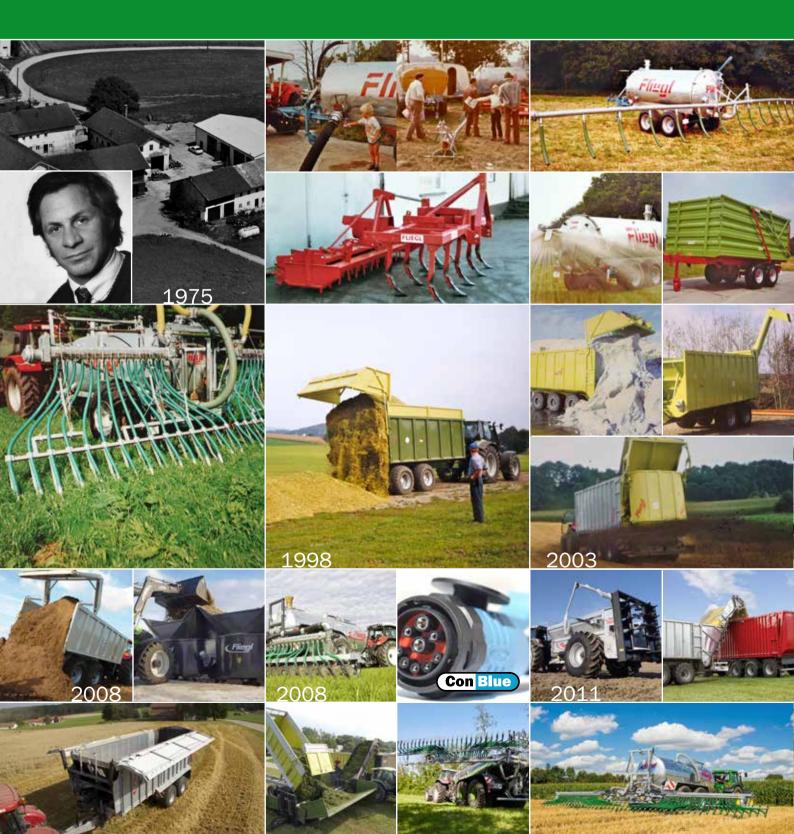


Tanks and slurry technology

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, for example, the No.1 in Europe for agricultural trailers. Whether it's about tippers, original push-off trailers, slurry technology or harvest logistics: Fliegl will always have the optimum concept for you.





Despite globalisation, Fliegl has consistently developed and produced in Germany, and one reason for this is our trained and qualified staff. From engineers to apprentices, we look for skills that we can develop through continuous education and training. Another factor is the high technical standard in Germany, which provides the ideal conditions for developing our ideas into the high-quality products expected of the Fliegl brand.







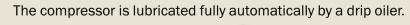
Suction nozzle - to left or right for easy suction

heat-resistant

Turbo filler on left or right side possible

Hydraulic filling dome (400 mm or 600 mm)

Compressors available with the widest variety of power levels*





Battioni Ballast 13,500 L heat-resistant

Vacuum tank VFW

Volume: 3,000 L to 30,000 L

Ideal for powerful slurry application



Can be combined with any Fliegl slurry spreader

Suitable for almost any substrate, as well as for water











Mechanical filling dome Ø 400 mm

Optimal homogenisation of the slurry Left: Hydraulic internal agitator with paddle screw Right: Air agitator



Overpressure valve 0.5 bar

Discharge accelerator with or without shredding cutter



Over/under-pressure valve 0.5 bar

Standard equipment



Optional



Hertell 14,000 L water cooled and heat-resistant





Control panel for tank + distributor Illustration: Red flashing light to protect the pump from running dry

Sensor for automatic pump changeover

Tapered three-way gate slider with mechanical flow adjustment

Perfect technology for high power suction



Suction manifold with sight glass

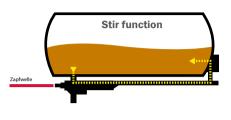


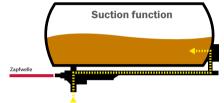
Tandem pump tank PFW 12.000 L MAXX-Line

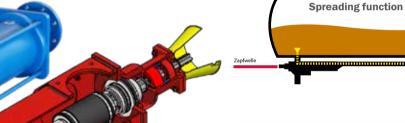
Eccentric screw pump,

The eccentric screw pump ensures pulsation-free flow. The auger-type rotor has no trouble in delivering even very thick slurries at high flow rates and high pressure, so even deep slurry pits are not a problem for this pump. The pump is connected to the rear or front of the tank, pumping slurry in at the rear and out from the front.

The 3-way gate slider is used to switch between filling or emptying, or stirring inside









Rotary piston pump Equipment pictured: Vogelsang GmbH & Co. KG, 49632 Essen/Oldb.

- High suction and spreading power
- Low noise emission
- Can be combined with any Fliegl slurry spreader
- Linear flow during the spreading process at the same PTO shaft speed



Hydraulic push cover









Fill level indicator on the top of the tank







with Skate 90 drag shoe spreader

variants, e.g. with telescopic axle

- · Ground pressure shifting
- Extremely high stability on slopes











Tanker trailer STF 25,000 I and 27,500I

- Volume 25,000 l or 27,500 l
- Two-axle or three-axle version
- Air suspension
- Steering axle with automatic locking
- 40 60 or 80 km/h version
- Vacuum or pump version
- Filling dome D600 mm
- Rear docking
- Suction nozzle 8"
- Internal agitator pneumatic or hydraulic
- Electromagnetic control





Road X Poly Line with mechanically driven rotary lobe pump for suction









Two-axle transport tanker TFW 16.000

Various SERIES - with a big equipment plus!

Steel tanks in many different sizes – for every requirement!



JUMBO Line Vacuum

Jumbo Line tanks are specially designed for smaller farms where there are steep slopes. These tanks are distinguished by their particularly low centre of gravity, from 5,000L with offset axle as standard!



JUMBO Turbo Line Vacuum

Jumbo Turbo Line tanks differ from the Jumbo Line tanks in that they have an additional centrifugal pump. Thanks to the combination of compressor and centrifugal pump, a hydraulically swivelling sprinkler nozzle can be mounted as an option. So even slurry can be spread even on steep slopes that are difficult to negotiate. (Follow the national regulations on the use of fertilisers)

JUMBO Line Plus Pump & Vacuum

The standard Boogie SB floating assembly combined with the 30.5" wheels ensure secure and soil-friendly working on slopes.

The hydraulically shifted axle assembly allows variable increase in the drawbar load at the rear of the tractor, which means increased pulling power and traction.





MAXX Line Pump & Vacuum

Maxx Line tanks have customised equipment and they are distinguished by their robust design.

Suitable equipment variants can be selected for the widest range of applications and regions.



TWIST Line Pump

The Fliegl TWIST LINE is a state of the art slurry tanker, which not only goes easy on your soil but also offers unmatched manoeuvrability in the field

The central mounting of the axle allows it to be tilted by 11° against the tank body and thus putting the single axle tanker into dog walk.

Additional soil compression is prevented As soon as the axle turns, the optional three point hydraulic is carried along. An additional mounting for attachments is not necessary.



ALPHA LinePump & Vacuum

Alpha Line tankers not only provide special operating and ride comfort, they are also especially distinguished by their extensive basic equipment which uses the very latest technology. These tanks were designed for professional and intensive applications and can be fitted with the widest variety of additional options!



MAXX Line PLUS Pump & Vacuum

MAXX Line Plus tanks are impressive with their high power and extensive basic equipment. With their standard 750/60-R30.5 tyres, these tanks are gentle on the land. Practicality and efficiency were of particular importance to us when developing this tank line!



BIG FOOT Vacuum

What sets the Fliegl BIG FOOT tanker apart are the standard 800/60 R34 tires Especially in boggy and wet conditions slurry can be distributed with lowest ground pressure and best weight distribution

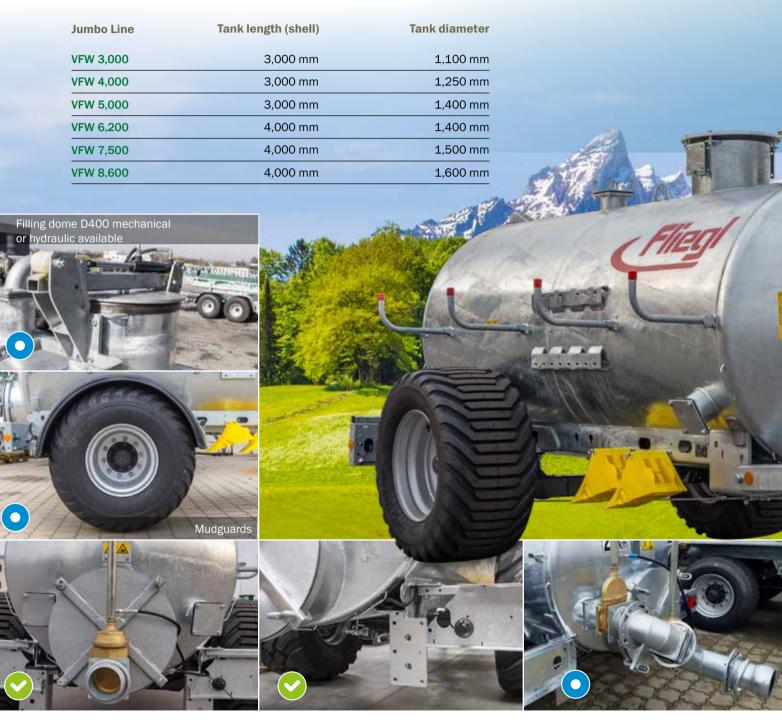
Wheel cut-outs are custom made depending on the tires

Even on steep slopes the hydraulic suspension offers superb ground adjustment while providing highest driving comfort



Vacuum tank Jumbo Line

Volume: 3,000 L to 8,600 L



Blind rear flange and pre-fitted for downhill emptying

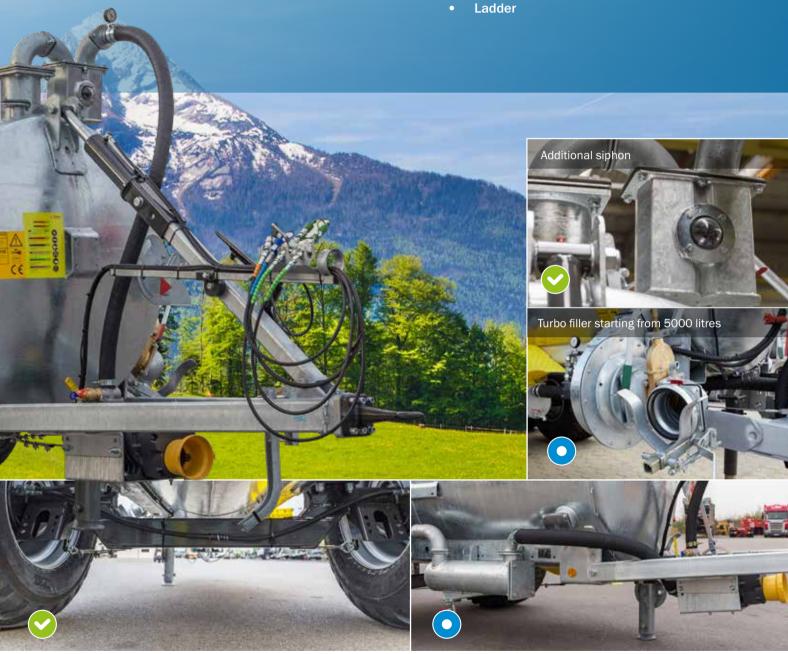
Mounting bracket for drag hose or drag shoe spreader as STANDARD starting from 5000 litres

Downhill emptying (with internal pipe)

Ideal for farms where there are very steep slopes

READY FOR ANY CHALLENGE!

- (starting from 5000 litre)
- Turbo filler (starting from 8.600 litre)
- Pneumatic internal agitator
- Hydraulic compressor changeover
- Top or bottom hitch
- Various brake systems
- Various drawbar eyes
- **Different speed versions**
- Different tyre variants
- **Different compressor variants**
- Various slurry distributors



With offset axle starting from 5000 litre: Low centre of gravity ensures optimal handling on slopes

Silencer with oil separator



Vacuum tank Jumbo Turbo Line

Volume: 3,000 L to 8,600 L



Mounting bracket for drag hose or drag shoe Downhill emptying spreader STANDARD starting from 5000L

Turbo filler starting from 8.600 litres

READY FOR ANY CHALLENGE!

- With 6" suction nozzle (starting from 5000 litre)
- Turbo filler (starting from 8.600 litre)
- Pneumatic internal agitator
- Compressor and centrifugal pump with hydraulic changeover
- Ladder

- Top or bottom hitch
- Various brake systems
- Various drawbar eyes
- Different speed versions
- Different tyre variants
- Various slurry distributors
- B-connection with manual slider



With offset axle starting from 5000 litre: Low centre of gravity ensures optimal handling on slopes





hydraulic 360 swivel

Vacuum or pump tank "Jumbo Line Plus"

Volume: 14,000 L to 18,000 L/ Tandem



Hydraulic forced steering

Available with 23 t or 24 t permitted total weight





Hydraulically shifted axle assembly



Optimal adaptation of drawbar load: stepless hydraulic, also for attaching slurry spreaders, such as a drag shoe spreader



Axles are displaced backward for field application

High drawbar load = more traction by the tractor



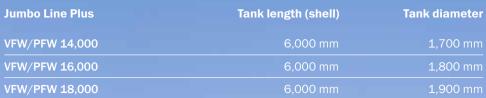
Axles are displaced forward for road application
Low drawbar load = high ride comfort and low wear



Hydraulic axle adjustment

High ride comfort and





"Jumbo Line Plus" vacuum tank



OPTIONAL FOR PFW/VFW

- Four-point hydraulics
- 5 or 6 way control blocks



Steered



Straight-ahead travel

Steering axle A BPW axle in the 410 x **180 mm** brake drum version is mounted as standard on all Jumbo Line Plus tanks



Ball head K80

Boogie SB floating assembly



Wheel arch and tyres Tyres 750/60-R30.5"

Optional: Rear tyres 750/60-R30.5" Front tyres 850/50-R30.5



Hydraulic drawbar suspension





Vacuum or pump tank "MAXX Line"

Volume: 5,000 L to 25,000 L

MAXX Line	Axles	Tank length (shell)	Tank Ø
VFW 5,000	1	3,000 mm	1,400 mm
VFW/PFW 6,200	1	4,000 mm	1,400 mm
VFW/PFW 7,500	1	4,000 mm	1,500 mm
VFW/PFW 8,600	1	4,000 mm	1,600 mm
VFW/PFW 10,600	1	5,000 mm	1,600 mm
VFW/PFW 8,600	2	4,000 mm	1,600 mm
VFW/PFW 10,600	2	5,000 mm	1,600 mm
VFW/PFW 12,000	2	5,000 mm	1,700 mm
VFW/PFW 14,000	2	5,500 mm	1,800 mm
VFW/PFW 16,000	2	6,000 mm	1,800 mm
VFW/PFW 18,000	2	6,000 mm	1,900 mm
VFW/PFW 20,000	3	7,000 mm	1,900 mm
VFW/PFW 25,000	3	7,450 mm	2,000 mm

Turbo filler with quick coupler





For pump tank: Hydraulic push cover

"TITAN" axle assembly up to MAXX Line 14,000 L

OPTIONAL FOR PFW/VFW

- Four-point hydraulics
- 5 or 6 way control blocks







"Gigant" axle assembly for MAXX Line 16,000 L



"Gigant Plus" axle assembly Starting from MAXX Line 18,000 L

Tyres up to 26.5" max. possible

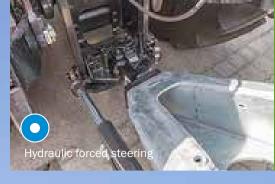
Blind flange as standard Front right, left and rear





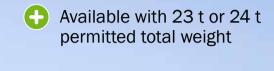


Volume: 14,000 L to 18,000 L/ Tandem



Pre-fitting for filling dome 400 mm

Foam separator











Wheel arch and tyres Tyres 750/60-R30.5" Optional: Rear tyres 750/60-R30.5" Front tyres 850/50-R30.5

"Gigant" axle assembly

for MAXX Line Plus 14,000 L

Vacuum/pump tank MAXX Line Plus	Tank length (shell)	Tank diameter
VFW/PFW 14,000	6,000 mm	1,700 mm
VFW/PFW 16,000	6,000 mm	1,800 mm
VFW/PFW 18,000	6,000 mm	1,900 mm



Ball head K 80

OPTIONAL FOR PFW/VFW

- Four-point hydraulics
- 5 or 6 way control blocks







Steering axle
A BPW axle in the 410 x 180 mm
brake drum version is mounted as
standard for all MAXX Line Plus
tanks



Hydraulic drawbar suspension

Top-class equipment for high impact





Vacuum or pump tank "Alpha Line"

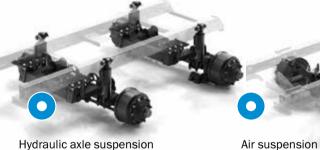
Volume: 10,600 L to 27,500 L

Tanks with maximum operating comfort and the very latest technology for professional and intensive applications





Boogie SB floating assembly (14,000 – 20,000 litre)



Hydraulic axle suspension (14,000–20,000 litre)





by mechanical axle shift (standard equipment) or hydraulic stepless adjustment (optional). Also for attaching slurry spreaders, such as a drag shoe spreader

Optimal adaptation of drawbar load



Axles are displaced backward for field application

High drawbar load = more traction by the tractor



Axles are displaced forward for road application
Less drawbar load = greater ride comfort and less wear



Hydraulic axle adjustment

Steering axle A BPW axle in the 410 x 180 mm brake drum version is mounted as standard for all Alpha Line Plus tanks





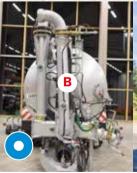




- Four-point hydraulics
- Fliegl Flow Control
- 5 or 6 way control blocks
- For vacuum tanks: Turbo filler at centre under tank
- Fliegl "Slurry Tanker"
- "Manure Sensing" nutrient measurement
- Hydraulic forced steering











B: Centre suction nozzle allows suction on either side

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Telescopic axle (only possible with Boogie SB floating assembly)

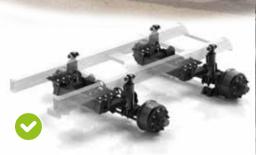
Alpha Line	Axles	Tank length (shell)	Tank Ø
VFW/PFW 10,600	1	5,000 mm	1,600 mm
VFW/PFW 12,000	1	5,000 mm	1,700 mm
VFW/PFW 14,000	1	5,000 mm	1,900 mm
VFW/PFW 14,000	2	6,000 mm	1,700 mm
VFW/PFW 16,000	2	6,500 mm	1,800 mm
VFW/PFW 18,000	2	6,500 mm	1,900 mm
VFW/PFW 20,000	2	7,000 mm	1,900 mm
VFW/PFW 23,000	3	7,450 mm	2,000 mm
VFW/PFW 25,000	3	7,450 mm	2,100 mm
VFW/PFW 28,000	3	7,450 mm	2,150 mm





Vacuum tank »BIG FOOT« Volume: 16.000 L and 18.000 L Hydraulic drawbar suspension on both sides







Tyres 800/60 R34

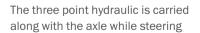
Hydraulic axle suspension

Turbo filler at centre under tank

Vacuum tank BIG FOOT	Tank length (shell)	Tank diameter
VFW 16.000	6.500 mm	1.800 mm
VFW 18.000	6.500 mm	1.900 mm









Hydraulic rotatable suction arm 8"

Central mounted axle with hydraulic steering for dog walk



Accessories

With Fliegl accessories, your tanker becomes an effective 'response vehicle' with which you have all factors under control.



LED lights



LED light package



Doppelumschaltventil



Load sensing or constant flow control block



Load sensing or constant flow control block



Digital flow meter



Plexiglas fill level indicator



Fill level indicator with float ball





Tyre pressure control system for soil-friendly field

applications, with one/two wire system

Piston compressor with up to 3.3 $\ensuremath{\text{m}}^3$ air output

- More comfortable coupling and uncoupling
- Tank can be completely emptied
- · Perfect suspension on the road



Ladder



Hydraulic filling dome Sizes: Ø 400 mm and Ø 600 mm Opens to right or left depending on mounting



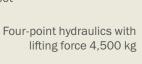
Digital tank meter



Robust drop support leg



Hydraulic supporting foot





Filling technology



Turbo filler with quick coupler (6" or 8")

On left, right or rear possible



Pump tank suction nozzle 8"



Turbo filler at centre under tank Suction process possible on right or left



Suction nozzle (optionally with 8" turbo filler)

Possible on left or right.

With docking station; pressure sequence valve and hydraulic compressor changeover



At A: suction arm 4500mm length, swivels to either side

At B: suction nozzle at centre can be set for suction on either side



Elefant 8" suction nozzle Possible on left or right.

Length 5000 mm with four-way control block Turbo filler with telescopic extension 1500 optional



Slurry couplings

All Fliegl tanks are fitted with the "Italian System" as standard.

THE "ITALIAN" SYSTEM







This system has a lever welded to the M-section. On the V-piece is a ball with a loose clamping ring.

This ring must have a sharp edge where the lever of the M-piece engages. If this edge has been machined to make it round, it is called the "Bazzoli Siegperle" system.

To determine the size of the Italian coupling, measure either the outside diameter of the V-piece or the inside diameter of the M-piece.

The outside diameter of the V-piece or the inside diameter of the M-piece must be the same for the M-piece and the V-piece. The coupling hose connector is measured by the outside or inside hose diameter.

Sizes of the Italian system M-piece (with 0-ring)

m-piece (with 0-ring)
inside dim. A 131 mm = 4"
inside dim. A 151 mm = 5"
inside dim. A 181 mm = 6"
inside dim. A 245 mm = 8"
inside dim. A 301 mm = 10"
inside dim. A 371 mm = 12"

V-piece (with loose clamping ring)

outside dim. B 130 mm / inside dim. A 100 mm = 4" outside dim. B 150 mm / inside dim. A 120 mm = 5" outside dim. B 180 mm / inside dim. A 150 mm = 6" outside dim. B 240 mm / inside dim. A 205 mm = 8" outside dim. B 300 mm / inside dim. A 254 mm = 10" outside dim. B 370 mm / inside dim. A 304 mm = 12"

Hose sizes

4" = 100 mm 5" = 120 mm 6" = 150 mm 8" = 200 mm 10" = 250 mm 12" = 300 mm



Quick coupler 6"



THE "PERROT" SYSTEM





This system has a movable ring on the **M-section to which the lever is attached**. The **V-section has a cone** and consists of only one part. To determine the size of the Perrot coupling, measure either the outside diameter of the V-piece or the inside diameter of the M-piece. The coupling hose connector is measured by the outside or inside hose diameter.

Sizes of the Perrot system M-piece (with 0-ring)

inside dim. A 150.0 mm = 4" inside dim. A 171.5 mm = 5" inside dim. A 203.5 mm = 6" inside dim. A 288.0 mm = 8"

Perrot V-piece

outside dim. B 155 mm / inside dim. A 108 mm = 4" outside dim. B 179 mm / inside dim. A 133 mm = 5" outside dim. B 211 mm / inside dim. A 159 mm = 6" outside dim. B 313 mm / inside dim. A 216 mm = 8"

Hose sizes

4" = 108 mm 5" = 133 mm

6" = 159 mm 8" = 216 mm

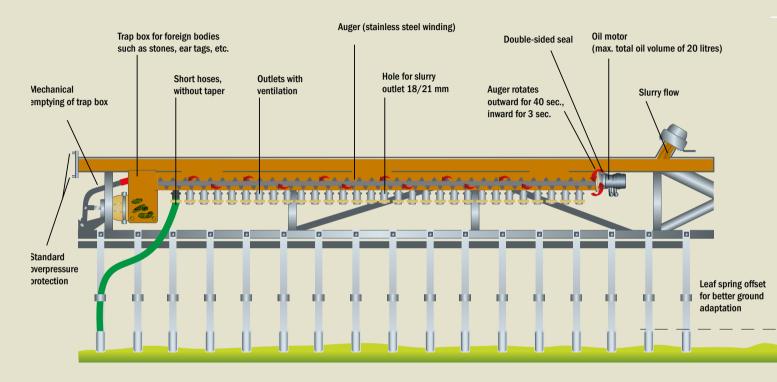




The Fliegl screw distributor a unique system!

Function

The function of the screw (50 - 60 rpm) is not to distribute slurry, but to carry any foreign objects outwards into the storage box. A timing relay is set so that the screw runs for about 40 seconds towards the outside and for 5 seconds towards the inside.





Invincible against foreign objects | No clogging



Uniform longitudinal and cross spreading - even on slopes



Storage box (with SKATE and GARANT) for foreign objects, emptied mechanically or hydraulically



Foreign objects such as pieces of wood, stones, ear tags etc. are separated effortlessly out of the system

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The possibility of the exact dispensing of manure fluency with the Fliegl **FlexFlow**

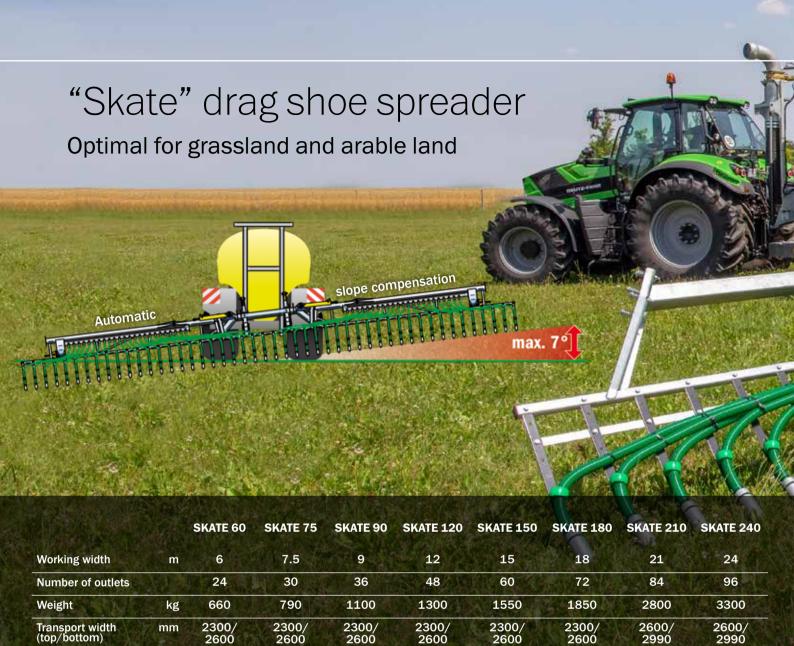
Fliegl's innovation Flex Flow is based on two half-shell troughs out of V2A material. The basic trough is equipped with an oval flow opening that has a length of 30mm and a width of 18mm. The bottom trough has round opening outlets which can be shifted.

By switching the bottom trough, the manure flow can be changed variably which makes a spread rate from 5 to 70 m³ per ha at equal driving speed possible.



Spring suspension kit of FlexFlow

- FlexFlow ensures perfect longitudinal and lateral distribution for every application rate
- With the help of FlexFlow it is possible to adapt to a flow rate that has been changed by pump speed
- Any form of manure or digestate can be applied with FlexFlow, regardless of viscosity, fibre content or dry matter content
- FlexFlow enables the application of extremely low slurry volumes with above average nutrient levels
- FlexFlow provides a flexible choice of driving speed in terms of traction requirements and ground conditions





m



opt. 18/15

21/15

24/18

Fliegl SKATE 210 with pendulum frame for better slope compensation (only for SKATE 210/240)

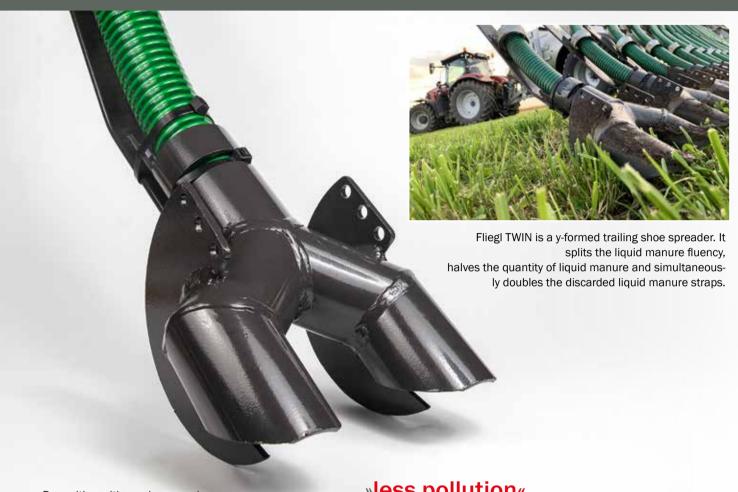
Boom ends folded hydraulically



- Specially tilted swivel joints ensure an extremely slim transport position
- Outstanding slurry distribution, low maintenance and low oil requirement (max. 201) thanks to the Fliegl screw distributor
- No kinks on the outlet hoses when folding in/out, thanks to the special folding mechanism
- Sprung injector shoes for optimal ground adaptation
- Mechanical or hydraulic boom section control possible
- Mechanical shut-off of individual hose outlets possible
- Simple mounting directly on the tank possible
- Comfort control with automatic folding and headland function as standard
- Controlled by a tractor control unit (pressureless return required) or by Load Sensing
- Control through Isobus possible
- Narrow hose spacing of 250 mm, therefore optimal for grassland and arable land

Thick manure straps are a thing of the past with the Fliegl TWIN!

Fliegl TWIN



Deposition with previous nozzle (undivided manure strap)





»less pollution«, more infiltration!

Advantages

- Less fodder contamination
- Higher efficiency in spreading liquid manure
- Marvelous lateral and longitudinal distribution
- Increase of substratum infiltration

Deposition with Y-nozzle TWIN (divided manure strap)

Control

SKATE

Control through ISOBUS



"EASY" comfort control (standard equipment)



- Relieves the driver and prevents operator errors
- The ergonomic control panel is backlit and can be easily disconnected from the cable by the connector, so it can be left in the tractor
- Folding of the distributor arms is monitored by sensors at all positions, so the folding is synchronised and dampened even on slopes.

AUTOMATIC FOLDING

The distributor...

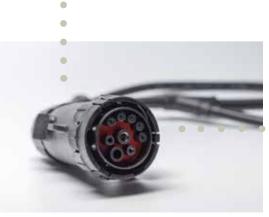
- is lifted out of the mechanical transport lock
- folds the distributor arms backwards
- is lowered into working position

AUTOMATIC SPREADING

- Gate slider opens
- Spreading augers start working

AUTOMATIC HEADLAND FUNCTION

- Spreading augers switch off
- Gate slider closes
- Distributor folds up





EASY comfort control panel

ISOBUS adapter cable allows quick changeovers

Using the ISOBUS adapter, the SKATE can be operated either with the standard EASY comfort control or through an ISOBUS terminal. So it is easy to change between older and newer tractors.

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Storage box opens mechanically or hydraulically

Specially tilted swivel joints

Control block with oil filter



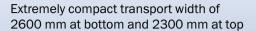
Special folding mechanism prevents any kinking of the outlet hoses

Automatic slope compensation for optimal ground adaptation

Hose spacing 250mm



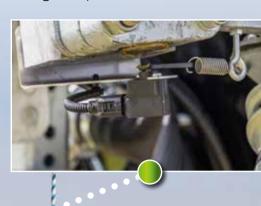
Extremely low overall height



Angle sensors on left and right for even folding on slopes











Coulter pressure 8kg



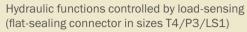
Uniform spread quality with short outlet hoses



Integrated overpressure protection

Accessories...

Boom width section control mechanical or hydraulic







Can be upgraded for extremely high fibre content: shredding cutter to be mounted centrally between tank and distributor (oil capacity 60l required). Controlled directly from the towing vehicle control unit

With support wheels for quiet working at higher ground speeds





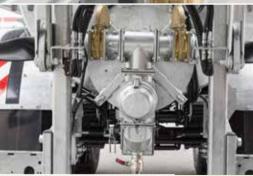


Holder for suction line

(shown here in the folded-up state)



Hydraulic emptying of trap box



T-piece for an additional outlet (e.g. for a baffle plate spreader) in combination with lateral shut-off.

Ideal for upgrades



Included with delivery: Pre-assembled drag shoe spreader, control panel and control block, H-frame, transport lock, T-piece with flexible hoses for the slurry feed



Retrofit: pay attention to the drawbar load and permitted total weight of the existing tanker

...even for tanks from other manufacturers





Working widths 8.50 / 12.00 / 15.00 m

Package-type folding ensures extremely compact transport dimensions with 2.60 metre width and max. 3.80 metre height

equipped with the proven Fliegl screw distributor

drip-stop at the headland by hydraulic fold-up

Tow bar

- Hydraulically swivelled tow bar allows exact guiding of the slurry hose and ensures comfortable turning at the headland
- Centred by two chains of equal length
- The spreader can also be easily used in combination with a self-propelled slurry carrier, irrespective of the container size
- The Fliegl Flow Control digital flow meter cam be used to ensure even slurry application



Ideal for selfpropelled systems

The Fliegl SNAKE can be connected to any self-propelled slurry distributer. That makes it an unmatched system in its flexibility.

The distributer folds behind the vehicle. Form and size of the tank do not matter in this case.

Additional supports on the tank are not necessary. The dribble bars do not reach to the cab which improves visibility significantly.

The very compact construction makes the SNAKE a safe and reliable system, especially during road transport.



"Garant" drag shoe spreader









Garant 150 loose

Screw distributor control unit

Pressure sequence valve

Working width 6 - 18,00 m

- Slurry is deposited in strips directly on the soil surface
- With the proven Fliegl screw distributor
- Foreign objects are carried automatically into the storage box
- Layout and structure of the frame and distributor arms as on the Fliegl SKATE
- Controlled by two tractor control units (1x for folding mechanism, 1x for screw distributor)

- Required oil capacity 20I max.
- Lowest power requirement





Optionally with the "Easy" comfort control

"Vario-Disc" slurry injector

Patented system for perfect incorporation in grassland and arable land





Stepless disc adjustment



Because of the slanted position of the discs, the soil is opened up so that the slurry can be directly injected



Working widths 3,00 m, 5,60 m and 7,15 m $\,$

- Grassland and arable land application
- Can be mounted on almost any slurry tank
- With the proven Fliegl screw distributor
- Frame fully galvanised
- Maintenance-friendly

- Hydraulic folding
- Adjustable support wheels
- Sturdy angular contact roller bearings
- Disc diameter 530 mm



Targeted depositing of the slurry under the turf

"Mole" compact disc harrow

Easy-pull soil cultivation and targeted incorporation of slurry in one operation



Working widths 3,00 m, 5,70 m and 6,90 m

- With the proven Fliegl screw distributor
- With the large-dimensioned coulter discs, the subsoil is worked over and the slurry is incorporated in a single operation
- Hydraulic folding (for working widths 4.50 m and 6.00 m)
- Large adjustable support wheels
- Sturdy angular contact roller bearings
- Disc diameter: 510 mm

"GUG" slurry cultivator

Powerful soil cultivation and targeted incorporation of slurry in a single operation







Working widths 3,00 m, 4,50 m and 6,00 m

- For undeveloped farmland
- Robust cultivator tines for the toughest jobs
- Replaceable double-heart coulters
- Can be mounted on almost any slurry tank
- With the proven Fliegl screw distributor
- Frame fully galvanised

- Hydraulic folding (for working widths 4.50 m and 6.00 m)
- Maintenance-friendly
- Easy to operate
- Height-adjustable support wheels

Other spreading systems

Follow the national regulations on the use of fertilisers









Wide spreader

Combi-spreader - folding

Hydraulic pendulum spreader with working width from 12 to 18 m.



Impact head, pendulum or nozzle boom spreaders: in addition to ground level injection systems, we also offer classic spreading systems such as impact head/wide area or combi-spreaders.

Pendulum spreader for coarse droplet application







Nozzle boom spreader with maximum working width 21 - 30 m $\,$



Fliegl Slurry Tanker

Perfection in slurry spreading

Fliegl Slurry Tanker (FST) is a control system which allows all of the functions of a slurry tanker to be controlled comfortably through an ISOBUS display

- Makes slurry application easier
- Increases operator comfort and safety when applying fertilisers.
- The control system uses the existing ISOBUS display, so there is no need for an additional control
 panel in the tractor.
- Compatible with any ISOBUS display (has the AEF certificate).
- Load-sensing-enabled as standard, i.e. hydraulic functions are always supplied only with the quantity
 of oil actually required; this not only reduces heating of the oil, but also fuel consumption.

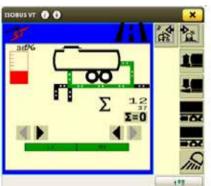


It has three different modes:

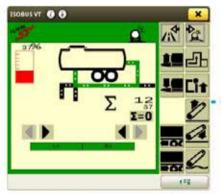
road, farm and field operation. The reason for this is that only certain functions are available in each mode. For example in farm mode, which is intended for filling operations, the three-way gate slider at the rear cannot be operated. This prevents any undesired operator errors. Field mode may have one or more pages, depending on the number of functions the tank has.



Farm operating mode



Road operating mode



Field operating mode



Hydraulic control



ISOBUS

Precision spreading Flow Control in combination with flow meter



Fliegl Flow Control

FFC without variable speed pump

On the version without variable speed pump, you can easily set the spreading rate in m³/ha. The optimal speed to obtain the desired spreading rate is calculated and displayed. This version is therefore suitable mainly for flatland areas.

FFC with bypass system (for pump tank only)

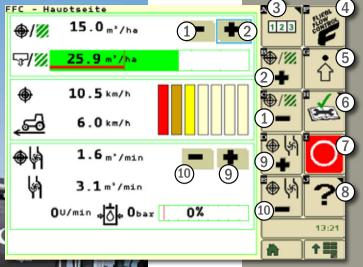
If the engine is operating at full capacity and the recommended speed can no longer be obtained when going uphill, the PTO speed must be reduced to avoid excess application of fertiliser. With the new bypass system from Fliegl, manure is simply re-directed from the feed line back into the tank. This means there is less manure at the dribble bar and excess application is avoided. The bypass is controlled automatically by the system as required.

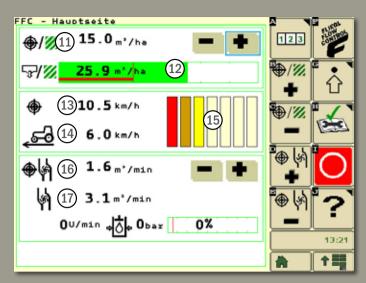
FFC with controlled discharge acceleration (for vacuum tank only)

With this system the tank is emptied by a discharge accelerator. This is operated by a separate oil motor independently of PTO speed. As well as setting the spreading rate in m³/ha, you can also adjust the spreading rate in m³/min. If the diesel engine is running at full capacity when going uphill, then the calculated optimal travel speed can no longer be obtained. So you can reduce the flow rate per minute and the optimal travel speed for this flow rate is recalculated. In this way you can also obtain an even spread pattern when going uphill.

Control by travel speed

Automatic speed control according to flow rate and selected spreading rate by Isobus Class 3 functionality (only possible with certain tractor manufacturers).

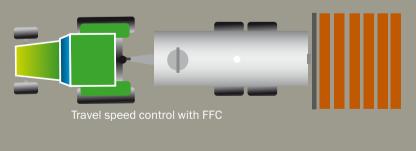


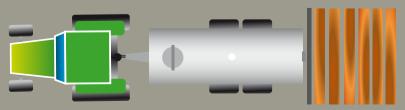


- 1 Reduce spreading rate
- 2 Increase spreading rate
- 3 "Totals": Information on total amount of slurry spread, duration, etc.
- 4 Main page
- 5 Settings
- 6 Diagnostics
- 7 Start / Stop
- 8 Help
- 9 Increase flow rate
- 10 Reduce flow rate

- 11 Enter the desired spreading rate
- Green: current spreading rate Red: desired spreading rate
- Target speed calculated to maintain desired spreading rate
- 14 Current travel speed
- Left elements coloured = drive faster
 Left elements coloured = drive slower
- 16 Set the desired flow rate
- 17 Current flow rate

Uniform spreading result with Fliegl Flow Control





With conventional rotary vane control



High flexibility

- Available in 6" or 8"
- Simple-to-use suction nozzle
- With integrated flow meter (records the total amount of nutrients)
- Proven HarvestLab Sensor from John Deere for measuring biogas fermentation residues, cattle and pig manure (extendible for measurements at the shredder)
- Measurement of dry weight total nitrogen (N), ammonium nitrogen (NH4-N), phosphorus (P205), potassium (K20), volume, mass
- Software can be used to set up customers and vehicles, and create measurement reports
- Data transfer by W-LAN router
- Comfortable transport with forklift pockets, three-point or Euro attachment



John Deere HarvestLab 3000

HarvestLab™ 3000 uses Near-InfraRed (NIR) spectroscopy to determine the various constituents present in harvest, silage or slurry materials, in less than a second.

DLG-Prüfbericht 6886

DLG-Prüfbericht 6809

The new HarvestLab™ 3000 hardware is state-of-the-art technology and is based on millions of hours of farmland experience. With its 12% broader wavelength spectrum, it achieves greater accuracy and provides more than 4,000 measurement points per second. You are not just given the result of a random sample check, but statistically reliable data in real time.



As manure is often very heterogeneous, you never actually know how much nutrients are being spread per hectare at a given time. With Manure Sensing, the amount of nutrients (N, NH4, P, K) in the manure is measured in real time. If you know the nutrient concentration of the manure in the tank, you can adapt the application amount to the amount of nutrients required for the area. In combination with **Fliegl Flow Control**, the application amount can be adjusted in kg N/ha. In this way you optimise the nutrient balance, make the best use of the nutrients in your manure and maximise your potential yield. It is easier to create a nutritional balance as, as with mineral fertilisation, you know exactly how many kg of which nutrient are being spread per hectare. If the manure is used optimally thanks to Manure Sensing, there are also savings to be made with mineral fertilisers in most cases.





distribution

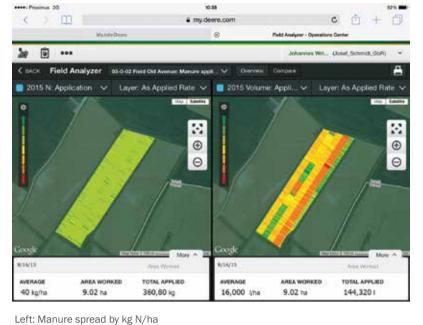
right of the picture shows the N

John Deere HarvestLab 3000 uses Near-InfraRed (NIR) spectroscopy to determine the various constituents present in harvest, silage or slurry materials, in less than a second.



John Deere Product: Connected Nutrient Management





- Real-time measurement of N. P. K. NH4, dry mass and volume, immediately in front of the applicator
- Precise spreading of organic and mineral N and P fertilisers according to requirement
- Automatic tractor speed adaptation (only for John Deere CVT tractors with ISOBUS Class 3)
- Documentation:
 - · Volume applied
 - · Nutrients applied

even N-distribution on the field Right: Manure distribution in litres/ha uneven N-distribution inside a tank

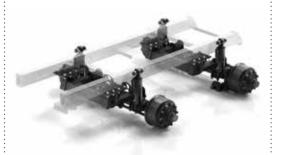
(total per field and specific sub-areas)

- Utilises the entire nutrient potential of the manure while at the same time complying with statutory regulations. The advantages are clear: Yields and product quality are maximised while reducing the costs for mineral fertilisers
- Maximum control range and rapid response by speed variation and - in the second instance - by adjustment of the flow rate by Fliegl Flow Control
- Combines the know-how and technologies of all our innovation partners and thus enables nutrient application which complies with German regulations
- Maximised yield potential

Chassis technology

For secure handling, even in extreme driving situations!





Hydraulic axle suspension



Boogi floating assembly, rigid





Titan tandem assembly for best ground adaptation



Air suspension

Fliegl axle shift



Optimal adaptation of drawbar load by mechanical axle shift or hydraulic stepless adjustment (optional).

Also for attaching slurry spreaders, such as a drag shoe spreader



Axles are displaced backward for field application

High drawbar load = more traction by the tractor



Axles are displaced forward for road application

Less drawbar load = greater ride comfort and less wear



DIN drawbar eye

D40

"Gigant"



"Gigant Plus"

Fliegl tank and load counter

»Beacon Counter HD«



Example with the beacon mounted at the tank fill level indicator

Beacons are paradoxical: They are small, simple and cost-effective, but at the same time they are rather brilliant. The inconspicuous-looking transmitters are based on simple Bluetooth technology and, when used intelligently, open up whole new possibilities for data acquisition. Fliegl set up its new tank counter as a beacon which can count and store in memory - tank metering has never before been so simple, accurate, wireless and maintenance-free.

At the heart of the Fliegl tank counter is a beacon which is mounted at the pivot point of a float in the slurry tank. If the tank is being filled, the beacon registers the filling at an upper measurement point. If the tank is being emptied, the beacon registers the emptying at a lower measurement point. One filling and one emptying is counted as one tank load.





Example with the beacon mounted on a round baler









Apps "for BEACON Counter HD"

The beacon monitoring app - the beacon extends the already numerous possible applications of a smartphone. With this app you can read off all the data stored by the beacon.





Android



Tanks in all sizes and power variants









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e-Mail: info@fliegl.com

We are Fliegl.

Dimensions, weights, and technical data are subject to change. Some illustrations show special equipment. Slurry technology 11/2019