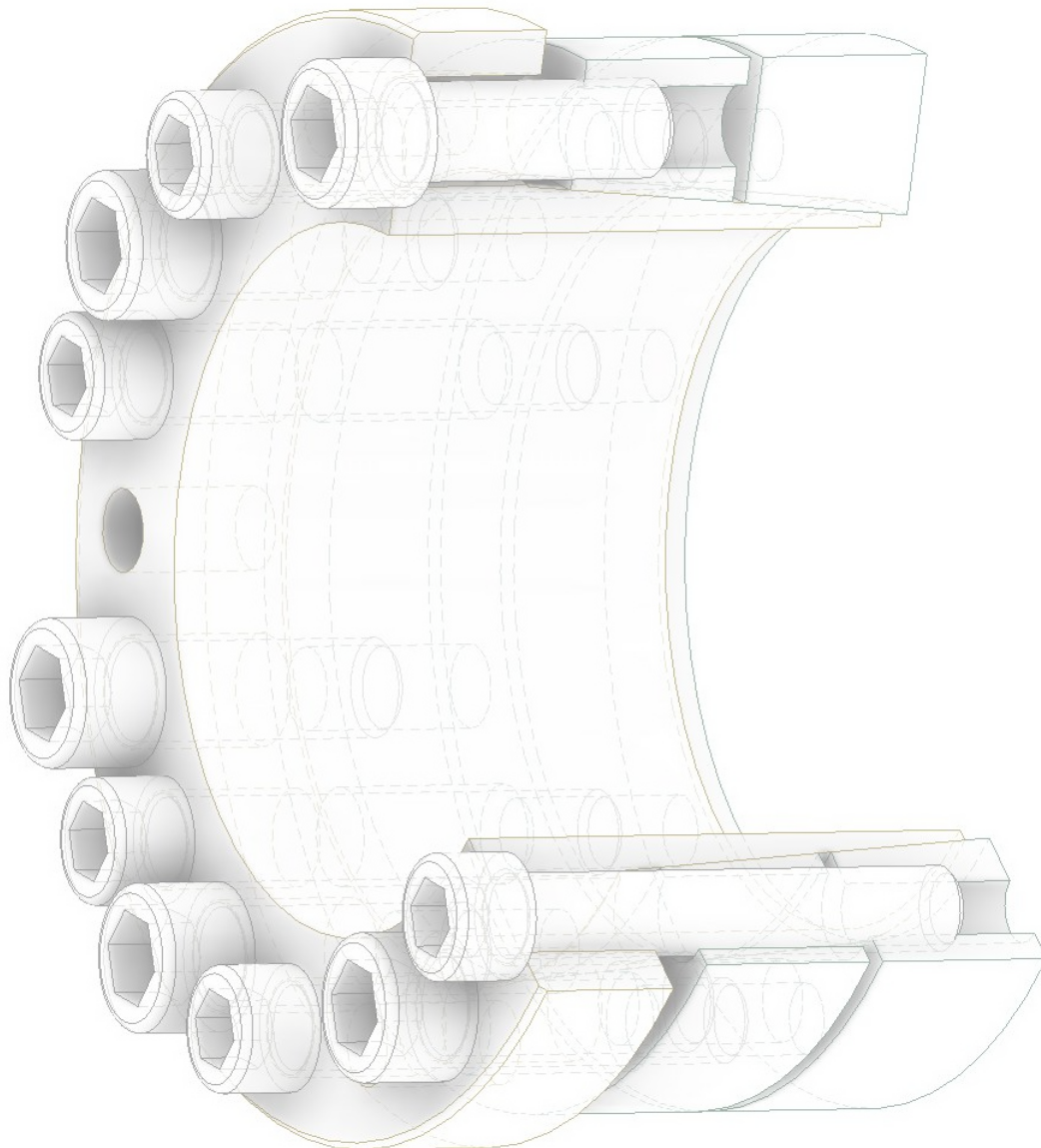


BIKON 2006
Installation Manual



Only available from BIKON-Technik GmbH • 41468 Neuss • Germany

A development of BIKON-Technik GmbH - introduction on global market in year 1983

Index:

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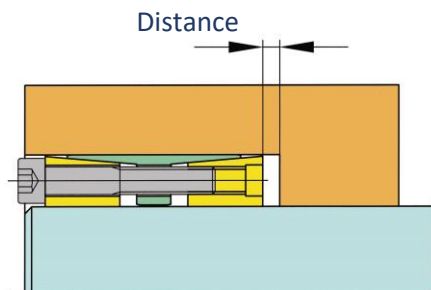
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March 2023

Schematic scetch



Space - generally

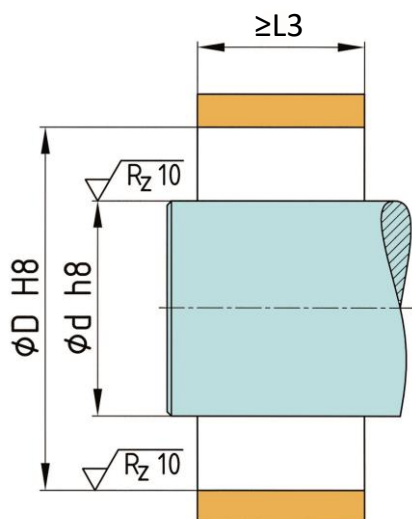
By use of stepped bores the locking assembly should never be pushed to block against the hub. There must be let distance about 2 – 5 mm to the hub to be able to remove the rings from each other. This applies to all BIKON locking assemblies.

Shafts with keyways

BIKON Locking assemblies can be tighten over keyways (according to DIN) on shafts. The function of the locking assembly is not affected.

Keyways in the hub are not allowed !

Space - BIKON 2006



d	D	L3
mm	mm	mm
30	60	36
35	65	36
40	70	36
45	80	42
50	85	42
55	90	42
60	95	42
65	100	42
70	115	58
80	125	58
90	135	58
100	150	61
110	160	61
120	170	61

d	D	L3
mm	mm	mm
130	190	71
140	200	71
150	210	71
160	220	71
170	240	92
180	250	92
190	260	92
200	270	92
220	290	92
240	310	92
260	330	92
280	365	108
300	385	108
320	405	108

d	D	L3
mm	mm	mm
340	425	108
360	445	108
380	465	108
400	485	108
420	505	108
440	525	147
460	545	147
480	565	147
500	585	147
520	605	147
540	625	147
560	645	147
580	665	147
600	685	147

TA – Tightening torque of screws

d	M1	TA1	M2	TA2
mm	-	Nm	-	Nm
30	M8	41	M6	17
35	M8	41	M6	17
40	M8	41	M6	17
45	M10	83	M8	41
50	M10	83	M8	41
55	M10	83	M8	41
60	M10	83	M8	41
65	M10	83	M8	41
70	M12	145	M10	83
80	M12	145	M10	83
90	M12	145	M10	83
100	M14	230	M12	145
110	M14	230	M12	145
120	M14	230	M12	145

d	M1	TA1	M2	TA2
mm	-	Nm	-	Nm
130	M16	355	M14	230
140	M16	355	M14	230
150	M16	355	M14	230
160	M16	355	M14	230
170	M20	690	M16	355
180	M20	690	M16	355
190	M20	690	M16	355
200	M20	690	M16	355
220	M20	690	M16	355
240	M20	690	M16	355
260	M20	690	M16	355
280	M24	1 200	M20	690
300	M24	1 200	M20	690
320	M24	1 200	M20	690

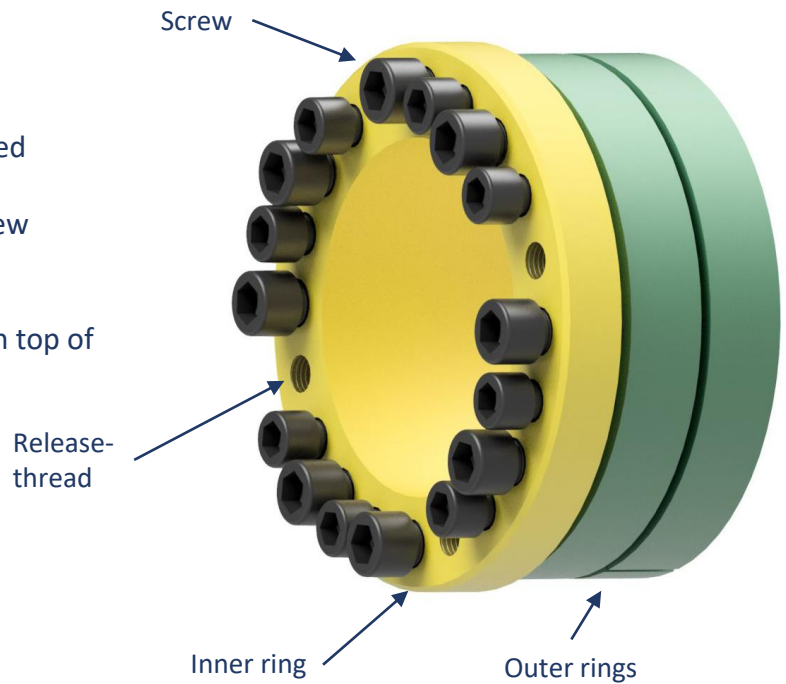
d	M1	TA1	M2	TA2
mm	-	Nm	-	Nm
340	M24	1 200	M20	690
360	M24	1 200	M20	690
380	M24	1 200	M20	690
400	M24	1 200	M20	690
420	M24	1 200	M20	690
440	M24	1 200	M20	690
460	M24	1 200	M20	690
480	M24	1 200	M20	690
500	M24	1 200	M20	690
520	M24	1 200	M20	690
540	M24	1 200	M20	690
560	M24	1 200	M20	690
580	M24	1 200	M20	690
600	M24	1 200	M20	690

Installation

1.

BIKON locking assemblies are delivered ready for installation and oiled. The screws have been unscrewed a few threads.

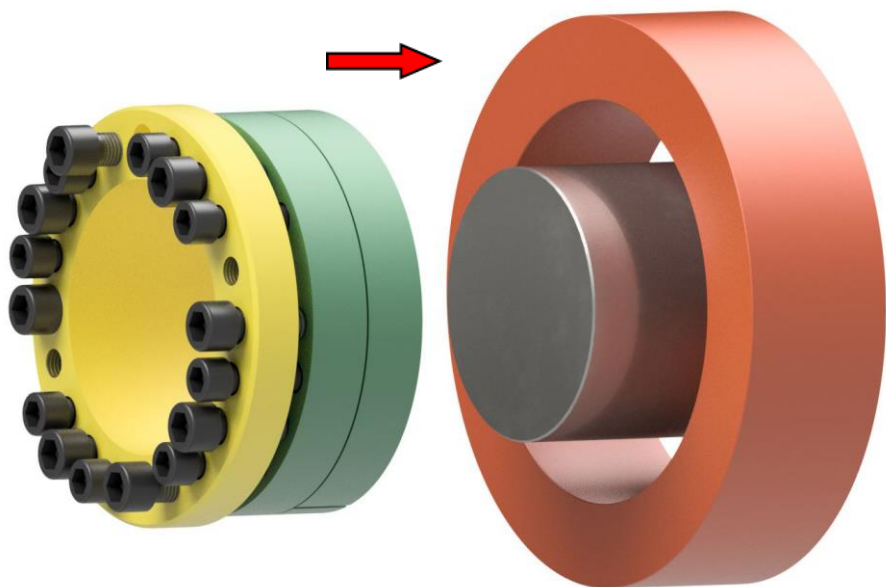
Make sure that the rings fit loosely on top of each other (self-locking cone).



2.

Oil the shaft and hub and push the locking assembly into the installation space.

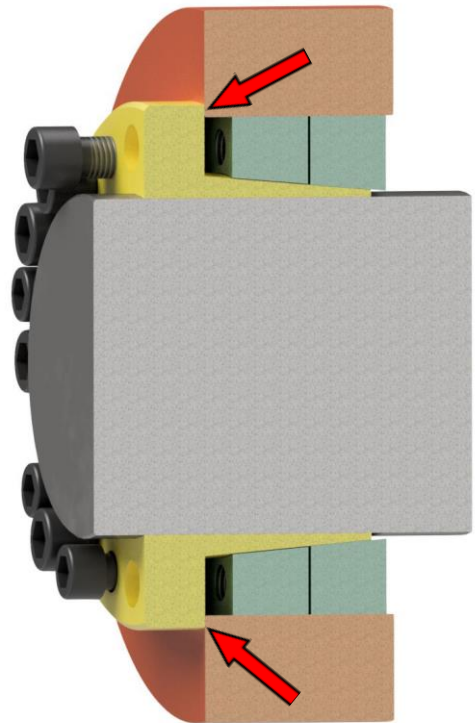
Do not use molybdenum disulfide (MoS₂), assembly paste or grease!



Installation

3.

The locking assembly must sit flush with the hub.



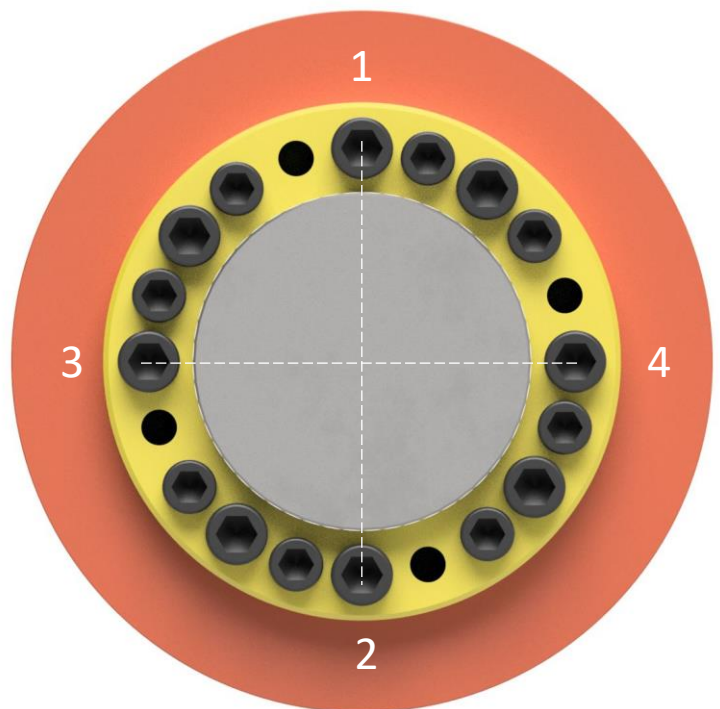
4.

Tighten the screws evenly crosswise and in several stages, starting with the smaller screws, using a torque wrench

Repeat the same procedure for the bigger screws.

control !

The tightening of the screws and the assembly is complete when no more screws can be tightened with the 100% tightening torque.

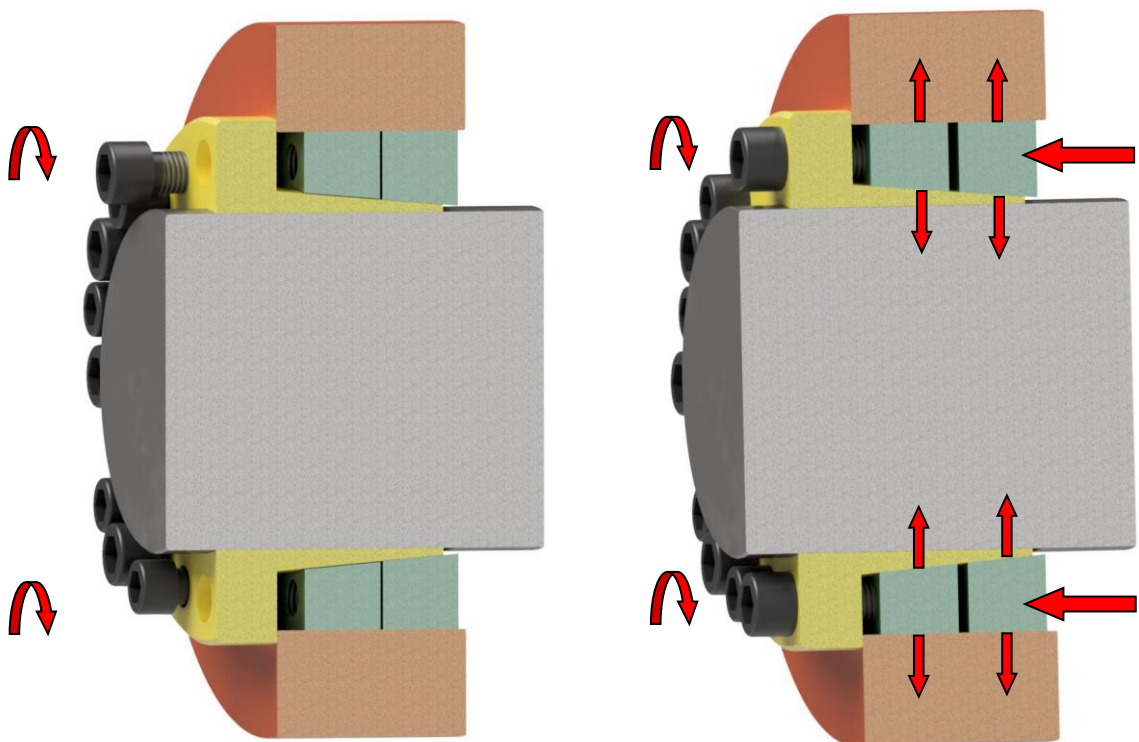


Installation

5.

By tightening the screws, the outer rings slides and tightens the connection. The cone is self-locking and will not loosen by itself if the screws are loosened if it is operated properly.

The hub does not move in the axial direction during assembly.

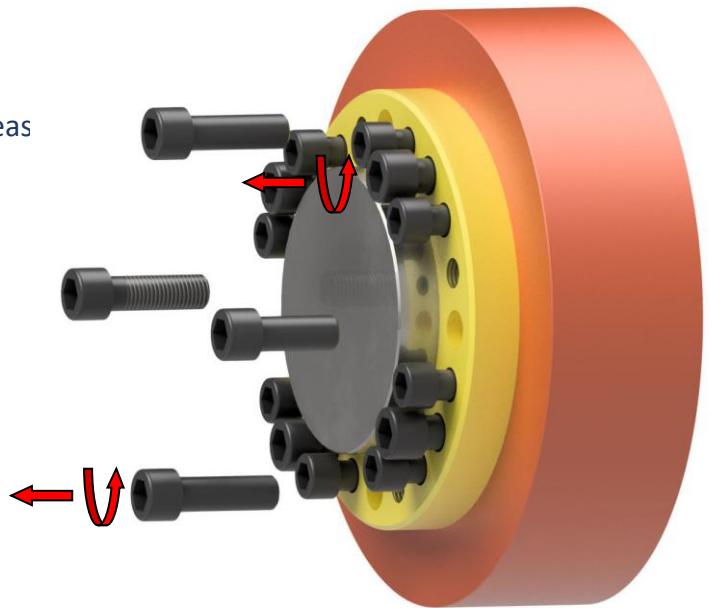


The locking assembly is maintenance-free and the screws do not have to be tightened after a certain period of operation.

Removal

1.

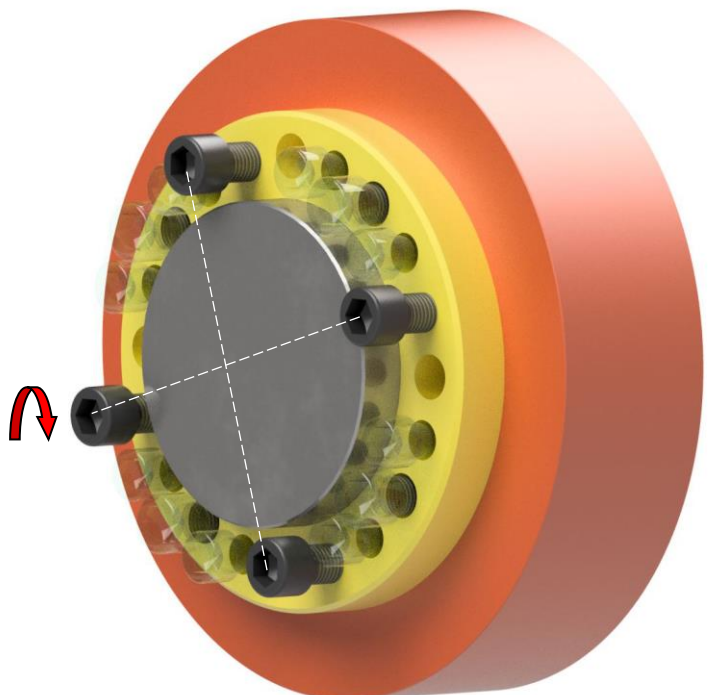
Loosen all screws a few threads.
Unscrew as many screws as there are release threads.



2.

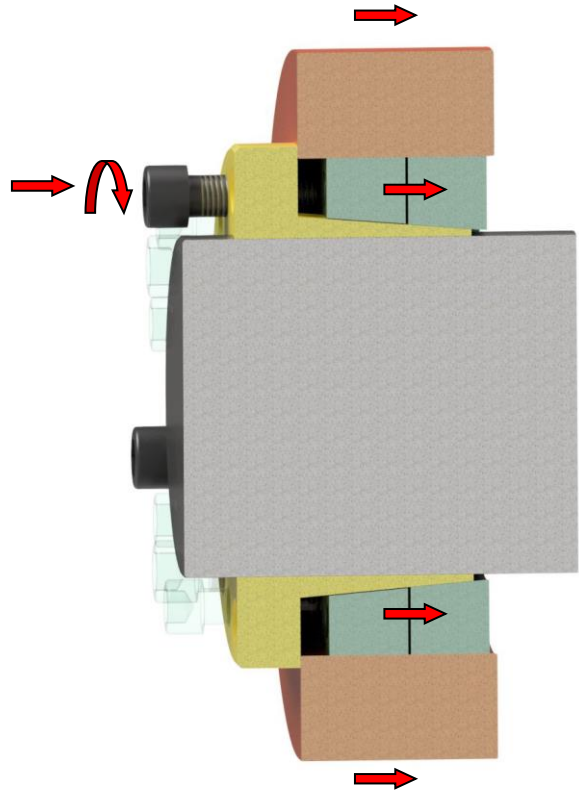
Oil the screws and screw them into the release threads and tighten them crosswise with a torque wrench until the outer ring slides off the inner ring.

(Grind the release screws flat on the face side before screwing them in)

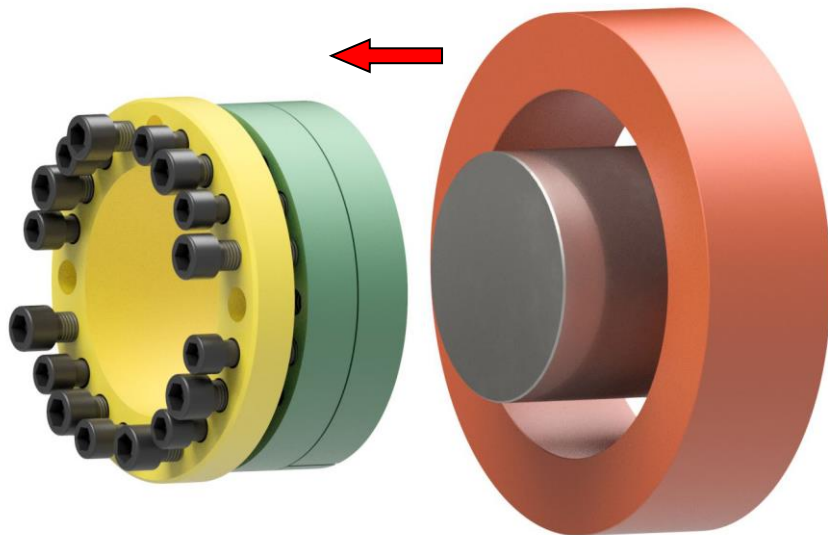


Removal

3.
The outer rings slides off the inner ring together with the hub.



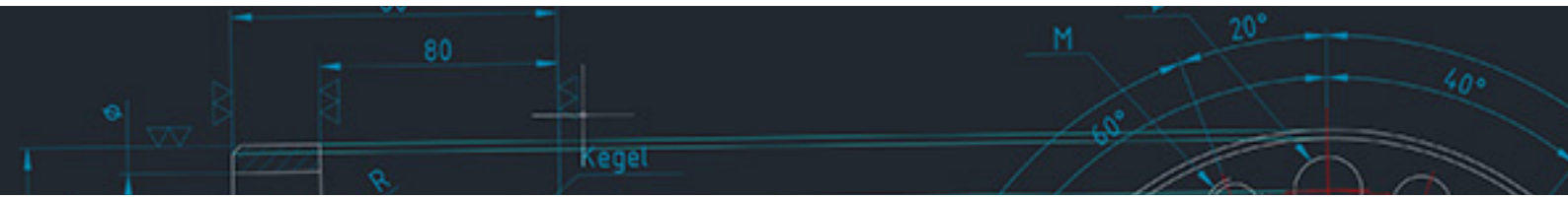
4.
Remove the locking assembly from the space.



Reusability

Undamaged locking assemblies can be reused.

The screws must be changed after each use!



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