We are Fliegl.

Tanks and slurry technology

@facebook twitter www.fliegl.com GB
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.
Innovative, top-quality products

Just because an idea is new, it doesn’t necessarily mean that it’s a good one. At Fliegl, we rigorously check every single product. We know the demands of the market and we are in constant contact with the practitioners. Our engineers and designers use the very latest CAD systems to develop products that are consistent down to the last detail and provide clear practical benefits. Innovations from Fliegl Agrartechnik are always concrete solutions for real tasks.

German quality in action worldwide

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.
Compressors available with the widest variety of power levels*

The compressor is lubricated fully automatically by a drip oiler.

Battioni MEC II 11,000 L heat-resistant
Battioni Ballast 13,500 L heat-resistant

Hydraulic bell gate for vacuum tank, robust and impervious to residual matter (ideal for litter manure)

Foam separator starting from 10,600 litres

Suction nozzle – to left or right – for easy suction
Turbo filler on left or right side possible
Hydraulic filling dome (400 mm or 600 mm)
Vacuum tank VFW
Volume: 3,000 L to 30,000 L
Ideal for powerful slurry application

- Impervious to high proportions of foreign objects
- Can be combined with any Fliegl slurry spreader
- Suitable for almost any substrate, as well as for water

Additional siphon up to 8,600 litre
Hydraulic compressor changeover

Mechanical filling dome Ø 400 mm
Optimal homogenisation of the slurry
Left: Hydraulic internal agitator with paddle screw
Right: Air agitator

Discharge accelerator with or without shredding cutter

Standard equipment
Optional

* The illustrations show just a few examples from our range
Pump tank PFW
Volume: 5,000 L to 27,500 L

- Pump case with sight glass and foreign object separator
- Control panel for tank + distributor
- Sensor for automatic pump changeover
- External control of the suction/pump slider
- Suction nozzle 8
- Tapered three-way gate slider with mechanical flow adjustment

Perfect technology for high power suction
Eccentric screw pump, 4,000 or 6,000 litre

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 the tank.

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
High flow rates

Low maintenance with long running times

Hydraulic push cover

Fill level indicator on the top of the tank
High pressure tank HFW

Volume: 5,000 L to 25,000 L

The ideal solution for farms with external filling.

Centrifugal pump 6,500 L/min.

Sprinkler nozzle

Rinsing line (stir function)

Standard equipment  Optional
Poly-Line tanker
Volume: 6,000 L to 18,500 L
Available as pump tank, high-pressure or transport tank

Mounting bracket for drag shoe spreader and four-point hydraulics

PFW 9000 with Skate 90 drag shoe spreader

PFW 15,500 with “mole” slurry disc harrow 6 m

PolyLine available in numerous equipment variants, e.g. with telescopic axle
• Ground pressure shifting
• Extremely high stability on slopes
GFK tank – Made in Germany
Easy to clean
Extremely low centre of gravity
Sturdy frame construction
Low net weight

High-pressure tank HFW 12.500 with centrifugal pump and sprinkler nozzle
Boogie SB floating assembly with 18,500 L
A show of strength
AGRO TRUCK tanker trailer
25,000 l or 27,500 l

Tank mounting for hook lift

STF 27,500 in vacuum version

in pump version with Vogelsang rotary piston pump

STF 25,000 three-axle with transfer arm
Tanker trailer STF 25,000 l and 27,500 l

- 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

Ideal for combined transport

Either pump or vacuum version
High performance
Simple technology
High transfer capacity

Road X Poly Line 29000 Tridem
- Push cover for external filling
- Transfer arm 6", length 6 m incl. hopper for storage
- Riser pipe with docking funnel 8"
- Hydraulic forced steering
- Tyres: 445/65-R22.5

Centrifugal pump 6,500 L/min.

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

HFW 16,000 Tandem with centrifugal pump and transfer arm, swivels to either side
The slurry suppliers
Tanker trailers for your tractor vehicle

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.

**Fliegl Line**
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.

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!

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.

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.

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!
Vacuum tank

**Jumbo Line**

Volume: 3,000 L to 8,600 L

<table>
<thead>
<tr>
<th>Jumbo Line</th>
<th>Tank length (shell)</th>
<th>Tank diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>VFW 3,000</td>
<td>3,000 mm</td>
<td>1,100 mm</td>
</tr>
<tr>
<td>VFW 4,000</td>
<td>3,000 mm</td>
<td>1,250 mm</td>
</tr>
<tr>
<td>VFW 5,000</td>
<td>3,000 mm</td>
<td>1,400 mm</td>
</tr>
<tr>
<td>VFW 6,200</td>
<td>4,000 mm</td>
<td>1,400 mm</td>
</tr>
<tr>
<td>VFW 7,500</td>
<td>4,000 mm</td>
<td>1,500 mm</td>
</tr>
<tr>
<td>VFW 8,600</td>
<td>4,000 mm</td>
<td>1,600 mm</td>
</tr>
</tbody>
</table>

Filling dome D400 mechanical or hydraulic available

Mudguards

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

Silencer with oil separator

### READY FOR ANY CHALLENGE!

- 6" suction nozzle (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
- Ladder

Additional siphon

Turbo filler starting from 5000 litres

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

<table>
<thead>
<tr>
<th>Jumbo Turbo Line</th>
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<td>4,000 mm</td>
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</tr>
</tbody>
</table>

Filling dome D400 mechanical or hydraulic available

Impact head spreader over centrifugal pump

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

Downhill emptying

Turbo filler starting from 8,600 litres

Ideal for very steep slopes with its sprinkler nozzle
With offset axle starting from 5000 litre: Low centre of gravity ensures optimal handling on slopes

- 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

- Hydrualic up/down adjustment
- Hydraulic 360° swivel

READY FOR ANY CHALLENGE!

Compressor and centrifugal pump combination

Tank tipping cylinder with drop support leg starting from 5000L

With 6" suction nozzle (starting from 5000 litre)

Hydraulic sprinkler nozzle
Vacuum or pump tank
“Jumbo Line Plus”
Volume: 14,000 L to 18,000 L/ Tandem

+ Available with 23 t or 24 t permitted total weight

Optional in the “Natural farming” special edition

Push cover 700 mm x 700 mm

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
High ride comfort and stable handling on slopes

<table>
<thead>
<tr>
<th>Jumbo Line Plus</th>
<th>Tank length (shell)</th>
<th>Tank diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>VFW/PFW 14,000</td>
<td>6,000 mm</td>
<td>1,700 mm</td>
</tr>
<tr>
<td>VFW/PFW 16,000</td>
<td>6,000 mm</td>
<td>1,800 mm</td>
</tr>
<tr>
<td>VFW/PFW 18,000</td>
<td>6,000 mm</td>
<td>1,900 mm</td>
</tr>
</tbody>
</table>

“Jumbo Line Plus” vacuum tank

**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 on all Jumbo Line Plus tanks

Ball head K80

Steered

Straight-ahead travel

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

For vacuum tank:
Turbo filler at centre under tank

Suction nozzle 8”
Vacuum or pump tank

“MAXX Line”

Volume: 5,000 L to 25,000 L

<table>
<thead>
<tr>
<th>MAXX Line</th>
<th>Axles</th>
<th>Tank length (shell)</th>
<th>Tank Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>VFW 5,000</td>
<td>1</td>
<td>3,000 mm</td>
<td>1,400 mm</td>
</tr>
<tr>
<td>VFW/PFW 6,200</td>
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<td>1</td>
<td>4,000 mm</td>
<td>1,600 mm</td>
</tr>
<tr>
<td>VFW/PFW 10,600</td>
<td>1</td>
<td>5,000 mm</td>
<td>1,600 mm</td>
</tr>
<tr>
<td>VFW/PFW 8,600</td>
<td>2</td>
<td>4,000 mm</td>
<td>1,600 mm</td>
</tr>
<tr>
<td>VFW/PFW 10,600</td>
<td>2</td>
<td>5,000 mm</td>
<td>1,600 mm</td>
</tr>
<tr>
<td>VFW/PFW 12,000</td>
<td>2</td>
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<td>6,000 mm</td>
<td>1,900 mm</td>
</tr>
<tr>
<td>VFW/PFW 20,000</td>
<td>3</td>
<td>7,000 mm</td>
<td>1,900 mm</td>
</tr>
<tr>
<td>VFW/PFW 25,000</td>
<td>3</td>
<td>7,450 mm</td>
<td>2,000 mm</td>
</tr>
</tbody>
</table>

Turbo filler with quick coupler

OPTIONAL FOR PFW/VFW

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

For pump tank: Hydraulic push cover

“TITAN” axle assembly up to MAXX Line 14,000 L

“Gigant” axle assembly for MAXX Line 16,000 L

24
Tyres up to 26.5” max. possible

For vacuum tank:
- Foam separator
- Pre-fitting for filling dome 400 mm

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

Ball head K80

Suction nozzle 8"

Drawbar suspension

Versatile and robust

Standard equipment

Optional
Vacuum or pump tank
“MAXX Line Plus”
Volume: 14,000 L to 18,000 L/ Tandem

Available with 23 t or 24 t permitted total weight

For vacuum tank:
Turbo filler at centre under tank

“Gigant” axle assembly for MAXX Line Plus 14,000 L
“Gigant Plus” axle assembly for MAXX Line Plus 16,000 L and 18,000 L

Wheel arch and tyres
Tyres 750/60-R30.5*
Optional: Rear tyres 750/60-R30.5*
Front tyres 850/50-R30.5
**Top-class equipment for high impact**

### Vacuum/pump tank MAXX Line Plus

<table>
<thead>
<tr>
<th>Vacuum/pump tank MAXX Line Plus</th>
<th>Tank length (shell)</th>
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</table>

### Optional for PFW/VFW

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

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**“MAXX Line Plus” pump tank**

- **Push cover**
  - 700 mm x 700 mm

**Steering axle**

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

### Standard equipment

- Ball head K 80

### Optional equipment

- Hydraulic drawbar suspension

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**Steered**

**Straight-ahead travel**
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

**LARGE SELECTION OF AXLE ASSEMBLIES**

- Boogie SB floating assembly (14,000 – 20,000 litre)
- Hydraulic axle suspension (14,000–20,000 litre)
- Air suspension (14,000 – 27,500 litre)

**Hydraulically shifted axle assembly**

- Optimal adaptation of drawbar load by mechanical axle shift (standard equipment) 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.

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

**OPTIONAL FOR PFW/VFW**

- 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

### Alpha Line

<table>
<thead>
<tr>
<th>Axles</th>
<th>Tank length (shell)</th>
<th>Tank Ø</th>
</tr>
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<tbody>
<tr>
<td>VFW/PFW 10,600</td>
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<td>VFW/PFW 12,000</td>
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<td>2,100 mm</td>
</tr>
<tr>
<td>VFW/PFW 28,000</td>
<td>7,450 mm</td>
<td>2,150 mm</td>
</tr>
</tbody>
</table>

Steered

Straight-ahead travel

Telescopic axle (only possible with Boogie SB floating assembly)
Vacuum tank »BIG FOOT«

Volume: 16,000 L and 18,000 L

<table>
<thead>
<tr>
<th>Vacuum tank BIG FOOT</th>
<th>Tank length (shell)</th>
<th>Tank diameter</th>
</tr>
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<tbody>
<tr>
<td>VFW 16.000</td>
<td>6.500 mm</td>
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</tr>
</tbody>
</table>

Tyres 800/60 R34

Hydraulic axle suspension

Turbo filler at centre under tank

Hydraulic drawbar suspension on both sides
Fliegl TWIST is a single-axle manure tanker with crab steering. TWIST does not generate crab steering through Ackerman steering but through a turnable steering system. Thereby the axle as a whole is twisted hydraulically around the vertical axle until up to 11°. Thus an offset of the chassis which has an around 4 m length is possible at approximately 1m (965 mm). As a result, the chassis can drive completely offset of the tractor.

The three point hydraulic is carried along with the axle while steering

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
- 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

Robust drop support leg

Hydraulic supporting foot

Drawbar suspension

Tyre pressure control system for soil-friendly field applications, with one/two wire system

Piston compressor with up to 3.3 m³ air output

Digital tank meter

Four-point hydraulics with lifting force 4,500 kg
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
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**

<table>
<thead>
<tr>
<th>M-piece (with O-ring)</th>
<th>V-piece (with loose clamping ring)</th>
<th>Hose sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>inside dim. A 131 mm = 4”</td>
<td>outside dim. B 130 mm / inside dim. A 100 mm = 4”</td>
<td>4” = 100 mm</td>
</tr>
<tr>
<td>inside dim. A 151 mm = 5”</td>
<td>outside dim. B 150 mm / inside dim. A 120 mm = 5”</td>
<td>5” = 120 mm</td>
</tr>
<tr>
<td>inside dim. A 181 mm = 6”</td>
<td>outside dim. B 180 mm / inside dim. A 150 mm = 6”</td>
<td>6” = 150 mm</td>
</tr>
<tr>
<td>inside dim. A 245 mm = 8”</td>
<td>outside dim. B 240 mm / inside dim. A 205 mm = 8”</td>
<td>8” = 200 mm</td>
</tr>
<tr>
<td>inside dim. A 371 mm = 12”</td>
<td>outside dim. B 370 mm / inside dim. A 304 mm = 12”</td>
<td>12” = 300 mm</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>M-piece (with O-ring)</th>
<th>Perrot V-piece</th>
<th>Hose sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>inside dim. A 150.0 mm = 4”</td>
<td>outside dim. B 155 mm / inside dim. A 108 mm = 4”</td>
<td>4” = 108 mm</td>
</tr>
<tr>
<td>inside dim. A 171.5 mm = 5”</td>
<td>outside dim. B 179 mm / inside dim. A 133 mm = 5”</td>
<td>5” = 133 mm</td>
</tr>
<tr>
<td>inside dim. A 203.5 mm = 6”</td>
<td>outside dim. B 211 mm / inside dim. A 159 mm = 8”</td>
<td>6” = 159 mm</td>
</tr>
<tr>
<td>inside dim. A 288.0 mm = 8”</td>
<td>outside dim. B 313 mm / inside dim. A 216 mm = 8”</td>
<td>8” = 216 mm</td>
</tr>
</tbody>
</table>
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
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.

- Adjusting mechanism via mechanic spindle
- 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**
**“Skate” drag shoe spreader**
Optimal for grassland and arable land

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

<table>
<thead>
<tr>
<th></th>
<th>SKATE 60</th>
<th>SKATE 75</th>
<th>SKATE 90</th>
<th>SKATE 120</th>
<th>SKATE 150</th>
<th>SKATE 180</th>
<th>SKATE 210</th>
<th>SKATE 240</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working width</td>
<td>m</td>
<td>6</td>
<td>7.5</td>
<td>9</td>
<td>12</td>
<td>15</td>
<td>18</td>
<td>21</td>
</tr>
<tr>
<td>Number of outlets</td>
<td></td>
<td>24</td>
<td>30</td>
<td>36</td>
<td>48</td>
<td>60</td>
<td>72</td>
<td>84</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>660</td>
<td>790</td>
<td>1100</td>
<td>1300</td>
<td>1550</td>
<td>1850</td>
<td>2800</td>
</tr>
<tr>
<td>Transport width (top/bottom)</td>
<td>mm</td>
<td>2300/2600</td>
<td>2300/2600</td>
<td>2300/2600</td>
<td>2300/2600</td>
<td>2300/2600</td>
<td>2300/2600</td>
<td>2300/2990</td>
</tr>
<tr>
<td>Boom ends folded hydraulically</td>
<td>m</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>opt. 18/15</td>
<td>21/15</td>
</tr>
</tbody>
</table>
• Solid design but nevertheless low net weight through special frame and distributor construction
• No loss of drawbar load as the drag shoe spreader rests on the ground
• High coulter pressure of 8 kg per injector shoe
• With automatic slope compensation as standard
• Specially tilted swivel joints ensure an extremely slim transport position and therefore good all round vision
• Very narrow transport width of about 2,300 mm at the top
• Automatic drip stop as the distributor is swivelled up by comfort control
• Outstanding slurry distribution, low maintenance and low oil requirement (max. 20l) 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
Fliegl TWIN

**Advantages**

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

Fliegl TWIN is a Y-formed trailing shoe spreader. It splits the liquid manure fluency, halves the quantity of liquid manure and simultaneously doubles the discarded liquid manure straps.

»*less pollution*,
more infiltration!

Deposition with Y-nozzle TWIN (divided manure strap)

Deposition with previous nozzle (undivided manure strap)
Control

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

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.
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

Extremely compact transport width of 2600 mm at bottom and 2300 mm at top

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

Hydraulic functions controlled by load-sensing
(flat-sealing connector in sizes T4/P3/LS1)

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

Mechanical shut-off of individual hoses

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

...even for tanks from other manufacturers

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

Also suitable for third-party GFK tankers
Fliegl »Snake«
variabel einsetzbar für Gülleverschlauchung

- 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 can be used to ensure even slurry application
Ideal for self-propelled systems

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

The distributor 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

- 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)

Working width 6 - 18.00 m

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

Optionally with the "Easy” comfort control

Garant 150 loose

Screw distributor control unit

Pressure sequence valve
“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

Targeted depositing of the slurry under the turf

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
“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

Injection directly into the soil at about 12 cm
"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

Injection directly into the soil at about 10-20 cm
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 combispreaders.
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.
**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).
Reduce spreading rate
Increase spreading rate
"Totals": Information on total amount of slurry spread, duration, etc.
Main page
Settings
Diagnostics
Start / Stop
Help
Increase flow rate
Reduce flow rate
Enter the desired spreading rate
Green: current spreading rate
Red: desired spreading rate
Target speed calculated to maintain desired spreading rate
Current travel speed
Left elements coloured = drive faster
Left elements coloured = drive slower
Set the desired flow rate
Current flow rate

Uniform spreading result with Fliegl Flow Control

Travel speed control with FFC
With conventional rotary vane control
Fliegl Nutrient Measure Station
Active on-the-spot measurement of nutrients in real time

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 (NH\textsubscript{4}-N), phosphorus (P\textsubscript{2}O\textsubscript{5}), potassium (K\textsubscript{2}O), 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. 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.
• 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 (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
The Fliegl swap system
Slurry tank superstructure optional for swap chassis.

For secure handling, even in extreme driving situations!

Cylinder for hydraulic lifting gear

Drawbar eye with pivot lug 51mm

Ball head K80

Rotating drawbar eye 50mm

Piton-Fix

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

“Gigant”

“Gigant Plus”

DIN drawbar eye
D40
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.
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.
Tanks in all sizes and power variants