

## Technical specification

### Chassis

- Monobloc chassis protected by extra-high resistance polyester paint
- Demount legs
- Rapid coupling system

### Tanks

- High density polyethylene
- Main tank: 2500 L (650 USG) + 5% anti-overcapacity, float gauge
- Hand wash tank: 20 L (5,2 USG)
- Rinse tank: 220 L (57 USG)

### Fans

- Closed centrifugal impeller type with a built-in air distribution system
- Air intake at the top of the unit on the front
- Poly V belt drive
- Impeller rotation speed: 3700 to 4100 RPM
- Speedair: D 560mm (22,05 in), 16 fan blades including 8 boosters
- Supair: D 630mm (24,8 in), 20 fan blades including 10 boosters
- Power input: Speedair 25-30 CV, Supair 35-40 CV
- Speedair 24,7 HP-29,6 HP, Supair 34,5 HP-39,5 HP

### Filtration

- Filling: 8/10 mesh sieve
- Air intake: 6/10 mesh vannofilter
- Discharge: 6/10 mesh high pressure filter

### Pumps

- Spray pump: 2 piston diaphragm pump BP 60/20  
20 bar (280 psi) /60 L/min (15,6 USG/min) driven by a separate hydraulic motor
- Mixing pump: centrifugal pump 200 L/min (52 USG/min) with priming tank

### Régulation

- Pressure and speed regulation on the grape harvesting machine

### Distribution

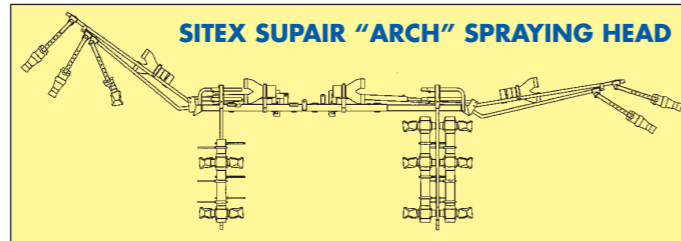
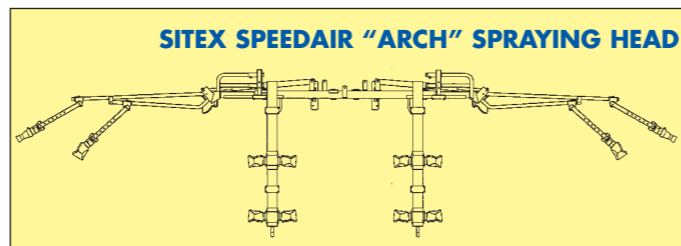
- Right-left and up-down electric gate valves (VEC) to control spraying, as per equipment provided
- 0-25 bar (0 to 362 psi) pressure gauge D 60 mm (2,36 in) with expanded scale from 0 to 6 bars (0 to 87 psi).

### Setting-up

- Berlogic
- Mixing hopper on option

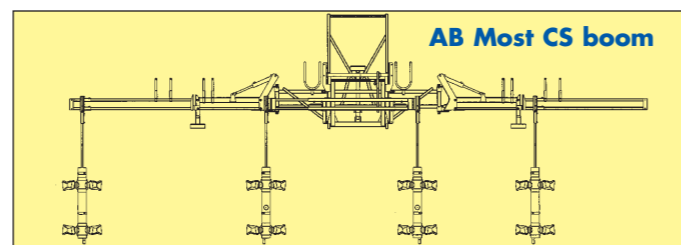
### In-Cab controls

- New Holland joystick: for controlling the main spraying parameters during work
- New Holland control box: for displaying and controlling pump and turbine rotation speeds
- Berthoud control box: for controlling boom functions and opening or closing spray sections



SITEX "ARCH" SPRAYING HEAD	SPEEDAIR		SUPAIR	
	Between rows (in metres - ft)	Rows sprayed	Between rows (in metres - ft)	Rows sprayed
VL 610 to 660	1,6 /2,5 5,25/8,20	4	2,0 /3,2 6,56/10,5	4

Overhead spraying  
Blanket spraying only (4 Airmist cannons + 8 Airmist sprays)  
Hydraulic hose support articulation  
Left or right hand disconnection  
Hydraulic leveller for outside cannons



AB Most CS	SPEEDAIR		SUPAIR	
	Between rows (in metres - ft)	Rows sprayed	Between rows (in metres - ft)	Rows sprayed
VL 610 to 660	1,6 /2,5 5,25/8,20	4	1,6 /2,5 5,25/8,20	4

Three complete rows sprayed from both sides and two other rows sprayed on one side only  
Total coverage or localised spraying (4 Airmist sprays per row)  
Manual spacing  
Hydraulic, folding, raising and angle adjustment. Left or right hand disconnection  
Hydraulic boom raising on the central frame with the possibility of raising independent of the central frame  
Central frame cushioned Nitrogen gas accumulator suspension  
ACS option (boom and spray functions programmed during manoeuvring)

AB Most telescopic	SPEEDAIR		SUPAIR	
	Between rows (in metres - ft)	Rows sprayed	Between rows (in metres - ft)	Rows sprayed
VL 610 to 660	1,6 /3,5 5,25/11,5	2	2,0 /3,0 6,56/9,84	4

One or three complete rows sprayed from both sides and two other rows sprayed on one side only  
Total coverage or localised spraying (4 Airmist sprays per row)  
Hydraulic adjustable spacing  
Hydraulic, folding, raising and angle adjustment.  
Left or right-hand disconnection for raising or angle adjustment  
Nitrogen gas accumulator suspension  
Electrohydraulic control system

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S.A.S. au capital de 1.155.000 € / R.C.S. Villefranche B 515 720 829 / APE 293-D

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# BERTHOUD<sup>®</sup>

## SPEEDAIR / SUPAIR VL 2500

Spraying unit - capacity 2500 litres  
for New Holland Braud VL grape harvesting machine



**An extra-compact chassis tank unit that can be fitted in under 10 minutes**

- Co-designed with New Holland Braud for a perfect match between the carrier vehicle, the tank and chassis unit and the spraying equipment.
- Extra-compact tank and chassis unit with a built-in hand wash and rinse tanks, mixing hopper, etc
- **With its rapid coupling system the unit can be fitted onto, or removed from, a grape harvester in less than 10 minutes**

**Fully equipped for maximum comfort and safety**

- Berlogic set-up panel
- Mixing hopper and clothing compartment
- Rinse and hand wash tanks
- Mixing pump

**A complete range of equipment**

- Sitex "arch" spraying head
- AB Most CS boom
- AB Most telescopic boom

**Unparalleled driving conditions**

- Spray control on the New Holland joystick
- Pump and fan control on the New Holland control box



# SPEEDAIR/SUPAIR VL 2500



## Mixing hopper (Optional)

- With hydraulic fold-away system
  - ▶ Easy to use
- Built-in can-washer and rinsing circuit
  - ▶ For efficient utilisation of products
- Controls centralised on the Berlogic system
  - ▶ For easy setting-up



- Main tank**  
2500 lt (650 USG)
  - ▶ Maximum autonomy
- A single tank**
  - ▶ Can be totally drained
- Reversed L shape**
  - ▶ Extra-compact

- Hand wash tank**  
20 lt (5,2 USG)
  - ▶ In compliance with safety standards



## SPEEDAIR/SUPAIR centrifugal fans

- Closed type with radial outlets
  - ▶ High performance
  - ▶ Low noise level
- Poly V belt drive
  - ▶ For total reliability
- Clean-Air intake at the top of the unit on the front
  - ▶ No spray mixture or leaves can be re-drawn in



- BP 60/20 spray pump**  
60 l/mn - 20 bar  
15,6 USG/min - (280 psi)  
Driven by a separate hydraulic motor
  - ▶ - For easy setting-up



## Centrifugal mixing pump

- Flow-rate: 200 l/min (52 USG/min)
  - ▶ Optimal mixing
  - ▶ Efficient rinsing
- Priming tank
  - ▶ Automatic priming
- Optional filling system
  - ▶ External suction

- Berlogic**  
Centralised spraying controls
  - ▶ For easy setting-up

- Rinse tank**  
220 litres (57 USG)
  - ▶ in compliance with environmental standards
- Built-in clothing compartment**
  - ▶ For superior user comfort and safety



## Unparalleled driving conditions

A total mechanical, electrical and hydraulic match between the grape harvester and the **BERTHOUD** spray unit means that spraying operations can be controlled from the driving position on the harvester.

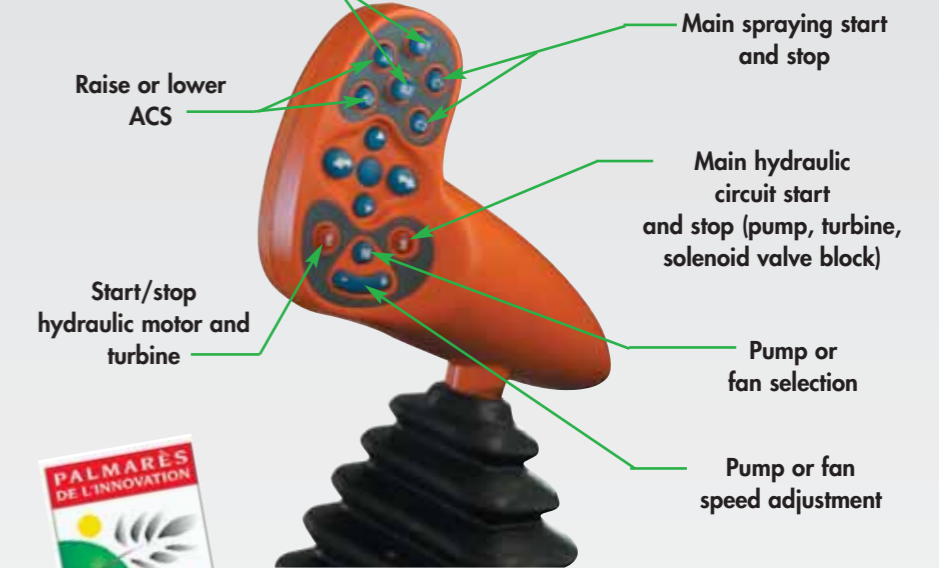


- ▶ All spray controls needed during working operations are centralised on the joystick.
- ▶ The rotation speed of the pump and the turbine are displayed and controlled from the control panel



The **BERTHOUD** control box centralises all the boom movement and spraying section opening/closing controls.

- Stop spraying and raise boom.
- Lower boom and start spraying



Raise or lower ACS

Start/stop hydraulic motor and turbine

Main spraying start and stop

Main hydraulic circuit start and stop (pump, turbine, solenoid valve block)

Pump or fan selection

Pump or fan speed adjustment



## Can be fitted in under ten minutes

Thanks to a special coupling device designed in collaboration with New Holland, the complete spraying unit can be put in position, or removed, by a single person in less than ten minutes – without needing any special tooling.