G. Zwiehoff GmbH at the transport logistic 2025 trade fair with two innovations in sustainable road/rail technology

Press release

Rosenheim, May 23, 2025

G. Zwiehoff GmbH, one of the market leaders for intelligent and multifunctional road/rail vehicle concepts, which is celebrating its 30th company anniversary this year, will present two newly developed, emission-free shunting and work vehicles for the first time in Munich as part of transport logistic 2025 from June 2nd to 5th, 2025.

The family-owned company with headquarters in Rosenheim/Bavaria and worldwide service and sales, has stood for outstanding and durable shunting and work vehicles for over 30 years. The legacy of company founder Gerd Zwiehoff is being successfully continued and expanded by his two sons, Frank and Stephan. The aim was to design the technically sophisticated, durable vehicles in a sustainable and emission-free version as electric vehicles for shunting operations on the last mile.

ROTRAC RRe - the concept for heavy shunting operations with loads up to 4,000 t

With the ROTRAC RRe series, Zwiehoff has successfully designed electric shunting vehicles for the reliable movement of heavy loads. This model series, alongside comparable diesel-powered models, is available in various configurations as an equally capable and sustainable electric alternative. The series impresses with features such as its compact footprint for loading and unloading, an all-welded, robust steel frame construction, high maneuverability with steered rear wheels, automatic system monitoring, and, above all, ease of maintenance. Its high-voltage Lithium-Ion battery (620 V DC) with a capacity of up to 140 kWh or 210 kWh enables rapid recharging. Finally, the ROTRAC RRe series offers greater comfort for the operator through a significant noise reduction compared to the diesel version.

Stephan Zwiehoff, CEO of G. Zwiehoff GmbH: “We had long been convinced that the next step in the ROTRAC RR series for moving heavy loads also required a powerful, flexible and maneuverable solution in the electric sector, which we wanted to develop. With the ROTRAC RRe, we have succeeded in developing a fully electric, emission-free and

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maneuverable road/rail shunting vehicle for moving heavy loads."

Technical information on ROTRAC RRe:
Zwiehoff_RotracRRe_Power_2025_EN_250520_A4.pdf

ROTRAC E1 – agile road/rail electric shunting vehicle for loads up to 110 t

The second innovation is the compact ROTRAC E1, a powerful road/rail shunting vehicle that has been newly developed as an electric vehicle in its small dimensions and optimized for towing loads of up to 110 tons. A special feature is that, thanks to its low profile combined with a folding coupling rod, it can even drive under trains. With its dimensions of only approximately 2290 x 1740 x 790 mm and a total weight of only approximately 2700 kg, the compact E1 is a remarkable achievement.

The innovative E1 road/rail electric shunter is equipped with a long-life Li-Ion battery that allows intermediate charging. Its low height and short wheelbase offer high flexibility, ensure safe movement of bogies under rolling stock and it has the proven technology of Linde MH, which has been used millions of times.

The E1 impresses with its compact design – ideal for working in confined spaces, featuring traction control for high transfer of traction force and low tire wear. The technical specifications of the powerful, compact E1 speak for themselves: different coupling systems (lowering device as an option), maximum energy efficiency by recovery of energy, boost function to ensure a high pullaway performance, radio remote control as standard, fully synchronized individual wheel drive, continuous speed control, robust readjusting and compensating rail guidance system, adaptive vehicle control and torque-balance between the rail wheels.

Stephan Zwiehoff, CEO of G. Zwiehoff GmbH, emphasizes: "With our latest development, the E1, we have succeeded in achieving 100 percent directional stability and a small turning radius, while simultaneously enabling sensitive steering of loads up to 110 tons. Its low height even allows it to drive under trains. We are not aware of any other product like this on the market."

Technical information on E1: Zwiehoff_Rotrac_E1_Prospekt_2025_EN_250514_A4.pdf

The two innovations will be on display at the transport logistic 2025. G. Zwiehoff GmbH will be presenting the 30-ton truck at its stand in the outdoor area and the smaller E1 as a co-exhibitor at the BAYERN INNOVATIV joint stand in Hall B5.

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Visitors will also find the familiar Zwiehoff vehicles ROTRAC E4 and Unimog U423 in the outdoor area.

G. Zwiehoff GmbH looks forward to your visit at the transport logistic trade fair: Dates: June 2–5, 2025 Outdoor Area 703A/2 as the main exhibitor and indoors in Hall B 5.317 at the BAYERN INNOVATIV joint stand.

Download press material and images:
https://www.zwiehoff.com/en/press/

Picture 1:

Caption: Due to its low-profile design combined with a foldable coupling rod, the compact E1 road/rail electric shunting vehicle from G. Zwiehoff GmbH is even able to drive under trains.

Picture 2:

Caption: Compact – powerful – environmentally friendly. The new E1 impresses with its high-quality technology and robust construction for moving loads up to 110 tons.

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Picture 3:

Caption: With the ROTRAC RRe series, G. Zwiehoff GmbH has succeeded in designing a powerful, flexible electric road/rail shunting vehicle for moving loads up to 4,000 t, emission-free and quietly.

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G. Zwiehoff GmbH

High-performance, innovative, and technologically leading – Zwiehoff GmbH, with headquarters in Rosenheim, is a market leader in intelligent and multifunctional road/rail vehicle concepts. These vehicles can travel on both road and rail and are used worldwide as shunting, work, or rescue vehicles. Our customers include large industrial companies with rail sidings, metros, subways, railways, and ports.

As an innovative and flexible company with over 30 years of experience, we offer customized solutions, even for complex challenges. Together with our customers and partners, we strive for the best solution, exploring new technological avenues along the way. The highest quality standards and customer satisfaction are paramount for us. Our certifications underscore our commitment to quality and sustainability. At G. Zwiehoff GmbH, we are deeply involved in sustainability issues from both ecological and social perspectives. Because we understand that we also have a responsibility to give back.

Further information: www.zwiehoff.com