The intelligent sprayer

Fields ahead
Tank capacity: 3300, 4500, 5500 and 7000 l
Controller: HC 6500 or HC 9500 - ISO
TurboFiller: Integrated working table, high capacity
Liquid system: DynamicFluid4 - shorter response time and more precise application in the field
Tracking: SafeTrack (optional)

**COMMANDER**

**Concept**
Farming practices are constantly changing. Farmers are met with a daily challenge to improve capacity and reduce operating costs. To help you to meet this challenge, HARDI has developed the COMMANDER trailed sprayers.

The COMMANDER is designed to meet the demands of the modern professional farmer worldwide. This generation of sprayers is designed to lead the way in capacity, reliability, safety, optimization, ease of operation and precision.

The COMMANDER is a high-end performer designed for continuous use by demanding operators. An example of the functional design is the logical layout of the left hand side of the sprayer, where all primary operations are located.

Take a closer look at some of the features making the COMMANDER the best choice on the market for trailed sprayers.

**Tank capacity:**
- 3300, 4500, 5500 and 7000 l

**Controller:**
- HC 6500 or HC 9500 - ISO

**TurboFiller:**
- Integrated working table, high capacity

**Liquid system:**
- DynamicFluid4 - shorter response time and more precise application in the field

**Tracking:**
- SafeTrack (optional)

**Axle:**
- Adjustable 1.8 – 2.25 m

**DELTA:**
- Booms from 18 to 24 m

**FORCE boom:**
- High performing booms from 24 to 36 m

**TWIN FORCE boom:**
- Air-assisted booms from 18 to 36 m

**TERRA FORCE boom:**
- Heavy-duty, high performance, DynamicCenter, AutoTerrain (optional), from 36 to 42 m

**Commander: Optimal precision and capacity by demand**

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**Concept**

**DynamicFluid4 liquid system**

The DynamicFluid4 liquid system on COMMANDER sets new standards for precision and capacity. A technology based on 4 sensors built into the fluid system is feeding the spray computer with data needed to make the optimal regulation.

**TWIN FORCE**

TWIN – Make money on your spraying budget. The world’s best application system will help you saving up to 30% of your chemical costs, and with higher spraying speed and lower drift you can boost your capacity up to 100%.

The TWIN system will enlarge your spray window to be able to spray in more windy conditions making the job easier for you.

**Intelligent spraying – Fields ahead**

The SprayCircle outlines the elements when preparing, spraying and finishing a spray job, and how the intelligent features of COMMANDER and the HC 9500 assist the operator.

**TWIN – Touch the future with integrated electronics – HC 9500**

The HC 9500 controller provides growers a powerful, full-featured precision farming tool for guidance, data logging, application report generation, automated steering, etc.
Chassis
The heavy-duty COMMANDER chassis and axles are designed for high speed driving under the most demanding field and road conditions ready to meet the tough demands of the professional farmers.

The platform is compact and very easy to access and gives you unobstructed access to the tank lid. The rear and floor plate can be removed allowing easy access to the fuel and electric system.

Suspended axle and drawbar
The HARDI COMMANDER is available with an optional unique hydraulic suspension system. The strong hydraulic cylinders absorb the shock loads instead of transferring them to the boom and the tractor. This offers you a high comfort level at high driving and spraying speeds.

The drawbar and axle on the COMMANDER 7000 l are as standard fully suspended. Axle suspension on 5500 l is an option. The full up and down load at the drawbar from the sprayer to the tractor is transferred through rubber dampers built into the chassis.

High quality surface treatment
The chassis as well as all other steel compo- nents have been pre-treated with zinc phosphat class before a high quality coating of powder paint. This treatment provides outstanding pro- tection against corrosion from chemicals and harsh weather conditions.

Low center of gravity
The design of the chassis with all steel parts located as low as possible in combination with a perfect match with the polyethylene tank provides low center of gravity.

Chassis
The HARDI SafeTrack is available on the COMMANDER (optional). This revolutionary design merges the benefits from other traditional systems into one high performance system. With the HARDI SafeTrack you do not have to choose between either tight turning radius or stability.

This ensures a minimum of crop damage combined with safe and user-friendly operation. A computer constantly monitors forward speed and turning radius to make sure that the correction made by the tracking system is as safe as possible.

SafeTrack
The SafeTrack ensures that the boom is always 100% perpendicular to the tramlines. This ensures perfect application when turning at the end of the fields.

Safe in all conditions
If the tractor driver tries to do a 90° turn at for example 15 km/h, the SafeTrack system automatically computes the data and straightens up the trailer to prevent lifting over.

The unique geometry in the SafeTrack concept, with trapeze arms, gives a turning radius down to 6 m.

In transport mode, the SafeTrack function automatically locks in straight ahead position.

Drawbar
The drawbar of the 5500 and 7000 l has a hydraulic support leg as standard and is driven by a separate hydraulic outlet on the tractor. This ensures easy and safe attachment of the sprayer.

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The COMMANDER has a WorkZone where all primary functions are placed in an easy to reach position. Everything you need to operate the sprayer is available in this area and everything is designed to be simple and logical to understand and operate. The large safety locker is placed right over the WorkZone along with the clean water tank.

SmartWares

All primary functions needed to operate the sprayer when filling or cleaning is located in the centre of the WorkZone. The logically placed handles with easy to read icons make the system very easy to operate, which greatly reduces the start-up and operation time of the sprayer.

TurboFiller

This HARDI TurboFiller is developed to handle large quantities of powders and liquids. Its high capacity is achieved through a combination of high vacuum and liquid rotation produced by a TurboDeflector inside the hopper.

High mixing capacity

Liquid at high pressure is being used to create a powerful rotation of the liquid inside the hopper. This movement gives the effect that every powder or liquid chemical are mixed before they are sucked into the sprayer.

Fluid system - DynamicFluid4

Dynamic fluid system based on 4-sensor technology

The fluid system on the COMMANDER is a new concept developed to obtain shorter response time and thereby more precise application in the field.

Powerful tractors with clutch free gearshift and CVT transmissions have given new driving patterns for the performance of the liquid system.

The HARDI TurboFiller is developed to handle large quantities of powders and liquids. Its high capacity is achieved through a combination of high vacuum and liquid rotation produced by a TurboDeflector inside the hopper.

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The COMMANDER liquid system is driven by the robust grease-lubricated HARDI diaphragm pumps. The diaphragms separate the liquid from the vital parts of the pump such as 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

The DynamicFluid4 system will calculate the consequences of the increased RPM and make the regulation instantly. The DynamicFluid property of pro-acting is based on 4 sensors in the fluid system measuring RPM, position of regulation valves, flow and pressure. Together with new software and new unique ceramic regulation valve, DynamicFluid4 is offering precision in the application rate giving the best performance available on the market.

Stability and safety

The sensors in DynamicFluid4 each have their individual task, but they will also work as back up for each other and the regulation will continue. Regulation can be done manually.

CycloneFilter

The CycloneFilter at the pressure side is a unique self-cleaning filter with a high-speed cyclonic 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.

The COMMANDER filter system consists of the exclusive HARDI EasyClean filter and CycloneFilter.

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 not when wasted. 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.

The COMMANDER has a WorkZone where all primary functions are placed in an easy to reach position. Everything you need to operate the sprayer is available in this area and everything is designed to be simple and logical to understand and operate. The large safety locker is placed right over the WorkZone along with the clean water tank.
**Controllers**

**HC 6500**  
HC 6500 is designed for spraying, which means that there is no compromise in functionality to meet the demand for other implementations. The ergonomic optimal design supports the demands given by long working hours and easy operation. All buttons are placed in a topically way which harmonises 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 easy and simple as possible, the connection between sprayer and tractor is made with only one cable.

**HC 9500**  
All the main spraying functions are operated with the HighPower multifunction joystick in conjunction with the HC 9500 12.1” touch screen sprayer controller to provide the highest level of performance and application precision. The HC 9500 controller provides grows 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. So the HC 9500 could also operate as the HC 6500.

The complete integration of all important information on one work screen is an important criterion. On the HC 9500 work screen the driver can operate AutoTrack, AutoHeight, AutoSection-Control as well as guidance and dosing.

**ISOBUS prepared**

The COMMANDER can be operated by existing ISOBUS Virtual terminals. To make the complex spray operation easier, the proven HARDI DNP will be delivered with the sprayer as all primary spray functions, such as ON/OFF and section switches as well as the hydraulic operation easily can be taken place by means of a joystick. Also a SetBox will be used to operate sprayer specific equipment at TRV or air assistants or BathTrack steering directly.

The VT work screen is similar to the HC 6500 work screen. If the existing terminal has an automatic section control which is following the defined task controller function of the ISOBUS standard, the ISOBUS terminal can operate the distribution valves of the COMMANDER, so thecustomer does not need a separate HARDI AutoSectionControl.
**COMMANDER - Fields Ahead**

**DynamicFluid4 liquid system**

HARDI has developed a unique DynamicFluid4 liquid system which will be able to fill faster and more efficiently than any other liquid system due to the so-called “turbo deflector” and to the agitation system where the agitation action on the tanks get empty – also powered by the Dynamic Fluid4.

**Integrated electronics**

The HC 9500 touch screen controller is a top of the line solution that guarantees the demanding farmer with a need for a larger monitor solution that immediately gives an efficient data.

**Agitation system**

With today’s tank sizes and demands for an optimal agitation, HARDI has improved the unique agitation system for an automatic and user friendly cleaning of the tanks, hoses and nozzles.

**AutoWash**

To improve the usability for the farmer, HARDI has developed the second generation of AutoWash system for an automatic and user friendly cleaning of the tanks, hoses and nozzles.

**Boom performance**

A strong boom portfolio assures that you have the best set-up for your chosen sprayer. TERRA FORCE, FORCE, DELTA and TWIN FORCE will all give you the performance and stability expected from a modern boom.

**Integrated TurboFiller**

With the TurboFiller you will be able to fill faster and more efficiently than with any other filling system due to the hopper “wiping” the chemicals from the bottom via the TurboDeflector.

**SafeTrack**

The unique SafeTrack system will help you control the boom of your sprayer and make sure that the boom is lifted to a right position. This prevents the abnormal mooning of the boom. The SafeTrack lets you keep the boom up when the tractor is turning and reduces the risk of damaging the nozzles.

**Integrated electronics**

With the HC 9500 touch screen controller, HARDI has a top of the line user-friendly controller for the demanding farmer with a need for a larger monitor solution that immediately gives an efficient data.

**Reduced “downtime”**

The COMMANDER is equipped with the best possible tools to keep the downtime as low as possible. bull, the Remote Greasing and the good access to all service points has reduced the time doing service.

**Integrated TurboDeflector**

The TurboDeflector system will help you fill faster and more efficiently than any other filling system.

**AutoWash**

To improve the usability for the farmer, HARDI has developed the second generation of AutoWash system for an automatic and user friendly cleaning of the tanks, hoses and nozzles.

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**Functional design**

To give the end user the highest possible comfort, FUNCTIONAL DESIGN combines user friendliness and a logical structure. The design of our sprayers not only improves the user experience, but also the spray job. The tank design helps the agitation and makes sure you can use every drop of chemical saving up to 60% of your chemical costs.

**AutoFill**

AutoFill is a logical structure that helps you control the boom of your sprayer and make sure that the boom is lifted to a right position. This prevents the abnormal mooning of the boom. The SafeTrack lets you keep the boom up when the tractor is turning and reduces the risk of damaging the nozzles.

**TWIN - The ultimate in capacity**

The world’s best application system will help you filling the tank at a speed of 10 m/s. The TWIN FORCE will all give you the performance and stability expected from a modern boom.

**Quality stamp**

With more than half a century of experience, we know that quality is the most important factor in choosing a sprayer. Therefore, we only use proven components and ISO certified nozzles, while cross distribution spray scanner tests are done in both UK and Germany.

**Boom performance**

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To improve the usability for the farmer, HARDI has developed the second generation of AutoWash system for an automatic and user friendly cleaning of the tanks, hoses and nozzles.
The TERRA FORCE boom is offering the most outstanding when it comes to strength, performance and capacity. 3-dimensional boom structure with a layout for only pushing and pulling forces secures optimal strength. High performing yaw dampening: Hydro-pneumatic dampers combined with 4 polyurethane dampers give stability and minimum stress when turning and also for acceleration and deceleration. Partial fold and tilt suspension are options which secure optimal performance and flexibility. TERRA FORCE is available from 36-42 m.

TERRA FORCE booms are available on COMMANDER 5500 and 7000 l.

The angling of the air curtain together with the spray swath is a distinctive and important feature on the HARDI TWIN. This allows for more precise application depending on crop and weather conditions.

Two powerful blower units provide air to the left and right boom sides respectively. This provides a powerful and even air distribution through the whole boom. The large amount of air produced by the double fans allows for faster application speeds even under very difficult weather conditions.

DynamicCenter

Two unique HARDI boom management systems

DynamicCenter has manual adjustment of the centre characteristics. The setting is done on-the-go from the cabin. It will change the boom from being 10% sprayer following (pendulum like) to be 80% sprayer following.

AutoTerrain is an automatic boom management system which works and reacts on both boom movements and twisting forces on the boom. This allows the AutoTerrain to be proactive and react on the cause more than on the symptom.

Terrain Flat/Hilly

Ultrasonic sensor measuring the distance to the two pins below. One pin is placed on a spring-loaded body. It will move up and down depending on the torque of the boom. This is what makes the system works proactively.

TWIN advantages:
- Spray faster - increase capacity up to 100%
- Save up to 30% in chemical consumption
- Optimal field timing
- Drift reduction

Booms

TWIN FORCE

The HARDI TWIN booms after the ultimate in capacity, weather independence and application technology. The ideal high-capacity solution for most users.

The TWIN FORCE boom is available in sizes from 18 to 36 m. The TWIN FORCE boom is a 3-folded hybrid boom in a 3-dimensional box section lattice design. The inner wings are made in steel and the outer wings in aluminium. The big TWIN FORCE booms can be half-folded, 17.5 m in 17 m and the 36 m down to 18 m.

TWIN advantages:
- Spray faster - increase capacity up to 100%
- Save up to 30% in chemical consumption
- Optimal field timing
- Drift reduction

TWIN FORCE is available from 18-36 m.

The TWIN FORCE is available on COMMANDER 5500 and 7000 l.

TWIN Force

Two powerful blower units provide air to the left and right boom sides respectively. This provides a powerful and even air distribution through the whole boom. The large amount of air produced by the double fans allows for faster application speeds even under very difficult weather conditions.

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AutoTerrain is an automatic boom management system which works and reacts on both boom movements and twisting forces on the boom. This allows the AutoTerrain to be proactive and react on the cause more than on the symptom.
FORCE

The FORCE boom is available in 24 to 36 m. The FORCE is the perfect choice for large scale farmers and contractors looking for unmatched performance and dependability. The rugged 3-dimensional structure guarantees unrivalled durability.

Five exceptional damping features
1. Coil spring Two large coil springs dampen movements directly up and down from the field.
2. Pendulum The Pendulum dampens fast side movements and keeps the boom horizontal.
3. Pendulum damping A hydraulic damping cylinder that is fully adjustable dampens the pendulum.
4. Guide rods The sensitivity of the pendulum can be adjusted by moving the guide rods, ensuring a perfect boom ride under all conditions.
5. Anti-Yaw A unique anti-yaw system dampens the forward and backward horizontal movements as well as any horizontal shock load.

AutoHeight
The HARDI AutoHeight system will automatically control the height, tilt and slant functions of the boom. This gives the driver much easier control of the boom and the result will be a better spray application. The system has 3-5 ultrasonic sensors and with the proportional hydraulic system, the boom moves in slow movements, even at speeds over 20 km/h.

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 3-dimensional boom design ensures most accurate application. Delta booms are only available on COMMANDER 3300, 4500 and 5500 from 24 m.

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 COMMANDER is available with a range of booms from 18-42 m. All booms have pendulum suspension with anti-yaw dampening and are fully adjustable to suit both rough and steep terrain.

**DELTA 18-28 m**
The DELTA boom shares most of the features from the FORCE range and is available in boom sizes 18-28 m. The DELTA boom is the perfect choice for the medium to large farms.

**FORCE 24-36 m**
The FORCE boom is developed for large scale farming and demanding field conditions. The FORCE boom will meet the tough demands from farmers worldwide.

**FastFiller**
The high capacity FastFiller is capable of filling up to 800 l/min. The system is 100% self-priming. It works in combination with the ChemFiller, and simultaneous filling from both.

**Night Spraying Light**
Working light can be fitted if spraying and mixing are done at night.

**Pressure Emptying**
When fitted, this allows you to return liquid fertiliser or any other solution back into the storage tank.

**FlexCapacity pump system**
The pump system in the FORCE, TWIN FORCE and TERRA FORCE boom can be equipped with a FlexCapacity pump system.

**ChernLocker**
A ChernLocker can be fitted and hold chemical containers or bags.

**External Cleaning Equipment**
Spray gun and hose wheel for external cleaning.

**Hydraulic support leg**
for 3300/4500.

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**FORCE 24-36 m**
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**TWIN FORCE 20-36 m**
The TWIN FORCE boom functions the same and durability as the FORCE boom combined with the advantages of HARDI’s unique TWIN air system. The TWIN system allows for faster spraying speeds, better penetration into difficult crops and spraying when conditions with a conventional sprayer would be marginal.

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### Technical specifications

<table>
<thead>
<tr>
<th>Tank, l</th>
<th>3300</th>
<th>4500</th>
<th>5500</th>
<th>7000</th>
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<tbody>
<tr>
<td>Pumps, type – l/min</td>
<td>DELTA/FORCE/TWIN</td>
<td>DELTA/FORCE/TWIN</td>
<td>DELTA/FORCE/TERRA/TWIN</td>
<td>FORCETERRA/FORCETWIN</td>
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<td>Hydraulic suspension</td>
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<tr>
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<td>3.60 (13.6 × 48)</td>
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<td>Weight</td>
<td>kg</td>
<td>491</td>
<td>519</td>
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<td>3,204</td>
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<td>Weight</td>
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</table>

* Weight 3300 l is with 24 m DELTA boom, 4500 l is with 28 m TWIN boom, 5500 l is with 24 m TWIN FORCE boom and 7000 l is with 36 m TERRA FORCE boom.*
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.

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.