

# ALPHA



■ **Capacity, Coverage and Comfort**



# High capacity sprayers

**ALPHA is the latest generation of high performance self-propelled sprayers from the HARDI Group.**

**The overall layout of the machine is designed with the operator in mind to provide efficient operation of the day to day spraying tasks. HARDI ALPHA comes with a list of features and equipment larger than ever before.**

## Practical and efficient SmartValve fluid system

All fluid function valves are easily accessible and grouped together. The use of multi-way valves (SmartValve) simplifies the control of the major spraying functions.

## Drivability

4 wheel drive and selectable 4 wheel steer are standard on the ALPHA. High ground clearance makes the ALPHA the right choice for a wide variety of crops. ALPHA is adaptable to a number of uses from row crop to broadacre agriculture with a choice of axle widths from 2 - 3.4 metres and low ground compaction characteristics. An excellent turning circle makes the ALPHA the right choice for row cropping applications.

## New polyethylene tank

The shape of the 4100 litre tank is integrated into the design of the whole sprayer. The tank has been designed to allow excellent visibility behind the sprayer. The rinse tank is also integrated into the design of the main tank.

## High capacity

Two coil springs on the front axle and one coil spring at the rear axle, ensures excellent driving performance without operator fatigue.

## New generation engines

A new series 210 hp 2012 series DEUTZ engine is utilised in the ALPHA. This engine possesses high torque combined with excellent power and fuel consumption and meets the latest emission standards.

## Extra storage

A safety locker of 180 litres allows storage of containers or various accessories used during the work. (Locker substituted if foam marker ordered)



ALPHA is standard with 4 wheel drive and selectable 4 wheel steer



210 hp Deutz engine



Active coil spring suspension



Smart Valve Fluid System



Storage locker

## TWIN FORCE boom

- **Boom width** (half fold) m:  
**18** (12), **20** (12), **21** (12),  
**24** (12), **27** (14), **28** (14), **30** (15)
- Air assisted boom with air angling
- Half folded spraying possibility
- Spring loaded break-away
- Individual tilt
- Mechanical anti-yaw device
- Patented self-leveling trapeze
- Lock between boom sections



ALPHA 4100 litre with 30 metre TWIN FORCE boom

### HARDI TWIN - Advanced technology from a sprayer specialist

HARDI TWIN - the safe way to savings  
Only HARDI TWIN enables high capacity without compromises of efficacy. With the HARDI TWIN it is possible to control small efficient droplets all the way to target.

TWIN FORCE advantages:

- Application at higher spraying speeds
- More »right time« spraying hours
- Lower application volume rates
- Remarkable drift reduction
- Economical plant protection

HARDI TWIN user survey results:

The spraying capacity of one TWIN FORCE is equivalent to two conventional sprayers. An average of 16 % pesticide reduction compared to conventional spraying techniques.

More information about the TWIN FORCE can be found in the HARDI TWIN booklet. A large number of research results are presented as well as recommendations of use. Find it on: [www.hardi.com.au](http://www.hardi.com.au)



Backward angling up to -30°



No angling



Forward angling up to +40°

## FORCE boom

- **Boom width** (half fold) m:  
**24** (12), **28** (14), **30** (12)  
**32** (14), **36** (14)
- Spring loaded break-away
- Individual tilt
- Mechanical anti-yaw device
- Self-leveling trapeze
- Half folded spraying possibility
- Three dimensional lattice construction



ALPHA 4100 with 36 metre FORCE boom

## OPTIONS



**CO-PILOT**  
GPS Field  
Guidance  
System



**BANJO**  
Hydraulic  
fast fill sys-  
tem



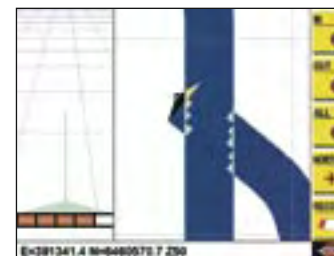
**CYCLONE**  
High perform-  
ance foam mark-  
ing system.



**GRANNI-POT**  
Chemical  
induction  
system.



**AutoSTEER**  
Automated  
steering  
package.



**Auto Section Control**  
Automated con-  
trol of spray  
functions to  
save chemical  
and reduce oper-  
ator fatigue

## Cabin with great comfort and excellent visibility



The modern cab has been developed for the operator's comfort and convenience. The driving position offers excellent accessibility, visibility, space and comfort.

The main controls are placed on the right hand side, grouped by function and integrated into the console. Access to the cab is made easy through a large sliding door, together with automatic folding and unfolding of the step.

### High level of equipment

As standard the ALPHA plus cab is fitted with active carbon filters, ventilation, heating, air conditioning, pneumatic seat, AM/FM radio, CD Player, front and rear working lights and storage facilities.

### Low noise level

Low cabin noise levels have been a key criteria in the new ALPHA cabin design. Insulation in the roof and floor prevents noise from entering the cab, ensuring a pleasant working environment.

### Visibility

The design and positioning of the cab give panoramic vision while spraying, and during road transport.

### Easy to use controls

The multifunction joystick, which controls the hydrostatic drive allows:

- Forward and reverse movements.
- Control of the primary spraying functions (main on/off and boom tilt)
- Control of boom raising and lowering



## Specifications

### Engine and Transmission

Engine 155 kW (210 hp)
Hydrostatic transmission
4 wheel drive
Selectable 4 wheel steering
40 kmh transmission with selectable brake
Poclaim dual displacement motors with hydraulic brakes

### Cab and Chassis

Cab c/w air conditioning and tinted windows
Heating and active carbon filters
Night working light kit
Multifunction joystick
Air suspended seat c/w arm rest and seat belt
Reverse warning buzzer
Front and rear coil suspension
Foot operated brake system
14.9 x 46 radial tyres (12.4 x 46 on 2 metre centres)
Mudguards with mud flaps
Crop Protection belly guard
180 litre storage locker (unless marker fitted)

### Booms

Eagle SPC boom 24, 28 and 30 m
Force FTZ boom 24,28,30,32 and 36 m
Twin Force boom 24, 28 and 30 m
Paralift c/w nitrogen accumulator and transport lock

### Fluid System

4100 litre polyethylene tank
410 litre rinse tank
15 litre clean water tank
Rinse and flush system
HARDI 463 diaphragm pump
Remote tank drain
SmartValve system
4 way filtration
EVC spray control
HARDI HC5500 spray computer
Nozzle bodies with non drip valves

### Measurements

Track Width 2 m (fixed), 2.25 m (fixed)		
2.65 - 3.20 m (mechanically adjustable / factory fit)		
Ground Clearance	14.9 x 46	12.4 x 46
	1.25 m	1.2m
Weight 7700 kg		
Height	4.00 m	
Width	Force Boom	3.50 m
	Twin Force Boom	3.50 m
	Eagle Boom	3.50 m

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

## HARDI Australia

HARDI is Australia's largest specialist spraying manufacturer. With over 18,000 square metres of facilities and branches in 5 states HARDI has a major commitment to servicing the Australian spraying market.

Our Adelaide based National Office incorporates major engineering, fabrication and assembly facilities and Australia's only customised test track to ensure the products we make are built for the demands of Australian farmers.



Production Facilities Adelaide



Adelaide



Brisbane



Melbourne



Perth



Sydney

