

### **Liebherr T 236: New 100-tonne mining truck**

- The introduction of Liebherr Litronic Plus Generation 2 technology builds on 10years' proven application of vertically integrated electric drive technologies.
- Strategically developed to deliver customers with a cost per tonne advantage.
- First field operation in Austrian iron ore mine after successfully completed testing phase.

**Leoben (Austria), 24 October 2017 – Liebherr new T 236 mining truck demonstrates the company's continued innovation in design, paired with the evolution of Liebherr's own high quality components and class-leading technology. This new rigid-frame dump truck with a diesel electric drive system is Liebherr's entry into the 100 tonne class and is the first in this class with a 4-corner, oil immersed braking system**

Since its first presentation to the public on occasion of the 2016 Minexpo in Las Vegas, the T 236 has successfully completed its testing phase and has recently started its first field operation trials at the Erzberg Iron mine in Austria.

#### **Low Operating Costs**

Capitalizing on decades of proven experience in off highway truck technologies, the T 236 takes advantage of Liebherr's electric drive system innovations with the introduction of the vertically integrated Litronic Plus Generation 2 AC drive system.

This innovative machine provides the industry with a new benchmark in the 100 tonne class for off highway mining trucks: focusing on top performance, maximum uptime and lowest possible operating costs. All components on our truck are designed and built to perform and last in the most extreme mining conditions. As a result, Liebherr trucks run much longer between component overhauls, saving time and money.

#### **Easy Serviceability and Safe Operation**

To ensure the safety of maintenance technicians and bystanders, the T 236 is equipped with double pole battery, starter motor and hoist system isolators as

standard. In addition, the Liebherr truck provides an innovative drive system inhibit, electrically interlocked to grounding devices for each plug and drive power module. Operating on a voltage level of 690 VAC and 900 VDC enables regular site technicians to carry out system maintenance. An industry first, Liebherr's Litronic Plus Isolation system ensures the safety of maintenance personnel through the elimination of hazards by design.

The revolutionary in-line electrical power train layout minimizes cable length, while the maintenance free IP 68-rated plug and-drive power modules ensure reliable operation in all-weather situations. Combined with the extended life service intervals and minimized maintenance time offered by the ground-level service points, the T 236 ensures maximum uptime.

Liebherr is committed to designing mining trucks that operators want to drive. The ergonomic T 236 cab and the superior properties of the front wheel suspension system fulfils this commitment and promotes driver efficiency with superior comfort, safety, acceleration and handling for increased performance.

### **Superior Fuel Efficiency**

The next evolution in Electric Drive System design, Liebherr's Litronic Plus Generation 2 drive system introduces advanced Active Front End technology. Making efficient use of electrical energy during retarding events, the drive system is able to deliver controlled engine speed with almost no fuel consumption.

Vertical integration of Liebherr designed and manufactured components ensures the T 236 powertrain components achieve optimal system efficiency and performance throughout the full range of applications. The T 236's innovative variable hydraulic system lowers machine parasitics to provide maximum power, while lowering fuel consumption when power is not required.

### **Outstanding Performance**

With its high take off torque and continuous power to ground capability, the T 236 is less sensitive to grade and payload variations, providing mining customers with class-

leading productivity. The T 236 is the first diesel electric truck in class to incorporate an oil immersed braking system with four corner retarding capabilities, providing reliable braking technology. All of these integrated technologies provides maximum performance, even in the toughest operation conditions: translating directly into a cost per tonne advantage.

Designed to carry up to a 100 metric payload, when paired with the R 9100, R 9150, R 9200, or R 9250 mining excavators, the T 236 provides the most complete high performance and scalable truck-shovel match, delivering the right combination for production requirements.

### **Captions**

liebherr-t236-mining-truck\_1.jpg:

The Liebherr T 236 mining truck has recently started its first field operation trials at the Erzberg Iron mine in Austria.

liebherr-t236-mining-truck\_2.jpg:

The ergonomic cab of the Liebherr T 236 mining truck promotes driver efficiency with superior comfort and safety.

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