Leeb LT



4/5 LT Light 4/5/6 LT





The basis

- Solidly designed frame made of quality steel
- Optional: air-suspended axle with level compensation
- Solid drawbar connection for large clearance, top or bottom connection, depending on the vertical load

Steering axle – less tramline damage (optional)

- Steering axle for stable positioning of the boom with high stability and exact tracking to avoid tramline damage
- Optimal, even in uneven terrain
- Large steering angle due to a taper-cut frame design

Large tyres - less ground pressure

- Wheels with diameter of up to 2.05 m
- Maximum ground contact area with perfectly adapted air pressure

Extremely low centre of gravity

— Tank shape is optimised with regard to the surging force

Taking care of the crop

- Smooth machine underbody
- No edges and corners on the underside of the machine $% \left(1,0,0,0\right) =0$
- Hydraulically foldable and fully covered support leg

Modern plastic tank

- Conical geometries for low surge forces
- 500 litre fresh water tank: enough water for a complete inside cleaning as only very little residual quantities remain in the system.
- Large radii, absolutely smooth surfaces and no back tapers for easy cleaning.
- Deep sump area for complete discharge and minimum residual quantities even on slopes.

Three equipment versions:

Eco

- Manual operation for the suction and pressure side
- Piston diaphragm pump (400 l/min) driven by pto-shaft
- Hydraulic agitator

CCS

- Manual operation for the suction and pressure side
- Additional piston diaphragm pump for the continuous inside cleaning system CCS
- Continuous inside cleaning can be operated in the cabin
- Oil-driven (Load Sensing) centrifugal pump (600 l/min)
- Hydraulic agitator

CCS Pro

- Electronic operation on pressure and suction side for complete control from the cabin
- Additional piston diaphragm pump for the continuous inside cleaning system CCS with automatic washing programs, e.g. intensive washing program, boom rinsing
- Centrifugal pump driven via oil (Load Sensing) (600 l/min)
- External control terminal
- Hydraulic agitator, is controlled electronically via terminal and external control unit. Automatic switch-off if the residual quantity in the mixture tank falls below 150 liter.



Theodor Leeb

"When developing our new Leeb LT the focus is on maximum precision in plant protection while at the same time guaranteeing maximum efficiency."





Leeb LTDETAILS

Leeb LT details

- Tank capacity: 4 000, 5 000 and 6 000 litre
- Top or bottom linkage selectable
- Low gravity centre of the spraying barrel
- Tank made of polyethylene (PE)
- Optimised tank shape for transport and cleaning
- Optimised hose laying reduces hose lengths to a minimum
- Boom suspension is designed as a parallelogram hydr. spring-loaded and damped.
- Soft and smooth boom rest even in hilly terrain and at high operational speeds.
- The geometry of the parallelogram has been designed in such a way that the boom is kept close to the axle.
 The suspension is extremely torsion-resistant and thus perfectly suitable for the automatic boom control system Leeb BoomControl.
- Nozzle protection againt mechanical damage of the nozzles and wind protection during the development of the spraying fan







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OUR STANDARD:

NO HOSE IS THE BEST HOSE.

Distribution system

- The distributor for the pressure side is mounted at the front below the platform
- Optimal supply of boom, inducation tank, intensive agitator and inside tank cleaning
- Only one hose for the entire boom width and one return flow hose for wash circulation in the boom
- No deposits and easy cleaning

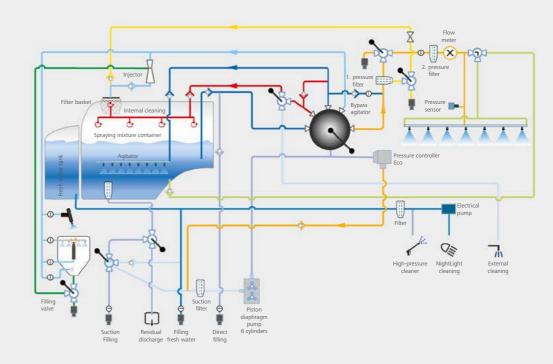
Induction tank

- Slewable induction tank with gas pressure damper
- Toolbar with coloured control levers
- Upper and lower rinsing nozzles guarantee a vortex-like circulation, thus guaranteeing a quicker jetting of salts and granules.
- Canister cleaning nozzle
- Optional: Induction hopper lining is made of stainless steel with more capacity and additional impact nozzle

Circulation system + nozzle cleaning

- Circulation of the chemical solution through the complete nozzle tube as soon as the spraying pump is switched on.
- Spraying fluid therefore is always at the nozzle, even with the spraying apparatus switched off
- When switching on a section or the entire spraying line for the first time, the chemical solution is directly and in a well-mixed way available in the partial system or in the entire spraying system.
- Prevents deposits and blockages
- Allows for simple cleaning: The suction side of the pump is set to fresh water – the nozzle line is flushed with clear water – then keep spraying for a few seconds to clean all nozzles.

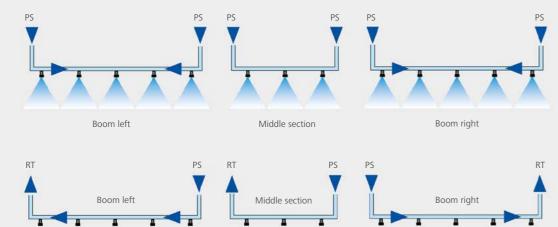
Eco



LEEB LT EQUIPMENT VERSIONS

ECO/CCS/CCS PRO

Circulation system



Sprayers

PS = Pressure Supply

Circulation

PS = Pressure Supply, RT = Return flow tank

Water system Eco

- Piston diaphragm pump with 400 l/min
- Filling connection 3", starting at 5-way-valve 2" at the suction side
- Pressure sensor to control the spraying pressure and pressure controller to adapt the flow rate
- Suction and pressure can be operated manually
- Electronic level indicator at the mixture tank









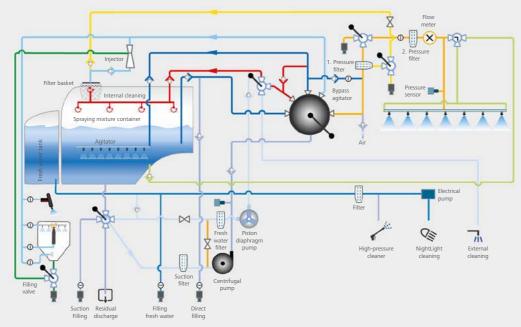
LEEB LT EQUIPMENT VERSIONS

ECO/CCS/CCS PRO

Continuous inside cleaning ContinuousCleaningSystem CCS and CCS Pro

- Quick sprayer cleaning process without having to get off the machine
- Complete control of the cleaning process from the cabin
- Function: Displacement instead of dilution
- An additional cleaning pump feeds clear water into the pipeline system. The spraying pump sucks this water in and uses it to force the spraying mixture residue through the nozzles out of the pipeline system.
- Quick, thorough and water consumption optimized cleaning

CCS



Water system CCS

- Centrifugal pump with 600 l/min
- CCS piston diaphragm pump
- Filling connection 3", starting at 5-way-valve 2" at the suction side
- Pressure sensors for pump and boom
- Suction and pressure can be operated manually

- Electronic level indicator at the mixture tank with automatic switch-off
- Continuous inside cleaning system CCS, can be operated in the cabin

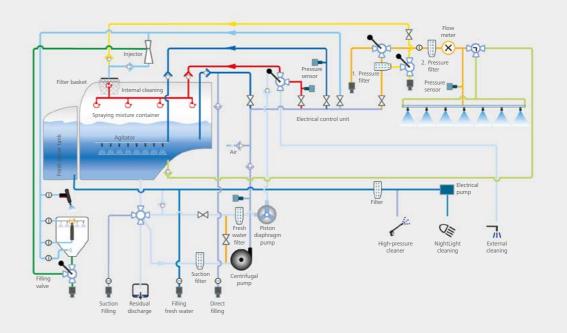
External control terminal

Symbols external terminal CCS Pro



- Advanced external control terminal for all relevant functions when filling
- User-friendly above the induction tank
- More functionality and ease of use due to a monitor in the range of the induction tank
- Even more comfort: Essential functions can be controlled via the external or the tractor terminal while filling.

CCS Pro



Water system CCS Pro

- Centrifugal pump with 600 l/min
- CCS piston diaphragm pump
- Filling connection 3", starting at 5-way-valve 2" at the suction side
- Pressure sensors for pump, agitator, inside cleaning and boom
- Suction and pressure side are controlled electrically
- Various cleaning and rinsing programs are automated

- Continuous inside cleaning CCS with various cleaning and rinsing programs, can be controlled from the tractor cabin.
- Operation via a large external terminal with all important functions for induction
- Electronic level indicator in the fresh water and mixture tank for automatic washing programs and with automatic switch-off











Terminal versions with ISOBUS system:

Touch 800 Terminal

- Latest Touch technology –
 800 x 600 pixel TFT-Dualtouch-colour display
- Individually extendable due to APP&GO®
- 1 camera connection
- USB connection

Touch 1200 Terminal

- 12.1" Touchscreen display with glass surface
- USB connection for transmitting order data
- 2 camera connections
- Due to the layout manager can be used in portrait and landscape format
- Landscape format: display of an application in normal view and up to 4 other applications in reduced view
- Portrait format: Simultaneous handling of two applications in normal view.

Multifunction joystick

 Comfortable handling via joystick. All important boom functions as well as the section control can simply be selectec via the multifunction joystick.

Parallel Tracking

- Uses corrected GPS signals
- Identifies position of the machine and shows this information on the display
- By means of an AB line a track system is laid that supports the driver with regard to finding the track
- Recommended for pre-emergence treatments without track markings

GPS-controlled section control

- Possible savings: as overlappings on the headlands are reduced, savings on chemical or mixture instead of agents of up to 3 % can be achieved.
- Up to 42 individual sections is possible





The Leeb LT can be controlled via various external terminals and joystick or the multifunction controler of the tractor.







Multifunction joystick

MAXIMUM POWER DUE TO INTELLIGENT APPLICATION TECHNOLOGY

Power by diversity

- 4-2

- Variable nozzle spacing
- With a 25 cm nozzle spacing the target area distance is reduced to an optimum
- Pneumatic individual nozzle control enables individual and intelligent application technologies
- Outstanding penetration and wetting of the crop
- Variable nozzle body combinations (pneumatically switchable):

- 1-0 one single nozzle body every 50 cm

– 1-0 (3M) one manual triple nozzle body every 50 cm

- 1-1 one single nozzle body every 25 cm

– 1-1 (3M) one manual triple nozzle body every 25 cm

- 2-0 one dual nozzle body every 50 cm

- 2-0 (4M) one manual quadruple nozzle body every 50 cm

- 2-1 one dual nozzle body every 50 cm,

1 single nozzle body as intermediate nozzle

- 2-2 one dual nozzle body every 25 cm

- 2-2 (4M) one manual quadruple nozzle body every 25 cm

- 4-0 one quadruple nozzle body every 50 cm

– 4-1 one quadruple nozzle body every 50 cm

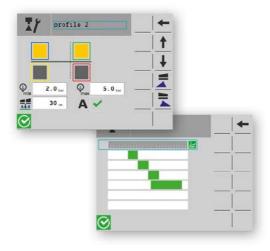
one quadruple nozzle body every 50 cm

one single nozzle body as intermediate nozzle

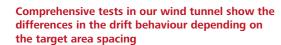
one double nozzle body as intermediate nozzle

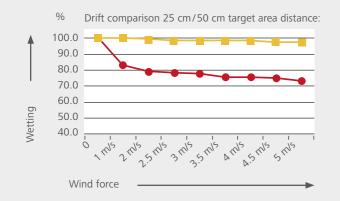
AutoSelect system

- Various possible combinations
- Switchable from the tractor cab
- Always setting the optimal pressure range and the
- matching nozzle size without having to interrupt work
 Manual control: targeted switching on or off of individual nozzles or nozzle combinations
- Fully automated AutoSelect control (optional):
 Control of nozzle size and nozzle combination while matching the spraying quantity at the same time
- Optimal distance specification management along waters and terrestrial structures
- Wide offer of nozzles from different manufacturers



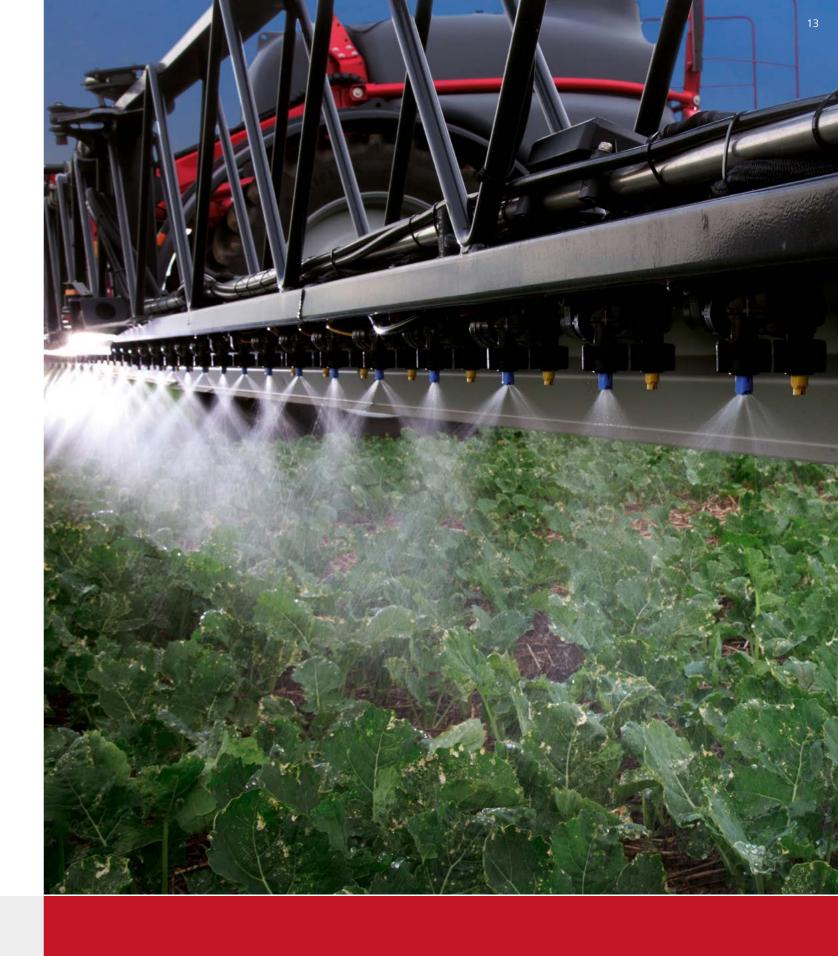
AutoSelect menu in the terminal

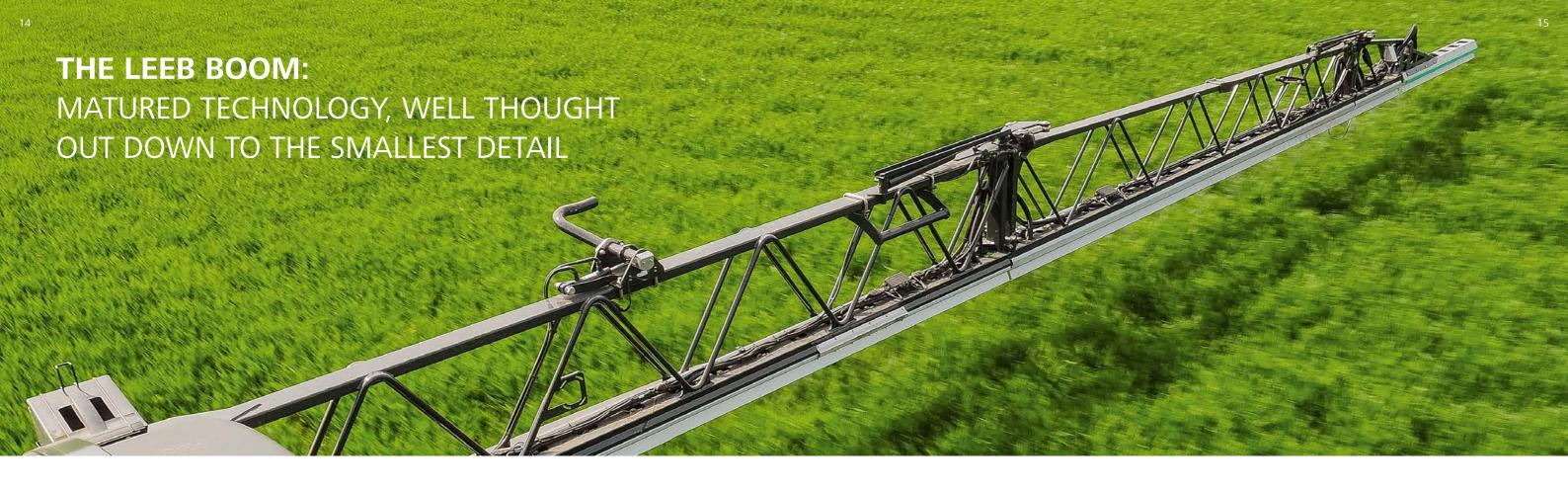




Target area spacing 25 cm, nozzle Airmix 02

Target area spacing 50 cm, nozzle Airmix 04

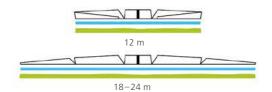




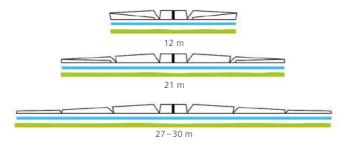
Boom variants

- Basic boom variants in working widths ranging from 18 to 42 meters
- Different folding variants enable individual solutions with respect to working widths

Boom: 5 sect. with reduced working width 12 m



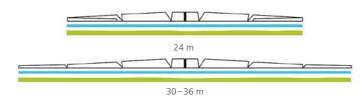
Boom: 7 sect. with reduced working width 12 m and 21 m



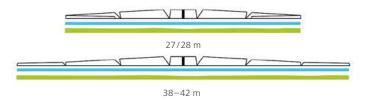
Optimal transport position by folding of boom wings

- Boom does not reach to the front towards the tractor cabin
- No damage to the cab roof
- No dripping spraying mixture at the rear of the tractor
- Transport width 2.55 m depending on tyres and track
- Transport height 3.40 m 3.55 m, depending on the tyres

Boom: 7 sect. with reduced working width 24 m



Boom: 7 sect. with reduced working width 27/28 m



Folding of the machine









NightLight: OPTIMAL SPRAYING CONTROL DURING THE NIGHT

- Innovative LED technology ensures optimal illumination
- Highly focused light penetrates all spraying cones
- Optimal spraying control also during dusk and night
- One strong LED spotlight per boom side
- 100 % control of nozzle function also in section mode
- More safety and efficiency during spraying work around the clock
- No extensive maintenance and cleaning work
- Automatic cleaning with a washing system
- LED light strip at the induction centre
- LED apron lighting













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AUTOMATIC BOOM CONTROL



BoomControl Eco

- Automatic boom control to maintain an exact, lowest possible working height even at high operational speeds in flat or slightly hilly terrain
- Safe and stable boom control below a target area height of 40 cm
- Prerequisite for minimum drift
- Boom is completely decoupled from the vehicle
- No compromise between damped and freely suspended boom
- Active adaption of the boom to the terrain by 2 sensors.
 Can be extended by 2 sensors for row crops and to increase the field of view.

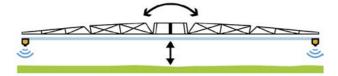
BoomControl Pro

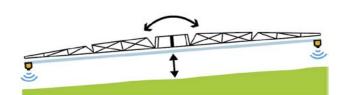
- Automatic boom control to maintain the exact, lowest possible working height even at a high operational speed and in very hilly terrain.
- Safe and stable boom control below a target area height of 40 cm
- Prerequisite for minimum drift
- Boom is completely decoupled from the vehicle

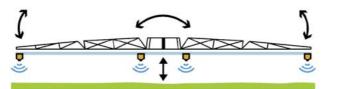
- No compromise between damped and freely suspended boom
- Active adaption of the boom via the height control of the middle section
- Adaption to the terrain due to parallel bending of the boom arms combined with a turning of the central part (controlled by 4 sensors). Can be extended by 2 sensors for row crops and to increase the field of view.

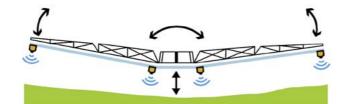
BoomControl ProPlus

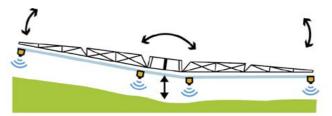
- Active adaption of the boom via the height control of the middle section
- Safe and stable boom control below a target area height of 40 cm
- Independent movement of both boom sections
- Additional independent movement (lifting and lowering) of both outside sections

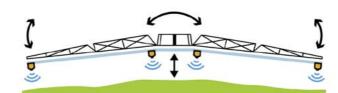


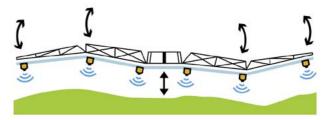












Due to the sensitive responding behaviour of the proportionate control with 6 sensors the individual boom sections adapt "smoothly" to the contours of the terrain.

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STRONG, CONVINCING ARGUMENTS

- Less drift and high working speeds due to automatic boom control due to low target area distance
- High working speeds due to hydro-pneumatic boom damping
- Continuous ground clearance
- Crop protecting, smooth underfloor design
- Large tyres up to ø 2.05 m possible
- Frame design optimised with regard to gravity centre (low centre of gravity)
- Novel operating concept

- Central arrangement of control units
- Pumping capacity up to 600 l/min
- Efficient induction hopper made of PF
- Compact external dimensions in transport position
- No parts protruding towards the tractor
- Continuous inside cleaning (CCS and CCS Pro)
- Spring-loaded axle
- Integrated overload protection in the boon





Boom middle section for working width ranging from 18 to 30 metre, optionally available with pivoted frame.



Three suspension versions are available: non-suspended, elastomer buffer and



Large clearance, high comfort and a smooth underbody.



Boom does not reach to the front towards the tractor cabin

Option:

- Fully integrated axle steering (when reversing automatic centring of the steering axle)
- Induction hopper made of stainless steel
- Induction nopper made of stainless steel
 NightLight:
- powerful LED spraying cone lighting with washing device
- Pre-field lighting: 2 LED headlights
- Lighting in the working range of the induction hopper
- SectionControl (automatic section control)
- Boundary nozzle control

- Pneumatic spring-loaded axle
- Hose drum or high-pressure cleaner for outside cleaning
- BoomControl expansion with 2 sensors
- Camera system for the area behind the machine
- Spacious container deposit facility below the right side cover
- Individual section layout according to the customer's requirements
- Second pressure filter in the rear of the parallelogram

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TECHNICAL SPECIFICATIONS

| HORSCH Leeb LT Light | 4 LT Light | 5 LT Light | |
|--|---------------------|---------------------|--|
| Measures and weights | | | |
| Unladen weight (kg) | 4 150-5 150 | 4 200-5 200 | |
| Tongue load empty (kg) | 480-780 | 500-800 | |
| Max. permissible vertical load (kg) | 2 500 | 2 500 | |
| Axle load empty (kg) | 3 670-4 370 | 3 700-4 400 | |
| Max. permissible axle load (kg) | 8 250 | 8 250 | |
| Overall length max. (transport position) (m) | 7.70 | 7.70 | |
| Transport width (transport position) (m) | 2.55 | 2.55 | |
| Transport height (m) | 3.40-3.60 | 3.40-3.60 | |
| Track widths (m) | 1.80/2.00/2.10/2.25 | 1.80/2.00/2.10/2.25 | |
| Ground clearance axle (m) | 0.75 | 0.75 | |
| Tank | | | |
| Mixture tank nominal capacity (I) | 4 000 | 5 000 | |
| Mixture tank actual capacity (I) | 4 400 | 5 300 | |
| Fresh water tank (I) | 500 | 500 | |
| Hand wash tank (l) | 15 | 15 | |
| Spraying boom | | | |
| Working widths | 18/12 5 sect. | 18/12 5 sect. | |
| | 21/12 5 sect. | 21/12 5 sect. | |
| | 24/12 5 sect. | 24/12 5 sect. | |
| | 27/21/12 7 sect. | 27/21/12 7 sect. | |
| | 28/21/12 7 sect. | 28/21/12 7 sect. | |
| | 30/21/12 7 sect. | 30/21/12 7 sect. | |
| Sections, min. max. (pieces) | 6-42 | 6-42 | |
| Working height (m) | 0.3-2.5 | 0.3-2.5 | |
| Pump output CCS and CCS Pro (I/min) | 600 | 600 | |
| Pump output Eco (l/min) | 400 | 400 | |
| Working pressure, max. (bar) | 8 | 8 | |
| Working speed (km/h) | 4-20 | 4-20 | |

| HORSCH Leeb LT | 4 LT | 5 LT | 6 LT |
|--|----------------------|----------------------|----------------------|
| Measures and weights | | | |
| Unladen weight (kg) | 4 850-5 850 (5 420*) | 4 900-5 900 (5 470*) | 4 930-5 930 (5 500*) |
| Tongue load empty (kg) | 530-830 (660*) | 550-850 (680*) | 570-870 (700*) |
| Max. permissible vertical load (kg) | 3 000 | 3 000 | 3 000 |
| Axle load empty (kg) | 4 330-5 020 (4 760*) | 4 350-5 050 (4 790*) | 4 360-5 060 (4 800*) |
| Max. permissible axle load (kg) | 10 000 | 10 000 | 10 000 |
| Overall length max. (transport position) (m) | 7.70 | 7.70 | 7.70 |
| Transport width (transport position) (m)* | 2.55* | 2.55* | 2.55* |
| Transport height (m)* | 3.40-3.60 (3.60*) | 3.40-3.60 (3.60*) | 3.40-3.60 (3.60*) |
| Track widths (m) | 1.80/2.00/2.10/2.25 | 1.80/2.00/2.10/2.25 | 2.00/2.10/2.25 |
| Ground clearance axle (m)* | 0.85* | 0.85* | 0.85* |
| Tank | | | |
| Mixture tank nominal capacity (I) | 4 000 | 5 000 | 6 000 |
| Mixture tank actual capacity (I) | 4 400 | 5 300 | 6 400 |
| Fresh water tank (I) | 500 | 500 | 500 |
| Hand wash tank (I) | 15 | 15 | 15 |
| Spraying boom | | | |
| Working widths | 18/12 5 sect. | 18/12 5 sect. | 18/12 5 sect. |
| | 21/12 5 sect. | 21/12 5 sect. | 21/12 5 sect. |
| | 24/12 5 sect. | 24/12 5 sect. | 24/12 5 sect. |
| | 27/21/12 7 sect. | 27/21/12 7 sect. | 27/21/12 7 sect. |
| | 28/21/12 7 sect. | 28/21/12 7 sect. | 28/21/12 7 sect. |
| | 30/21/12 7 sect. | 30/21/12 7 sect. | 30/21/12 7 sect. |
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| | 32/24/(12) 7 sect. | 32/24/(12) 7 sect. | 32/24/(12) 7 sect. |
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| | 40/27/(14) 7 sect. | 40/27/(14) 7 sect. | 40/27/(14) 7 sect. |
| | 40/28/(14) 7 sect. | 40/28/(14) 7 sect. | 40/28/(14) 7 sect. |
| | 42/28/(14) 7 sect. | 42/28/(14) 7 sect. | 42/28/(14) 7 sect. |
| Sections, min. max. (pieces) | 6-42 | 6-42 | 6-42 |
| Working height (m) | 0.3-2.5 | 0.3-2.5 | 0.3-2.5 |
| Pump output CCS and CCS Pro (I/min) | 600 | 600 | 600 |
| Pump output Eco (I/min) | 400 | 400 | 400 |
| Working pressure, max. (bar) | 8 | 8 | 8 |
| Working speed (km/h) | 4-20 | 4-20 | 4-20 |

^{*} Data with boom 12/21/27, 7-sect. and tyres 520/85 R 46

Indications may vary depending on the equipment.





Your distributor:

HORSCH

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