

## **Rebuilt Raba-Steiger tractor combats Europe's flooded fields and reduces fuel consumption by 25 to 30 per cent**

*Hungarian-modified Huntractor HT300 is equipped with an Allison 4500 fully automatic transmission for efficient, reliable performance.*

**Szabadegyháza, Hungary** – A Raba-Steiger agricultural tractor has been modified by Hungarian specialist, Huntractor Ltd, in a rebuild that touched almost all major vehicle components. This included the replacement of the manual transmission with an Allison 4500 model fully automatic transmission.

Due to high levels of precipitation in South and Central Europe in 2014, agricultural machines across the continent were stuck in the mud. But with its Allison fully automatic transmission, the Huntractor HT300 did not experience the same downtime. In fact, it was often sent to retrieve stranded vehicles, which it did without becoming mired down itself.

Towing cultivating discs through the soil is a very challenging process depending on the quality of the land. The Huntractor HT300 was designed to shift smoothly during loaded operation in order to be most effective. Where the manual transmission left parts of fields unprocessed due to gear hesitation and jerky shifting, Allison's Continuous Power Technology™ assures uninterrupted power to the drive wheels, improving reliability on water-logged soil and any other difficult surfaces. The Allison, a perfect match with the Cummins engine, was easily integrated into the vehicle allowing for a robust drivetrain solution.

Huntractor Ltd's Director, Istvan Ratkai, was very satisfied with the machine. According to Ratkai, with the Allison transmission transferring full power to the wheels, operation was smooth and continuous, and the tractor could achieve maximum performance. "The new driveline met our operational expectations, with the tractor's cultivating discs working continuously at maximum depth without gaps and without affecting the vehicle's average 11 kph to 13 kph speed," he said.

Compared to the original driveline, the Allison-equipped Huntractor HT300 achieved a 25 to 30 per cent reduction in fuel consumption. The HT300 was tasked with deep-loosening. Dragging loosening-plows through flooded land is the same as operating with a heavy load, yet the tractor launched smoothly and performed without any jerks to produce a uniformly tilled field.

Allison patented torque converter technology protects the driveline and the CAN controller moderates engine torque based on other system data and operating conditions. This ensures the original vehicle parts are not overworked – crucial to keeping maintenance costs low and extending the vehicle's life.

The Huntractor HT300 was first introduced in Hungary in September 2014 at the Babolna Agricultural Expo.

## About Allison Transmission

Allison Transmission (NYSE: ALSN) is the world's largest manufacturer of fully automatic transmissions for medium- and heavy-duty commercial vehicles and is a leader in hybrid-propulsion systems for city buses. Allison transmissions are used in a variety of applications including refuse, construction, fire, distribution, bus, motorhomes, defense and energy. Founded in 1915, the company is headquartered in Indianapolis, Indiana, USA and employs approximately 2,700 people worldwide. With a market presence in more than 80 countries, Allison has regional headquarters in the Netherlands, China and Brazil with manufacturing facilities in the U.S., Hungary and India. Allison also has approximately 1,400 independent distributor and dealer locations worldwide. For more information, visit [allisontransmission.com](http://allisontransmission.com).

## Huntractor Ltd.

The company has been established in 2013 with the participation of more Hungarian agricultural companies with the project target to rebuild those Raba-Steiger type tractors originally made in the '70s. Still many of those vehicles are used in Hungary, needing full refurbishment, but they can be renewed by installing the latest technology and thus matching up-to-date technical expectations.

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## Photography



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"The new driveline met our operational expectations, with the tractor's cultivating discs working continuously at maximum depth without gaps and without affecting the vehicle's average 11 kph to 13 kph speed," István Rátkai, director of Huntractor Ltd.

 <p>© Allison Transmission</p>	<p>Allison patented torque converter technology protects the driveline and the CAN controller moderates engine torque based on other system data and operating conditions. This ensures, that the original vehicle parts are not overworked – crucial to keeping maintenance costs low and extending the vehicle's life.</p>
 <p>© Allison Transmission</p>	<p>The Huntractor HT300 was introduced to national specialists at the Babolna Agricultural Expo last September.</p>
 <p>Huntractor HT300 Mélylazítózik © Allison Transmission</p>	<p>Video: YouTube <a href="https://www.youtube.com/watch?v=UDdpWiWg9SI">https://www.youtube.com/watch?v=UDdpWiWg9SI</a></p> <p>Huntractor HT300 works the land. Deep loosening was not a problem, with the Allison fully automatic transmission assuring continuous power.</p>
 <p>Huntractor HT300</p>	<p>Video: You Tube <a href="https://www.youtube.com/watch?v=ZYFZ7MVdRW/w">https://www.youtube.com/watch?v=ZYFZ7MVdRW/w</a> <a href="https://www.youtube.com/watch?v=OdMI9H34L9A">https://www.youtube.com/watch?v=OdMI9H34L9A</a></p> <p>Huntractor HT300 pulls sunken agricultural machines out of previously flooded fields.</p>



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Allison 4500 fully automatic transmission