

PRESS RELEASE

September 2023

RAUCH enables lime spreading with control EMC

The EMC technology from RAUCH Landmaschinenfabrik GmbH for the AXENT large area spreader can now also be used in lime spreading. With the electronic mass flow control EMC, RAUCH offers a groundbreaking concept for the very precise and efficient spreading of fertiliser - and this for more than 20 years. In 1999 this technology was awarded a DLG gold medal (German Agricultural Association).

EMC continuously measures the torque on the spreading disc during operation, which changes proportionally to the mass flow and provides feedback to the control electronics. As a result, the metering sliders are electronically controlled, which ensures precise spreading of fertilisers with a wide range of granular properties.

EMC continuously measures the torque of the spreading discs during operation and, by electronically adjusting the metering sliders, enables precise spreading of fertilisers with a wide range of granular properties. This EMC control, which has been tried and tested over many years, is now also available for the RAUCH universal spreading unit of the AXENT and thus also for lime and organic fertiliser spreading.

Conventional lime spreaders do not work with very precise metering and usually have no control. As a result, accuracy in spreading is only conditionally guaranteed with varying densities, moisture, grain sizes and lumps with lime or inhomogeneous organic fertilisers. The correct supply of lime, adapted to the soil type, is becoming increasingly important in arable farms. Correct soil pH significantly increases nutrient efficiency and drought resistance. Liming to the exact area is the optimal method. However, if liming is carried out via GPS, the application rate can vary greatly from 0 kg/ha to 3,000 kg/ha. Unregulated application does not meet the requirements for accuracy at all.

With the new lime-EMC control RAUCH refines the accuracy of the application rate. Lime is usually stored at the edge of the field and is exposed to severe weather conditions. During the loading process, impurities often mean that the homogeneity in the spreading material is not always given and the dosage and application accuracy suffer as a result.

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The Universal Power Pack is equipped with three pressure sensors, which are used to determine the torque. Metering is done via a combination of pre-metering slide and belt speed. Kalk-EMC first performs an idle measurement when the machine is started. Each time the start/stop button is pressed, this is repeated in the background. The result is a permanent adjustment of the spreading quantity to the target value and thus a precise conversion of the correct application rate according to the application maps.

RAUCH also takes sustainability into account here. The goal and wish of farmers and contractors is a precise spreading of lime, but also of organic fertilisers such as pellets or dry compost and fermentation residues in the most varied quantities and qualities of spreading materials. Using application maps only as much spreading material as necessary is dosed in the field in the individual zone. These quantities are also applied precisely by Kalk-EMC and can be documented exactly.

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 2022 financial year, a turnover of 407 million euros was achieved with 407 employees. Around 73 percent of the products manufactured are exported.

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