

Products in continuous casting plant



Figure 1 · Guide rolls in continuous casting plant CGM 22

CORUS, NL

With its CoCaB program (Continuous Caster Bearing), Schaeffler Group Industrial offers bearing solutions for application specifically on continuous casting plant.

For years, cylindrical roller bearings have performed with great success in the continuous casting plant CGM 22 at CORUS Netherlands, *Figure 1*.

Due to the good running time results, the thin strip continuous casting plant DSP (Direct Sheet Plant) was also fitted with cylindrical roller bearings from Schaeffler Technologies GmbH & Co. KG in 2005.

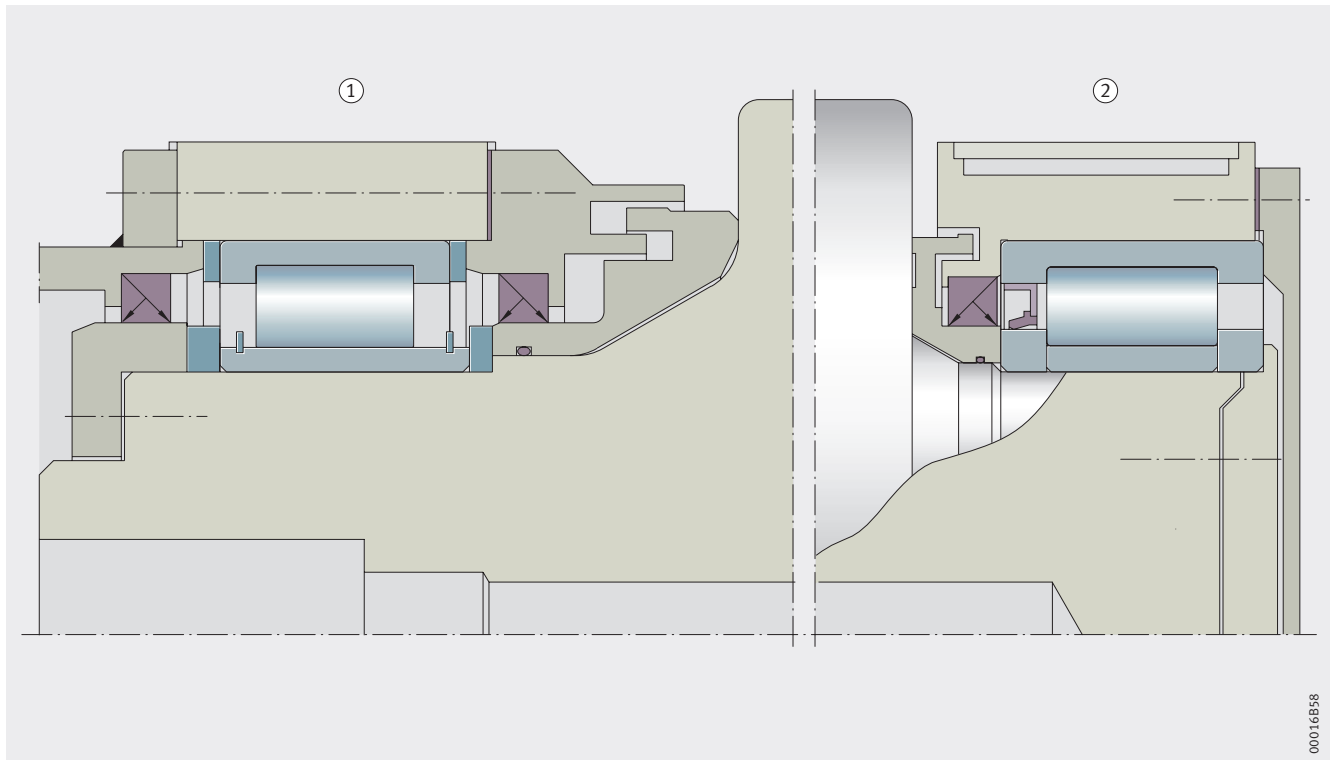


Figure 2 · Bearing arrangement of the strand guide roll
 ① Non-locating bearing side, ② Locating bearing side

**Technical data
 on the continuous casting plant CGM 22**

- Roll diameter:
 - 265 mm, 285 mm, 325 mm
- Outer bearing (non-locating bearing):
 - full complement cylindrical roller bearing
- Centre bearing (locating bearing):
 - full complement cylindrical roller bearing
- Annual output:
 - 3 million tonnes to 3,7 million tonnes
- Lubrication:
 - grease Klueber Staburags NBU 12
- Sealing:
 - Locating bearing sealed on the crowned end side, externally using Furon seals
- Operating period:
 - Volume production from 1994, various bearings adapted in 2005 (to match specific application).

Operating life up to 96 weeks, depending on the mounting location.

The bearings are then replaced on a preventive basis in order to guard against the risk of failure.

Bearing sizes fitted in the continuous casting plant (excerpt)

Designation	Roll diameter mm	Dimensions d×D×B mm	Basic load ratings	
			dyn. C _r kN	stat. C _{0r} kN
F-552068.ZL Locating bearing	265	120×180×60	395	620
F-552069.ZL Non-locating bearing	265	120×180×77/60	395	620
F-221168.5 Locating bearing	285	140×210×69	530	850
F-552070.ZL Non-locating bearing	285	140×210×86,5/69	530	850
F-221170.6 Locating bearing	325	160×240×80	730	1 210
F-552071.ZL Non-locating bearing	325	160×240×93/80	680	1 110

The designs are matched as necessary to the new requirements in the continuous casting plant.

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