News Release

Allison transmissions: outstanding in any field, even those flooded

Locals rebuild Raba-Steiger tractors with Allison fully automatic transmissions for efficient, reliable performance even during heavy flooding

Szabadegyháza, Hungary – Last fall, the original Raba-Steiger agricultural tractor rebuilt by Huntractor Ltd in September 2014 went to work. The rebuild touched almost all major vehicle components, including replacement of the manual transmission with an Allison 4500 model fully automatic transmission. This newly named Huntractor HT300 won high marks for performance and efficiency, despite operating in difficult, flooded conditions.

The Huntractor HT300 had to shift smoothly during loaded operation in order to be 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.

Towing cultivating discs through the soil is a very challenging process depending on the quality of the land. Compared to the original driveline, the Allison-equipped Huntractor HT300 achieved a 25 to 30 percent 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.

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.

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 success of the rebuild drew attention in January, when Huntractor HT300 was recognized by Hungarian agricultural specialists with the Local Product Development Award at the Agromash Expo and Agricultural Machine Show in Hungary.

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.

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.

 © Allison Transmission	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.
 © Allison Transmission	The Huntractor HT300 was introduced to national specialists at the Babolna Agricultural Expo last September.
 Huntractor HT300 Mélylazítózik © Allison Transmission	Video: YouTube https://www.youtube.com/watch?v=UDdpWiWg9SI Huntractor HT300 works the land. Deep loosening was not a problem, with the Allison fully automatic transmission assuring continuous power.
 Huntractor HT300	Video: You Tube https://www.youtube.com/watch?v=ZYFZ7MVdRWw https://www.youtube.com/watch?v=OdMl9H34L9A Huntractor HT300 pulls sunken agricultural machines out of previously flooded fields.

 © Allison Transmission	Huntractor HT300 is recognized by Hungarian agricultural specialists with the Local Product Development Award at the Agromash Expo and Agricultural Machine Show in Hungary.
 © Allison Transmission	Allison 4500 fully automatic transmission