



CENTURAline

AEON

# THE FUTURE OF CROP CARE

Tanks 4200 / 5200 l Booms DELTA FORCE 24-39 m / TWIN FORCE 24-30 m



# THE FUTURE OF CROP CARE



## Presenting the latest in sprayer innovation

The all-new HARDI AEON CENTURAline is a high-tech sprayer guided by the principles of lean farming – to do more with less. We have used the latest technology and the newest automation solutions to allow farmers to improve productivity while reducing waste. The AEON CENTURAline sets a new benchmark for increasing food production in the face of growing environmental and climatic concerns.

Our starting point is always the farmer. The AEON CENTURAline is designed with user-friendliness and safety in mind. It is built to

last, but without compromising on design. It is a dazzling machine with a sleek and dynamic outline that conceals a newly developed chassis and a unique tank design for maximum stability.

The AEON CENTURAline offers perfect tracking, full suspension and a fully remote-operated spraying system. Combine this with incredibly fast fluid regulation, pressurised boom circulation and an exceptional boom management system, and the result is outstand-

ing boom stability, spraying precision and drift control – which translate into real savings for the farmer.

In the quest to put the right dose in the right place at the right time, we are driven by data, and the AEON CENTURAline offers cutting-edge connectivity for field mapping and remote diagnostics. With an AEON CENTURAline you are prepared for the future!



# MAXIMUM STABILITY

## Excellent tank design for perfect weight distribution

With the AEON CENTURAline, we have outdone ourselves in the search for maximum driving stability.

We have set out to refine the shape of the tanks with an objective to prevent sloshing liquid from disturbing the machine's balance while on the move. The result is a main tank with a wedge-shaped front. The novel design also guarantees complete tank emptying, even in hilly terrain.

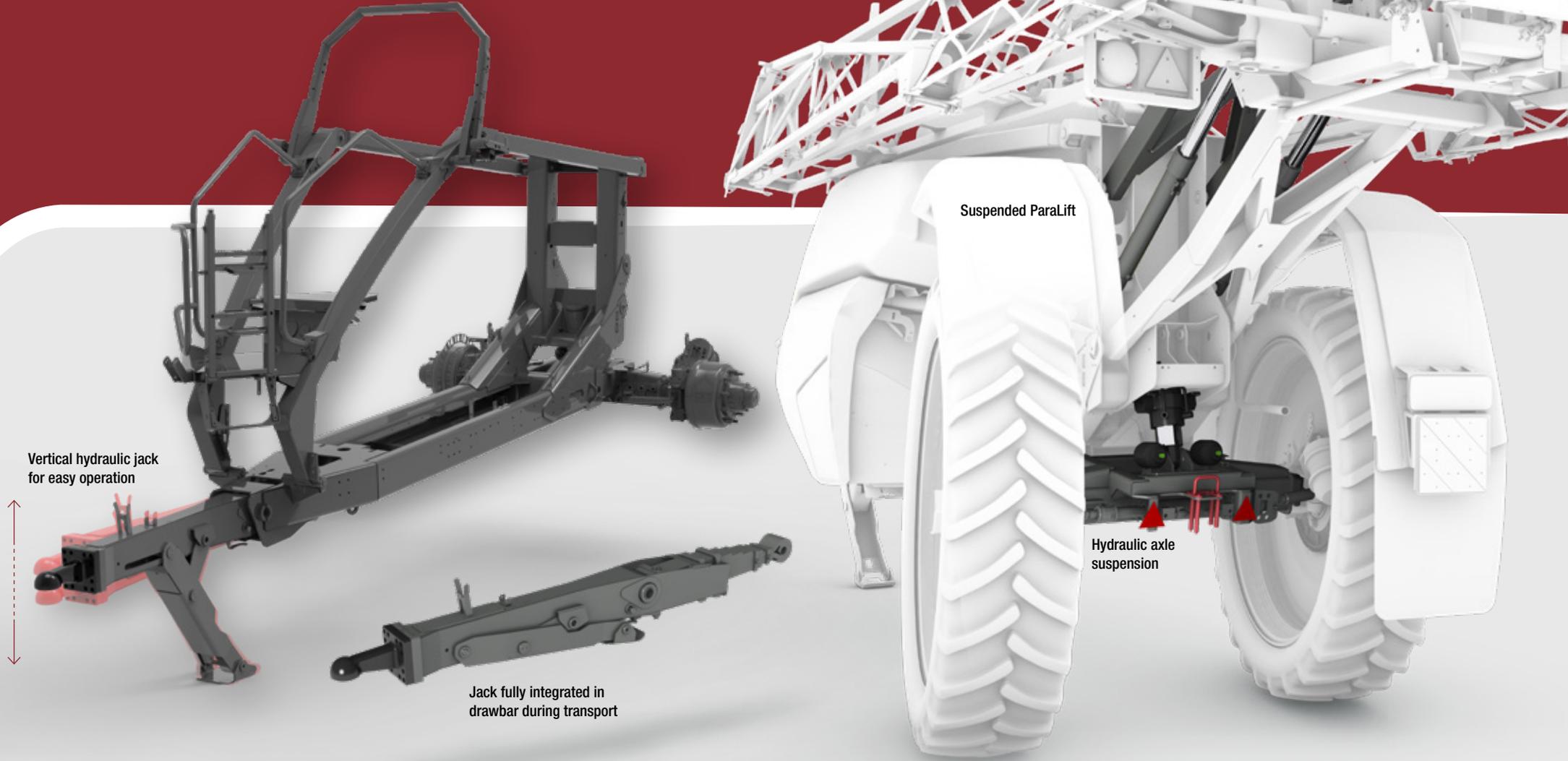
Perfect weight distribution is achieved with dual RinseTanks fitted on both sides of the sprayer towards its front to keep weight on

the drawbar. By transferring weight to the tractor, better traction is achieved towards the end of spraying.

Add to this the sprayer's excellent width-to-length ratio, and longer booms will never be a problem. The AEON CENTURAline offers fantastic boom stability, even at high speed.

With its perfectly placed low centre of gravity and strong chassis, the AEON CENTURAline will stand every test of durability.





## Designed to last

### Full suspension

Sprayers often operate in rough terrains and conditions – and the AEON CENTURAline is the epitome of toughness. It is standard supplied with full suspension for protection of all mechanical components and for incomparable operator comfort and safety, even at high speed. A completely new addition is hydraulic suspension of the axle centre to ensure steady boom movements.

### Drawbar leaf-spring suspension

- Minimal transfer of trailer movements to the tractor
- Strong design for loads of up to 4 tonnes
- Easy coupling with patented, vertical hydraulic jack to lift drawbar (fully integrated in drawbar during transport)
- Bolted K80 coupling

### Hydraulic axle suspension

- Cutting-edge suspension for full absorption of movements during transport and fieldwork
- Integrated frame and axle design for reduction and deflection of obstacle impact
- A single, strong cylinder secures perfect suspension, also on slopes
- Reliable and easy to service

### Suspended ParaLift

- Protection of the boom during transport and fieldwork
- Push-type cylinder position for perfect damping
- Consistent damping regardless of boom height
- AutoTerrain boom management optimises height at all times

# FARMER FOCUS

## Your working companion for all conditions

The AEON CENTURAline has been developed with the operator in mind. No detail has been left to chance in the search to optimise user-friendliness and operator safety. With its sleek design, smooth surfaces and covers to protect all vital parts, the AEON CENTURAline is your working companion for all conditions.

Both the TechZone and the WorkZone have protective covers that swing upwards to provide the operator with an illuminated, covered space for work in all kinds of weather.

CENTURAline 



## The TechZone – easy to control and service

The TechZone, on the right side of the sprayer, gives easy access to the isolated spray circuit, its large-dimension filters and the second pump.

### FlexCapacity pump

This extra pump boosts the combined flow capacity to 450 l/min, allowing for high application rates without impairing agitation. Similar to the main pump, it is a HARDI trademark diaphragm pump – robust and easy to service.

### Large-dimension filters

- The HARDI EasyClean filter is a high-capacity suction filter.
- The HARDI CycloneFilter is a unique, self-cleaning pressure filter, providing high efficiency without limiting flow. Combined with standard 22 mm stainless steel boom lines, it ensures optimum spray distribution at high application speeds or volumes.



FluidBox 8000



## The WorkZone – Intuitive operation

The WorkZone on the left hand side of the sprayer provides the operator with safe control of all sprayer functions – filling, mixing, agitation and spraying.

- Comfortable, large and secure WorkZone
- FluidBox 8000 groups main sprayer functions on one screen
- TurboFiller with integrated work table
- Waterproof 40-litre SafetyLocker

### FluidBox 8000

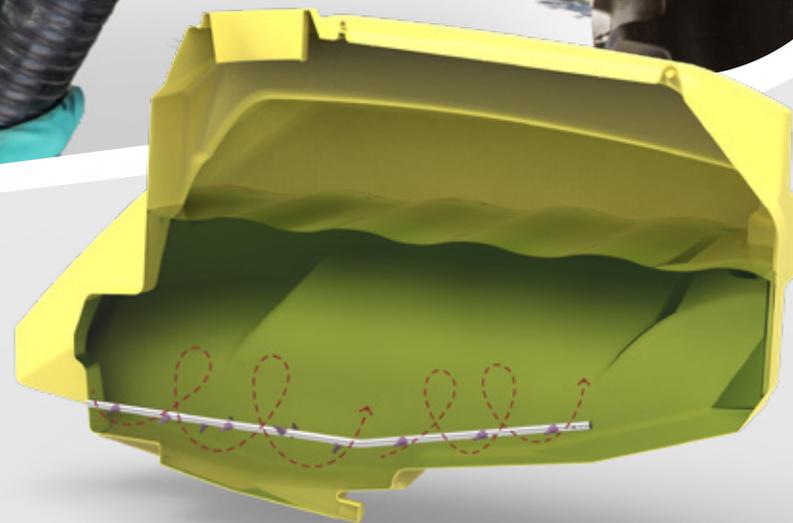
The intelligent FluidBox 8000 gives quick and direct access to common operations on one screen, including AutoFill, AutoAgitation and AutoWash.

- Intuitive colour interface
- Simplified, integrated calculator for sprayer preparation
- Main ON/OFF and emergency stop for all functions
- Nozzle test
- Calculates pesticide and water volume

# AUTOMATION FOR EASY OPERATION



Agitation nozzles are positioned to eliminate blind spots in the tank. The design has proven extremely efficient for both liquids and powders



## **AutoFill – Fast and accurate filling**

Set the volume, connect the hose – leave the rest to AutoFill, allowing the operator to carry out other tasks simultaneously.

- No overfilling – AutoFill stops at programmed volume
- Choose between maximum content or volume added
- Start/stop control at the FluidBox in the WorkZone
- Agitation is reduced automatically for maximum fill effect

## **AutoAgitation – Agitation at its best**

Fully automatic agitation for minimal filling time.

- Ensures even agitation as the tank empties
- Maximum agitation without foaming
- Minimal tank residues upon completion of spray job
- Automatic readouts of tank contents on terminal
- Manual override available through the FluidBox

## **AutoWash – Easy, accurate and safe cleaning**

Reduces residues to best in class – using only 400 litres of rinsing water.

- Operated from the tractor cabin
- No contamination of operator and tractor cabin
- No pesticide cross-contamination
- Choose one of three rinse programme – the rest is automatic
- In-field washing using multiple rinse operations
- Five rotating rinse nozzles in main tank for a thorough wash



### **TurboFiller – Fast and efficient mixing**

The shape of the hopper and its special TurboDeflector at the bottom create a cyclone effect to incorporate even the most difficult-to-mix compounds.

- Rapid filling and transfer into main tank
- High mixing capacity for powders and liquids
- 35 l capacity with stainless steel contents indicator
- Hopper with integrated table at work height
- Built-in rinsing system – 2 rinse nozzles and 1 external lance

# CROP CARE

## ComfortTrack wheel steering

Equipped with ComfortTrack wheel steering, the AEON CENTURAline will always track the tractor's rear wheels, even on tight turns, eliminating excess crop damage. The sprayer's compact design allows for a large steering angle of 27°. The combination of ComfortTrack and full suspension secures a small turning radius of only 6.3 m along with perfect boom position, also when turning on the headland.

- Large steering angle
- Automatic or manual operation
- Effective regardless of tractor speed
- Reverse gear with automatic re-centering
- Steering possible with boom in transport position

ComfortTrack turns the wheels, not the axle, and the long mudguards follow the wheels, keeping the nozzles clean in dry and wet conditions.

The AEON CENTURAline allows for large-diameter wheels with big footprints for better load distribution and less soil compaction. With 520/85R46 tyres, the axle clearance is 81 cm.



- **Mudguards follow the wheels to keep nozzles clean in wet conditions**
- **Large wheel diameter increases footprint and protects soil**

# INSTANT SPRAY CONTROL



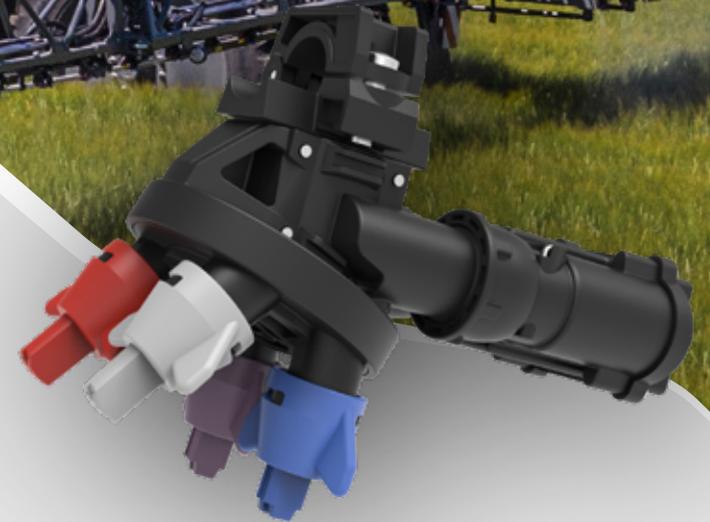
## Pressurised boom circulation

The AEON CENTURA line is standard equipped with PrimeFlow, a pressure-fed boom fluid system that 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.

### PrimeFlow

- 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 PENTALET holders for five nozzles



## AutoSelect Duo – higher flexibility

Increase work rates with automatic nozzle change on the go in response to changing field and weather conditions – all operated from the cabin.

- Three combinations of two sets of nozzles
- Applicable for speed variations of e.g. 8-15 km/h depending on nozzle type and pressure
- Change application rate at constant speed and pressure
- Maintain optimal droplet size
- Particularly useful at the headland or other slowdown zones

# ULTRA PRECISE SPRAYING

The AEON CENTURAline offers a fully remote-operated spraying system. Combine this with our incredibly fast DynamicFluid4 regulation valve, pressurised boom circulation and one of the best boom management systems, and you are guaranteed outstanding spraying precision.

The compact, remote-controlled fluid system is placed close to the boom. Coupled with HARDI's trusted diaphragm pumps and the EasyClean filtration system, it ensures optimum flow regardless of pressure.

As a result, the AEON CENTURAline offers less residual liquid as well as fast and easy cleaning.

The AEON CENTURAline saves time, money and the environment from unwanted soil and water contamination.



## AutoNozzleControl – Maximum precision

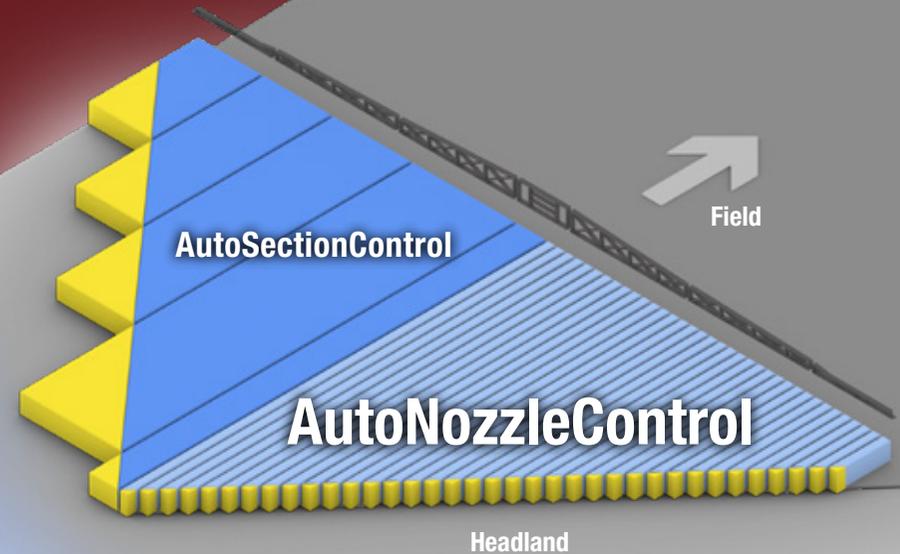
Obtain full control of your spray job with our automated single nozzle on/off feature – AutoNozzleControl. In combination with the instant spray control offered by our PrimeFlow system, AutoNozzleControl gives you ultra precise spraying and faster driving speed with minimal overlapping.

### AutoNozzleControl

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

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
- AutoSectionControl
- Double-sprayed area



More info:  
[www.hardi-aeon.com](http://www.hardi-aeon.com)



# DELTA FORCE – A BIG BOOM FOR BIG JOBS

## Flexibility, productivity and performance

**The DELTA FORCE is HARDI's newest family of conventional booms. It is a functional boom designed with future farming requirements in mind**

### **Wide in field – compact on the road**

The DELTA FORCE is a large boom of 24 to 39 m with a unique three-dimensional design and features meant for perfect boom control at high speed. HARDI's boom-folding system allows the operator to spray at different widths – with or without folding the last section. Despite its width, the DELTA FORCE is compact in transport and storage. It folds into an elegant 2.55 m.

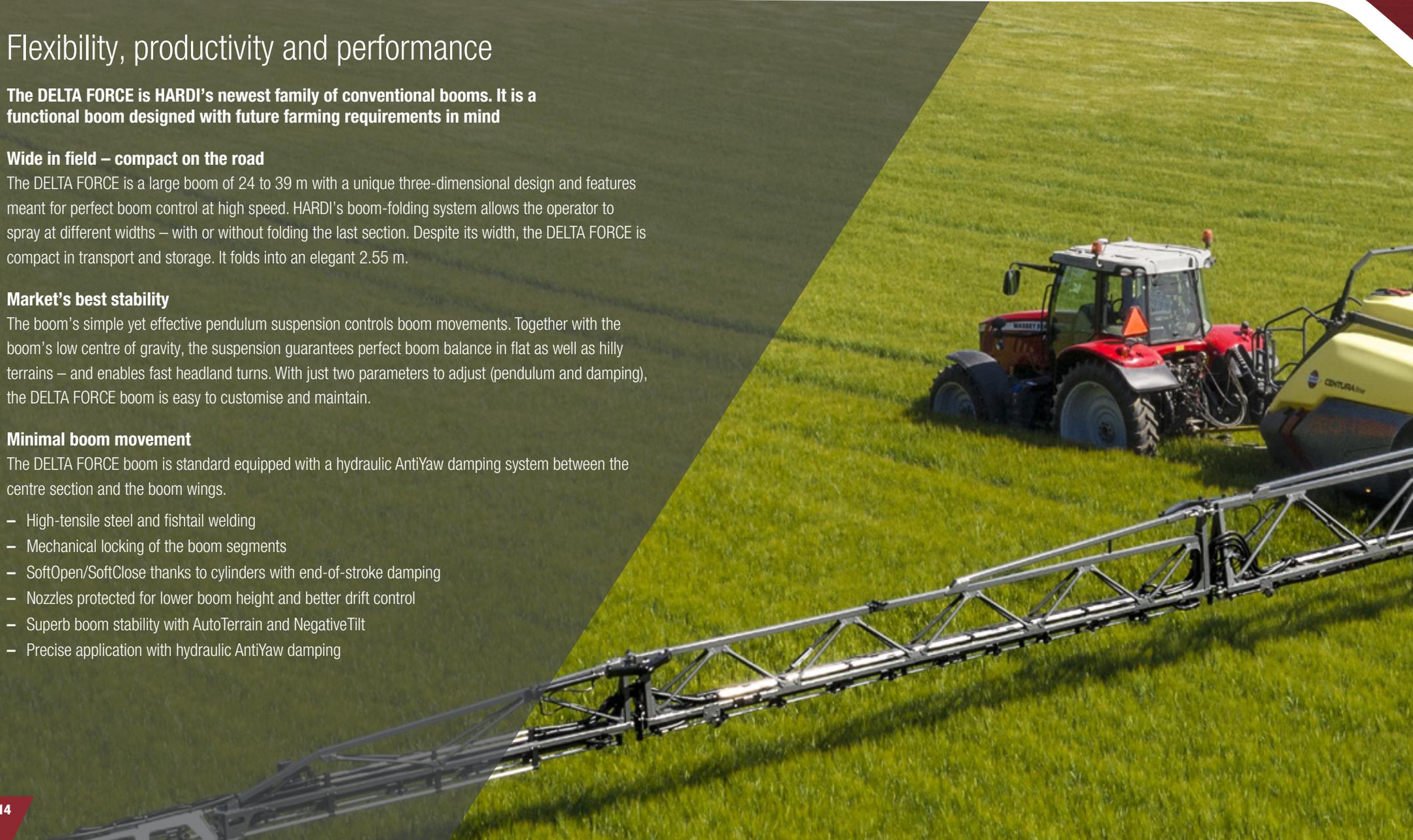
### **Market's best stability**

The boom's simple yet effective pendulum suspension controls boom movements. Together with the boom's low centre of gravity, the suspension guarantees perfect boom balance in flat as well as hilly terrains – and enables fast headland turns. With just two parameters to adjust (pendulum and damping), the DELTA FORCE boom is easy to customise and maintain.

### **Minimal boom movement**

The DELTA FORCE boom is standard equipped with a hydraulic AntiYaw damping system between the centre section and the boom wings.

- High-tensile steel and fishtail welding
- Mechanical locking of the boom segments
- SoftOpen/SoftClose thanks to cylinders with end-of-stroke damping
- Nozzles protected for lower boom height and better drift control
- Superb boom stability with AutoTerrain and NegativeTilt
- Precise application with hydraulic AntiYaw damping





A stop-and-lock system minimises slack between the boom sections, which are folded and unfolded smoothly with SoftOpen/SoftClose



The unrivalled AutoTerrain boom management system uses advanced sensors to pre-empt boom movements



**HARDI DELTA FORCE is available in:**

**3-fold:** 39/27/15 m, 36/27/15 m, 36/24/13 m, 33/24/13 m, 32/24/13 m, 30/24/13 m, 30/21/12 m, 28/21/12 m, 27/21/12 m

**2-fold:** 30/15 m, 28/14 m, 27/14 m, 24/12 m



More info:  
[www.hardi-aeon.com](http://www.hardi-aeon.com)



24-39 m



AutoTerrain



NegativeTilt



AntiYaw

# TWIN FORCE – A BOOM FOR ULTIMATE CAPACITY

Save time, money and environmental impact

The TWIN FORCE boom employs the world's best system for spray control. Using an adjustable curtain of air to entrain and direct the spray, TWIN FORCE can reduce drift by an astounding 80%. The result is close to no loss of plant protection products or contamination of adjacent areas.

Air-assisted spraying also guarantees better spray penetration and coverage than conventional applications. All this translates into real savings for the farmer of at least 50% on water usage and up to 30% on plant protection products.

TWIN FORCE gets the job done faster. Efficient drift control means more spraying days – up from 31 to 76 days in one study – as well as higher application speeds and fewer filling stops. The result is higher sprayer productivity. In fact, TWIN FORCE will increase your spray capacity by up to 100%.



More info:  
[www.hardi-aeon.com](http://www.hardi-aeon.com)

**HARDI TWIN FORCE is available in:**

**2-fold:** 24/12 m, 27/14 m, 28/14 m, 30/15 m



24-30 m



AutoTerrain



NegativeTilt



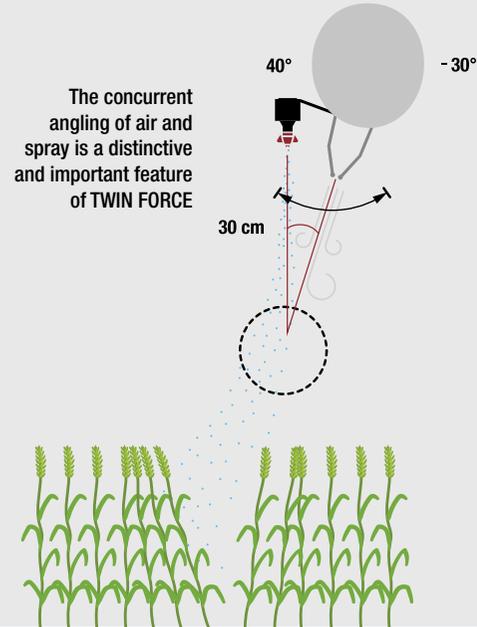
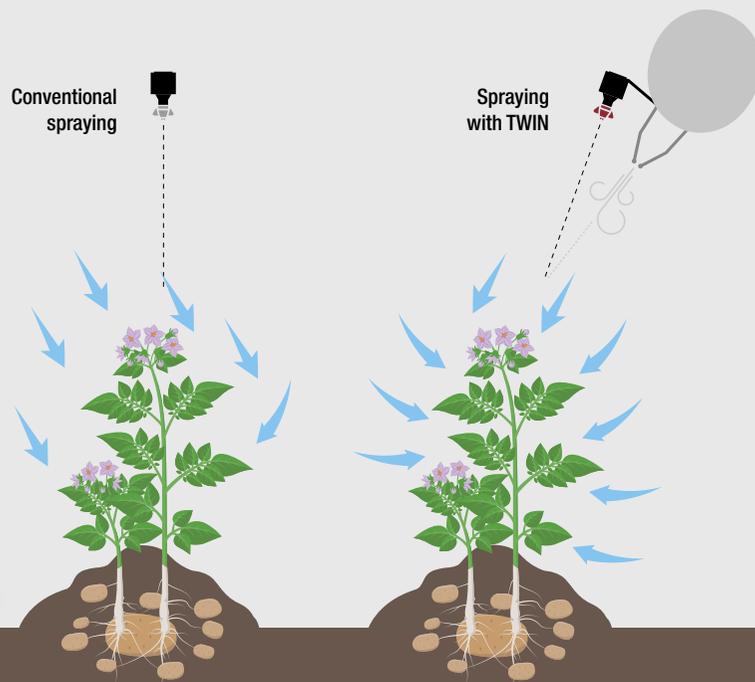
AntiYaw





- ✓ **Increase spray capacity** by at least **100%**
- ✓ **Reduce drift** by up to **80%**
- ✓ **Save plant protection products** by up to **30%**
- ✓ **Save water** by at least **50%**
- ✓ Improve crop **penetration** and **coverage**
- ✓ Improve **spray economy**
- ✓ Faster **spray speeds**
- ✓ Optimal **field timing**
- ✓ **30+ years'** experience

# THE TWIN CONCEPT



## Better than competitors

TWIN FORCE gives the operator more options for spray control than other air-assisted sprayers. By adjusting the air curtain's speed and angle, from no air to full air, in effect producing two sprayers in one (hence the name – TWIN), the operator can guide all droplets, irrespective of size, to the target.

Two powerful blower units provide air to the left and right boom sides. Each blower can be stepless adjusted to a maximum output of 2,000 m<sup>3</sup>/h per metre of boom and a maximum air speed of 35 m/sec.



## TWIN FORCE offers the market's best return on your investment – on both your bank account and your environmental account

### High impact – high capacity

Weather dictates most everything a farmer does, and spraying is no exception. Wind in particular can force a farmer to interrupt or postpone spraying due to drift. With efficient drift control, this is virtually a thing of the past.

Not only does air-assisted spraying prevent small droplets from drifting by blowing them downwards. It also opens the crop to their penetration. The air curtain parts and rustles the crop to expose all surfaces to the spray, and the droplets' extra momentum created by the air propels them into the crop.

As a result, TWIN FORCE improves crop penetration, distribution and coverage over conventional applications, even in dense crops.

### Proven and tested

The outstanding performance of TWIN FORCE has been confirmed by numerous case stories from around the world along with field trials and studies.

One independent, scientific study from the Research Centre Flakkebjerg/Aarhus University, Denmark, demonstrated that the spray application quality of a HARDI TWIN sprayer with a 24 m boom was unaffected by high wind at driving speeds of 8 to 12 km/h.

The researchers concluded that TWIN gives a more uniform deposition and significantly lower drift than conventional applications, especially in windy conditions. The study confirmed that TWIN can reduce spray drift by up to 80% – translating into a reduction in use of chemical products of up to 30%.



Download test results:  
[www.hardi-twin.com](http://www.hardi-twin.com)

# OUTSTANDING BOOM STABILITY

**AutoTerrain is a fully automatic boom control system that regulates height, slant, tilt and yaw for superb boom stability**

This unrivalled boom management system distinguishes itself from others by preventing rather than correcting unintended boom movements. Using ultrasonic sensors on the boom wings and roll sensors at the centre, it monitors and corrects the boom's movements before the boom is disturbed.

The AutoTerrain system has been tested under rigorous field conditions, showing excellent performance when spraying with low boom heights at high driving speeds of more than 15 km/h. When turning on the headland, the system will counter the boom's natural pendulum tendency to dip on the inner side. The result is a level boom throughout the turn. AutoTerrain all but eliminates the risk of the boom hitting the ground.



More info:  
[www.hardi-aeon.com](http://www.hardi-aeon.com)

AutoTerrain



## AutoTerrain

- Boom height
- Hydraulic slant
- Yaw counteracted by hydraulic accumulators
- Individual tilt of boom wings and negative tilt
- 5 ultrasonic sensors with integrated roll sensors
- Temperature-controlled proportional valves
- Standard on DELTA FORCE and TWIN FORCE booms

AntiYaw



NegativeTilt



# SmartCom – PREPARED FOR THE FUTURE

The brain of the AEON CENTURAline is our intelligent SmartCom – an electronic control unit that gives you responsive and accurate liquid regulation, thereby allowing faster spray speeds with higher volume rates. The unit's fast processor also gives you ultimate steering precision.

## Minimum downtime

The SmartCom provides quick and easy diagnostics with the HARDI ServiceTool. Utilising a SmartLink to connect to the SmartCom, our service staff can update the sprayer, diagnose errors and add features directly through the ServiceTool.

## Cutting-edge connectivity

The AEON CENTURAline offers you a completely new level of integration. We have prepared the SmartCom for online connections with your favourite cloud solutions with a view to transfer fields maps and other data directly to and from your machine. The AEON CENTURAline also readies you for remote diagnostics, allowing us to get you up and running almost instantaneously.

## Always ISOBUS

The SmartCom is, of course, fully ISOBUS-compatible for easy plug-and-play connection to tractors and controllers across brands and models. The operator can use intelligent features such as AutoNozzleControl and ComfortTrack steering directly from his or her own ISOBUS terminal, as long as it is supported. To ease complex sprayer operations, the proven HARDI Grip and Setbox are standard equipment.

## SmartCom

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



# HC 9700 – STATE-OF-THE-ART TERMINAL

The HC 9700 terminal integrates all important information on one screen to give you a complete overview of a spray job. The 12.1" multicolour HD touch screen allows for 2D and 3D as well as split screen viewing.

## Easy data transfer

Fitted with USB ports and WiFi adapter, the HC 9700 allows for easy data exchange with the objective to simplify application reporting and record keeping. Data can be transferred to most farm management software.

## Work from your phone or tablet

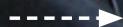
Use your mobile device or tablet to perform calibration, diagnostics, tank refilling and many other sprayer activities. The XTEND technology uses WiFi to extend the user interface to any iOS or Android device.

## Ready for field maps

The HC 9700 terminal offers the possibility to import/export parcel maps in ISOXML format. Hereafter, you can use AutoSectionControl to shut off boom sections automatically in accordance with the map – applying the right dose to the right place at the right time. Avoiding excessive spraying reduces expenses and greens your business.

## HC 9700

- High application precision
- Less usage of chemicals
- No overlapping areas



# TECHNICAL SPECIFICATIONS

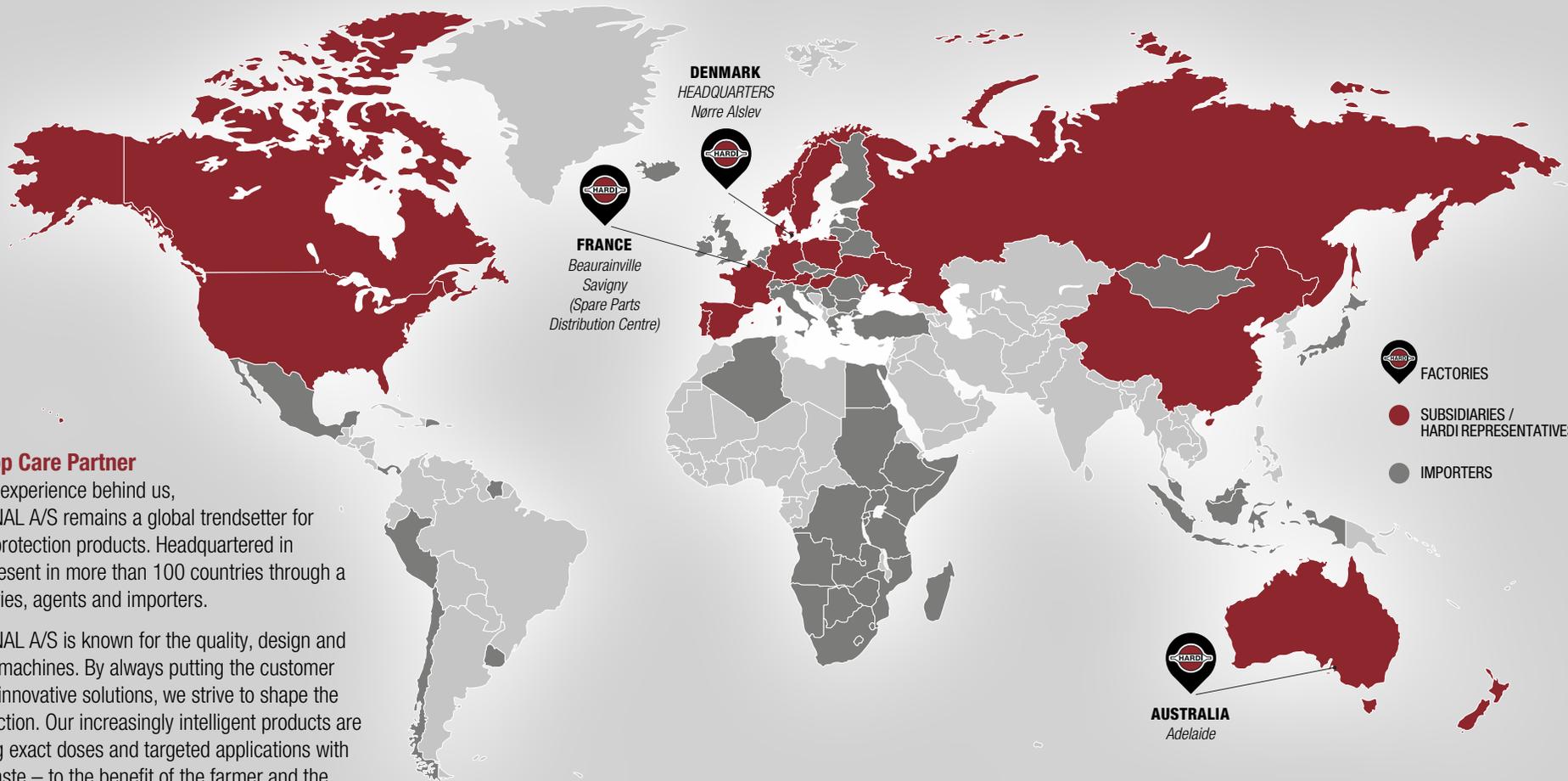
Tanks **4200 / 5200 l** Booms **DELTA FORCE 24-39 m / TWIN FORCE 24-30 m**

## AEON CENTURAline

Booms	DELTA FORCE 24-39 m	TWIN FORCE 24-30 m
Tank, nominal volume	4200 / 5200 l	4200 / 5200 l
Pump type - l/min	464-280 / 464H-334	464-280 / 464H-334
RinseTank (l)	560	560
Clean water tank (l)	40	40
Height (m) * <b>A</b>	3.70	3.80
Total length (m) <b>B</b>	8.35	8.35
Length draw to axle, (m) <b>C</b>	5.5	5.5
Track width (m) <b>D</b>	1.70-2.30	1.70-2.30
Transport width (m) * <b>E</b>	2.55	3.00
Ground clearance axle (m) * <b>F</b>	0.78	0.76
Turning radius at 200 cm track width (m)	6.3	6.3
Working height (m)	0.43-2.73	0.43-2.73
Total weight empty (kg)	6100	6400
Total weight full (kg)	11860	12160
Drawbar load empty (kg)	980	1000
Drawbar load full (kg)	2950	3000
ComfortTrack wheel steering	Standard	Standard
Hydraulic axle suspension	Standard	Standard
Drawbar leaf-spring suspension	Standard	Standard

\* 5200 – 36 m DELTA FORCE – 520/85 R42 / \* 5200 – 30 m TWIN FORCE – 380/90 R46





### 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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