

Custom Mining Drives

Oerlikon Fairfield's steerable wheel drive (pictured at right) and low seam tram drive (bottom right) are robustly designed for underground conditions, such as mining.

Market

- **Mining** – underground miner and shuttle car applications

Features

Steerable Wheel Drive

- New drive for large mining shuttle car
- Design with 22.5 KNm (199,141 in-lb) continuous output torque
- Integrated right angle drive and planetary drive
- Dual input shaft location
- Gear reduction ratios from 35:1
- Steel forged spindle, output and intermediate carriers for greater strength
- Cast steel housing optimized for high wheel loads
- $\pm 22^\circ$ of total steering travel
- Floating output carrier for improved gear, planet bearing life and load sharing
- Output carrier locks the bearing nut to ensure integrity of the assembly
- Mechanical face seal for superior protection against contamination
- Tapered roller bearings for high radial load capacity
- Steering flange adaptable for customer specific mounting
- Dual input flanges for power input on either side of unit
- Designed seal labyrinth for superior protection against contamination
- Machined pilot for ease of installation in customer machine
- Multiple O-ring plugs on the housing and cover for easy oil fill and drainage

Low Seam Tram Drive

- Integrated right angle drive
- Ratio ranges from 35:1 to 200:1
- Both electric and hydraulic motor inputs available
- Multiple pipe plugs for oil fill and drain allows for better serviceability
- Continuous output torque rating from 11,000 Nm (97,358 in-lb) to 70,000 Nm (619,552.5 in-lb)
- Removable track wear plates allow easier access and serviceability to decrease downtime
- Mechanical face seal located in output sprocket provides superior protection against contamination
- Dual output sprockets allow customer to replace worn components without complete disassembly of gearbox
- High strength carburized steel gearing with ground teeth add extra impact resistance & durability for an overall increased life



Steerable Wheel Drive



Low Seam Tram Drive

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