

Low-Friction TM-Seal for Transmission

Bearings NSK has developed a low-friction seal for transmission bearings that reduces the seal friction by 50%, in comparison to the old TM-seal design (10% friction reduction on the complete bearing). NSK's fitted bearings with TM-seals are used inside transmissions to inhibit the ingress of gear dust and other contaminants.

Product Features

- The seal friction was reduced by narrowing the seal lip by 10% and lengthening it by 70%, compared to conventional bearings
- The seal lip shape was improved based on computer analysis; the new shape improves lip-following and stabilises the contact pressure along the edge.

Benefits

- Seal friction reduced by up to 50% compared to the old TM-seal design and total bearing friction reduction of around 10%.
- Same durability as the replaced TM-bearings by preventing the ingress of contaminants to the transmission oil in the bearing. The bearing life is improved by 2,5 times in comparison to open bearings.

Condition Description

- Corrosive Environment
- Low Friction

Industries

• Automotive



35	ΤM	11	A2	-A-6	E7	X26		
		De	Description					
35		Воі	Bore diameter					
TM		NS	NSK Sealed-clean technology seal					
	11	sec	sequential number of design					
	A2	inte	internal design					
-	A-6	cor	corner form					
	E7	out	outer ring Special Feature					
\rangle	X26 Heat Stabilisation of Rings							