

Sealing Systems SW, ZW, ZWX

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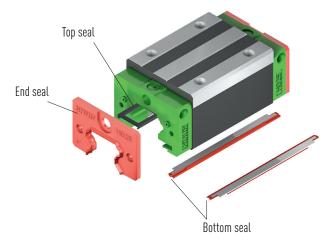
Note:

The technical data in this catalog may be changed without prior notice.

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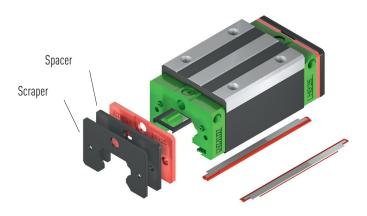
1. Sealing systems SW, ZW, ZWX



Sealing system SW: End seal with double s

End seal with double sealing lip, optimized bottom seal, additional top seal.

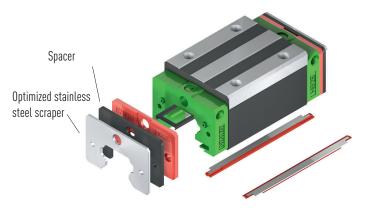
Fig. 1: Exploded view of the sealing system ZWX



Sealing system ZW:

End seal with double sealing lip, optimized bottom seal, additional top seal, scraper (air gap approximately 0.4 – 0.5 mm).

Fig. 2: Exploded view of the sealing system ZW



Sealing system ZWX: End seal with double sea

End seal with double sealing lip, optimized bottom seal, additional top seal, optimized stainless steel scraper (air gap approximately 0.1 – 0.2 mm)

Fig. 3: Exploded view of the sealing system SW



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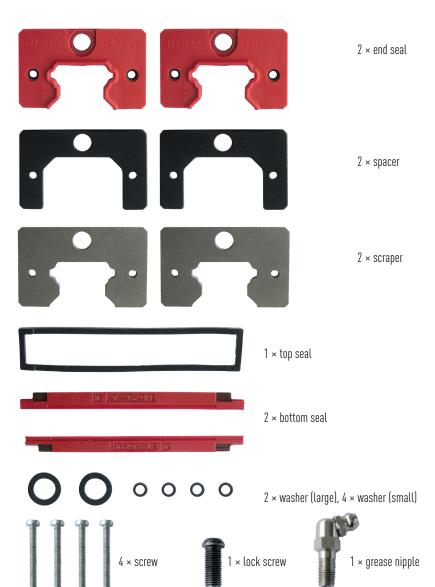
2. Extension kit ZWX - parts list

On the following illustrations you see items of the expansion kit ZWX for the HG series, size 25. Depending on the series, the size and the sealing system, a different number of individual components is required.

Currently, the additional top seal and the optimized bottom seal are not yet available for all sizes. For these sizes the standard bottom seal has to be used.



 $1 \times HG$ block with standard sealing system SS



Sealing Systems SW, ZW, ZWX



3. Tools needed for assembly



- Cross tip screwdriver
- O Allen key SW4
- Open-end spanner SW9
- Spatula

Fig. 4: Needed tools

4. Disassembly of the standard seal system







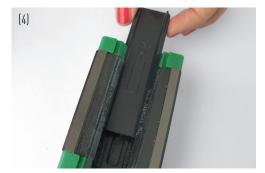


Fig. 5: Removing of the standard sealing system SS

- O Disassemble the lock screw on both sides of the block with the Allen key; remove the other screws with the cross tip screwdriver (1)
- Take off the end seals (2)
- O Remove the bottom seals on both sides (3)
- Remove the mounting help (4)



5. Assembly of the sealing systems SW, ZW und ZWX

Step 1: Place the top seal with its smooth side downwards in the block (see also explosion view, page 3).

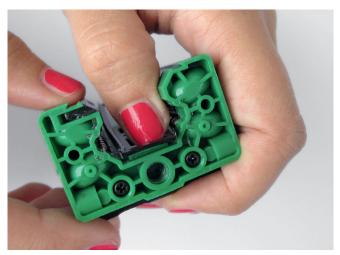


Fig. 6: Placing of the top seal

Step 2: First, fit both front ends of the top seal into the provided slots at the open sides of the block, then push them down. The seal has to be flush with the block.

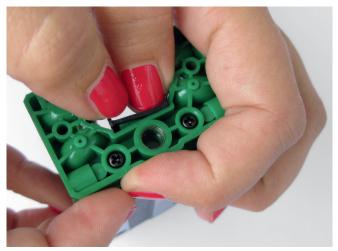


Fig. 7: Positioning of the top seal

Step 3: Then use the spatula to press the seal firmly into the provided groove. For this purpose, it is advisable to place the spatula on the small indentation of the seal.

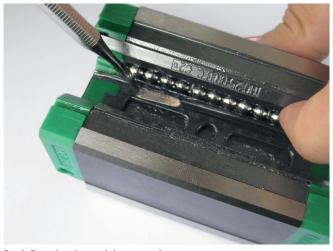
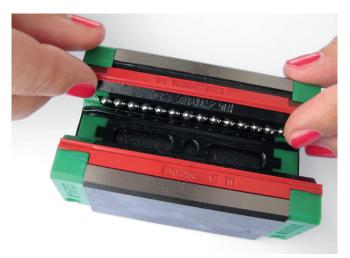


Fig. 8: Pressing down of the top seal





Step 4: Position the bottom seals into the provided groove, so that the writing faces outwards. The sealing lips each are directed towards the inner side of the block.

Fig. 9: Fixing of the bottom seals

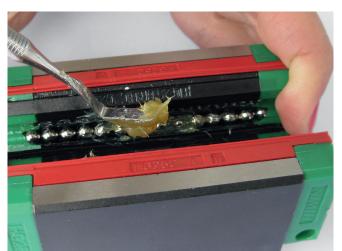
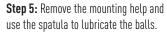


Fig. 10: Lubrication of the balls



This step is not necessary, if a grease nipple will be mounted later.



Fig. 11: Reinstalling of the mounting help

Step 6: Be careful while putting back the mounting help to prevent balls from falling out of the block.



Step 7: Place the end seal on the block.



Fig. 12: Placing of the end seal

Step 8: Place one of the big washers and two of the small ones in the given notches.

With the sealing system SW step 8 is omitted.



Fig. 13: Positioning of the washers

Step 9: Place the spacer on the block.

With the sealing system SW step 9 is omitted.



Fig. 14: Positioning of the spacer





Step 10: Place the scraper on the block

With the sealing system SW step 10 is omitted.

Fig. 15: **Positioning of the scraper**



Step 11: Fix the complete sealing system with the screws, but be careful NOT to tighten them yet. Otherwise the mounting of the block on the rail will not be possible.

Please repeat steps 6 to 10 on the other side of the block.

Fig. 16: Slight tightening of the screws

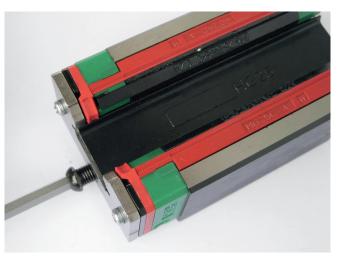


Fig. 17: Slight tightening of the lock screw

Step 12: On one side slightly tighten the lock screw



Step 13: Take the open-end spanner to preassemble the grease nipple on the other side of the block – again it must not be too tight.

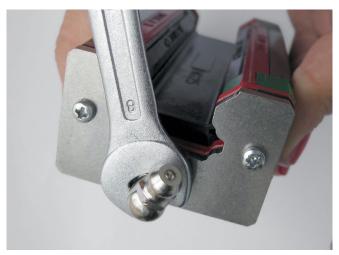


Fig. 18: Preassembling of the grease nipple

Step 14: To mount the block onto the rail, first place the block with the mounting help exactly face to face with the rail. Then carefully move the block onto the rail, until it is positioned on the rail completely.



Fig. 19: Moving of the block onto the rail

Step 15: Shift the parts of the sealing system until the block runs smoothly and without distractions on the rail.

Then tighten the screws, the lock screw and the grease nipple. To tighten the grease nipple, move the block towards the end of the rail, so that it can rotate freely, then tighten it with the open-end spanner.

If the block has not been lubricated in step 5, lubricate it now with the grease nipple. Move the block a few times back and forth along the rail to make sure that the balls are lubricated evenly.

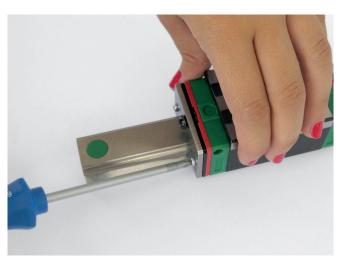


Fig. 20: Tightening of the screws





Fig. 21: Block of the HG series with the completely assembled sealing system ZWX



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Ballscrews



Linear Motor Systems



Linear Axes with Ballscrews



Linear Actuators



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