



LINAK LINEAR ACTUATORS - IN NEW HOLLAND COMBINE HARVESTER

New Holland uses electric actuators in **combine harvesters**. Alongside ease of integration, there are in particular the multiple options for control that favour an electric actuator.

Adjusting, positioning, moving - electric actuators perform a range of tasks in a combine harvester. And, this will certainly increase in the future. Michaël Carpentier, Product Development Manager at New Holland in Zedelgem, Belgium, is convinced of this fact.

He and his team investigate the best ways to make a combine harvester even more efficient, environmentally sound and comfortable for the operator. The use of electric actuators is important in this regard.

Precise setting of the machinery is especially important for achieving the best possible yields, and precise positioning plays a key role here. **LINAK electric actuators LA36** can provide precise positioning. This task is performed considerably better than hydraulic systems in which feedback and positioning require considerable technical complexity.

Since **feedback on position** can be provided as either an analogue or a digital signal, integration into the bus controls can be performed without difficulty.

A major application for an electric actuator in a combine harvester involves, for example, a straw distribution system. On request, New Holland combines offer the Opti-Spread straw spreader, which is attached behind the straw chopper. The farmer is able to control the width and direction of straw ejection. Two powerful spreader discs are set with the aid of LINAK actuators LA36.

'We use electric actuators very frequently because, in contrast to hydraulic systems, there is no risk of leakage,' notes Michaël Carpentier, CNH.

And, LINAK actuators LA36 meet the demands on robustness and stroke strength. Its robust aluminium housing and high protection rating (IP66 dynamic, IP69K static) enables it to carry out a wide range of tasks in a large number of agricultural applications.

Robustness is not merely a question of protection against external factors, such as dirt, dust and water.

Operational reliability is key in the event of impact and vibration. For example, the LA36 adjusts the sieve setting for harvesting on a hillside. Depending on the slope, the actuator induces a side impact of sieves, so that threshing can always take place on even loaded sieves.

'This actuator is constantly exposed to vibration,' states Michaël Carpentier. 'It has to continue to operate safely and problem-free despite this vibration.'



LINAK expends a great deal of time and effort during development on [testing actuators](#) in a variety of operational environments. They must withstand cold, heat, wet chemicals and knocks. Only after passing the tests are they allowed to go into production and finally to the customer.

Depending on the model, up to 13 actuators may be fitted to a combine harvester.

Contact [LINAK TECHLINE](#) for specifications and even more actuator solutions for combine harvesters and other farming equipment.