Press Release

Alpen, September 2023

Camera for monitoring cultivator share wear

In December last year, LEMKEN and Track32 put their already successful cooperation on a new footing: The agricultural machinery manufacturer invested in the Dutch AI software producer to work intensively on future technologies. With “iQblue tool monitoring”, a system for detecting tool breakage and wear and analysing the wear of cultivator shares, the first jointly developed product is now ready for action. The camera system monitors the shares and automatically records their current condition while working at the headland. It therefore provides farmers with a valuable decision-making aid for changing and buying spare parts.

Additionally, drivers have one less task to focus on. iQblue tool monitoring is the first system on the market that ensures objective assessment even in difficult conditions. The system comprises a camera, which takes a large number of individual images of the tine section on a three-metre-wide cultivator while working at the headland. A software algorithm evaluates the condition of the shares, which is then displayed on the ISOBUS terminal via a traffic light system. Extensively worn shares are shown in red, while damaged shares are marked in yellow and intact shares in green. Based on this information, the system calculates not only future wear but also the point in time at which it makes sense to replace the shares. If necessary, users can retrieve the current tool status at any time.

iQblue tool monitoring conveniently supports farmers in achieving optimal work quality by enabling them to buy and replace wear parts at the ideal time. The system also contributes to occupational safety by detecting potential damage at an early stage.

LEMKEN iQblue tool monitoring will be awarded a silver medal at Agritechnica 2023.

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About LEMKEN: LEMKEN enjoys a worldwide reputation as a visionary, sustainably operating company that makes an important contribution to profitable agriculture. A

medium-sized German family company, LEMKEN has applied its expertise and passion for progress for 243 years, delivering solutions for the challenges confronting agriculture today and tomorrow. The company's product range includes tillage implements, seed drills, hoeing machines, fertiliser spreaders and smart solutions for agricultural data management.

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Image 1: Terminal display of the coulter condition in the traffic light system