

Leeb PT

6.300/8.300

EFFICIENCY AND PRECISION



Leeb PT

EFFICIENCY AND PRECISION



Theodor Leeb

“Maximum efficiency combined with unique driving comfort and optimum performance parameters characterise our new PT line.”

The Leeb PT: SETS STANDARDS IN PLANT PROTECTION TECHNOLOGY



The clearance of up to 1.35 m in combination with the all-over underbody cover protects the plant population even in an advanced stage of vegetation, like for example to treat the rape blossoms.

To achieve more in a shorter time with less machines – due to this strategy companies today manage to work successfully and to remain competitive. As a manufacturer of plant production technology it is our objective to support the farmers with efficient and precise technology.

Our engineers work hard to find the appropriate solutions for the special requirements on application technology in the plant protection sector and to design an efficient and flexible machine for a wide range of use.

The result is a new generation of the Leeb PT that combines driving comfort, performance and maximum application efficiency. The new PT leaves nothing to be desired and offer even more possibilities than before: more clearance, more driving comfort, more climbing power, a wider selection with regard to the working width. In short: The PT offers almost infinite variability for highest requirements on technology and on driving experience.



Automatic level regulation: every tyre is spring-loaded and balanced in an hydro-pneumatic way.

Large tyres – optimised ground pressure

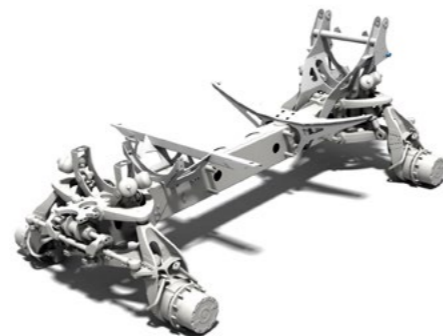
- Four equally sized tyres with a diameter of up to 2.18 m and a width of up to 71 cm guarantee maximum contact area with an adapted air pressure.
- Optimum traction even in difficult conditions
- Traction control system (TCS) for optimum traction control

Excellent manoeuvrability

- Excellent manoeuvrability due to standard all-wheel steering
- The central tube frame allows for a turning radius of only 3 m.

Low maintenance

- No greasing spots at the whole basic machine as only maintenance-free bearing are used.



Chassis ComfortDrive: comfortable due to individual wheel suspension; light and stable due to straight design

ComfortDrive chassis

- The front cabin on the central tube frame and the boom in parallelogram suspension guarantee an optimum weight distribution – on the road and in the field.
- The arrangement allows for enough space for a tank capacity of up to 8 000 liter and a constantly high driving stability with an optimum weight distribution of 50:50.
- At the standard chassis ComfortDrive every tyre is mounted individually at a double control arm suspension. Thus, the driving comfort is similar to the one of a car.
- The hydropneumatic single wheel suspension adapts automatically to the ground in a levelling way. This guarantees an extremely comfortable driving experience and the BoomControl is supported positively.
- Due to the smooth driving characteristics, the boom control system easily manages to keep the balance even at higher speeds.
- The flexible clearance of up to 1.35 m (depending on the tyres) allows for protecting the plants while working even in high populations.

Automotive drive control

- Automotive drive control with standard equipment:
 - Maximum load control
 - Overspeed control
 - Driving with reduced motor speed
 - Speed control
 - Headland management
- The hardness of the suspension set-up is automatically adapted when changing from road to field mode.
- The driving strategy can either be determined with the accelerator pedal or with the control lever. For changing you do not have to switch.

New motor

- According to the current EU emission standard Tier 5
- 6.7 liter six-cylinder FPT engine
- Turbo motor with charge air cooling
- The Common-Rail system convinces with an impressive performance of max. 230 kW/310 hp.
- Maximum torque of 1 160 Nm as of 1 500 rpm
- 40 resp. 50 km/h on the road with 1 500 rpm
- In field mode when the boom is folded in up to 25 km/h and up to 32 km/h when the boom is folded out at 1 300 rpm and load-dependent adaption

PowerGear wheels gears with intelligent drive

- Infinitely variable from 0–50 km/h
- The efficiency factor in the main working range has been specially optimised for the use in the plant protection sector
- Intelligent all-wheel drive: dynamically distributed drive torque – powerful and efficient
- Selective traction control for every tyre
- Due to larger wheel motors at the rear axle and the corresponding higher driving power, the PT easily manages any terrain.
- Two gear box versions, depending on the field of application:
 - PowerGear with powerful drive even at steep slopes
 - HighPowerGear for more torque at the wheel and highest requirements in the field



HighPowerGear in combination with the active boom control system BoomControl and the optimum weight distribution allows for crop care even in most difficult conditions.

HighPowerGear

- Approx. 50% incline
- HighPowerGear shows its strength especially with low operational speed and extreme inclines.
- When driving slowly below approx. 8 km/h or if the machine is on the verge of getting stuck, HighPowerGear provides the required power reserves to manage the most difficult situations.

Leeb PT

DETAILS

Leeb PT details

- 6 000 liter tank made of polyethylene or 8 000 liter tank made of stainless steel
- Optimised weight distribution due to the arrangement at the central tube frame with individual wheel suspension, front cabin and parallelogram suspension of the boom
- Automatic level regulation of the chassis with a clearance of up to 1.35 m
- Automotive drive control
- Optimised hose laying reduces hose lengths to a minimum
- Boom suspension has been designed as a parallelogram suspension – spring-loaded and damped hydraulically.
- Soft and smooth boom position even in hilly terrain and at a high operational speed
- 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 warp resistant and thus ideal for the automatic boom control systems Leeb BoomControl.
- Nozzle protection against mechanical damage of the nozzles and wind protection when a spraying fan develops

High-efficiency hydraulic system

- The core of the Load Sensing system is a powerful axial piston pump with an operating pressure of 210 bar.
- A pump capacity of 320 liter allows for carrying out all tasks easily.



COMFORT, SAFETY AND FUNCTIONALITY

Comfort cabin

- Comfort and functionality are important characteristics of the new HORSCH Leeb PT: A lot of features like the individual wheel suspension, seat and armrest suspension, driving dynamics and the large cabin interior guarantee a new dimension of driving experience.
- The spacious cabin offers an optimum view on the machine and the population and the inside leaves nothing to be desired.
- A premium comfort seat: active vibration damping, seat heating and seat ventilation guarantee the driver a luxury driving experience.
- Due to the excellent insulation, dust and noise remain outside.
- A powerful automatic air-conditioning with heating guarantees a comfortable indoor climate.
- Cabin filter Cat. IV to protect the user from dust, aerosols and steam
- Heatable power mirrors
- The height and the inclination of the steering column can be adjusted.
- The display for the vehicle functions and the speedometer are located at the A column.
- The ISOBUS terminal for the spraying function is integrated in the armrest.
- The ErgoControl armrest can be adjusted in height and in length and is equipped with integrated ergonomic control elements and a joystick.
- Passenger seat as well as numerous compartments and cooling compartment
- DAB radio with bluetooth interface
- Sunblinds

Optimum working conditions at night

- Four working lights are mounted on the cabin roof as a standard.
- Four working lights incl. TrackFinder are available additionally.

There are sufficient storage compartment everywhere on and in the cabin of the PT

- Dust- and splash-proof boxes are integrated at the control centre and at the diesel tank.
- A storage compartment for for example tools is located below the cabin.

Cabin comfort package (optional)

- Mobile phone holder and cupholder
- Velours floor mat and footrest at the steering column
- Sun protection blind at the doors at the left and at the right



OUR STANDARD: NO HOSE IS THE BEST HOSE.

Distribution system

- Optimal supply of boom, induction hopper, 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

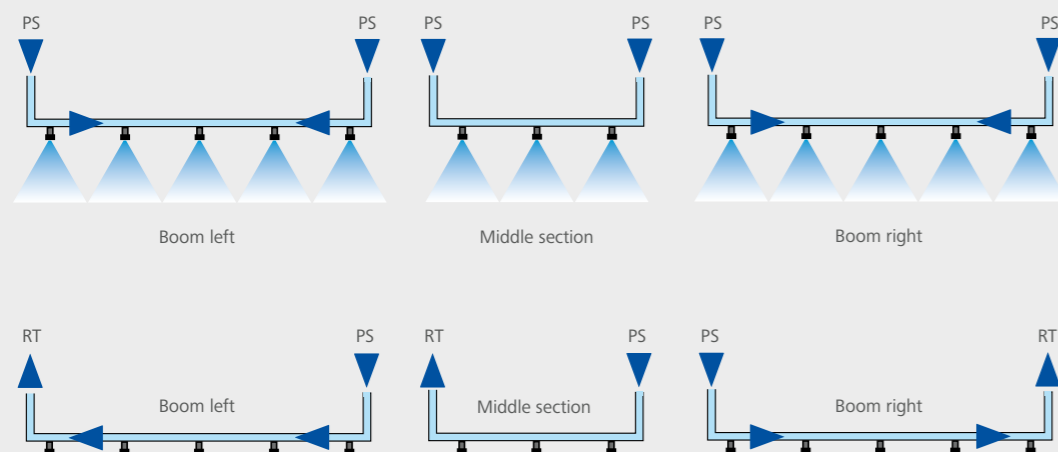
Induction hopper

- Powerful injector filling
- Swivelling induction hopper with gas shock absorber and a stainless steel bowl
- Operation with coloured levers
- Upper and lower rinsing nozzles guarantee a whirl-like circulation for quick flushing-in of liquids and are also suitable for granulate.
- 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 is therefore always at the nozzle, even with the spraying apparatus is switched off.
- When switching on the sections or the whole spraying line for the first time, the mixed chemical solution is immediately available
- 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.

Circulation system



Sprayers

PS = Pressure Supply

Circulation

PS = Pressure Supply,
RT = Return flow tank



LEEB PT EQUIPMENT LINE

CCS PRO

CCS Pro cleaning programs

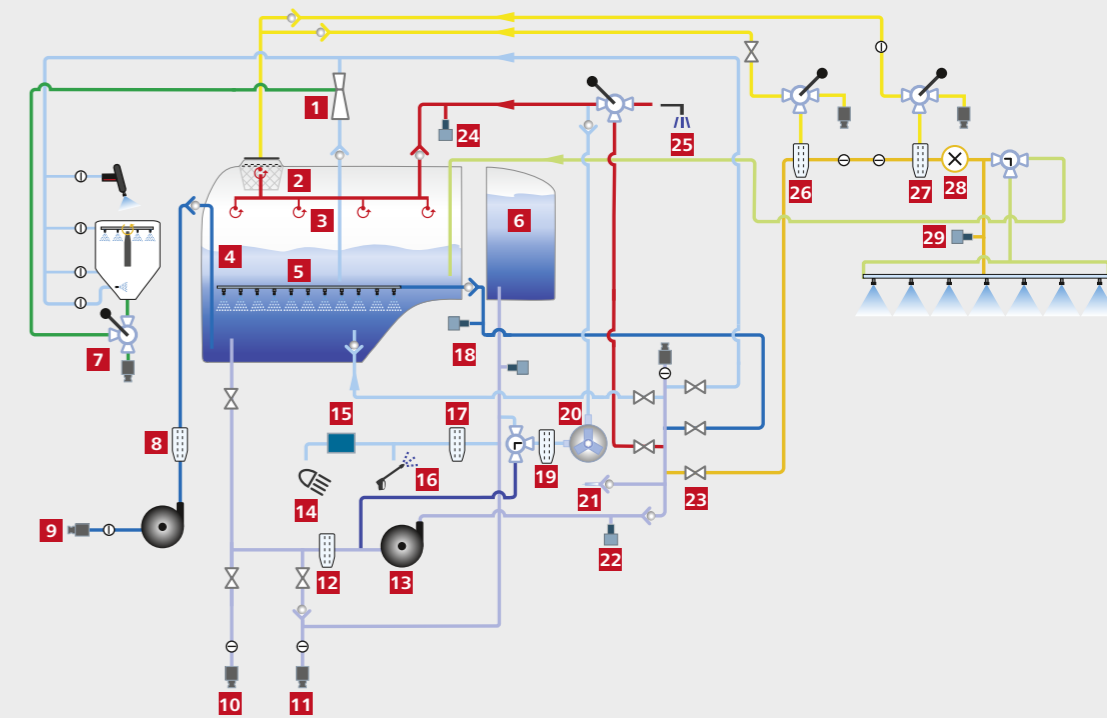
- Several selectable cleaning programs can be started simply and comfortably by pressing a button in the cabin:

 1. **Complete cleaning:** Rinses injector line via the filter to the boom completely with fresh water and then continues with the continuous inside cleaning (CCS) for mixture tank and boom.
 2. **Dilution:** Dilute the spraying mixture in the desired ratio without much effort
 3. **Intensive washing program:** For a particularly thorough cleaning – recommended for example when changing between critical crops
 4. **Boom cleaning:** Automatic rinsing of the boom – e. g. when the work is interrupted for several hours
 5. **Background cleaning:** Intelligent, continuous inside cleaning that cleans the inside wall of the tank with fresh water while spraying. This prevents deposits at the barrel wall.

 - Due to the standard automatic two filling limits the filling procedure is rather relaxed
 - Agitator works and switches off automatically depending on the filling level

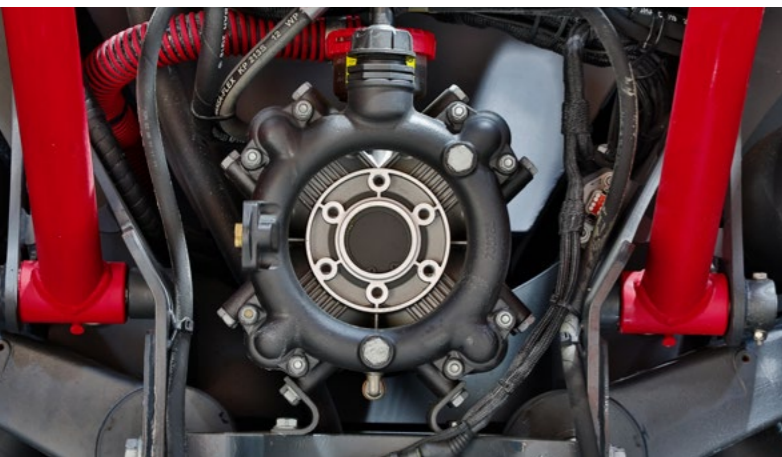
CCS Pro

- 1 Injector
- 2 Filter basket
- 3 Internal cleaning
- 4 Wash container
- 5 Agitator
- 6 Fresh water tank
- 7 Filling valve
- 8 Filter
- 9 Direct filling
- 10 Suction filling
- 11 Filling fresh water
- 12 Suction filter
- 13 Centrifugal pump
- 14 NightLight cleaning
- 15 Electric pump
- 16 High-pressure cleaner
- 17 Fresh water filter
- 18 Pressure sensor
- 19 Filter
- 20 Piston diaphragm pump
- 21 Exhaust function
- 22 Pressure sensor
- 23 Electr. switch unit
- 24 Pressure sensor
- 25 External cleaning
- 26 1. Pressure filter
- 27 2. Pressure filter
- 28 Flow meter
- 29 Pressure sensor

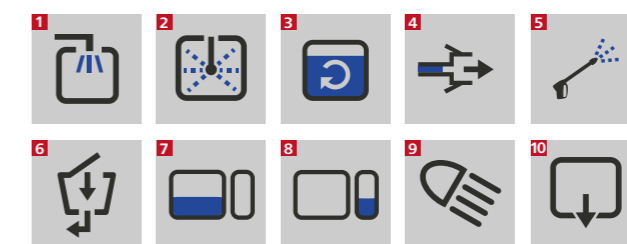


Water system CCS Pro

- High efficiency – short filling time: rotary pump made of stainless steel with 1 000 l/min
- CCS piston diaphragm pump for continuous inside cleaning
- Pressure regulation vis pump speed
- Energy-saving: pump only conveys the amount of liquid that is required for spraying plus the defined quantity for the agitator.
- Filling connection 3", as of 5-way valve 2" lines on the suction side
- Pressure sensors for pump, agitator, inside cleaning and boom
- Continuous inside cleaning CCS with different cleaning and rinsing programs, can be operated in the cabin
- Operated by large external control terminal with all important functions for jetting
- Electric level indicator in the fresh water and mixture tank for automatic washing programs and automatic switchoff.



External control terminal Symbols external control terminal CCS Pro



- 1 Filling process
- 2 Internal cleaning
- 3 Pressure agitator
- 4 Suction
- 5 Outside cleaning
- 6 Activation induction hopper
- 7 Wash container
- 8 Clear water tank
- 9 Lighting induction centre
- 10 Draining of residues

INTELLIGENCE

INTELLIGENT SOLUTIONS FOR EVEN MORE PRECISION

The machines of the future communicate actively and **HORSCH Intelligence** allows for it. With intelligent software and electronic solutions HORSCH machines work even more efficiently and help you to save money and nerves. Saving of operating resources, constant work quality, relieving the workload of the driver – you, too, can benefit from our ISOBUS licenses.

Terminals – you can choose between

- Terminal Touch 1200 including ISOBUS-TC, Track Leader II and SectionControl
- Terminal Trimble GFX 750 with Trimble Nav 900 receiver
- It is also possible to use different external terminals (not ex factory).

Control centre

- Comfortable external control terminal for all necessary functions
- Distinct symbols mark the suction side, the four pressure outlets as well as the filling (see p.10).
- Several functions can be controlled at the same time, e.g. filling sluice and intensive agitator
- User-friendly surface of the induction tank
- Even more comfort: all essential functions like "Fresh water switching" or "Inside cleaning" can be controlled from the cabin.
- The level is measured electrically, and the system switches off automatically as soon as the pre-selected level has been reached.



Parallel Tracking

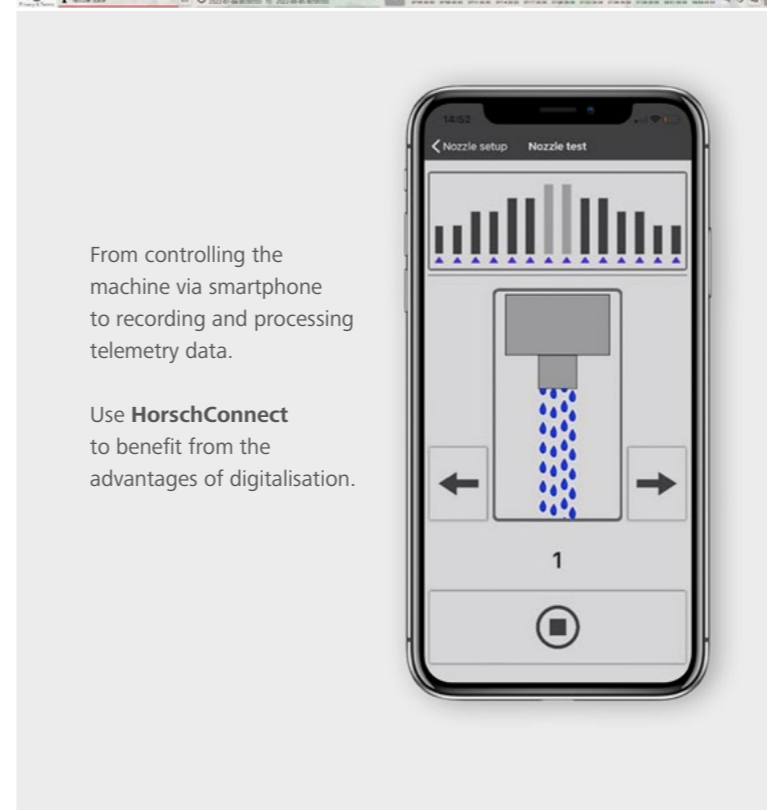
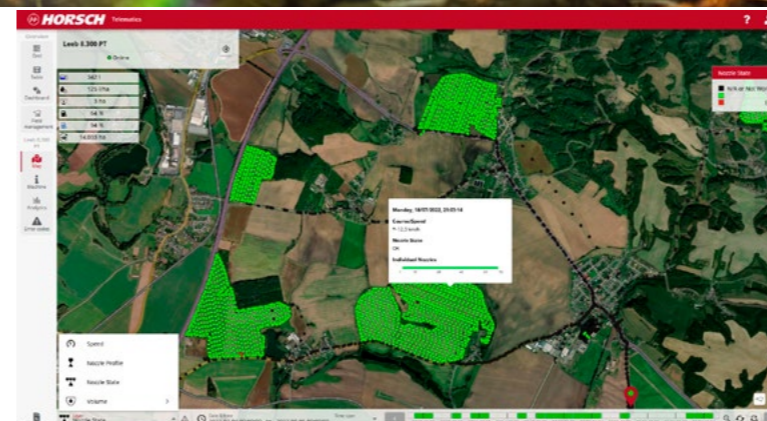
- Uses corrected GPS signals
- Identifies position of the machine and shows this information on the display
- Laying of a track system by means of an AB line that supports the driver with regard to finding the track
- Recommended for pre-emergence treatments without track markings

GPS-controlled SectionControl

- Savings potentials: Due to less overlaps on the headlands the savings on agents amount to up to 3 %.
- A division into up to 42 sections is possible.

Order management

- Order management and the use of application maps via ISO XML files are possible



HorschConnect

DIGITALISATION MADE EASY

For more comfort and flexibility: the new MobileControl app

In the future, the **MobileControl** app allows for activating selected machine functions comfortably and intuitively via the smartphone. For example, a functional test of all nozzles can be carried out for the individual sections. To do so, the smartphone (Apple or Android) is simply connected with the local WLAN of the machine. Machine information and messages, too, can be read out via MobileControl.

Saves time and nerves: HorschConnect Telematics

Via the **HorschConnect Telematics Portal** you can always keep track of your machine. In addition to the current position, speed and application rate you can, of course, review data of past orders. Smart dashboards, the remote monitoring of the nozzle function and nozzle configuration as well as the overview of all washing programs and their status complete the concept. An additional benefit: Remote diagnostics of machine messages via HorschConnect Telematics reduces idle times and increases efficiency.

As an option, you can integrate a weather station in your machine and review for example the current temperature, wind direction and speed at the terminal respectively in the telemetry portal. Thus, you can any time adapt your measure to the prevailing local weather conditions.

Your documentation is automated – transparent, simple and safe. To make sure you can concentrate on the essential at any time.



Terminal Touch 1200 with preparation for Trimble steering



Control via external terminal



Wide selection of steering preparations for external terminals

MEMBER OF



No more multiple maintenance and redundant information – a solution is only as good as its interfaces: carry out your data exchange between the platforms of different manufacturers in a simple and automated way. With the agrirouter you can manage this in an uncomplicated and safe way. And what is most important: you keep complete control of your data.



INTELLIGENCE

AutoSteering

- In addition, the Leeb PT can be equipped with an automatic steering.
- A mounted and configured Trimble steering system incl. a GPS receiver is available ex factory and can comfortably be controlled by means of the ErgoControl armrest.
- Free CAN-bus interfaces are available for different automatic steering systems

Vehicle display

- In the vehicle display all of the important chassis data are clearly arranged, e.g. speedometer, suspension position and steering angle, outside temperature, diesel level etc.
- The display details automatically change between field and road mode.
- Important functions like cruise control, spring position and steering are adjusted by simply navigating with a modern push-turn control knob and are shown in the display.
- The key assignment on the joystick of the ErgoControl armrest can easily be adapted and individualised.
- The intensity of the filter for the Cat. IV filtering can be adjusted in the submenu Cabin Filter
- The settings for the headland management can also be adapted in the vehicle display in the a-column.

The ErgoControl joystick – a control lever for all important functions

- Ergonomic control lever with integrated buttons to control the most important spraying functions and to activate cruise control and the headland management
- Softbuttons the functions of which can quite simply be selected via the vehicle display
- Intuitive driving with the joystick at the ErgoControl armrest:
 - Increase speed: push control lever towards the set direction of travel
 - Reduce speed: push control lever towards the opposite direction of travel
 - Reverse: push control lever to the left
 - Headland management on/off: push control lever to the right
- This is a unique feature among self-propelled sprayers: changing between accelerator pedal and joystick without switching – practical and intuitive!

On the joystick

- Sprayer main switch
- Switch sections on/off
- BoomControl on/off
- Lift/lower boom
- Adjust boom-slope compensation
- Cruise control selection
- GPS steering on/off
- Softbuttons

On the armrest

- Rear axle steering on/off
- Manual rear axle steering
- Automatic slope control
- Optimised suspension on slopes
- Ladder up/down
- Transport position of the chassis (suspension strut moves to lowest position)
- Bend boom
- Softbuttons



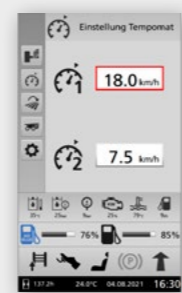
Unique ErgoControl joystick with background lighting



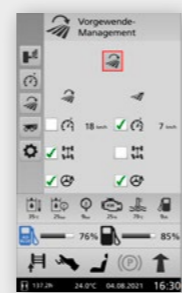
The function of softkeys on the joystick of the ErgoControl can easily be selected via the vehicle display



Adjustment options for cabin filter Cat. IV: automatic or manual mode with adjustment to the required intensity



2 cruise control modes can be saved with a precision of 0.1 km/h



Headland management



Simple navigation in the vehicle display with a push-turn control knob



ErgoControl joystick



ErgoControl armrest

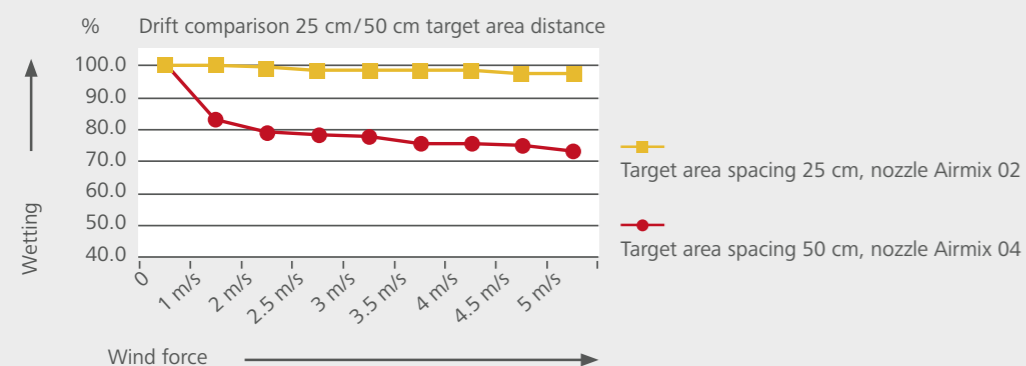
MAXIMUM OUTPUT

DUE TO INTELLIGENT APPLICATION TECHNOLOGY

Power by diversity

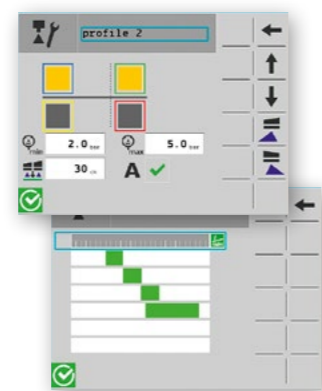
- Efficiency by variety – nozzle spacings of 25 and 50 cm are available
- With a 25 cm nozzle spacing the target area distance is reduced to an optimum
- Pneumatic individual nozzle control enables individual and intelligent application technologies
- Outstanding penetration and wetting of the crop
- 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, one 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 single nozzle body as intermediate nozzle
 - 4-2 one quadruple nozzle body every 50 cm one double nozzle body as intermediate nozzle
- As a standard, all nozzle body combinations are equipped with nozzle holders for edge/border nozzles.

Comprehensive tests in our wind tunnel show the differences in the drift behaviour depending on the target area spacing.

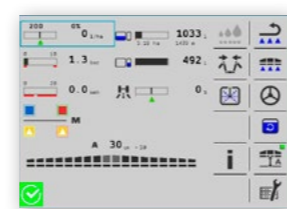


AutoSelect System

- Various combination possibilities with up to 16 different nozzle profiles that can be saved
- Can be switched on or off from the cabin
- If the work is not interrupted, the optimum pressure range and the corresponding nozzle size are controlled automatically continuously.
- Automatic adaption of the boom height depending on the defined nozzle profiles based on the nozzle spacings that are defined in the nozzles profiles. Thus, with more nozzles the farmer has a wide range of options.
- Fully automatic AutoSelect control: Controls the nozzle size or nozzle combination while at the same time adapting the application rate
- High comfort and safety for an optimum management of the distance requirements along waters and terrestrial structures



AutoSelect menu in the terminal



Clearly arranged user interface in the ISOBUS terminal





PRECISIONSPRAY

PULSE WIDTH MODULATION

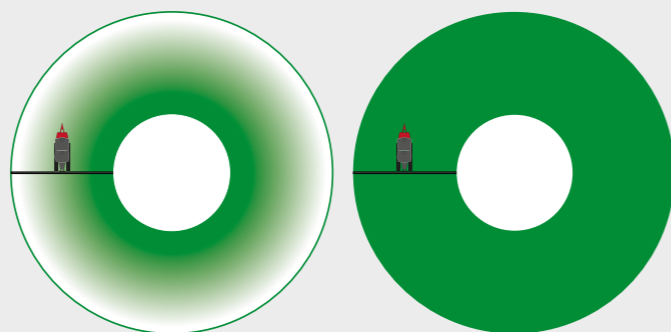
STATE-OF-THE-ART APPLICATION TECHNOLOGY

- Infinitely variable adaption of the volume flow with constant pressure and drop size
- Constant drop spectrum when using one nozzle
- Lower number of different nozzle calibres required
- Adaption of the application rate without changing the spraying characteristics
- Curve compensation
- Large nozzle bodies that are less prone to cloggings



WITHOUT curve compensation

WITH curve compensation



Overdosage and underdosing can actively be avoided by means of curve compensation resulting in an active resistance management and regular populations.

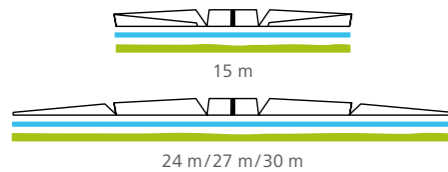
THE LEEB BOOM: MATURED TECHNOLOGY, WELL THOUGHT OUT DOWN TO THE SMALLEST DETAIL



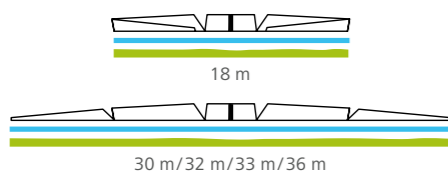
Boom versions

- Basic boom versions in working width from 24 to 45 meter
- The appropriate boom for any farm structure: different folding versions allow for individual solutions with regard to the working width.

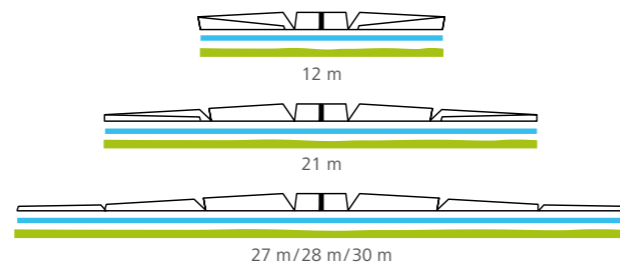
Boom: 5 sect. with reduced working width 15 m



Boom: 5 sect. with reduced working width 18 m



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



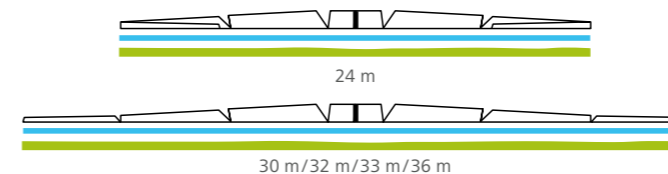
Advantages of the boom line

- Weight-optimised, stable design
- A stable alu profile protects the nozzles, nozzle bodies and lines against damages
- Overload protection and damping of the wings: anti-collision protection – overload protection of the wings backwards – damping of the inside wings forwards and backwards
- Well-proven parallelogram suspension

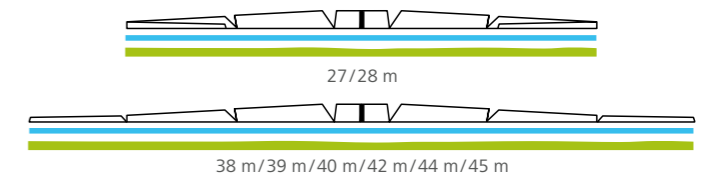
Patented suspension concept

- The patented suspension with active pneumatic control of the middle section prevents boom diving during cornering at the headland
- **BoomControl**: Extremely smooth boom position even in very hilly terrain and at a high operational speed

Boom: 7 sect. with reduced working width 24 m



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



Folding of the machine



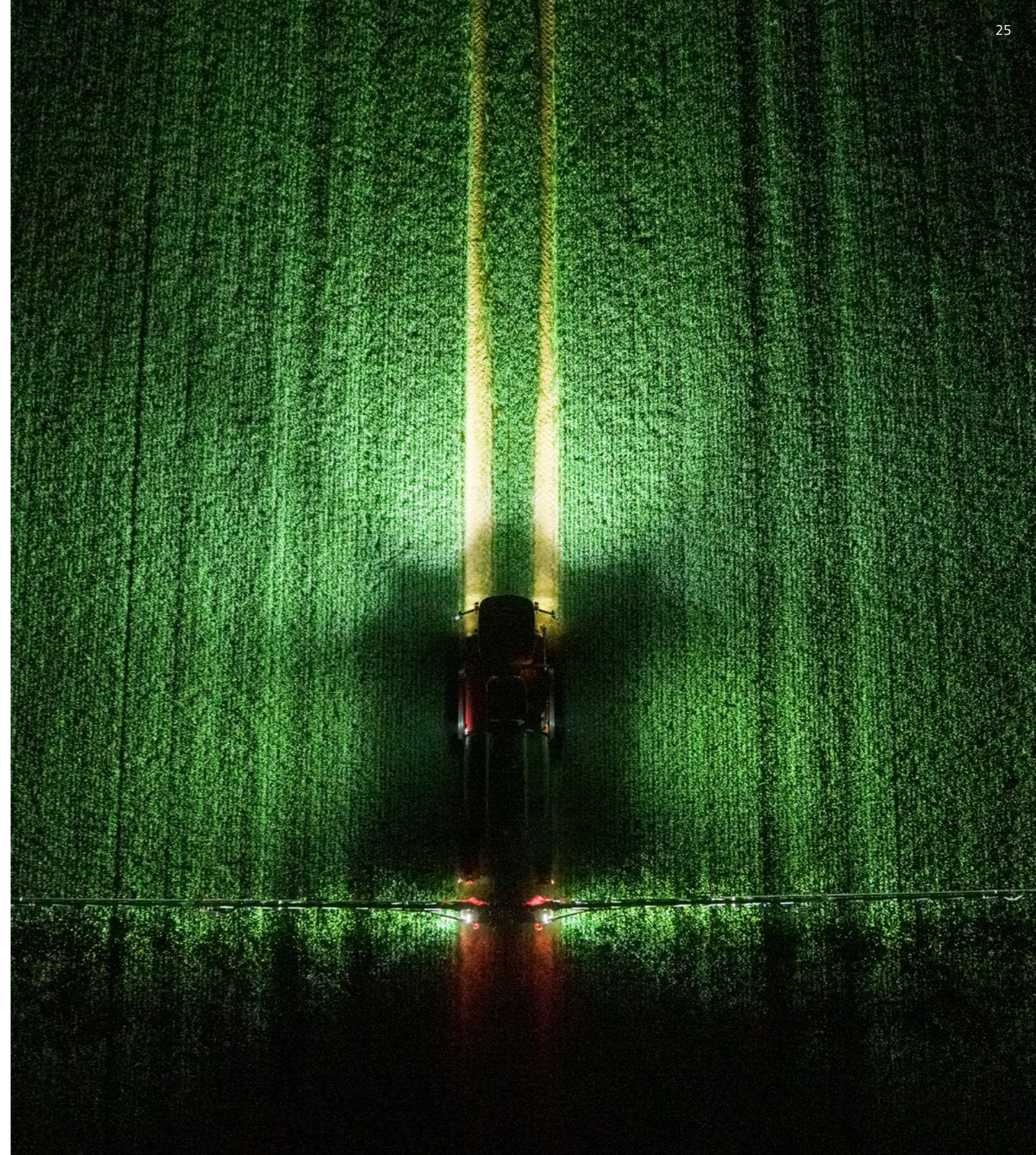
LED lighting: OPTIMAL SPRAYING CONTROL DURING THE NIGHT

NightLight

- 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 half-section mode
- More safety and efficiency during spraying work around the clock
- No extensive maintenance and cleaning work
- Automatic cleaning with a washing system
- Automatic light function: Deactivation of NightLight on the headlands to avoid blinding for example passers-by

Additional lighting

- LED light strip at the induction centre
- LED apron lighting

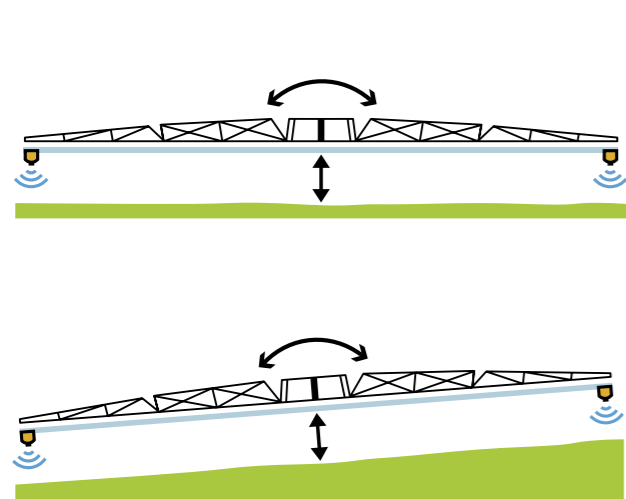


AUTOMATIC BOOMCONTROL



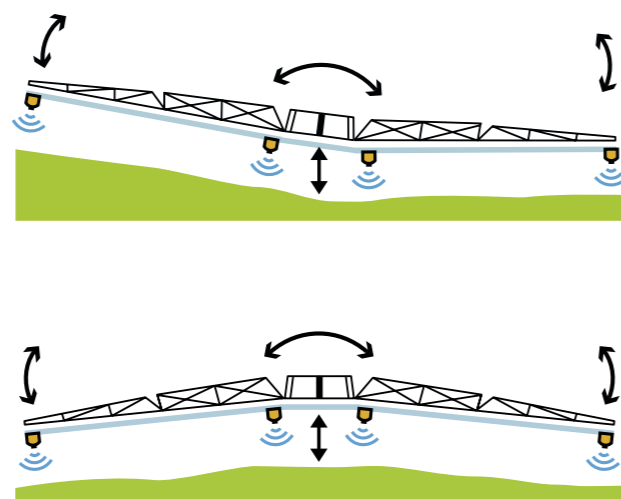
BoomControl

- Automatic BoomControl to maintain an exact, lowest possible working height even at high operational speeds in flat or slightly hilly terrain
- Safe and stable BoomControl 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 due to 2 sensors



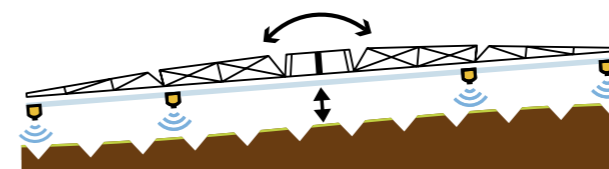
BoomControl Pro

- Automatic BoomControl to maintain the exact, lowest possible working height even at a high operational speed and in very hilly terrain
- Safe and stable BoomControl 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 boom adjustment via the height control of the central part
- Adaption to the terrain by parallel angling of the boom arms in combination with a turning of the middle section (control via 4 sensors)



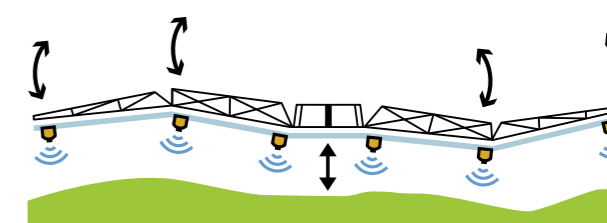
BoomControl extension

- Active adaption of the boom to the terrain due to two additional sensors
- To increase the field of vision, also ideal for row and ridge crops

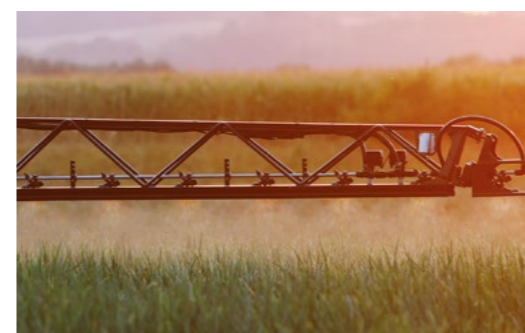


BoomControl ProPlus

- Active boom adjustment via the height control of the central part
- Safe and stable BoomControl even below 40 cm
- Independent bending of both boom arms
- Additional independent bending (lifting and lowering) of both outside wings



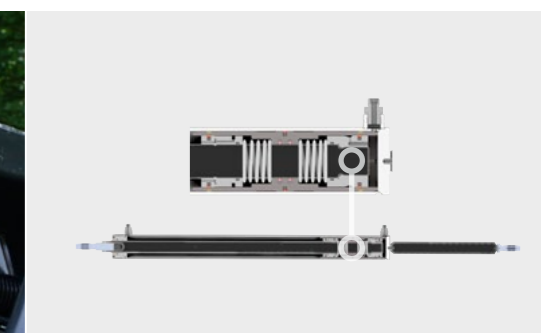
Due to the sensitive responding behaviour of the proportionate control with 6 sensors the individual boom sections adapt "smoothly" to the contours of the terrain.



BoomControl – automatic height control via ultrasonic sensors



Extension by another pair of ultrasonic sensors



MotionControl to dampen the horizontal movements in the boom wings

STRONG, CONVINCING ARGUMENTS

- Extremely comfortable chassis ComfortDrive: hydropneumatic individual wheel suspension with active level regulation
- Stable chassis in light-weight design due to central tube frame
- High, all-over clearance up to 1.35 m in field mode
- Infinitely variable, hydrostatic single wheel drive and automotive driving
- 6.7 liter six-cylinder FPT engine with 310 hp
- Economic driving due to intelligent drive control
- Top speed on the road up to 50 km/h
- Operational speed up to 32 km/h
- Various steering versions are standard
- Minimised slip and soil pressure due to very large tyre diameter of up to 2.18 m
- 6 000 liter tank made of polyethylene or 8 000 liter tank made of stainless steel

- Well-proven boom construction up to 45 m
- Well-known HORSCH Leeb BoomControl boom control system
- Optimum boom position even at high operational speeds due to individual wheel suspension and parallel suspension of the boom
- Practical control terminals and an ergonomic joystick for an intuitive handling, perfectly adapted to the application requirements
- Continuous inside cleaning CCS Pro with electrical valves and external control terminal; spraying and cleaning functions can be controlled in the cabin
- Automatic GPS-controlled section control system SectionControl
- Up to 42 section with individual layout
- Innovations like PrecisionSpray



Underbody cover and fairing of the wheel motors protect the population



Large tyres with a diameter of up to 2.18 m



Several spacious storage compartments



Easy-to-clean 8 000 liter stainless steel mixture tank with integrated baffle

Option

- Camera system with monitor as a rearview camera and to control the spraying nozzles at the middle section of the boom
- LED headlights for boom apron lighting
- LED working lights on cabin roof incl. TrackFinder and cornering light
- NightLight for nozzle cone lighting incl. cleaning
- Rotating signal lights
- Splash guard tarpaulins at the boom behind the wheels
- Exhaust function for residual quantity
- Induction hopper made of stainless steel
- Outside cleaning
- Wind gauge
- Drag hose system
- Cat. IV filter system for cabin
- Safety kit with reflective vest, warning light and first-aid-kit
- Fire extinguisher
- Support for N sensor
- PrecisionSpray
- Cabin comfort package

TECHNICAL SPECIFICATIONS

HORSCH Leeb	6.300 PT	8.300 PT
Motor		
Water-cooled motor	FPT (Fiat Powertrain Technologies) N67	
Power (kW/HP)	230/310	
Number of cylinders/cooling	6/water/turbo with intercooler	
Displacement (cm ³)	6 700	
Nominal speed (rpm)	2 000	
Max. torque (Nm/speed)	1 160/1 500	
Control	Elektronik EMR	
Tank capacity Diesel/AdBlue (l)	450/45	
Emission standard	Tier 5	
Gearbox		
Gearbox type	Wheel hub drive	
Working range	Field/road	
Transmission	Hydrostatic stepless	
Speeds	Field: 0–25 km/h with boom folded in, 0–32 km/h with boom folded out; road: 0–40 km/h/optional 0–50 km/h; maximum speed at 1 500 rpm respectively	
All wheel drive	Permanent, rear axle swith-off in road mode beyond 30 km/h	
Chassis		
Chassis suspension	Suspension via double control arm and portal	
Axle suspension	Hydropneumatic suspension with active level regulation, automatic switching between soft and hard suspension set-up when changing between field and road mode	
Underbody	Continuously smooth, plant protecting vehicle underside	
Steering		
Front axle	Hydraulic	
Rear axle	Hydraulic-electric steering, automatic centring and locking during road transport	
Types of steering	Only front axle steering (road mode), all-wheel steering (field mode), automatic slope steering, manual rear axle steering also possible	
Brake system		
Service brake	Hydrostatic high-performance brake, front axle with integrated, wet multi-disc brake	
Parking brake	Multiple disc brake, operated hydraulically via spring accumulator	
Hydraulic system		
Traction drive pump (cm ³)	175	
Working hydraulics pump (cm ³)	160	
Power (l/min)	320	
Working pressure (bar)	200	
Electric system		
Voltage (V)	12	
Alternator (V/A)	14/200	
Battery (Ah/A)	180/1 000	
Wiring	CAN-Bus/ISOBUS	
Interface to superstructure	ISOBUS with voltage supply	
Travel control		
Electronic travel control		
Load-limit control		
Over revving control		
Cruise control function		
Automotive driving via accelerator pedal or control lever (speed via pedal or joystick; motor speed and hydrostat regulate themselves automatically)		
Barrel mountings		
Mixture tank	Polyethylene (PE)	Stainless steel
Mixture tank nominal capacity (l)	6 000	8 000
Mixture tank actual capacity (l)	6 350	8 450
Fresh water tank made of PE (l)	550	550
Hand-wash tank (l)	15	15



HORSCH Leeb	6.300 PT	8.300 PT
Cab		
Front cabin with an interior volume of 3.5 m ³ and a glass surface of 7.0 m ²		
Automatic climate control/heating		
Comfort seat with air suspension, vibration damping and seat ventilation		
Passenger seat		
Numerous compartments and a cooling compartment		
Control lever is integrated in the ergonomic control armrest		
DAB radio with bluetooth interface		
Display field in A column for vehicle functions and speedometer		
ISOBUS terminal for spraying functions is integrated in the control armrest		
Optional: Automatic Cat. IV cabin filter system		
Standard tyres (other tyres upon request)		
VF 520/85 R46		
Measures and weights		
Unladen weight (kg)	approx. 11 500 (depending on the equipment)	
Max. allowed total weight (kg)	Wheel drive PowerGear 18 000 kg/Wheel drive HighPowerGear 20 000 kg (depending on track width and tyres)	
Max. total weight field (kg)	24 000 (depending on track width and tyres)	
Ground clearance (mm)	approx. 1 350 (depending on track width and tyres)	
Wheel base (mm)	3 900	
Track width (mm)	2 000/2 250	
Length (mm)	approx. 9 800 (depending on track width and tyres)	
Height (mm)	3 980 (in road position)	
Total width (mm)	2 550 (applies to Leeb 6 PT; Leeb 8 PT approx. as of 2 700, tyres and mudguards may be wider)	
Spraying boom		
Working widths	24/15 5 sect. 27/15 5 sect. 30/15 5 sect. 30/18 5 sect. 32/18 5 sect. 33/18 5 sect. 36/18 5 sect. 27/21/12 7 sect. 28/21/12 7 sect. 30/21/12 7 sect. 30/24/(12) 7 sect. 32/24/(12) 7 sect. 33/24/(12) 7 sect. 36/24/(12) 7 sect. 38/27/(14) 7 sect. 39/27/(14) 7 sect. 40/28/(14) 7 sect. 42/28/(14) 7 sect. 44/30/(16) 7 sect. 45/32/(16) 7 sect.	
Section, min./max. (piece)	6–42	
Working height (m)	0.30–2.50 (depending on the selected tyres)	
Pump output (l/min)	1 000	
Max. emission quantity at the boom (l/min)	350*	
Working pressure, max. (bar)	8	
Operational speed (km/h)	4–20	

* The indicated application rates apply to water with a spraying pressure of approx. 5 bar. With other pressures the application rates may differ upward and downward.



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