

Model versions

Technical Specifications

Standard and Optional Equipment | ● = standard | □ = optional

Fendt 500 Vario Power version



Fendt 500 Vario Profi and ProfiPlus version



Photos show optional equipment

Fendt	512	513	514	516
Engine				
Rated power ECE R 24 (kW/hp)	81/110	88/120	99/135	110/150
Maximum power ECE R 24 (kW/hp)	92/125	99/135	107/145	121/165
Rated power EC 97 / 68 (kW/hp)	91/124	99/134	109/148	120/163
Maximum power EC 97 / 68 (kW/hp)	96/131	103/140	113/154	124/169
No. of cylinders/cooling	4/water	4/water	4/water	4/water
Cylinder bore/stroke (mm)	101/126	101/126	101/126	101/126
Cubic capacity (cm³)	4038	4038	4038	4038
Rated engine speed (rpm)	2100	2100	2100	2100
Engine speed at max. power (rpm)	1800	1800	1800	1800
Optim. fuel consumption (g/kWh)	192	192	192	192
Max. torque 1450 rpm (Nm)	550	590	649	687
Torque rise (%)	42	40	38	33
Fuel tank (l)	298	298	298	298
AdBlue® (l)	31	31	31	31
Oil change interval operating hrs	500	500	500	500

Transmission/PTO				
Continuously variable Vario transmission ML 90	50 km/h	50 km/h	50 km/h	50 km/h
Field	Range I: 0.02-28 km/h; reverse 0.02-17 km/h			
Road	Range II: 0.02-50 km/h; reverse 0.02-33 km/h			
Engine PTO rear (rpm)	540/540E/1000			
Front PTO (rpm)	540 or 1000			

Linkage				
Type of control	Electro-hydraulic control			
Variable displacement pump capacity (l/min) (pressure 200 + 10bar)	Power 75 (option 110), Profi/ProfiPlus 110 (option 158)			
Max. lift capacity on the drawbar (daN) ¹⁾	7780	7780	7780	7780
Front linkage max. lift capacity (daN) ¹⁾	3420	3420	3420	3420
Implement weight/front linkage up to approx. (kg)	2460	2460	2460	2460
Max. vertical hitch load (kg) with standard tyres and 50 km/h	2000	2000	2000	2000

Weights and dimensions				
Track width front (mm)	1880	1880	1880	1880
Track width rear (mm)	1860	1860	1860	1860
Overall length (mm)	4453	4453	4453	4453
Overall width (mm)	2451	2451	2451	2451
Overall height cab (mm) without VarioGuide	2930	2930	2965	2965
Max. ground clearance (mm)	530	530	530	530
Wheelbase (mm)	2560	2560	2560	2560
Min. turning circle (m) ²⁾	5.29	5.29	5.52	5.52
Unladen weight (kg)	6050	6050	6400	6400
Perm. overall weight (kg)	10500	10500	10500	10500

Electrical equipment				
Starter (kW)	3.1	3.1	3.1	3.1
Battery	12 V / Power 100 Ah, Profi/ProfiPlus 180 Ah			
Alternator	14 V / 200 A			

Tyres				
Standard front	480/65R28	480/65R28	480/70R28	540/65R28
Standard rear	600/65R38	600/65R38	580/70R38	650/65R38
Optional front	16.9R28	16.9R28	480/65R28	480/65R28
Optional rear	20.8R38	20.8R38	600/65R38	600/65R38
Optional front	480/70R28	480/70R28	16.9R28	16.9R28
Optional rear	580/70R38	580/70R38	20.8R38	20.8R38
Optional front	540/65R28	540/65R28	540/65R28	480/70R28
Optional rear	650/65R38	650/65R38	580/70R38	580/70R38
Optional front	270/95R36	270/95R36	270/95R36	270/95R36
Optional rear	320/90R50 ²⁾	320/90R50 ²⁾	320/90R50 ²⁾	320/90R50 ²⁾

¹⁾ 1 daN = 10 N = approx. 1 kg. ²⁾ Recommended for row crop tyres, not available from Fendt

Equipment levels	Power	Profi	ProfiPlus
Vario controls			
Multi-function joystick with cruise control, engine speed memory, automatic modes, controls for hydraulics	●	●	●
Varioterminal 7" with touch and key control	●		
Varioterminal 10.4" with touch and key control, 2 camera ports, incl. VarioDoc		□	●
VarioDoc documentation system		□ ¹⁾	□
VarioDoc Pro - documentation system / AgCommand telemetry system		□ ¹⁾	□
Variotronic implement control (ISOBUS)		□	●
SectionControl			□
Variotronic ²⁾ Headland Management System	●	●	●
Vario TMS Tractor Management System	●	●	●
Preparation VarioGuide automatic steering system			●
VarioGuide automatic steering system			□
VarioGuide light automated steering system		□	
VarioActive steering			●

Cab	Power	Profi	ProfiPlus
Split windscreen and door on right	□	□	□
One-piece windscreen	●	●	●
Mechanical cab suspension	●	●	●
Pneumatic cab suspension	□	□	□
Height and tilt-adjustable steering column	●	●	●
Comfort seat, air suspended with back rest (w/o rotary adapter/seat cushion adjustment, simple arm-rest adjustment)	●	●	●
Super comfort seat with seat heater, lumbar support	□	□	□
Super comfort seat Evolution Dynamic with climate control, seat heater, lumbar support and seat suspension (only with compressed air system)	□	□	□
Passenger seat with automatic seat belt	●		
Comfort passenger seat with automatic seat belt		●	●
Radio mounting kit with 2 stereo speakers	●	●	●
Radio CD MP3 Blaupunkt with 2 stereo speakers	□	□	□
4 stereo speakers		□	□
Air-conditioning	●	●	●
Automatic climate control		□	□
Pollutant filter (aerosol)	●	●	●
Segment wipers front	●	●	●
Parallel wipers front	□	□	□
Rear window heated	□	□	□
Ext. rearview mirror, mechanically adjustable	●	●	●
Ext. rearview mirror, electrically adjustable, heated		□	□
Ext. rearview mirror and wide-angle mirror mechanically adjustable	□		
Ext. rearview mirror electrically adjustable and wide-angle mirror heated		□	□
Interior rearview mirror		●	●
Corner lights / chrome trim on direction indicators		●	●
Work lights roof, 4 rear, 2 front	●	●	●
Work lights A-pillar, roof front, mudguard rear	□	□	□
Work lights Xenon A-pillar, roof front, mudguard rear	□	□	□
Work light LED A-pillar, mudguard rear	□	□	□
LED rear lights	□	□	□
Ambient lighting	●	●	●
Bracket for auxiliary devices	□	□	□
Cooling compartment	●	●	●
Electric battery disconnect switch	□	□	□
Add. storage space, 12 Volt left, light in roof liner left		●	●

Engine	Power	Profi	ProfiPlus
Fuel pre-filter	□	□	□
Heated fuel prefilter	●	●	●
Preheater package (engine, transmission, hydraulic oil)	□	□	□
Exhaust brake	□	□	□

Transmission	Power	Profi	ProfiPlus
Shuttle function, stop-and-go function	●	●	●
Acoustic signal when reversing		□	□

Equipment levels	Power	Profi	ProfiPlus
Chassis / safety features			
Compressed air system	□	□	□
Automatic trailer steering axle lock		□	□
Compressed air Duomatic coupling	□	□	□
4WD / differential locks			
Comfort engagement controls for 4WD / differential locks	●	●	●
Rear / front differential with 100% disc locking	●	●	●

Power shift PTOs	Power	Profi	ProfiPlus
Rear PTO 540/540E/1,000 rpm	●	●	●
Vario 540 or 1,000 rpm	□	□	□
External controls for rear PTO	●	●	●

Hydraulics	Power	Profi	ProfiPlus
Load-sensing system with 75 l/min delivery capacity	●		
Load-sensing system with 110 l/min delivery capacity	□	●	●
Load-sensing system with 158 l/min delivery capacity		□	□
Electrohydraulic rear linkage sa (EPC)	●	●	●
Electrohydraulic rear linkage da (EHR), with external controls		□	□
Control with linear elements		●	●
1st and 2nd hydraulic valve at rear	●	●	●
3rd hydraulic valve at rear	□	□	□
4th hydraulic valve at rear or 3rd hydraulic valve at rear and 1st hydraulic valve in front	□		
4th to 5th hydraulic valve at rear		□	□
1st to 2nd hydraulic valve in front		□	□
Radar sensor		□	□
Top link rear hydraulic	□	□	□
Hydraulic power beyond connection	□	□	□
Hydraulic valve actuation crossgate lever, connect-under-pressure couplings rear	●	●	●
Double connect-under-pressure lever couplings rear	□	□	□
Easy ballast weight pick-up without front linkage	□	□	□
Front linkage da with external controls	□	□	□
Comfort front linkage da, with position control, external controls	□	□	□
Comfort front linkage da, with position control and load relief control, external actuation (only together with rear linkage da)		□	□

Body	Power	Profi	ProfiPlus
ABS trailer sockets		□	□
Mechanical hitch	●	●	●
Auto. hitch with remote control, rear	□	□	□
Ball-type coupling, height adjustable	□	□	□
Ball-type coupling in the bottom hitch	□	□	□
Ball-type coupling long in the bottom hitch	□	□	□
Hitch	□	□	□
Swinging drawbar	□	□	□
PitonFix	□	□	□
Rotating beacon left and right	□	□	□
Pivoting front wheel mudguard	□	●	●
Front weights, various sizes	□	□	□
Ballast weights for rear wheels	□	□	□

Front loader	Power	Profi	ProfiPlus
Front loader attachment parts			
Front loader Cargo 4X/75	□	□	□
Front loader Cargo 4X/80	□	□	□
Front loader Cargo Profi 4X/80	□	□	□

¹⁾ only for 10.4" Varioterminal