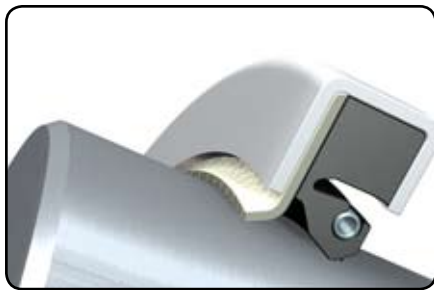


HDSF2 large diameter seals with PTFE excluder lip

Excluder lip provides extra line of defence against abrasive dust

Industrial facilities, such as coal-fired power stations, mines and cement making plants that rely on pulverizers and grinding mills, face a constant challenge to keep this critical equipment up and running as cost-effectively as possible, despite their heavily contaminated operating environments.

The bearings and lubricants are highly susceptible to contamination from abrasive



dust. Once this dust gets past the seal, bearing wear and shaft damage often occurs, leading to premature failures, unplanned downtime, costly repairs and lost productivity.

The HDSF2 solution: twice as effective as single-lip designs

Along with its primary elastomer sealing lip and metal case, the HDSF2 large diameter seal features an auxiliary PTFE excluder lip for extra protection against dust and other contaminants. This additional defence helps extend bearing and lubricant service life and

replacement intervals. Because the excluder lip is designed to operate dry with minimum friction torque, it requires no additional lubrication.

In SKF testing, HDSF2 large diameter seals proved twice as effective excluding contaminants as commonly used single-lip seals. Depending on the equipment utilization, HDSF2 seals can extend bearing replacement intervals from 12 to 24 months, boosting plant productivity and reducing operating costs.

Benefits

- Increase productivity
- Cut maintenance and repair costs
- Extend bearing service life
- Increase lubricant service life
- Extend bearing replacement intervals
- Minimize lubricant leakage
- Reduce lubricant consumption

Typical applications

A range of mining, mineral and cement processing equipment, including:

- Coal pulverizers
- Horizontal grinding mills
- Vertical roller mills



More effective sealing with a large diameter wear sleeve

Contaminants and polishing friction between a rotating shaft and a seal can cause shaft surface damage. An SKF large diameter wear sleeve provides an excellent solution. Featuring a high-quality carbon steel and chrome plated to enhance wear and corrosion resistance, the sleeve provides a precision counterface surface for optimum HDSF2 seal performance.

HDSF2 technical specifications

Lip material	Temperature range °C (°F)	
Nitrile rubber	-40 to 100	(-40 to 210)
Carboxylated nitrile	-40 to 100	(-40 to 210)
Hydrogenated nitrile	-40 to 150	(-40 to 300)
Fluoro rubber	-40 to 200	(-40 to 390)
Polytetrafluoroethylene	-70 to 250	(-90 to 480)

Standard size range		
Shaft diameter	165,10 to 1 606,55 mm	(6,500 to 63,250 in)
Bore diameter	196,85 to 1 638,30 mm	(7,750 to 64,500 in)
Nominal width	15,88 to 31,75 mm	(0,625 to 1,250 in)
Difference between bore and shaft	31,75 to 76,20 mm	(1,250 to 3,000 in)

Large diameter wear sleeve primary size range, LDSLV3

Shaft diameter range		Sleeve width	
over	incl	min	max
mm/in		mm/in	
211,15	736,60	17,48	63,50
8,313	29,000	0,688	2,500
736,60	1 143,00	25,40	63,50
29,000	45,000	1,000	2,500

Large diameter wear sleeve primary size range, LDSLV4

Shaft diameter range		Sleeve width	
over	incl	min	max
mm/in		mm/in	
211,15	736,60	12,70	63,50
8,313	29,000	0,500	2,500
736,60	1 143,00	19,05	63,50
29,000	45,000	0,750	2,500



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