

Terrus CVT: Stunning new STEYR flagship tractor

Innovative, iconic, and customer-oriented: the Terrus range has it all / New flagship tractor series was specifically developed to meet European customers' demands / Plentiful power, compact dimensions and excellent power-to-weight ratio as some of the key features

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The efficient and productive agriculture in Europe is characterised by a continuous demand for higher horsepower tractors. An in-depth customer survey in the European farming community revealed, however, that even though there is a general demand for more horsepower, farmers specifically ask for more power in the segment of versatile tractors near 'CVT dimensions'. Closely listening to their customers' demands, to further strengthen the brand's position in the current key markets, and to continue on the successful path from a traditional Austrian brand to an international iconic brand, Steyr engineers developed the Terrus CVT, a completely new tractor range, with stunning new design, excellent performance and maximum versatility.

"European agriculture is a true high-level business: Equally innovation-oriented and environmentally conscious as they are, European farmers and contractors are demanding customers. That is why helping them to handle just any given task with maximum efficiency, performance and reliability is at the core of the new Terrus CVT range", says Andreas Klauser, Steyr President.

New Steyr flagship

Two models of the Steyr Terrus CVT will be available, both equipped with compact 6.7 litre NEF engines from FPT Industrial. These tractors offer 270 or 300hp at a rated speed of 2,100rpm and a maximum power of 313hp at 1,800rpm for the larger of the two models. "Featuring the Hi-eSCR only after-treatment solution for maximum combustion efficiency, the engines equally fulfil Stage IV emission regulations whilst maintaining frugal fuel consumption. The efficiency of the Terrus CVT has just been verified with a PowerMix test result of 249 g/kWh by the independent testing association DLG. The PowerMix test has been created to replicate typical customer usage in a repeatable and comparable way", emphasises Steyr Product Marketing Manager Dan Stuart.

New valve material and design of the engine head allow for higher combustion pressure. The major change, however, was made in the lower part of the engine block and oil sump. In this new and specific design, the sump serves as backbone of the tractor, thus taking stress off the engine block. Thanks to this 'structural sump', the typical weight of Terrus tractors amounts to 11,000kg, whilst the



maximum gross vehicle weight is 16,000kg. Diverse ballast and payload options for Terrus CVT customers are hence guaranteed.

Following the requirements and wishes taken from the customer survey, both models of the Terrus CVT range are able to effectively put their vast power to the ground whilst maintaining the agility of smaller models. "With their excellent power-to-weight ratio, these tractors in sum offer markedly higher efficiency, maximised uptime and better comfort levels for the operator, and thanks to their low total cost of ownership, the new Steyr flagship tractors offer the optimum solution for a broad range of tasks and demands. As the Terrus CVT range is a completely new tractor series, entirely developed and built in St. Valentin, our engineers indeed scrutinised and challenged every single detail, always going for maximum performance, reliability and efficiency at the same time", says Dan Stuart.

"When looking at the engine in more detail, it is the single eVGT turbocharger in particular that delivers the high torque required at low engine speeds. Responding faster than a twin turbo, this eVGT turbocharger makes the new Steyr tractor a true 'power pack'. With the Terrus CVT, owners and operators also enjoy the longest service intervals in this hp segment: Less time and money need to be spent on routine maintenance. Furthermore, massive 630 litres diesel and 96 litres AdBlue tanks add to efficient daily operations, whilst idle speed management reduces the engine speed from 850 rpm to 650 rpm, thus further reducing fuel consumption and time needed for returning to the farmyard for refuelling", explains Stuart.

New 4-range CVT and park lock

In order to reliably handle and transmit the high draft loads generated from over 300hp engines which are used in the Steyr Terrus CVT tractor range, engineers specifically adapted the continuously variable transmission. With the 30m/h to 40km/h ECO and 30m/h to 50km/h ECO ranges, two speed options are available. In reverse, a maximum of 27km/h is reached in both cases. The new front and rear axle design, a wheel base of 2,995mm, and 2.15 diameter tyres (e.g. 710/75R42) further contribute to the impressive traction. For increased safety, the Terrus CVT range is equipped with a new park lock that is spring applied and released hydraulically.

The Terrus CVT features the front axle from smaller tractor models: with its saddle style suspension and two hydraulic cylinders with 8 degrees of oscillation and 110mm of vertical travel, this ensures perfect comfort and stability on the road. "Our engineers have also optimised the front axle to front linkage distance, the shorter distance in the Terrus allowing for more compact overall dimensions and an excellent vehicle weight distribution. In addition, the minimised tyre envelope and specially designed fuel tanks provide a very tight turning angle", emphasises Stuart.

For maximum road safety and safe braking in tricky or emergency situations, Terrus CVT models can be supplied with ABS. In addition to safe braking, the optional advanced ABS version will assist manoeuvring in the field. When the system is activated and the operator is turning, the inner wheel brake is applied automatically to assist; this is controlled electronically, allows for tighter turns and prevents the wheel from locking up. Brake Deselect is programmable via the Easy Tronic II Headland Management system.

The new Steyr Terrus CVT models can be equipped with a tyre pressure monitoring system that allows operators to monitor up to 16 tyres on the tractor and on implements. Fully integrated in the S-Tech 700 monitor, the system allows operators to set parameters and, if these are exceeded, receive a warning on the display. In case of tyre problems, the onboard airline connection at the rear of the machine allows operators to re-inflate the tyre and return to the farm.

Front and rear PTO options leave no wish unfulfilled!

With their standard 4-speed rear PTO, the new Steyr flagship tractors come with an Electronic Speed Shift and engine speeds as low as 1,930rpm for 540 PTO, 1,598rpm for 540 economy (ECO) PTO, 1,853rpm for 1,000 PTO and 1,583rpm for 1,000 ECO PTO.

A two-speed front PTO is available for the Terrus CVT range as an option and comes with the same design concept as the rear PTO pack. "The two speeds of the front PTO are 'in-cab shiftable'; with a turn of a knob either a 1,000 or 1,000 ECO PTO can be selected. In addition to the changeable 6 spline stub shaft, also a 21 spline shaft is available as an option, and a clutch on the input shaft reduces parasitic power losses", explains Stuart. "With rear and front linkage, its high horsepower and relatively low base weight, the Terrus CVT is the perfect answer for farmers and contractors in need of performing multiple functions including tasks with heavy front and rear implements," he adds.

Hydraulic performance for maximum efficiency

The low loss hydraulic system and circuits of the Steyr Terrus CVT are designed to provide maximum power and efficiency. The standard version features a closed circuit load sensing (CCLS) hydraulic pump with 165 litres/min at 2,100rpm, whilst a high flow CCLS pump with 220 litres/min at 2,100rpm is available as an option. The potential to achieve the required flow at a lower engine speed is provided by high pump flows in both cases.

With standard quick attach CAT III hook ends on the rear linkage, a lifting power of 10,299kg is available through the range, and a maximum of 11,058kg at ball end. CAT IVN hook ends, a hydraulic top link and a hydraulic top link / drop arm are also available as options. "The new front

linkage delivers a maximum lift of up to 5,821kg at ball end. Working with equally big and productive implements is what the system was designed for – and delivers impressively”, says Stuart.

Spacious cab for performance, precision, and comfort

Featuring ISOBUS Class II as standard and ISOBUS Class III factory fit as an option, Terrus CVT tractors come ready for maximum precision and efficiency. “The ISOBUS Class III option allows compatible implements to control tractor functions such as steering, forward speed, hydraulic lift, PTO and rear remotes. During tasks such as baling for example, having implements ‘command the tractor’ can improve the efficiency of the operation with a more constant flow of material through the baler. Taking such a task from the operator helps to achieve best possible baling results whilst reducing operator fatigue”, highlights Dan Stuart. In conjunction with the Steyr S-Tech 700 monitor, Easy Tronic II also offers the advantage of making headland turns easier, thus further reducing operator fatigue.

For maximum comfort and an optimum working environment, the cabs of Terrus CVT tractors come with cab suspension as standard. In addition, a premium range of seat options is available. This includes the dual motion operator seat with swivel headrest, a forwards / backwards adjustable lower seat cushion, an electrically adjustable armrest and 15° seat swivel to aid in rear visibility, as well as seat heating and ventilation in both fabric and leather finishes.

For high accuracy automated steering, the Terrus CVT range is available with RTK, new Autoguidance with Reactive Steering and telematics ready, and with the new Remote File Transfer Function. Without the need to use a USB stick for data transfer, this new wireless function saves time and allows the exchange of data via 3G between the farm office, external farm computers, and the machines via S-Tech software ‘on the go’.

Steyr Terrus CVT: custom-built high performer

As new Steyr flagship model, the Terrus indeed broadens the iconic brand’s product range which has never been stronger, more modern and more customer-oriented than today. Whether it is the Kompakt S or the brand new Terrus CVT – Steyr tractors stand ready to serve, offering top performance, top efficiency and top reliability, all this backed by dedicated dealers, thus providing the optimum solution for customers in agriculture, forestry and municipal services alike.

“Based on the thorough evaluation of an in-depth customer clinic that involved owners of various brands in the 180 to 300hp segment, literally all kinds of suggestions, wishes and demands were considered and implemented in the development, design and manufacturing of the new Terrus CVT range. We are aware of the fact that businesses need to maximise their efficiency in order to secure

their profitability. And, equally recognising that European farming and contracting businesses focus on manoeuvrability, compact dimensions, as well as versatility and performance, we are convinced that the new Steyr flagship will soon be appreciated as what the Terrus CVT is: a true and custom-build high performer”, concludes Andreas Klauser.

The Steyr Terrus at a glance:

- # Two models with 6.7 litre Stage IV FPT engine and 270 or 300hp at a rated speed of 2100 rpm
- # Hi-eSCR only exhaust after-treatment
- # Maximum gross vehicle weight of 16,000kg
- # eVGT single turbocharger
- # Longest service interval in the power sector
- # 630 litres diesel tank and 96 litres AdBlue tank
- # 4-range CVT with either 30m/h to 40km/h ECO or 30m/h to 50km/h ECO
- # ABS/ABS Advanced and automatic park lock
- # 4-speed rear PTO, 2-speed front PTO
- # 165litres/min CCLS hydraulic pump as standard, 220litres/min available as option
- # Rear linkage with 11,058kg maximum lifting power at ball ends
- # Front linkage with 5,821kg maximum lifting power at ball ends
- # ISOBUS Class II/III and RTK from the factory
- # Headland Management Control (Easy Tronic II) and Remote File Transfer Function
- # Maximum operator comfort and ease of operation

More information about STEYR tractors is available on the internet at www.steyr-traktoren.com.

STEYR has been synonymous with leading technology and high-quality machinery for more than 60 years. Its premium Austrian-built tractor range focuses on outstanding comfort and precision operation, using proven technical innovations to maximise productivity for operators in the agricultural, forestry and municipal sectors. STEYR customers are backed by first-class support from STEYR's professional and highly experienced network of dealers. More information on STEYR products and services can be found online at www.steyr-traktoren.com.

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