

# Leeb AX



SIMPLE – SAFE – PRECISE



## Leeb AX

Compact crop care technology with active Boom control system BoomControl, continuous inside cleaning and easy operation.

- Minimum drift due to active boom control system and constant target area spacing even at high operational speeds
- User-friendly concept that is focused on the essential
- Central and clearly laid-out arrangement of the control elements
- Autarkic oil supply for high performance independent of the tractor



The HORSCH Leeb AX is an optimum entry into the HORSCH Leeb crop care technology. Due to a tank capacity of 4 000 l and the active boom control system BoomControl, it stands for efficiency and precision in the crop care sector. Combined with the continuous inside cleaning system ProfiClean and due to an excellent adaptability to the tractor, the Leeb AX is ideal for all conditions and requirements. Thus, the Leeb AX can be equipped with a continuous inside cleaning system to ensure a safe and straightforward cleaning by means of the displacement effect of the mixture with fresh water when changing agents. The cleaning pump is flanged directly to the 400 l fresh water tank that has sufficient reserves for cleaning. The manual valves on the suction and on the pressure side allow the user to work in his usual surroundings. Due to the intuitive operation and the labelling made of solid stainless steel, every operator still feels safe and comfortable after years.

Moreover, the AX is extremely flexible with regard to the requirements on the tractor. The farmer can choose between several options. The Leeb AX can be driven completely via the Load Sensing of the tractor. All functions are supplied with oil via the hydraulics of the tractor.

If the oil output of the tractor is too low, a combined operation is also possible. In this case, the pump of the sprayer is operated via a pto-shaft and the remaining functions are supplied via the tractor hydraulics.

Last but not least, there also is an autarkic hydraulic system. In this case, only one pto-shaft is required on the tractor side. The Leeb AX has its own hydraulic oil tank and its own hydraulic pump which is flanged behind the spraying pump. Thus, a state-of-the-art crop care sprayer can also be operated with older tractors that have no hydraulic system or sufficient hydraulic output.

To summarise, the AX is a machine with maximum flexibility that can be perfectly adapted to all requirements.



Autarkic hydraulic system



5-part boom with compact folding

# CONDITIONS OF USE



- Precise application technology with a nozzle spacing of 50 cm and an active boom control system BoomControl – the size is unique in the market
- Depending on the customer requirements, it can be adapted flexibly to the tractor. According to requirements, you can choose between an operation completely via Load Sensing, a combination of Load Sensing and pto-shaft or an autarkic system.

- Mixture tank with a capacity of up to 4 000 l and the option of a continuous inside cleaning for optimum cleaning results and a safe changing of agents.
- A proportionately controlled drawbar steering ensures a smooth and precise following of the machine in any situation to avoid track damages and to protect the crop.



Theodor Leeb

*User-friendly, reliable technology with the essential functions a HORSCH sprayer is known for. This means: no compromise with regard to the boom control system.*

# Basic

## Water system Basic



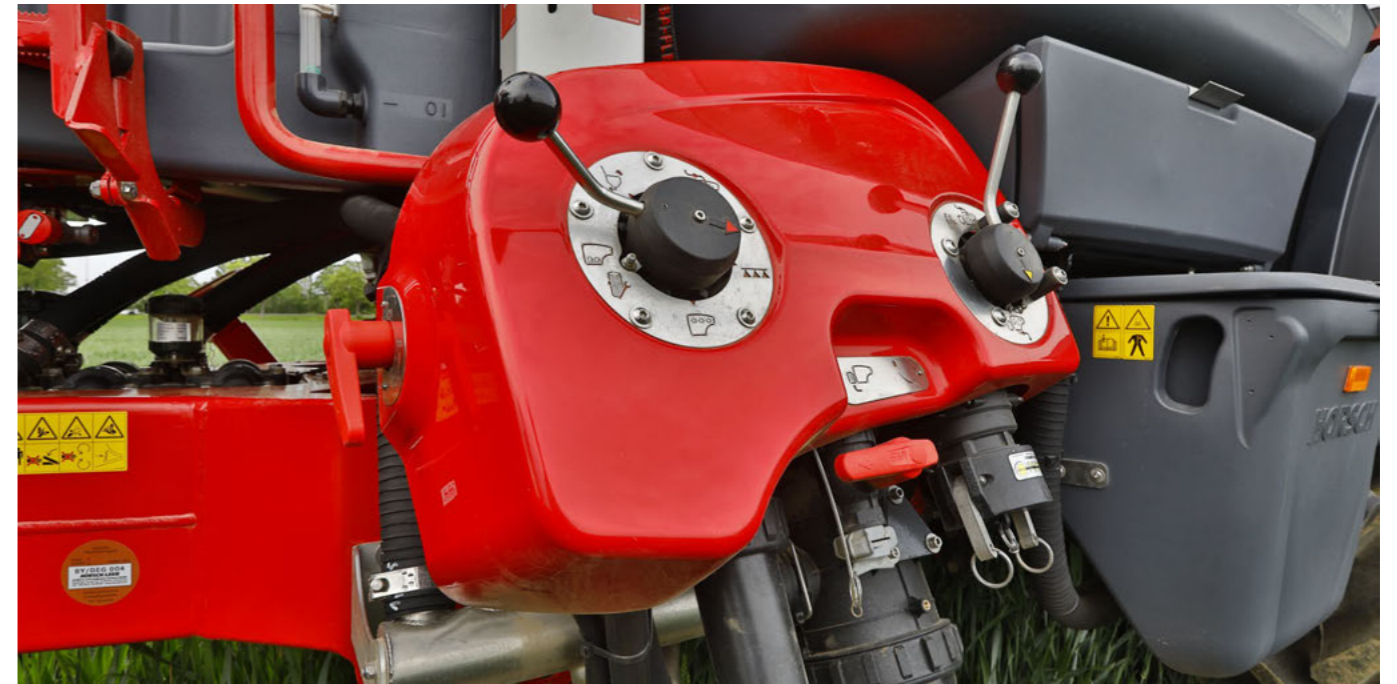
Water circuit Basic

In the equipment line Basic, the HORSCH Leeb AX is equipped with a piston diaphragm pump with 270 l/min (filling connection 2" from 5-way valve, 2" lines on the suction side) or 400 l/min (filling connection 3" from 5-way valve, 3" lines on the suction side). Suction and pressure side are operated manually. The spraying pressure is monitored with a pressure sensor and a pressure controller adapts the flow rate. The tank is equipped with a mechanical level indicator. A digital level indicator in the terminal in combination with an automatic filling stop is available as an option.

- Drive shaft driven piston diaphragm pump with an output of 270 or 400 l/min
- Pressure sensor for monitoring the spraying pressure and pressure controller to adapt the flow
- Suction and pressure side can be operated manually
- Mechanical level indicator at the mixture tank
- 1 DA control valve or Load Sensing connections
- Required oil quantity: 30 l/min

# Basic with ProfiClean system

## Water system Basic with ProfiClean system



Basic with ProfiClean system

In the equipment line Basic with ProfiClean system, the HORSCH Leeb AX is additionally equipped with a hydraulic rotary pump for continuous inside cleaning (CCS Continuous Cleaning System). Otherwise, the sprayer is equipped with the same piston diaphragm pump with 270 l/min (filling connection 2" from 5-way valve, 2" lines on the suction side) or 400 l/min (filling connection 3" from 5-way valve, 3" lines on the suction side) as the conventional HORSCH Leeb AX. Suction and pressure side are operated manu-

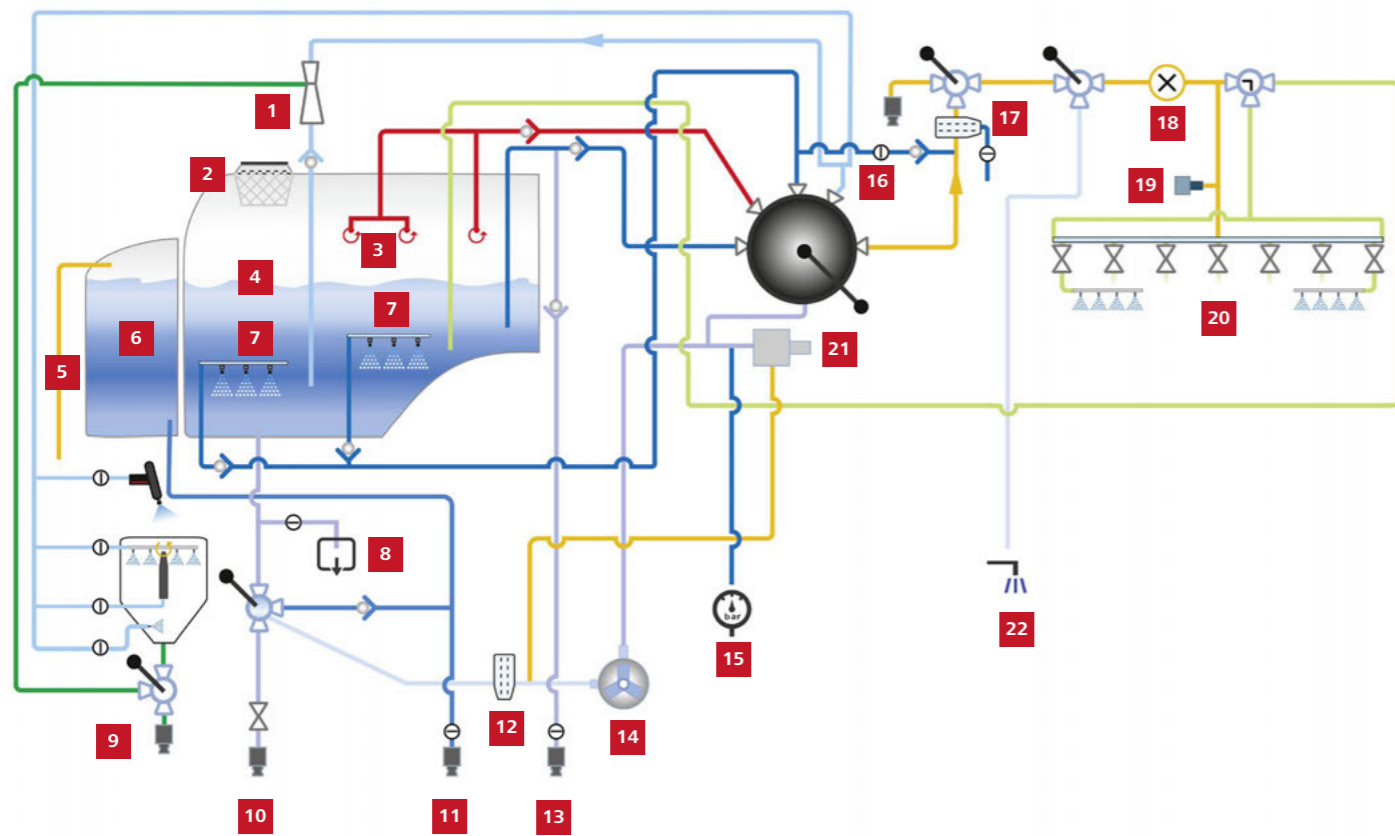
- Drive shaft driven piston diaphragm pump with an output of 270 or 400 l/min
- Additional hydraulic rotary pump for a continuous inside cleaning
- Pressure sensor for monitoring the spraying pressure and pressure controller to adapt the flow
- Suction and pressure side can be operated manually
- Mechanical level indicator at the mixture tank
- 1 DA control valve or Load Sensing connections
- Required oil quantity: 30 l/min

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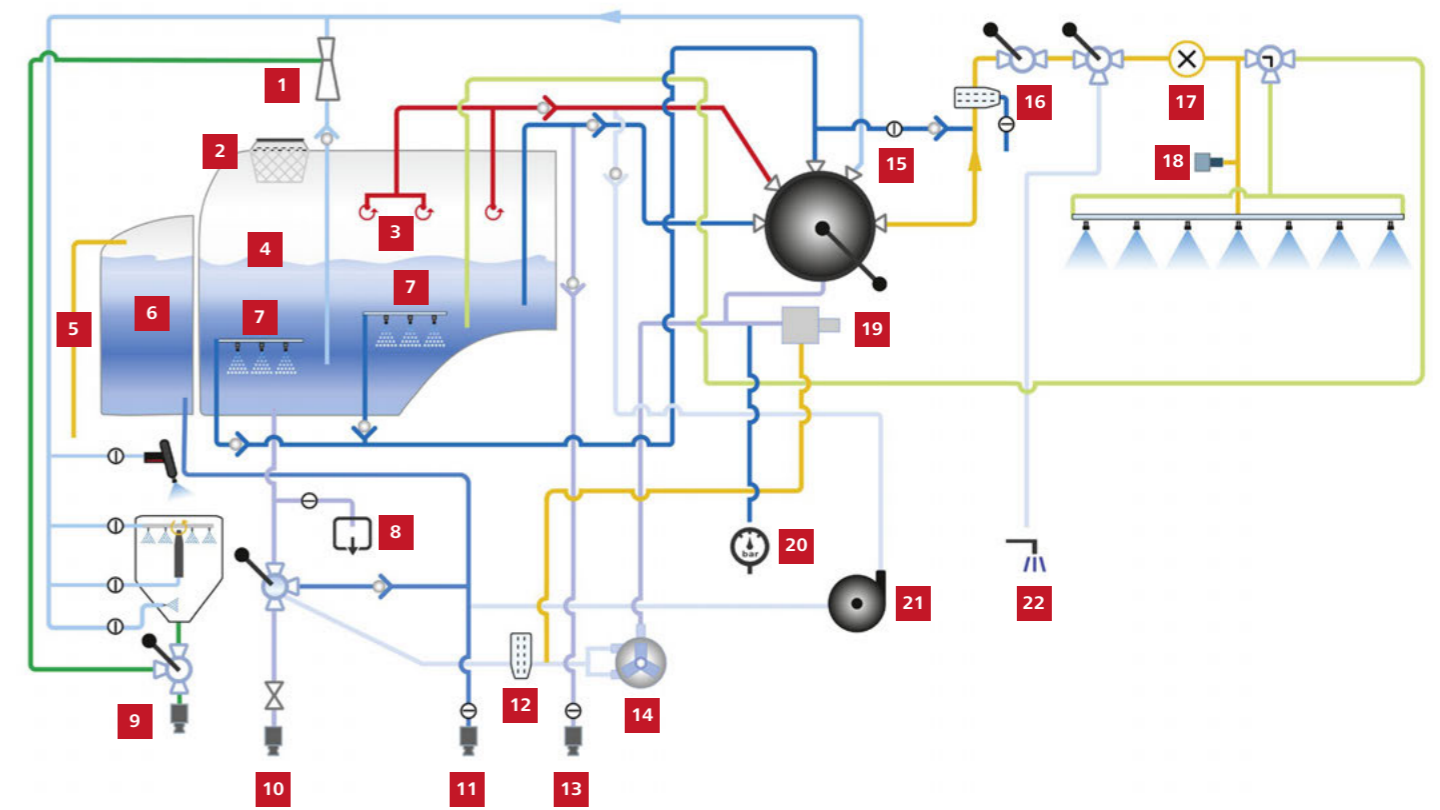
Leeb 4 AX inside view of the tank: powerful agitator and cleaning nozzles

## Water system – Basic – Leeb AX



- |                                |                                 |                               |
|--------------------------------|---------------------------------|-------------------------------|
| <b>1</b> Injector              | <b>9</b> Filling sluice         | <b>17</b> Pressure filter     |
| <b>2</b> Dome sieve            | <b>10</b> Suction filling       | <b>18</b> Flow meter          |
| <b>3</b> Inside cleaning       | <b>11</b> Filling fresh water   | <b>19</b> Pressure sensor     |
| <b>4</b> Spraying mixture tank | <b>12</b> Suction filter        | <b>20</b> Section valve       |
| <b>5</b> Overflow hose         | <b>13</b> Direct filling        | <b>21</b> Pressure controller |
| <b>6</b> Fresh water tank      | <b>14</b> Piston diaphragm pump | <b>22</b> Outside cleaning    |
| <b>7</b> Agitator              | <b>15</b> Pump pressure         |                               |
| <b>8</b> Residual discharge    | <b>16</b> Bypass agitator       |                               |

## Water system – Basic with ProfiClean system – Leeb AX



- |                                |                                 |                               |
|--------------------------------|---------------------------------|-------------------------------|
| <b>1</b> Injector              | <b>9</b> Filling sluice         | <b>17</b> Flow meter          |
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| <b>3</b> Inside cleaning       | <b>11</b> Filling fresh water   | <b>19</b> Pressure controller |
| <b>4</b> Spraying mixture tank | <b>12</b> Suction filter        | <b>20</b> Pump pressure       |
| <b>5</b> Overflow hose         | <b>13</b> Direct filling        | <b>21</b> Rotary pump         |
| <b>6</b> Fresh water tank      | <b>14</b> Piston diaphragm pump | <b>22</b> Outside cleaning    |
| <b>7</b> Agitator              | <b>15</b> Bypass agitator       |                               |
| <b>8</b> Residual discharge    | <b>16</b> Pressure filter       |                               |

# Distribution system and induction hopper

## No hose is the best hose

The sophisticated distribution system ensures an optimum supply of boom, intensive agitator, inside tank cleaning and induction hopper. Only one hose and one return flow hose are required for the circulation of the active ingredient solution across the entire boom width, this minimises deposits and blockage and facilitates cleaning.

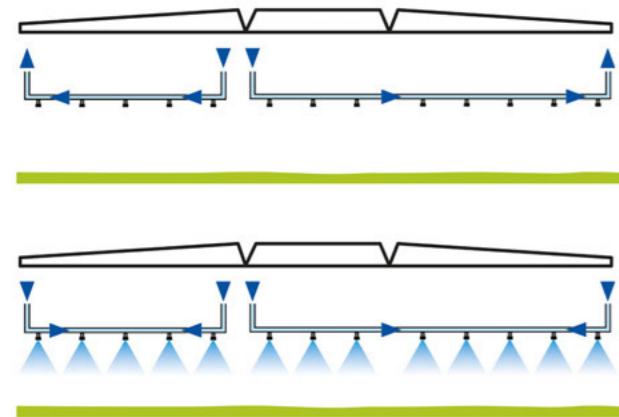
With the Leeb AX, you can choose between electric and pneumatic nozzle and section control. As soon as the pump is switched on, the spraying mixture circulates to the section with the electric switching option and to the nozzle with the pneumatic option. For both options, even if the sprayer is switched off, the active ingredient solution is always pumped through the boom. Due to short hose connections from the section valve to the nozzles, the spraying mixture is available directly and in a well-mixed way when the sections are switched on for the first time.

Cleaning is very easy: turn the suction side of the pump to fresh water, thus allowing for a circulation of clear water in the nozzle line. Then spray for a few seconds and the remaining spraying mixture is pressed out of all lines with clear water and all nozzles are cleaned, too.

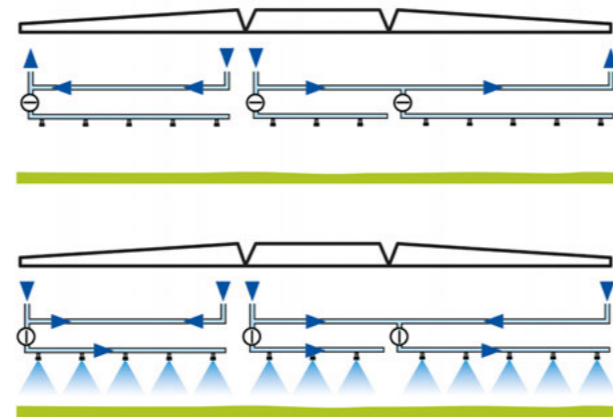
The swivelling induction hopper with a gas pressure absorber and a durable stainless steel labelling is equipped with an efficient injector filling. Upper and lower rinsing nozzles create a whirl-like circulation for quickly flushing-in liquids and are also suitable for granulate. Moreover, the induction hopper is equipped with an additional canister cleaning nozzle as well as a symbol bar with coloured control levers.



- Permanent circulation of the active ingredient solution
- Large tube and line cross sections for optimum circulation, no deposits and blockages
- Permanent spraying fluid at the nozzle, exact switching on and off
- Powerful induction hopper with convincing functions
- Available with pneumatic or electric nozzle and section control



Circulation with the pump running to the nozzle with pneumatic nozzle control (top). The spraying mixture is immediately available at the nozzle (below).



Circulation with the pump running to the section with electric nozzle control (top). Spraying mixture is always available at the section (bottom).

# Steering drawbar

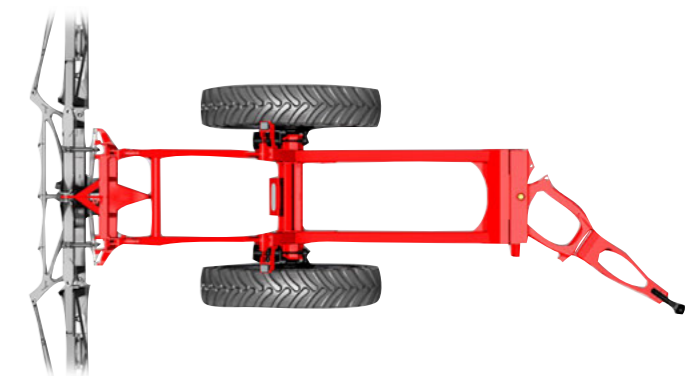
## Prevent track damage with the drawbar steering



Drawbar steering: crop protection and precise following in the tractor track

Drawbar steering is ideal for farms that use smaller working widths. Due to the design without the steered axle, the trailed sprayer remains straight in the track and behind the tractor for a long time before it turns. This avoids spraying windows that can easily be created if sprayers with a king-pin steering veer out for example on the headlands.

- Precise following of the tracks and proportionate-hydraulic control
- For a smooth boom position
- Reduces spraying window
- Allows for large wheel angles for high manoeuvrability



Optional drawbar steering, steering angle independent of tyres and track

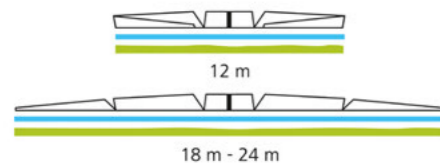
# Boom options

Precise technology – sophisticated to the last detail

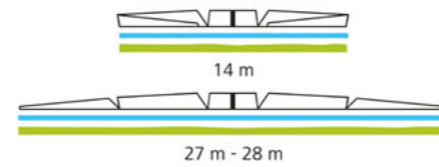
Basic boom versions with working widths ranging from 18 to 30 m are available for the HORSCH Leeb AX. They excel due to low folding times and a stable position – also in transport position. As spraying is possible with a partially folded boom as an option, the working width can easily be reduced. The boom provides an optimum protection of the nozzle bodies and can be folded quickly. A transport width of 2.55 m and a transport height of 3.80 m make the HORSCH Leeb AX a compact and manoeuvrable trailed sprayer.



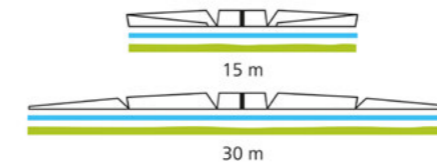
- Working widths ranging from 18 to 30 m
- Optional: reduce the working width by spraying with a partially folded boom
- Transport width 2.55 m (depending on tyres and track), transport height 3.80 m
- Low folding times



Boom: 5-part, optionally with reduced working width 12 m

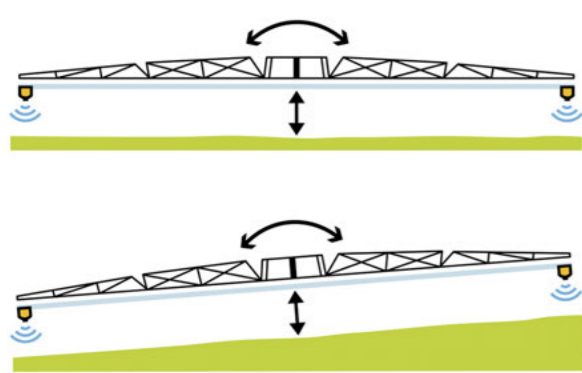


Boom: 5-part, optionally with reduced working width 14 m

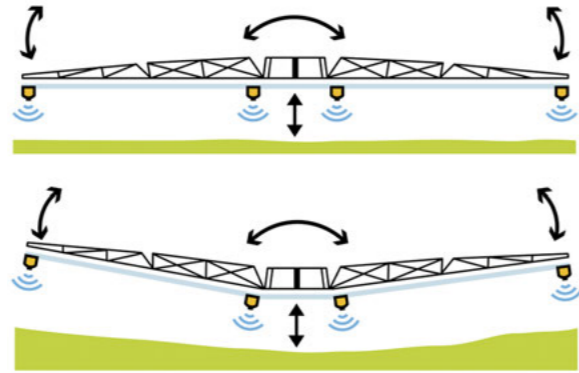


Boom: 5-part, optionally with reduced working width 15 m

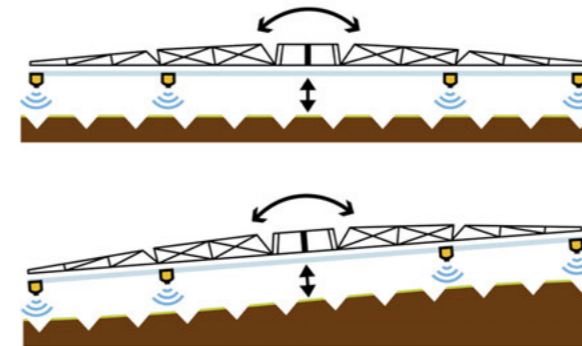




BoomControl – active adaption of the boom to the terrain due to two sensors



BoomControl Pro – active adaption of the boom to the terrain by means of four sensors



BoomControl/BoomControl Pro extension – extension of the field of vision is ideal for ridge and row crops

## BoomControl

Active boom control system  
BoomControl

- The precise, lowest possible working height is maintained due to automatic boom control system
- Boom control system with a target area spacing below 50 cm ensures minimum drift
- Active adaption of the boom to the terrain due to two sensors

## BoomControl Pro

Active boom control system  
BoomControl Pro

- Independent angling of the boom section and the middle section to follow the terrain
- Active adaption of the boom to the terrain due to 4 sensors
- The precise, lowest possible working height is maintained due to automatic boom control system
- Boom control system with a target area spacing below 50 cm ensures minimum drift
- Boom is completely independent from the machine

## Extension

BoomControl/BoomControl Pro

- Due to 2 additional sensors, the boom actively follows the terrain
- To increase the field of vision
- Ideal for ridge and row crops or for reduced working widths

# NightLight

Optimal spraying control at night

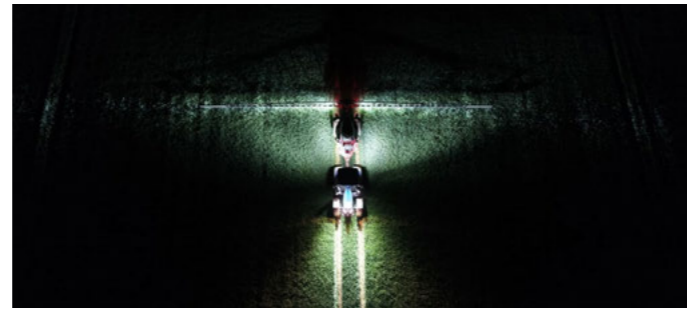


Innovative and powerful LED headlights ensure an optimum illumination with their heavily focused light which penetrates all spraying cones. Thus, the lighting system guarantees more safety and efficiency while spraying around the clock. A strong LED spotlight is installed per boom side to ensure optimum spraying control at twilight and at night as well as an overview of the nozzle function – also in section mode. The automatic light function deactivates the headlights on the headlands to prevent that for example passers-by are blinded.

- Innovative LED technology ensures optimum illumination
- Highly focused light penetrates all spraying cones
- Optimum spraying control at twilight and at night
- 100 % control of the nozzle function – also for section control
- More safety and efficiency while spraying around the clock



NightLight nozzle cone lighting



Optimal spraying control at dusk and at night

# Pneumatic nozzle and section control

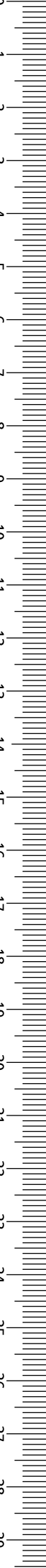
Performance due to diversity



HORSCH Leeb 4 AX - 1-0 triple manual

Due to the pneumatic nozzle control and the pneumatic section control, it is possible to precisely switch off nozzles and sections with compressed air. Individual and intelligent application technologies allow for an optimum penetration and wetting of the population. In addition, variable nozzle body combinations (pneumatically switchable) can be used. All nozzles are controlled individually and are pneumatically combined in sections. This also facilitates maintenance and the simple detection and repair of errors and blockages at the nozzles. As standard, all nozzle body configurations are equipped with nozzle holders for edge nozzles. Comprehensive tests in our wind tunnel show considerable advantages with regard to the drift behaviour depending on the target height.

- 50 cm nozzle spacing as standard
- Individually controlled nozzles, combined pneumatically in sections
- 5 to 18 possible sections (standard sections or individual configuration options)
- Excellent penetration and wetting of the population
- Allows for individual and intelligent application technologies



# INTELLIGENCE

## eosT10 (Pro)

With the new terminal generation eosT10 you can experience machine control at top level. Due to the high resolution and the sophisticated user guide, even complex machine functions can be operated comfortably. The high efficiency and the large (working) memory allow for a smooth handling of large data quantities or application maps. The terminal, thus, is the perfect all-rounder for the operation of the machine



By displaying up to 3 widgets in addition to the main working screen, the user can keep track of several applications at the same time

- High-resolution 10" terminal for controlling all ISOBUS devices according to ISO 11783
- Reliable and powerful: a high-performance hardware combined with an intuitive, user-friendly operation in daytime or night mode
- Straightforward transfer of application maps with the wireless Task Data Exchange
- Various layout options allow for a simultaneous display of several applications – for an optimum overview
- eosT10 and eosT10 Pro – one hardware, completed by two licence kits. Precision is always standard for us.



Due to the flexible holder, the eosT10 can be perfectly integrated in every cabin

# ADDITIONAL EQUIPMENT



HORSCH Leeb 4 AX – electric nozzle control



Hose drum for outside cleaning



Digital, easily readable display of the filling level in the terminal



Autarkic hydraulic system with minimum demands on the tractor



Full-floating axle for mechanical adjustment of the track width from 1.50 to 2.25 m depending on the tyres



Large storage compartments and shelves



Practical storage compartment directly at the induction hopper as standard



Induction hopper Leeb 4 AX

# TECHNICAL DATA

Leeb AX	4 AX
Empty weight (kg)	3150 - 3900
Vertical load empty (kg)	250 - 600
Max. permissible vertical load (kg)	2000
Axle load empty (kg)	2900 - 3300
Max. permissible axle load (kg)	8000
Total length max. (transport position / m)	7.60
Transport width (transport position / m)	2.55
Transport height (m)	3.80 - 4.00
Track widths, mechanically adjustable (m)	1.50 - 2.25
Clearance (m)	0.70
Mixture tank nominal volume (l)	3800
Mixture tank actual capacity (l)	4000
Fresh water tank (l)	400
Hand wash tank (l)	15
Working widths (m)	18 - 30
Sections min./max. (Piece)	5 - 18
Working height (m)	0.50 - 2.05
Pump output Basic (l/min)	270
Max. (BAR)	8
Operational speed (km/h)	4 - 16





Your distributor

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All specifications and diagrams are approximate and not binding. Technical features and design are subject to change.

EN-60142305 (05/2024)