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Gmeinder and Its Yellow Fleet Gearbox Family

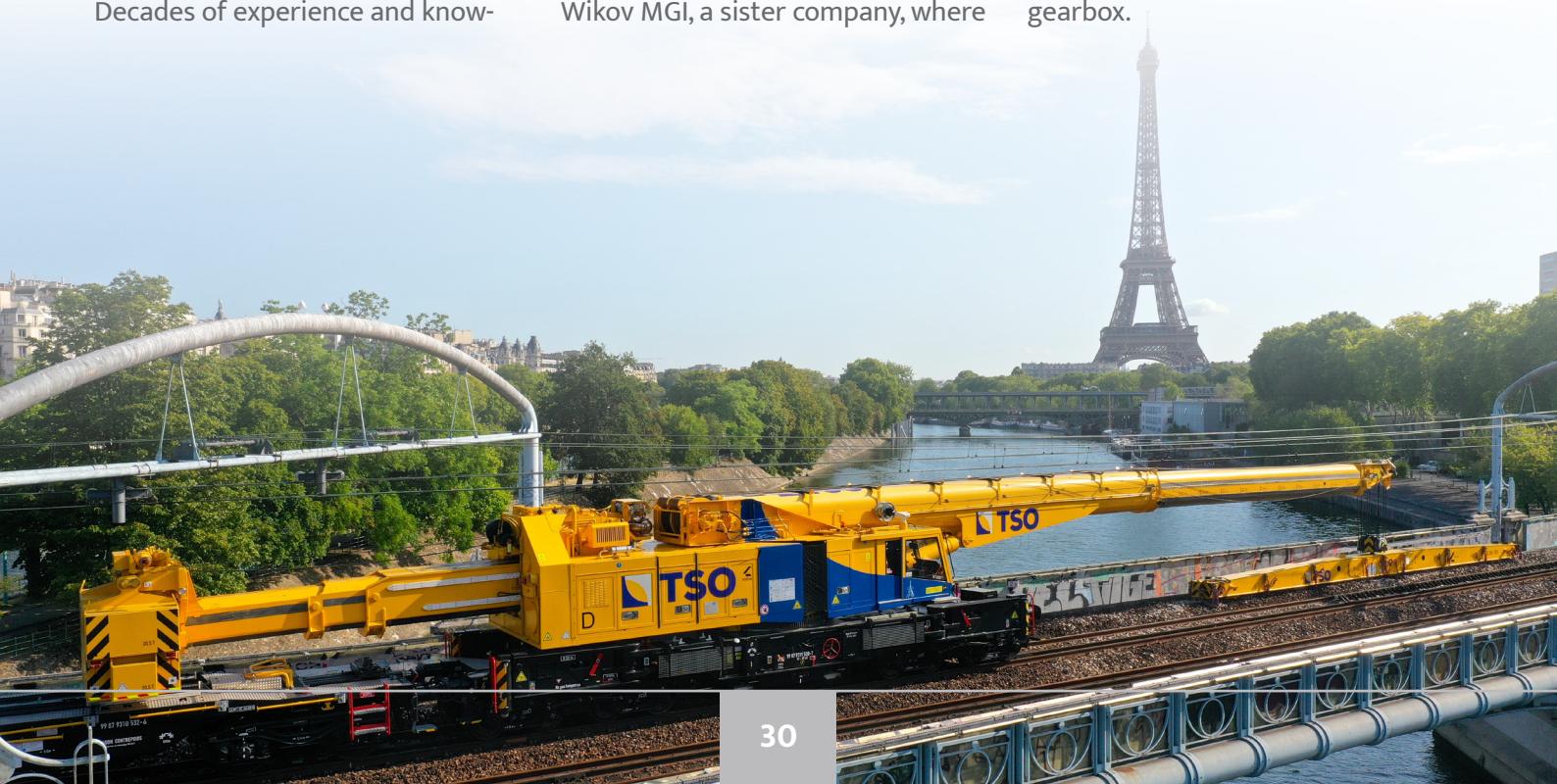
GT GMEINDER GETRIEBETECHNIK GmbH from Mosbach, Germany is continuously strengthening its position in the supply of gearboxes for the Yellow Fleet.

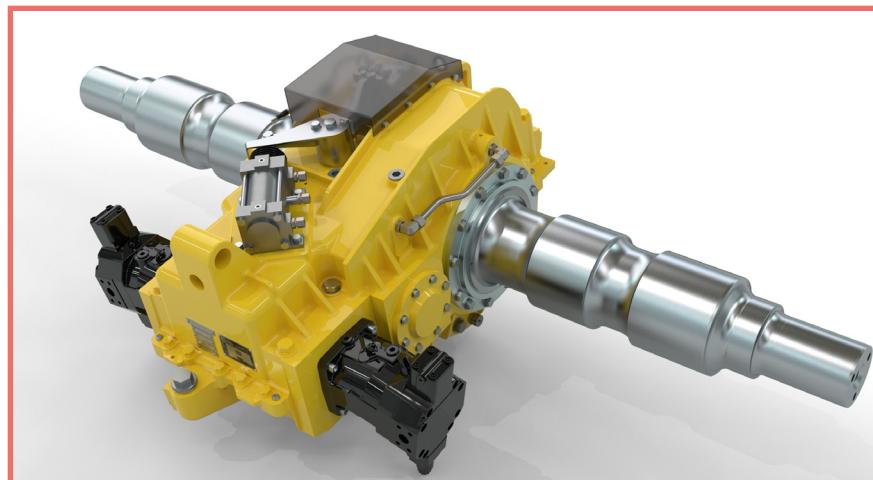
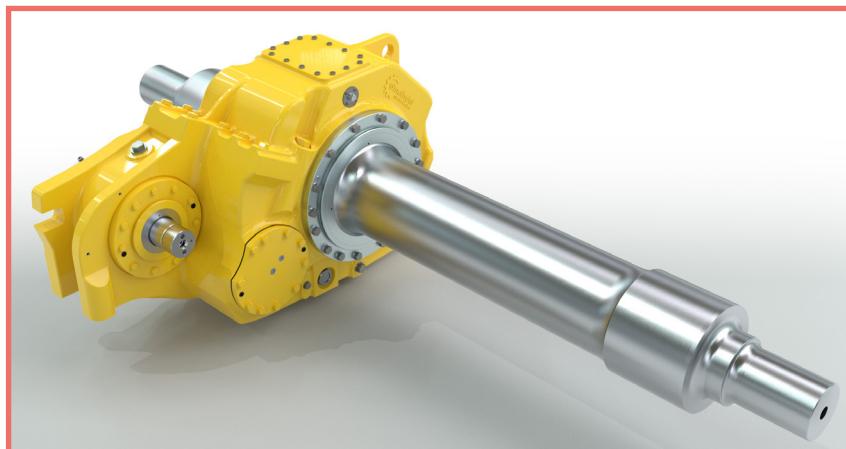
Gmeinder is a market leader in gearboxes and drives for special purpose vehicles, railway cranes, track inspection vehicles, tampers, machines for track construction and renewal, maintenance vehicles, etc. Decades of experience and know-

how at Gmeinder, passed down from generation to generation, is your guarantee of quality and reliability.

The company is now releasing a range of upgraded gearboxes on the market. Firstly, there is the GGT 224S range of shiftable gearboxes for cranes and multi-purpose vehicles. This is a two-stage helical gearbox with two different ratios optimised for cold environments (-40°C). The gearbox or the complete drive can be tested in such temperature conditions at Wikov MGI, a sister company, where

they have experience in testing gearboxes for arctic conditions. The gearbox is equipped with a switching mechanism for the three positions: travel mode, working mode and position for towing. The switching mechanism is mechanical with a sliding sleeve that catches the corresponding claws of a gear coupling. The switching mechanism can work only when stopping the vehicle. This type of gearbox is not powered by an electric traction motor, as is common on most rolling stock, but by one or two hydrostatic motors on one or both sides of the gearbox.





Another type is the GGT 263S/630 gearbox for maintenance vehicles. Again, this is a two-stage helical gearbox, this time with a fixed gear ratio. The gearbox housing is made of aluminium alloy for the necessary weight reduction. The gearbox is optimised for very low working speeds under full load (< 1km/h). This requires a specially designed gearbox to ensure a sufficient oil supply to the bearings and gears during all load conditions, even on steep uphill and downhill rides. This could be achieved without an oil pump.

The GGT 275 gearbox range has undergone another major innovation. This series is again designed for maintenance vehicles. Compared to the other series, it has been possible to implement essential features. The GGT 275

gearbox series allows the use of several fixed gear ratios without changing the size of the gearbox housing. Again, this is a two-stage helical gearbox for maintenance vehicles. Three different fixed gears and two motor interfaces can be used. This gearbox series has been optimised for very low working speeds under full load (< 1 km/h). It is also important to note that the gearbox is available in two versions, one standard version directly mounted on the axle shaft and a suspended version with a hollow shaft in the gearbox and a coupling to the axle shaft.

Finally, it should be noted that the gearboxes could be equipped with a remote condition-monitoring system that was developed in-house at Gmeinder. GGT-GearSaver® is a unique system using only one

complex sensor that is capable of monitoring the operating temperature of oil, relative oil humidity, oil level, oil conductivity and ferromagnetic particle contamination. This system brings the customer a completely new and measurement-based solution for preventive maintenance, which saves valuable resources, minimises or even prevents damage incidents and reduces maintenance costs.

GGT GMEINDER GETRIEBETECHNIK GmbH

Anton-Gmeinder-Str. 9–19
74821 Mosbach
Germany

+49 6261 806 121

info@gmeinder.de



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