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Automated Mowing Solution on AS 940 Sherpa 4WD RC from AS-Motor

Especially difficult terrain demands great operational skills while driving a remote controlled machine, as the operator has to stay close to the machine and often drive slow to cover the whole area. By turning remote controlled machinery into a semi-autonomous robot, the new and highly innovative robotics solution Safe Automated Mowing (SAM) enhances operator safety and ensures a higher efficiency.

As a pioneer of innovative solutions, AS-Motor is constantly working on the consistent further development of its devices. The SAM solution provides an insight into the future of AS-Motor mowing technology and was first presented to the public at the trade fair Agritechnica 2019. SAM is the result of a fruitful, international collaboration between the two German companies AS-Motor and NBB Controls + Components and Conpleks Robotech from Denmark. The idea of adding a unique robot solution to remote controls arose at Conpleks, and the idea focusing on safety and productivity was introduced at NBB. Shortly after AS-Motor completed the trio as lead customer, and Conpleks began developing the robot software to be tested on the AS-Motor Sherpa slope mower.

- We build our machines to last, and therefore we have to take the lead when it comes to new technology and implementing new solutions. With this in mind the decision to participate in the SAM project was straightforward. A strategy that paid off, as we now proudly can present an incomparable robot solution for our machinery, says Eberhard Lange, CEO at AS-Motor.

Operation made simple

The SAM solution offers incomparable performance through a number of unique controller features embedded in an intuitive setup, as daily operation only involves the existing Remote Control plus the three distinct modes; manual, learning and assisted repeat.

Learning mode initiates path copying and records a manually driven line of any shape. Having completed the line, the operator can switch to the semi-autonomous assisted repeat mode and thereby repeat the line in parallel over and over again with a well-defined overlap. Headland turning takes place automatically at a defined point or can be triggered manually. In contrast to manual mode the operator will not need to follow the machine closely around, but only stay in range of the safety stop.

(Intro text & continuous text: approx. 2,367 characters, including spaces)

Press release



YouTube channel:

<https://www.youtube.com/channel/UCLqXsENxtcHxyEQ4zUO147g>

About AS-Motor Germany GmbH & Co. KG:

Headquartered in Bühlertann, Germany, AS-Motor Germany GmbH & Co. KG has developed and manufactured special motorised devices for garden and landscape care since 1959. AS-Motor devices are engineered for extreme conditions such as high growth and inclines exceeding 35 degrees. The family company has more than 130 employees and manufactures the majority of its components itself. Additional information is provided at www.as-motor.com.

Photographic material:



Photo 1

Photo credits: Kompleks Robotech ApS



Photo 2

We would be happy to answer any questions you may have. If you can use this information for your reporting, we would be pleased to receive a reference and/or a specimen copy. If you desire an exclusive professional article concerning this topic, or a specific aspect of this topic, please contact us.

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