



More capacity and intelligence

MEGA

1200 / 1500 / 1800 / 2200



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Easy operation – Full performance

Spray faster and carry more liquid. The MEGA sets new standards for lift-mounted sprayers. With its sleek and modern design and unparalleled comfort for the driver, we have designed a machine that will keep you spraying all day.

Minimum downtime

With the introduction of the SmartCom digital platform, we are not only offering you a fully ISOBUS-controlled sprayer, but also a

minimum of downtime. Through diagnostics, our service team can assess the health of your machine to get you up and running quickly. The platform also supports the liquid system, thereby allowing faster spraying speeds with higher volume rates.

Superb comfort

When in the field, the AirRide suspension will reduce shock loads on the machine, resulting in a more stable boom and higher comfort for the driver.

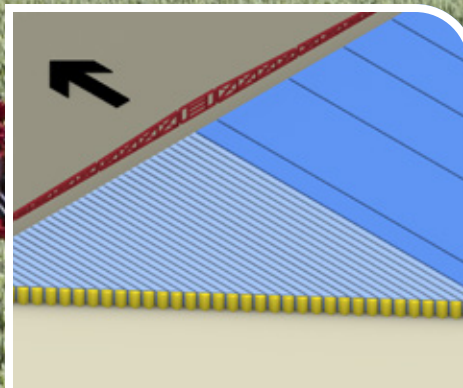
SPECIFICATIONS

- › **Tank sizes:** 1200, 1500, 1800, 2200 l
- › **Controller:** HC 7500, HC 8600, HC 9600, HC 8700, HC 9700 or ISOBUS
- › **TurboFiller:** High capacity, easy to operate
- › **Liquid system:** DynamicFluid4
- › **Chassis:** High-tensile steel chassis
- › **PRO booms:** Compact, vertically folded booms 15, 18 m
- › **VPZ booms:** Strong and rigid booms, due to the lattice boom structure, 21, 24, 27, 28 m



TurboFiller – Fast and easy filling

With its user-friendliness, high capacity and fast filling speeds, the unique TurboFiller creates a powerful liquid circulation in the hopper and mixes all types of chemicals quickly and safely.



Save up to 10% liquid

Minimize double sprayed area thereby saving up to 10% chemicals and avoid crop damage due to double spraying. Get full control of your spray job with the automated nozzle on/off feature AutoNozzleControl. Thanks to the PrimeFlow system, you will receive the highest level of precision, due to the exact control of each nozzle.



Connect

Besides offering you a full ISOBUS experience for easy connection of controllers, the HARDI SmartCom will provide quick and easy diagnostics with the HARDI ServiceTool. And due to the faster processing speed, you will experience a faster and very precise regulation system. On top of this, cloud connections will prepare you for remote diagnostics.



AirRide suspension for impressive comfort

For your unparalleled comfort, both in the field and on the road, the lower linkage-mounted AirRide suspension is permanently active.

WorkZone

Easy operation

The MEGA has been designed with a strong focus on user-friendliness and ease of operation, with the WorkZone being a fine example. In this area, everything you need to operate the sprayer is available, with all primary functions placed in easy-to-reach positions. The WorkZone is designed to be simple and logical to operate.

CleanWater tank for hand washing

The 15 l tank is integrated into the design of the WorkZone to ensure easy access and operation.

Easy access to the tank lid

The lid is located close to the ladder, on the right side, allowing easy inspection of the tank. Additionally, the tank is designed to give the operator excellent visibility of all tank walls.

Excellent service access

To aid service accessibility, the majority of electronic components and connections are located in a box behind the main tank, well protected from chemicals and the elements.

Easy access to filters

To ensure easy reach from the ground, the EasyClean suction filter is placed on the right side of the machine and the Cyclone pressure filter on the left.

Protected placement of gauges

With excellent visibility from the tractor, the pressure gauge is well protected mounted at the front of the sprayer as integrated components of the CleanWater tank.

SafetyLocker

For easy access within the WorkZone, we have located the SafetyLocker on the left side of the MEGA.

RinseTank – Safe and efficient cleaning

To enable safe and efficient cleaning in the field, we have added a 170 l RinseTank on the right side of the MEGA.



Left side of WorkZone

1. Manifold valve – pressure
2. Agitation valve
3. Manifold valve – suction
4. Pump/Filter coupling
5. TurboFiller
6. TurboFiller operating unit
7. Cyclone pressure filter
8. SafetyLocker
9. Pressure regulation valve – DynamicFluid4
10. Pressure empty coupling

Right side of WorkZone

11. EasyClean suction filter
12. RinseTank

Front of WorkZone

13. CleanWater tank



TurboFiller – Fast and easy filling

With its user-friendliness, high capacity and fast filling speeds, the unique TurboFiller creates a powerful liquid circulation in the hopper and mixes all types of chemicals quickly and safely. The cleaning of containers and the TurboFiller itself are managed by a high-pressure, rotating nozzle and a separate hand lance for larger containers.

DilutionKit – Easy cleaning of spray lines

Without leaving the driver's seat, the DilutionKit allows you to flush and rinse the boom and tank together, or the boom alone. All return lines and agitation will be flushed when spraying the diluted liquid from the main tank.

Powerful agitation

To avoid blind spots in the tank, Venturi nozzles are used to increase the input for agitation by approximately 4 times. The agitation concept has proven to be extremely efficient for both liquid and powder.

The liquid system

— Fast and reliable

The MEGA's fluid system (DynamicFluid4) employs advanced fluid dynamics and application rate control to deliver fast response and accurate target rate application.

Pressure, flow, pump speed, forward speed, boom sections and application rate are monitored and processed using advanced computations. The DynamicFluid4 processor analyses the spraying data 20 times a second and provides pre-emptive rate control capability, altering the pump speed with pinpoint precision.

The liquid system can be operated from the cabin or from the ground.

The diaphragm pump

At the heart of the MEGA sits the robust and easy-to-service pump that HARDI is so well known for. The invention of this pump constituted the foundation upon which HARDI was founded more than 60 years ago. HARDI was the first to use diaphragms to separate the liquid from bearings, crankshaft and other vital pump parts, thereby allowing the pump to run dry without damage. In addition, this pump distinguished itself by being operated directly from the tractor's PTO shaft.



Advanced filters

- ▶ EasyClean filter (Suction)
- ▶ CycloneFilter (Pressure)

Suction filter

The EasyClean filter is a high-capacity suction filter. The filter's condition can be constantly monitored via a SafeSpray vacuum gauge to ensure it is cleaned only when necessary. When it's time for cleaning, simply twist the filter's lid 90° to close off its tank valve and open the filter for inspection. It doesn't get much easier than this.



Pressure filter

The CycloneFilter is a unique self-cleaning pressure filter. A high-speed circular flow makes the cleaning very effective. A unique boost function allows the filter to be flushed when needed.



FrontTank



HARDI FrontTank

The HARDI front tank will give you extra options for your spray job, either as a nurse tank for bringing more water into the field, or combined with the main tank as one functioning unit.

The tank is made of high-impact polyethylene and has a liquid-free level indicator, located on top of the tank, for easy visibility from the driver's seat. The linkage is made for a category 2 front linkage.

Nurse tank solution

The FrontTank and frame can be used as a nurse tank solution. In the field, the water from the front tank can be sucked into the main tank, new chemicals can be added, and the spray job can continue without having to drive back to the filling station.

Chemical tank solution

By adding an agitation pump kit and an electric valve kit, the front tank can be used as a separate chemical tank. Thus, the operator can choose – from the comfort of the driver's seat – whether he wants to use the spray solution from the front tank or from the main tank.

In this scenario, the pressure empty function will be used for pumping liquid from the rear to the front tank. On the suction side, a remote S93 valve will be added. The return from sections and agitation is still active on the main sprayer, so the operator has to control that the main tank is not overfilled.

The front tank has, as a standard, a 135 l rinse tank. An optional 12 V pump enables continuous cleaning of the front tank.



Technical data

Tank size (net/gross) (l)	RinseTank (l)	Width (cm)	Height (cm)	Length (cm)	Weight (kg)
1200 / 1260	135	185	110	130	150
1500 / 1580	150	190	115	140	180

The linkage is made for a category 2 front linkage.

National legislations regarding axle overhang, road safety equipment and front axle load should be considered.

Instant spray control



PrimeFlow – Motorized nozzle on/off

PrimeFlow guarantees rapid priming and prevents sedimentation and clogging. When spraying is started, liquid has already been distributed in the entire boom, circulating at the requested pressure through the spray lines. When spraying is stopped, the liquid will continue to circulate at a standby pressure.

Even when spraying at low pressure, the spray lines are completely drained, leaving only a small residual volume, which means less liquid is required for cleaning.

- ▶ Pressure circulation system – fast priming no residues
- ▶ Electrically operated motor at each nozzle body
- ▶ No untreated areas at spray start
- ▶ No chemical sedimentation in the spray lines
- ▶ Flushing of boom lines without spraying
- ▶ Dynamic setup of sections from 1 to 12 nozzles
- ▶ HARDI TRIPLEholders for three nozzles

Single nozzle control – Maximum precision

Obtain full control of your spray job with our automated single nozzle on/off feature – AutoNozzleControl. In combination with the instant spray control offered by our PrimeFlow system, AutoNozzleControl gives you ultra precise spraying and faster driving speed with minimal overlapping.

AutoNozzleControl also allows you to switch off specific nozzles when turning on the headland and when spraying next to sensitive areas.

The system controls each nozzle automatically. In auto mode, the sprayer works with sections of 50 cm.

AutoNozzleControl:

- ▶ Save up to 10% chemicals
- ▶ Avoid crop damage
- ▶ Protect the environment

Field mapping – Minimise chemical usage and costs

Precision is the keyword when spraying, and for you to gain the highest precision, and to minimise the chemicals needed, the HARDI ISOBUS controllers offers the possibility of using field maps from your preferred farm management software. In this way, you are able to shut off boom sections automatically based on the field map.

Field mapping benefits:

- ▶ High precision
- ▶ Save chemicals
- ▶ Avoid overlapping areas

Controllers

Full ISOBUS control

Complete integration

The complete integration of all important information on one work screen is a highly demanded criterion for most farmers. The HARDI touch-screen controller series are very easy to operate while providing an optimal overview for maximum control of the spray job.

All HARDI touch-screen terminals are ISOBUS terminals and made for spraying purpose. In combination with the Grip and the SetBox the operation in the field is easy and fast.

Integrated electronics

From the working screen, the driver can operate AutoSlant, AutoSectionControl as well as guidance and dosing. The map screen view can 2D or 3D. The HC 9600, HC 8700 and HC 9700 screens are able to divide the information with split screen for a better overview.

Data management and data transfer

The USB ports and the WiFi adapter allows data to be exchanged. This simplifies application reporting, providing

an easy way to generate detailed application reports for governmental record keeping. The data can be transferred to different farm management software.

ISOBUS terminal

The SmartCom system is always ISOBUS. The customer can order the MEGA and use AutoSectionControl direct from his own ISOBUS terminal if supported. To make the complex sprayer operation easier, the proven HARDI Grip and Setbox are standard equipment.

Extend your work screen

Use your mobile device or tablet to perform calibration, diagnostics, tank fill and many other activities anywhere around your machine. Using the XTEND technology, you can extend the user interface of your HC 8700 and HC 9700 to the screen of a iOS or Android device using a WiFi connection.

Feature	HC 9700	HC 8700	HC 9600	HC 8600	HC 7500
Mode of action	12.1" (30.7 cm)	8.4" (21.3 cm)	12.1" (30.7 cm)	8.4" (21.3 cm)	5.7" (14.5 cm)
Mode of action	Touch screen	Touch screen	Touch screen	Touch screen	Button operation
ISOBUS Universal Terminal	✓	✓	✓	✓	✓
Mini view screens	3	2	UT Split screen	✗	✗
Dashboard & Interaction Keypad	✓	✓	✗	✗	✗
HARDI workscreen	✗	✗	✓	✓	✗
USB ports	✓	✓	✓	✓	✓
WiFi adapter	✓	✓	✓	✓	✗
Horizon XTEND	✓	✓	✗	✗	✗
AutoSectionControl	✓	✓	✓	✓	✗
Lightbar Guidance	On screen	On screen	In housing	In housing	✗
Coverage Mapping	✓	✓	✓	✗	✗
Data Logging	✓	✓	✓	✓	✓
Variable Rate Application	✓	+	✓	✓	✓
Application Report	✓	✓	✓	✗	✗
Boom Height Control	UT	UT	Integrated	Integrated	+ 3rd UT
Camera Support	✓	✓	✓	✓	✗
ISOXML data transfer	✓ In/Out	✓ In/Out	✓ Out	✓ Out	+ in / out



SmartCom

Prepared for the future



The HARDI SmartCom – A future of plug-and-play with unlimited capacity

The intelligent HARDI SmartCom platform offers the user a full ISOBUS experience, meaning easy connection to tractors and controllers. The faster processor also offers you a more accurate and responsive liquid regulation system.

We have prepared the HARDI SmartCom for online connections, so you will be able to connect to your favorite cloud solutions.

We have developed the new HARDI SmartLink cable to give the service staff the possibility of updating the sprayer, diagnosing errors and adding features, directly from the HARDI ServiceTool.

All in all, with the HARDI SmartCom, you are prepared for the future.



SmartCom benefits

- ▶ Full ISOBUS for easy connection
- ▶ Quick and easy diagnostics with the HARDI ServiceTool
- ▶ Prepared for remote diagnostics
- ▶ Faster and more precise regulation system
- ▶ Prepared for cloud connections
- ▶ Faster processing time



HARDI ServiceTool

Prepared for cloud connections

HARDI ServiceTool

The HARDI ServiceTool has two main functions. First it is used for updating the SmartCom ECUs, the second is to use it as a diagnostic tool in the field.



PRO and VPZ booms

– Durable booms in all sizes

The PRO 15-18 m and VPZ 21-28 m

To meet all spraying requirements, we have designed and manufactured the PRO and VPZ booms, utilising our knowledge and experience as the world's leading sprayer specialist.

The PRO booms 15-18 m have been equipped with an integrated AntiYaw dampening feature in the centre part to minimise the boom's yaw movements.

The VPZ booms 21-28 m have integrated AntiYaw dampeners on the boom wings, while the lattice boom structure ensures a strong and rigid boom; the bases for exact and uniform spray distribution.

The nozzles, spray lines and hoses are all well protected within the boom design, and a spring-loaded break-away section protects the tip of the boom.



Robust and stable boom

To secure a straight and reliable boom with minimal yaw movements, we have mounted locking devices between the different boom elements, essential for great performance in the field.



High boom lift – More flexibility

To give you a large span of boom working heights – from 50 cm to 210 cm – the VPZ booms are equipped with a long boom lift with a fast-reacting cylinder and hydraulic dampeners.

For even higher reliability, a hose-guiding channel has been mounted over the boom tilt.



Precise folding

Due to the design of our folding mechanism, the 27/28 m booms fold neatly to the same dimensions as those of a 24 m boom, always keeping the centre of gravity close to the tractor.

When in transport position, the boom is protected by a hydraulic dampener, and the whole sprayer benefits from the AirRide suspension's supreme shock-absorbing abilities.

The PRO boom

Known for its durability, the PRO boom with its reinforced boom hinges, ensures a steady boom in spraying position. The lattice structure ensures a strong and rigid boom; the basis for exact and uniform spray distribution. The nozzles, spray lines and hoses are all well protected within the boom design.

Besides offering a selection of boom widths from 15 m to 18 m, the PRO boom is also available with single-side folding and individual boom tilt for a more flexible boom.



Easy operation

Electro-hydraulic operation

To allow for easy and intuitive operation of the MEGA, all boom functions on the PRO booms 15-18 m and the VPZ booms 21-28 m can be electro-hydraulically operated from the SetBox.

Along with the primary spray functions, the HARDI Grip also controls in-field hydraulic functions such as boom height, independent tilting of individual boom sections and complete boom slanting.

Flexible folding

Since the MEGA is operated by direct hydraulics, only one double-acting outlet is required for 7 different operations.

The Z version offers several extra features, such as reduced folding, single-side folding and individual boom tilt.



SetBox and Grip



Easy access to fluid system

The fluid system can be easily accessed at the WorkZone on the left side of the MEGA, and the EasyClean suction filter is within easy reach from ground level at the right-hand side.



AntiYaw – Minimal yaw movements

Our entire boom range is equipped with an AntiYaw device. The AntiYaw secures optimal spray application and minimises stress on the sprayer.

The AntiYaw is incorporated into the VPZ boom, and into the boom centre of the PRO boom.



AutoSlant – Better height control

AutoSlant offers automatic control of boom height and slant functions.

AutoSlant is available for the vertically folded VPZ booms 21-28 m. AutoSlant is integrated in the ISOBUS terminal.

AutoSlant



Easy coupling

The 2200 I version has a standard category 3 coupling, the 1200-1800 I can be ordered with category 2 or category 3 couplings.



AirRide suspension for impressive comfort

For your unparalleled comfort, both in the field and on the road, the lower linkage-mounted AirRide suspension is permanently active. This increases the work rate by isolating the shocks from the tractor, providing a more stable platform to spray from, thus improving boom stability and allowing for increased forward speed.

Time spent away from the field can also be reduced due to the higher road transport speeds allowed by AirRide and its superior operator comfort.

Optionals



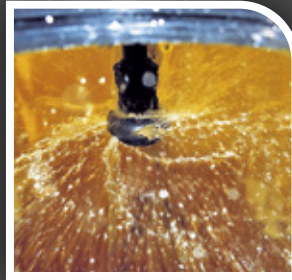
464 Pump



Transport wheels



AirRide



DilutionKit



HARDI ISOBUS terminals



FrontTank



Filling Device



InLine Filters



Boom Lights



External Cleaning



BoomPrime

Technical specifications

Tank size	1200	1500	1800	2200
Pump 364 (194 l/min)	•	•	•	•
Pump 464 (280 l/min)	•	•	•	•
RinseTank	170 l	170 l	170 l	170 l
Clean water tank	20 l	20 l	20 l	20 l

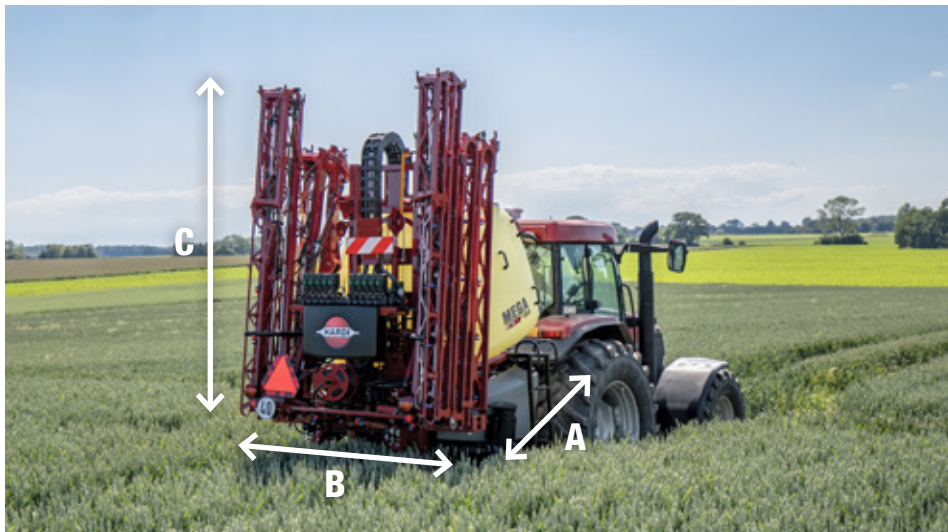
Weight, kg (empty)

15 m PRO	1013	1018	1049	1054
18 m PRO	1071	1076	1107	1112
21 m VPZ	1146	1151	1182	1187
24 m VPZ	1164	1169	1200	1205
27 m VPZ	N/A	1264	1308	1323
28 m VPZ	N/A	1278	1322	1337

Measurements, cm

	A x B x C	A x B x C	A x B x C	A x B x C
15 m PRO	172 x 234 x 288	172 x 234 x 288	182 x 234 x 288	182 x 234 x 288
18 m PRO	172 x 234 x 288	172 x 234 x 288	182 x 234 x 288	182 x 234 x 288
21 m VPZ	193 x 234 x 292	193 x 234 x 292	203 x 234 x 292	203 x 234 x 292
24 m VPZ	193 x 234 x 327	193 x 234 x 327	203 x 234 x 327	203 x 234 x 327
27 m VPZ	N/A	193 x 234 x 327	203 x 234 x 327	203 x 234 x 327
28 m VPZ	N/A	193 x 234 x 327	203 x 234 x 327	203 x 234 x 327

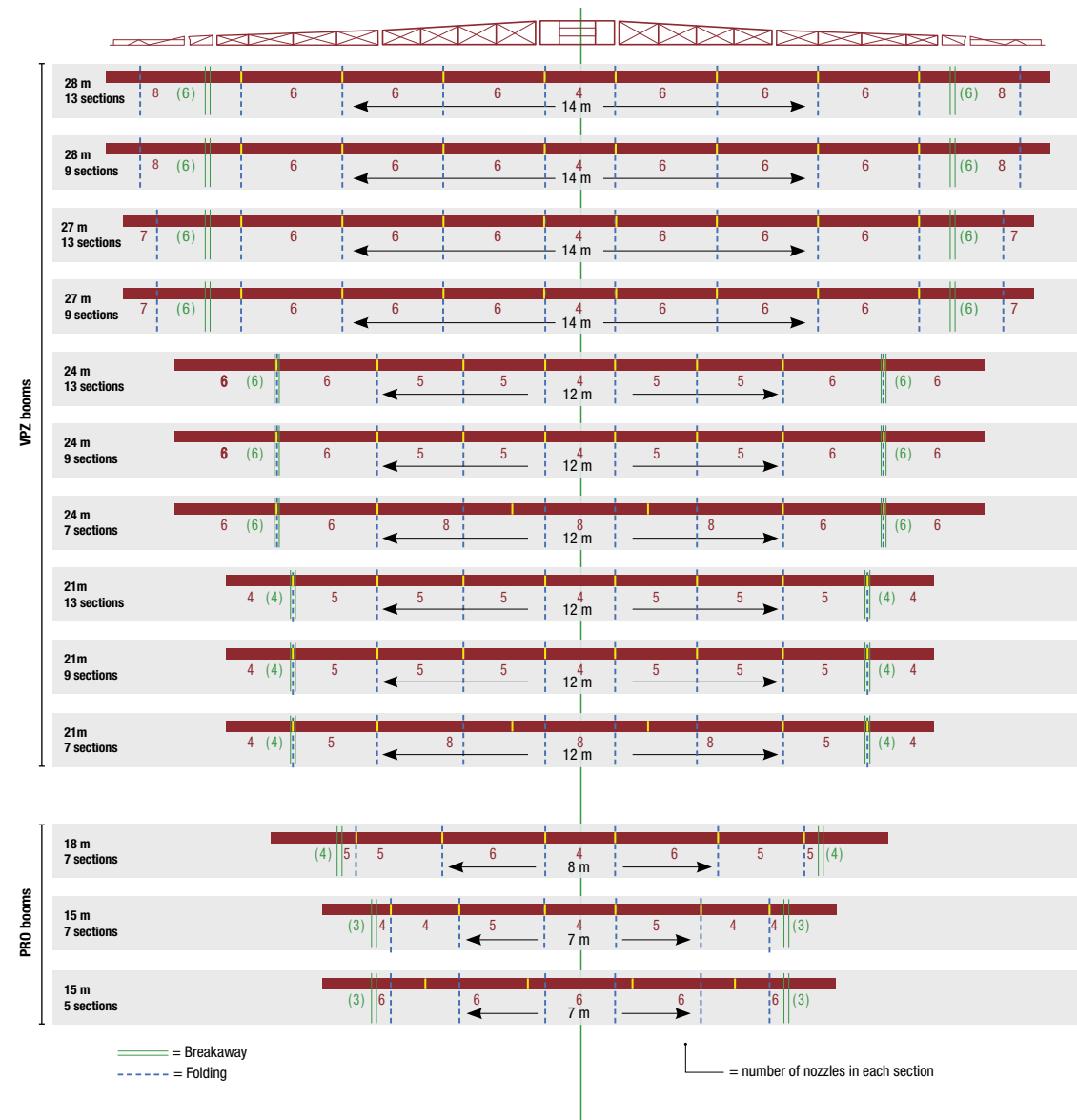
A = Total length in cm B = Maximum transport width in cm C = Total height in cm

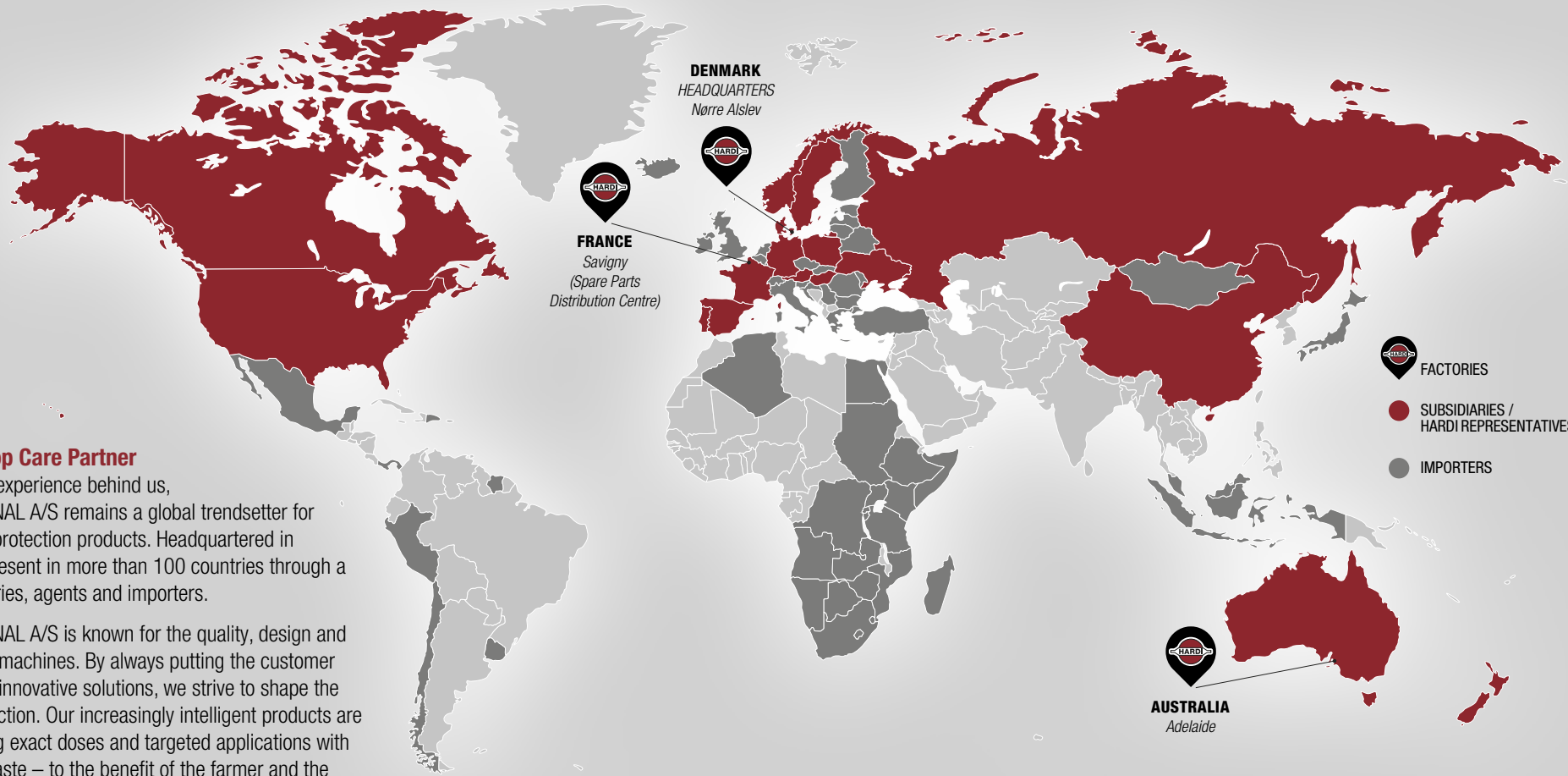


Boom sections

The vertically folded VPZ and PRO booms have 3, 4 or 5 segments on each boom wing.

The drawing illustrates how many nozzles each boom section has, and where the booms are folded.





HARDI – Your Crop Care Partner

With over 60 years experience behind us, HARDI INTERNATIONAL A/S remains a global trendsetter for application of crop protection products. Headquartered in Denmark, we are present in more than 100 countries through a network of subsidiaries, agents and importers.

HARDI INTERNATIONAL A/S is known for the quality, design and performance of our machines. By always putting the customer at the centre of our innovative solutions, we strive to shape the future in plant protection. Our increasingly intelligent products are capable of delivering exact doses and targeted applications with minimal drift and waste – to the benefit of the farmer and the environment.

We believe in a future where our products will be able to take care of plants one by one.

The HARDI Group is a division in the Agricultural Spraying segment of Exel Industries S.A.



HARDI INTERNATIONAL A/S

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Your Crop Care Partner



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