

Dismounting


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Bearing type

Selected bearing

SKF 23184 CKJ/W33

Dismounting from adapter sleeve

Hydraulic and oil injection

SI units (metric)


Imperial units (inch/lb)

Carefully read the complete instructions prior to starting work, the instructions may contain alternative tools and measuring methods.

Illustrations are not always proportional and are not always showing the exact design.

The instructions are valid for SKF bearings only.

Where tool recommendations are made, please check the actual dimensions against the bearing and any other components which may interfere with the use of the tool.

 The mounting and dismounting of rolling bearings involve the handling of sometimes heavy weights, the use of tools and other devices, and in some cases the use of high pressure oil. In order to avoid accidents, injuries or damage to property please follow carefully the prescribed methods.

Precautions

Arrange for a clean working place.


An undamaged bearing should be remounted in the same shaft position and orientation. Mark each bearing's relative position, i.e. which section of the bearing is up, which side is in front etc.

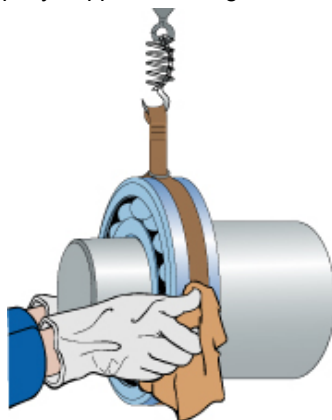
In case of bearing damage it might be necessary to analyse the bearing components to find the cause and to take corrective actions, so dismount with care.

Review the actual drawing and study the bearing arrangement.

Make sure that shaft or housing is properly supported during dismounting.

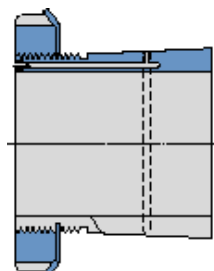
Use lifting equipment to facilitate the handling of the bearing.

 Make sure that the lifting equipment is secure so that the bearing will not be dropped. Check that no-one is under the bearing.



Dismounting procedure

The sleeve is equipped with oil ducts for oil injection.



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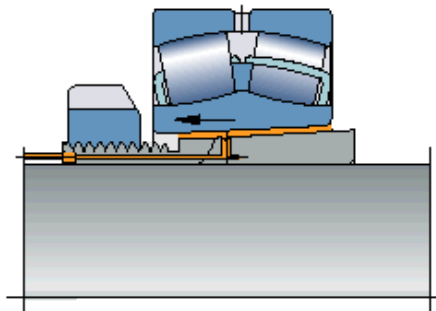
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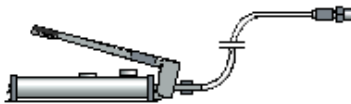
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 Oil injection forces can cause bearings on tapered seats to loosen quickly. Therefore, it is necessary to provide a stop of some kind - e.g a lock nut - to prevent the bearing from being totally ejected. This must be done before an oil film is produced between the surfaces.




Connect the oil injection pump to the sleeve connection.

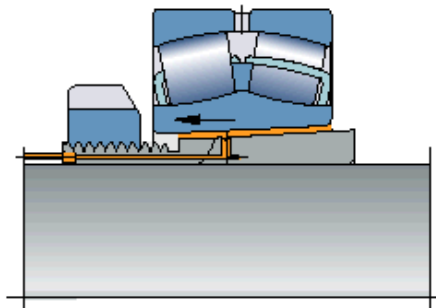


 The oil injection kits SKF [729101 B](#) or SKF [TMJE 300/TMJE 400](#) are recommended.

Inject the oil.

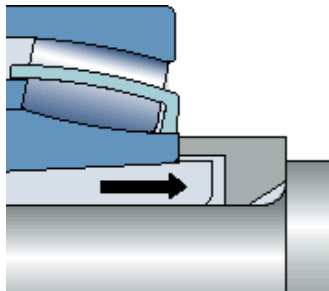
 The oil viscosity should be about 300 mm²/s (1 400 SUS) at ambient temperature. A suitable oil at 20 °C (68 °F) is SKF [LHMF 300](#).

When the injected oil leaks from around the bearing, the bearing is separated from the journal and will easily slide off and stop against the nut.



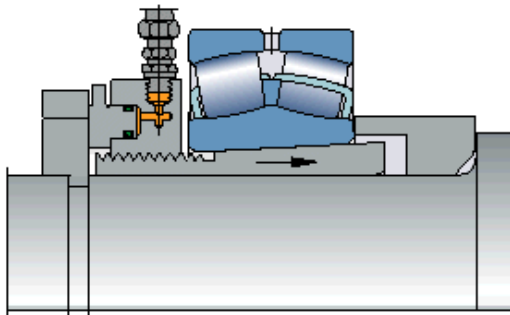
Alternatively

To use this method the bearing must be mounted against a shoulder, and there must be enough space for the adapter sleeve to be pressed inwards.




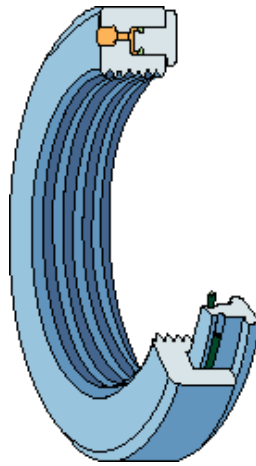
In addition, it must be possible to mount a suitable stop against which the hydraulic nut's piston can rest.

The stop can take the form of a two-piece ring fitted into a groove in the shaft and held in place by a one-piece ring ...



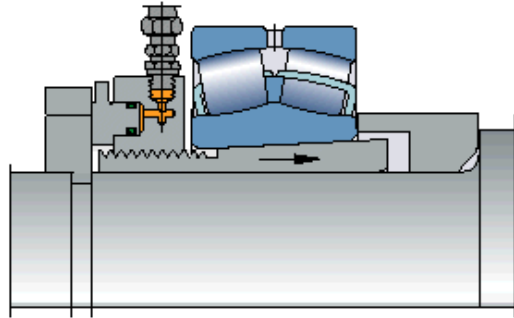
... or it can be a washer or plate bolted to the shaft end.


 To push off the bearing use the hydraulic nut SKF [HMV 84 E](#).



Place the hydraulic nut in position, leaving a small clearance to the bearing greater than the axial drive-up distance.

Pump oil to the nut until the bearing comes loose.



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