

## PRESS RELEASE



September 2025



### **VarioSmart: Precision meets efficiency – The new benchmark for boundary spreading systems**

With VarioSmart – a spreading disc drive system with speed control – RAUCH Landmaschinenfabrik GmbH is revolutionising precision technology in agriculture. The VarioSmart system from RAUCH is the world's first speed control system for mechanically driven fertiliser spreaders. It combines the precision of hydraulic technology with the efficiency of a purely mechanical drive. It enables stepless, remote-controlled speed control of the spreading discs directly from the tractor cab – without any additional hydraulic connection.

RAUCH will be awarded the silver medal of the Innovation Award at Agritechnica for this groundbreaking development. This prestigious award underscores the company's innovative strength and technological leadership.

Environmental regulations require sharp-edged fertiliser application, precisely at the field boundary or edge. Conventional systems such as TELIMAT, which are based on deflection by means of a deflector plate, reach their physical limits here. RAUCH meets this challenge with independent speed control for mechanically operated spreaders, the new VarioSmart system for the AXIS series with conventional PTO drive.

#### **Intelligent technology meets robust construction**

At the heart of the VarioSmart is a hydraulically controlled multi-disc clutch system, which uses an integrated crescent pump and a highly dynamic proportional pressure control valve to regulate the spreader disc speed independently and continuously between 300 and 1100 rpm. Control is carried out directly from the tractor cab via ISOBUS terminals – including feedback and control stability even during dynamic load peaks in the drive system. A specially encapsulated 9-litre oil tank and an axial fan ensure thermal stability and maintenance-free operation.

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### **Border spreading with maximum precision – without a hydraulic connection to the tractor**

Thanks to torque-controlled slip control, VarioSmart produces a steep-sided, sharply defined spread pattern – comparable to hydraulic systems, but with up to 30% higher drive efficiency. This means lower diesel consumption, fewer CO<sub>2</sub> emissions and no additional load on the tractor's hydraulic system. In combination with GPS-controlled SectionControl, the spreading width is also automatically adjusted at the headland – ideal for reducing overlapping in complex field shapes.

### **Customer benefits: Efficiency, environmental awareness and cost-effectiveness in harmony**

- **Fertiliser savings of up to 10%**, especially through more precise application at field boundaries
- **Energy savings of up to 30%** compared to hydraulic spreader disc drives
- **CO<sub>2</sub> reduction of up to 8,200 kg per machine** over the machine's service life
- **Fast response times** when changing speed (<1.2 seconds), minimising incorrect dosing
- **Long-term cost advantage** of several thousand euros due to lower diesel consumption

### **RAUCH: Innovation leader with responsibility**

The VarioSmart system combines the advantages of hydraulic control with the efficiency of mechanical drives – a development that not only protects the environment and conserves resources, but also benefits users economically. With this innovation, RAUCH is setting new standards in mineral fertilisation and underlining its innovative role among agricultural machinery manufacturers.

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A family company, RAUCH was founded in 1921 and today is an internationally active manufacturer of agricultural and municipal services technology. The headquarters of the company are located in Rheinmünster near Baden-Baden. RAUCH develops and builds high-quality machines for fertiliser spreading and spreading technology for municipal winter services. In addition, RAUCH is an original equipment manufacturer of seed drill technology components. In the 2024/2025 financial year, a turnover of 92 million euros was achieved with 426 employees. Around 78 percent of the products manufactured are exported.

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