Fliegl
AGRARTECHNIK

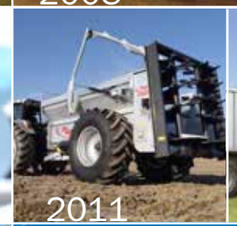
We are Fliegl.

Tanks and slurry technology

www.fliegl.com

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 a tipper, an original push-off trailer, 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.

MEMBER OF AEF

www.fliegl.com

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 water**

Overpressure valve 0.5 bar

Additional siphon

Hydraulic compressor changeover

Suction nozzle for comfortable suction - on left or right

Turbo filler on left or right side possible

Hydraulic filling dome (400 mm or 600 mm)

Mechanical filling dome Ø 400 mm

Hydraulic internal agitator with paddle screw for optimum homogenisation of the slurry (recommended for pig manure)

Discharge accelerator with or without shredding cutter

Compressors available with the widest variety of power levels

The compressor is lubricated fully automatically by a drip oiler.

Standard equipment **Optional**

Battioni MEC II 11,000 L heat-resistant

Battioni Ballast 13,500 L heat-resistant

Hertell 10,000 L heat-resistant

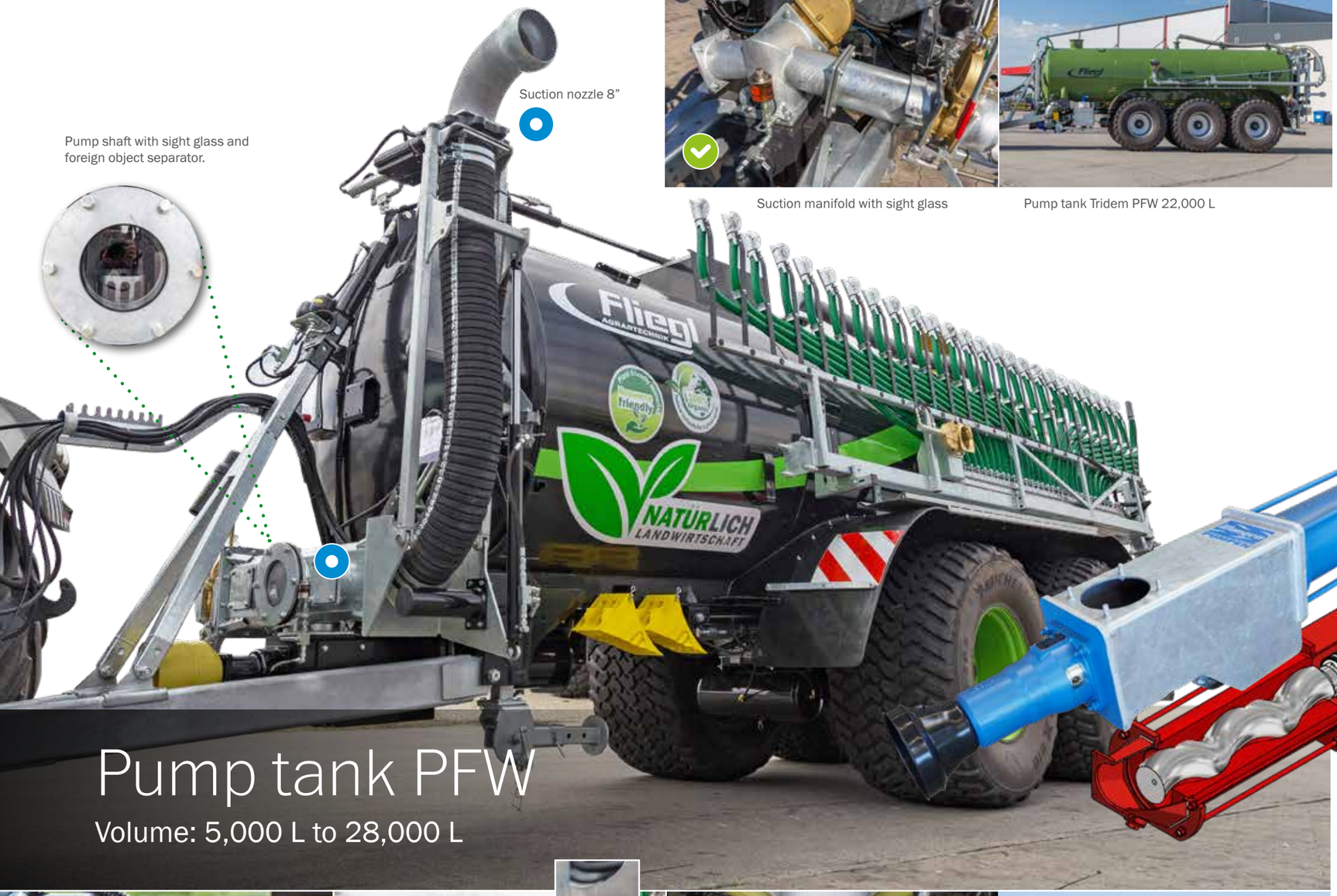
Hertell 14,000 L water-cooled and heat-resistant

Pump shaft with sight glass and foreign object separator.

Suction nozzle 8”

Suction manifold with sight glass

Pump tank Tridem PFW 22,000 L

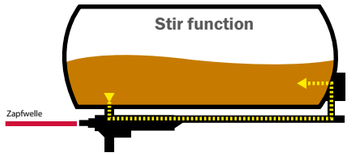


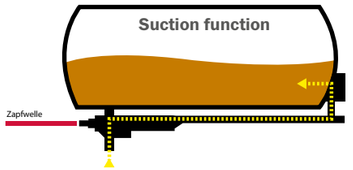
Pump tank PFW

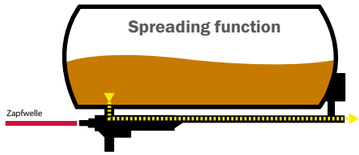
Volume: 5,000 L to 28,000 L

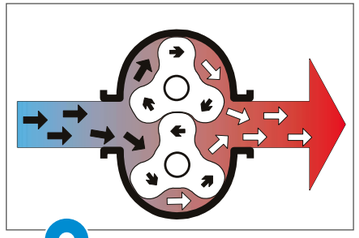
Eccentric screw pump, 4,000 or 6,000 litre

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 mixing inside the tank.









Rotary piston pump

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

Control panel for tank + distributor

Automatic pump shut-off

Tapered three-way gate slider with mechanical flow adjustment

Hydraulic push cover

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

Perfect technology for high power suction and spreading

Standard equipment Optional

High pressure tank HFW

Volume: 5,000 L to 25,000 L

The ideal solution for farms with external filling

- High flow rates
- Low maintenance with long running times

Centrifugal pump 6,500 L/min.

Hydraulic push cover

Also available with the “Titan”, “Gigant Plus” and “Gigant” tandem assemblies

Sprinkler nozzle

Rinsing line (stir function)

Standard equipment Optional

Poly-Line tanker

Volume: 6,000 L to 18,500 L

Available as pump, high-pressure or transport tank

- GFK tank – Made in Germany
- Easy to clean
- Extremely low centre of gravity

Mounting bracket for drag shoe spreader and four-point hydraulics

PFW 9000
with Skate 90 drag shoe spreader

PFW 18.500 with SKATE 210 drag shoe spreader

PolyLine available in numerous equipment variants, e.g. with telescopic axle

- **Ground pressure shifting**
- **Extremely high stability on slopes**

Boogie SB floating assembly with 18,500 L

High-pressure tank HFW 15.500 with centrifugal pump and sprinkler nozzle

Standard equipment Optional

A show of strength

AGRO TRUCK tanker trailer

25,000 l or 27,500 l

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

Ideal for combined transport

Suction and filling possible with one vehicle

Tank mounting for hook lift

Two-axle PolyLine transport tanker

Two-axle transport tanker TFW 16.000

Tanker trailer - ideal for road transport

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

- 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

The various SERIES - with a big equipment plus!

A tank to suit any requirement

JUMBO Line

Jumbo Line tanks are specially designed for 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!

VACUUM

JUMBO Turbo Line

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.

VACUUM

MAXX 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.

PUMP & VACUUM

MAXX Line PLUS

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!

PUMP & VACUUM

ALPHA Line

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!

PUMP & VACUUM

Fliegl Line

Vacuum tank
Jumbo Line

Volume: 3,000 L to 8,600 L

Jumbo Turbo Line	Tank length (shell)	Tank diameter
VFW 3,000	3,000 mm	1,100 mm
VFW 4,000	3,000 mm	1,250 mm
VFW 5,000	3,000 mm	1,400 mm
VFW 6,200	4,000 mm	1,400 mm
VFW 7,500	4,000 mm	1,500 mm
VFW 8,600	4,000 mm	1,600 mm

READY FOR ANY CHALLENGE!

- Top or bottom hitch
- Various brake systems
- Various drawbar eyes
- Different speed versions
- Different tyre variants
- Different compressor variants
- Various slurry distributors
- Ladder
- Turbo filler
- Suction nozzle 6“ with docking station
- Turbo filler with 6“ suction nozzle
- Pneumatic internal agitator
- Hydraulic compressor changeover

Filling dome D400 mechanical or hydraulic available

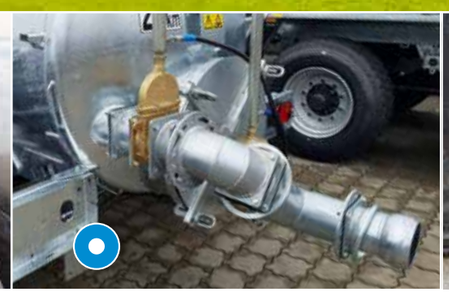
Mudguards

Additional siphon

Turbo filler

Blind rear flange and pre-fitted for downhill emptying

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


Downhill emptying (with internal pipe)

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

Silencer with oil separator

Ideal for farms where there are very steep slopes

Standard equipment Optional

Vacuum tank
Jumbo Turbo Line

Volume: 3,000 L to 8,600 L

Jumbo Turbo Line	Tank length (shell)	Tank diameter
VFW 3,000	3,000 mm	1,100 mm
VFW 4,000	3,000 mm	1,250 mm
VFW 5,000	3,000 mm	1,400 mm
VFW 6,200	4,000 mm	1,400 mm
VFW 7,500	4,000 mm	1,500 mm
VFW 8,600	4,000 mm	1,600 mm

READY FOR ANY CHALLENGE!

- Suction nozzle 6“ with docking system
- Turbo filler with 6“ suction nozzle and docking system
- Turbo filler
- 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

Filling dome D400 mechanical or hydraulic possible

Impact head spreader over centrifugal pump

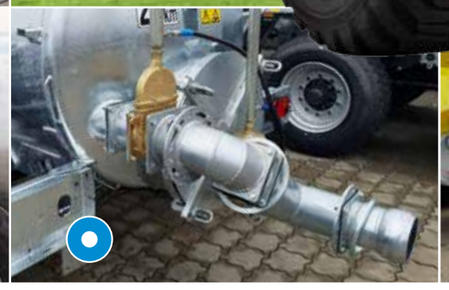
Compressor and centrifugal pump combination

Compressor 5000 L with centrifugal pump 3500 L up to 4000L tank

Compressor 8000 L with centrifugal pump 6500 L starting from 5000L tank

Tank tipping cylinder with drop support leg starting from 5000L

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



Downhill emptying

Turbo filler

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

Hydraulic sprinkler nozzle

Ideal for very steep slopes with its sprinkler nozzle

Standard equipment Optional

Vacuum or pump tank
“MAXX Line”

Volume: 5,000 L to 25,000 L

OPTIONAL FOR PFW/VFW

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

Drawbar suspension and 8” suction nozzle

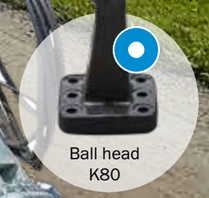
Turbo filler with quick coupler

For pump tank: Hydraulic push cover

Pre-fitting for filling dome 400 mm

For vacuum tank: Foam separator

“Titan” axle assembly up to MAXX Line 14.000 L



Ball head K80

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	6,000 mm	1,700 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	7,500 mm	1,900 mm

“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“ possible

Blind flange as standard
Front right, left and rear

Versatile and robust

Standard equipment Optional

Vacuum or pump tank
“MAXX Line Plus”

Volume: 14,000 L to 18,000 L

Available with 23 t or 24 t permitted total weight

Hydraulic forced steering

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

OPTIONAL FOR PFW/VFW

- Four-point hydraulics
- Discharge accelerator with shredding cutter
- 5 or 6 way control blocks

“MAXX Line Plus” pump tank

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

Ball head K 80

Standard equipment Optional

Steered

Straight-ahead travel

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

Top-class equipment – for high impact

Vacuum or pump tank “Alpha Line”

Volume: 10,600 l to 28,000 l

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

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

Steered

Straight-ahead travel

OPTIONAL FOR PFW/VFW

- Four-point hydraulics
- Discharge accelerator with shredding cutter
- 5 or 6 way control blocks
- For vacuum tanks:
  Turbo filler at centre under tank
- Fliegl “SlurryTanker”
- “ManureSensing” nutrient measurement

Tyres for one-axle tankers up to 1050/50-R32 max.

Wheel arch

Boogie SB floating assembly

Hydraulic axle suspension starting from VFW/PFW 16,000

Air suspension

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

Telescopic axle (only possible with Boogie SB floating assembly)

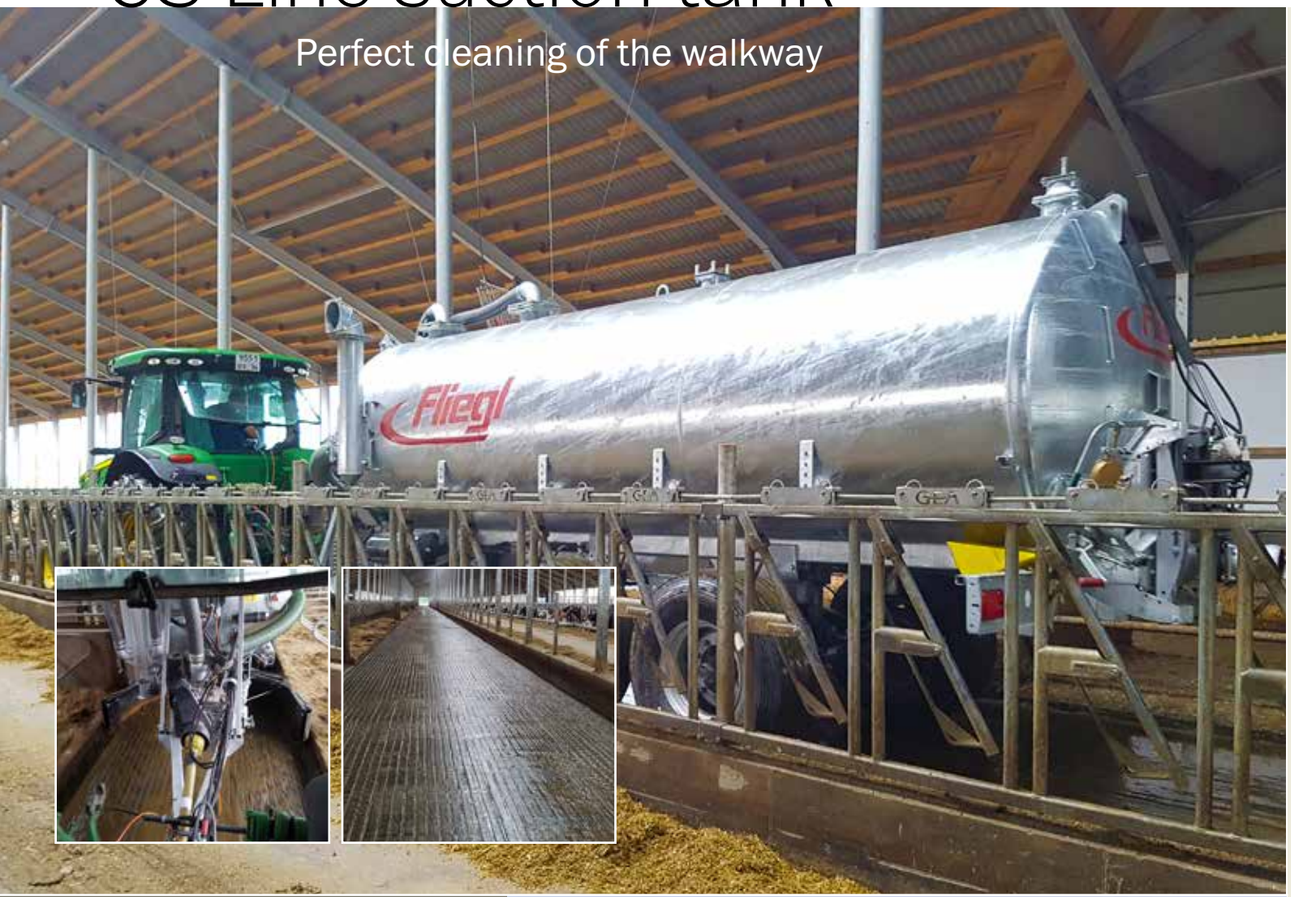
Drawbar suspension

Standard equipment Optional

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

CS Line suction tank

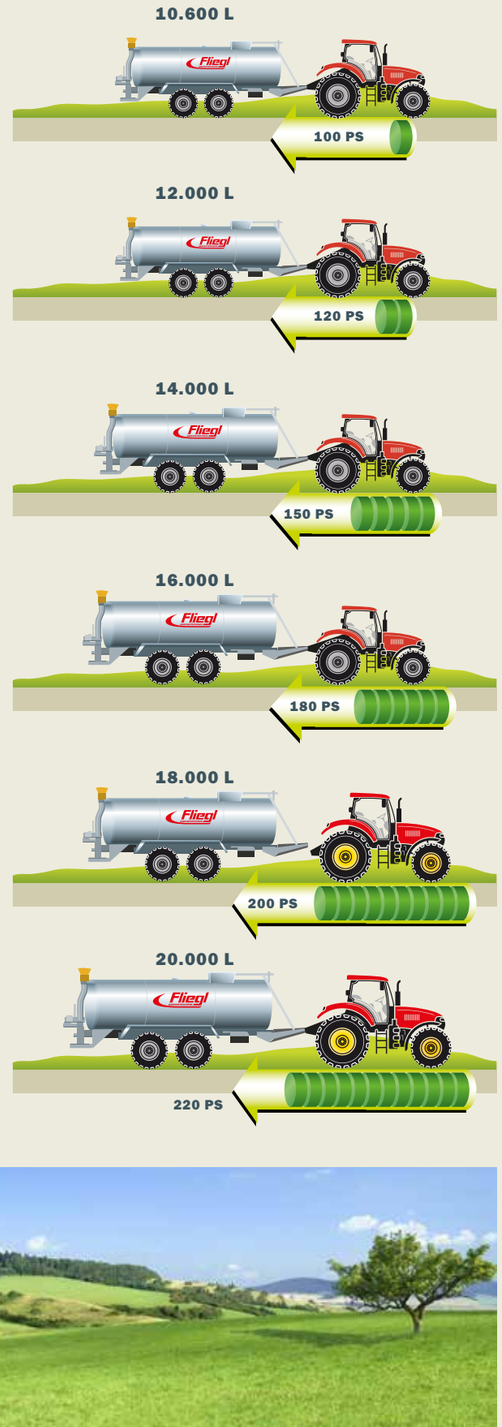
Perfect cleaning of the walkway

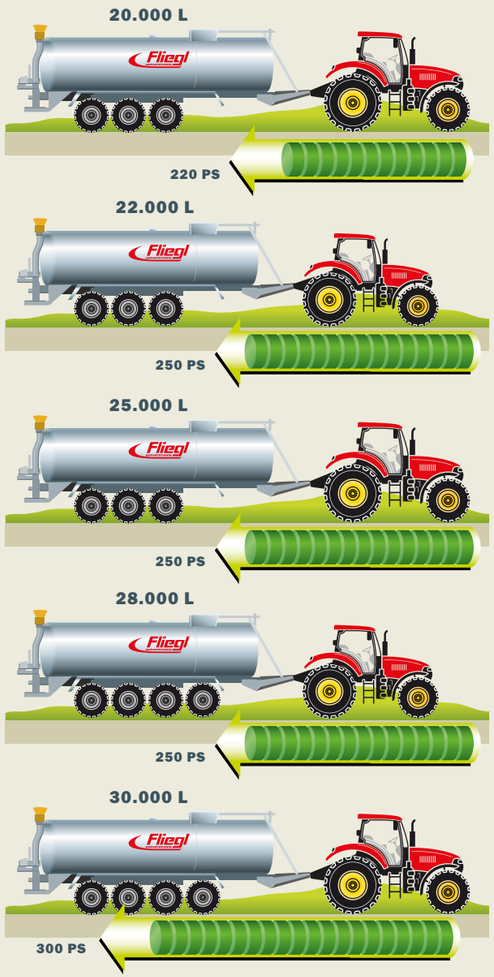


Stainless steel tanker

- Fliegl stainless steel tanks are guaranteed rustproof!
- Robust self-supporting structure for almost lifelong use
- Substantial weight reduction compared with galvanised steel
- This means up to 1,000 litres more transport volume

Tank sizes and recommended tractor power outputs (depending on application)





Accessories

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

Digital flow meter

Control panel for tank control without Skate distributor, up to 6 sections

Control panel for Skate distributor and tank

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

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

Piston compressor with up to 3 m³ air flow rate

Foam separator

Load sensing or constant flow control block

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

Fixed ladder

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

Digital tank meter

Internal pneumatic agitator, possible only in con-nection with compressor. Slurry is homogenised

Plexiglas fill level indicator

Fill level indicator with float ball

Robust drop support leg

Hydraulic support leg

Three or four point hydraulics

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

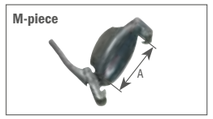
Lateral suction boom
4500mm length

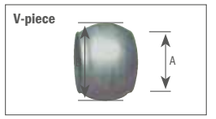
Elefant suction nozzle 8”
Possible on left or right.
Length 5000 mm with four-way control block
Turbo filler with telescopic extension 1500 optional

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-piece**. 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.

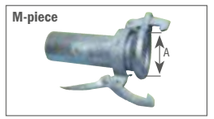
To determine the size of the Italian coupling, measure either the outside diameter of the V-piece or the inside diameter of the M-piece.
The outside diameter of the V-piece or the inside diameter of the M-piece must be the same for the M-piece and the V-piece. The coupling hose connector is measured by the outside or inside hose diameter.

Sizes of the Italian system

M-piece (with O-ring)	**V-piece (with loose clamping ring)**	**Hose sizes**
inside dim. A 131 mm = 4"	outside dim. B 130 mm / inside dim. A 100 mm = 4"	4" = 100 mm
inside dim. A 151 mm = 5"	outside dim. B 150 mm / inside dim. A 120 mm = 5"	5" = 120 mm
inside dim. A 181 mm = 6"	outside dim. B 180 mm / inside dim. A 150 mm = 6"	6" = 150 mm
inside dim. A 245 mm = 8"	outside dim. B 240 mm / inside dim. A 205 mm = 8"	8" = 200 mm
inside dim. A 301 mm = 10"	outside dim. B 300 mm / inside dim. A 254 mm = 10"	10" = 250 mm
inside dim. A 371 mm = 12"	outside dim. B 370 mm / inside dim. A 304 mm = 12"	12" = 300 mm

Quick coupler 6“

THE “PERROT” SYSTEM



This system has a **movable ring on the M-piece** to which the levers are attached. The **V-piece has a tapered section** and is made of one part only. 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 O-ring)	**Perrot V-piece**	**Hose sizes**
inside dim. A 150.0 mm = 4"	outside dim. B 155 mm / inside dim. A 108 mm = 4"	4" = 108 mm
inside dim. A 171.5 mm = 5"	outside dim. B 179 mm / inside dim. A 133 mm = 5"	5" = 133 mm
inside dim. A 203.5 mm = 6"	outside dim. B 211 mm / inside dim. A 159 mm = 6"	6" = 159 mm
inside dim. A 288.0 mm = 8"	outside dim. B 313 mm / inside dim. A 216 mm = 8"	8" = 216 mm

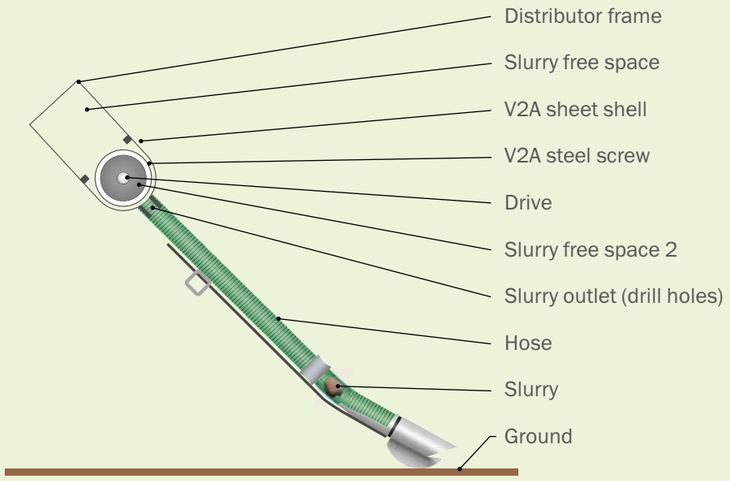
Perrot quick coupler 6”

- Invincible against foreign objects | No clogging
- Uniform longitudinal and cross spreading – even on slopes

The patented screw distributor is not normal, it's brilliant

The Fliegl proprietary system for ground-level slurry spreading has benefits for agriculture and the environment: it sharply reduces ammonia and odour emissions and the risk of water contamination. It also increases spreading accuracy and therefore substantially improves nitrogen efficiency.

Cross-section of spreader attachment



Oil motor for screw distributor with low wear and long service life.
(Required oil quantity 20l max.)

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

Storage box emptying for mole harrows, slurry cultivators, and slurry injectors

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

Function:
It is not the task of the screw (40 - 60 rpm) 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.

The Fliegl screw distributor - a unique system!

for all Fliegl spreading systems that spread at ground level

“Skate” drag shoe distributor

Optimal for grassland and arable land

		SKATE 90	SKATE 120	SKATE 150	SKATE 180	SKATE 210
Working width	m	9	12	15	18	21
Number of outlets		36	48	60	72	84
Weight	kg	1030	1230	1440	1770	2120
Transport width (top/bottom)	mm	2300/2600	2300/2600	2300/2600	2300/2600	2600/2990
Boom ends with hydr. folding		-	-	-	Optional	Standard

Fliegl pump tank PFW 18,000 with SKATE 150

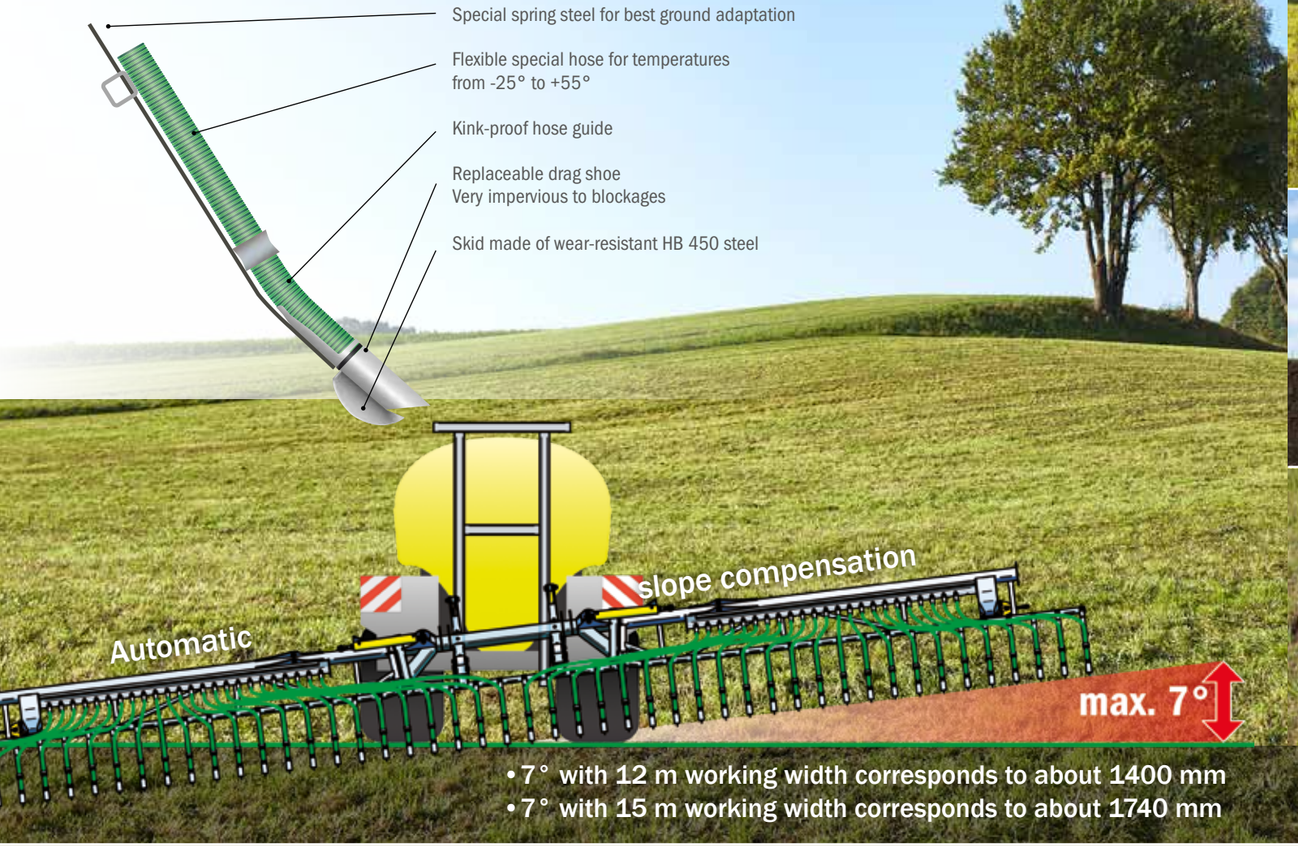
Working widths 9 - 21 m

- 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
- Individual height adjustment of drag shoe spreader possible
- 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 2,300mm 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 250mm, therefore optimal for grassland and arable land

Fliegl vacuum tank
VFW 8.600 with **SKATE 90**

Fliegl pump tank
Polyline 18.500 with **SKATE 210**

Construction and control



• 7° with 12 m working width corresponds to about 1400 mm
• 7° with 15 m working width corresponds to about 1740 mm

Application on grassland

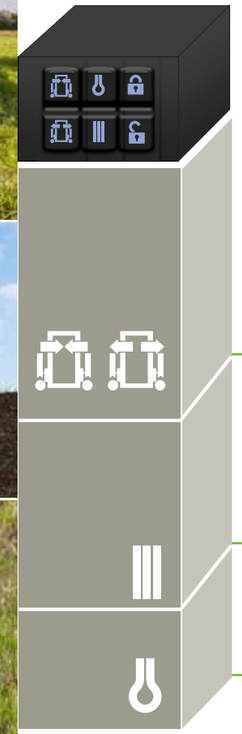
The drag shoe pushes leaves aside and opens up the turf slightly.

Control through ISOBUS

Operator interface for Fliegl SKATE in combination with ISOBUS terminal
Optional: Section control

SKATE

“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.

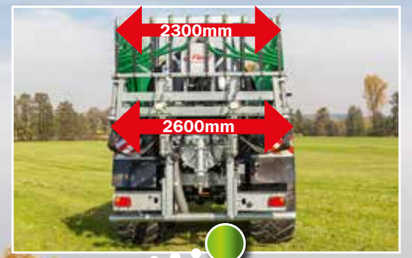
SKATE

Storage box opens mechanically or hydraulically

Specially tilted swivel joints

Control block

Compact transport width of 2600mm at bottom and 2300mm at top



Extremely low overall height

Angle sensors on left and right for even folding on slopes

Special folding mechanism prevents any kinking of the outlet hoses

Automatic slope compensation for optimal ground adaptation

Hose distance 250mm

Coulter pressure 8kg

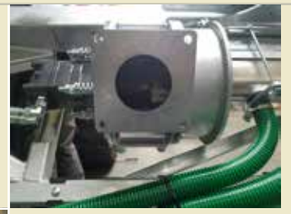
Uniform spread quality with short outlet hoses

Integrated overpressure protection

Accessories...

Boom section control mechanical
or hydraulic

Mechanical shut-off of individual hoses



Shredding cutter integrated in the
Fliegl screw distributor
(oil capacity 60l required)

Support wheels

Hydraulic emptying of storage box

T-piece with manual mechanical slider for
an additional output, e.g. for an impact
head spreader

SKATE

...easy retrofit even for tanks from other manufacturers

Included with delivery: drag shoe spreader
pre-assembled, control panel and
control panel are included.

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

Also suitable for third-party GFK tankers

“Garant” drag shoe distributor

Storage box to separate foreign objects

Garant 150 loose

Screw conveyor control unit

Pressure sequence valve

Working width 9 - 18 m

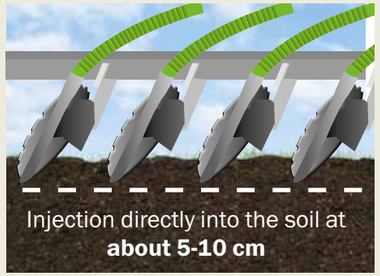
- Slurry is deposited in strips directly on the soil surface
- With the proven Fliegl screw distributor
- Foreign objects are carried automatically into the storage box
- Layout and structure of the frame and distributor arms as on the Fliegl SKATE
- Controlled by two tractor control units (1x for folding mechanism 1x for screw distributor)
- Without control panel
- Required oil capacity 20l max.
- Lowest power requirement

“Vario-Disc” slurry injector

Patented system for perfect incorporation in grassland and arable land

Stepless disc adjustment

Jagged edge discs for better injection quality



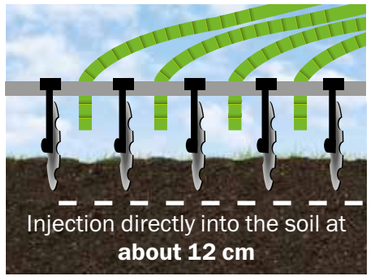
Working widths 3.00 m, 6.00 m and 8.00 m

- 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

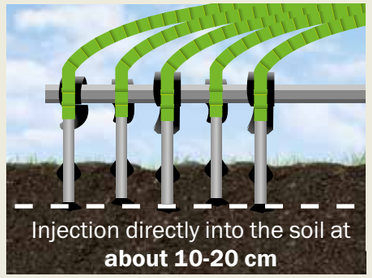


Working widths 3.00 m, 6.00 m and 7.60mm

- With the proven Fliegl screw distributor
- With the large-sized coulter discs, the subsoil is worked over and the slurry incorporated in a single operation
- Hydraulic folding
- 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 uncultivated stubble fields
- Robust cultivator tines for the toughest jobs
- Replaceable double-heart points
- 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

Fliegl Slurry Tanker

Perfection in slurry spreading

MEMBER OF AEF

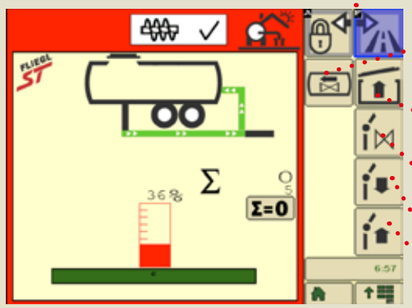
Fliegl Slurry Tanker (FST) is a control system which allows all of the functions of a slurry tanker to be controlled comfortably through an ISOBUS display

Advantages

- Makes slurry spreading easier
- Increases operator comfort and safety when applying fertilisers.
- The control system uses the existing ISOBUS display and makes it unnecessary to have an additional control panel in the tractor.
- Compatible with any ISOBUS display (has the AEF certificate).
- Since the FST only needs three hoses between tractor and tank, coupling and uncoupling is totally uncomplicated.
- 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.

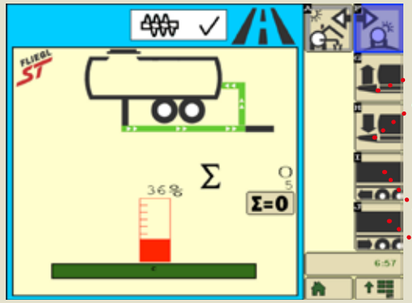
It has three different modes: road, farm and field operation. The reason for this is that only certain functions are available in each mode. For example in farm mode, which is intended for filling operations, the three-way gate slider at the rear cannot be operated. This prevents any undesired operator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

Farm operating mode



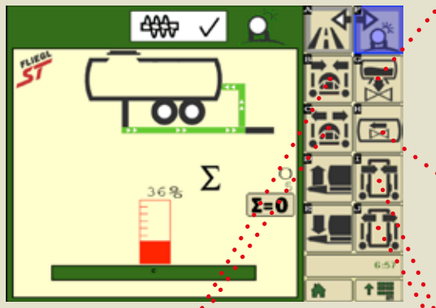
- Mode switching
- Opening and closing of the front slider
- Opening and closing of the dome cover
- Opens and closes the suction arm slider
- Folding the suction arm in and out

Road operating mode



- Drawbar adjustment for coupling and uncoupling
- Axle shift for regulating the drawbar load

Field operating mode



- Bring the three-way slider into spreading position. Pump is switched on automatically.
- Opening and closing the front slider
- Folding the distributor in and out; the transport lock is opened and closed automatically
- Drag hoses folding out and in

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)

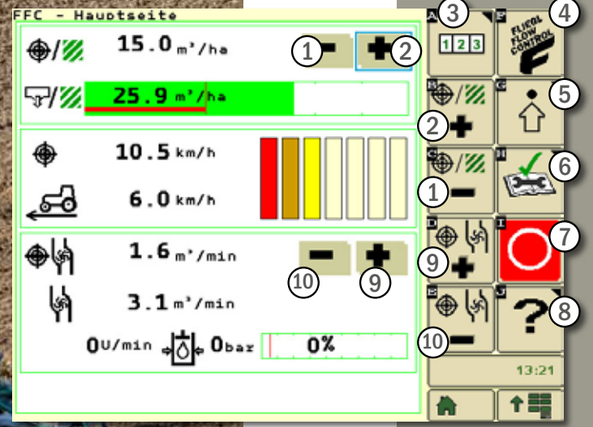
If the engine is operating at full capacity and the recommended speed can no longer be obtained when going uphill, the PTO speed must be reduced to avoid excess fertiliser application. With the new bypass system from Fliegl, manure is simply re-directed from the feed line back into the tank. This means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

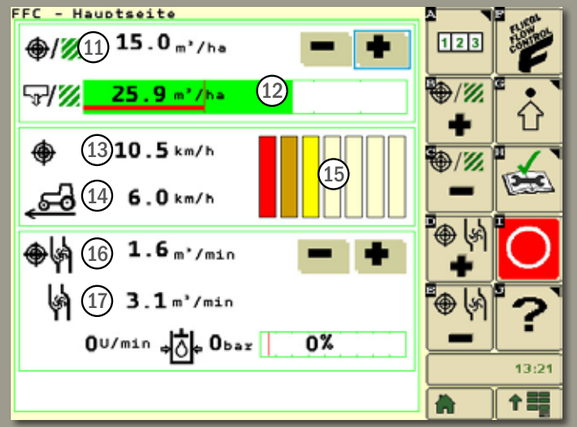
FFC with controlled discharge acceleration (for vacuum tank only)

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

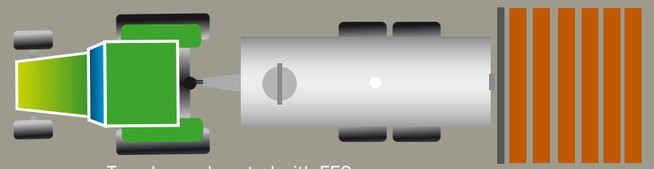
Automatic speed control according to flow rate and selected spreading rate by Isobus Class 3 functionality (only possible with certain tractor manufacturers).

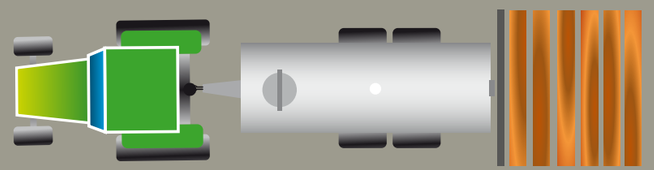




1. Reduce spreading rate
2. Increase spreading rate
3. "Totals": Information on total amount of slurry spread, duration, etc.
4. Main page
5. Settings
6. Diagnostics
7. Start / Stop
8. Help
9. Increase flow rate
10. Reduce flow rate
11. Enter the desired spreading rate
12. Green: current spreading rate
    Red: desired spreading rate
13. Target speed calculated to maintain desired spreading rate
14. Current travel speed
15. Left element coloured = drive faster
    Left element coloured = drive slower
16. Set the desired flow rate
17. Current flow rate

Uniform spreading result with Fliegl Flow Control


Travel speed control with FFC


With conventional rotary vane control

Other spreading systems

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

Wide area spreader

Combi-spreader - folding
Follow the national regulations on the use of fertilisers

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

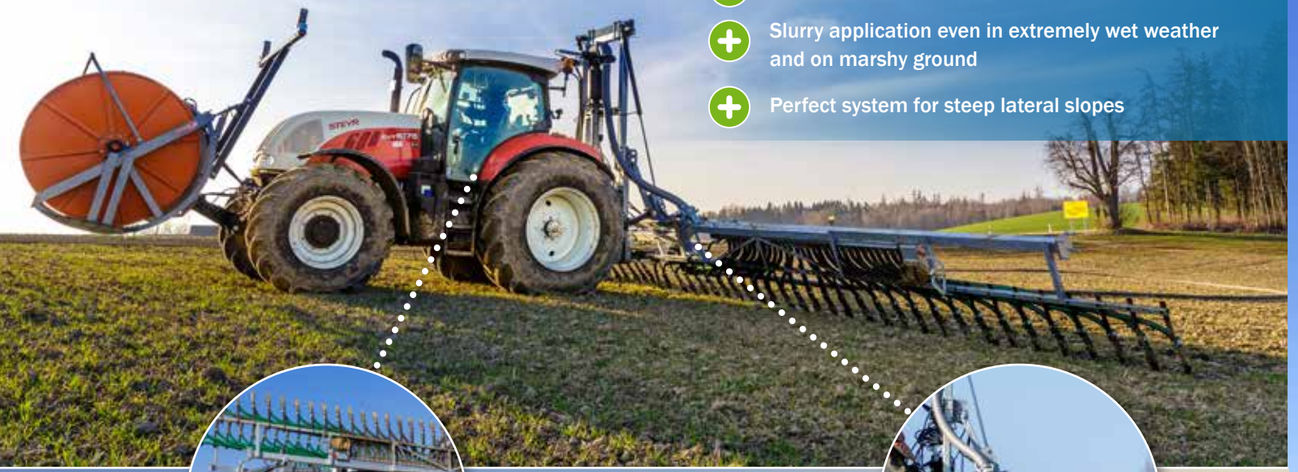
Hydraulic double pendulum spreader

Nozzle boom spreader with maximum working width 21 - 30 m

Fliegl slurry hose system

Soil-saving slurry application

- Slurry application which is very gentle on the soil
- Slurry application even in extremely wet weather and on marshy ground
- Perfect system for steep lateral slopes



- No problems getting in or out of the cab

- Robust tow bar with integrated head-land mode
(tow bar turns at the headland)

Fliegl SKATE 150

- Slurry hose system possible with the Fliegl SKATE drag shoe spreader, GARANT drag hose spreader, and the VARIO DISC slurry injector
- Pressure required in the slurry feed line about 10-12 bar

Dimensions at the K80 ball head coupling and clearances must meet standards ISO 500 and ISO 730.

Steering cylinders are mounted at the same axial and vertical level as the ball head coupling on the towing vehicle. Spacing 250 mm (+/- 5mm)

Simple coupling - as standard

Open the locking pin at the forced steering cylinder

Simply attach the K50 coupling to the tractor

Fix the locking pin

Forced steering with hydraulic control

Hydraulic forced steering

Steered

Straight-ahead travel

Optional: BPW axle
BPW steering axle with undulated thrust bearings. These hold the wheel in the straight position for straight-ahead travel and, when turning, the lateral forces on the tyre push the thrust washers one over the other. When the turning manoeuvre is complete, the vehicle weight automatically brings these back to the straight-ahead position.

Chassis technology

For secure handling, even in extreme driving situations!

The Fliegl swap system

Slurry tank superstructure optional for swap chassis.

Cylinder for hydraulic lifting gear

Drawbar with swivelling eye 51mm

Ball head K80

Rotating drawbar eye 50mm

Piton-Fix

DIN drawbar eye D40

Titan tandem assembly for best ground adaptation

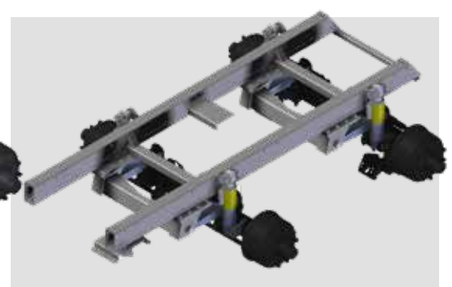
Air suspension

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

TitanPlus



Hydraulic axle suspension

Boogi floating assembly, rigid

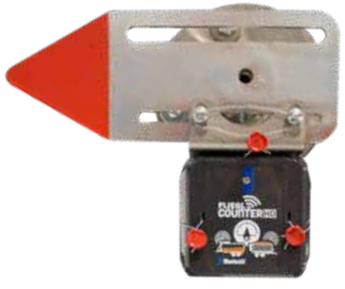
“Gigant”

“Gigant Plus”

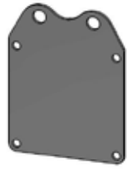
Fliegl tank and load counter

“Beacon Counter HD”

Illustration with Fliegl Beacon Counter



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

Example with the beacon mounted on a bale fork

Bluetooth® Works with

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.

IOS

Android

Tanks in all sizes and power variants

Fliegl Agrartechnik GmbH
Bürgermeister-Boch-Str. 1
D-84453 Mühldorf a. Inn, Germany
Tel.: +49 (0) 86 31 307-0
Fax: +49 (0) 86 31 307-550
e-Mail: info@fliegl.com

We are Fliegl.

Dimensions, weights, and technical data are subject to change.
Some illustrations show special equipment.
Slurry technology 11/2017

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