

The world's largest cultivator – NEXAT completes its soil tillage portfolio

Rieste, Germany – A new milestone in modern agriculture. In collaboration with Väderstad, the Cultus HD has been adapted to fit the NEXAT carrier vehicle, allowing it to work the soil between NEXAT system tracks with an impressive 14-meter working width. The result? The world's largest cultivator.

The holistic NEXAT crop production system employs 14-meter-wide tramlines that are established once and then used year-round for all field operations. This approach prevents up to 95% of the soil from being driven over, promoting soil life regeneration and creating optimal growing conditions for crops.

In recent years, NEXAT has conducted soil analyses worldwide, gaining valuable insights into the conditions of conventionally farmed land. The findings often reveal significant soil compaction. This issue stems partly from the uncontrolled driving over fields with various machines and tractors of differing working widths and partly from the formation of the so-called plow pan, created by cutting and inverting the soil through traditional tillage methods. Such soil compaction leads to erosion, poor water infiltration, limited oxygen supply, and reduced soil vitality, ultimately impairing the soil's natural potential and negatively impacting yields.

The new Cultus HD offers versatile applications in widespan controlled traffic farming, with working depths ranging from 5 to 30 cm. Its well-established array of features ensures a tailored solution for any planting condition. From shallow cutting and mixing to deep loosening of compacted layers, the Cultus HD can handle it all. With a tine spacing of 25 cm, it evenly loosens the soil within the NEXAT planting track but can also be converted to a strip-till cultivator with a 50 cm row spacing by folding up one row of tines. Thanks to its automatic stone release system with a release force of 680 kg, the Cultus HD is built to tackle even the toughest conditions.

The integration of the new Cultus HD into the NEXAT system marks a significant expansion of its soil cultivation portfolio. No additional machinery is needed to drive over the fields—not even for circular farming. This maximizes the full potential of the NEXAT system.

“Our mission is to develop a system that not only makes work easier but sustainably revolutionizes agriculture. The premiere in Romania was a complete success, achieving an area performance of up to 10 hectares per hour at a working depth of 25 cm. Next year, additional Cultus HD units will be produced and delivered to customers,” the company explains.

With the Väderstad Cultus HD, NEXAT expands its product portfolio, offering a comprehensive solution that supports an ever-growing range of cultivation methods with its wide selection of implements.

See the new Cultus HD in its first operation in Romania here:

<https://youtu.be/6GbtodQelSg>

For deeper insights, check out this video from Agroinform:

<https://www.youtube.com/watch?v=J3Q0EagV8o0>

NEXAT was founded in 2017 by Felix and Klemens Kalverkamp and is based in Rieste, Germany. With now more than 130 employees, NEXAT is one of the most innovative agricultural machinery manufacturers worldwide. The crop production system developed by NEXAT is already operating on three continents due to global demand. The NEXAT system enables maximum yield potential to be developed with maximum conservation of soil and resources. In doing so, the young company draws on the more than 50 years of expertise of the Kalverkamp founding family, which is expressed in numerous product developments and awards in agricultural technology. The gold medal for the NEXAT system in 2022 (Agritechnica Innovation Award) and this year's Agrifuture Concept Award (Agritechnica, DLG, 2023) reflect NEXAT's innovative strength. Information & contact persons for the NEXAT system can be found on the website www.nexat.de/en/



Figure 1: NEXAT with the Väderstad Cultus HD in initial operation in Romania



Figure 2: NEXAT with the Väderstad Cultus HD in initial operation in Romania