

Trolley Navigation Assist

Truck Assistance Systems

LIEBHERR

Mining Truck



Maximise your trolley infrastructure with smart automation

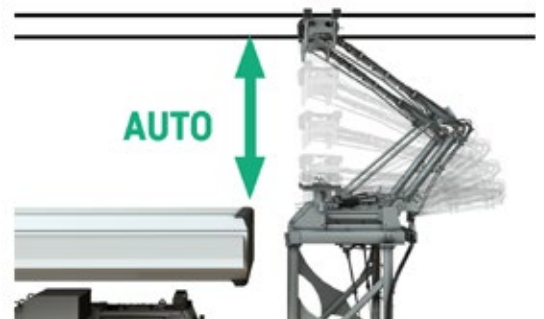


IoMine

Get the best out of your Liebherr mining truck fleet with the Trolley Navigation Assist, a semi-autonomous solution for off-highway trucks that helps you enjoy the maximum benefits of your onsite trolley infrastructure while also increasing efficiency and reducing operator stress and fatigue.

Features

The Trolley Navigation Assist automatically steers the truck to maintain a consistent travel path while under the trolley power line and automatically raises and lowers the truck's pantograph. This system reduces stress on the operator and maximises utilisation of the trolley line, decreasing fuel consumption and CO₂ emissions. This field-proven solution is available for new T264, T274 and T284 mining trucks and can also be retrofitted into existing models.



Highlights



Decrease greenhouse gas emissions



Maximise trolley line use



Reduce stress on the operator

Why using trolley line

Decrease greenhouse gas emissions

Liebherr's trolley system is an effective first step on the road to zero emission mine sites of the future. When connected to a trolley line, trucks use grid energy for power during haulage segments, which offers:

- Increased truck fleet productivity, or reduction in fleet size while maintaining yearly production, versus standard trucks
- Reduction of fuel consumption from 50 l / 13.2 gal to 2.5 l / 0.7 gal of diesel for a 1 km / 0.6 mi trolley run
- Reduction of carbon footprint by decreasing the truck fleet CO₂ emissions
- Battery-electric trucks also use the trolley line to dynamically charge batteries.

Charge batteries while driving

Battery-electric trucks can also use the trolley line to dynamically charge batteries, reducing downtime and extending their driving range.

Increase productivity

Liebherr's trolley system allows trucks to operate at higher speeds on grade and therefore reduce cycle times. By augmenting speed on grade by up to 24 km/h (15 mph), maximising productivity and offering higher production per hour.

1.8x faster

When comparing trolley trucks and diesel trucks on a 10 % gradient.

35–70 %

Fewer CO₂ emissions and fuel consumption *

Trolley system

- Available as an option for all Liebherr trucks either at first fit or as a retrofit'
- Compatible and performance-enhancing in combination with diesel powertrain
- Available for Liebherr battery-electric trucks, optimising battery usage



* Based on 1–3 km (0.6–1.9) mi trolley line (25–80 % of entire cycle)

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