

# Fendt Auto-Guide<sup>Pro</sup>



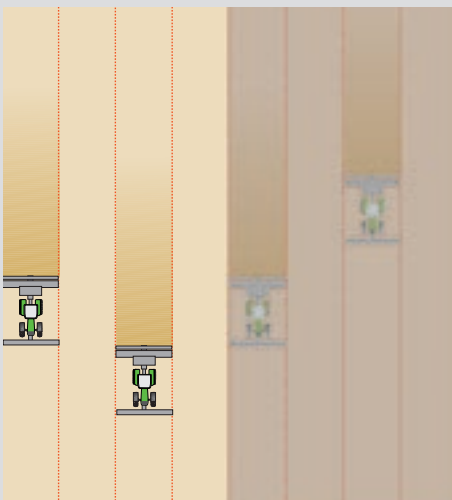
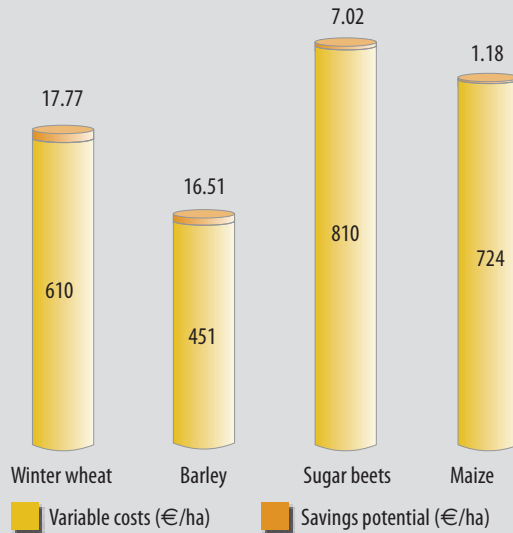
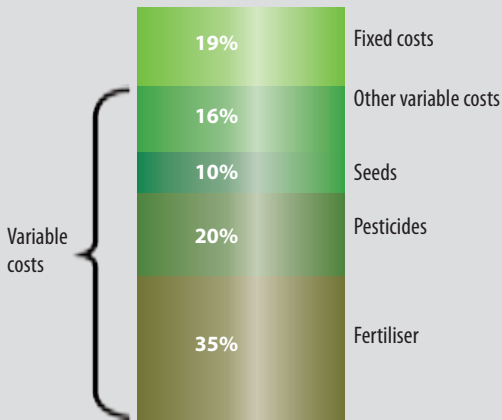
**AUTO-GUIDE**

**FENDT**

# Fendt Auto-Guide<sup>Pro</sup> – assistance for professional work

The greatest share of costs in arable farming can be attributed to variable costs. These are directly correlated to the area that is worked. With Auto-Guide<sup>Pro</sup>, machines and implements can be utilised more effectively, which reduces variable costs for operating materials used.

For grain, the savings potential of Auto-Guide<sup>Pro</sup> lies at up to four percent of the variable costs. Extrapolated to a market crop production business with 500 hectares (75% wheat and barley, 25% oilseed rape), this saves some 8,000 euro per year overall (sources: KTBL).



Faster turning manoeuvres, since the field is cultivated bed by bed, and fast and precise tracking. This is possible with Auto-Guide<sup>Pro</sup>, even under poor visibility conditions such as at night, in fog and dust or during pre-emergence work.

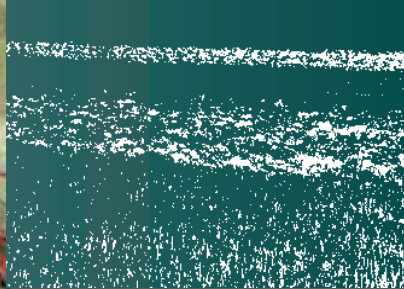
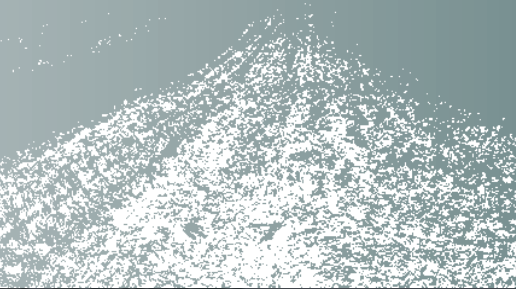


With Auto-Guide<sup>Pro</sup>, drivers can concentrate fully on the implements and are not occupied with steering the tractor. That increases driver performance and has a positive effect on overall working quality.



**The high profitability of Fendt Vario tractors has been confirmed many times. Low fuel consumption, long service intervals and a high resale value are only three of many convincing arguments for the Vario. The benefits of Auto-Guide<sup>Pro</sup> further enhance the overall profitability of the Varios.**

**Auto-Guide<sup>Pro</sup> - even more profitable** Auto-Guide<sup>Pro</sup> cuts variable costs and reduces working time. On the one hand, this is achieved through the reduction of overlaps and, on the other, through time saved manoeuvring at the headlands, since fields are cultivated bed by bed. Overall that means shorter working times and less consumption of fuel and operating materials such as seeds, fertiliser or pesticides.



- Saves costs for seeds, fertiliser and pesticides
- Saves fuel and reduces working time
- Optimises machine utilisation
- Lowers repair costs through reduced implement wear
- Increases area coverage
- Reduces overlaps and skips
- Reduces driver fatigue
- Enhances driving comfort
- Increases working quality
- Provides constant performance under all visibility conditions

### **Enhanced driving comfort**

Auto-Guide<sup>Pro</sup> not only gives you greater profitability from a financial perspective, it also improves driving comfort. When making a run, you do not need to steer, which allows you to focus your attention on the actual work being done with the implement.

You can find the right track quickly and easily with Auto-Guide<sup>Pro</sup>, even under poor visibility

conditions or during pre-emergence work. In that way you remain fit over the entire day and in the evening, you will climb out of the tractor feeling more relaxed.

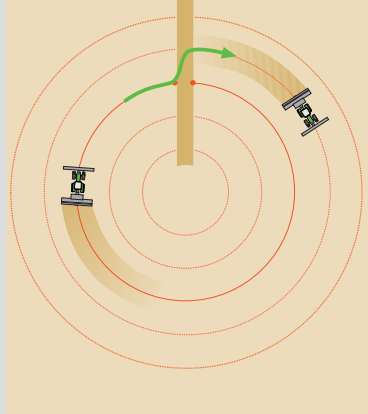
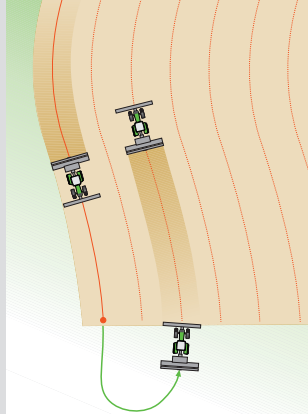
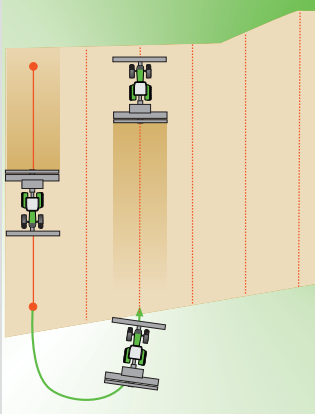
# Fendt Auto-Guide<sup>Pro</sup> – the way to the right track

Fendt Auto-Guide<sup>Pro</sup> suits your individual requirements and manages almost any shape of field:

**Fendt-proLine:** the classic automatic steering system for driving along precise straight parallel lines.

**Fendt-proContour:** for guidance along curved, parallel lines.

**Fendt-proCircle:** for guidance along concentric circular tracks



The colour terminal permits simple and logical operation of Auto-Guide<sup>Pro</sup>. A broad range of memory options, for example, for field boundaries or obstacles make your work easier. Moreover, on the terminal you can view the areas that have already been worked. This facilitates orientation in the field and at the headlands when visibility conditions are poor.

Enables automatic steering



900 Vario



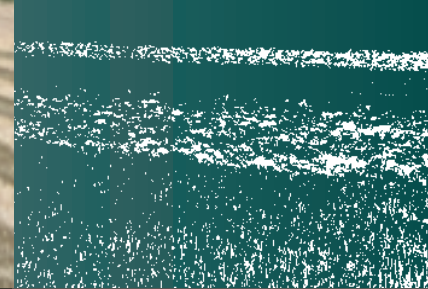
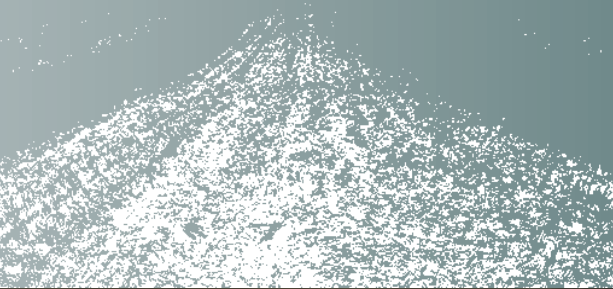
700 Vario / 800 Vario

Since it is integrated in the Vario control concept, there are several options for enabling steering assist. Auto-Guide<sup>Pro</sup> can be enabled through the terminal on the multi-function armrest (900 Vario) or the side console (700 Vario, 800 Vario), or through the headland management Variotronic<sup>II</sup>.

**Auto-Guide<sup>Pro</sup> helps you perform field work efficiently, particularly beneficial on long working days. The ergonomic controls are perfectly integrated into the workplace on the Fendt Vario tractors. The automatic steering system has numerous functions that provide you with excellent conditions for performing your work.**

## Always on the right track

Well-thought out functions facilitate optimum cultivation of your fields, even under low-visibility conditions. Tracks are numbered and the worked areas are marked, allowing you to find the next track quickly and easily. With the mapping function, you can save positions where there are special occurrences. This, for example, can prevent collisions with obstacles and the resulting damage.



- Suited for almost all shapes of fields
- Visual and acoustic signals at field boundaries
- Worked areas are marked
- Saving and signalling of obstacles and markers
- Automatic detection of fields that have already been saved
- Optimum integration in the Vario controls
- Can be enabled via headland management Variotronic<sup>TI</sup>

### **Ideal at the headlands**

Before working a field, you can record and permanently save the boundaries. The system then signals when you have reached the turning point. You can also set the distance to the field boundary. If the tractor is within a previously recorded field boundary, the system automatically detects this and displays a list of all the A-B waylines that are available at this location.

### **Enabling via Variotronic<sup>TI</sup>**

Automatic steering can be enabled through the terminal on the multi-function armrest of the Variocentre (900 Vario) or the side console (700 Vario/800 Vario). Integration in headland management Variotronic<sup>TI</sup> allows you to take full advantage of Vario operating comfort. You can activate programmed procedures as well as Auto-Guide<sup>Pro</sup> with a push of a button on the joystick.

# Choice of accuracy levels

**Auto-Guide Standard VBS** is ideal for work such as stubble management, spreading compost, rolling, mowing or applying slurry.



**Auto-Guide Precision HP** is primarily for seed drilling and single grain sowing.



**Auto-Guide High Precision BS** offers the highest accuracy, guaranteed by a user-operated local base station, even in areas with poor reception.



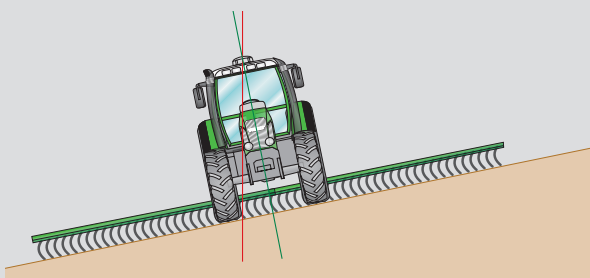
Simple transferability: The individual components, such as the antenna, receiver or DMU, are accommodated in a compact housing. This TopDock can be transferred from one vehicle to another within minutes. On the 900 Vario, it can be removed without even leaving the driver seat.



700 Vario / 800 Vario



900 Vario



The installed dynamic measuring unit (DMU) records tractor movements along six axes. It not only automatically corrects deviations on slopes, but also ensures exacter passes and bridges short signal interruptions as well.

**Auto-Guide<sup>Pro</sup>** is available in several accuracy levels. The system is modularly designed and therefore very flexible. You can switch between the different correction signals that are available for a particular system. If you require higher accuracy, you can switch to the next level at any time. No new components are required. There are satellite-based correction signal services as well as a user-operated RTK base station available.

**OmniSTAR correction signal service**  
Auto-Guide<sup>Pro</sup> uses a dual-frequency DGPS receiver, which, in addition to signals from GPS satellites, also receives correction signals. OmniSTAR is a worldwide satellite-based correction signal service, which is available through subscription. To receive the signals, no additional equipment is required on the outside of the tractor. OmniSTAR offers the accuracy levels VBS and HP.



- The right accuracy for every application
- Fast and precise tracking and fine steering corrections thanks to proportional steering behaviour
- The OmniSTAR HP signal has high long-term stability
- Automatic tilt correction (slope compensation)
- Increased accuracy through 6-axis DMU
- No subscription fees when using the RTK base station
- Several vehicles can use one base station

### **RTK base station**

The RTK base station provides correction signals without requiring a subscription. The station's compact design allows it to be set up quickly at the place of operation. The station attains its full accuracy within a short amount of time. That gives you constant high precision the whole day long. The use of the base station is recommended primarily for conditions where the OmniSTAR correction signal is difficult to receive (northern latitudes, wooded or hilly ter-

rain). The base station covers an area within a radius of five kilometres. This permits several vehicles to use the signals of just one RTK base station.



The RTK base station provides its own signal independent of reference signal subscriptions offered by commercial providers of correction signals. The clever design of the station makes it ideal as a mobile base station.

# Technical Specifications



## AUTO-GUIDE

	Auto-Guide Ready Kit	Auto-Guide Standard VBS	Auto-Guide Precision HP	Auto-Guide <sup>1)</sup> High Precision BS
<b>Components</b>				
Vehicle-side components	■	■	■	■
Auto-Guide <sup>pro</sup> system	□	■	■	■
Local base station	□	□	□	■
<b>Possible correction signals</b>				
OmniSTAR VBS	-	■	■	■
OmniSTAR HP	-	-	■	■
Local base station (RTK)	-	-	-	■
<b>Functions</b>				
Steering valves	proportional	proportional	proportional	proportional
Steering	-	automatic	automatic	automatic
Steering response	-	settable	settable	settable
Wayline offset	-	manual/automatic	manual/automatic	manual/automatic
Marking of worked swaths	-	manual/automatic	manual/automatic	manual/automatic
Signal at headlands	-	visual/acoustic	visual/acoustic	visual/acoustic
Recording of field boundaries	-	■	■	■
Marking of important points	-	■	■	■
Speed	-	0.4 - 25 km/h	0.4 - 25 km/h	0.4 - 25 km/h
No. of fields that can be saved	-	approx. 200	approx. 200	approx. 200
No. of implements that can be saved	-	approx. 200	approx. 200	approx. 200
Fendt proLine - straight paths	-	■	■	■
Fendt proContour - curved paths	-	■	■	■
Fendt proCircle - circular paths	-	■	■	■
Automatic slope compensation	-	6-axis DMU	6-axis DMU	6-axis DMU
<b>Accuracy<sup>2)</sup></b>				
Static accuracy	-	+/- 80 cm	+/- 10 cm	+/- 2 cm
Pass-to-pass accuracy	-	+/- 20 cm	+/- 5 cm	+/- 2 cm

1) Not available in all countries. Please contact your dealer for further information.

	Fendt 700 Vario	Fendt 800 Vario	Fendt 900 Vario
<b>Position</b>			
Auto-Guide Ready	□	□	□
Auto-Guide Standard (VBS)	□	□	□
AutoGuide Precision (HP)	□	□	□
Auto-Guide High Precision (BS)	□	□	□

■ = standard/ □ = optional/- = not avail.

### 2) Notes on accuracy specifications

The specified accuracies are statistical values. The attainable accuracy lies within this range up to 95 percent of the time. The static accuracy indicates how accurate the measured position of a stationary tractor is over a longer period of time (usually 24 hours). The dynamic accuracy specifies the repeatable pass-to-pass accuracy that is attainable within a 15-minute time frame.

These values are for the automatic steering system alone. The accuracy that can actually be attained in practice depends on various factors.

The Auto-Guide performance data is based on the Global Positioning System (GPS) of the US Department of Defence. AGCO is not responsible for its availability or for reduced accuracy caused by operational degradation, ionospheric or tropospheric conditions or satellite geometry.

OmniSTAR is a GPS augmentation service provided independently by OmniSTAR USA Inc. AGCO does not take responsibility for the performance of this service.

#### GPS signal

- + correction signal (e.g. type, accuracy, availability)
- + system and tractor factors (e.g. calibration, tyre pressure, front axle load)
- + implement factors (e.g. setting, horizontal draft, symmetry)
- + field conditions (e.g. type of soil, ground conditions, slope)

= actual accuracy of Auto-Guide<sup>pro</sup> in the field

#### Sales Agent:

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 provide you information on any changes that have



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