

FENDT

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Fendt 500 Vario

ONE IS
SIMPLE:
FendtONE

It's Fendt. Because we understand Agriculture.

Fendt 500 Vario - Because you have a clear view everywhere - on the machine and in the office.

Conditions in agriculture are becoming increasingly challenging: from extreme weather events to stricter legal guidelines. With the Fendt 500 Vario with FendtONE, we offer you something that makes your work easier - both on the machine and in the planning in the office and working in the field. In addition, the Fendt 500 Vario scores with its outstanding check spelling. Maneuverability and clarity. It's no surprise that the Fendt 500 Vario is one of the most popular all-round tractors: strong in the field, maneuverable for municipal work, economical fuel consumption and comfortable and safe on the road.

- Power segment 124 - 163 hp
- FendtONE operating philosophy:- new driver workstation (onboard)- planning and management functions with FendtONE offboard
- 3 front linkage options. Load relief control available
- VisioPlus cab in 3 different versions
- Standard headland management Fendt TI
- Fendt Reaction steering system
- Fendt Guide with receiver selection
- Choice of numerous Smart Farming features such as Fendt TI Headland for professional headland work
- Software updateable: performance that grows with you

Engine		512 Vario	513 Vario	514 Vario	516 Vario
Rated power ECE R 120	kW/Hp	91/124	98/133	110/150	120/163
Max. torque at 1500 U/min	Nm	564	604	663	699

So that tractor and office become one.

Future as standard.

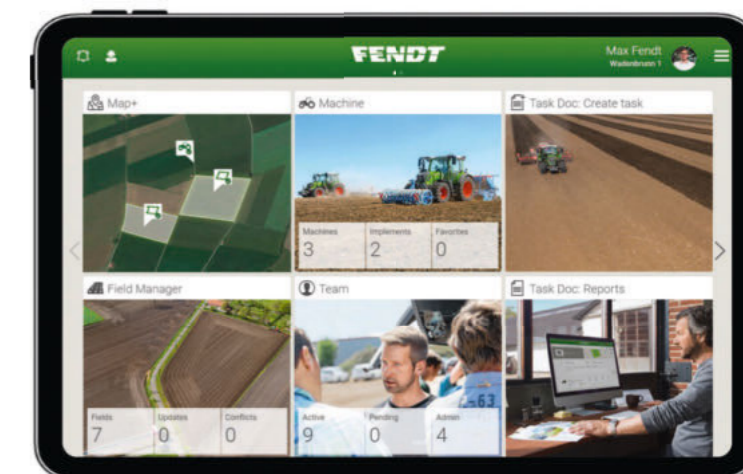
Until now, field and office work have been regarded as two different areas that are directly related but take place separately and are supported by different systems. At Fendt, we think ahead. FendtONE is a holistic system that expands the previous functions on the machine (onboard) to include planning and management components (offboard). The operating logic is identical in both areas.

Onboard:

- New armrest with Fendt-known elements
- Flexible key assignment via the Individual Operation Manager (IOM)
- Up to three displays available: 10" dashboard, 12" terminal on armrest, 12" roof terminal
- Colour coding of the different function groups, also for function reassignment
- Fully ISOBUS capable 3L joystick with reverse button and up to 27 functions

Offboard:

- Clear team, machine and field management
- Simple order creation in just a few clicks
- Order report in PDF format as a basis for documentation
- Location-independent machine localization and viewing of specific machine parameters as well as weather data





Fendt Spotlights - 12 Fendt solutions that make the difference.

1.



1. VisioPlus cab

- Spacious cab with a field of vision of 77°
- Numerous storage compartments
- Comfortable passenger seat

4.

4. professional headland management Fendt TI Headland

- Storing and automatic triggering of a sequence of working steps at the headland for maximum precision and comfort
- Automatic turning at the headland

2.



2.

2. front linkage cat. 2 with position and relief control

- Front linkage fully integrated into the vehicle concept
- Permanent height adaption of the implement to the grounds contours

5.

5. software updates - always up to date with the latest technology

- Securing the technical advantage and the value retention of the machine

3.

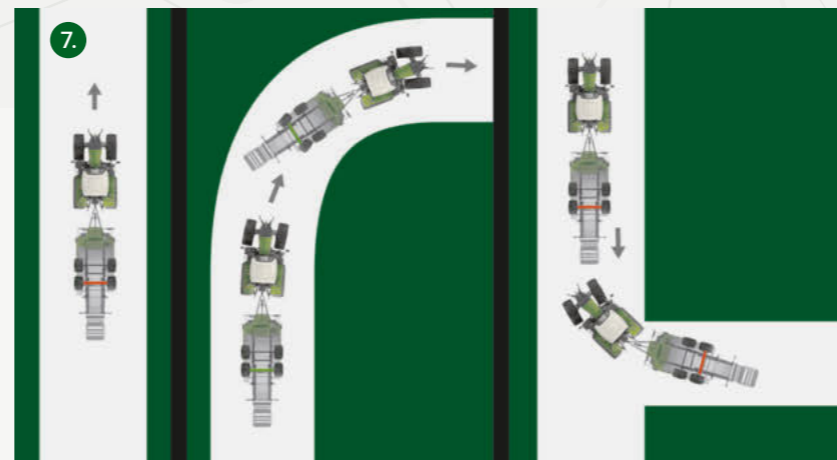
3. front loader Fendt CARGO 4X/80 DW with 3rd valve

- Up to three loader functions can be carried out simultaneously, eg when using a grab, the loader can be raised, grab tipped and opened all at the same time.

6.

6. Fendt Reaction steering system

- safe straight-ahead running: steering wheel is automatically guided to the centre position
- Safe and precise steering: Driving comfort like a car/truck



Fendt Spotlights - 12 Fendt solutions that make the difference.

7. automatic steering axle lock

- Stable handling on the straight thanks to automatic locking of the steering
- Trailed steering axle of trailers is automatically unlocked within a selectable speed range
- No need to manually lock the trailed steering outside the selected speed range or when reversing

8. infotainment package + 4.1 sound system

- Hands-free system: 8 microphones installed in the roof liner for perfect acoustics
- Best radio reception thanks to FM/AM/DAB+/HD and permanent station search via two antennas
- Four high-end speakers and a subwoofer for superior sound quality
- MP3 playback via USB, AUX-IN or via Bluetooth directly from your smartphone

9. even more comfortable on the track: Fendt Contour Assistant

- Addition of "contour segments" and "single track" to the known swap track lines for waylines types
- Fast and easy recording of swap track lines for waylines, automatic creation of contour segments based on the field boundary
- Simple recording of any single lane (e.g. tramline), which can be followed identically.

10. automatic section control for several devices simultaneously: Section Control with Multi Device Control

- Independent switching of the boom part width sections of up to five application units simultaneously (useful e.g. for maize sowing with front fertiliser hopper)
- Support of up to 144 sections

11. Variable rate application per part width section: Variable Rate Control with Zone Control

- Variable control of the application rate per part width section (zone) with corresponding equipment of the implement
- Support for up to 144 zones

12. machine performance at a glance at all times: Fendt Connect

- Fendt telemetry solution for analysing and optimising machine operations
- Mobile data transmission of machine parameters such as location, distance traveled, fuel consumption, etc.
- Avoid or reduce downtime of downtimes through remote diagnosis
- five years telemetry access included



Equipment lines.

In order to design the workstation to best suit your requirements, you can choose between four equipment variants: **Power, Power+, Profi, Profi+**
 You can choose between Setting 1 or Setting 2:



Power Setting 1

- Optional: with terminal on the armrest
- Without cross gate lever
- Two finger tip spools (linear module) for operating the hydraulic valves

Power Setting 2

- Optional: with terminal on the armrest
- Cross gate lever
- No finger tip spools (linear module) for operating the hydraulic valves



Power+ Setting 1

- 12" terminal on the armrest
- Cross gate lever
- Two finger tip spools (linear module) for operating the hydraulic valves

Power+ Setting 2

- 12" terminal on the armrest
- 3L joystick
- Two finger tip spools (linear module) for operating the hydraulic valves

Profi Setting 1/ Profi+ Setting 1

- 12" terminal on the armrest
- Cross gate lever
- Four finger tip spools (linear modules) for operating the hydraulic valves

Profi Setting 2/ Profi+ Setting 2

- 12" terminal on the armrest
- 3L joystick
- Four finger tip spools (linear modules) for operating the hydraulic valves

All illustrations show standard equipment and optional front linkage.

Equipment variants.*

	Power	Power+	Profi	Profi+
Engine				
Fuel pre-filter (heated)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preheater unit (engine, transmission, hydraulic oil)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transmission				
Shuttle function, stop-and-go function	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Acoustic signal when reversing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guidance system				
Guidance system basic package		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Standard Trimble / NovAtel		<input type="checkbox"/>		<input type="checkbox"/>
RTK Trimble / NovAtel		<input type="checkbox"/>		<input type="checkbox"/>
TI Headland (TI Auto & TI Turn)				
Contour Assistant		<input type="checkbox"/>		<input type="checkbox"/>
Agronomy				
Agronomy basic package		<input type="checkbox"/>		<input checked="" type="checkbox"/>
Telemetry				
Telemetry basic package		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Smart Connect				<input type="checkbox"/>
Machine control				
Machine control basic package (ISOBUS)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Front implement control (ISOBUS)			<input type="checkbox"/>	<input type="checkbox"/>
Section Control (SC)		<input type="checkbox"/>		<input type="checkbox"/>
Variable Rate Control (VRC)		<input type="checkbox"/>		<input type="checkbox"/>
Vario operation				
Multi-function joystick with cruise control, engine speed memory, automatic modes, controls for hydraulics	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3L joystick		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Individual Operation Manager – flexible key assignment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Digital Dashboard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
12" terminal with touchscreen and key control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Second 12" terminal in roof			<input type="checkbox"/>	<input type="checkbox"/>
Electronic immobiliser	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cab				
Mechanical cab suspension	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pneumatic cab suspension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Super comfort seat 3-point belt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comfort seat, air sprung	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Super Comfort Seat, air sprung	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Super comfort seat Evolution dynamic / CA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Power	Power+	Profi	Profi+
Super Comfort Seat Evolution dynamic DuMo/CA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Super Comfort Seat Evolution dynamic DuMo leather / CA			<input type="checkbox"/>	<input type="checkbox"/>
Comfort instructor seat			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Air-conditioning	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Integrated automatic climate control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Split windscreen and door on right	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continuous windscreen	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
One-piece windscreen and door on right	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rear window heated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Segment wipers front	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
300°-front windscreen wipers (with continuous windscreen)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Rear window wash/wipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rear view mirror and wide-angle mirror electrically adjustable, heated			<input type="checkbox"/>	<input type="checkbox"/>
Terminal bracket	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radio mounting kit with two stereo speakers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Infotainment package	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Infotainment bundle + 4.1 sound system			<input type="checkbox"/>	<input type="checkbox"/>
4 USB ports			<input type="checkbox"/>	<input type="checkbox"/>

	Power	Power+	Profi	Profi+
Chassis				
Front axle suspension self-levelling, lockable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Steering brake	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Automatic trailer steering axle lock			<input type="checkbox"/>	<input type="checkbox"/>
Compressed air system 2-circuit system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Compressed air Duomatic coupling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Power	Power+	Profi	Profi+
Power lift				
Sa front power lift, with external control (separate valve)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comfort front power lift da, with position control, external controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comfort front power lift da, with position control and relief control, external controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrohydraulic power lift da (EHR), with external controls			<input type="checkbox"/>	<input type="checkbox"/>
Electrohydraulic power lift sa (EHR), with external controls	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

	Power	Power+	Profi	Profi+
PTO				
Front: 1000 rpm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rear PTO 540/540E/1000 rpm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Rera PTO 540E/1000/1000E rpm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rear: Flanged PTO 540/1,000 rpm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Power	Power+	Profi	Profi+
Hydraulics				
EHS valve actuation crossgate lever, multi-function joystick	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
EHS valve actuation linear module	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

	Power	Power+	Profi	Profi+
Additional equipment				
External control for hydraulic control unit at rear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load sensing system with axial piston pump (75 l/min)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Load sensing system with axial piston pump (110 l/min)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Load sensing system with axial piston pump (158 l/min)			<input type="checkbox"/>	<input type="checkbox"/>
1st and 2nd EHS valve at rear	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3rd EHS valve at rear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4th EHS valve at rear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5th EHS valve at rear			<input type="checkbox"/>	<input type="checkbox"/>
1st front EHS valve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2nd front EHS valve			<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic power beyond connection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unpressurised rear return flow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Double connect-under-pressure lever couplings rear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUP coupling rear	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Bio hydraulic oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Power	Power+	Profi	Profi+
Manual hitch				
Automatic trailer hitch with remote control, rear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ball coupling, height adjustable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ball coupling in the bottom hitch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hitch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drawbar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Piton-fix	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comfort ballast for front-end weight (not available with front power lift)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wheel weights, rear wheels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Forced steering (one or two-sided)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pivoting front wheel mudguard	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

	Power	Power+	Profi	Profi+
Front loader				
Front loader attachment parts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Front loader Cargo 4X/75	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Front loader Cargo 4X/75 - third valve		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Front loader Cargo 4X/80	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Front loader Cargo 4X/80 - third valve		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Front loader Cargo Profi 4X/80			<input type="checkbox"/>	<input type="checkbox"/>
Front loader Cargo Profi 4X/80 - third valve			<input type="checkbox"/>	<input type="checkbox"/>

* Please refer to the Settings for equipment variants

Technical specifications.

		512 Vario	513 Vario	514 Vario	516 Vario
Engine					
Rated power ECE R 120	kW/hp	91/124	98/133	110/150	120/163
Maximum power ECE R 120	kW/hp	96/131	104/141	115/156	126/171
No. of cylinders	number	4	4	4	4
Cylinder bore/stroke	mm	101/ 126	101/ 126	101/ 126	101/ 126
Cubic capacity	cm³	4038	4038	4038	4038
Rated speed	rpm	2100	2100	2100	2100
Max. torque at 1500 rpm	Nm	564	604	663	699
Torque rise	%	36.0	35.0	33.0	28.0
Fuel level	litres	298.0	298.0	298.0	298.0
AdBlue tank	litres	31.0	31.0	31.0	31.0

		512 Vario	513 Vario	514 Vario	516 Vario
Transmission and PTO					
Transmission type		ML 90	ML 90	ML 90	ML 90
Speed range 1	km/h	0,02-28	0,02-28	0,02-28	0,02-28
Speed range 1 - reverse	km/h	0,02-17	0,02-17	0,02-17	0,02-17
Speed range 2	km/h	0,02-50	0,02-50	0,02-50	0,02-50
Speed range 2 - reverse	km/h	0,02-33	0,02-33	0,02-33	0,02-33
Top speed	km/h	50	50	50	50
Rear PTO		540/ 540E/ 1000	540/ 540E/ 1000	540/ 540E/ 1000	540/ 540E/ 1000
Rear PTO option		540E/ 1000 /1000E	540E/ 1000 /1000E	540E/ 1000 /1000E	540E/ 1000 /1000E
Front PTO option		1000	1000	1000	1000

		512 Vario	513 Vario	514 Vario	516 Vario
Power lift and hydraulics					
Variable flow pump	l/min	75	75	75	75
Variable flow pump option 1	l/min	110	110	110	110
Variable flow pump option 2	l/min	158	158	158	158
Working pressure / control pressure	bar	200/20	200/20	200/20	200/20
Max. valves (front/centre/rear) Power / Power+	number	0/0/4 od. 1/0/3	0/0/4 od. 1/0/3	0/0/4 od. 1/0/3	0/0/4 od. 1/0/3
Max. valves (front/centre/rear) Profi / Profi+	Number	2/0/5	2/0/5	2/0/5	2/0/5
Max. available hydraulic oil volume	litres	55	55	55	55
Max. lift capacity of rear power lift	daN	7890	7890	7890	7890
Max. lift capacity of front power lift	daN	3420	3420	3420	3420

		512 Vario	513 Vario	514 Vario	516 Vario
Tyres					
Front tyres (standard)		480/65R28	480/65R28	480/70R28	540/65R28
Standard tyres rear		600/65R38	600/65R38	580/70R38	650/65R38
1st option for front tyres		16.9R28	16.9R28	480/65R28	480/65R28
1st option for rear tyres		20.8R38	20.8R38	600/65R38	600/65R38
Dimensions					
Front track width (standard tyres)	mm	1880	1880	1880	1880
Rear track width (standard tyres)	mm	1860	1860	1860	1860
Overall width with standard tyres	mm	2450	2450	2450	2505
Overall length	mm	4453	4453	4453	4453
Max. ground clearance	mm	530	530	530	530
Wheelbase	mm	2560	2560	2560	2560

		512 Vario	513 Vario	514 Vario	516 Vario
Weights					
Unladen weight (base tractor with cab - full tanks, without driver)	kg	6050.0	6050.0	6400.0	6400.0
Max. permissible overall weight up to 40 km/h country-specific exception approval required	kg	10500.0	10500.0	10500.0	10500.0
Max. permissible overall weight up to 50 km/h country-specific exception approval required	kg	10500.0	10500.0	10500.0	10500.0
Max. trailer hitch load	kg	2000.0	2000.0	2000.0	2000.0