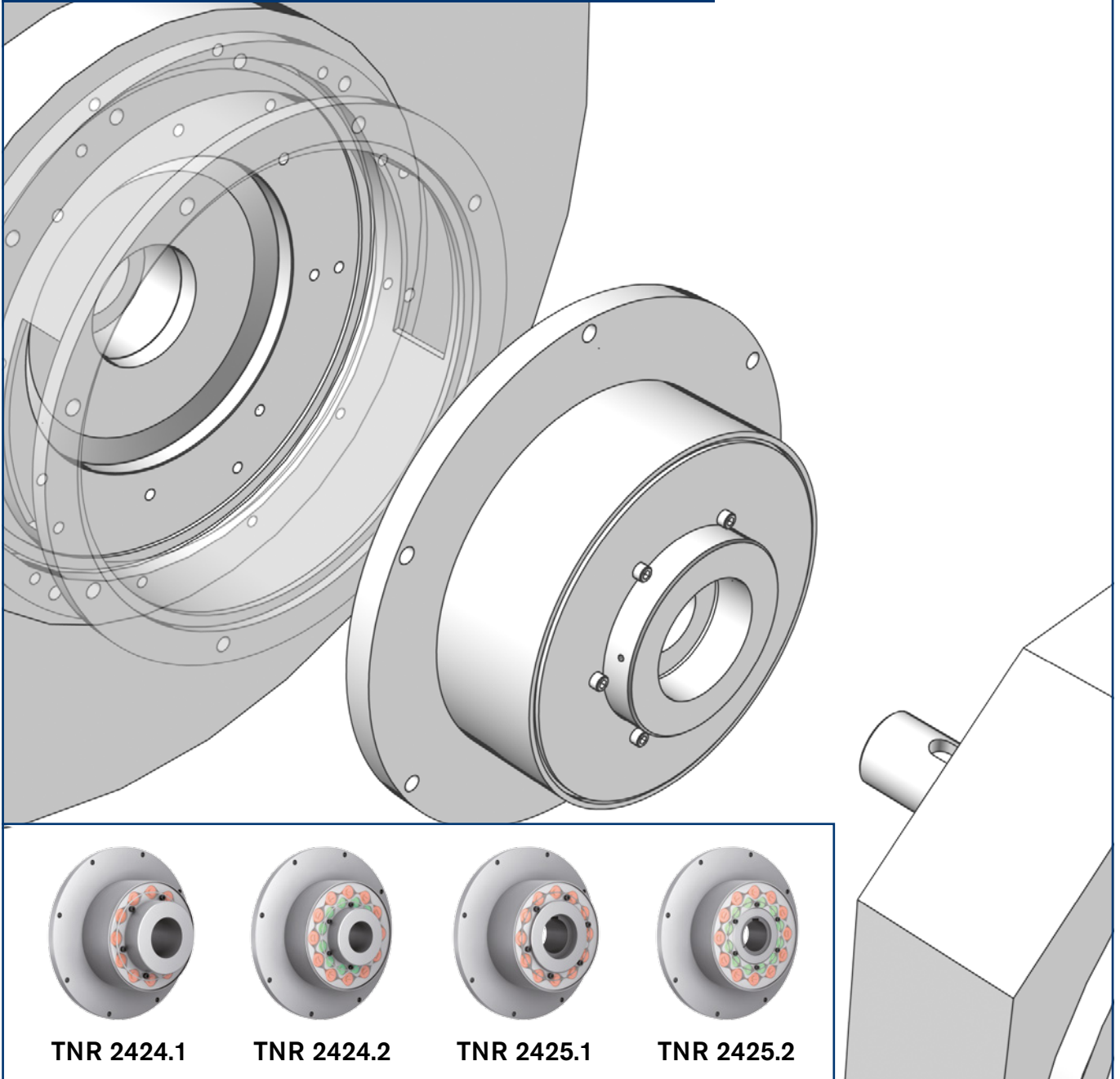







Torsional Highflex Couplings **RINGFEDER® TNR**

Assembly, Disassembly, Maintenance



Safety instructions

Rotating machine parts may injure operators and service staff!
Therefore:

- Switch off the drive before assembly work.
- Safeguard the machine against accidental switch-on.
- Mount all covers and protection devices before switching on the machine.
- RINGFEDER® products may only be mounted by specialist staff and for suitable applications.
- Use only appropriate cleaning agents for the coupling.
-  Never extend your hands in the working area of the coupling whilst it is still running.
-  The coupling heats up during operation.
-  Use hand-gloves when assembling hot flanges and hubs.
-  Dimension check ensure sufficient clearance.
-  Consider thermal-expansion to avoid blocking of drive-train parts.

Storage information

- Couplings can be stored in a dry room under normal ambient temperatures for a period of six months.
- Prevent storage in moisture and damped conditions - the preferred relative humidity is below 65 %.
- Storage for a longer time requires the application of a long-term preservation.
- The elastic buffers must not be exposed to ozonic media, direct sun-light or intensive light sources.
- If the parts are properly stored, the quality characteristics of the elastic buffers remain almost unchanged for up to three years.

Attention

- Please read these instructions through carefully.
- In the event of infringement of these notes all claims of liability will become void.
- RINGFEDER POWER TRANSMISSION reserves the right to make technical changes to improve the product.
- RINGFEDER® Torsional Highflex Couplings are designed in accordance with state of the art.

If you experience problems or have any questions, our technical and service staff will be happy to assist you. See the reverse of these instructions for the corresponding contact information.

Legend



Assembly



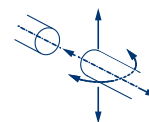
Disassembly



Maintenance /
exchange of buffers



Cleaning



Align shafts
(axial, radial and angular)



Screwdriver



Max. assembling
temperature



Attention!



Lock all screws with
adequated torque



Lubricate (grease, talcum)
used for assembling



Glue-screwing



Tongs



Scissors



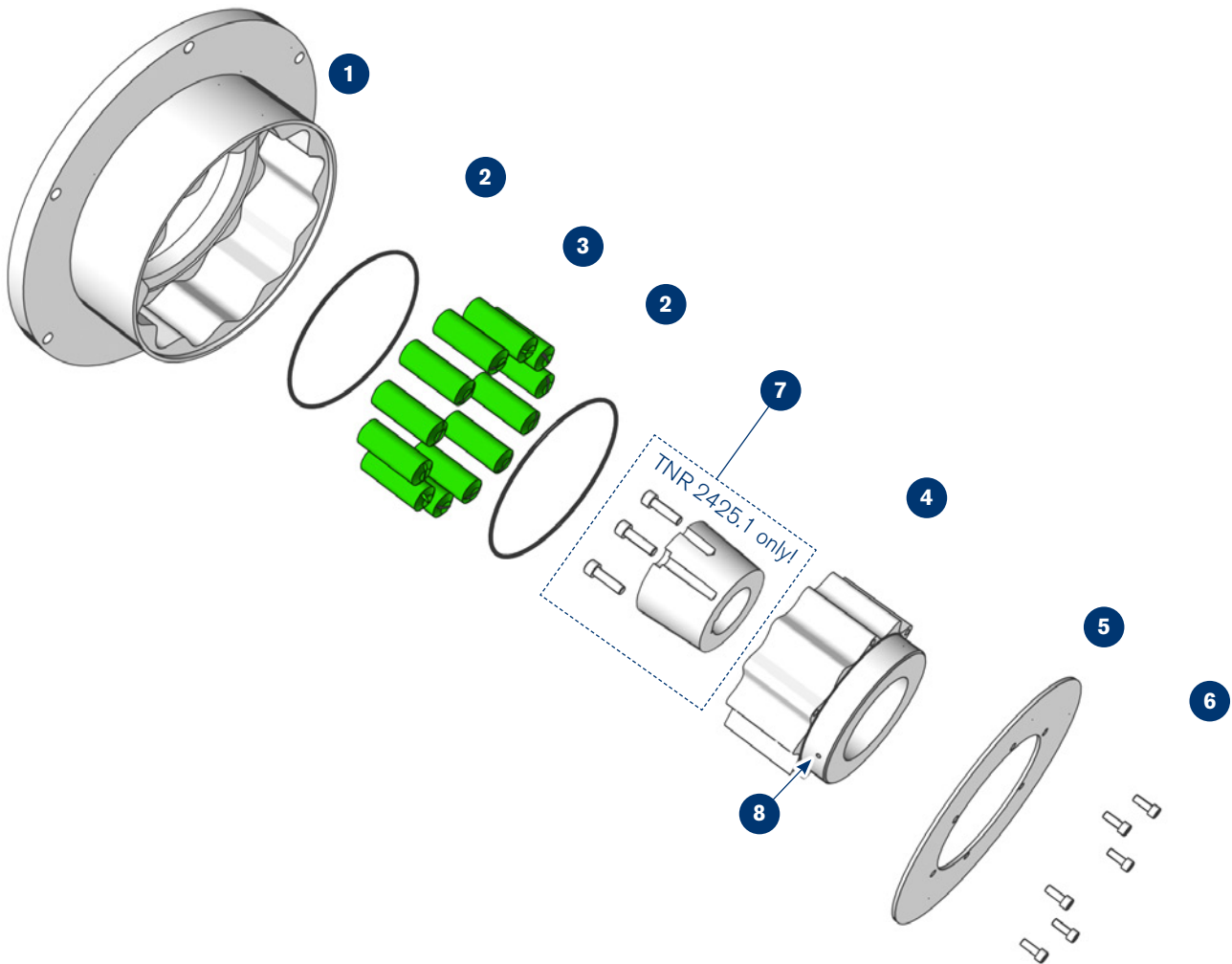
Only double-row



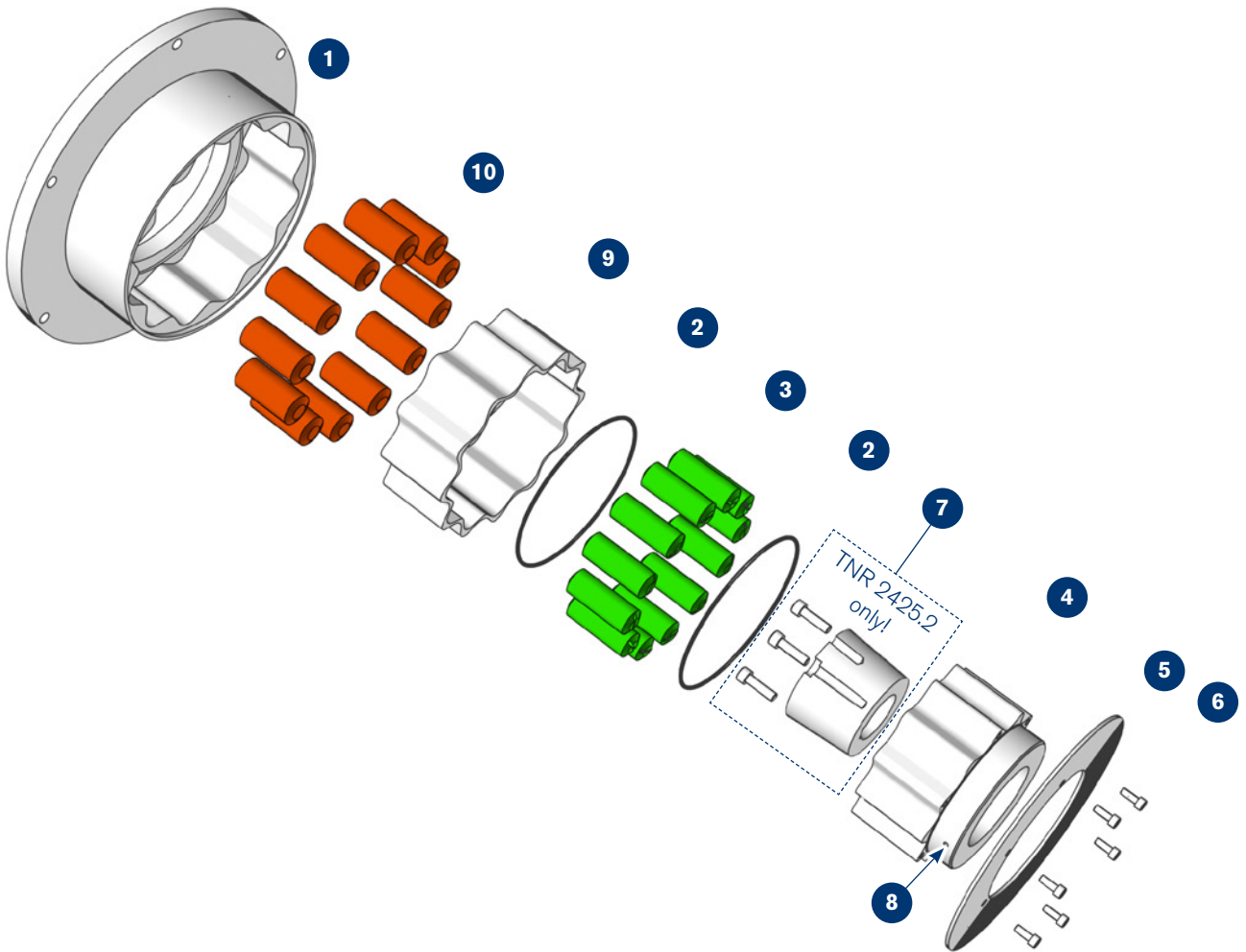
Dispose



No new ring needed!



Position	Part	No. / (remarks)
1	SAE flange + outer coupling sleeve	1+1 (assembled)
2	O-ring (fitting-aid)	2 x (used only for assembling)
3	Elastic buffer	12 x
4	Hub	1 x (driven side / provided for taper bush.)
5	Cover	1 x (retaining buffers)
6	Socket head screw	6 x (for fixing of cover on hub)
7	Taper lock-bushing (TNR 2425.1 only!)	1 x (bushing + screws; supplied by customer)
8	(Set-screw)	(1 x) (on demand)



Position	Part	No. / (remarks)
1	SAE flange + outer coupling sleeve	1+1 (assembled)
2	O-ring (fitting-aid)	2 x (used only for assembling)
3	Elastic buffer	12 x (inner-side)
4	Hub	1 x (driven side / provided for taper bush.)
5	Cover	1 x (retaining buffers)
6	Socket head screw	6 x (for fixing of cover on hub)
7	Taper lock-bushing (TNR 2425.2 only!)	1 x (bushing + screws; supplied by customer)
8	(Set-screw)	(1 x) (on demand)
9	Buffer-link	1 x (intermediate-ring)
10	Elastic buffer	12 x (outer-side)



Danger of injuries!

- Disconnect the drive before carrying out any work on the coupling! Secure the drive against unintentional re-start and rotation! Incorrectly tightened bolts can cause serious personal injuries and property damages!
- Assemble the coupling outside of the danger zone. Take care that suitable transportation means are at disposal and that the transportation ways are free of obstacles. Do not use tools which cause sparks when mounting the parts in explosive areas!
- In compliance with accident prevention regulations, you are obliged to protect all freely rotating parts by means of permanently installed guards/covers (with ventilation holes) against unintentional contact and falling down objects.
- To avoid sparks, the protective guards for couplings used in explosive atmospheres should be made of stainless steel!
- As a minimum, the guards have to fulfil the requirements of protection type IP2X.
- The covers have to be designed to prevent dust from depositing on the coupling.
- The cover must not contact the coupling or impair the proper function of the coupling.
- Make sure that speed, torque and ambient temperatures will not exceed permitted values (see current Product Paper & Tech Paper "Torsional Highflex Couplings" and/or released assembly drawings).
- The maximum permissible bore diameters must not be exceeded.
- Check whether the shaft-hub connections safely transmit the occurring operating torques.
- The standard tolerance of RINGFEDER® for finish bores is fit H7.
- Keyways comply with ISO-standards, if not otherwise stated.
- Check the dimensions and tolerances of shafts, hub bores, keys and keyways.
- Set screws as required.



- The specific technical data refer only to the actual coupling! It is part of the users responsibility to ascertain that the components, in particular the SAE screw-connections, the dimensioning of shaft and key connections are designed with sufficient safety margins with respect to its transferable torque.
- If necessary, additional measures have to be implemented.



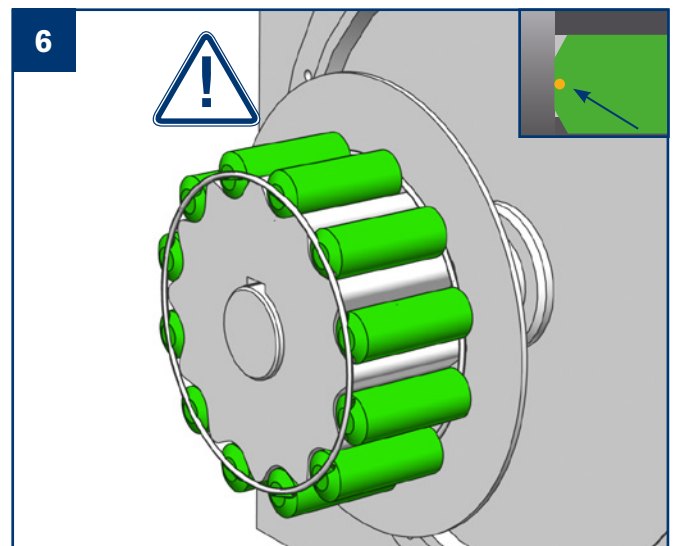
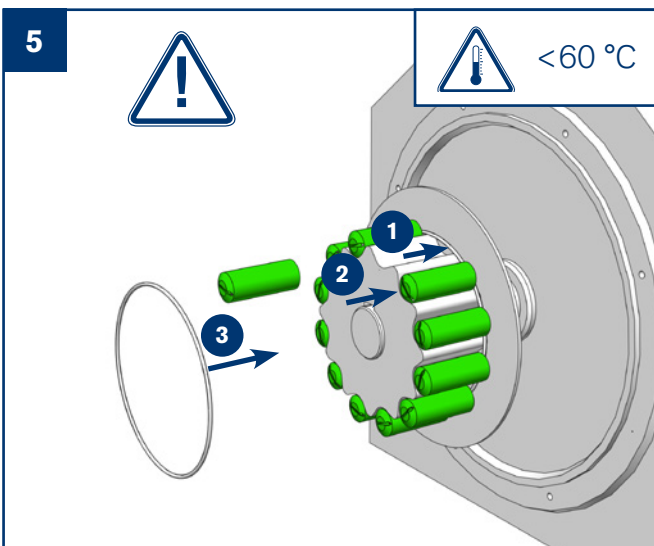
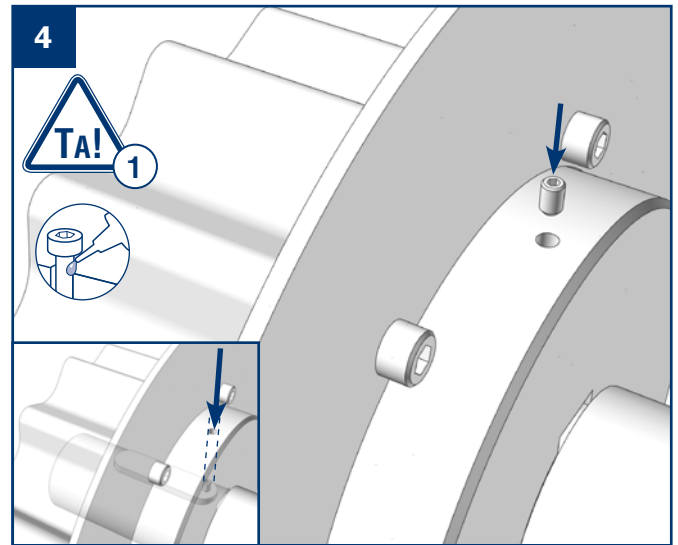
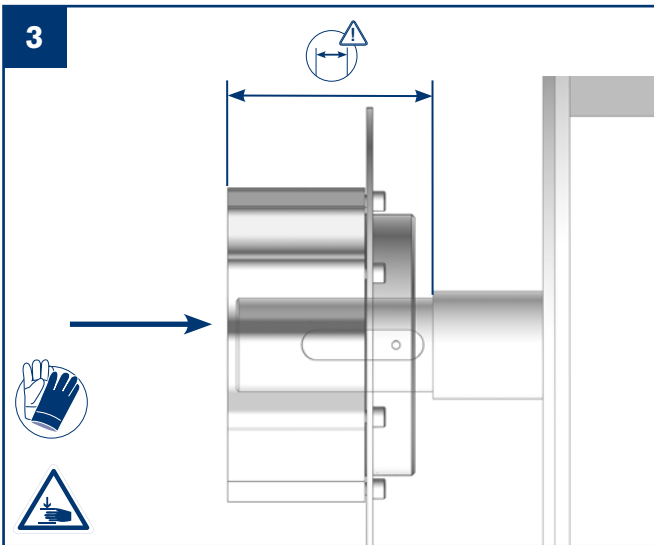
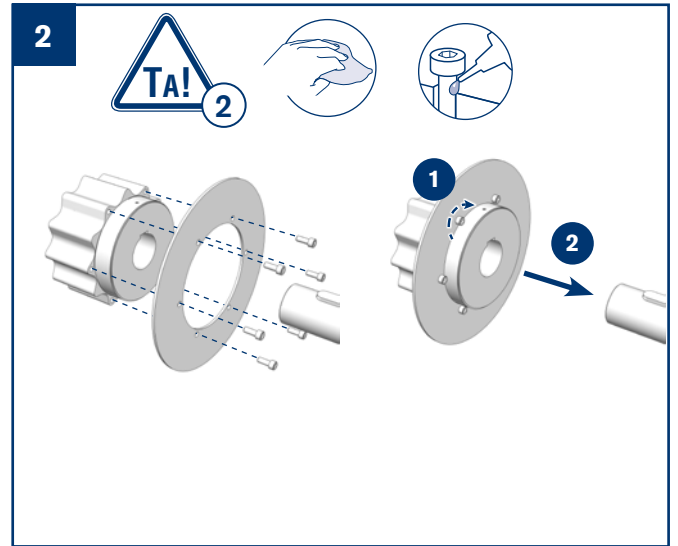
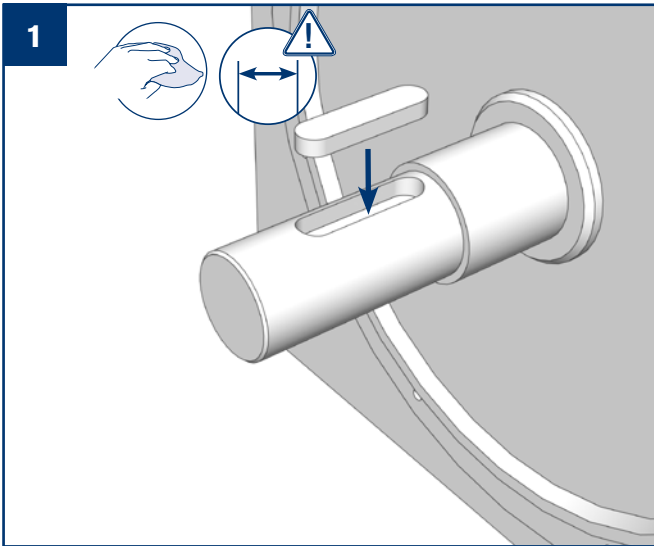
Set-screw DIN 916	M5	M6	M8	M10	M12	M16	M20
TA1 [Nm]	3	4	8	15	25	70	130

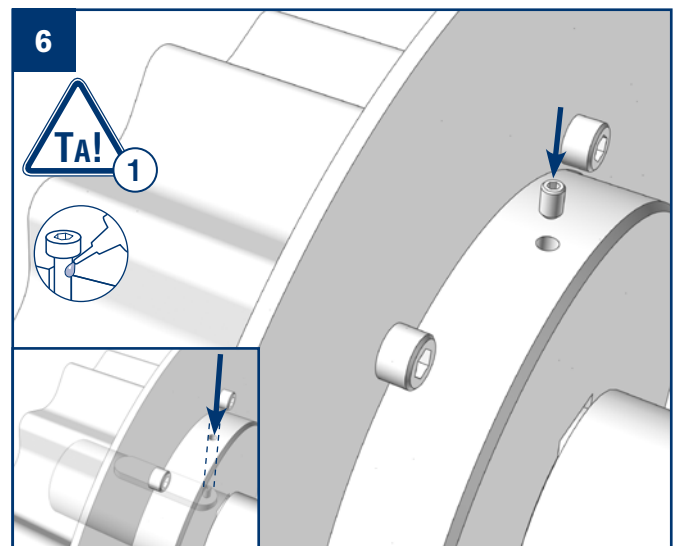
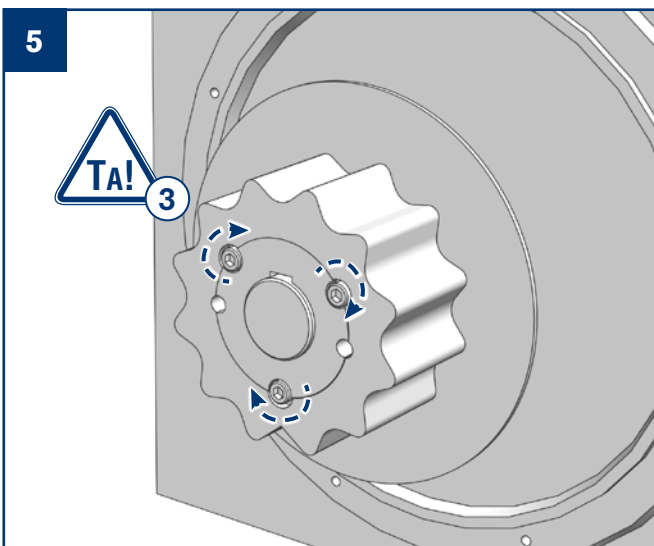
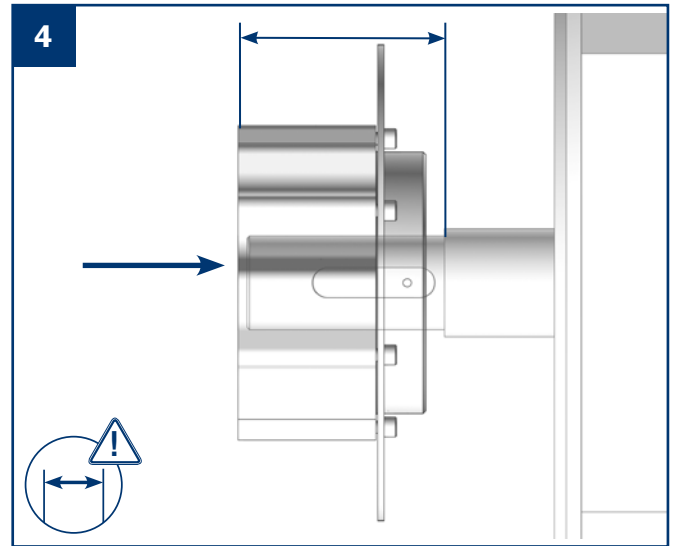
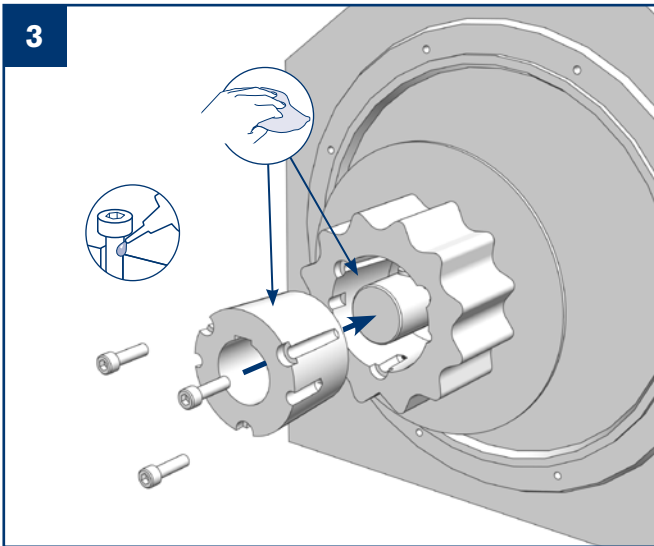
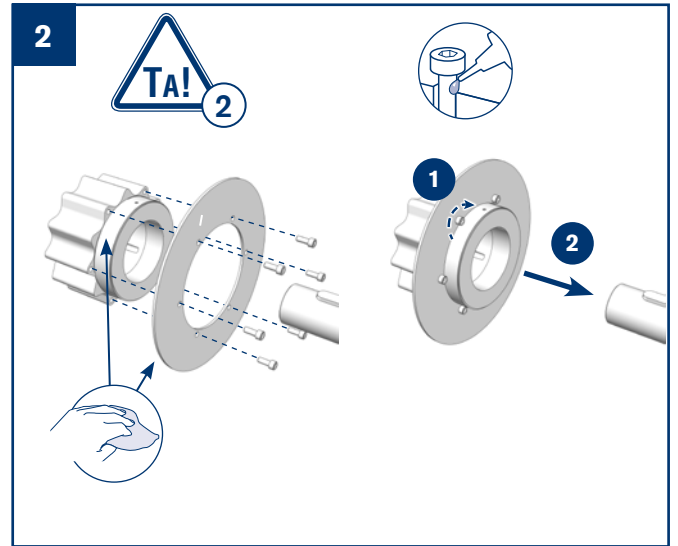
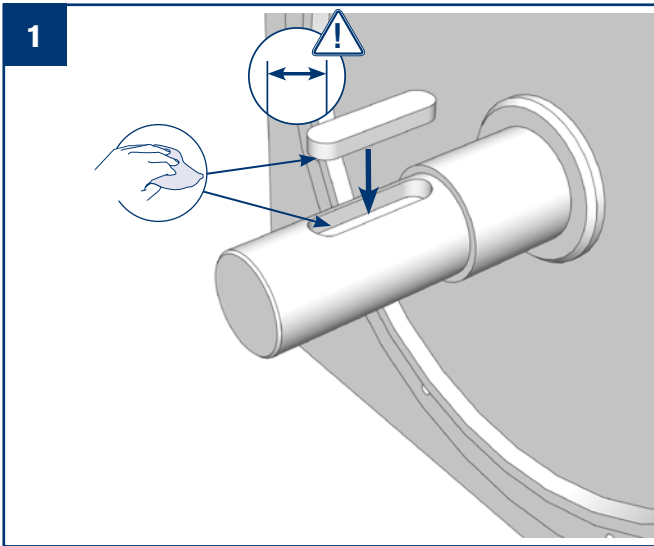


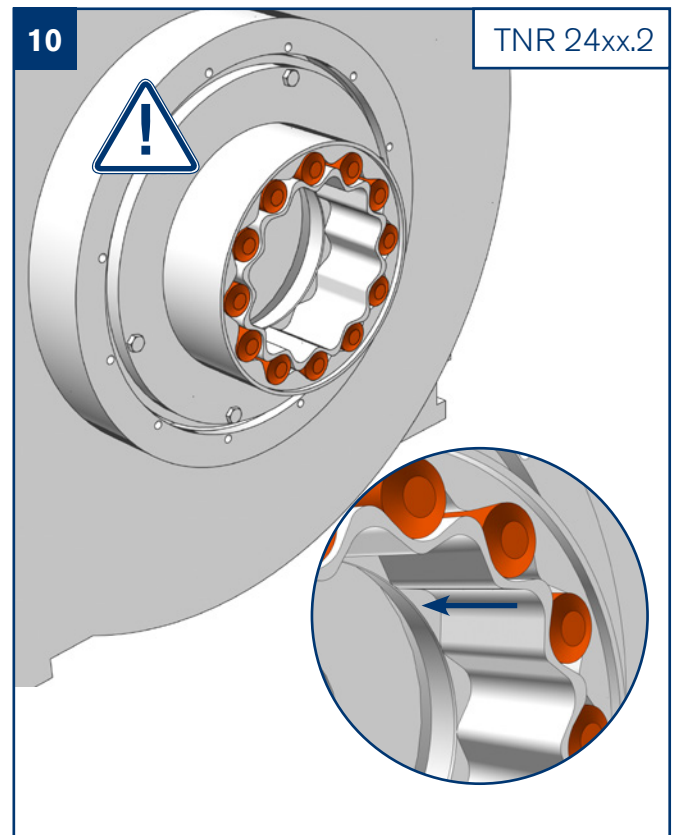
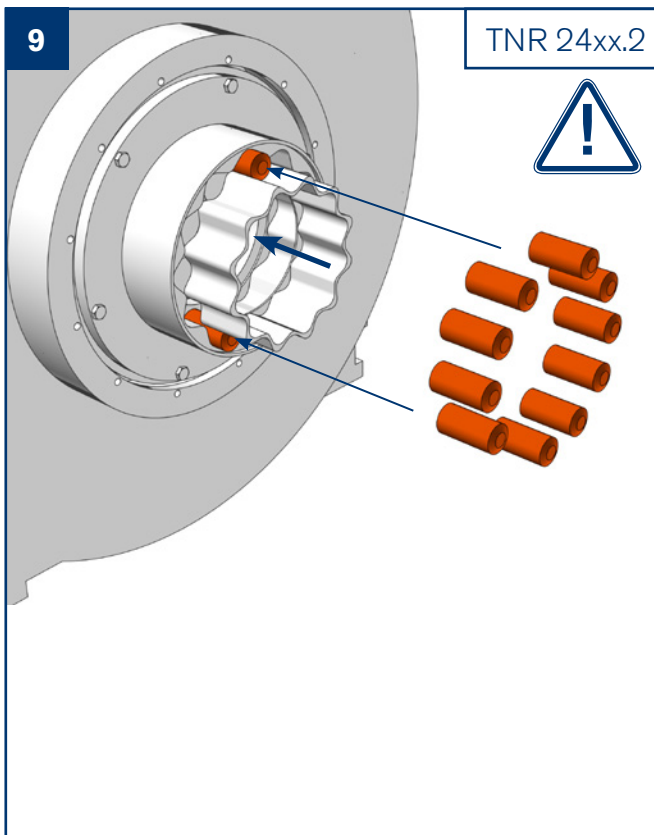
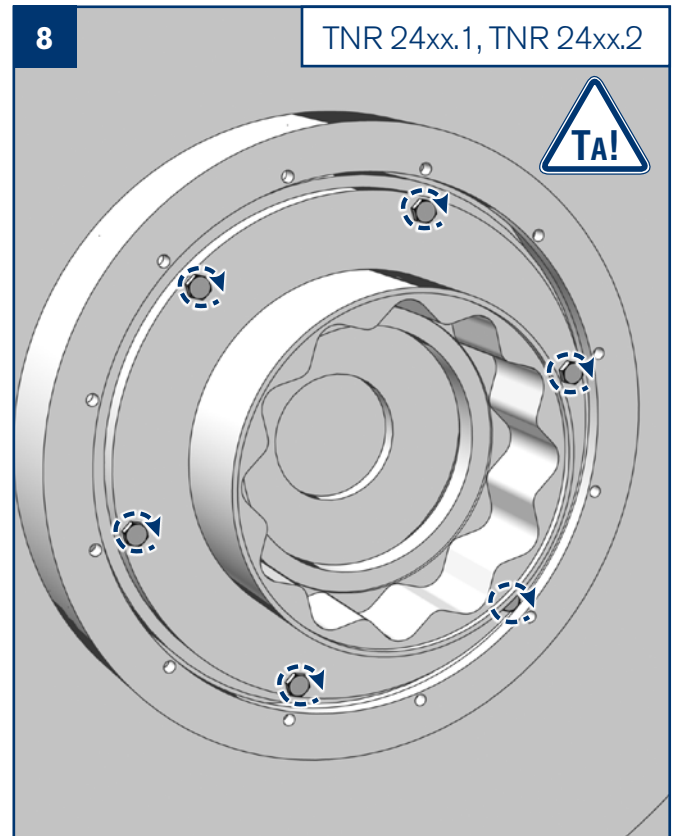
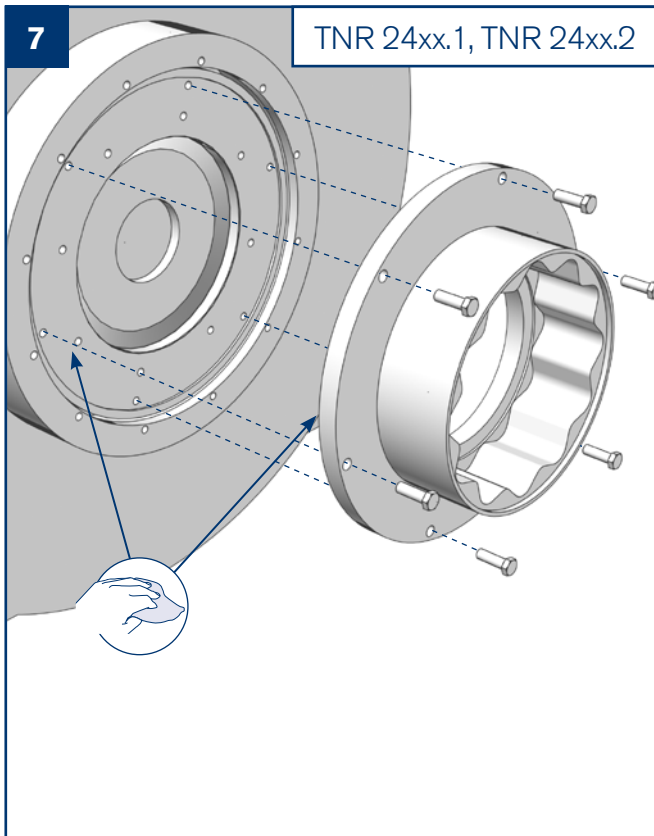
Cover-screws Grade 8.8	M5	M6	M8	M10	M12	M16	xx
TA2 [Nm]	6	10	25	49	85	210	On request!



Tapper-screws	1615	2012	2517	3020	3525	3535	4040	5050	xx
TA3 [Nm]	19,9	31,8	48,8	90,8	114	114	193	352	On request!

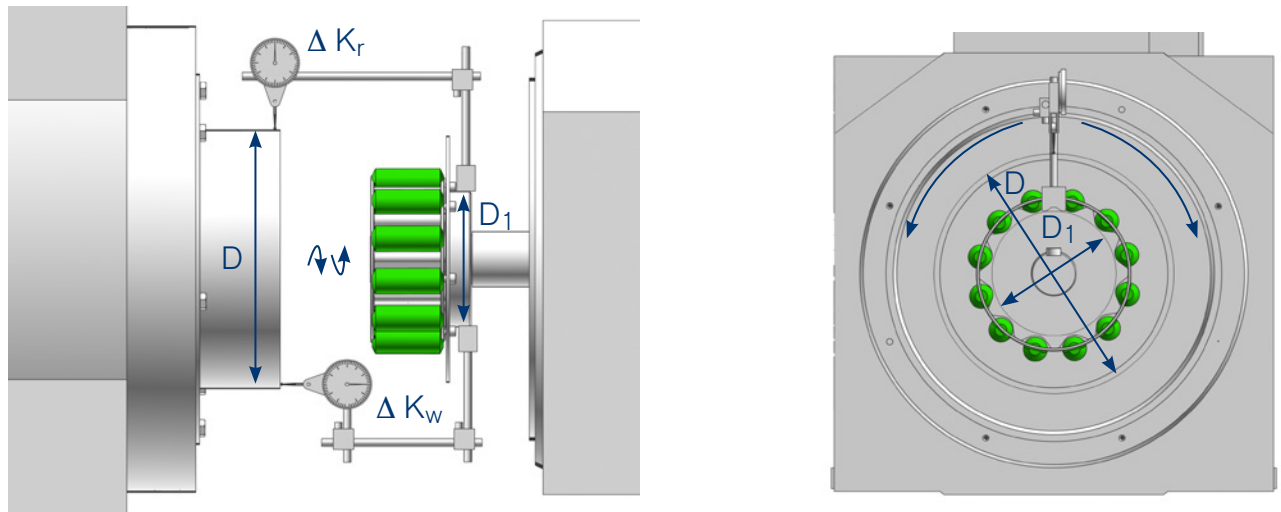








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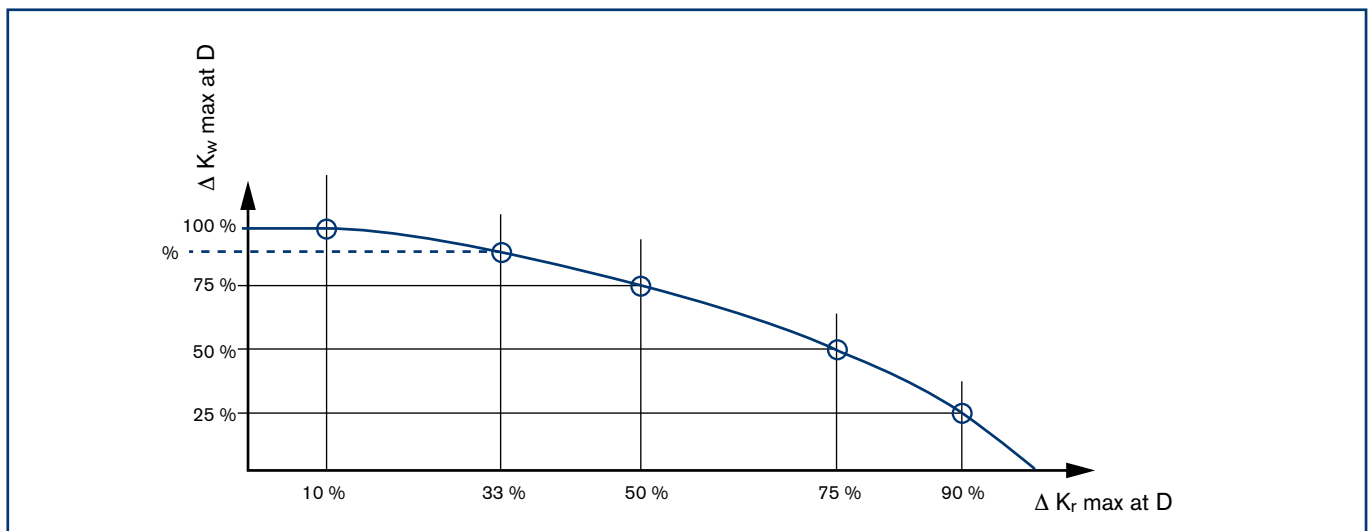
If not otherwise specified in order-related technical documents!

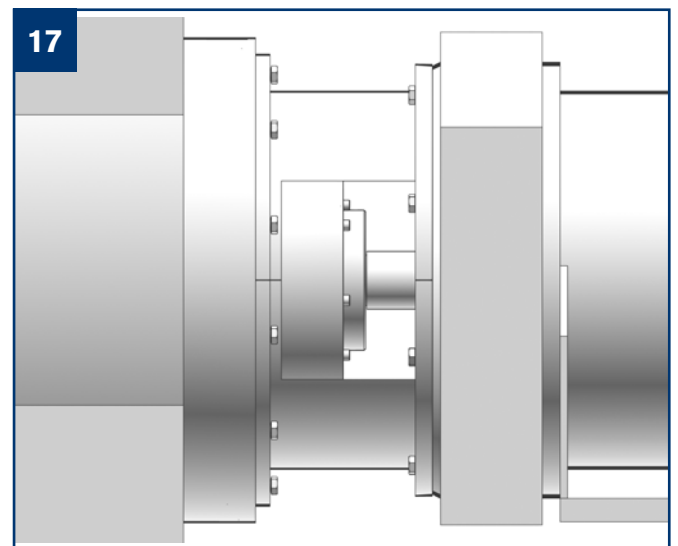
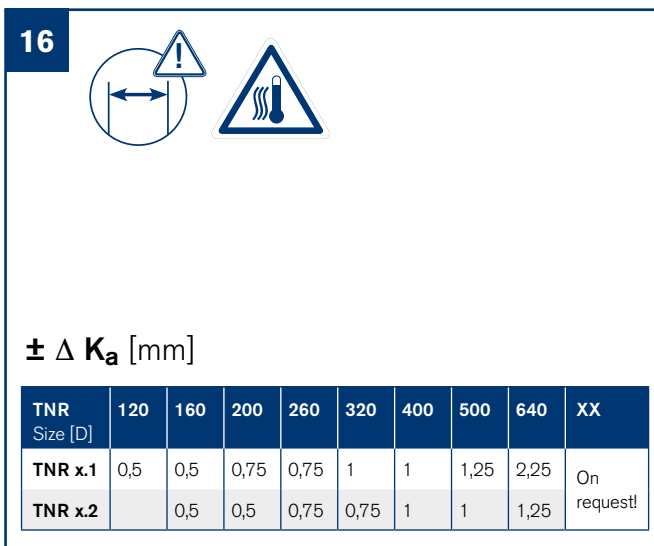
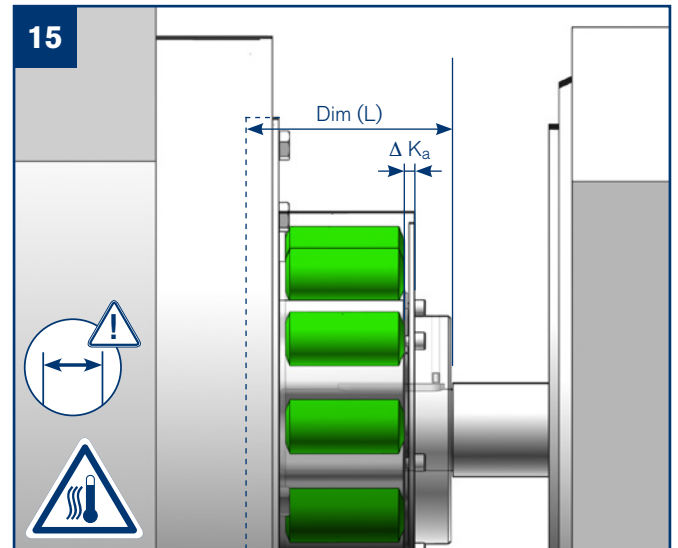
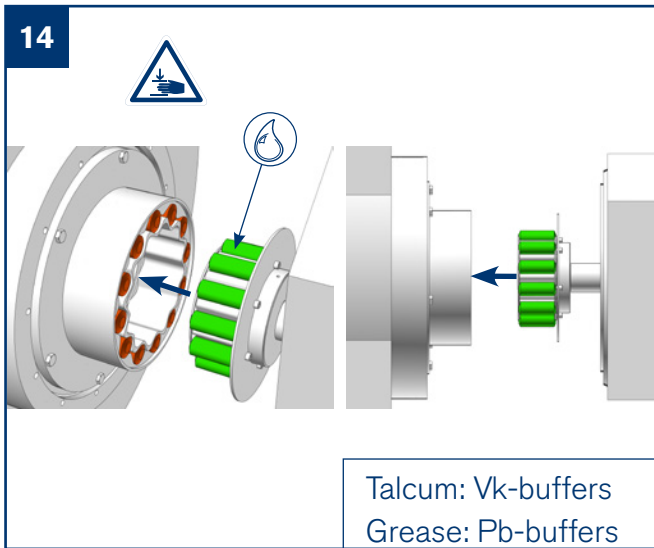
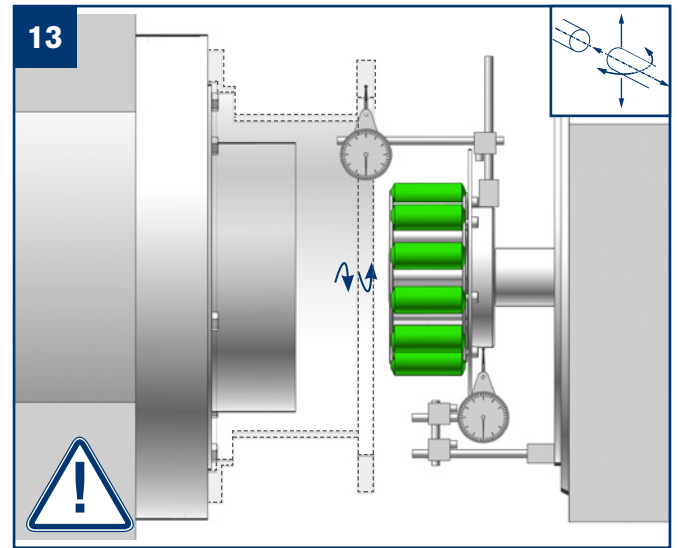
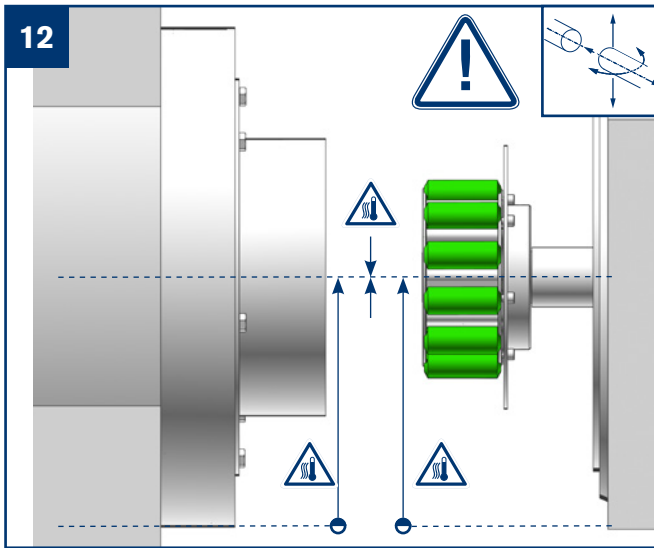
Max. misalignment values (assembling condition)*

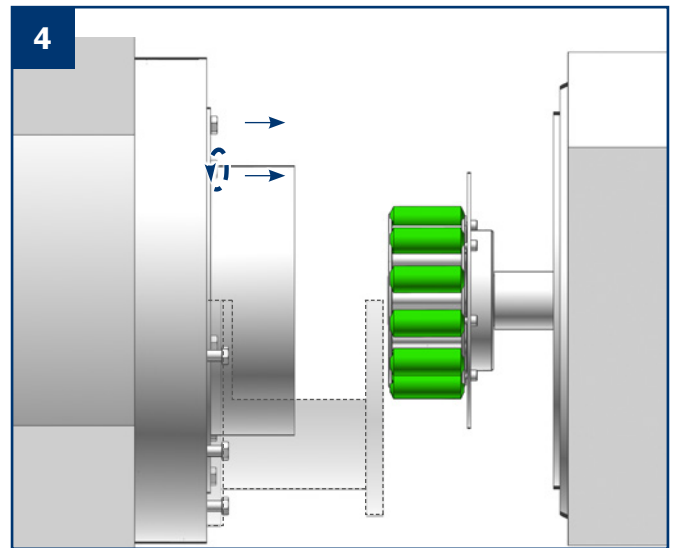
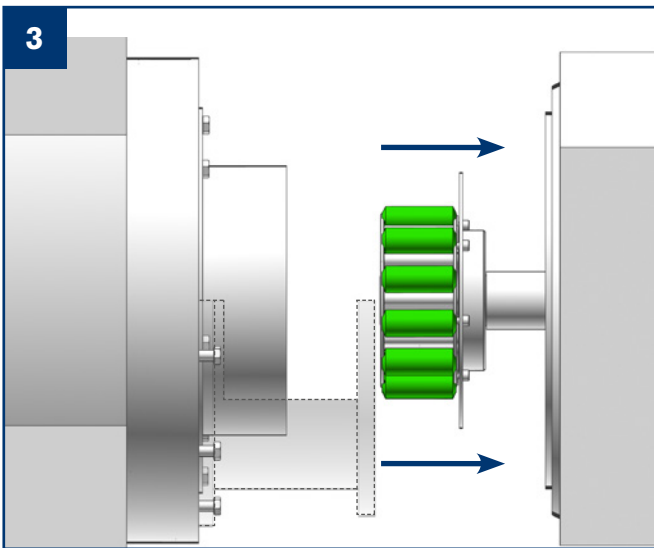
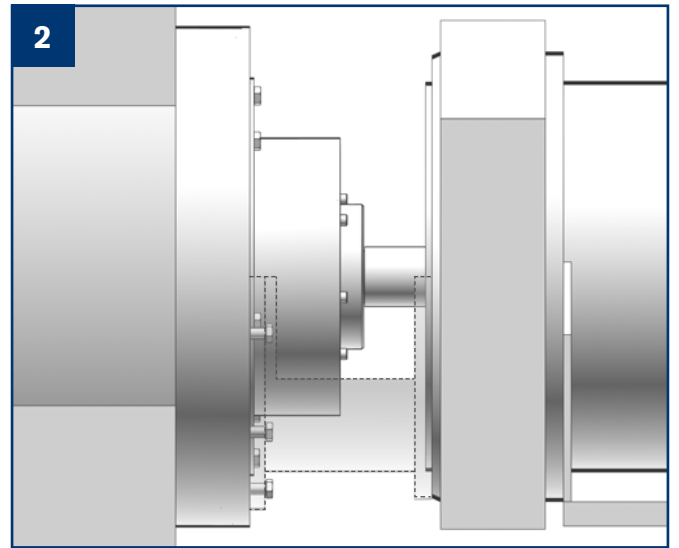
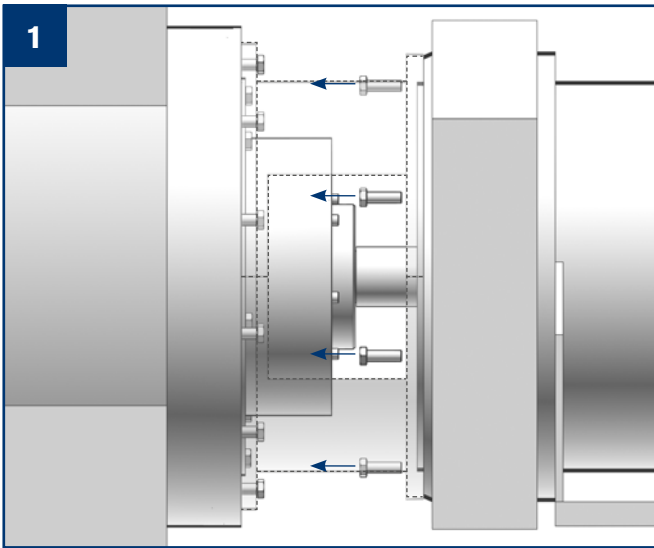
TNR size (D)	120	160	200	260	320	400	500	640	XX
ΔK_r max at D [mm]	0,2	0,25	0,25	0,3	0,4	0,5	0,6	0,8	On request!
ΔK_w max at D [mm]	0,52	0,68	0,86	1,1	1,3	1,7	2,1	2,8	On request!

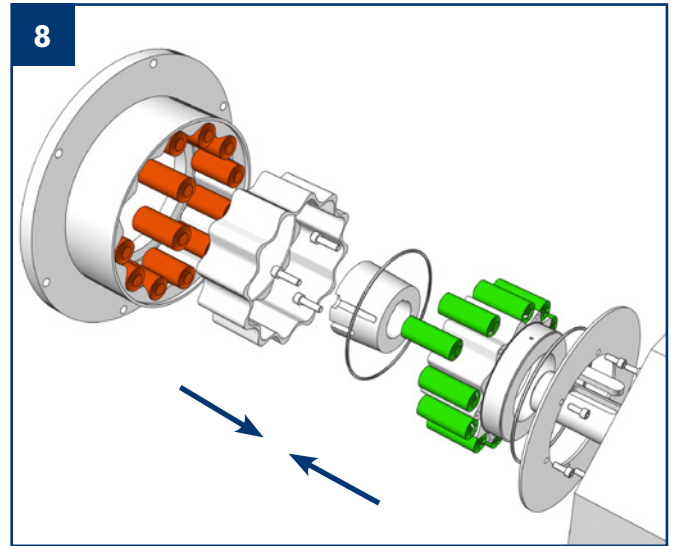
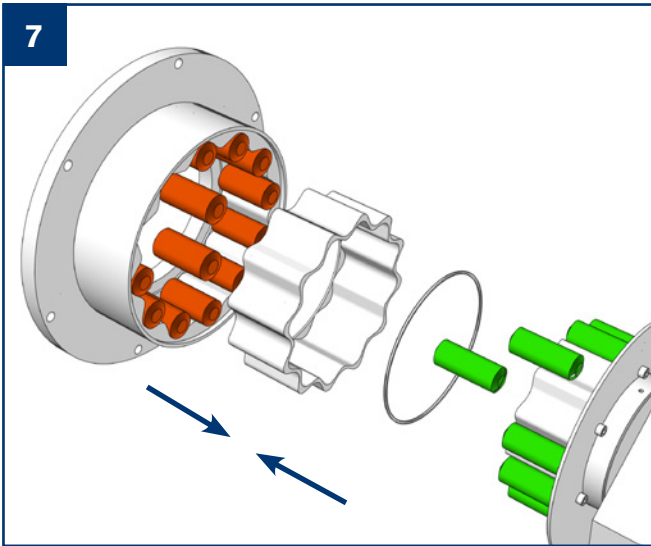
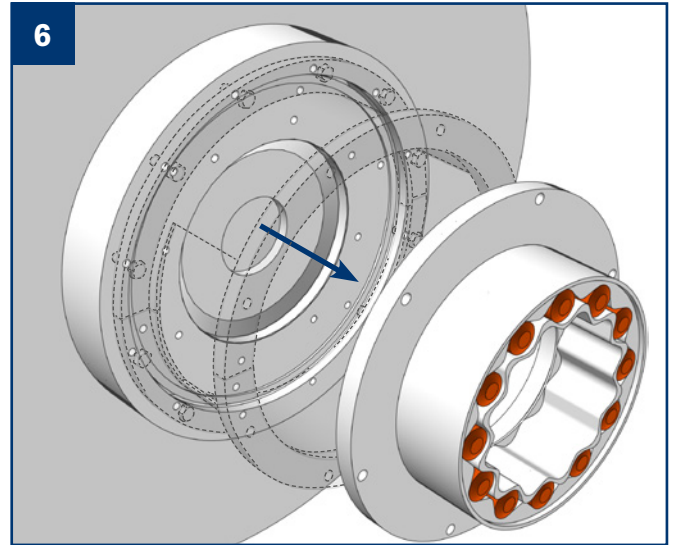
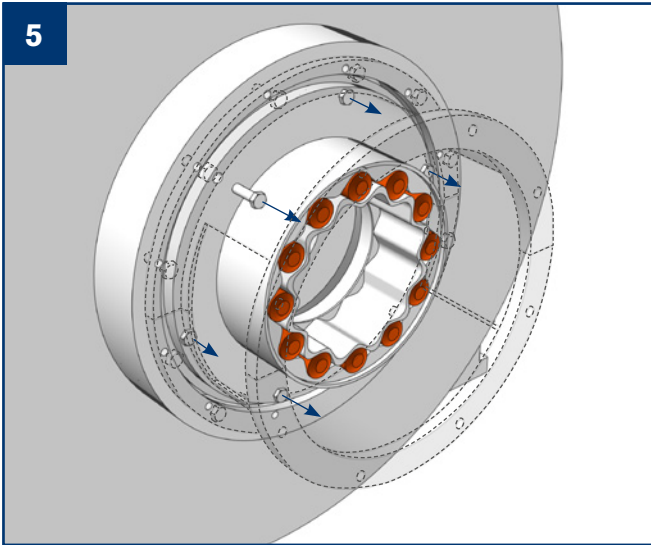
* Permitted max. values in running condition: multiply values x 2

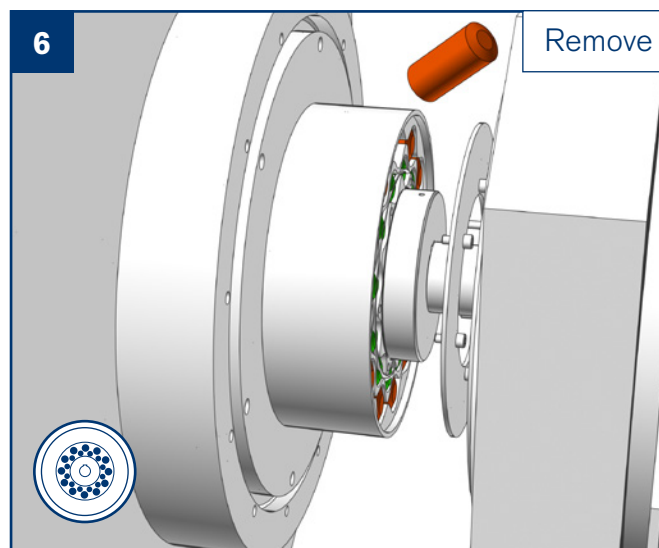
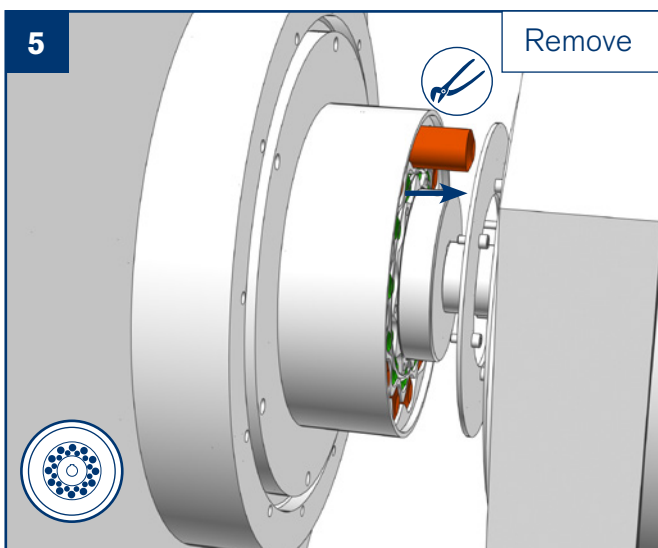
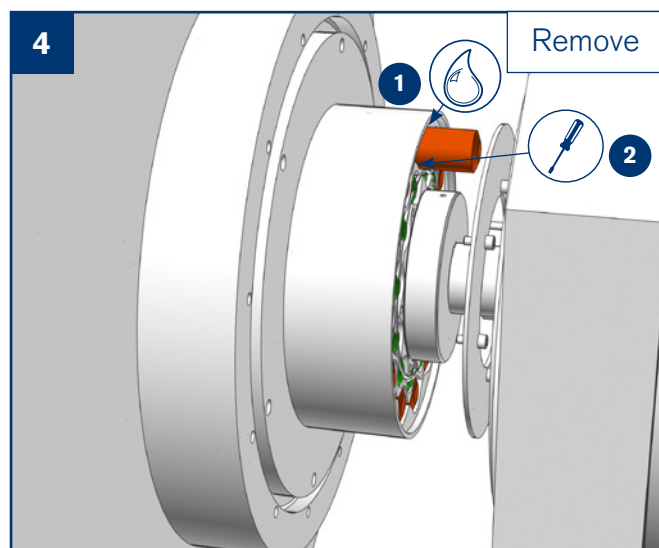
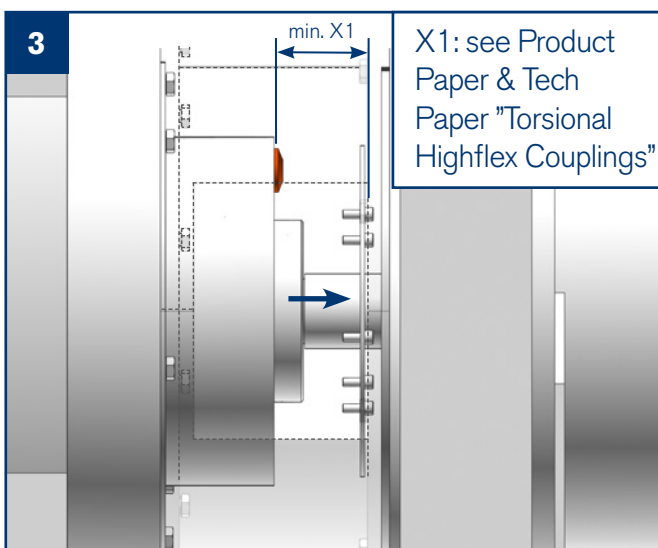
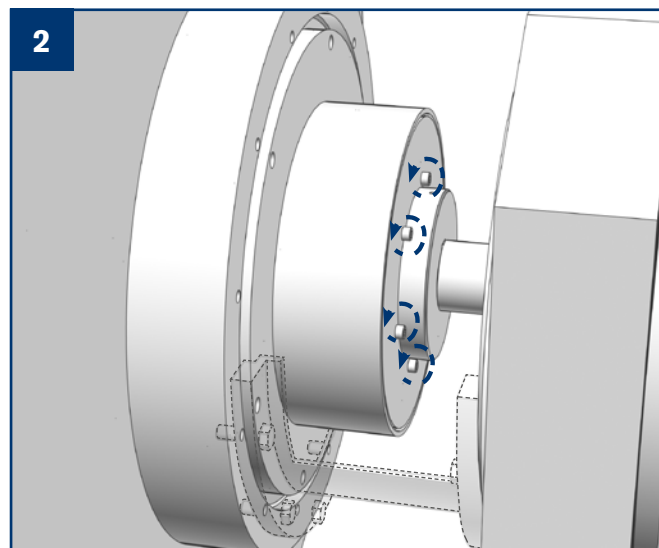
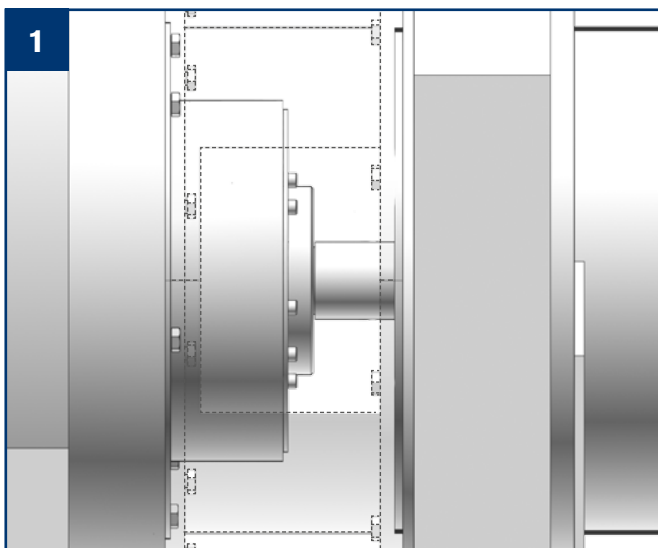
$\Delta K_w / \Delta K_r$ - permissible misalignment characteristic

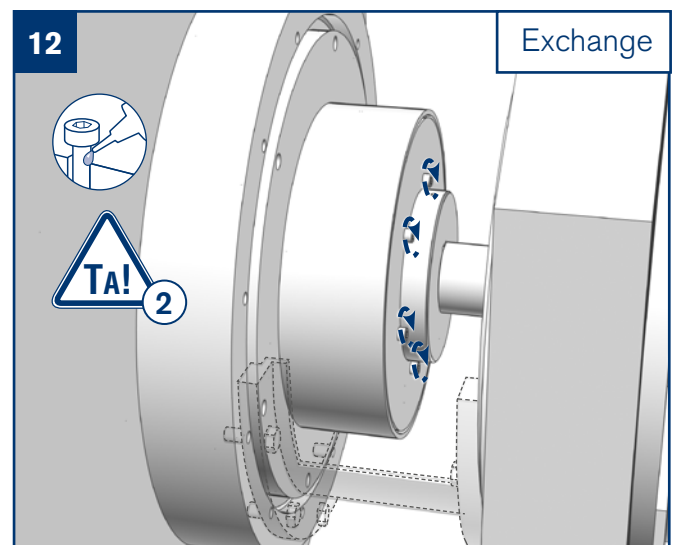
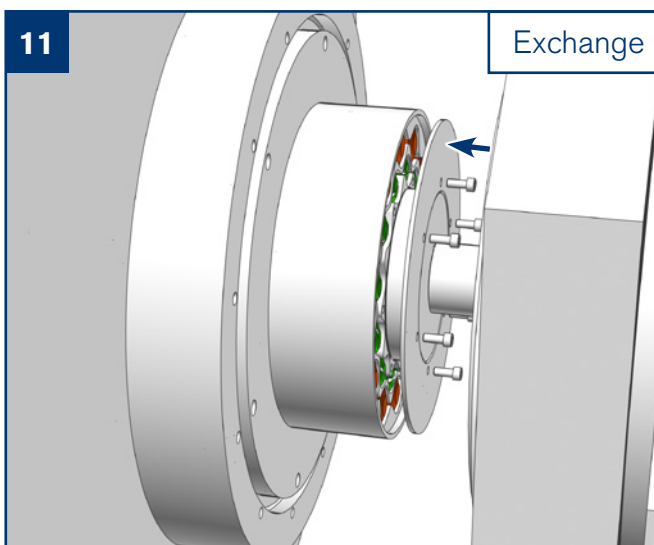
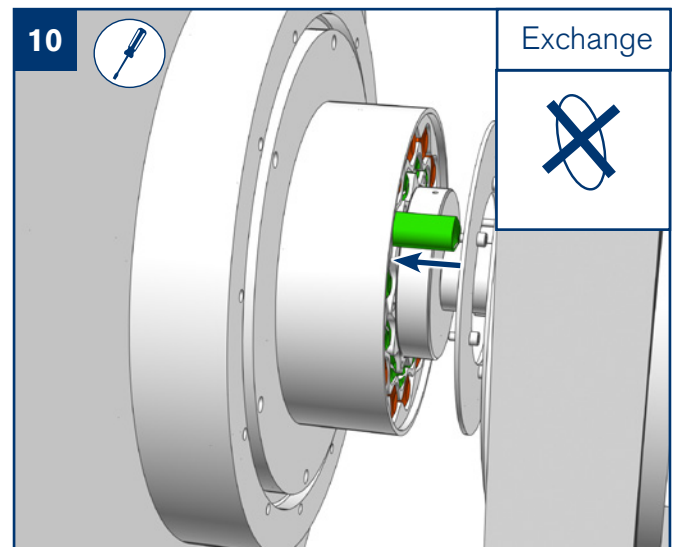
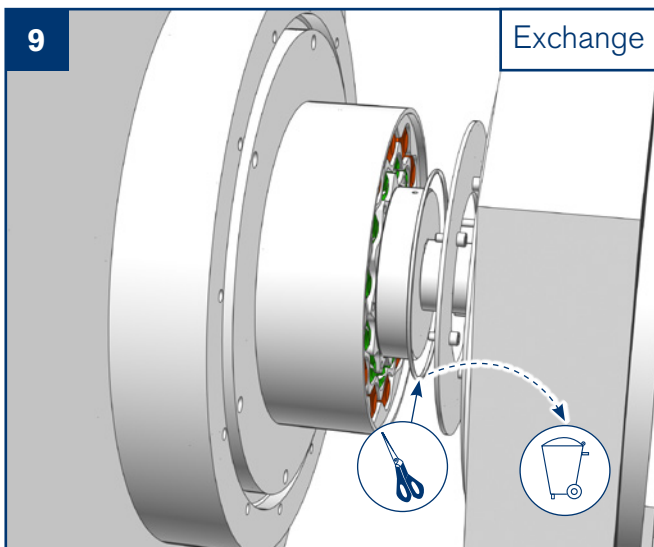
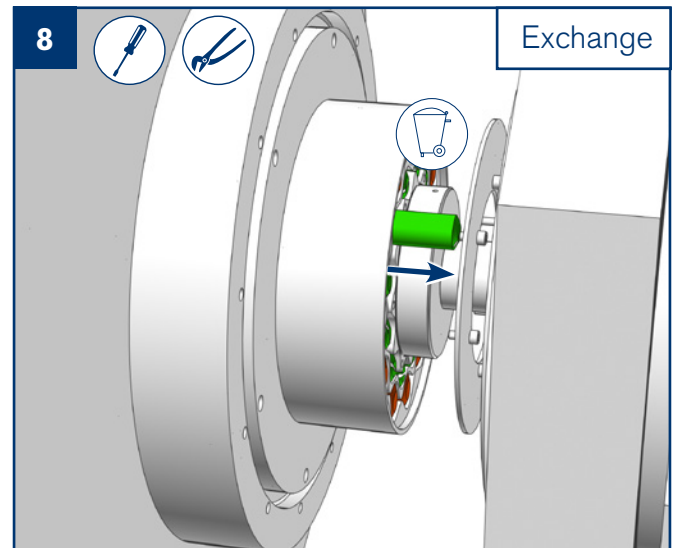
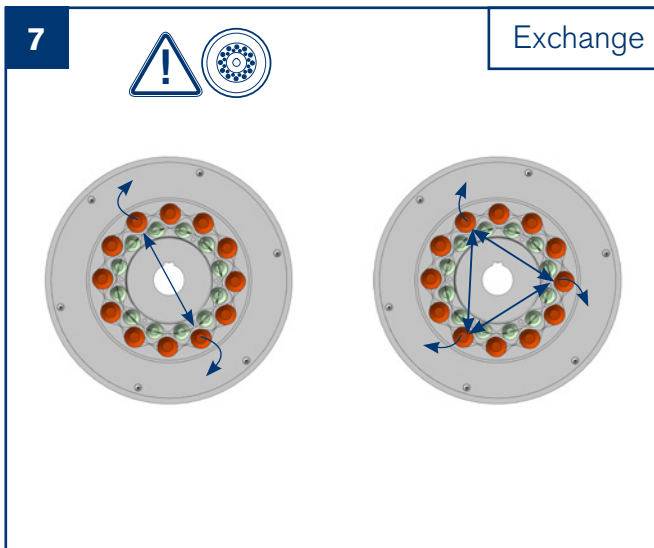












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