PRESS RELEASE

KARL

The autonomous concept

KARL goes further in autonomy with new functions on the PROLANDER and CULTIMER soil cultivation tools

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Communication between the tool and KARL
With KARL, the tool becomes the real driver. The tool linked to KARL transmits the information necessary for proper work performance and KARL adjusts its parameters to carry out work adapted to different soil and vegetation, and implements corrective actions if a malfunction is detected on the tool.

Detection of chassis clogging
Using ultrasonic sensors, the tool detects machine blockages by measuring variations in distance and soil flow. The KARL system then automatically intervenes to resolve blockage problems by adjusting the working depth and performing specific manoeuvres, thus ensuring optimal and continuous performance.

Detection of roller blockage
Rotation sensors on the roller detect any slippage and adjust KARL settings to prevent clogging.

Tine retraction on the CULTIMER
The CULTIMER is equipped with sensors that detect tine retraction. These sensors continuously monitor the position of the tines as well as the frequency of their retraction. This data allows the system to adjust the working parameters according to the hardness of the soil or the presence of stones. By analysing the recurrence of retractions, KARL automatically adapts its operation to maintain optimal efficiency, whatever the conditions.

Detection of tine breakage on the PROLANDER
Each PROLANDER tine is equipped with a continuously monitored Bluetooth tag. This device allows immediate detection of tine breakage, prompt alerts to the user and allows work to be interrupted to avoid poor work quality.

October 2025