



THE COMPLETE SOLUTION FOR YOUR REQUIREMENTS

The BlackBird[®] trailing shoe family

VOGELSANG – LEADING IN TECHNOLOGY

VOGELSANG



Precision to the point

The BlackBird® series at a glance

Maximum precision in slurry distribution is the key to improved plant development, minimized nutrient losses and a reduced environmental impact. This is exactly where the Vogelsang BlackBird series comes in - with innovative technology for maximum precision in spreading. Each BlackBird has specific advantages, but they all have one thing in common: thanks to the unique trailing shoe and the flow-optimised outlets, the slurry is deposited in narrow strips exactly below the plants. All models are equipped with the precise ExaCut slurry macerators, which enable exceptionally accurate distribution of the slurry. The series is not only technically impressive, but also by its striking design.



BlackBird® Single
7.5 m - 12 m




BlackBird® Light
12 m - 15 m



BlackBird® Pro
12 m - 18 m



BlackBird® Max
21 m, 24 m und 30 m



The flow-optimised slurry outlet is unique to the BlackBird. This was calculated using flow simulations. The result: The optimised geometry ensures that the slurry is deposited with high precision over the entire outlet, resulting in an even narrower slurry strip. The skid also has a new geometry. This ensures even better crop division and penetration into the soil. And thanks to a special additional edge, wear on the skid has no effect on the joint shape or the slot.

Outstanding distribution accuracy: The slurry macerator at the heart of the BlackBird, together with the Vogelsang-typical hose routing, ensures even slurry spreading without a problematic approach wedge.

Durability and protection: The 3D collision protection on all BlackBirds helps to protect the supporting structures. Black hoses also offer greater UV resistance.

Compactness across the board: The BlackBird family consistently focuses on a small installation space - leaving more room for large tank diameters, despite a maximum width of 2.99 metres.

Best visibility even at night: All BlackBirds can be optimised with the unique NightShift lighting, which means that driving at night with obstacles is no longer a problem.

Minimum distance: The DoubleFlow option is also available for all BlackBirds except for BlackBird Max and allows slurry to be deposited in an even narrower band at a distance of 12.5 cm.

Perfection in a compact space

**The new BlackBird® Single: slim, light,
unique in 7.5 m to 12 m working width**

The BlackBird Single sets new standards in the BlackBird family of trailing shoe slurry applicators. With a weight of just 1,050 kg and a full 12 m working width, it can be attached to virtually any tank. Like its siblings, the boom folds on the tank and ensures optimum cutting results with a slurry macerator from the ExaCut series.

The flow-optimised trailing shoes on the BlackBird Single also guarantee optimum slurry placement at all times. Experience the perfect combination of innovation, lightness and functionality with the new BlackBird Single - your reliable partner for precise and effective slurry spreading.

Integrated safety catch in the boom for easier installation

Working widths
from 7.5 m to 12 m

Can be optimally
retrofitted to any tank

PrecisionFlow spout for
perfect placement of slurry

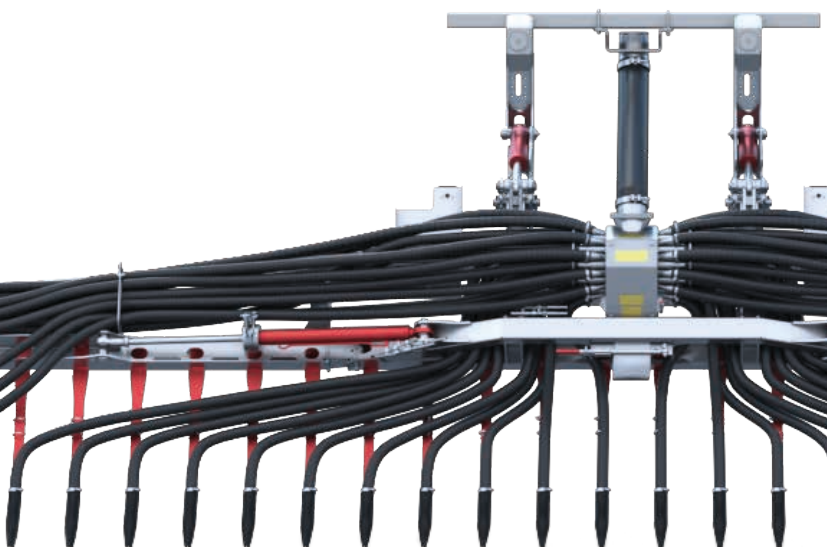




Technical data and features

- Working width: 7.5 m to 12 m
- Transport width: 2.55 m
- Hose spacing: 25 cm or 12.5 cm
- Active pressure on all skids
- Single, centre-mounted slurry macerator
- Optional choice between ExaCut ECL and ECQ slurry macerator
- Optional DoubleFlow and NightShift
- DropStop by folding up the boom for less soiling on headlands, roads and farm tracks

A centre-mounted slurry macerator for optimum results



Made for every tank

- With working widths available from 7.5 m to 12 m, the BlackBird Single offers the greatest possible variety in small structures
- For transport, the boom folds to the side of the tank and keeps the centre of gravity close to the axle
- The light weight makes retrofitting possible on almost all tanks

Perfectly customised

- Choice between two variants of the ExaCut series: ExaCut ECL and ExaCut ECQ
- Hydraulic block with manual control
- Reduction of the hose spacing to 12.5 cm through DoubleFlow option
- NightShift lighting for optimum visibility even at night

Technical data

Max. throughput capacity: up to 7,000 l/min (depending on of pressure and flow rate as well as dry matter content)

Transport width up to tank diameter 2 m: < 2,55 m

Working width in m	Number of slurry macerators	Shoe distance in cm	Weight (basic version) in kg
7.5	1	25	870
9	1	25	930
10.5	1	25	990
12	1	25	1,050

Easy fit on any tank

**BlackBird® Light: trailing shoe
with 12 m and 15 m working width**

Experience the future of agriculture with our innovative, ultra-light trailing shoe slurry applicator! Thanks to the latest materials and innovative design, we offer you a system that is lightweight yet robust. Benefit from more efficient and cost-effective slurry spreading.

Less weight, more power - the BlackBird Light fits seamlessly into our BlackBird series.

3D collision protection

Powerful slurry macerators
ExaCut ECM

Minimal effort
for retrofit solutions

PrecisionFlow outlets in combination
with solid plastic skids





Technical data and features

- Working width: 12 m, 15 m
- Transport width: 2.99 m
- Hose spacing: 25 cm oder 12.5 cm
- Active pressure on all skids
- DropStop by folding up the boom for less soiling on headlands, roads and farm tracks
- Flow-optimised plastic skids for slurry spreading made easy
- Support wheel included for perfect ground tracking

Integrated safety catch in the boom for easier installation



Low dead weight

- Minimal weight of only 1,400 kg with 15 m working width
- Sophisticated hose routing for more weight savings
- Skids made of particularly light but equally robust plastic
- Two compact ExaCut ECM slurry macerators without air intake

High stability

- Hydraulic cylinders with end position damping to minimise frame loads during folding operations
- Sturdy leaf springs for safe road transport

Perfectly customized

- Hydraulic block with manual control
- T-piece and part-width slide
- Reduction of the hose spacing to 12.5 cm with the DoubleFlow option
- NightSchift lighting for optimum visibility even at night

Technical data

Max. throughput capacity: up to 14,000 l/min (depending on depending on pressure and flow rate as well as dry matter content)

Transport width up to tank diameter 2.2 m: < 3 m

Working width in m	Number of slurry macerators	Shoe distance in cm	Weight (basic version) in kg
12	2	25	1,325
15	2	25	1,400

Built for professionals

BlackBird® Pro: trailing shoe slurry applicator with 12 m, 15 m and 18 m working width



Nutrients cost money - use them efficiently with the BlackBird Pro!

The innovative trailing shoe slurry applicator from Vogelsang is available in working widths of 12 m, 15 m and 18 m and enables precise spreading on your fields. Thanks to its compact design, the BlackBird Pro can be easily retrofitted to any existing tank. With an integrated safety gear and numerous mounting options, the BlackBird Pro leaves nothing to be desired, even for professional farmers with high throughput. With the BlackBird, you benefit from particularly even distribution and optimally utilise your nutrients.

3D collision protection

Minimal effort for retrofit solutions

Optimum positioning of the slurry macerator in the centre of the boom for better distribution accuracy

Modified hose routing to prevent the 'start-up V' and for more distribution accuracy



Flow-optimised outlet for high-precision placement of the slurry in a narrow strip



Technical data and features

- Working width: 12 m, 15 m and 18 m
- Transport width: 2.99 m
- Hose spacing: 25 cm or 12.5 cm
- Direct attachment or 3 / 4-point lifting device
- Passive pendulum compensation in the centre frame
- Active pressure on all skids
- DropStop by folding up the boom for less soiling on headlands, roads and farm tracks
- Part-width section control: mechanical or hydraulic

Simple retrofitting to existing drum trolleys
integrated safety catch in the boom



Sophisticated skid geometry for longer durability and better crop division

High precision and distribution accuracy

- Various available additional options, optimised and fully integrated
- Sophisticated hose routing to prevent the 'start-up V' and avoid overlaps
- Innovative rear frame and support structure design for durability and stability
- Sophisticated skid geometry for better crop division and more precise placement of the slurry

Perfectly customised

- ExaCut ECM installed as standard, ExaCut ECQ optional
- T-piece and part-width slide
- Working width adjustment of individual hoses via CFC shut-off or ball valve
- Removable end pieces
- Hydraulic stone trap for emptying the slurry macerators
- Choice of manual or ISOBUS control
- Reduction of the hose spacing to 12.5 cm with DoubleFlow option
- NightShift lighting for optimum visibility even at night

Technical data

Max. throughput capacity: up to 14,000 l/min (depending on on pressure and flow rate as well as dry matter content)

Transport width up to tank diameter 2.1 m: < 3 m

Working width in m	Number of slurry macerators	Shoe distance in cm	Weight (basic version) in kg
12	2	25	1.475
15	2	25	1.550
18*	2	25	1.980

Maximum impact maximum flexibility

BlackBird® Max: trailing shoe slurry applicator with 21 m, 24 m and 30 m working widths

The most powerful side of the BlackBird world

Discover the new BlackBird Max - precision and flexibility at the highest-level. Experience the innovative world of the BlackBird Max, which is available in two impressive versions: 21-24 metres and 30 metres working width. Both versions offer you unbeatable precision, distribution accuracy and unbeatable ground tracking.

Uniquely adaptable: The BlackBird Max with a working width of 21-24 metres sets new standards in terms of ground tracking. A new type of applicator ensures independent height and pendulum levelling of both booms. Even on uneven terrain, the slurry remains precisely under the plants - for efficient nutrient distribution and a successful harvest.

Unrivalled flexibility

The BlackBird Max with a working width of 30 metres impresses with equally perfect ground tracking with equally mounted boom as well as maximum impact power and flexibility. Thanks to a telescopic arm and innovative folding mechanisms, you can choose between 21 m, 24 m, 27 m and 30 m working widths. The compact ExaCut ECM slurry macerator guarantees maximum compatibility and precision. With a transport length of just 9.05 m, the BlackBird Max is easy to mount on any standard barrel.

The cantilever's unique mode of action

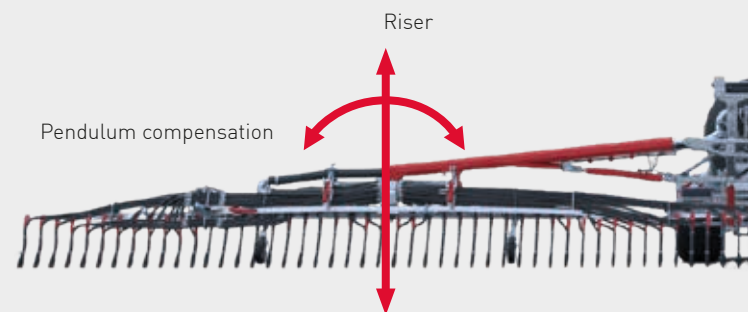


Situation 1: The tanker is located in a depression. The surface rises to the right and to the left. Thanks to its cantilever, the BlackBird can also adapt effortlessly here: each boom compensates independently for the respective lateral height increase.



Situation 2: The tanker is located at the edge of a slope. The left boom is positioned sloping down while the right side is in the horizontal position. The integrated height and pendulum compensation of the left cantilever compensates for the unevenness. All skids therefore follow the soil contour throughout.

Ground hugging of the boom





The unique folding concept of the BlackBird® 30 m



30 m: Inner and outer end segments are unfolded on each boom.
The telescopic boom is extended.



27 m: The inner end segments of the each boom are folded up, and the outer ones are unfolded. Also, the telescopic boom is retracted so you can drive with the actual working width, with no overhang.



24 m: The outer end segments of the each boom are folded up.
The telescopic boom and the inner end segments are extended and unfolded respectively.



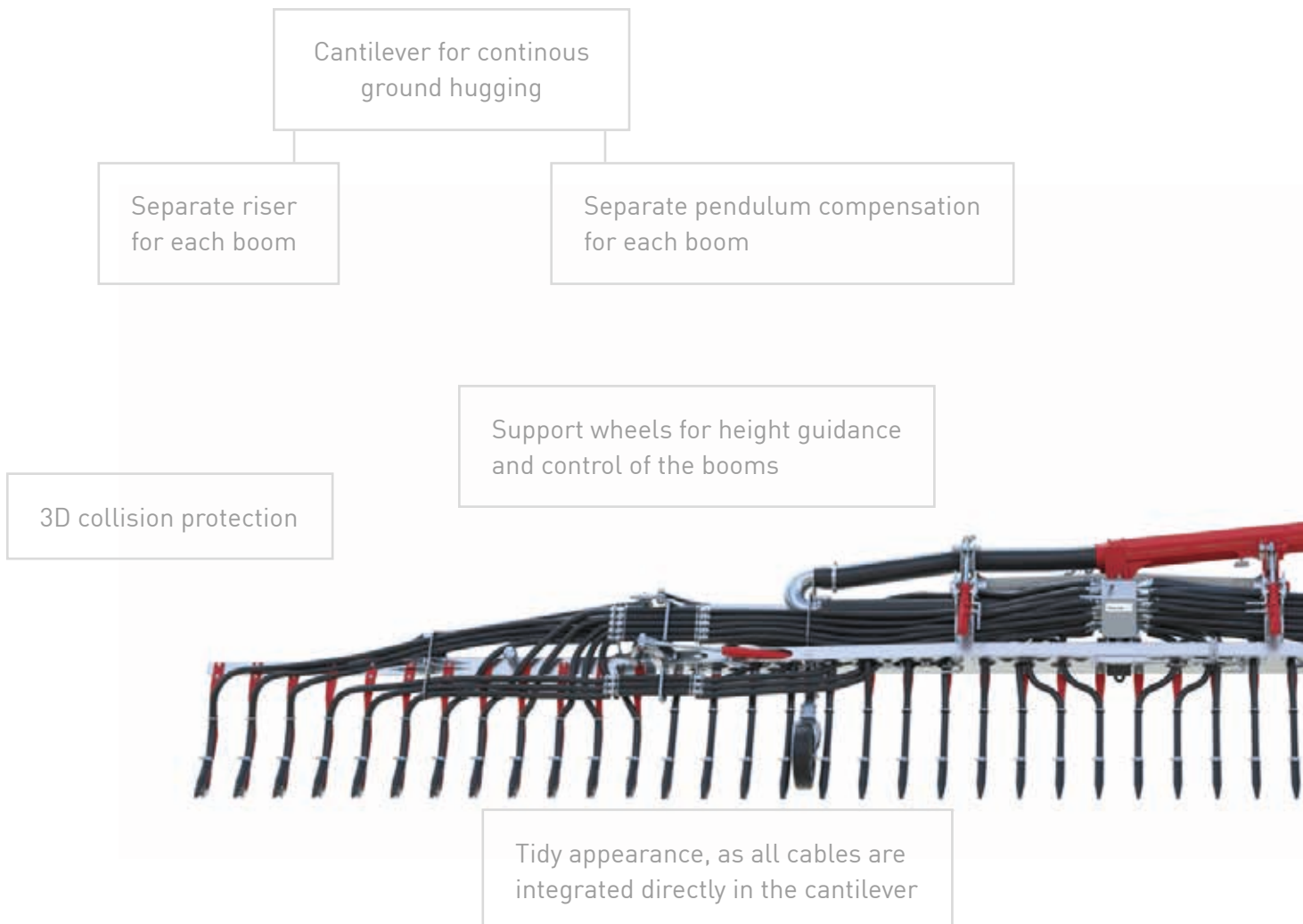
21 m: At the smallest working width, all folding mechanisms on the booms are folded up. The telescopic boom is retracted.

Stays consistently on the ground

BlackBird® Max: trailing shoe slurry applicator in 21 m and 24 m working width

Convincingly adaptable

The BlackBird Max in 21 and 24 metre working widths offers unbeatable precision, distribution accuracy, high stability, long service life and simple assembly. A decisive advantage is the perfect ground tracking of the applicator. The nutrients can only be placed precisely by continuously placing them close to the ground. Our idea: a unique applicator that ensures height and pendulum equalisation. And independently for both booms! So you can practically drive in a valley - a rising surface on the right and left - the boom adapts completely to the contour of the ground. The height is equalised by the applicator and the slope by the pendulum compensation. Optimum contour guidance is always ensured. The slurry is optimally deposited underneath the plant. This once again confirms the image of the BlackBird - precision in a new dimension.

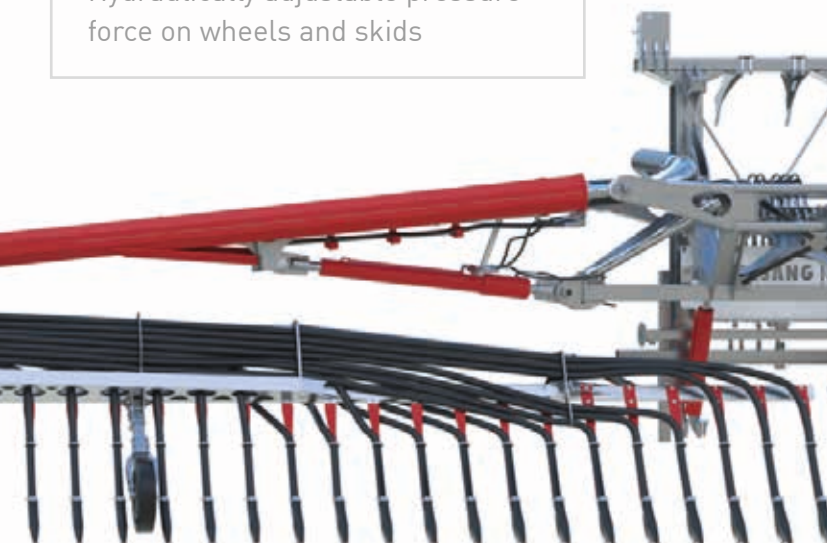




Technical data and features

- Working width: 21, 24 m
- Transport width: 2.99 m
- Hose spacing: 25 cm or 12.5 cm
- Direct attachment or 4-point lifting device
- Ideal ground tracking thanks to centralised central levelling and height compensation for half the working width and, above all, independently of each other
- Active pressure on all skids
- Part-width folding at 24 m working width at 21 m and at 18 m hydraulically
- Part-width folding at 21 m working width to 15 m hydraulically
- DropStop by folding up the boom for minimal soiling on headlands, roads and farm tracks
- Section control: hydraulic
- Compact transport position thanks to optional tilting the booms to the barrel by 5 degrees

Hydraulically adjustable pressure force on wheels and skids



Flexible management of boom part width sections to implement different working widths with one applicator, without any overhang of the frame

BlackBird® advantages

- Optimum, continuous ground hugging due to cantilever for optimum height and pendulum compensation
- Flexible management of applicator part width sections for several working widths with only one applicator, without protrusion
- Clear optics of the entire applicator, since all cables are integrated in the cantilever

Specifications

Max. throughput capacity: up to 14,000 l/min (depending on pressure and flow rate as well as DS content)
Transport width up to tank diameter 2.1 m: <3 m

Working width in m	Number of slurry macerators	Shoe distance in cm	Weight (basic version) in kg
21	2	25	3.700
24	2	25	3.800

Flexible like no other

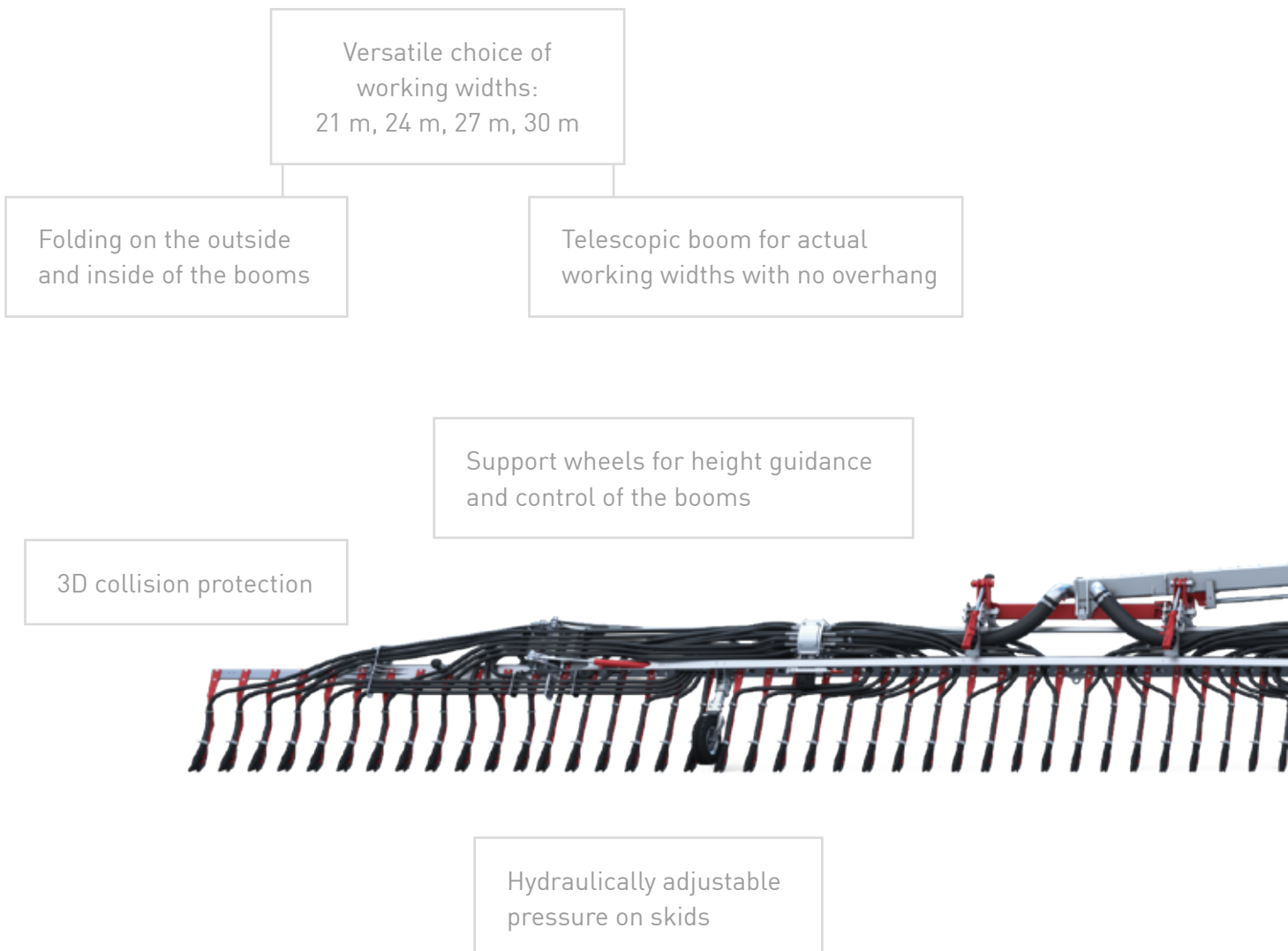
BlackBird® Max: trailing shoe slurry applicator in 30 m

Maximum flexibility and precision

Experience the next generation of trailing shoe slurry applicators with the BlackBird Max. With an impressive working width of up to 30 metres, this model not only offers maximum impact power, but also unparalleled flexibility. Thanks to the innovative telescopic arm and unique folding mechanisms, the BlackBird Max 30 m enables four flexible working widths without overhang: 21 m, 24 m, 27 m and 30 m. The newly developed ExaCut ECM slurry macerator ensures precise and even distribution of nutrients, while the PrecisionFlow nozzles and optimum ground tracking guarantee perfect placement.

With a transport length of just 9.05 m, the BlackBird Max 30 m is compatible with a wide range of tanks in the professional segment and therefore offers all options for retrofit tanks or new vehicles.

Discover the unbeatable precision and flexibility of the BlackBird Max - your partner for efficient and precise nutrient distribution.





Specifications and characteristics

- Working width: 30 m
- Folding to partial width sections: 27 m, 24 m, 21 m
- Transport width: \leq 3.00 m
- Hose spacing: 25 cm
- Direct attachment or 4-point lifting system
- Optimum ground hugging due to oscillation compensators and risers in each boom
- Compact transport position due to innovative folding concept

All the advantages of the new BlackBird® 30 m at a glance

- Maximum versatility due to four different working widths with no overhang
- Absolutely compact with a boom length of 9.05 m on the tank
- Four installed ExaCut ECM slurry macerators without ventilation, with compact design
- Tank widths up to 2.20 m are possible
- Hydraulically adjustable pressure on all skates
- Optimum ground hugging due to risers and oscillation compensators
- 3D collision protection to 1.5 m for greater safety in any position
- Transport width \leq 3 m

Specifications

Max. throughput capacity: up to 17.500 l/min (depending on pressure and flow rate as well as DS content)
 Transport width up to tank diameter 2.2 m: $<$ 3 m

Oscillation compensators and risers for perfect ground hugging



Four ExaCut ECM slurry macerators without ventilation, for maximum compactness

Working width in m	Number of slurry macerators	Shoe distance in cm	Weight (basic version) in kg
30	4	25	5.800

What we offer

We offer solutions in the following sectors:
AGRICULTURAL TECHNOLOGY, BIOGAS, INDUSTRY,
TRANSPORTATION, WASTEWATER



Our broad range of products and services

- Consulting and service
- Data management and control technology
- Disintegration technology
- Individually tailored solutions for special applications
- Pumps and pump systems
- Solid matter feeders
- Spreading technology
- Supply and disposal systems for railway, busses and boats
- Wet grinders and solids reduction as well as separation technology

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