

PRESS RELEASE

September 2025

FlexBin from RAUCH – Intelligent fertiliser mixing for maximum precision

With the FlexBin system, RAUCH is setting a clear example of technological innovation for high-precision application of two different types of fertiliser in a single pass without stopping to change equipment. At the heart of this innovation is the patented Powerpack with minimal residual quantity and high control speed, which guarantees uniform transversal distribution even with large working widths. With its intelligent control system and automatic adjustment to fertiliser properties, RAUCH is significantly advancing the development of modern agriculture towards greater efficiency, sustainability and user-friendliness.

FlexBin is a multi-bin system for fertiliser spreaders that, for the first time, enables the flexible and precise application of two different types of fertiliser during ongoing operation. Conventional technology often reaches its limits when used over large areas and with fertiliser mixtures, especially at working widths of over 30 metres. This is where FlexBin comes in, taking application quality to a whole new level. At the heart of the innovation is the patented Powerpack system, which operates with minimal residual quantities and allows highly dynamic, defined fertiliser distribution within just 1 to 5 seconds. Two separately hydraulically controlled conveyor belts transport the fertilisers independently of each other and bring them together in an intermediate container with a residual volume of only 10 litres, where they are mixed and then precisely conveyed to the spreading discs.

Thanks to this architecture, the mixing ratio of the two types of fertiliser can be controlled precisely and site-specifically in real time based on digital application maps in ISOXML or Shape format. The intelligent algorithm in the system automatically takes into account the physical properties of the fertilisers used, such as flight distance or sliding properties, and continuously adjusts the machine settings such as drop point, speed and switch-on times. This prevents typical spreading errors and allows for unprecedented transversal distribution, even under complex conditions and with varying fertiliser qualities.

PRESS RELEASE

September 2025

In addition to increased accuracy, FlexBin offers concrete economic advantages for farmers. By avoiding over- or under-application and unnecessary passovers, up to 5% of fertiliser can be saved through more precise distribution alone, without any loss of yield. This saving means a direct reduction in costs and at the same time conserves limited resources. Process efficiency in the field also increases significantly. Applying two types of fertiliser in a single working pass saves time, labour and machine hours. Every hectare not driven means less fuel consumption and less wear and tear on equipment and tractors. This also benefits the environment. Precise nutrient application reduces nutrient losses that could otherwise end up in waterways or the atmosphere. Overdosing and the associated potential nitrogen surpluses or nitrous oxide emissions are avoided. The ecological footprint of fertilisation is minimised because every granule applied ends up where the plant needs it and is not spreaded unused. Such precise fertilisation also improves the fertilisation balance and helps farmers to comply more easily with stricter environmental regulations.

With FlexBin, RAUCH once again proves its technological leadership in agricultural engineering. The combination of precise mechanics, intelligent sensor technology and digital control shows how sustainable agriculture works today. FlexBin is not a vision, but the new benchmark for efficient, sustainable and intelligent fertiliser application. Farmers and contractors are given a tool that combines maximum precision with practical user-friendliness and pays for itself immediately in the form of better yields, lower costs and more environmentally friendly farming.

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.

Your contact:

Kristina Ernst – Head of Marketing

Phone: 0049 7229 8580 - 2243

E-mail: kernst@rauch.de