SPREADING SYSTEMS

NOVEMBER 2024

GB

Fliegt

KDS 140



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INNOVATIVE BY TRADITION

The name Fliegl has a decades-long reputation for quality, innovative action, and practical solutions for agriculture. These are advantages which have made Fliegl the No.1 In Europe, for example in the agricultural trailers sector. Whether it's for tippers, original push-off trailers, slurry technology or harvest logistics:

FLIEGL ALWAYS HAS THE OPTIMUM TRANSPORT CONCEPT FOR YOU.

















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Spreaders for ASW

"Gigant" push-off trailer with powerful spreading gear

SPREADER "PROFI" DLG TESTED



Wide-spreading back wall





Milling drums with throwing vanes



Push-off speed is adapted automatically by the automatic feed control

The milling drums break up the spreading material for uniform results.

The spreading gear is driven mechanically by a PTO through-drive shaft







The sliding gate is fully galvanised as standard. The spreading unit bearings can be accessed through a central lubrication bar for easy maintenance.



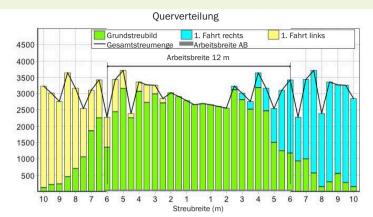
Spreader Profi V2 with slinger:

- Smooth startup
- Impervious to foreign objects
- Gentle on the gears, with low maintenance

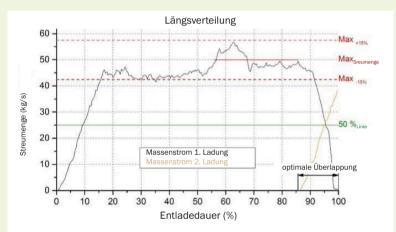


Spreader "Profi V2n" For push-off trailers with 1500mm body height





Travel speed: 5,5 km/h | coefficient of variation (VK): 13,2% | ++



Coefficient of variation (VK): 9,79% | ++

DLG evaluation scale	VK% > 20 to 25	=	0	
	VK% > 15 to ≤ 20	=	+	
	VK% ≤ 15	=	++	



Spreader "Profi V2" with closed wide-spreading back wall





The ISOBUS Multi-Control is a multi-machine control system. It allows parallel operation of a FLIEGL VARIO SENS and a FLIEGL TRAILER CONTROL, for example. So the Multi-Control simplifies the work of the operator and also increases the efficiency of the application itself.

Or	e operation step by step - automatically:
1	PTO speed is checked and controlled
2	Optional opening of rear flap, e.g. for solid manure
2	Sliding gate is opened
4	Sliding wall is pushed out at maximum speed
5	Sliding wall is controlled according to torque
	Two emptying strokes to completely remove remaining material
	Sliding wall is retracted at maximum speed
8	Rear flap is closed
	Sliding gate is closed

CONTROL AND FEED SYSTEMS



Electric potentiometer with adjustable feed rate on control panel



Mechanical potentiometer with adjustable feed rate at the spreading unit



Automatic torque control with "VARIO-SENS" feed control

ADS push-off manure spreader

Solid manure spreading with patented push-off technology Ideal: spreading pattern adjustable by hydr. drawbar tilt cylinder





Hydraulic drawbar suspension, best ride comfort



Minimum wear with hydr. pushing system - no scraper floor.



Hydraulic sliding gate

Robust spreading unit with working width about 12 m





High stability - low centre of gravity

C-MQ.V

With proven push-off technology

No sensitive wear parts compared with a scraper floor



Protective grating as standard



Slinger



ADS 200 with 19m³ volume

ADS 120 with spreading unit



FLIEGL ADS 120 Verteilqualität Stallmist DLG-Prüfbericht 6292



With the proven Fliegl push-off technology, the material is fed evenly to the spreading unit. When the spreading is over, the loading area is virtually clear and the underfloor remains clean, unlike with conventional scraper floors.



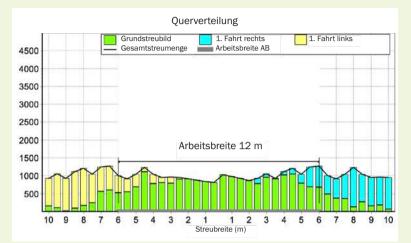


Spreading unit Profi V2 with slinger:

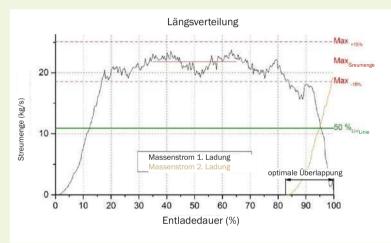
Impervious to foreign objects

Gentle on the gears, with low maintenance

ADS 120 WITH PROFI V2 SPREADING UNIT STABLE MANURE 10 T/HA WITH REAR FLAP OPEN



Travel speed: 7.5 km/h | coefficient of variation (VK): 12.7% | ++



Coefficient of variation (VK): 8,03% | ++

DLG evaluation scale	VK% > 20 to 25	=	0	
	VK% > 15 to ≤ 20	=	+	
	VK% ≤ 15	=	++	



The sliding gate is fully galvanised as standard. The spreading unit bearings can be accessed through a central lubrication bar for easy maintenance.

Technical data ADS

		ADS 60	ADS 80	
Total permitted weight	kg	6.000	8.000	
Drawbar		Top hitch	Top hitch	
Dimensions L x W x H	ca. mm	3.500 x 1300 / 2.100 x 900	4.500 x 1.300 /2.100 x 1.350	
Volume	ca. m ³	6	9	
Standard tyres		15/70-18 16 PR	385/65/22,5 RE	

	ADS 160	ADS 160 Tandem	
kg	14.000	16.000	
	Bottom hitch	Bottom hitch	
ca. mm	5.500 x 1.300 /2.100 x 1.600	5.500 x 1.300 / 2.100 x 1.350	
ca. m ³	18	14	
	750/60 R 30.5	560/60 R 22.5	
	ca. mm	kg 14.000 Bottom hitch ca. mm 5.500 x 1.300 / 2.100 x 1.600 ca. m³ 18	kg 14.000 16.000 Bottom hitch Bottom hitch ca. mm 5.500 x 1.300 / 2.100 x 1.600 5.500 x 1.300 / 2.100 x 1.350 ca. m³ 18 14



Optional: spreading roller protection and sliding gate for ADS 60



ADS 60 with 4 vertical rollers.



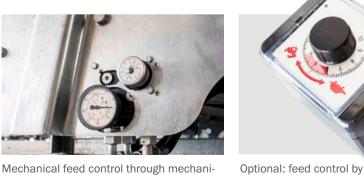
Optional: 40km/h version with mudguards with ADS 80 / ADS100 / ADS120

ADS 120	ADS 100
12.000	10.000
Bottom hitch	Bottom hitch
5.000 x 1.300 / 2.100 x 1.600	4.500 x 1.300 /2.100 x 1.300
14	9
28 L 26	23.1/26



ADS 200 Tandem
20.000
Bottom hitch
5.500 x 1.300 /2.100 x 1.600
18
560/60 R 22,5

cal potentiometer



Optional: feed control by electric potentiometer



As an option, the ADS can be retrofitted with an 800mm large-area back wall for use as a transport trailer

Chain spreader »KDS«

Two vertical rollers

Spreading roller guard

Capacity of 12 to 17 m³

- Single-axle or tandem
- Conical shape ensures deep design and low centre of gravity
- Low loading height
- Different control options
- Spreading width depending on spreader:
- from 11 m (Junior), 14 m (Junior XL) to 24 m (MuckControl)



Spreading technology KDS

KDS »junior« Universal spreader

Comprises two vertical rollers with a usable height of 1800 mm and passage width of 1500 mm. The spreading width is approx. 11 m. Roller diameter: 755 mm

KDS »junior« Universal spreader XL

Comprises two vertical rollers with a usable height of 1800 mm and passage width of 2000 mm. The spreading width is approx. 14 m. Roller diameter: 1045 mm



Spreading width approx. 14 m

KDS »muck control« *vario SPLASH*

Drive train of the horizontal rollers. Overload protection via ratchet clutch in drive shaft to tractor.



Throwing Blade Adjustment



The varioSPLASH disc spreader features two large spreading discs, each measuring 1100 mm in diameter and equipped with 6 spreader vanes adjustable perpendicularly to the spreading angle. They feature replaceable plates made from HB 400 steel and safety bolts for individual sensitivity adjustment.

Equipment KDS

Not all equipment options shown are available for all models.





Hydraulically sprung drawbar for bottom attachment. The coupling height can be easily adjusted.



Supporting stand Adjustable, centrally rearward-folding for maximum stability



Stone guard



Front inspection grille



The **sliding gate opening scale** on the front shows the opening position of the sliding gate.



Easily **accessible chain wheels** which can be lubricated through the shaft on either side



Central lubrication point



On KDS tandem and tridem: chassis guard (manure protection)



Milling Drum Drive via Cardan Shaft



Milling Drum Connection via Chain (KDS 255)



Ladder



Folding body attachment



Hydraulic chain tensioning



Edge spreading device Available as single attachment for left or right, or for both sides.



"Dynamic" full-LED rear light with dynamic indicator made from impact-resistant material



KDS 260: body made from fine-grain steel

Control Technology

Spreading systems Junior, Junior XL, and MuckControl



Spreader Control ISOBUS Control System

Control of all machine functions via the terminal in the tractor. Regulation of the conveyor floor speed based on the entered parameters to achieve a uniform spreading pattern. Integrated counters for operational data collection. Pre-equipped for site-specific application (steering system and additional activations are required).













Mechanical potentiometer with feed rate adjustment at front of spreader body

Electric Potentiometer:

Infinitely variable adjustment of the conveyor floor speed via a control unit in the tractor cabin. The control range and resolution can be redefined by the customer or a workshop.

Electric Potentiometer with Dual Changeover Valve:

Control of hydraulic functions for support leg/drawbar, pressure flap, and rear wall via a double-acting control unit. Infinitely variable regulation of the conveyor floor speed. The control range and resolution can be redefined by the customer or a workshop.



Control Block with Electric Potentiometer and Control Panel:

Operation of hydraulic functions such as the conveyor floor drive, pressure flap, and rear wall. Infinitely variable speed regulation of the conveyor floor via a rotary knob in the tractor cabin. The control range and resolution can be redefined by the customer or a workshop.

Weighing System:

Precise determination of payload. In conjunction with the ISOBUS control system Spreader Control, the controller can regulate the conveyor floor speed based on weight changes.

Chain spreader »muck control«



Optional: electronic speed monitoring Monitors the speed of the mixing rollers and automatically deactivates the material chain conveyor when necessary to protect the system against damage due to foreign objects.



2 Milling Drums with Rotating Tines Made of wear-resistant steel, they ensure optimal material breakdown. Welded-in rods act as anti-wrapping protection to facilitate cleaning of the milling drums. The milling drums are cardan-driven and protected against overload.



2 Spreading Discs with 6 Throwing **Blades Each**

Ensure uniform distribution of spreading materials. The throwing blades are equipped with carbide plates.



Adjustable Rear Wall Tilt: The inclination and thus the optimal point of the spreading material on the spreading discs can be adjusted using the two spindles on the left and right for the lower part of the rear wall.





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Hydraulic tailgate



Conveyor Floor Drive: Spur gear and hydraulic motor located on the left side in the direction of travel.



Mechanical chain tensioning Consistent and Even Chain Tension: This is a fundamental requirement for reliable material transport. The tensioning elements are located at the front of the trough.



2 External Chain Strands: Made of V2 chain links with a breaking load of 50 tons.



Star-Shaped Sprockets: Designed for low susceptibility to contamination.

Precision Farming

The combination of the ISOBUS control system Spreader Control, the fully integrated weighing system, and the guidance system enables site-specific, demand-based fertilization.

This saves fertilizer and prevents over-fertilization.

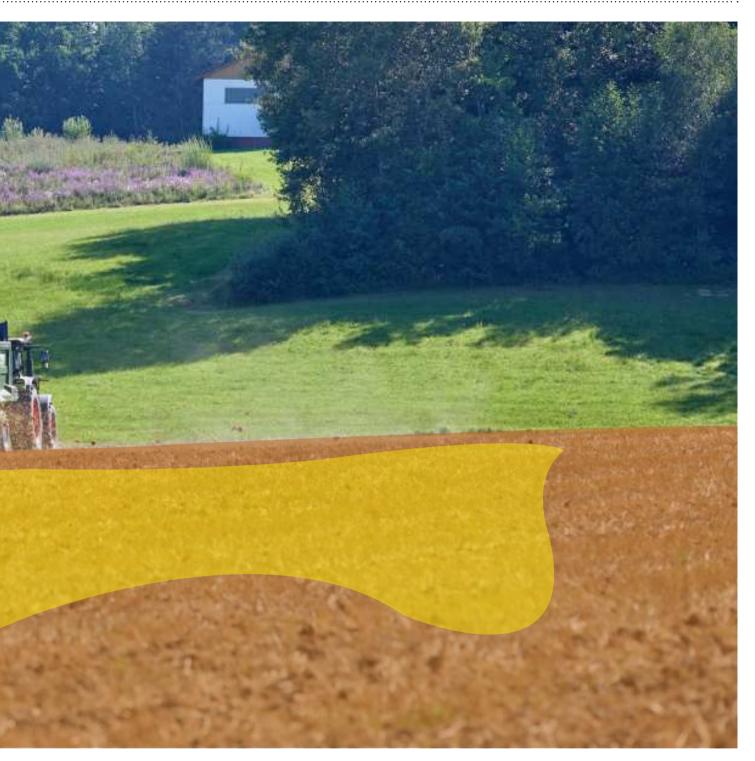
Requirements

- Field record system with a file for the field section.
- Application map with site-specific application rates.
- Tractor with ISOBUS terminal, task controller, and GPS receiver.

Operation

- The guidance system determines the spreader's position in the field.
- The control system compares the application rate assigned to the position with the current application rate.
- If the target (set) and actual amounts do not match, the spreading quantity is automatically adjusted.

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- Result
- A fully integrated weighing system allows for precise fertilization even with non-homogeneous spreading materials.
- Fully integrated into the ISOBUS control system, the conveyor floor speed is adjusted to the desired application rate based on weight changes.
- Thus, fertilizer is applied exactly as needed, avoiding over-fertilization.

Technical data single-axle/tandem/tridem chain manure spreader

		KDS 120 Tiefbett	KDS 140 Tiefbett	KDS 165 Tiefbett	
Perm. total weight	kg	13.000	13.000	14.000	
Number of axles		1	1	1	
Drawbar load	kg	3.000	3.000	4.000	
Net weight	approx. kg	4.900	5.300	6.100	
Body length	mm	4.500	5.500	6.500	
Body width	mm	1.350 - 1.800	1.350 - 1.800	1.350 - 1.800	
Loading sill height	mm	2580	2580	2580	
Lateral body height	mm	1.450	1.450	1.450	
Volume	approx. m ³	10	12	15	
Volume, heaped	approx. m ³	12	14	17	

SPREADING MATERIAL Parameters for distribution quality of stable manure, compost, chicken dung and digestate

	STABLE	MANURE	CON	IPOST	СНІСКІ	EN DUNG	DIG	ESTATE
Working width [m]	18	18	10	14	12	22	15	20
Target discharge rate [t/ha]	18	18	10	14	12	22	15	20
Travel speed [km/h]	7,1	3,7	10,3	5,6	12,1	12,1	5,6	3,2
Transverse distribution								
Coefficient of variation (CV) [%]*	14,5 (+)	14,7 (*)	13,9 (+)	14,4 (+)	8,9 (++)	19,3 (o)	7,9 (++)	14,7 (+)
Longitudinal distribution				• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		
Coefficient of variation (CV) [%]**	11,9 (+)	16,7 (o)	8,3 (++)	10,8 (+)	8,4 (++)	8,4 (++)	13,3 (+)	14,1 (+)
Dilation within tolerance zone [%]***	75,9 (++)	62,5 (+)	92,4 (++)	87,4 (++)	91,2 (++)	91,2 (++)	83,2 (++)	69,7 (+)



KDS 270 »muck control« | tandem

- 25 m³ load wall
- Side walls and floor made from fine-grain steel
- Chassis made from robust hollow section frame
- Hydraulically sprung drawbar
- Swivelling traction bar

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FLIEGL KDS 270 MUCK CONTROL Verteilqualität Stallmist Verteilqualität Kompost Verteilqualität Hühnerkot Verteilqualität Gärrest DLG-Prüfbericht 7088

KDS 390 Muck	KDS 270 Muck	KDS 260 Muck	KDS 255 Muck	KDS 265 Tiefbett
29.000	20.000	20.000	18.000	20.000
3	2	2	2	2
2.000	2.000	2.000	2.000	2.000
11.500	9.500	8.400	8.000	7.800
9.000	7.000	6.000	5.500	6.500
2.150	2.150	2.150	2.000	1.350 - 1.800
3.100	3.100	3.000	2.700	2.600
1.400	1.400	1.400	1.200	1.450
30	23	20	13	15
32	25	22	15	17

Selecting the Right Spreading System:

The three different spreading systems offer various crushing and spreading characteristics. Depending on the spreading area, the breakdown of the spreading material is an important factor for selecting the appropriate spreading system. ------

Available spreaders/type

	Spreader Junior	Spreader Junior XL	Wider spreader Vario Splash
KDS 120 Tiefbett	\bigcirc	0	0
KDS 140 Tiefbett	~	0	0
KDS 165 Tiefbett	S	0	0
KDS 265 Tiefbett	S	0	0
KDS 255 Muck			\bigcirc
KDS 260 Muck			\bigcirc
KDS 270 Muck			\bigcirc
KDS390 Muck			\bigcirc
Standard equipment Optiona	1		

Suitability by Spreading Material

Spreading Material	Spreader Junior	Spreader Junior XL	Spreader Muck
Frischer Mist	++	++	+
Verfaulter Mist	+++	+++	++
Hühnermist	++	++	+++
Kompost/Torf	++	++	+++
Kalk	+	+	+++
Schlamm	+	+	++

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> Dimensions, weights, and technical data are subject to modification. Some illustrations show special equipment. Spreading systems 11-2024



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