

# Leeb AX

# HORSCH

*Farming with passion*

SIMPLE – SAFE – PRECISE





# The Leeb AX: CONSEQUENT EFFICIENCY



## The basis

- Solidly designed frame made of fine-grained steel
- Solid drawbar linkage
- Upper or lower linkage can be selected freely by turning the drawbar

## Drawbar steering – less track damages (optional)

- Drawbar steering with exact following in the tracks due to proportionate-hydraulic control and thus smooth boom position.
- High manoeuvrability and large steering angle

## Large tyres – less ground pressure

- Wheels with diameter of up to 1.85 m
- Maximum contact area with perfectly adapted air pressure

## Unparalleled BoomControl system

- Hydraulically spring-loaded and damped parallelogram suspension
- Soft and smooth boom position even in hilly terrain and at high speeds.

## Modern plastic tank

- Compact tank design with extremely low centre of gravity
- Conical geometries for low surge forces
- 400 litre fresh water tank: enough water for a complete inside cleaning
- 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.

## Two equipment versions:

### Eco

- Manual operation for the suction and pressure side
- Piston diaphragm pump (270 l/min) driven by pto-shaft
- Hydraulic agitator

### Eco ProfiClean System

- Manual operation for the suction and pressure side
- Controlled from the cabin for a continuous inside cleaning
- Piston diaphragm pump (270 l/min) driven by pto-shaft
- Additional hydraulic rotary pump
- Hydraulic agitator



### Theodor Leeb:

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





# Leeb AX

## DETAILS

### Leeb AX details

- Barrel capacity: 3 800 litre
- Barrel made of polyethylene (PE)
- Low gravity centre of the spraying barrel
- Optimised tank shape for transport and cleaning
- Optimised hose laying reduces hose lengths to a minimum
- Upper or lower linkage can be selected freely as it can be changed by turning the drawbar
- Boom suspension in a parallelogram – hydraulically spring-loaded and damped
- Soft and smooth boom position even in hilly terrain and at high speeds
- The geometry of the parallelogram has been designed in such a way that the boom is kept close to the axle. Despite its light design, the suspension is extremely torsion-resistant and thus perfectly suitable for the automatic boom controlsystem Leeb BoomControl.
- Nozzles are protected against wind and mechanical damages





## OUR STANDARD: NO HOSE IS THE BEST HOSE.

### Distribution system

- The multi-way valve for the pressure side is located at the control panel
- Optimal supply of boom, induction tank, agitator and inside tank cleaning
- Optimised laying of the hoses in the whole boom width for a quick distribution and circulation of the spraying mixture

### 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

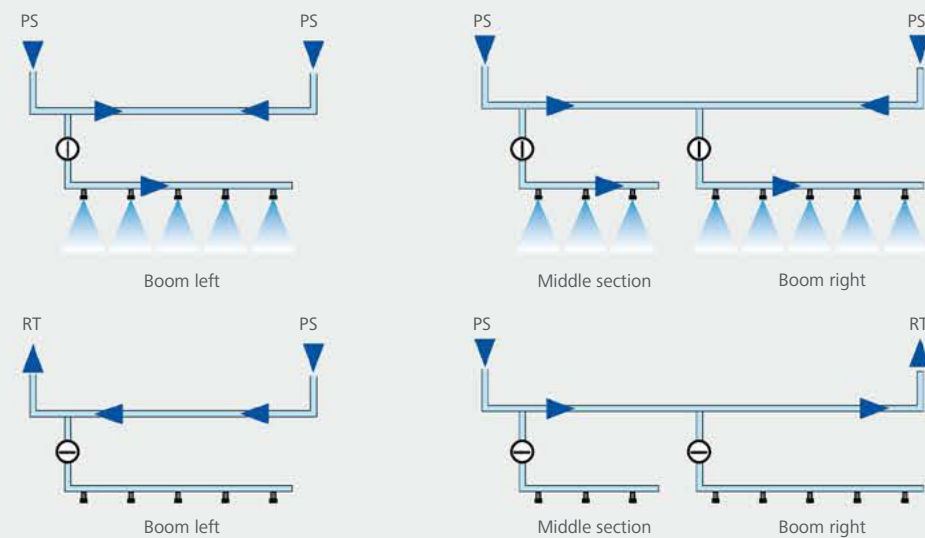
### Circulation as far as the section

- Circulation of the chemical solution as far as the section as soon as the spraying pump is switched on.
- When switching on a section for the first time, the chemical solution is available quickly and in a well-mixed way due to the short hose laying from the section valve to the nozzles.

### Nozzle cleaning

- Simple cleaning: The suction side of the pump is set to fresh water – the nozzle line is thus flushed with clear water – then keep spraying for a few seconds to clean all nozzles.

### Circulation as far as the section + nozzle cleaning



## LEEB AX CIRCULATION AS FAR AS THE SECTION/ AS FAR AS THE NOZZLE

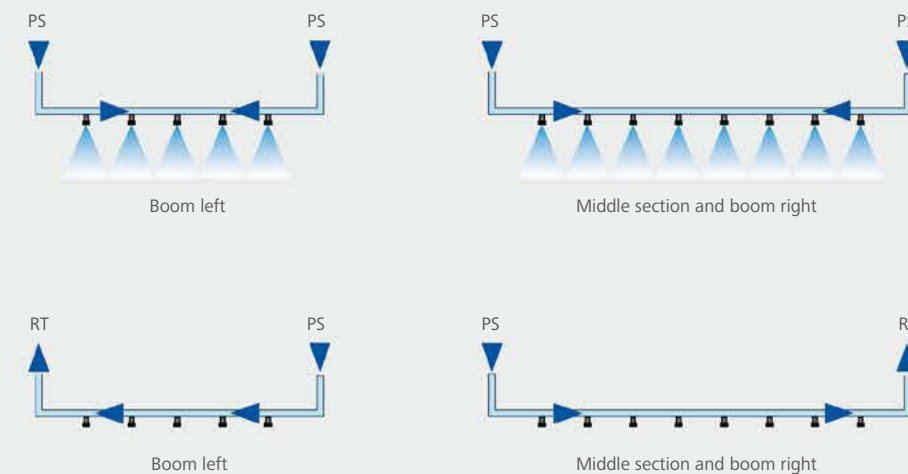
### Circulation as far as the nozzle

- 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 available directly and in a well-mixed way.
- Prevents deposits and blockages

### Nozzle cleaning

- Allows for simple cleaning: The suction side of the pump is set to fresh water – the nozzle line is thus flushed with clear water – then keep spraying for about 3 seconds to clean all nozzles.

### Circulation as far as the nozzle + nozzle cleaning

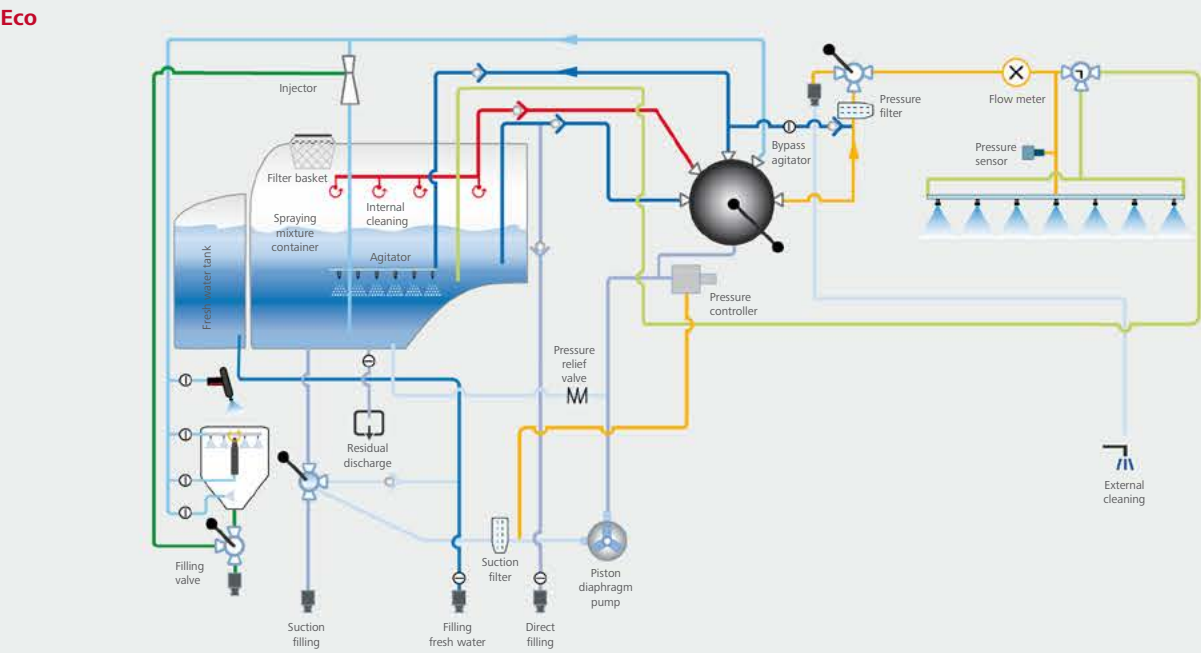




# LEEB AX

## EQUIPMENT VERSIONS

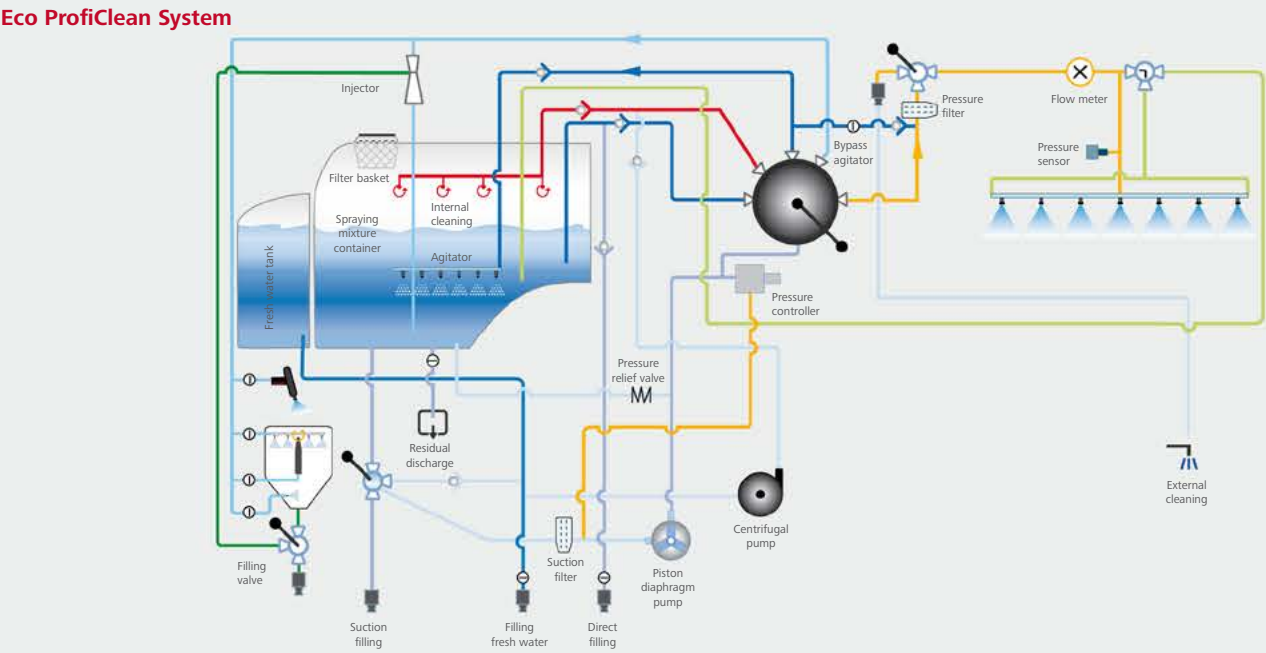
### ECO/ECO PROFICLEAN SYSTEM



- Water system Eco**
- Piston diaphragm pump with 270 l/min
  - Filling connection 2", 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
  - Mechanical level indicator at the mixture tank
  - Digital mixture indicator for the mixture tank in the terminal (optional)

**Continuous inside cleaning with the Eco ProfiClean system**

- Quick sprayer cleaning process
- Inside cleaning can be controlled in the tractor 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



- Water system Eco ProfiClean system**
- Piston diaphragm pump with 270 l/min
  - Hydraulically driven rotary pump for inside cleaning
  - Filling connection 2", 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 side are operated manually
  - Continuous inside cleaning can be controlled from the tractor cabin.
  - Mechanical level indicator at the mixture tank
  - Digital mixture indicator for the mixture tank in the terminal (optional)



- 1** Dome cover with filter basket
- 2** Cleaning and agitator nozzles in the mixture tank
- 3** Easily accessible fittings and filter
- 4** 400 litre fresh water tank and 15 litre handwash tank



# USER-FRIENDLY DUE TO SIMPLE OPERATING CONCEPT



## Terminal options with ISOBUS system:

### HORSCH ISOBUS terminal

- Well-known HORSCH key terminal
- Monitoring and control of the sprayer
- All necessary spraying functions are controlled from the tractor cabin
- Additional possibility of order processing

### Touch 800 terminal

- Latest Touch technology – 800x600 pixel TFT-Dualtouch colour display
- Individually extendable due to **APP&GO®**
- 1 camera connection
- USB connection

### Multifunction joystick

- Comfortable handling via joystick. All important boom functions as well as the section control can simply be selected 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 overlaps on the headlands are reduced, savings on agents of up to 3 % can be achieved.
- With an individual layout up to 13 sections are possible.



HORSCH ISOBUS Terminal



Touch 800 terminal



Multifunction joystick



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



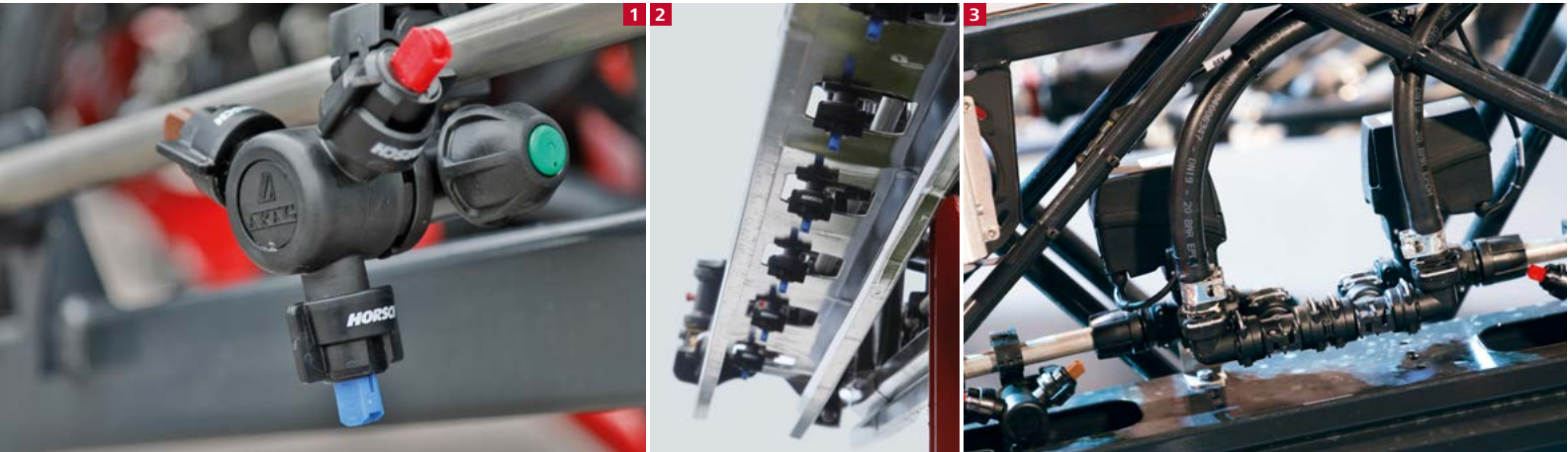
# EFFICIENT AND POWERFUL DUE TO SIMPLY PRECISE APPLICATION TECHNOLOGY

## Power by diversity

- Electrically controlled section valves or pneumatic individual nozzle control
- Fixed nozzle spacing of 50 cm
- Constant target area spacing and excellent saturation and wetting of the population due to BoomControl.
- Wide range of nozzles from different suppliers
- Variable nozzle bodies (electrically pneumatically switchable):
  - Single nozzle body
  - Triple manual nozzle body
  - Quintuple manual nozzle body

## Flexibility and adaption due to pneumatic nozzle control

- Pneumatic individual nozzle control allows for individual and intelligent application techniques
- Excellent saturation and wetting of the population



- 1 Manual multiple nozzle bodies
- 2 Integrated wind and nozzle protection
- 3 Electric or pneumatic section control are available according to the customer's requirements.



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



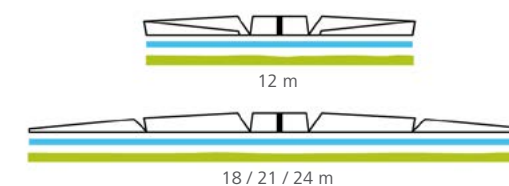
## Boom variants

- Basic boom variants in working widths ranging from 18 to 30 meters
- As an option, it is possible to reduce the working width by spaying with a boom that is partly folded in.

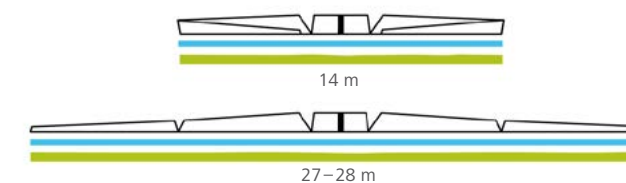
## Stable transport position and speedy folding

- Low folding times
- Stable position even in transport position
- Optimum protection of the nozzle bodies
- Transport width 2.55 m depending on tyres and track
- Transport height 3.80 m to 4.00 m, depending on the tyres

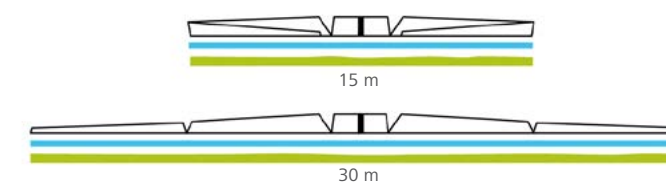
Boom: 5 sect. as an option with reduced working width 12 m



Boom: 5 sect. as an option with reduced working width 14 m



Boom: 5 sect. as an option with reduced working width 15 m



## Folding of the machine





## NightLight: OPTIMAL SPRAYING CONTROL DURING THE NIGHT

- Innovative LED technology guarantees 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 the nozzle function – also in section mode
- More safety and efficiency while spraying around the clock
- Low maintenance and cleaning works



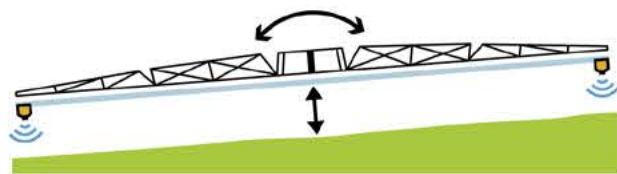
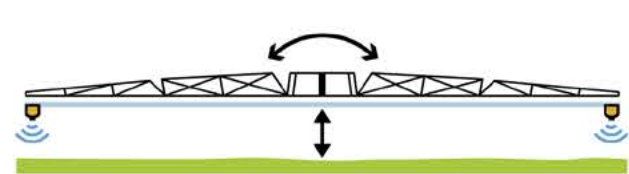


# AUTOMATIC BOOM CONTROL SYSTEMS



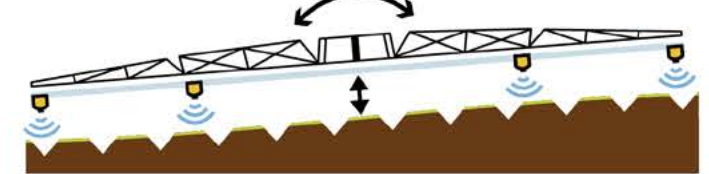
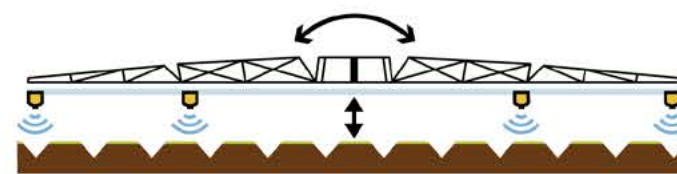
## BoomControl Eco

- 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 with a constant target area distance of 50 cm
- Prerequisite for low drift
- Boom is completely decoupled from the vehicle
- No compromise between damped and freely suspended boom



## BoomControl expansion

- Active adaption of the boom to the terrain by 2 additional sensors.
- For an extended field of vision, also ideal for row and ridge crops



BoomControl –  
automatic height control  
via ultrasonic sensors.





# STRONG, CONVINCING ARGUMENTS

- User-friendly concept that is focused on the essential basics
- Central and clearly arranged layout of the control units
- Low drift due to automatic boom control and constant target area spacing even at high operational speeds
- Smooth boom position even in hilly terrain due to hydropneumatic boom damping
- Autarkic oil supply for high performance independant of the tractor
- Weight-reduced design for low horsepower requirement and low ground pressure
- Large tyres up to ø 1.85 m possible
- Low centre of gravity due to optimised frame design
- Compact external dimensions in transport position
- Pump capacity 270 l/min or 400 l/min
- Efficient induction hopper made of PE
- Eco ProfiClean System for continuous inside cleaning



Platform and handwash tank are integrated in the fresh water tank. Electric or pneumatic section control are available according to the customer's requirements. Track widths range from 1.50 to 2.25 m (depending on the tyres) Several spacious storage compartments and shelves are available

## Option:

- Proportionate-hydraulically controlled drawbar steering
- Pneumatic nozzle control
- Individual section layout
- Boundary nozzle control
- SectionControl (automatic section control)
- NightLight: powerful LED spraying cone lighting
- Rotating signal light
- Hose drum for outside cleaning
- Extension of BoomControl by 2 sensors
- Additional storage box
- Digital level indicator
- Autarkic hydraulic system
- Reduced spraying due to separate folding of the outside wings



# TECHNICAL SPECIFICATIONS

HORSCH Leeb AX	4 AX
Measures and weights	
Unladen weight (kg)	3 450–3 650
Tongue load empty (kg)	500–600
Max. permissible vertical load (kg)	2 000
Axle load empty (kg)	2 950–3 050
Max. permissible axle load (kg)	8 000
Overall 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
Ground clearance axle (m)	0.70
Tank	
Mixture tank nominal capacity (l)	3 800
Mixture tank actual capacity (l)	4 000
Fresh water tank (l)	400
Hand wash tank (l)	15
Spraying boom	
Working widths	18–30 m
Sections (depending on the boom)	5–13
Working height (m)	0.5–2.5
Pump output Eco (l/min)	270
Working pressure, max. (bar)	8
Working speed (km/h)	4–16







[horsch.com](https://horsch.com)

Your distributor:

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