

# VANTAGE

2800L 3500L 4300L 5500L 6700L



**MACHINE  
OF THE YEAR 2017**

**/// DARK**  
BY BERTHOUD

**BERTHOUD®**  
*Forward together*

# Simplicity and good practices



## Mixing hopper: ergonomics combined with power

- Capacity: 35L
- Extended handle for opening and additional rinsing valve
- Rotary nozzle for rinsing containers
- Clear water supply via external suction or the rinsing tank to rinse the containers



## Pump sub-unit The DUALMATIC selector unit and the OMEGA pump are a great tandem!

### DUALMATIC

Specially designed and developed by BERTHOUD, the staging of the valves allows the length of the pipes to be reduced and limit the residual volumes at the end of spraying. Furthermore, by limiting the number of valves, this **makes the machine easier to use**. It is associated with the **BERLOGIC** panel that can identify the **17 functions** of the machine using text = **no risk of misinterpreting the functions**.



**The gauges**  
**Managing your residual volumes means measuring the volumes in your tank correctly**



**NIVELEC gauge** (as standard)  
**optimise your precision**

- Digital display of the spray mixture level in the tank, when spraying and in the cab
- Conservation of the tape gauge for direct reading

**NIVOMATIC gauge**  
**the solution to overflows!**



- Programming a filling volume that is stopped with a buzzer sound or stopping the filling
- Conservation of the tape gauge for direct reading



**MACHINE  
 OF THE YEAR 2017**

**Your sprayer at your fingertips**  
**with DUALELEC, the only fully motorised sprayer on the market**



**OMEGA pump**

Bi-turbine centrifugal pump developed by BERTHOUD combining flow rate and pressure

- 550 l/min at 3 bar
- 2 low and high pressure compartments
- Self-priming pump
- A spraying pressure of up to 8 bar

Fully electric version available for application, DUALELEC allows you to control all of the VANTAGE functions without operating valves, both in the cab and at the spraying station. (option)

- Control of tank rinsing, the boom and the circuits in the cab
- Mixing control in manual mode
- Control of filling volume with automatic cut-out and automatic control of mixing depending on the tank level with DUALELEC 5
- The system may still be used manually in the event of a fault

# An innovative and ideally suspended chassis

## ACTIFLEX 2 suspension: the top of the range!



INNOVATION  
BY BERTHOUD

ACTIFLEX 2 axle suspension: the quality of your spraying depends among other factors on the stability of your machine.... BERTHOUD therefore proposes ACTIFLEX 2, a fully mechanical suspension with variable stiffness that is independent of the load. Based on a modification of the lever arm, it requires very little maintenance and provides you with true comfort and work quality!

## On-road driving in total peace of mind and safety, you are safe

The VANTAGE range is entirely DREAL certified to drive on roads at 25 km/h. **Try the 40 kph version:** BERTHOUD offers the FRANCE 40 kph certification option on VANTAGE 43-46, 55-60 and 67-71 with all booms.

EXCLUSIVE TO  
BERTHOUD



## Adopt trace monitoring, reduce the impact on your crops!

### Advantages

- Based on the distance travelled, it is efficient regardless of the travel speed
- Optimised stability regardless of the speed and turning radius
- Can be used in automatic or manual modes

*The tracking axle option allows the sprayer to stay in the track of the tractor. It may be used in automatic mode, but may also be controlled manually to avoid obstacles or when used on sloped ground.*



## Optimised distribution of masses on the chassis the tank design

- A high-density polyethylene diamond point tank that optimises the emptying of the tank.
- Limited height of the tank, wider at the bottom to keep the centre of gravity low.
- Sump with suction via a lateral pipe = no "syphoning" effect at the bottom of the tank = limits volumes at the bottom of the tank.
- Rinsing tank (380, 580 or 700 l depending on the models) positioned at the front and centre of the chassis for good load distribution and an evenly balanced machine.
- The tank has a wing shaped front that allows the shock waves of the spray mixture against the walls to be broken up.

Berthoud, at the heart  
of innovation

# Technology for precision made in BERTHOUD

## DPAE BERTHOUD regulation

BERTHOUD flow regulation is based on a pressure sensor, which offers several advantages:

- Improved precision (pressure measurement close to the nozzle and more efficient on smaller volumes)
- Not affected by blocking
- No calibrated returns
- Low maintenance
- Closing of nozzle/nozzle requires no change in setting
- etc.

Various units will be associated with the VANTAGE



The monitor  
**EC TRONIC**



The monitor  
**VT TRONIC**



The full ISOBUS solution  
**ISOTRONIC**

- Permanently display the main spray parameters (volume/ha, speed, pressure measured)
- Integrates certain options: DUALELEC, etc.
- Traceability (by plot, with multi-users, etc.)
- Individually controls 15 sections sequentially on the multi-function joystick
- Compatibility for GPS support: ISOBUS (TC-SC, TC-GEO, etc.), Trimble TUVR, etc.

## BERTHOUD advantages

Whatever the solution adopted, VANTAGE is supplied with the E-PILOT wireless joystick, which enables to control the hydraulic functions of the sprayer, opening the spraying within a radius of 20m around the machine.



The new VT TRONIC display is a top-of-the-line ISOBUS terminal offering standard features such as guidance, section shut-off, intra-plot dosage adjustment and documentation. The display has a touch-screen and displays information in windows that can be moved with the "fingertip" for comfort and visibility.

It runs on Android on which it is possible to install additional software to multiply its features. You can download farming applications or view information such as weather, rainfall alerts, cereal prices etc.

### THE VT TRONIC DISPLAY OFFERS:

- A 30 cm high-resolution touch screen
- An LCD screen displaying maps per plot (in aerial view) where you can see passages, field boundaries
- Runs on Android, with the latest graphic cards and a very user-friendly navigation menu
- Compatibility with integrated and assisted guidance systems with different levels of accuracy
- Can be used with other ISOBUS tools

The VANTAGE in the ISOTRONIC version is delivered without a cab unit. Connected to an IsoBUS tractor, VANTAGE will be recognised by the tractor Universal Terminal (UT), which will display the spraying parameters and will control the sprayer functions. The same is true for advanced applications of Precision farming grouped under the concept of TASK CONTROLLER: Section shut-off (TC-SC), Dosage adjustment (TC-GEO), Task documentation (TC-BAS), which will also be managed from the Tractor Terminal if this is permitted.

Berthoud is a member of the Agricultural Industry Electronics Foundation (AEF) whose goal is to promote ISOBUS for all machines, terminals and tractors through the ISO 11783 communication protocol. The objective is a perfect compatibility between suppliers and total freedom in choosing the unit for the users.

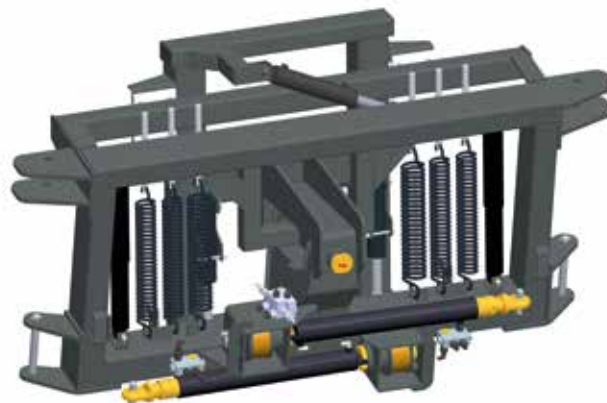
High  
technology

# A wide range of booms

## AXIALE boom Legendary stability

Exceptional vertical stability especially when turning and very good stability on sloped ground thanks to its central pivot suspension. It follows variations in slopes without any action required from the user. Available from 24 to 33 m.

The boom is equipped with an anti-whipping device independent for each arm. This system reduces horizontal whiplash when accelerating and braking to protect the boom structure.



## EKTAR B2 and B3 The strength of a range: make your choice

**EKTAR B2 boom (double arm folding):**  
*Your performance advantage for dealing with large surface areas*

Available in 36, 38, 40 and 42 m, the EKTAR B2 boom was developed by BERTHOUD to provide you with a real advantage to increase your productivity.

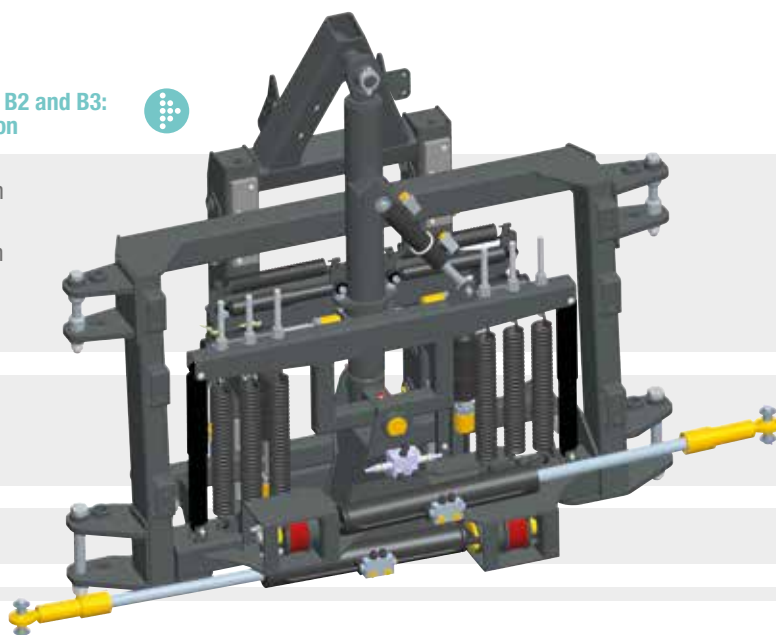
**EKTAR B3 boom (3 arm folding):**  
*the EKTAR advantage in 3-arm version*

Available from 36 to 44 m, the EKTAR B3 boom has a POMMIER design arm and is associated with a BERTHOUD Pendulo-Axiale suspension.

A point in common between EKTAR B2 and B3:  
the Pendulo-Axiale boom suspension



- Allows you to work in axial mode or in pendulum mode, you can switch from one mode to the other from the cab
- Double anti-whiplash effect = on unfolding actuators of the main arms and on the mobile frame
- Slope control, variable geometries and reset as standard



## KONDOR boom A compact boom

3-arm folding boom available in 32, 33, 36 and 38 m. Equipped as standard with an axial suspension and an "L" steel boom structure

# Optional equipment that makes the difference

## BOOM CONTROL: the most efficient system on the market (option)

The BOOM CONTROL keeps the boom at a height that is pre-set by the user. Three versions are available:

### SLANT CONTROL version

The SLANT CONTROL version allows you to control the height of the boom and the slope automatically.

### TOTAL CONTROL version

The TOTAL CONTROL version controls the height, variable geometries, etc.

**ACTIVE ROLL version** The ACTIVE ROLL version controls the height, the slope corrector and variable geometries.

## Advantages of BOOM CONTROL

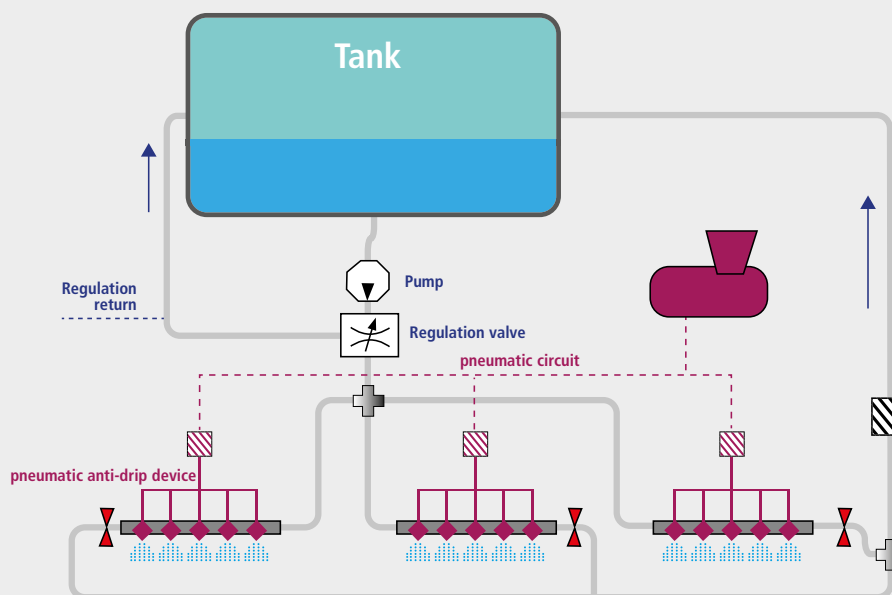
- Working speed of up to 30 km/h
- Soil/Crop/Hybrid Mode
- In the TOTAL CONTROL and ACTIVE ROLL version, there is a proportional hydraulic valve for quick and smooth movements
- Automated headland mode
- Factory fitted or can be added later to the machine



EXCLUSIVE TO BERTHOUD

## Flow of spray mixture, make the difference!

Equipped with discontinuous flow as standard, Vantage can also be fitted with the semi-continuous flow version. This system permits continuous flow of the liquid during spraying. This type of flow has an advantage when using powder products and when carrying out low volume treatments. Finally, Vantage can have the option of continuous flow.



### Continuous flow (option)

This ensures that the spray mixture flows during and after spraying. Based on an AGP (Pneumatic Anti-Drip) system, it provides various advantages:

- Minimises dirt and deposits
- Permanent agitation
- The rinsing water may be used several times by "recirculating" it = less contaminated water to be evacuated
- Rapid start-up
- Instantaneous pneumatic cut-out
- Returns channelled to a single pipe
- Motorised valves to open the flow from the cab

# /// DARK

BY BERTHOUD

DARK is a powerful expression of the legacy of BERTHOUD's know-how but also one of the most innovative and promising technologies for the future. It creates an elegant breakaway in terms of style from the past and is the vector of the Berthoud technology among the most demanding users.



Apart from its Style, DARK is characterised by 2 other elements:



## /// DARK COMFORT

### DRIVING IS NOTHING WITHOUT PLEASURE

Available on the DARK range, this equipment maximises your comfort when working.

- Your sprayer at your fingertips thanks to the fully motorised DUALELEC
- Optimised spray quality thanks to continuous flow combined with the pneumatic anti-drip device
- etc.

## /// DARK PRIVILEGE

### STAY CALM, FOCUS ON THE DRIVING

On a farm, the sprayer is the most used machine during the year. It guarantees the quality of spreading plant protection products, which will determine a part of the crop yield. In addition, spraying must take place at a specific date. So a breakdown can have a huge impact on the crop management and the economic profitability of the farm.

**Dark privilege** has been designed to bring you greater peace of mind in the use of your machine. It has the following characteristics:

#### **DARK Privilege ★**

It consists of **Smart & Go Premium**: A BERTHOUD technician will assist you with the start-up and then visit you after a season of use to fine-tune the use of your machine and answer all your questions

#### **DARK Privilege ★★**

It includes **Smart & Go Premium** and an extended warranty.



For several years now, we have been working hard to stay close to you through visits, customer meetings, etc. because you are our main source of inspiration.

When you purchase a DARK model, **you are entering a world where you are at the heart of our focus**. We will call upon you take the time to listen to you so that our ranges of machines are constantly upgraded to meet your needs more precisely.

# BERTHOUD®

*Forward together*

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