

PRESS RELEASE

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RAUCHApp with new AI function for the calibration chart One photo is all it takes: With AI RAUCH makes fertiliser evaluation easier than ever before

Precision, sustainability and ease of use are among the key requirements in modern agriculture. With the new AI-based application of the RAUCHApp, innovation leader RAUCH is now introducing a new feature that significantly simplifies spreading tray tests while increasing efficiency.

From 16 photos to a single click

The proven RAUCHApp has been updated with the integration of artificial intelligence, which fundamentally changes the previous process. Whereas farmers previously had to take up to 16 photos of mats or trays, now a single image of the measuring funnel is sufficient.

The app analyses this image using AI-supported image processing, evaluates the transverse distribution of the fertiliser and automatically calculates the optimum machine setting. This includes the feed point and disc speed. The recommendation is then transmitted directly to the fertiliser spreader via a Wi-Fi module.

The result: a process that previously took over 15 minutes can now be completed in less than 7 minutes. This evaluation provides greater accuracy and significantly reduces the amount of work involved.

XCheck spreading test trays are the basis for precise results

At the heart of this innovation are the newly developed XCheck spreading trays, which take the principle of precision to a new level. The trays are based on origami folding technology and can be transported in a space-saving manner. The 10 collection trays fit into a compact carrying bag and can be unfolded in the field with a single movement. Unlike conventional testing systems made of hard plastic or mats, the flexible XCheck trays reliably collect over 95% of the spread fertiliser granules. This means that the actual transverse distribution can be measured more accurately. In practice, this means fewer sources of error, more accurate settings and up to three per cent savings in fertiliser – in Germany, this corresponds to 60,000 tonnes of mineral fertiliser per year. Transport has also been revolutionarily simplified. With a total weight of only 9.6 kilograms and around 80% less volume compared to previous systems, a single person can easily bring the entire test set into the field and use it.

The advantages of the new app are obvious. First and foremost is the radical simplification. A single photo replaces numerous individual steps and at the same time ensures error-free, objective evaluation. This results in significant time savings, which are invaluable, especially during labour-intensive phases. In addition, the app makes an

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important contribution to conserving resources. More precise settings can reduce fertiliser consumption by up to three per cent, which corresponds to around 60,000 tonnes of mineral fertiliser per year in Germany. Climate protection also benefits. Less fertiliser use means savings of up to 144,000 tonnes of CO₂ per year, comparable to the emissions of around 72,000 vehicles. Finally, the solution impresses with its practicality. Thanks to its intuitive operation, even less experienced users can achieve precise results immediately and thus realise the full benefits of the technology.

Voices from development

‘With the new AI application, we are taking our app to a whole new level,’ explains Volker Stöcklin, Managing Director of RAUCH Landmaschinenfabrik GmbH. ‘It offers farmers an unprecedented combination of simplicity, efficiency and sustainability. This sends a clear signal about the digital future of mineral fertilisation.’

The RAUCH app with AI function is more than just a software update; it is a practical tool that manages the balancing act between economic and ecological requirements. Its ease of use significantly increases the acceptance of lateral distribution tests in practice, which ultimately leads to higher yields and resource-saving agriculture.

With this further development, RAUCH is underlining its position as an innovation driver in the field of smart farming: technology that reduces farmers' working hours, avoids errors and at the same time protects the environment and preserves resources.

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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