

Increased performance through carbonitriding

Work roll bearing arrangement in a 6-stand hot strip mill

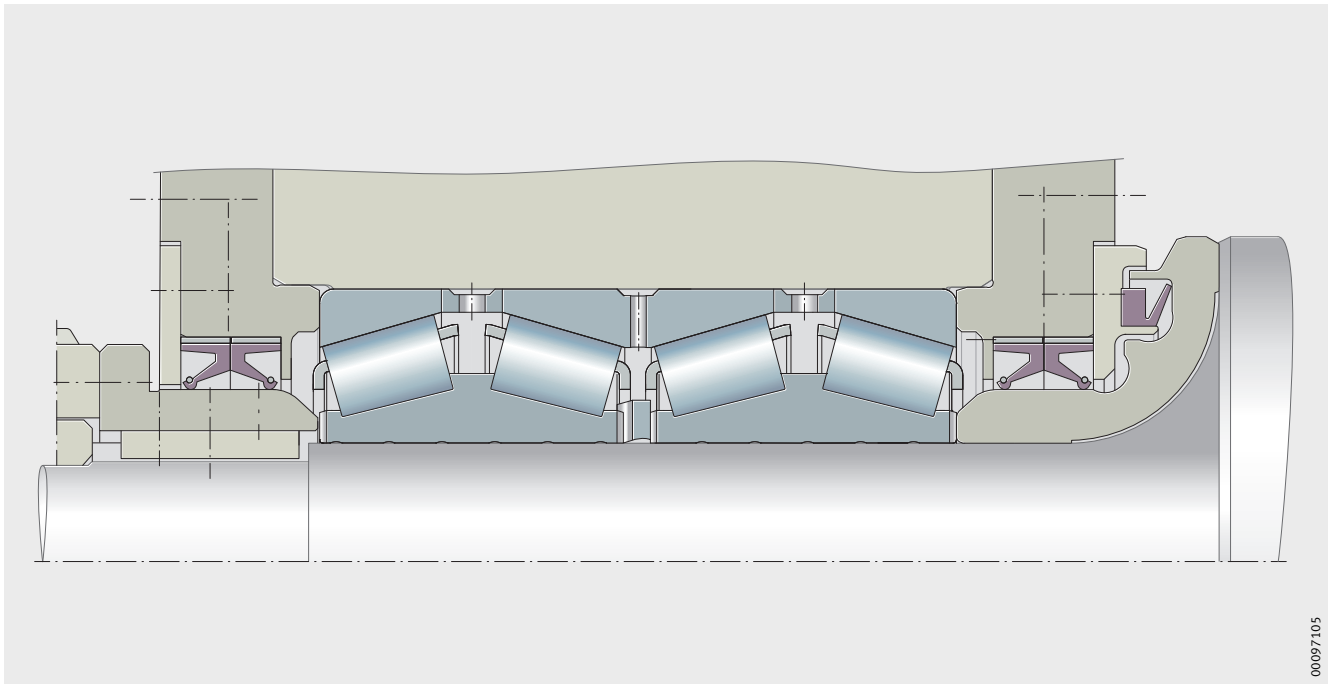
FAG



Plant operator: PAO Severstal, Standort Cherepovets, Russland

Plant manufacturer: NKMZ, Ukraine

SCHAEFFLER



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Tapered roller bearings for the support of work rolls (schematic)

Operating data

- Rolling force 29 MN
- Max. rolling velocity 11,5 m/s
- Work roll diameter 677 mm
- Roll body length max. 1700 mm
- Counterbending 230 kN
- Lubrication of bearings Grease

Four-row tapered roller bearing FAG F-802264.TR4-W72D-M15WZ

- Bore 395,0 mm
- Outside diameter 545,0 mm
- Width 268,7/288,7 mm
- Basic dynamic load rating 4 250 kN
- Basic static load rating 8 700 kN
- Axial internal clearance 0,3 mm to 0,4 mm

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In this special heat treatment, the surface layer of the bearing rings is enriched with carbon as well as with nitrogen. The bearings thus offer high wear resistance and higher surface hardness. As a result, the bearings have a significantly extending operating life.

Customer benefits

- Approximately twice the operating life due to higher wear resistance
- Longer fatigue life under good lubrication conditions
- Increased equipment availability

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