Press Release

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TII KAMAG Supplies Six U-Frame Slag Pot Carriers to Nickel Plant in Brazil

TII KAMAG has received an order from a Brazilian mining company for six KAMAG Slag Pot Carriers (SPC) featuring a U-frame design. Each vehicle offers a payload capacity of 154 U.S. tons (140 metric tons) and will be deployed as part of a fleet renewal program at an existing nickel plant in Brazil. There, the vehicles will transport hot slag between the plant and a remote slag disposal site.

The new KAMAG Slag Pot Carriers will replace the customer's existing vehicle fleet. With this investment, the customer has chosen vehicles from the TII Group for the first time. In addition to technical performance, reliable support throughout the vehicles' entire service life was a key factor in the purchasing decision. Together with its long-standing local partner RIMAC, TII KAMAG therefore developed a comprehensive solution combining proven vehicle technology, digital services and a long-term spare parts supply concept.

Designed for Demanding Route Conditions

The route between the nickel plant and the slag disposal site places particular demands on the vehicles. Along a section approximately 0.6 miles (1 kilometer) in length, the Slag Pot Carriers must safely and reliably negotiate grades of up to five percent while carrying heavy loads.

TII KAMAG adapted the vehicles specifically for these operating conditions. For the first time, Slag Pot Carriers in this series are equipped with powerful Caterpillar C18 diesel engines delivering 429 kW (575 hp). The engines provide the power reserves required for fully loaded operation on the demanding route. The six KAMAG SPC units offer a payload capacity of 154 U.S. tons (140 metric tons) and are designed to handle slag pots with capacities of up to 39 cubic yards (30 cubic meters).

"Our Slag Pot Carriers are based on a proven vehicle platform that we configure specifically for each customer's operating environment," said Oliver Schwarz, Area Sales Manager at TII Group. "Working closely with the customer, we defined a high-performance solution that meets the requirements on site while combining operational reliability with dependable service support."

Enhanced Safety for Long Haul Operations

A tire pressure monitoring system continuously monitors tire conditions during operation. This feature is particularly important given the long transport distances and the remote location of the slag disposal site. Potential issues can be identified at an early stage, helping prevent unplanned downtime.

To ensure consistently reliable braking performance on downhill sections, the vehicles are equipped with wet multi-disc brakes. Because the friction discs operate entirely in oil, heat is

dissipated efficiently. This ensures stable braking performance even during repeated downhill runs under full load. At the same time, the system reduces wear, lowering maintenance requirements and minimizing the risk of unexpected downtime.

Digital Fleet Monitoring and Long-Term Parts Availability

A key focus of the project is ensuring rapid service support and short response times whenever maintenance is required. The KAMAG SPC fleet is equipped with KAMAG Connect, which transmits real-time vehicle notifications and fault messages.

Detailed diagnostic codes help identify potential maintenance needs at an early stage and allow service interventions to be planned more effectively. TII KAMAG can analyze available data before technicians arrive on site and coordinate the necessary technical measures and spare parts requirements in advance. This shortens diagnostic and response times and helps minimize unplanned downtime.

KAMAG Connect is complemented by a dedicated spare parts agreement covering the initial years of operation. Together with local support provided by RIMAC, this creates a comprehensive service package designed to ensure maximum fleet availability.

Close Collaboration with Local Partner RIMAC

Sales, project coordination and service support are being handled in close cooperation with RIMAC. The company has been an important sales and service partner of the TII Group in Brazil for many years. RIMAC's extensive market knowledge, local presence and service expertise ensure reliable on-site support for customers.

The six vehicles will be delivered in stages. The first Slag Pot Carrier is already en route to Brazil, while two additional units have recently been completed. The remaining three vehicles are scheduled for delivery by the end of 2026.

With this order, TII KAMAG further strengthens its position as a provider of application-specific transport solutions for the metallurgical and mining industries. At the same time, the project underscores the company's commitment to combining advanced vehicle technology, digital connectivity, long-term parts availability and reliable local service into a comprehensive customer solution.

Six KAMAG Slag Pot Carriers, each with a payload capacity of 154 U.S. tons (140 metric tons), will renew a customer's vehicle fleet at a nickel plant in Brazil.

TII KAMAG specifically configures its proven vehicle technology to meet the demanding operating conditions at a Brazilian nickel plant.

(Illustrative image) A total of six KAMAG Slag Pot Carriers are designed for the safe transport of hot slag between the nickel plant and a remote slag disposal site.

KAMAG SPC with a U-frame design: Short lifting distances allow the vehicles to pick up slag pots quickly, supporting efficient material transport operations at the customer's nickel plant.

KAMAG Connect, a long-term spare parts supply agreement and local support from RIMAC contribute to the high availability of the new vehicle fleet.

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Company profile

The TII Group, a company owned by the Heilbronn-based Otto Rettenmaier family, is a globally active manufacturer of heavy-duty and special vehicles and has a workforce of around 1000 employees. The Group includes industry specialists, TII SCHEUERLE and TII KAMAG, and has production sites in Germany and India along with a worldwide organisation of sales and service partners. With innovative vehicles for manoeuvring and transportation operations, the TII Group, which is listed in the index of world market leaders, supports its customers in the transport and logistics sectors, building industry, plant engineering, air and space travel, shipbuilding, energy, steel and mining as well as yard logistics for realising a wide range of complex transport tasks. The TII Group holds the current world record of over 23,000 tons for the transportation of extremely heavy loads on vehicles. TII stands for the tradition of innovation, customer orientation and partnership as well as for high product quality and sustainability in heavy-duty mobility.

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