



Hydrodynamic Fluid Film Bearing Technical Data Sheet

For Rolling Mill Applications

Drawing No.	4.084692.N
Product Type	Hydrodynamic Fluid Film Bearing
Application	Rolling Mills
Supply Scope	OEM & Aftermarket

Product Overview

Designed for heavy-duty rolling mill applications, this hydrodynamic fluid film bearing provides stable load support and long service life under continuous operation.

Working Principle

A stable lubricating oil film is formed between the shaft and bearing surface, preventing metal-to-metal contact, reducing friction and wear, and ensuring reliable performance under high load conditions.

Key Features

- Hydrodynamic oil film lubrication
- High load-carrying capacity
- Continuous-duty operation capability
- Reduced friction and wear
- Precision-machined bearing surface
- Radial oil inlet for lubrication

Typical Applications

- Bar and wire rod rolling mills
- Hot rolling mills
- Main drive and support shafts
- Rolling mill gearboxes

Technical Notes

- Bearing type: Hydrodynamic fluid film bearing
- Lubrication: Forced oil or splash lubrication
- Operating condition: High load, continuous operation
- Custom dimensions and materials available

For reference only. Final specifications are subject to confirmed drawings.