank, l	500	
Clean Water Tank, l	20	
Weight on drawbar (empty tank)*, kg	280	460
Weight axle (empty tank)*, kg	3,120	3,020
Weight total (empty tank)*, kg	3,450	3,480
* Weight 3000 l is with 24 m EAGLE boom, 4000 l with 28 m DELTA-Z boom		





*Høje Taastrup,
Denmark*

*Nørre Alslev,
Denmark*

*Savigny,
France*

*Beaurainville,
France*

*Davenport,
USA*

*Lleida,
Spain*

*Adelaide,
Australia*

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.



Superb surface treatment

The high-technology surface treatment contains 13 treatments, including an Oxsilan pre-treatment and powder coat painting of all major components.

Together with the Delta/Magni treatment of nuts, bolts and other items, we supply high corrosion protection of our products. The chassis, the boom and all other steel parts have been pre-treated with Oxsilan followed by a high-quality coating of powder paint.

HARDI Ltd.

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The Sprayer

Testing procedures

Sprayers leaving HARDI INTERNATIONAL A/S are tested according to the strictest quality standards.

The staff of the assembly line is accredited to match the demands from both NSTS (National Sprayer Testing Scheme), UK and JKI (Julius Kühn Institut), Germany. This ensures that the highest quality sprayers are delivered to farmers.



Read more at www.hardi-international.com

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

