

FENDT

Front loader Fendt Cargo



The Fendt Cargo front loader

The combination unbeatable

The Fendt front loader – Fendt Cargo – offers sophisticated technology for maximum productivity. As a universal and reliable implement, it is the ideal partner for Vario tractors. All models are equipped with the unique Cargo Lock coupling system and parallel guidance with Z-kinematics. The Fendt CargoProfi has completely new features, such as a weighing system and the ability to set working range.

Cargo 3 X / 65	200 Vario
Cargo 3 X / 70	300 Vario
Cargo 4 X / 75 compact	300 Vario
Cargo 4 X / 75	300 Vario / 500 Vario
Cargo 4 X / 80	500 Vario
Cargo 4 X / 85	700 Vario *
Cargo 5 X / 85	700 Vario
Cargo 5 X / 90	700 Vario

* up to 28-inch wheels



The finest operating and ride comfort

A pleasure to work with

The Fendt Cargo front loader is designed for exceptional driving comfort. The Fendt Vario offers exceptional visibility. The operating interface permits optimal control of the front loader. The intelligent damping and suspension design protects your front loader and tractor, and most importantly, your own health.



Fendt drivers have more far-sight

Overview with the Fendt Vario

During loader work, it is essential that everything is always well in view. The Fendt Vario tractors have optimal upward and downward sight lines. The 300, 500 and 700 Vario series are equipped with the VisioPlus cab – a true wonder in visibility and space. The windscreen on the cab curves up into the roof and permits an unobstructed view over a 77-degree sight angle and therefore to the raised front loader.

The area between and in front of the front wheel arches has also been optimised. The bonnets on the Fendt tractors are always narrow and well-arranged – especially advantageous when pushing grain.

Fendt offers a roof window for the smaller 200 Vario series to guarantee a full view to the raised front loader.

Best outlook thanks to clever design

Through the optimised arm width and the cross-beam, which is positioned far forward, the entire structure of the front loader has been designed for an unobstructed view. The pipelines lie protected in the arm and ensure a better view. For operators, who would like to open the windscreen, the mounting points of the front loader arm and the Z-bar linkage permit the front window to be swung out fully at any time during front loader work (not 3X/65 and 4X/75 compact).

Comfortable working conditions

The damping system, which lies completely protected in the cross beam, provides exceptional comfort. Nitrogen accumulator on the front loader act as shock absorbers. Shock loads cause the hydraulic oil to press against a membrane in the accumulators. This compresses the gas volume, which reliably reduces peak loads. If precise implement control is required, the system can be switched off electrically, with a quick push of a button in the cab (mechanical for 3X arm).



The 500 and 700 Vario series are fitted with the VisioPlus cab, which features a windscreen that curves up into the roof. It significantly expands the upward viewing angle and provides a full view of the front loader, even when it is fully raised. The downward sight lines have also been optimised and provide an excellent view to the wheel arches.



The roof window, which is standard on the 200 Vario, provides an optimum view to the raised front loader.



Front loader without damping system:
Shock loads are transmitted to the tractor.

Front loader with damping system:
Gas pressure reservoirs act as shock absorbers and prevent vibrations from being transmitted to the tractor body. The integral damping system (1), together with front axle suspension (2) and cab suspension (3), ensures superior ride comfort (optional).

- The compact design and narrow bonnet of the Vario ensures best forward visibility
- Unobstructed view thanks to wide arm with integral hydraulic lines and crossbeam, which is located far forward
- Unique VisioPlus cab (300/500/700 Vario) with curved windscreen for an unobstructed view to the raised front loader
- Maximum ride comfort through integral damping system
- Nitrogen accumulator and valves lie protected in cross beam
- Fast and easy access to all components
- Damping system electrically engaged and disengaged from the cab (3x arm mechanical)
- Optimised visibility for all front loader work

Maximum comfort for better performance

Sensitive and precise

You will be thrilled by how easy the front loader is to operate, because it is perfectly integrated in the Fendt Vario. Two control valves can be controlled very precisely with the standard crossgate lever without having to reposition your hand.

Cargo enhanced controls

Complex implement functions can be controlled with the optional third and fourth hydraulic circuits. These are activated and controlled by push-buttons on the crossgate lever. The optional hydraulic attachment lock and the vibration damping system (optional) can also be conveniently operated from the driver seat using the enhanced controls on the Cargo.

Fast and easy direction changing

The rapid reverse function on your Vario allows you to change driving direction quickly and easily, without wear. When driving in pedal mode with TMS, both of your hands are free, allowing you to change travel direction with your left hand and control the Cargo with your right.



The standard-equipped crossgate lever controls the front loader very precisely via two control valves. When working with a silage or bale grab, the third and fourth hydraulic circuit (optional) can be actuated with the pushbuttons on the crossgate lever.

With the Cargo comfort controls, the third control circuit can be switched over to hydraulic attachment lock and the fourth control circuit to the optional damping system.

With the orange reverse lever, changing directions is easily done with the left hand. When the lever is pressed, the Vario stands still. When the lever is released, the tractor automatically drives in the preselected direction.



Fine adjustments can be made to the valve functions using the Varioterminal. For example, you can control the flow rate precisely and easily using the rotary controls and function keys.

The arrangement of the operating elements ensures optimum ergonomics. The Varioterminal gives you a clear overview of all control displays.



- Sensitive and precise front loader operation with crossgate lever
- Easy control of the third and fourth hydraulic circuits (optional) using the buttons on the crossgate lever
- Precise setting of valve functions via the Varioterminal
- Hydraulic attachment lock for fast attachment changes is optional (not for 3X arm)
- Ergonomic and easy reversing with the left hand
- Speed control with the driving pedal and easy front loader control with the right hand

The new generation front loader

Fendt now offers the new CargoProfi for the 300, 500 and 700 Vario series. Sensors installed in the arm allow completely new features to be realised, for example, a weighing and memo function. In this way, the Fendt CargoProfi offers you optimal settings for safe and controlled loader work.



Intelligent and ingenious

The CargoProfi

The new Fendt CargoProfi, available for the front loader models 4X/75, 4X/80, 5X/85 and 5X/90 is the consistent further development of the tractor-front loader unit. The front loader has a new measuring and tilt sensor system as well as a job computer for recording and processing various data and settings. These are easy to adjust and view in the Varioterminal.

Extremely practical

The functions on the CargoProfi make work easier thanks to intelligent presettings. This allows operators to limit the lifting height and tipping angle. This is a decisive safety factor in low buildings or when loading very high trailers. With the memo function, arm and attachment positions can be saved for frequently used sequences and called up again when required.

Shaken or damped?

The CargoProfi has a fast and effective shake function to ensure that all firmly packed material is dumped completely from the bucket. For loose material, on the other hand, losses caused by trickling are minimised through the new end position damping. The flow volume of the hydraulics is automatically reduced when approaching the highest or lowest position and the front loader reaches these without jerking.

Weight under control

The unique weighing function of the CargoProfi enables recording loads as individual and total weight. You have full control over the loaded quantity and total weight of the transport vehicle and can, e.g., utilise the loading volume optimally. The weighing function is also fully integrated in the operating concept of the Fendt Vario and is enabled with the push of a button. The information is always available for viewing in the Varioterminal.

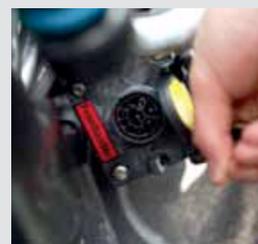


Display showing assignment of crossgate lever

Information from the weighing system: individual and total weight

Limiting of the working range for arm and attachment

The settings for the CargoProfi are adjusted easily and intuitively with the Varioterminal.



The Varioterminal and job computer on the front loader are connected via the CargoProfi socket.



The sensors for the CargoProfi functions are located on the right side of the front loader, where they lie well-protected.



Two pressure sensors in the crossbeam enable the weighing function of the CargoProfi.



Loader work, safe, easy and convenient

The advantages in operation are absolutely convincing. For example, the tipping angle can be limited when loading very high trailers. End position damping ensures the front loader is raised gently and smoothly, which minimises loss of material through trickling. The Memo function is especially practical for repeating sequences, for example, the horizontal lower position can be targeted automatically. The weighing function permits monitoring of the weight of the load.

- CargoProfi controls integrated in Varioterminal
- Weighing function: loads are weighed with the push of a button, both individual and total weight possible
- Limiting of the working range, such as lifting height and tilt angle
- Memo function
Save positions for arm and attachment
- End position damping
- Shake function
- Speed-dependent damping (automatic enabling and disabling)

Perfectly tailored to your Vario

A unit designed for quality

The basic prerequisite for all Fendt developments is the highest quality. A major objective during the development of the Cargo was to form a perfect unit with the tractor. The technical specifications and overall design of the tractor and front loader have been optimally adapted to each other.

Z-bar linkage

Further evidence that the front loader is perfectly adapted to all the Vario tractors is the tried and tested mechanical self-levelling function on the Cargo, in the form of Z-bar linkage. It ensures the best visibility. The parallel guidance ensures that attachments are kept in the same position over the entire lifting height. You can monitor its position at all times with the tilt indicator.

Lifetime design concept

High-grade materials ensure durability for a long service life. High-strength fine-grain steel is the key factor behind the life-time design of the new Fendt Cargo. In addition to high stability, it also guarantees a low weight. The Fendt profile, which is welded in one continuous seam, ensures high stability and therefore a long service-life. The generously sized bearing points also guarantee high durability and minimum wear.



Torsion-resistant arm for rugged jobs.

Optional 3rd and 4th circuit, also with multi-coupler

Broad line of Fendt attachments, optimally adapted to the Fendt Cargo

Cargo Lock with semi-automatic lock

Valve assembly integrated in cross beam

Parking supports mounted compactly on arm



Mechanical self-levelling – compact design through Z-bar linkage



All hydraulic components are fitted in the cross beam and are therefore optimally protected from dirt and mechanical damage. It also guarantees easy access to the hydraulic lines and valves for retrofitting and service work.

- Vario and Cargo build one exceptional unit
- Perfect visibility
- Life-time design for a long service life
- Refined self-levelling through Z-bar linkage
- The Fendt Cargo front loader is already taken into consideration during the design of the tractor, which results in the best possible coordination between the tractor and front loader

Mounting and removing made easy

Technology for fast mounting and removing

The new Fendt Cargo-Lock makes mounting and removing the loader easy and fast. The multi-coupler also saves time. It permits all electric and hydraulic lines to be connected with just one hand movement.

Really easy with Cargo-Lock

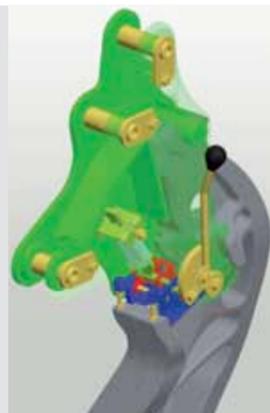
The semi-automatic locking system does away with inserting locking pins, which is often difficult. This really simplifies mounting and removing. Indicators on the inside of the loader towers permit the driver to view the status of the locking system at all times from the driver seat.

Ingenious multi-coupler

Just one hand movement is all it takes to connect the hydraulic and electric lines. With the standard-equipped multi-coupler, incorrectly connected hoses, oil contamination and high leakage losses are a thing of the past. Disconnecting is equally easy and just as clean. Even when there is excess pressure in the loader, for example, because it was standing out in the sun, the Cargo can be coupled without problems.

Perfect stand

The parking supports have been completely redesigned. Manual setting and adjusting is not necessary, which saves valuable working time. Bolts or cotter pins no longer need to be inserted. The self-adjusting parking supports are mounted compactly on the arm.



Fendt Cargo Lock: fast, easy mounting and removing guaranteed.



A multi-coupler connects all hydraulic and electric lines at once – even under pressure on the front loader side.



The self-adjusting parking supports are mounted compactly on the arm.



Semi-automatic attachment lock

The attachment is conveniently unlocked using a lever on the quick-attach frame, just one hand grip. When mounting an attachment, it can be locked automatically by tipping it back completely.



Hydraulic attachment lock

Operators can lock and unlock the attachment hydraulically with a pushbutton in the cab, so frequent attachment changes can be performed quickly, without climbing out of the cab. Two locking indicators allow operators to see if the attachment is locked on both sides (not for 3X arm).



- Automatic lock – Cargo Lock
- Maintenance-free mounting system
- Multi-coupler for mounting and removing the front loader is standard
- Parking supports mounted compactly on arm

Maintenance – fast and easy

Perfection in design

Since the designs of the front loader and the tractor have been specially adapted to each other from the very beginning, all maintenance work can be performed while the front loader is mounted. The front loader was designed to guarantee a very long service life through simple maintenance requirements and the use of the best materials.

Robust and hard-wearing

Maintenance and service-friendliness played an important role when developing the Fendt Cargo. The bearing points are large and extremely robust.

Flexible ballasting

Fendt offers you a comprehensive ballasting concept for frequent loader work. Wheel weights or rear weights, which are fast and easy to mount and remove, can be used, depending on the application. So your Vario always remains balanced.



The large-sized bearing points ensure play-free connections, durability and a minimum of wear. The bushes are made of high-grade bronze bearing material and have lubrication pockets.



The front loader mounting parts have been designed specifically for the Vario tractors, so all maintenance points are accessible, even when the front loader is mounted. For example, access to the oil dipstick was taken into account when designing the mounting brackets.



Wheel weights are available for optimum rear ballasting. They are mounted with the tried and proven Fendt coupling system.



Universal weights round off the ballasting system perfectly.

- Best access to all maintenance points on the tractor
- Simple and fast maintenance on the front loader
- Large-sized bearing sleeves
- Protected, easily accessible lubrication nipples
- Flexible ballasting at the rear

Back-end loader lifts higher

The solution for high-horsepower tractors

Fendt offers a special solution for loader work with the 800 and 900 Vario: the Cargo R. This back-end loader expands the range of applications possible for high-horsepower tractors. For example, in addition to transport work, high-horsepower tractors can be used to fill biogas facilities. Additional applications are loading grain and bales.

The technical advantages of the Cargo R

Advantages of Vario tractors are clear. Operators benefit from an outstanding view to the back-end loader. The rear wheel steering system makes steering corrections and very precise loading much easier, so that the Cargo R takes on the loading characteristics of a telehandler. An impressive loading height of up to 5.05 metres, a loading reach of 1.90 metres and a lift capacity of some 3 tonnes speak for themselves.

And this is how easy it is to use

The 4X/85 arm is attached to a bracket on the rear lift. The operator station is turned all the way around to the rear with the practical reversing driver station. The operating elements are located on the right-hand armrest, as accustomed, and adjustments are easily made with the crossgate lever and the toggle switches.



- Loader work is possible with the Fendt 800/900 Vario high-horsepower tractors thanks to Cargo R
- All operating elements at hand with practical reverse drive mode (optional)
- Ideal view to the back-end loader
- Precise steering corrections through rear wheel steering
- Loading height of up to 5.05 meters
- Loading reach of 1.90 metres ensures fewer passes over the material to be loaded
- Lift capacity of up to three tonnes

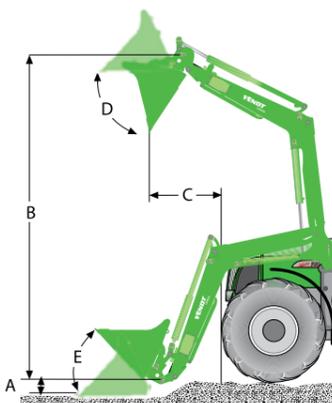


Console for mounting the Fendt Cargo R back-end loader

Technical specifications Cargo R

Max. lift capacity	3,000 daN
Max. lift height ¹⁾	5.05 m
Max. lift height ²⁾	4.12 m
Loading reach ³⁾	1.90 m

1) Lower links raised
2) Lower links horizontal
3) at 3.50 m lift height



A Digging depth (mm)
 B Lifting height (mm)
 C Dumping distance (mm)
 D Angle of emptying 55°
 E Angle of backwards tilt 48°

Front loader model	3X/65	3X/70 ²⁾	4X/75	4X/80	4X/85 ³⁾	5X/85	5X/90
200 Vario series							
continuous Lift capacity daN		1680					
max. lift capacity daN		1850					
Lifting height mm ¹⁾		3740					
Digging depth mm ¹⁾		210					
Dumping distance (at max. height) ¹⁾		860					
Dumping distance (at 3.5 m) ¹⁾		1170					

Front loader model	3X/70 ²⁾	4X/75 compact	4X/75	4X/80	4X/85 ³⁾	5X/85	5X/90
300 Vario series							
continuous Lift capacity daN	2000	1940	1940				
max. lift capacity daN	2190	2250	2250				
Lifting height mm ¹⁾	3900	4050	4050				
Digging depth mm ¹⁾	60	225	225				
Dumping distance (at max. height) ¹⁾	1030	1260	1260				
Dumping distance (at 3.5 m) ¹⁾	1450	1780	1780				

Front loader model	3X/65	3X/70 ²⁾	4X/75	4X/80	4X/85 ³⁾	5X/85	5X/90
500 Vario series							
continuous Lift capacity daN			1940	2260			
max. lift capacity daN			2250	2620			
Lifting height mm ¹⁾			4125	4125			
Digging depth mm ¹⁾			180	180			
Dumping distance (at max. height) ¹⁾			1210	1210			
Dumping distance (at 3.5 m) ¹⁾			1750	1750			

Front loader model	3X/65	3X/70	4X/75	4X/80	4X/85 ³⁾	5X/85	5X/90
700 Vario series							
continuous Lift capacity daN					2600	2600	2950
max. lift capacity daN					3000	3000	3460
Lifting height mm ¹⁾					4150	4460	4460
Digging depth mm ¹⁾					130	250	250
Dumping distance (at max. height) ¹⁾					980	1080	1080
Dumping distance (at 3.5 m) ¹⁾					1610	1910	1910

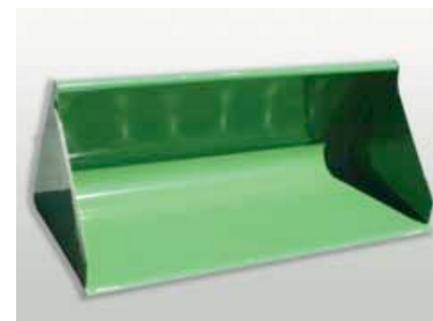
¹⁾Depends on tyres ²⁾ 3X/70 only with 28 inch front tyres ³⁾ 4X/85 only with 28 inch front tyres

1 daN = 10 N = approx. 1 kg

Front loader model	3X/65	3X/70	4X/75	4X/80	4X/85	5X/85	5X/90
Equipment							
Lift cylinder da	●	●	●	●	●	●	●
Quick-attach frame	●	●	●	●	●	●	●
Manual implement lock	●	●	●	●	●	●	●
Synchronous tipping cylinder			●	●	●	●	●
Mechanical parallel guidance	●	●	●	●	●	●	●
Front guard	●	●	●	●	●	●	●
Level indicator	●	●	●	●	●	●	●
Damping system da	□	□	□	□	□	□	□
Pipe rupture protection ¹⁾	●	●	●	●	●	●	●
Lowering throttle valve	●	●	●	●	●	●	●
Load holding valve	●	●	●	●	●	●	●
Multi-coupler front loader	●	●	●	●	●	●	●
Hydraulic attachment lock			□	□	□	□	□
3rd & 4th Hydraulic working circuit	□	□	□	□	□	□	□
Multi-coupler for 3rd & 4th circuit	□	□	□	□	□	□	□

Tractor equipment							
Crossgate lever	●	●	●	●	●	●	●
Front window can be opened completely	●	●	●	●	●	●	●
3rd & 4th control circuit	□	□	□	□	□	□	□
Multi-coupler attachment	□	□	□	□	□	□	□

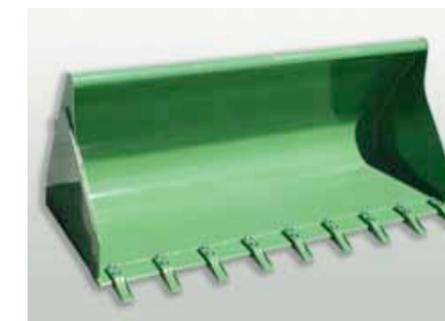
¹⁾ not applicable if damping system is installed



The light material bucket is available in the widths 1850 mm (0.976 m³ flush volume) and 2400 mm (1.265 m³ flush volume)



The universal bucket is available in four different sizes: 1600 mm wide (0.538 m³ flush volume), 1850 mm wide (0.622 m³ flush volume), 2100 mm wide (0.706 m³ flush volume) and 2400 mm wide (0.807 m³).



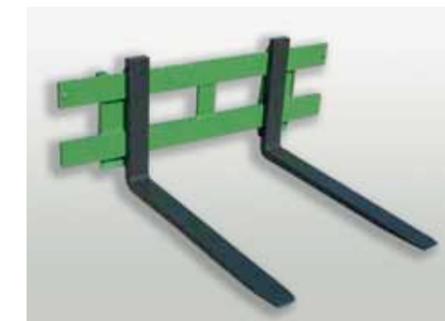
The heavy-duty bucket is available in the widths 1600 mm (0.512 m³ flush volume) and 2100 mm (0.672 m³ flush volume)



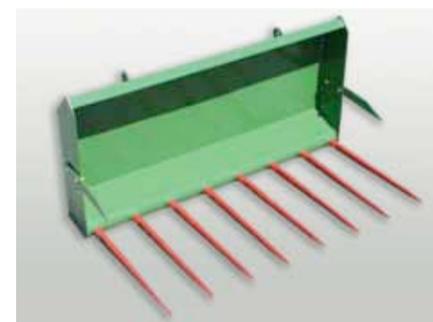
The bale grab is designed for bales with an outer diameter ranging from 900 mm to 1900 mm.



The big bale fork has three tines and is 1500 mm wide.



The palette fork is designed for loads up to 2000 kg, tine length 1100 mm.



The manure fork is available in 1500 mm and 2100 mm widths.



The silage bucket is available in two sizes: 1800 mm wide (1.00 m³ flush volume) and 2200 mm (1.25 m³ flush volume).

FENDT

Leaders drive Fendt



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All data regarding delivery, appearance, performance, dimensions and weight, fuel consumption and running costs of the vehicles correspond with the latest information available at the time of going to press. Changes may be made before the time of purchase. Your Fendt dealer will be pleased to supply you with up-to-date information.

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