



COMMANDER
6500, 8500 & 10000



COMMANDER

One of the most awarded sprayers continues to evolve, and leads the way with capacity and productivity boosting features.

ActivAir option is a rapid nozzle on/off feature that instantaneously open and close the non-drip nozzles during spraying, by utilising an on board air pressure system.

DynamicFluid4 (DF4) leads the way in precision and immediate response application rate control.

TurboFiller delivers fast chemical mixing and transfer. VACnMIX hopper option provides direct chemical suction and transfer.

High capacity multi-point venturi agitation ensures effective uniform tank mixing.

The HC 5500 DF4, HC 8600 and HC 9600 spray controllers offer the highest level of performance and application precision.

Combined with 6500, 8500 & 10000 litres tank sizes and boom widths from 24m to 48.5m, COMMANDER takes your productivity to new levels.



Tank capacity:	6500, 8500 or 10000L
Pump:	464 diaphragm 334 l/m
Fluid system:	DynamicFluid4
Controller:	HC 5500 & optional HC 8600 & HC 9600
Chem Transfer:	VACnMIX hopper or TurboFiller
Axle:	Adjustable 2.2 – 3m
Boom choice:	FORCE, B3 or TERRA FORCE



Hydraulic Suspension

The compact hydraulic axle suspension easily carries the load with proven reliability and performance. It is ideally suited to different load ratings, providing the sprayer with a low centre of gravity and enhanced boom stability.

Fluid System

The fully integrated main tank, rinse tank and chassis delivers a compact sprayer with a low centre of gravity and excellent crop clearance.

The fluid system from tank to nozzle has been developed to retain the lowest possible residual volume making it easier to rinse between fills.

One smart valve controls the suction source - either main or rinse tank - while the other valve controls pressure delivery to nozzles, tank rinse or TurboFiller.

The 464 pump revs are monitored by the DynamicFluid4 controller to determine the output volume and performance.

Perfect tank mixing and content distribution is achieved through multi-point venturi agitation nozzles, controlled by a throttle valve.

Each injector nozzle is a venturi agitator which outputs 4 times the input volume while submerged.



SafetyLocker

Ample storage space for personal safety clothing, hand cleaner and a few parts in the large SafetyLocker.

A 17 litre hand wash tank provides ample water for personal hygiene.



464 diaphragm run-dry pump

The fluid system is driven by a robust grease lubricated 464, 334 l/m HARDI diaphragm pump, with high capacity valves, hoses and filters to handle large volumes with minimum pressure loss. It can run dry without damage.

Hydramotor drive is standard

Safe, easy operation

To meet increasing demand for higher application rates and greater volumes, the COMMANDER has been equipped with a high capacity fluid system and fast rate control.

All the primary functions used when filling, spraying and cleaning are built into two logically placed colour-coded smart valves.

A venturi ejector creates a powerful vacuum for direct chemical suction and chemical transfer.

The TurboFiller with turbo deflector creates a vortex to thoroughly mix chemical into solution before they are transferred.

Optional VACnMIX hopper is ideal for direct chemical suction and batch measuring.

A fully integrated U-pin secured & O-ring sealed HARDI manifold fluid system is driven by a grease-lubricated HARDI 464 diaphragm pump delivering 334 l/m.

The fluid system utilises an EasyClean suction filter and CycloneFilter pressure filter to trap sedimentation.



EasyClean filter

EasyClean high capacity suction filter has a very large surface area.

A vacuum gauge monitors the condition of the EasyClean suction filter, and indicates when the filter needs to be cleaned.



CycloneFilter

A unique self-cleaning pressure filter uses a high-speed cyclone action to keep the filter elements clear of contamination.

In addition, a boost function allows the filter to be flushed when needed.

Over centre clips retain the element in the cap when extracted.

Mixing, filling and transfer

The Integrated TurboFiller provides high capacity chemical mixing and transfer. It drops down into position and has a lid that can be used as a table top.

A TurboDeflector plate in the bottom of the induction bowl creates a powerful liquid rotation for mixing powders and granules into suspension before they are transferred.

The TurboFiller mixing action is generated from the centre to the sides and is not easily blocked by dumping dry product directly onto the TurboDeflector as can happen in other filling systems.

All TurboFiller controls are in easy reach. A venturi vacuum is created to provide high volume chemical suction & transfer.

A hand gun is used for general rinsing and cleaning while a rotating drum rinse nozzle is used to rinse out containers.

The TurboFiller is integrated in the design of the sprayer maintaining good lines and appearance of the COMMANDER.

VACnMIX hopper option for direct chemical suction and measuring is available.



Directional filtered FastFill option

The operator connects a transfer pump to the sprayer mounted FastFill valve and coupling to fill the Main Tank and Rinse Tank.

The in-line filter ensures only clean water is transferred.



Vacuum VACnMIX option

The vortex mixing action permits safe, easy transfer of crop protection products. The VACnMIX is also equipped with vacuum attachment for closed chemical transfer.

Application control

The optional HC 9600 touchscreen spray controller (*right*) provides the highest level of performance and application precision.

Everything is at your finger tip. The HC 9600 information and application control terminal is used in conjunction with the multifunction grip and HC 6400 control console.

The grip combines vital spraying and hydraulic control functions. Spray on/off, sections, boom height and wing tilt functions are managed from the grip.

Secondary functions are managed from the HC 6400 SetBox console.

No need to switch between screen views as the HC 9600 displays all the spray functions from the 12.1" touchscreen.

The HC 9600 provides guidance mapping, auto steer, auto section, application rate, tank content, boom height, dual boom, direct injection, spray records, field notes, variable rates application and more where fitted.



HC 8600 controller optional

Providing the same functionality as the HC 9600 but on a smaller 8.4" touchscreen.



HC 6400 SetBox

Secondary control functions are easily operated and managed from the HC 6400 SetBox console. Nozzle pressure, auto rate, foam marker and hydraulic boom fold functions are easily controlled here.

HC 5500 DF4

The HC 5500 is an industry leading, easy to use controller with a renowned reputation for connectivity, reliability and performance.

Now with the new SprayBox III the HC 5500 can be used with HARDI's DynamicFluid4 pressure based fluid system which offers incredibly fast and accurate rate control.

HC 5500 provides function and rate control in an ergonomic user friendly design which works seamlessly with DynamicFluid4

The operator is informed of the operation status and warned when vital parameters like pressure, speed and rate are incorrect.

Advanced farming systems can be connected like site-specific application maps for variable rate application and auto section control. Remote sensors and 12 volt printer can also be connected.

The LogicMenu is easy to navigate using arrow keys and pre-set keys offer shortcuts to display vital information.

On-the-go change to the application rate can be displayed as a percentage of the prescribed rate and alarms can be programmed for minimum and maximum operating pressure.

4 lines of information are displayed simultaneously and the back-lit screen is easy-to-read day or night.



DynamicFluid4

A powerful pre-emptive pressure-based application rate control that holds the target rate through changing spraying speeds, during cornering and while auto boom section control systems are active at the same time.



No Jobcom

The HC 5500 for DF4 does not use the on-board JobCom.

Instead the SprayBox III switch box replaces the on-board JobCom and utilises a smaller junction box, located under the right access panel.

Boom range

COMMANDER can be fitted with a range of aluminium and steel boom sizes, each ideally suited for specific spraying tasks.

Model Boom	Centre	Size	COMMANDER 6500	COMMANDER 8500	COMMANDER 10000	Partial fold width
Aluminium Booms						
B3 Major	PendEze	30*	x	x	x	30/23/12
B3 Major	PendEze	32*	x	x	x	32/23/12
B3 Major	PendEze	33*	x	x	x	33/24/12
B3 Major	PendEze	36	x	x	x	36/27/15
B3 Maxi	AutoTerrain	36.5	x	x	x	36.5/27.5/17.5
B3 Maxi	AutoTerrain	38.5	x	x	x	38.5/29.5/17.5
B3 Maxi	AutoTerrain	40.5	x	x	x	40.5/31.5/17.5
B3 Maxi	AutoTerrain	42.5	x	x	x	42.5/31.5/17.5
B3 Mega	AutoTerrain	48.5		x	x	48.5/34.5/19.5
Steel Booms						
SPB/C EAGLE	Trapeze	24	x	x		
SPB/C EAGLE	Trapeze	28	x	x		
SPB/C EAGLE	Trapeze	30	x	x		
TWIN FORCE	Trapeze	24.5	x	x		
TWIN FORCE	Trapeze	28.5	x	x		
TWIN FORCE	Trapeze	30.5	x	x		
FORCE	Trapeze	30	x	x	x	30/13
FORCE	Trapeze	32	x	x	x	32/15
FORCE	Trapeze	33	x	x	x	33/15
FORCE	Trapeze	36	x	x	x	36/15
TERRAFORCE	AutoTerrain	36	x	x	x	36/31/17
TERRAFORCE	AutoTerrain	38*	x	x	x	38/33/17
TERRAFORCE	AutoTerrain	40*	x	x	x	40/33/17
TERRAFORCE	AutoTerrain	42	x	x	x	42/33/17

* Special order



Yaw Dampening Cylinder

Yaw forces are absorbed through the POMMIER patented nitrogen-dampened plunge cylinder. This significantly reduces stress on the boom and trailer, delivering greater control over the sprayer and its performance.



Nitrogen Accumulation

Nitrogen accumulators absorb the Yaw movement energy from the boom under braking, acceleration and steering.

ActivAir

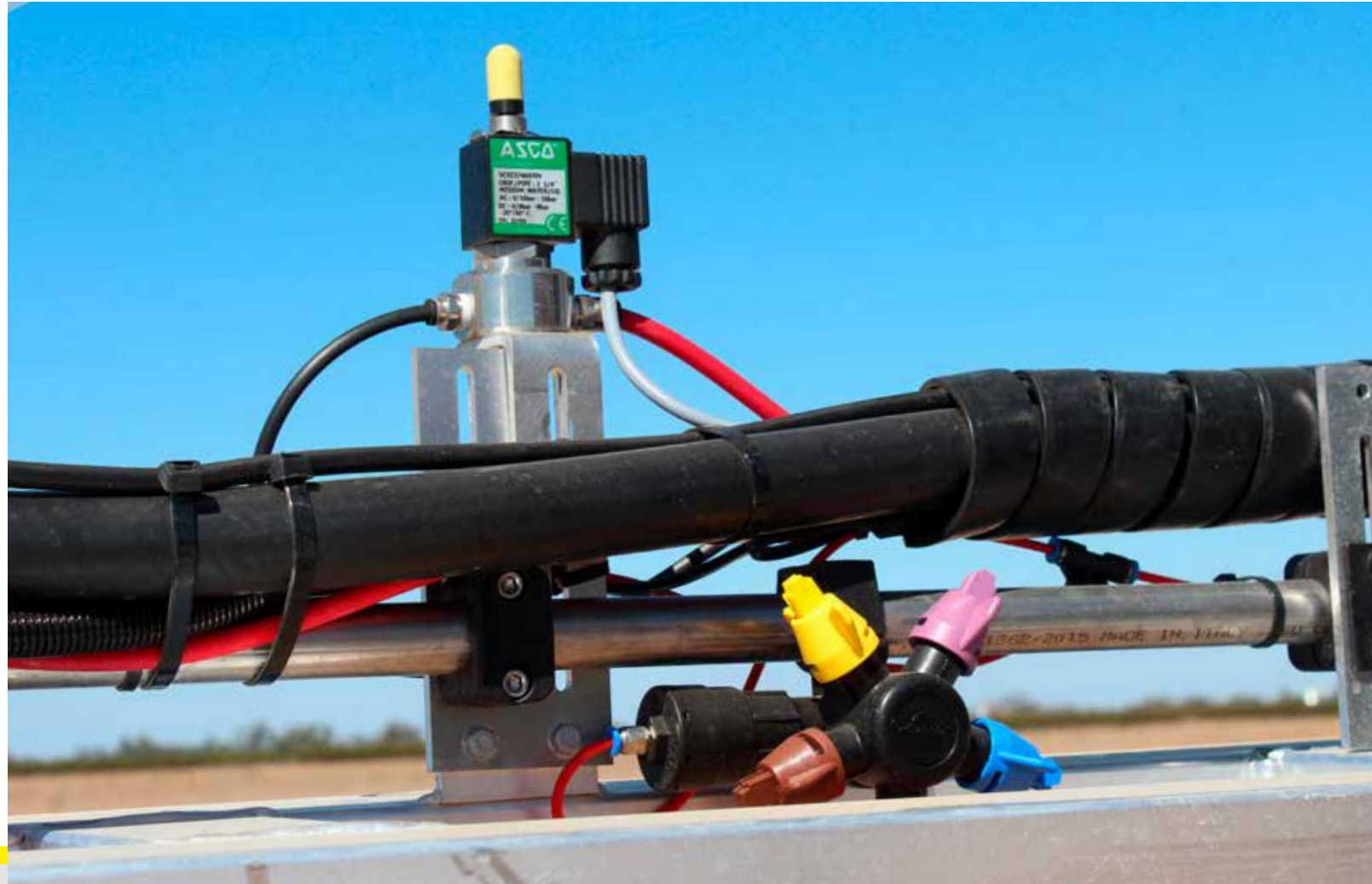
ActivAir is a rapid nozzle on/off control system, that instantaneously open and close the non-drip nozzles during spraying.

Air pressure is reticulated along the boom through 8mm tubing to electrically activate solenoid valves and then through 4mm tubing to each non-drip valve.

ActivAir's rapid nozzle control is fast and accurate, making it ideal for AutoSection control systems. The spray lines are divided into six sections as standard and can be optioned to a maximum of 13 sections, to ensure minimal overspray when AutoSectionControl is in operation.

When a solenoid is activated to turn the nozzles on, air pressure opens the non-drip valves and the nozzles start spraying. When the solenoid is deactivated to turn the nozzles off, the non-drip valves are held closed under spring tension.

When the nozzles are off, the fluid system continuously recirculates the spray mix through the boom tubes at high volume to ensure the boom is primed before spraying starts.



On- board air pressure system

An air compressor and air tank are located under the right access panel provides the air pressure for the rapid nozzle on/off system.



Recirculation

When the tank is recharged the fluid system automatically switches to recirculation, which means the boom is charged so you can go spraying as soon as the boom is unfolded.

The recirculation system also allows you to run clean water through the boom, back to the main tank at the end of the day rather than to spray rinse onto the ground.

FORCE boom

FORCE booms are available from 30m to 36m widths have inertia based boom suspension, yaw-dampening control and are fully adjustable to suit any field condition.

A dynamically linked coil spring boom centre ensures smooth ride and excellent stability for the boom during spraying.

The tri-fold construction is a three-dimensional lattice design for added strength.

Hydraulic wing tilt provides the flexibility to spray over mounds, rock piles and fences.

A hydraulic damping cylinder for stability control can be adjusted to suit the operating condition.

Single snap fit nozzles are standard with TRIPLET nozzles holders optional.

Complete nozzle protection is a standard feature of the FORCE boom.



FORCE wing tilt

Individual wing tilt is a standard feature used for lifting the boom wing tip on headlands and over obstacles.



FORCE boom folded

For road transport and storage the tri-fold construction provides cab clearance and space-saving advantages.

B3 Maxi and B3 Mega width without weight

When it comes to wide boom innovation and design POMMIER is the market leader.

Their accumulated 30 years' experience provides real benefits for farmers considering a lighter, stronger and wider boom option.

B3 Maxi 36.5 to 42.5m and Mega 48.5m booms with AutoTerrain centre are well proven in field performance and reliability. Their weight reduction benefits over steel cannot be underestimated.

B3 boom wings are half the weight of equivalent steel structures. Additionally when they are combined with the POMMIER patented yaw-dampening centre, there is a significant reduction in the transfer of load and inertia forces through the sprayer.



B3 performance

The B3 Maxi is a tri-fold boom available in 36.5, 38.5, 40.5, 42.5m and the B3 Mega in 48.5m.

Wing tilt with nitrogen accumulation and tri-directional breakaways are standard.

Aluminium's unique enduring properties guarantee long term performance and minimal maintenance. No need to paint.



B3 boom

Premium HARDI nozzles are protected by the boom structure, centre plumbed and spaced at 50cm for precise applications and positive results.

First and second outer wings have a mechanical self-lock with a hydraulic unlock. Steel is used in hinge areas, pins, locks, where adjustment is required.

Boom alignment is easily adjusted at the hinge points.

TERRA FORCE boom

TERRA FORCE is built strong utilising heavy-duty three-dimensional truss construction for high performance.

Available in sizes 36, 38, 40 and 42 m the TERRA FORCE truss boom design with the AutoTerrain centre meets the growing demand for bigger wider boom structures.

The patented nitrogen accumulated plunge cylinders in the end of the fold cylinders absorb the energy from the boom while spraying and cornering.

When the boom is open, the wing locks provide a positive locking mechanism ensuring the wing performs as one.

The TERRA FORCE boom is designed to reduce turbulence over and around the nozzle.

Optional BoomPrime and flush taps allows the boom to be primed with chemical before spraying is started, and flushed when spraying is finished.



Wider boom line fluid system

TERRA FORCE has 25mm fluid system which provides a 30% increase in capacity over other booms, which minimises pressure loss between sections.

Easy to flush and clean saddles with slotted internal spigot ensures boom tubes drain reducing residue.



Wide paralift

The boom is supported by a wide Paralift which enhances stability and is hydraulically dampened for smooth ride and performance.

Individual wing tilt is standard and they incorporate shock absorber elements to provide individual wing suspension.

AutoTerrain - height matters

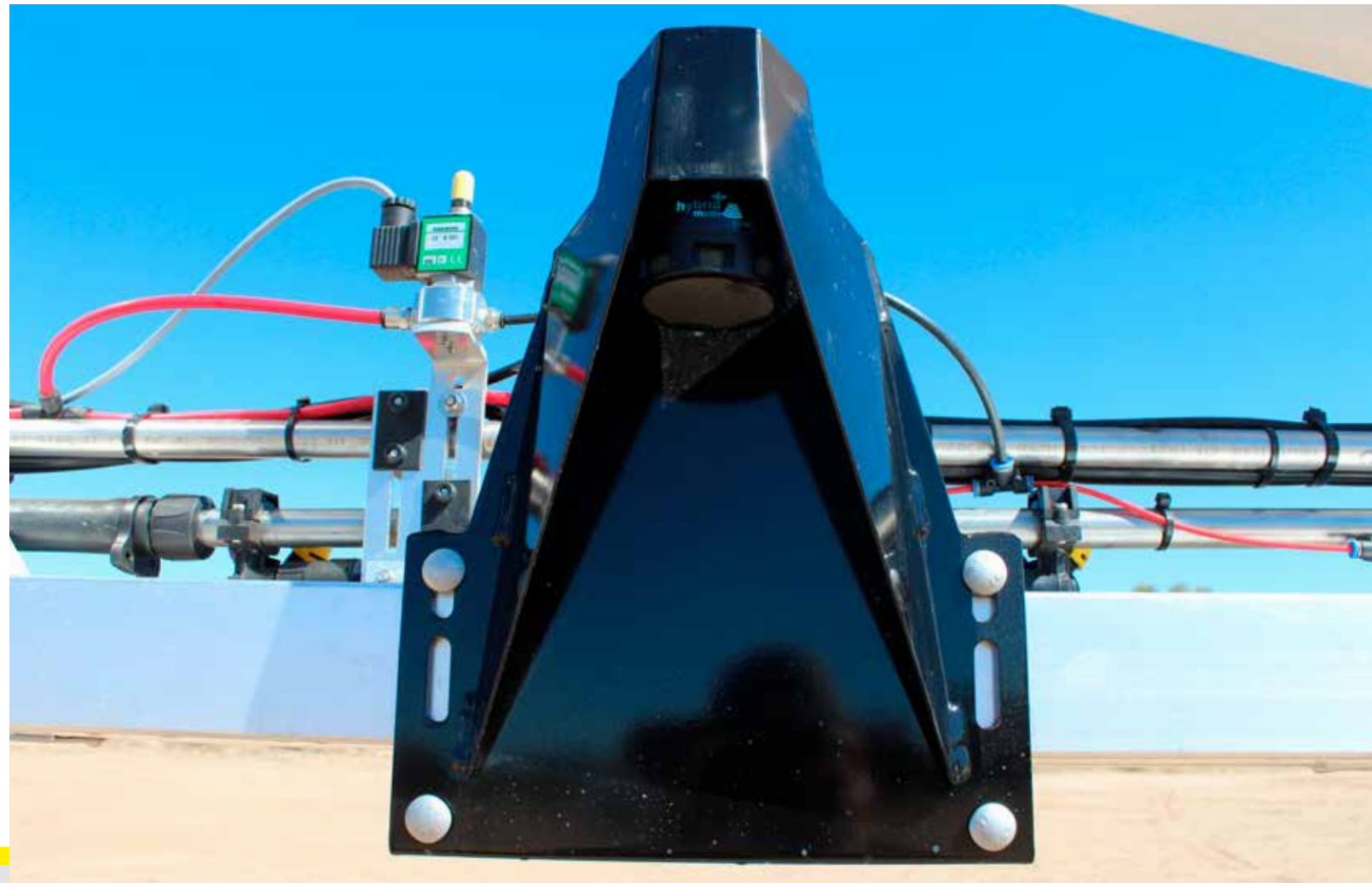
TERRAFORCE, B3 Maxi and B3 Mega with AutoTerrain sets new standards in wide boom performance.

AutoTerrain maintains a lower boom height and provide better drift control than any other height control system. It follows the ground like a magnet regardless of the terrain it travels across.

The pre-emptive stability and auto height control system deals with the cause of boom movement. It seamlessly monitors the roll through the centre and the height of the boom off the ground or crop.

When a change is detected AutoTerrain simultaneously corrects the boom's position relative to the ground contour by angling it through the centre pendulum.

No need for boom wheels. No need to be constantly on the wing tilts.



AutoTerrain helps to spray with greater safety, protecting the boom from ground strikes and preventing incorrect spray height. It allows an increase in productivity through reliable wide boom performance.

AutoTerrain benefits

- Better boom stability
- Constant and uniform boom height
- Lower boom height
- Better drift control
- Minimise risk of boom damage
- Reduced down time due to breakage
- Less dependence on operator control
- Cuts operator fatigue
- Greater productivity
- Less wear and tear



Roll and height sensors

AutoTerrain monitors the boom height 28 times per second and is only activated when the boom moves out of its ideal position. The roll sensor knows in advance that the booms position has changed.

AutoTerrain simultaneously corrects the boom's height and relationship to the ground contour by tilting the wings and angling the centre through the pendulum

Spray your way

COMMANDER ActivAir can be customised to suit your needs and preferences.

- Choose from aluminium 36 to 48.5 metres or steel booms from 36 to 42.5 metres.
- Opt for a six sensor AutoTerrain for an additional ultrasonic sensor on each boom wing, for more undulating and aggressive conditions.
- Reduce nozzle contamination by using boom line filters for additional filtrations.
- Steer clear of the fence on your first lap around the paddock with a solenoid end nozzle.
- Use Banjo FastFill, a hydraulically driven three inch high capacity centrifugal pump for self-filling at water points around the farm.
- Add the ultimate work lighting kits with under boom, forward & rear facing lights.
- Simplify maintenance with a centrally located remote greasing point



Central greasing point

Reduce maintenance times by greasing all points from a single bank of nopples conveniently located at the rear of the COMMANDER.



Put COMMANDER ActivAir to the test!

There's nothing like driving it for yourself to see how the COMMANDER can boost your productivity. Register for one of our exclusive Ride&Drive events across the country and see firsthand how our HARDI spraying technologies and strong, stable wide booms will change the way you spray.

To register your interest, visit:
HARDI.com.au
or call
1300 042 734



Ride&Drive



Standard features:

- 0.795m under axle clearance
- 2.2 to 3.0m track width
- 4 stage filtration - suction, pressur, inline and nozzle
- 17L clean water tank
- 464 540rpm 6-diaphragm pump 334 l/min
- 730L rinse tank & rinse nozzles
- 6500, 8500 or 10000L capacity
- AutoTerrain height control on TerraForce, B3 Maxi and B3 Mega
- Boom choice of FORCE, B3 or TERRA FORCE
- Boom line filters
- DynamicFluid4 fluid system
- Electronic TankGauge
- HC 6500 rate controller
- Hydraulic axle suspension
- Mudguards & mud flaps
- Multi point venturi agitation
- Over size sign tail lights
- Remote greasing
- SafetyLocker with dual compartments
- SmartValve fluid system
- Solenoid end nozzles
- Triplet nozzles
- TurboFiller chemical transfer hopper

Options available:

- 30m hose reel & 60S gun
- AutoHeight boom height control on FORCE and B3 Major
- ActivAir
- Banjo FastFill
- Boom prime
- Directional filtered FastFill
- HC 8600 & HC 9600 with AutoSection
- ISOBUS
- Storage locker
- Under boom lighting
- VACnMIX chemical transfer hopper
- Venturi Ejector FastFill

Optional Intelligent features:

- PrimeFlow
- AutoWash
- AutoFill
- AutoAgitation
- HeadlandAssist

Technical specifications:

Tank	6500L	8500L	10000L
Pumps, type, l/min	464 540rpm, 6-diaphragm, 334 l/min		
Boom FORCE	30, 32, 33, 36m		
Boom B3 Aluminium	32.5, 36.5, 38.5, 40.5, 42.5 48.5m		
Boom TERRA FORCE	36, 38, 40, 42m		
Control type	HC 5500 isobus standard, HC 8600 & HC 9600 optional		
Suspension	Hydraulic with nitrogen accumulator		
Track adjustment	2.2 to 3m		
Weight empty drawbar (kg)	1565	1134	1145
Weight empty axle (kg)	5534	6226	6255
Weight empty total (kg)	6899	7360	7400
Total length (m) TerraForce	A 8.35	8.85	8.85
Total transport height (m) TerraForce	B 3.65	3.65	3.65
Width with (m)TerraForce	C 3.5	3.5	3.5
Track width (m)	D 2.2 - 3	2.2 - 3	2.3 - 3
Length drawbar to axle (m)	E 5.5	6.05	6.05
Under axle clearance (m)	F .795	.795	.795
Rinse tank (L)	730		
Hand wash tank	17L		
ChemLocker option	100kg load rated		
Tyre standard	520/85 R42	520/85 R42	710/70 R42
Tyre options	520/85 R46	520/85 R46	620/70 R42
	620/70 R42	620/70 R42	620/70 R42
			650/70 R42



"FROM FARMERS, FOR FARMERS"

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