

# Installation Guide for Split Roller Bearings

## General:

As usual the installation of bearings should be done in a well prepared environment, e.g. the bearing seats should be cleaned and checked, the bearing location should be easily accessible.

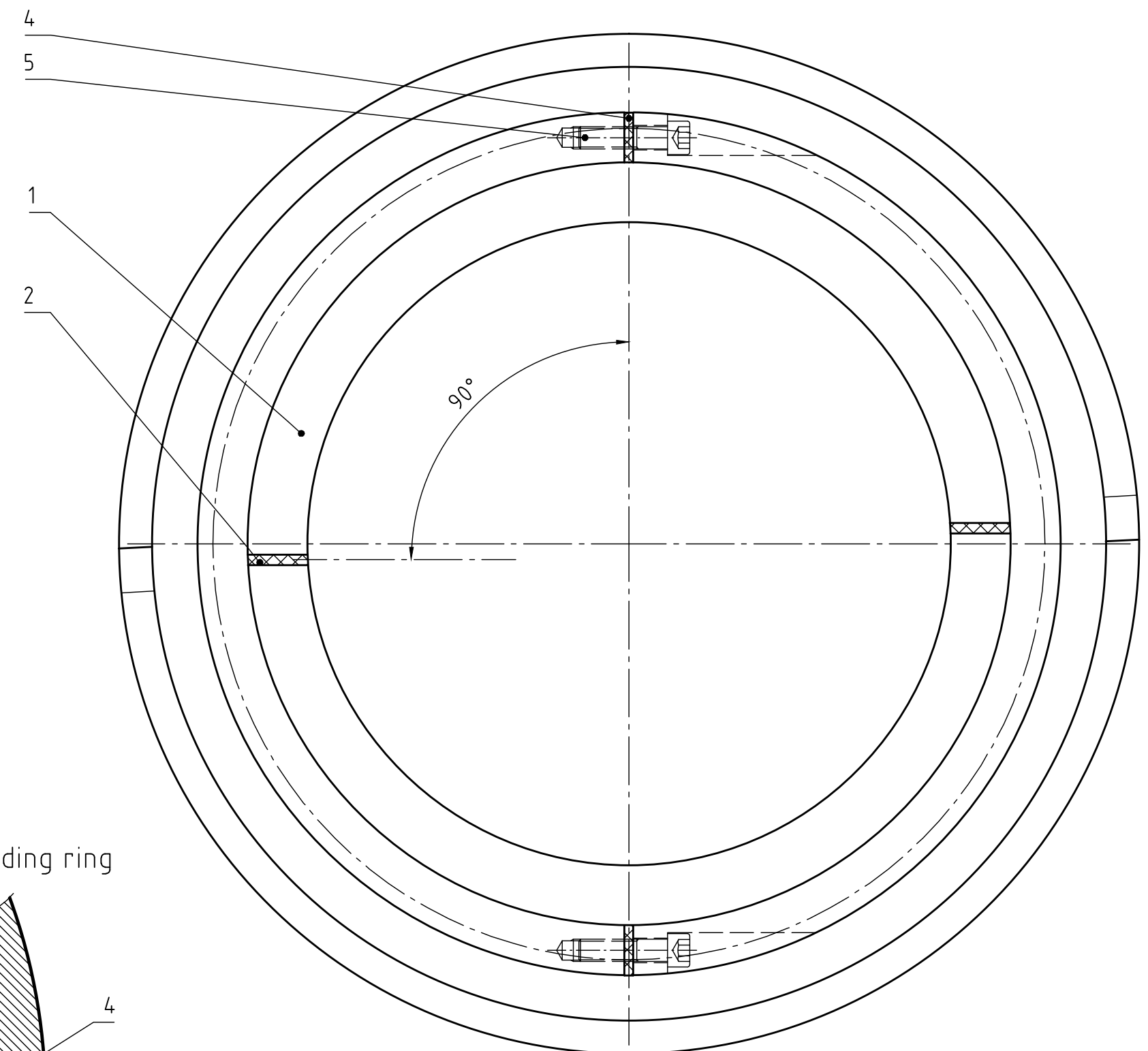
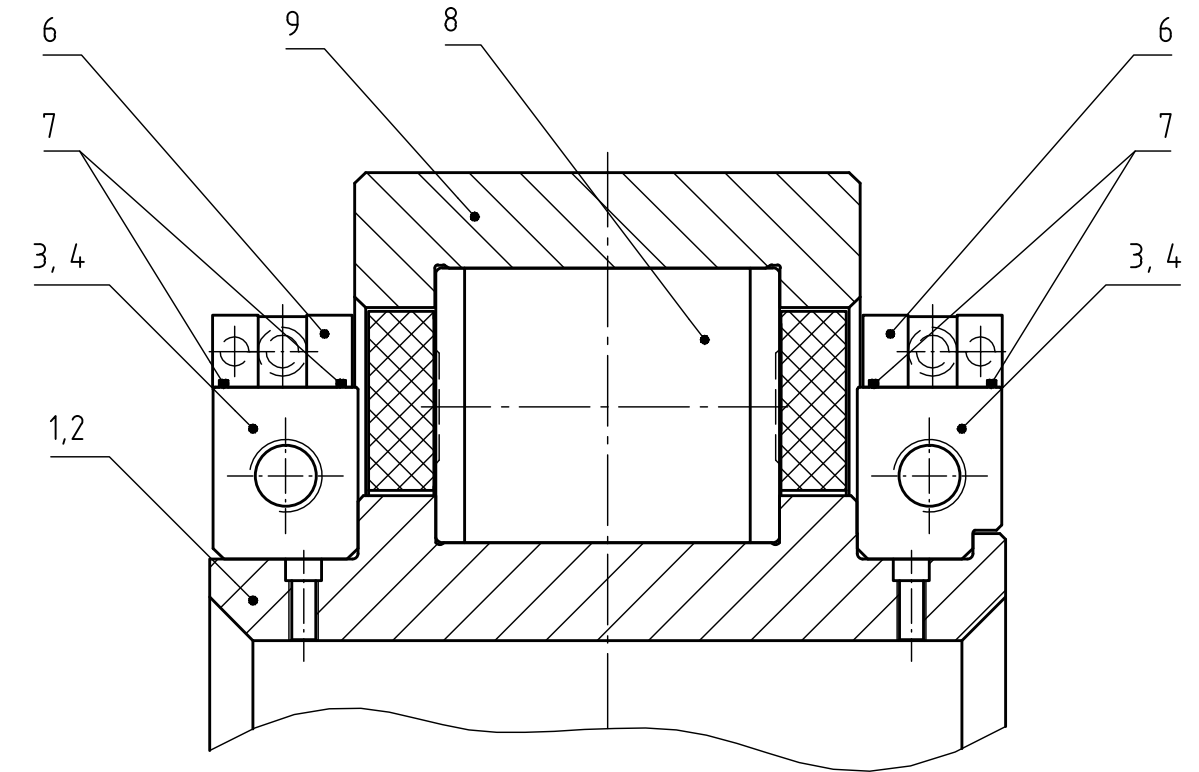
After unwrapping all bearing parts have to be free from grease.

In certain cases split bearing have to be installed while all gaps have to be closed (usually the gaps occur on the inner ring and the clamping rings - there the gap is a relevant feature), cases where the sealing has to be ensured (e.g. in pilger machines). For those applications or bearing types there will be special manufactured sealing plates included in the delivery. Usually the EICH Split Roller Bearing are delivered in parts and premounted. The installation should be done piece by piece and so the parts should be unwrapped just before their use. To identify the parts which belong together, the parts have corresponding numbers on their face sides.

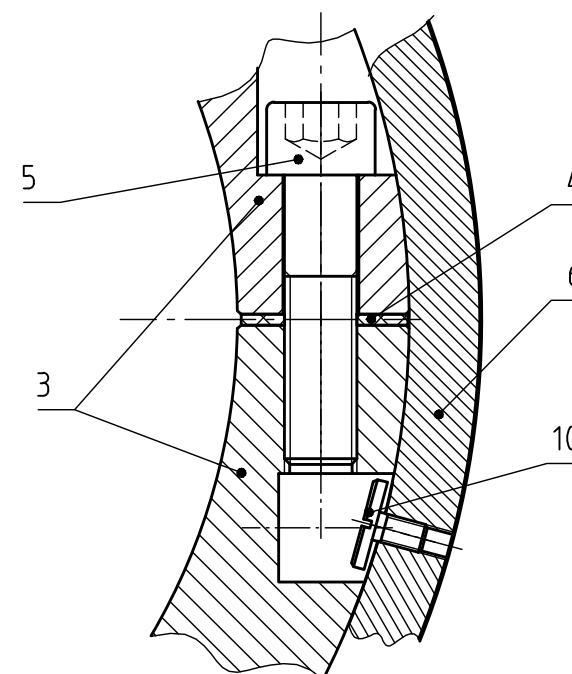
Further advice or guidelines can be found in the machine builder manual.

Chronological survey for the installation (watch also the illustration on the right side):

1. Unwrapping and preparations
2. Installation of one half of the inner ring (1a) after placing the half on the shaft it should be secured against falling down.
3. Before placing the second half (1b) of the inner ring, the sealing plates (2) have to be placed in the separation plane. Next the second inner ring half (1b) has to be positioned. Until the clamping rings are not fitted to the bearing the halves have to be secured.
4. Next part to be installed are the clamping rings (3, 4). As shown in the illustration beside the clamping rings have different outlines, one is plane and the other is contoured, so it is excluded to exchange parts or positions. The first clamping ring half has to be positioned in its groove. To ensure the best clamping the slit should have an offset of roughly 90° to the slit of the inner ring (1a, b). Before placing the second clamping ring half the sealing plate (2) has to be added. Once one clamping ring is installed the inner ring will be fixed and the locking device can be removed.
5. Tighten the screws (5) of the clamping rings (3) with the specified tightening torque (specified tightening torque as per the corresponding drawing). Secure the screws with a screw locking device.
6. After tightening the screws of the clamping rings cut the oozed sealing parts flush to the surface.
7. Insert the O-ring-cord (7) into the sliding ring halves (6), possibly glue the O-ring-cord (in the sliding ring halves). Fix the position of the sliding ring ring, e.g. with a screw (10) acc. to DIN 921
8. Fit the sliding ring halves (6) on the clamping rings (3), position the rotation prevention in the corresponding bore hole in the clamping ring, see detail "Z".
9. Put the first half of the roller cage (8a) on the inner ring and secure against falling down.
10. Put the second half of the roller cage (8b) (on the inner rings) and tighten the screws of the roller cage with the specified tightening torque. Secure the screws with a screw locking device.
11. For further assembly insert the outer ring halves (9) in the bearing housing. Align the slit of the outer rings slightly offset to the slit of the bearing housing.
12. Further assembly according to OEM guidelines.



Detail "Z"  
Installation of sliding ring



Schutzvermerk nach DIN 34 beachten		Kunden- und Lieferzeichnung	Maßstab: 1:1
Bearb.	Datum	Name	
Gepr.		MaEICH	
 EICH-Rollenlager		Montageanleitung / Installation Guide Split Roller Bearing	
		Schema / Scheme	
Zust.	Änderung	Datum	Blatt - Bl
Dateiname: Montageanleitung KPW.dwg			