HIT THE MARK: THE NEW BLACKBIRD

Vogelsang trailing shoe engineering for the future
Leading in Technology.
Dribble bar and trailing shoe linkages from Vogelsang are trusted by agricultural businesses worldwide thanks to their strength, durability and practical functionality. Intelligent technical options allow flexible working widths and convenient transport, while the combination with compatible precision distributors results in perfectly accurate and even liquid manure deposition.
As in every stage of the liquid manure distribution process, accuracy is the key to maximum efficiency. Better plant growth, less nutrient loss and lower environmental impact – everything depends on depositing liquid manure precisely and only where it can have an optimum effect, which is at the base of the plants. Everything about the Vogelsang BlackBird trailing shoe linkage is designed specifically to apply the liquid manure as precisely as possible at this point. Take a look for yourself!

The Vogelsang BlackBird offers many advantages, such as a low weight, active pressure for optimum deposition under the plant, a compact transport position, easy retrofitting and a passive oscillation compensator in the central frame of the linkage. We felt that these were fundamental requirements that any trailing shoe linkage should meet. But we have gone much further and given this trailing shoe linkage a few more critical features that open up a whole new dimension.

**BlackBird stands for better distribution accuracy**
The precision distributor is the heart of the BlackBird. It can achieve the best possible positioning in the linkage. Combined with Vogelsang’s typical hose layout, this ensures outstanding distribution accuracy. In addition, there is no “V shape” when starting and the liquid manure is spread over the entire field with no overlaps.

**BlackBird stands for safe transport**
Thanks to sophisticated vibration absorption, there is minimal movement of the leaf springs. This ensures the smoother transport of the linkage.

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**A NEW DIMENSION IN PRECISION**

*The new BlackBird from Vogelsang*

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**Modified hose layout to prevent V shape when starting and ensure better distribution accuracy**

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**Integrated holding and security device in boom for easier assembly**

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This results in unprecedented precision in deposition of liquid manure directly on or in the ground.

In addition, the BlackBird skid has been given a pointed wearing edge for better ground penetration. The newly developed, more elongated form is also the reason for the BlackBird trailing shoe’s longer lifetime as it results in less signs of wear. Furthermore, any traces of wear have no influence on the form of the slot opened up on the ground by the skid.

**BlackBird stands for longer service life**

In addition to the minimized signs of wear on the shoe and the skid thanks to their special form, the new springs and supports provide support against excessive loads on the entire design as they reduce vibrations. This linkage is also the first to feature black hoses, which have even higher UV resistance.

**BlackBird stands for greater precision**

Using flow simulations, the Vogelsang product developers tested a range of different trailing shoe geometry options. Intensive studies of the flow rate and the flow characteristics of liquid manure led to totally new findings. This resulted in a new, beak-like, more elongated form, which levels out the acceleration of the liquid manure at the discharge. The outflow over the entire discharge length of the shoe is more controlled and more even, while deposition involves no unnecessary plant contamination.
BlackBird stands for simple assembly and retrofitting
Because of its compact design and its center of gravity close to the tank, the new trailing shoe linkage can be retrofitted with no problems. Thanks to the numerous assembly options and integrated holding and security device, it is easier to attach to any barrel. At the same time, the linkage is also optimized for tankers with a larger tire diameter, thanks to the sophisticated frame guide.

Specifications and characteristics
• Working width: 12 m and 15 m
• Transport width: 2.95 m
• Hose spacing: 25 cm
• Direct attachment or 3/4 point lifting system
• Passive oscillation compensator in central frame
• Active pressure on all skids
• DropStop mechanism folds up the linkage to ensure less contamination on headlands, roads and agricultural tracks.
• Part-width section cut-off: mechanical or hydraulic

BlackBird advantages at a glance

High precision and distribution accuracy
• Optimum positioning of precision distributors centrally in boom
• Sophisticated hose layout to prevent V shape when starting and avoid overlaps
• Flow-optimized liquid manure discharge for high-precision deposition of liquid manure in a narrow strip
• Sophisticated skid geometry for better distribution and more precise deposition of liquid manure

High stability
• Passive oscillation compensator in central frame
• End position cushioned hydraulic cylinders for minimum frame loads when folding
• Innovative stable leaf springs for safe road transport

Long service life
• Black hoses for greater UV resistance
• Sophisticated skid geometry

Easy assembly and retrofitting
• Integrated holding and security device in boom
• Fits on every existing tanker, as well as tankers with larger tire diameters

Optimum positioning of precision distributors centrally in boom for improved distribution accuracy
What we offer

We provide 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
• Solids reduction, separators and mixers
• Spreading technology
• Supply, disposal and cleaning

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