Row crops

Mounted Units

1000 L  1200 L  1600 L
A particularly novel design, the new mounted sprayer, the Elyte is a complete technological package with unrivalled levels of performance in its category. Safety, ease of operation, accuracy of application, and respect for the environment are all paramount.

Available in 3 capacities, 1000, 1200 and 1600 litres and with 4 types of regulation systems (Autoregleur, DP Control, DP Tronic and EC Tronic), it can receive spray booms Axiale, RLD, Multis, Ulys, Elypse from 15 to 30 m.

With its curved yet streamline shape, compact and smooth, the new Elyte mounted sprayer catches the eye from the very first moment.

Elyte is a perfect blend of aesthetic design and technical innovation.
When the unit is being unhitched, foldaway support legs prevent it from toppling forward and damaging any crops.

With the automatic hitching system incorporated into the chassis, hitching operations are carried out in all simplicity and under the best possible safety conditions. Hitching the spray unit onto the tractor is made even easier by the long drive shaft going to the pump at the back.

Simple to operate

Filling
The main tank can be filled:
either through the manhole (via the screen filter), which is easily accessible using the foldaway step

or by connecting onto the external suction pipe with a fire hose connection.

Berlogic panel
With the Berlogic panel, operating the unit — filling, mixing, agitating, spraying, etc. — is as rapid and easy as possible.

Agitation
The contents of the tank are agitated by a venturi on the tank return line. The stirring power can be adjusted on the Berlogic panel.

Easy maintenance

Standard servicing for the Elyte is extremely simple as its different elements are all easily accessible.

40 km/h on roadways

The Elyte’s width, no matter what model of boom may be fitted, is less than 2.55 m. So, you are not outside limits for using public roads. You can drive at speeds up to 40 km/h in total safety … and in total serenity!

Comfort and safety

Hand wash tank
A 16-litre capacity tank for washing hands has been incorporated in the left-hand door of the unit.

Feed hopper
Products can be incorporated effortlessly and in all safety using the foldaway feed hopper and its integrated can rinser.

Sheet metal protection
A sheet metal protection panel can be added to the chassis as an optional extra for avoiding any risk of damaging crops.

Clothing compartment
A clothing compartment is incorporated into the rinsing tank on the right-hand side of the unit.
The hopper can be fed by the outside suction circuit, which means that clean water can be used for incorporating products and rinsing the hopper or product cans. A system that eliminates any need to rinse the mixing circuit and reduces amounts of phytosanitary effluent.

Today, respect of environment and user safety must go hand in hand with efficient spraying. This notably involves good phytosanitary practice. With the Elyte, Berthoud offers you several simple and novel solutions for making your task easier:

**MIXING USING CLEAN WATER**

The hopper can be fed by the outside suction circuit, which means that clean water can be used for incorporating products and rinsing the hopper or product cans. A system that eliminates any need to rinse the mixing circuit and reduces amounts of phytosanitary effluent.

**ACCURATE MEASUREMENT OF THE MIX VOLUME**

Four models of gauge are available. In its standard version, the Elyte is equipped with a direct read-out gauge. As an optional extra, it can be fitted with a rotary drum gauge or Nivelec and Nivomatic electronic gauges. Placed on the front of the unit, the new Berthoud rotary drum gauge is accurate and easy to read from both the cabin and the filling station.

NIVELEC AND NIVOMATIC GAUGES PROVIDE EVEN MORE ACCURATE READINGS AND COMFORT; THE VOLUME IS DISPLAYED ON A CONTROL BOX INSIDE THE CABIN.

**RINSING THE BOOM WITH CLEAN WATER**

With the Elyte, in-the-field rinsing is made easy by:

1. The final rinsing of the spray circuit can be done using clean water. Water pumped into the rinsing tank is then sent to the tank via rinsing balls or to the boom without any return line back to the tank. This system also enables to rinse the machine if the spraying operation has to be stopped. The “automatic rinsing” option enables to control these operations from the tractor cab.

2. The two rinse circuit ball valves on either side of the main tank for high-performance rinsing.

3. The main tank on the Elyte possesses a sump with a lateral draw-off tap for complete draining before the pump is no longer primed.

4. The piping, channelled through the central arm, is shorter, which means less residual volume.

**REDUCING RESIDUAL VOLUMES**

PREPARING THE EXACT VOLUME OF MIX NEEDED FOR TREATING A GIVEN AREA IS ESSENTIAL FOR LIMITING RESIDUAL QUANTITIES AT THE END OF TREATMENT.

With the Nivomatic gauge a given volume can be programmed when filling. Once the volume has been attained, the gauge can either set off an audible alarm or stop the filling operation. An efficient solution for avoiding any accidental overflows.

**Technology at the service of the Good Practice**
Precision spraying


Regulation

AUTOREGULATEUR DPM

AUTOREGULATOR is a DPM (Flow Proportional to Engine speed) regulation unit. This system allows you to maintain a constant volume/ha in a selected gear ratio; it is very precise for speed variations of up to 20%.

> Simple and economic solution
> DP CONTROL option for a permanent display of the 4 main spraying parameters (vol/ha applied, forward speed, litres sprayed, calculated pressure)
> BERJUST 2000 option: This monitor can be used to alternately display volume/ha applied and forward speed. If necessary, it can also display the number of litres sprayed, the hectares sprayed and the kilometres travelled.

DP TRONIC and C TRONIC: electronic regulations via pressure sensor

Regulation by a pressure sensor offers several advantages:
> Improved accuracy (pressure measurement close to the nozzle and more efficient on smaller volumes)
> Not affected by clogging or blocking
> No calibrated returns
> Reduced maintenance
> Closing of nozzle/nozzle requires no change in setting

DP TRONIC monitor is used to:
> Control spraying and the boom
> Adjust the volume/ha
> Permanently display the 4 main spraying parameters (Volume/ha, speed, litres sprayed, pressure measured)
> Display individual totals which can be stored for 10 plots
> Suitable for precision agriculture

DP Tronic advantages

> Start-up pressure
> Minimum pressure during spraying (pressure threshold)
> Adjustment of the dose during application within DPE mode
> May be used with a multi-function gun for increased working comfort

C TRONIC monitor

It is used to:
> Permanently display the 4 main spray parameters (volume/ha, speed, litres sprayed, pressure measured)
> Integrates certain options: weather station, etc.
> Traceability by plot, multi-users, etc.
> Individually control 15 sections sequentially on the multi-function joystick

C TRonic advantages

> BUS CAN technology
> Large 15 cm colour screen
> GPSTEC wireless multi-function joystick (standard in ED, optional in SEH): work within a radius of up to 25 m from the central unit to check any blocking of the nozzles, the adjustment of the boom, the measurement of the nozzle flow from outside!

Gps assistance

ELYTE can also be fitted with semi-continuous flow. This system allows a continuous flow of the liquid during spraying to avoid clogging at the end of the sections.

Circulation of spray mixture

Discontinuous circulation: The basis

The spray mixture flows in the sections only when spraying, no return to the tank at the end of the section.

Semi-continuous circulation (optional):

This ensures that the spray mixture flows during and after spraying. Based on an AGP (Pneumatic Anti-Drip) system, it provides various advantages:
> Minimum dirt and deposits
> Permanent agitation
> The rinsing water may be used several times by “recirculating”
> It is less contaminated water to be evacuated
> Rapid start-up
> Instantaneous pneumatic cut-out

Continuous circulation (optional):

The BERTHOUD regulation units may be fitted with TECH or TECH Visio units for guiding and separating sections.

These solutions allow:
> Guiding
> Separation of sections by GPS with display of the state of the sections (closed/open) and the zones worked on in single, double or triple passes.

Continuous circulation (optional):

These enhanced features are offered for the ELYTE:

> Minimum dirt and deposits
> Permanent agitation
> The rinsing water may be used several times by “recirculating”
> It is less contaminated water to be evacuated
> Rapid start-up
> Instantaneous pneumatic cut-out

Pumps

GAMA pump

Reputed for its sturdiness and long service life, Gama piston pump (101, 130 or 160 l/min) possesses two major advantages:
> Excellent volume measurement, which guarantees the accuracy of the DPM regulation systems (Autoregulator and DP Control)
> Minimum servicing requirements: thanks to its oil-bath mechanism, the use of stainless steel valves and the absence of an air chamber.

Diaphragm piston pump (in option)

> 280 l/min - 20 bar
> Simple and economic
Axiale & Elyte **perfect harmony**

**TODAY, THE REPUTATION OF AXIALE BOOMS, WHICH HAVE ALREADY BEEN THOROUGHLY TESTED ON BERTHOUD TRAILED UNITS, IS WELL ESTABLISHED.**

**REMARKABLE STABILITY**

- Remarkable vertical stability especially on turns and a very good performance on hillsides thanks to its central pivot suspension system.
- No whipping due to the rigidity of its triangulated structure.
- Slope correction and variable geometry available on option.

**A CENTRAL PIVOT SUSPENSION SYSTEM**

The Axiale boom is mounted on a central pivot close to its centre of gravity. The boom’s balance and parallelism in relation to the tractor axle is provided by four return springs placed between the fixed and mobile frames. Vibrations are dampened by two shock absorbers.

**FOLDING UP AND UNHITCHING**

**AXIALE AND ELYTE, AN IDEAL COMBINATION**

- The "nitrogen ball" suspension system for the lifting arm improves shock absorbing and takes weight off the boom structure.
- The height and slope indicators on the front of the unit make operation easier.

**DIMENSIONS**

**ROBUSTNESS**

Robustness of the link points, long service life for the hydraulic cylinders, which work with their shafts retracted when the boom is in an unfolded position.

Quadris nozzle holders protected in front and behind

Foldaway boom ends

5 m 5 m 4 m 4 m 2 m 2 m 2 m

6 m

4 sections

Axiale 24/18/12 ED controlled
Ulys & Elyte

Designed for all types of farming, the UlyS rear-folding boom offers a number of advantages: reduced size, easy access to the cab and manhole, sturdy structure, remarkable stability.

**Remarkable stability thanks to its axial suspension system**

- Excellent stability on turns and slopes thanks to its pivot suspension system
- Slope corrector available as standard and variable geometry optionally

**A specific suspension:**

Axial suspension on a central pivot with 4 return springs and 2 shock absorbers. Specific anti-whipping system made up of 2 silentblocks and a shock absorber on the central pivot increasing the service life of the boom structure.

**Extra sturdiness**

- Folded metal frame with integrated spray circuit, nozzle holder and nozzles.
- Extra sturdiness

Cylinders work with their shafts retracted when the boom is in an unfolded position: locking of link points, no whipping of the arms, protection of the cylinders.

**Control using tractor distributors, SEH or ED**

Tractor distributor version (1SE and 2DE)

- Complete unfolding and locking
- Slope corrector

Electro-Hydraulic Selector version (1SE and 1DE)

- Unfolding of the boom
- Locking
- Slope corrector

Electro-Distributors version (1SE and free return)

- Complete or independent unfolding
- Locking
- Slope corrector
- Variable geometry

**Folding and layout:**

Multiple options to meet your requirements

- Breakaway boom ends at the front and the rear
- Successive unfolding of arms using hydraulic contactors

**Extra sturdiness**

- Extra sturdiness
- Axial suspension on a central pivot with 4 return springs and 2 shock absorbers. Specific anti-whipping system made up of 2 silentblocks and a shock absorber on the central pivot increasing the service life of the boom structure.

**Remarkable stability thanks to its axial suspension system**

- Excellent stability on turns and slopes thanks to its pivot suspension system
- Slope corrector available as standard and variable geometry optionally
**MULTIS & RLD booms**

**RLD BOOM**
- Tubular structure protected by Berthoud Ultra-High Resistance paint
- Four boom models: 18, 20, 21 and 24 m
- Hydraulic side-folding
- Suspension with two or four hillside links
- Lift on central arm

**FOLDING AND LAYOUT**

**MULTIS BOOM**
- Rear-folding boom 15 and 18 m. compact and lightweight, the MULTIS boom offers a number of advantages

**MULTIS**
- Multi-purpose
  - Designed for mixed farming, livestock breeders and vegetable growers, it offers maximum compactness and great flexibility for folding/unfolding the arms.
- Compact and lightweight
  - With an extremely reduced clearance, it makes driving on roads and winter storage very easy and is suitable for all types of tractors.
- Modular
  - Disconnection of the arms for flexibility of use.
- Sturdy
  - Protection of the boom by Berthoud UHR paint or galvanisation, front and rear protections of nozzle holders, breakaway boom ends.

**REAR-FOLDING BOOM 15 AND 18 M. COMPACT AND LIGHTWEIGHT, THE MULTIS BOOM OFFERS A NUMBER OF ADVANTAGES**

**FOLDING AND LAYOUT**
ELYTE ELYPSE boom

DEVELOPED BY CAPITALISING ON BERTHOUĐ’S EXPERIENCE, THE ELYPSE BOOM OFFERS AN INNOVATIVE FAN FOLDING SYSTEM THAT LIMITS THE SIZE IN FOLDED POSITION, THEREBY SIGNIFICANTLY REDUCING THE OVERHANG.

An innovative folding concept

- Fan folding of arms
- Innovative concept for limiting the boom size

Exceptional stability

- Remarkable vertical stability especially on turns and a very good performance on hill-sides thanks to its central pivot suspension system
- Slope corrector available as standard and variable geometry optionally

Sturdiness of the AXIALE structure

- Triangulated arm structure made of steel, the last arm in aluminium profile
- Limited whipping thanks to the triangulated structure
- Pipes, nozzles and nozzle holders integrated into and protected in the boom structure
- Robustness of link points, long service life of the cylinders which work with their shafts retracted when the boom is an unfolded position

Hydraulic controls

- Electro Hydraulic Selector version (1SE and 1DE)
  - Complete or independent unfolding of the boom
  - Locking of the suspension
  - Slope corrector

- Electro Distributors version (1SE and 1 free return)
  - Complete or independent unfolding of the boom
  - Locking of the suspension
  - Slope corrector
  - Variable geometry

BOOM CONTROL: the most efficient system on the market

BERTHOUĐ’s automatic boom height regulation system, BOOM CONTROL, is available optionally on all of our machines equipped with electro distributors. The BOOM CONTROL system maintains the boom at a height preset by the user. Two versions are available:

SLANT CONTROL version

The SLANT CONTROL version controls the boom height and slant automatically

TOTAL CONTROL version

The TOTAL CONTROL version controls all the boom functions: height, variable geometry, even slant (depending on the boom type)
## Features & Equipment

### Elyte Autoregleur

<table>
<thead>
<tr>
<th>Model</th>
<th>1000</th>
<th>1200</th>
<th>1600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic hitching</td>
<td>X</td>
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<tr>
<td>125 l rinsing tank</td>
<td>X</td>
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<tr>
<td>165 l rinsing tank</td>
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<tr>
<td>Storage compartment</td>
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<td>16 l hand wash tank</td>
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<tr>
<td>Mixing hopper</td>
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<td>Berlogic panel</td>
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<tr>
<td>Direct read-out gauge</td>
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<td>Drum gauge</td>
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<tr>
<td>Nivelec gauge</td>
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<tr>
<td>Nematic gauge</td>
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<td>Filling filter (8/10 mm)</td>
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<tr>
<td>Suction filter (6/10 mm)</td>
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<tr>
<td>Pressure filter (6/10 mm)</td>
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<td>Agitation by return of unsprayed liquid to the tank and hydromax</td>
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<tr>
<td>Ball valves for rinsing</td>
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<tr>
<td>Electric tank and boom rinsing controls</td>
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<tr>
<td>GAMA 101 pump</td>
<td>Standard for Multis booms</td>
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<tr>
<td>GAMA 130</td>
<td>Option (standard for RLD - ULYS - AXIALE - ELYPSE 24 booms)</td>
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<tr>
<td>GAMA 160</td>
<td>Option (Standard for ELYPSE booms 28 to 30 m)</td>
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<tr>
<td>Diaphragm pistons BP 280 (280 l/min - 20 bar)</td>
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### Elyte DP Tronic EC Tronic

<table>
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<th>1200</th>
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<tbody>
<tr>
<td>Automatic hitching</td>
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<tr>
<td>Autoregleur control (DPM)</td>
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<td>Berjust 2000 (power-assisted DPM)</td>
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<tr>
<td>DP Control (power-assisted DPM)</td>
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<td>DP Tronic (DPAE)</td>
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<td>EC TRONIC (DPAE)</td>
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<td>MULTIS boom</td>
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<td>RLD boom</td>
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<tr>
<td>AYAXLE boom</td>
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<td>ULYS boom</td>
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<td>ELYPSE boom</td>
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<td>BOOM CONTROL</td>
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<td>Semi-continuous flow</td>
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<td>Continuous flow with AGP</td>
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<td>Boom lighting</td>
<td>Option on AXIALE - ULYS - ELYPSE</td>
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<td>External washing</td>
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### Dimensions in m

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<tr>
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<th>Multis 15</th>
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<th>RLD 18/20</th>
<th>RLD 21</th>
<th>RLD 24</th>
<th>Axiaile 21</th>
<th>Axiaile 24</th>
<th>Axiaile 28</th>
<th>Ulys 18</th>
<th>Ulys 20/21</th>
<th>Elypse 24</th>
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### Weight in Kg

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<th>Multis 18</th>
<th>RLD 18/20</th>
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<th>Axiaile 21</th>
<th>Axiaile 24</th>
<th>Axiaile 28</th>
<th>Ulys 18</th>
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<th>Elypse 24</th>
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**Note:** TV: empty weight  
GVW: Gross vehicle weight  

### AXIALE boom type size

- **A**  
- **B**  
- **C**  
- **D**  

### MULTIS boom type size

- **A**  
- **B**  
- **C**  
- **D**
BERTHOUD, a history that goes back to 1895 on an initiative by Paul BERTHOUD. In 1987, the brand joined the Exel Industries group, the world leader in spraying techniques present in the agricultural, industrial and general public fields. BERTHOUD generates its turnover with row crops, vines and trees.

**Range advantage**

BERTHOUD meets all requirements: multi-crop-livestock farming, cereals, large farm holdings, ETA, Cuma… From the simplest machine (mechanical DPA), to BERTHOUD SOLUTIONS, (precision agriculture), they all benefit from the best resale value on the used machine market.

**Innovation advantage**

BERTHOUD designs all of its sprayers and over 10% of its employees work on Research & Development. BERTHOUD proposes its own concepts and had many patents: ACTIFLEX…

**Network advantage**

A special partnership of over 50 years with a network that provides a relay close to your location. 350 dealership technicians are trained every year in our Training Centre.

**Service advantage**

Delivery of spare parts in less than 24 h, delivery performance of almost 99% strengthened by the great availability of our teams on the road and the performance of our After Sales hot line.