

CARGOS HARVEST & TRANSPORT TECHNOLOGY EDITION NOVEMBER 2023





With the CARGOS to the "Fullliner" in agricultural transport technology

We benefit from more than 48 years of experience in transport and agricultural technology. This experience, practical relevance and constant further development is reflected in the success of the group of companies. In the meantime, more than 6500 transport vehicles are produced and marketed annually in the entire group of companies.



In 1975, Josef Fliegl senior founded the "Fliegl" company on his parents' farm. Even then, tippers and slurry tankers were produced. In 2013, Fliegl Josef junior opens the new "Fliegl Agrartechnik" plant in Mühldorf am Inn.



No. 1 in Europe in agricultural trailers















Production halls & administration building in 83527 Kirchdorf, Bavaria, Germany. Since fall 2022, this has been the headquarters of the youngest company in the Fliegl Group "Fliegl Grünlandtechnik GmbH". Start of production of the CARGOS series at Fliegl, after only six months of preparation, in early 2023.

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CARGOS - the energy transporter: Not only for silage!

CARGOS - a strong partner for diverse tasks.

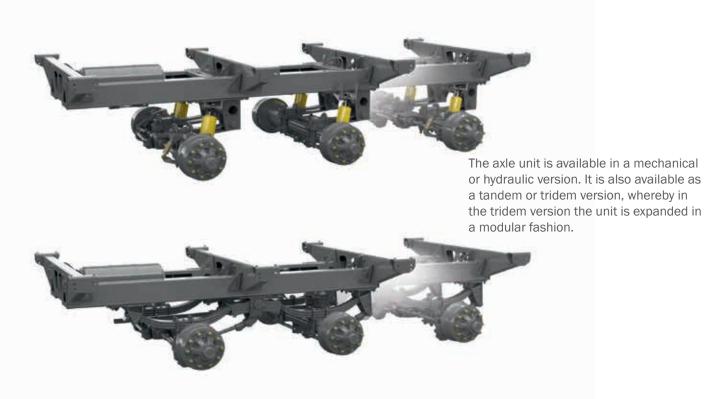
Official approval for the transport of wood chips.





The modular structure: Weight-saving and flexible

Thanks to the modular structure, some weight can be saved and thus 10% more payload weight is given at the same time. It also has better torsional capacity in the field.



Spare parts supply down to the last frame part, thanks to the bolted construction.



The bottom chords are bolted directly to the axle unit and will later give the carriage the necessary stability from below over the entire length of the carriage.

- High-strength structural steel is used in the frame of the CARGOS
- Cross and longitudinal profiles are bolted together
- Longitudinal profiles are rounded off to prevent forage residues from remaining in the wagon
- Longitudinal profiles are designed to be "open" to the outside. This allows the electrical and hydrlic systems to be neatly routed and to be quickly accessible when needed



The modular axis unit

Choose from many different axle combinations the optimal one for you.

The professional axle unit completely according to your wishes:

- Bolted tandem or tridem design, modularly expandable
- 18 to 30 tons permissible axle loads
- Permissible total weight from 21 to 34 tons
- Mechanically or hydraulically suspended chassis
- Optional lift axle for tridem wagons





An overview of our steering systems:

So you can get around even the tightest corners.



The slimline articulating drawbar permits maximum steering angles

The articulating drawbar is hydraulically suspended as standard on the forage transport wagon and the dual-purpose wagon. Both models are available with a drawbar load of 3 or 4 tons.





For the scraper floor we rely on driving force & zinc

Strong on both sides - the CARGOS scraper floor drive

- NEW: On all Fliegl CARGOS models the scraper floor drive has been on both sides since the first wagon

- Strong scraper floor drive with standard two-speeds Level 1 slower but powerful unloading for extremely wet loads, Level 2 for fast unloading

- Also standard on all CARGOS: The possibility to run the scraper floor backwards in rapid traverse

Continuous shaft with chain wheels to support the center of the scraper floor for maximum stability

The scraper floor construction:

1. Sturdy galvanized, 3mm thick floor plates

2. Galvanized guide strips

3. Heavy-duty and tear-resistant galvanized scraper floor chains > extreme durability





Additional equipment options

The CARGOS offers a lot of additional equipment options for more comfort and more safety.





Prevents the scraper floor from switching on, when the tailgate is closed





extensions
For more loading volume

Efficient metering rollers for an even forage carpet in the silo. This facilitates compaction and thus ensures the best forage quality.

- Easy installation and removal of the metering rollers thanks to modular structure
- Dismantling in only 10 minutes with 500 kg more payload at the same time, the openings are closed with plates
- Number of rollers: forage transport wagon: two-roller module, dual-purpose wagon: two-roller module or three-roller module
- Drive of the rollers by the power take-off shaft



forklift fork.

The entire metering roll module is lifted in/out as a whole using a

CARGOS 700 forage transport wagon operation

Choose between two equipment options for the forage transport wagon.

TREND:

Simple control of the scraper floor, tailgate, articulated drawbar and steering axle via the tractor control units.

Control of the standard two-stage scraper floor and lighting by means of a small control unit

Reduction of the required tractor control units by scraper floor / tailgate sequencing (optional)





CARGOS forage transport wagon at a glance



- 1. Robust frame and tapered body
- 2. Convenient operation in BUSINESS and TREND versions
- 3. Slim drawbar with integrated support foot for maximum steering angles
- 4. Articulated drawbar incl. suspension with additional benefits for chopping, emptying and tractor optimization
- 5. The hot-dip galvanized floor is corrosion resistant and durable
- 6. Bolted scraper floor with galvanized strips and 4 solid flat link chains

7. Fast emptying due to two-speeds scraper floor installed as standard

- 8. Externally accessible chain tensioners for convenient retensioning of the scraper floor chains.
- 9. Optional: Removable metering roller module
- 10. Optional: "sequential control" for scraper floor drive/tailgate
- 11. Mechanically or hydraulically suspended axle unit
- 12. Option: Load compartment weight display

We visit our farmers

A visit to Bauer Maschinenverleih in Baden-Württemberg. Supporting other farmers in transport peaks of agricultural goods. We are part of it.

Company:

Bauer Maschinenverleih
Baden-Württemberg, Stuttgart/North of Black Forest, Germany

Company structure:

Agricultural machinery rental Beekeeping

Jürgen Bauer about the decision for the Fliegl CARGOS 750:

"... because of the driving characteristics, I have hydraulic suspension inside, because of the simplicity and stability of the wagons - so my customers get very well with these wagons."



Use at a distance of about 40 km from the company headquarters Bauer.









CARGOS dual-purpose wagon at a glance



- 1. Robust frame and tapered body
- 2. Removable loading assembly
- 3. Removable metering roll module (option)
- 4. Crop flow with scraper floor lowered by 500 mm, hydraulic pivoting for convenient knife changing and rapid discharge
- 5. Chopper housing structurally separate from the blade holders, hydraulic lowering for easy
- 6. Individual knife engagement with adjustable knife pretensioning
- 7. FLIEGL twin knife
- 8. Rotor with screwed-connected segments
- Hydraulically driven pick-up controlled on both sides for 19. Load weight indicator precise crop intake
- 10. Hydraulic pick-up suspension and centre guide wheel (optional)

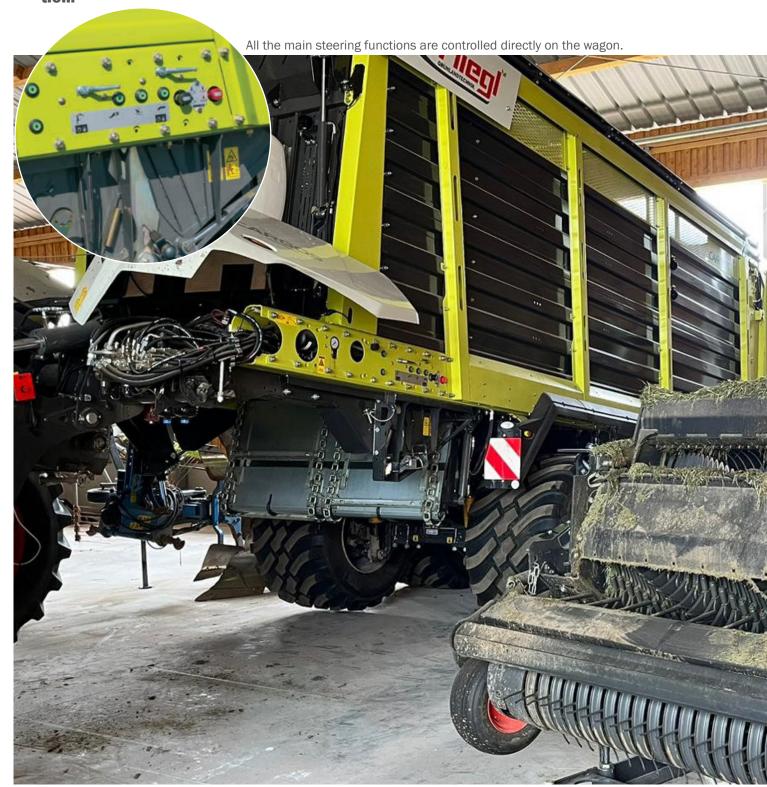
- 11. Automatic loading function via hydraulically folding filling flap and torque detection in the drive train (optional)
- 12. Wet knife grinding system with AQUA NON STOP COMFORT
- 13. LED work lights (option)
- 14. Choice of 22.5", 26.5" or 30.5" tyres
- 15. Slimline drawbar with a wide pick-up for maximum manoeuvrability and stability

16. Modulares chassis

- 17. Mechanically sprung tandem or tridem axle assembly with steered trailing axle, mechanical or electronichydraulic positive steering
- 18. Comfortable operation via ISOBUS e.g. DUCIS

Exclusively at CARGOS: Transformation in 20 minutes

Turn your self-loading forage wagon into a forage transport wagon in just 20 minutes. By removing the loading and cutting assembly, you can increase the payload by 3 tons and thus load up to 25% more weight. In addition, the unit is protected during chopping and is stored safely in your machine hall until the next self-loading forage wagon operation.



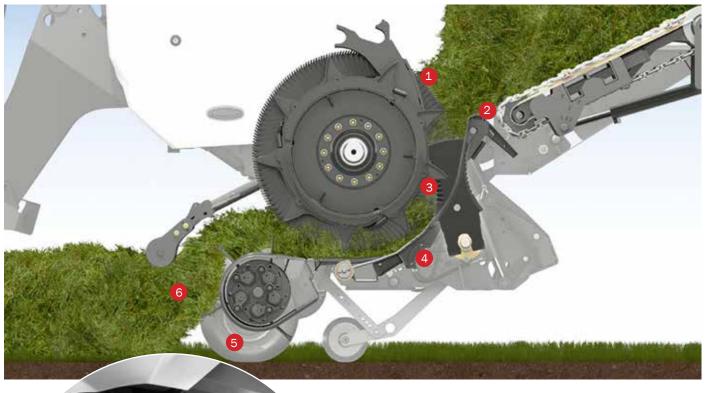


Maximum forage protection

Easy on the forage, agile and efficient:

The FLIEGL FEEDING SYSTEM (FFS)

- 1. Automatic loading function via hydraulically folding filling flap and torque detection in the drive train (optional)
- FFS with a scraper floor that can be lowered by 500 mm; hydraulic pivoting for convenient knife changing and rapid discharge
- 3. Chopper housing structurally separate from the blade holders, can be lowered hydraulically for easy maintenance and cleaning
- 4. Twin knives and innovative engagement system with adjustable knife pre-tensioning
- 5. Optional centre guide wheel for optimal ground-contour following
- 6. Hydraulically driven pick-up control on both sides for recise crop intake, with optional hydraulic suspension



Pickup hydraulically controlled on both sides:

- Maintenance-free hydraulic drive, load-sensing controlled
- Precise forage collection even of large quantities of material
- Five rows of tines, working width 2 meters
- Thanks to the small pick-up diameter, even the shortest, wet forage is transferred cleanly to the rotor
- Optional equipment: Hydraulic pick-up unloading and a heightadjustable centre guide roller



Twice cuts better: The twin knife in the CARGOS

Twin knives made of specially alloyed and hardened steel provide the perfect balance of hardness and toughness. This results in the best cutting quality with at the same time the longest blade life.

All knives are unlocked together with the key attached to the wagon.

This makes it easy to change or turn the knives. However, if a knife should become wedged,





Chopper housing & blade holders 3 positions for best comfort

The hydraulically lowerable chopper housing of the CARGOS, which is decoupled from the balde holders, is connected to the frame via fixing lugs and bolts as standard.

Three different positions allow separate, joint or limited lowering of blade holder and chopper housing. The blade holders can be swung out of the chopper housing for knife replacement.



1. The working position

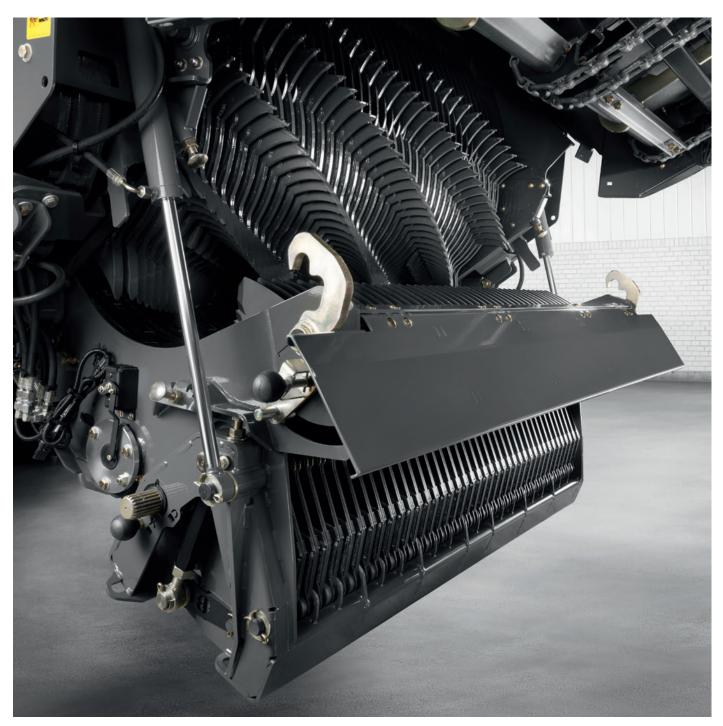
In this position, all knives are extended when a blockage is removed and, at the same time, the chopper housing is opened one step.

2. Knife change position

Only the blade holders are swung out for convenient knife grinding or knife changing.

3. Cleaning/service position

Here, the chopper housing is opened. This gives completely free access to the rotor and makes cleaning a child's play.

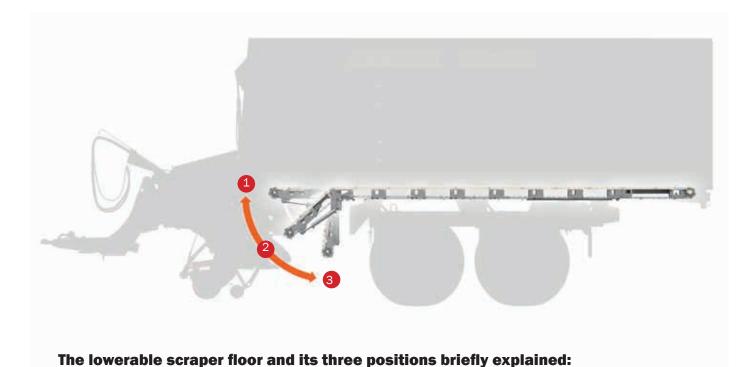


Lowerable scraper floor Easy maintenance through and through

You do not need a door on the CARGOS dual-purpose wagon - the best access directly through the floor of the wagon, which at the same time allows free access to the rotor.

The scraper floor can be hydraulically swung upwards into a horizontal position for optimum unloading and can also be swivelled downwards by 90° to provide optimal access to the loading assembly for cleaning and maintenance work, for example.

The scraper floor is lowered by 500 mm for easier loading, ensuring an ideal crop flow in the EFS. The crop is delivered directly to the loading bay from the rotor to not only reduce fuel consumption, but also protect the crop.



1. Unloading

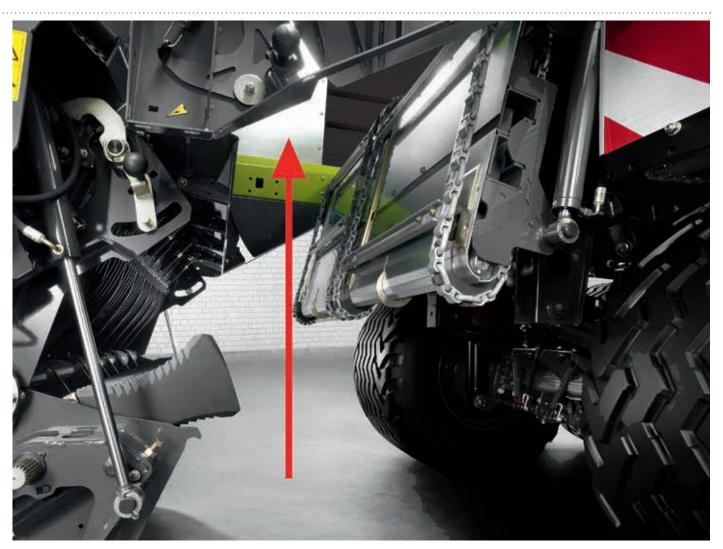
In accordance with the laws of physics, the scraper floor is brought into the horizontal position during unloading, so the wagon can be unloaded easily.

2. Loading

For optimum forage quality and best baling, the front part of the scraper floor is positioned at a 45° angle downwards.

3. Service position

For cleaning, maintenance or repair, the floor of the wagon is placed vertically downwards. This creates an access hatch. The inside of the wagon can be accessed. Cleaning through the downward opening is also efficient and simple. Access to the rotor directly from the rear is also possible in this position.





Loading the smart way

Many features for best loading. With the CARGOS components, you can achieve up to 100 cubic meters of loading volume with medium compression, depending on the size of the wagon.

As standard, all CARGOS combination wagons have the option of setting three separate positions of the articulated drawbar for loading, headlands and transport mode.

An additional flap folds on the front plate prevents forage loss during self-loading forage wagon operation. This can be swiveled forward by 90° on the CARGOS 9000 (optional on the CARGOS 8000). This makes it easier to chop the crop in the wagon.

Optional: Angle sensor on the filling flap and torque sensor on the rotor. This combination of both sensors guarantees optimum filling of the wagon and full utilization of the loading volume.





Everything in view and under control

Every CARGOS dual-purpose wagon is equipped as standard with a load-sensing comfort hydraulics as standard.



We visit our farmers

A visit to the Ponfick family in Upper Franconia. Efficient loader wagon operation in small-structured areas. We are part of it.

Company:

Ponfick GdbR, Upper Franconia, Bavaria, Germany

Operating structure:

Family business,
Training farm for about 20 years
140 dairy cows / biogas plant 400 KW

Martin Ponfick about the Fliegl CARGOS 8500:

"... the wagon simply has everything, from the tridem axle unit to the automatic pick-up. The wagon is solidly built, the is sturdy, is super processed and has an insane outreach and a class cut quality. We have a tremendous impact on our many small areas."





CARGOS		9600	9500	8500	8400	8300	760	750	740
Loading volume	m² DIN	50	44	41,5	38	30	51	44,5	38,5
Loading volume heaped							59,5	52	45
Loading vol. at medium compression	m² DIN	100	88	82	76	60	-	-	-
Pick-up									
Clearing width	mm	2000	2000	2000	2000	2000	-	-	-
Diameter	mm	320	320	320	320	320	-	-	-
Guide wheel tyres		16x6.50-8	16x6.50-8	16x6.50-8	16x6.50-8	16x6.50-8	-	-	-
Tine spacing	mm	61	61	61	61	61	-	-	-
Ground clearance with articulated drawbar raised	mm	790	790	790	790	790	-	-	-
Hydrl. pick-up suspension, infinitely variable		0	0	0	0	0	_	-	-
Central additional jog wheel		0	0	0	0	0	-	_	_
Rotor									
Rotor stub	mm	120	120	120	120	120	-	-	-
Diameter	mm	860	860	860	860	860	-	-	-
Tine rows	Quantity	9	9	9	9	9	-	-	-
Cutting device									
Double knife (in one plane)	Quantity	40	40	40	40	40	-	-	-
Shortest theoretical cutting length	mm	38	38	38	38	38	-	-	-
Single foreign body safety device		•	•	•	•	•	_	-	-
Scraper floor									
Scraper floor chains	Quantity	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2
Two-speed scraper floor drive		•	•	•	•	•	•	•	•
Chassis									
Tandem axle, 18 t, axle spacing ²	mm	-	-	-	1525	1525	-	-	1525
Tandem axle, 20 t, axle spacing ²	mm	-	1810	1810	1810	-	-	1810	1810
Tridem axle, 27 t, axle spacing ²	mm	1525	1525	1525	-	-	1525	1525	-
Tridem axle, 30 t, axle spacing ²	mm	1810	1810	1810	-	-	1810	-	-
Steering									
Trailing steered tandem axle		-	0	0	0	0	-	0	0
Trailing steered tridem axle		-	-	-	-	-	0	0	-
Mech. hydr. positive steering, tandem		-	-	-	-	-	0	0	0
Mech. hydr. positive steering, tridem		-	-	-	-	-	0	0	0
Electr. hydr. positive steering, tandem		-	0	0	0	0	-	-	-
Electr. hydr. positive steering, tridem		0	0	0	-	-	0 ⁷	0 ⁷	-
Permissible total weight									
Tandem axle, 18 t	t	-	-	-	21/223	21/223	-	-	21/223
Tandem axle, 20 t	t	-	23/243	23/243	23/243	-	-	23/243	23/243
Tridem axle, 27 t	t	313	313	313	-	-	313	31 ³	-
Tridem axle, 30 t	t	34 ³	343	34 ³	-	-	34 ³	-	-
Dimensions		11015	10005	10005	2700	0505	11005	10005	0054
Overall length	mm	11940	10800	10800	9720	8595	11230	10090	8950
Overall height ⁴	mm	3870-3990	3870-3990	3650-3990	3650-3990	3650-3870	3650-3990	3650-3990	3650-3990
Loading area below Loading area top	mm	9100x2360	7960x2360	7960x2360	6820x2360	4960x2360	8740x2360 9990x2360	7600x2360 8850x2360	6490x2360 7740x2360
Track width	mm	2100	2100	2100	2100	2100	2100	2100	2100

CARGOS	9600	9500	8500	8400	8300	760	750	740
Tyres ⁵	,							
710/40 R 22.5	-	_	_	-	0	0	0	0
800/35-22.5	-	_	_	-	0	0	0	0
620/55 R 26.5	-	-	-	-	-	0	0	0
710/50 R 26.5	0	0	0	0	0	0	0	0
750/45 R 26.5	0	0	0	0	0	0	0	0
800/45 R 26.5	0	0	0	0	0	0	0	0
710/50 R 30.5	0	0	0	0	-	0	0	0
800/45 R 30.5	0	0	0	0	-	0	0	0
Operation								
ISOBUS compatible	•	•	•	•	•	O ⁷	O ⁷	-
ISOBUS connection cable	0	0	0	0	0	O ⁷	O ⁷	-
Hydraulics								
Spool valves		e) ⁶	3 da + 1 sa					
Power Beyond Connection	0	0	0	0	0	O ⁷	O ⁷	_
Hydraulic coupler ISO 16028 for connection to Flat Face	0	0	0	0	0	O ⁷	O ⁷	-
Additional options								
Automatic articulated drawbar control	0	0	0	0	0	-	-	-
Sequential scraper floor	•	•	•	•	•	09	09	0
3 metering rollers (+ drive system)	0	0	0	0	0	-	-	-
2 metering rollers (+ drive system)	0	0	0	0	0	0	0	0
Insert plates for dismantled metering rolls	0	0	0	0	0	0	0	0
Hydraulically folding filling flap with automated loading function	•	•	0	0	0	-	-	-
Automatic loading via torque at the drive	0	0	0	0	0	-	-	-
Ultrasonic fill-level sensor	0	0	0	0	0	-	-	-
LED work lights package	0	0	0	0	0	0	0	0
LED side marker lights	0	0	0	0	0	0	0	0
Storage frame for loading/cutting assembly after removal	0	0	0	0	0	-	-	-
Channel cover for use in chopper transport	0	0	0	0	0	-	-	-
Weight indicator (only with hydrl. chassis)	0	0	0	0	0	O ⁷	O ⁷	-
Lift axle for tridem axle (only with hydrl. chassis)	0	0	0	-	-	O ⁷	O ⁷	-
Hydrl. drawbar suspension	•	•	•	•	•	•	•	•
Underride guard at rear	0	0	0	0	0	0	0	0
Loading bay cover	0	0	0	0	0	0	0	0

- 1. With platform gate extensions
- 2. Mechanical suspension or with hydraulic compensation, with hydraulic suspension as an option
- 3. Permitted drawbar load of 3 t as standard, optionally 4 t, with tridem axle always 4 t (except in France if fitted with a hitch eye)
- 4. Depending on tyres 30.5" / 26.5" / 22.5" and equipment with/without platform gate extensions
- 5. 10-hole rims in the standard version, tyres partly dependent on the axle
- 6. + 1 sa with hydraulically sprung chassis
- 7. BUSINESS models with load-sensing comfort hydraulics and full ISOBUS capability
- 8. Including lighting management in BUSINESS models
- 9. Only applicable in combination with 30.5" tyresr

Fliegl Grünlandtechnik constantly strives to adapt all products to practical requirements. Therefore, changes are reserved. Information and illustrations are to be viewed as approximate and may also contain special equipment that is not part of the standard scope of delivery. This brochure was printed for worldwide use. Please refer to the price list of your Fliegl Grünlandtechnik sales partner regarding the technical equipment. Some of the protective devices have been removed in the photos. This was only done to make the function clear and must under no circumstances be done arbitrarily in order to avoid danger. In this respect, please refer to the relevant information in the operating manual.



Changes to dimensions, weights and technical data are subject to change. Illustrations partly with special equipment.

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Your FLIEGL Grünlandtechnik sales partner



Fliegl Grünlandtechnik GmbH

Alustraße 1 83527 Kirchdorf, Germany

Tel. +49 (0) 8072 3769 253

info@fliegl-gruenlandtechnik.com