Proven technology

MASTER

HARDI

Proven technology MASTER

1000 / 1200 / 1500 / 1800

Master of performance

The MASTER is a popular choice for professional farmers looking for an economic lift-mounted sprayer. Several upgrades have led to the current version – a reliable, robust lift-mounted sprayer.

Tried, tested and trusted, the MASTER is particularly suitable for farms with smaller or irregularly shaped fields.

From its integrated QuickHitch for easy and safe tractor coupling to its centrally located and logically designed MANIFOLD with all fluid functions within easy reach, the MASTER is easy to operate and service.

A slim tank design and compactly folded booms ensure optimal weight distribution and tractor stability during spraying and road transport.

The MASTER is the only lift-mounted sprayer available with an air-assistance boom system for better drift control.

SPECIFICATIONS

- **Tank sizes:** 1000 / 1200 / 1500 and 1800 l
- **Controller:** HC 5500
- **TurboFiller:** 25 l – high filling capacity, easy to operate
- **Liquid system:** Remote-controlled EVC-motorised section valves with HARDI-MATIC flow regulation
- **Chassis:** High tensile steel chassis
- **PRO booms:** Strong, simple and steady (12, 15 & 18 m)
- **HYS booms:** Flexible, light and compact (12, 15 & 18 m)
- **HYS AIR STREAM booms:** Air assistance for better drift control (12, 15 & 18 m)

Fast and safe filling

The HARDI TurboFiller is an innovative solution to swiftly add large quantities of plant protection products and even the most difficult-to-mix dry formulations.

Wide range of booms

The MASTER is available with a choice of hydraulic booms to meet all spraying requirements. It is the only lift-mounted sprayer available with an air-assistance system.

Compact design

The slim tank design and the compactly folded booms ensure optimal weight distribution and tractor stability during spraying and road transport.

Advanced spray control

AutoSectionControl (optional) opens and closes boom sections on the go, eliminating overlaps and skips, for higher efficiency and savings on inputs.

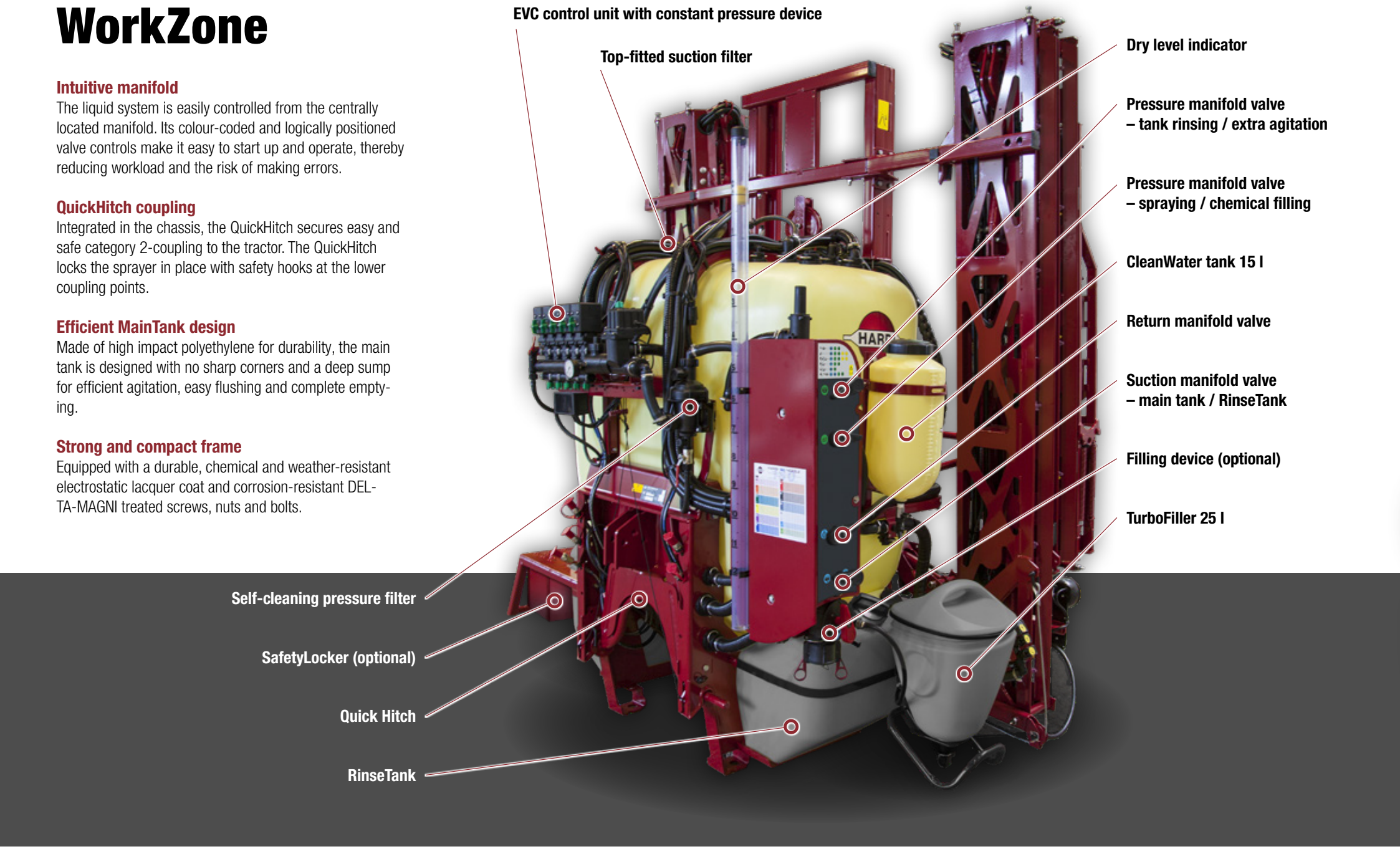
WorkZone

Intuitive manifold
The liquid system is easily controlled from the centrally located manifold. Its colour-coded and logically positioned valve controls make it easy to start up and operate, thereby reducing workload and the risk of making errors.

QuickHitch coupling
Integrated in the chassis, the QuickHitch secures easy and safe category 2-coupling to the tractor. The QuickHitch locks the sprayer in place with safety hooks at the lower coupling points.

Efficient MainTank design
Made of high impact polyethylene for durability, the main tank is designed with no sharp corners and a deep sump for efficient agitation, easy flushing and complete emptying.

Strong and compact frame
Equipped with a durable, chemical and weather-resistant electrostatic lacquer coat and corrosion-resistant DELTA-MAGNI treated screws, nuts and bolts.



Liquid system

TurboFiller

The HARDI TurboFiller offers safe, fast and residue-free mixing of large quantities of liquids and powders.

A central rinse nozzle and an external trigger lance make it easy to clean containers and the TurboFiller itself.

The TurboFiller is controlled by a multifunctional 3-valve unit conveniently located on its side.

Filters

A self-cleaning pressure filter minimises disruptive down-time caused by having to rinse filter or blocked nozzles. Any impurities will bypass the filter and be recirculated back to the tank.

A large and colour-coded suction filter fitted on top of the main tank allows for inspection without spilling spray liquid – even when the tank is full.

EVC control unit

Electric valve control (EVC) with in-built HARDI-MATIC pressure regulation ensures constant spray pressure and application rate regardless of RPM variations. It also means that individual boom sections can be shut off without changes in the application rate.

The EVC unit is remotely controlled via a Spray box in the cabin.

All vital EVC parts are sealed off from spray liquid.

RinseTank

Cleaning a sprayer is an important job, as sprayer contamination can cause yield losses. The MASTER RinseTank is integrated in the frame for efficient and safe cleaning of the sprayer in the field.

TurboDeflector
The hopper's shape and specially designed TurboDeflector plate at the bottom create a cyclonic effect for swift incorporation of even poorly soluble, dry formulations.

HARDI pump – the heart of the sprayer
The MASTER's liquid system is driven by the robust HARDI diaphragm pump. This is a pump that can run dry without damage.

The diaphragms separate the spray liquid from the vital pump parts to ensure unfailing performance – now and in the future.

The grease-lubricated pump is self-priming and easy to service.

PRO booms

Strong, simple and steady

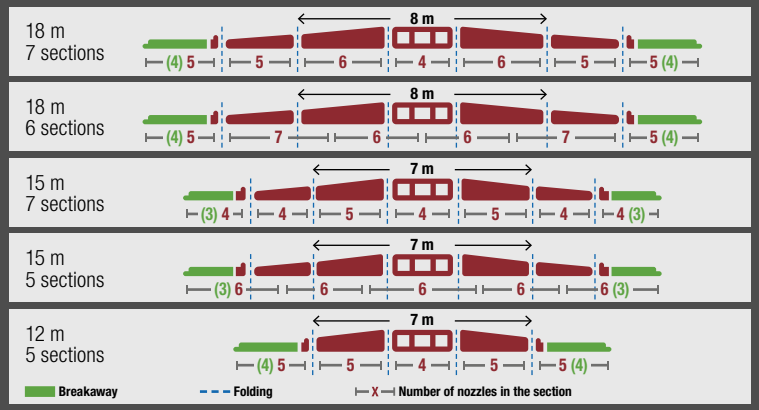
The PRO series will suit farmers looking for a regular but high-performing boom. An integrated lattice steel structure offers strength and rigidity for steady boom movement and application precision, even in challenging terrain. This hydraulic boom is easy to operate and requires little maintenance. Trapeze suspension increases lifespan and boom stability.

Regular hydraulics

The PRO boom is available in two models – a standard VHY model driven by tractor hydraulics and an upgraded VHZ model operated by electro-hydraulics, directly controlled via a compact panel in the tractor cabin.

The VHY boom offers boom lift, fold and optional slant, to which the VHZ model adds several extra functions such as folding of a single boom arm or sections as well as tilting of either boom arm.

The VHZ hydraulic control box



Protected boom components

All MASTER booms come with TRIPLET SNAP-FIT nozzle holders, spray lines and hoses well protected within the boom design.

Flexible boom height

Long boom lifts with a fast-responding cylinder and a hydraulic damper allow for boom working heights of 225 cm.

HYS booms

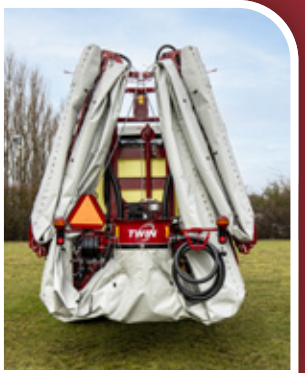
Flexible, light and compact

The HYS series is for farmers seeking boom adaptability. With fast, on-the-go fold of boom, arm or outer sections, this hydraulic boom with trapeze suspension will please farmers with irregular or challenging fields, paddocks, terrains or obstacles. It is a light but robust boom, which is easy to operate and requires little maintenance.

All models offer folding

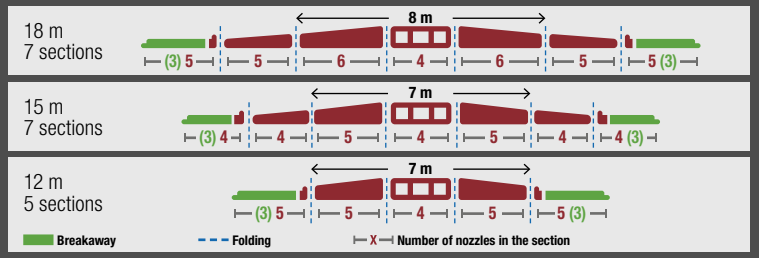
The HYS boom is available in two versions – a standard HYS version driven by tractor hydraulics and an upgraded HYSZ version operated by electro-hydraulics, controlled directly from the tractor cabin using a compact panel.

Both models offer boom lift, flexible fold/tilt and optional slant.



Easy movement

Both series offer vertically folded booms, which transform the MASTER into a nimble and compact sprayer with fully folded booms fitting within the width of the sprayer chassis.



HYS AIR STREAM

Drift control

Weather dictates most everything a farmer does. Wind in particular can force a farmer to interrupt or postpone spraying due to drift.

The HYS AIR STREAM boom uses air streams to direct the spray to the target, reducing drift and increasing crop penetration and coverage. Less drift means more spraying days, higher application speeds and fewer filling stops. It also allows farmers to address pests and diseases as they appear rather than having to wait for calmer spraying days.

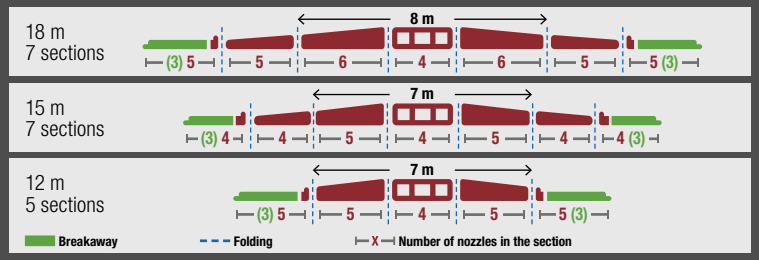
All in all,this will give the farmer higher spray capacity, real savings on water and plant protection products and a better environmental footprint.

Control drift with air

The HYS AIR STREAM boom is fitted with a blower unit and an inflatable air bag running the length of the boom. The air exits the bag through openings along its underside, creating forward-angled air streams, which hit the spray before it reaches the crop. The air distribution along the bag is very even, creating a curtain-like airflow that focuses the spray onto the crop.

The HYS AIR STREAM is available in two versions – a standard HYS driven by tractor hydraulics and an upgraded HYSZ operated by electro-hydraulics directly from the tractor cabin.

Both models offer boom lift, optional slant and flexible fold/tilt of the entire boom, one arm or outer sections – with or without air – for easy passage of obstacles in the field.



FrontTank

Larger capacity

The HARDI FrontTank will increase your spray capacity without jeopardising the tractor's weight distribution, balance and manoeuvrability – especially suitable for hilly terrain or smaller fields.

The FrontTank can be used as a simple counterweight or to give you more flexibility in your spray jobs – either as extra water supply for larger spray jobs or as a second chemical tank independent from or combined with the main tank.

The optional 1200 l FrontTank is made of high impact polyethylene. It comes as a kit, complete with a category 2-linked frame and a 135 l RinseTank. The dry level indicator on top of the tank is easily visible from the cabin, and an optional Agitation Pump Kit enables continuous agitation and cleaning of the FrontTank.

Nurse tank

Water from the front tank can be sucked into the main tank and new plant protection products can be added to continue the spray job at hand without having to refill.

Chemical tank

The operator can choose – from the comfort of his seat – to use the spray solution from the main or the front tank, allowing him to carry either two different types of spray solutions or simply more of the same.

Technical data

Tank size (net/gross)	Width	Height	Length	Weight
1200 l (1260 l)	176 cm	84 cm	148 cm	152 kg

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

Controllers

To suit all budgets

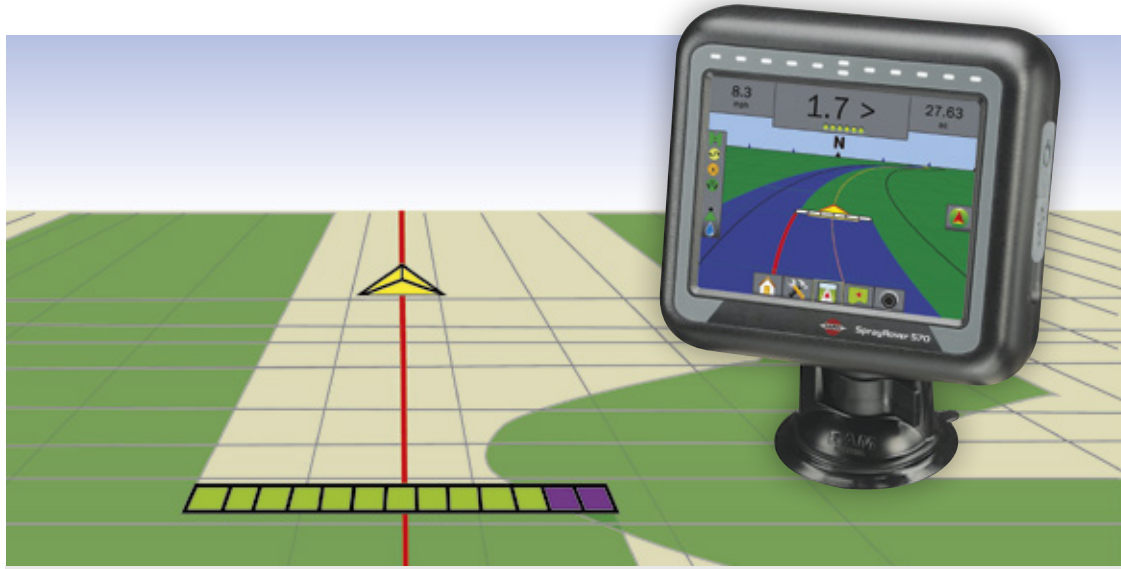
Standard-equipped with the HARDI Spray box for manual control of the Electric Valve Control (EVC) unit, the MASTER can be upgraded with the HC 5500 computer for automatic control. Add to this the HARDI SprayRover to obtain all the benefits of AutoSectionControl.

HC 5500 – Automatic control

The trusted HC 5500 computer literally puts you in the driver's seat. This electronic controller is an optional add-on to the Spray box to enhance the MASTER's liquid system. Powerful yet simple to operate, it offers precise application control – saving time and effort by providing the farmer with continuous updates on a spray job.

With its LogicMenu, bright display and 98 trip registers, the HC 5500 keeps track of all relevant spray parameters, sounding a warning at changes in spray pressure, speed or other parameters. Application rate can be easily adjusted on the go, especially valuable for the changing canopy conditions in orchards and vineyards.

Registers and other data can be transferred to external devices, and the HC 5500 is prepared for communication with precision tools such as guidance mapping and remote sensors.



AutoSectionControl

To save chemicals

The HARDI SprayRover 570 is a stand-alone AutoSectionControl device working in combination with the HC 5500 controller.

Guided by the included GPS antenna, the SprayRover automatically opens and closes boom sections on the go, eliminating overlaps or skips when spraying in wedges, at the headland or when driving around obstacles in the field.

The advantages are obvious in terms of reduced operator stress and fatigue. Higher efficiency also means better crops, less waste and money spent on water and plant protection products – to the benefit of the farmer as well as the environment.

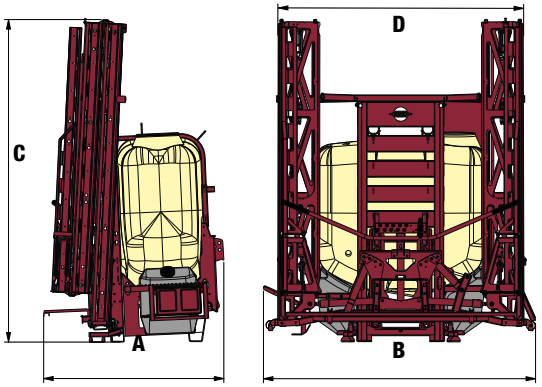
AutoSectionControl is fast becoming one of the most popular features on high-tech sprayers. Here we offer it as an add-on to prepare your MASTER for the future.

Technical specifications

Tank size (l net/gross)		1000 (1100)	1200 (1320)	1500 (1600)	1800 (1895)
Pump 364 (194 l/min)		•	•	•	•
Weight (kg)					
PRO 12-12.5 m		922	955	1077	1089
PRO 15 m		979	1012	1134	1146
PRO 18 m		1037	1070	1192	1204
HYS 12 m		773	806	928	940
HYS 15 m		882	915	1037	1049
HYS 18 m		926	959	1081	1093
TWIN STREAM 12 m		933	966		
TWIN STREAM 15 m		1022	1055		
Dimensions (cm)	**D**	**A × B × C**	**A × B × C**	**A × B × C**	**A × B × C**
PRO 12-12.5 m	225	153 × 253 × 271	166 × 253 × 271	183 × 253 × 271	183 × 253 × 271
PRO 15 m	225	153 × 253 × 271	166 × 253 × 271	183 × 253 × 271	183 × 253 × 271
PRO 18 m	225	153 × 253 × 296	166 × 253 × 296	183 × 253 × 298	183 × 253 × 298
HYS 12 m	255	155 × 255 × 271	166 × 255 × 271	183 × 255 × 271	183 × 255 × 271
HYS 15 m	261	155 × 261 × 271	166 × 261 × 271	183 × 261 × 271	183 × 261 × 271
HYS 18 m	265	155 × 265 × 315	166 × 265 × 315	183 × 265 × 315	183 × 265 × 315
TWIN STREAM 12 m	260	190 × 260 × 271	203 × 260 × 271		
TWIN STREAM 15 m	260	190 × 260 × 348	203 × 260 × 271		

Hydraulic outlets required

PRO	VHY: 1 single and 1 double VHZ: 1 double
HYS & HYS AIR STREAM	HYS: 3-4 double HYSZ: 1 double



A = Total length in cm

B = Maximum transport width in cm

C = Total height in cm

D = Transport width boom in cm

Optionals extras

SafetyLocker

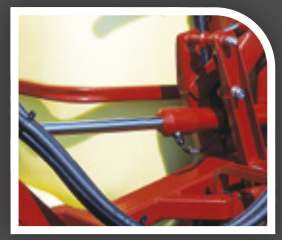
FastFiller

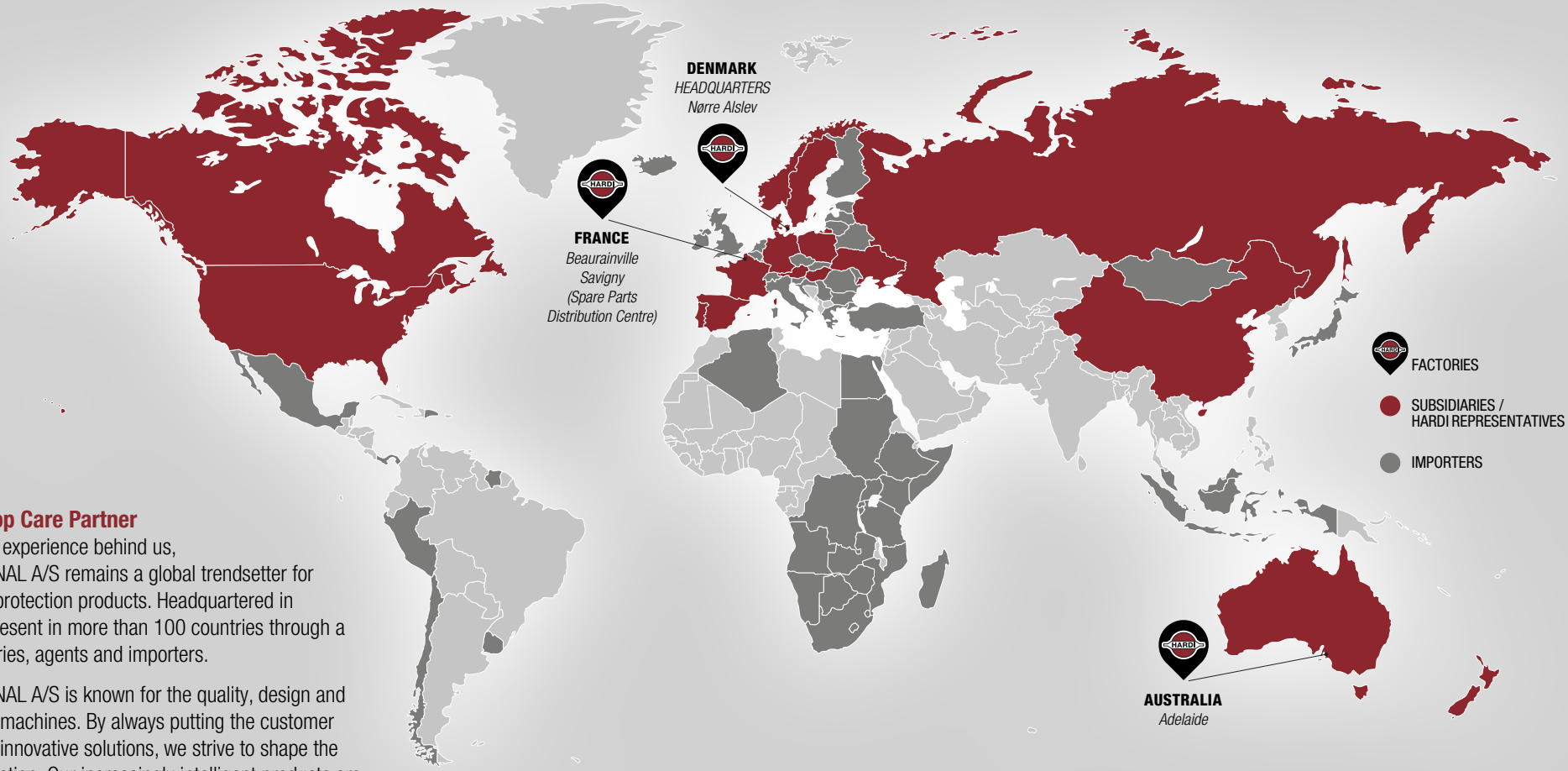
Traffic lights

External CleaningKit

Manouvering wheel kit

InLine Filters


Hydraulic boom slant



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.

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

Your Crop Care Partner

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