

# DSI GUIDE

## Renovation of a station cylinder for HS Plate Freezer

The below spare parts and tools is needed for renovating a station cylinder. A complete sealing/guide rings kit and special tools can be ordered at DSI.

**NOTE:** It is also possible to order the outside O-ring for the cylinder top separately (spare part no. 65208-100-O-RING).

- Complete sealing/guide rings kit (spare part no. 65208-100-PAK)
- Tightening tool
- Cylinder holder for bench vice
- Torque wrench
- Ricinus-oil

**IMPORTANT:** Make sure that the work area is clean before starting the disassembly. Always lubricate stainless steel threads with Ricinus-oil doing the assembly (only use this type of oil).



Sealing/guide rings kit (spare part no. 65208-100-PAK)

1. Use the sealing/guide rings kit for renovating the station cylinder.

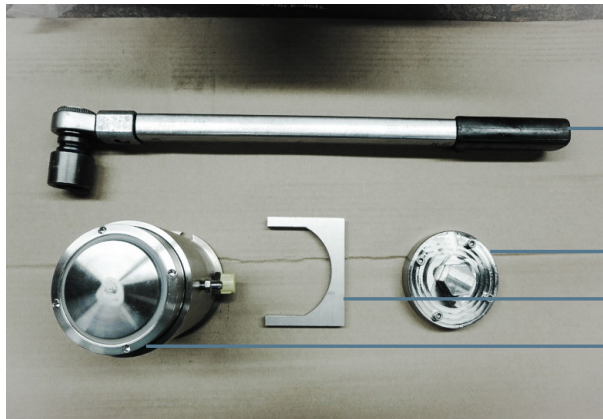
- Cylinder top outside O-ring
- Piston guide ring
- Scraper ring
- Cylinder top O-ring
- Cylinder top sealing rings
- Cylinder top guide rings



2. The sealing/guide rings kit consist of 8 parts.

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Torque wrench

Tightening tool

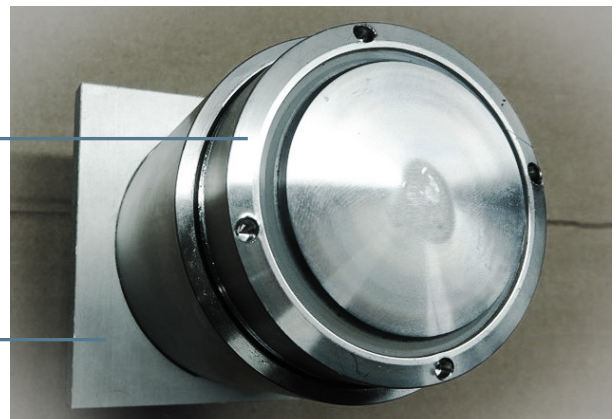
Cylinder holder for bench vice

Station cylinder

3. Make sure all tools and spare parts for the work is available before starting.

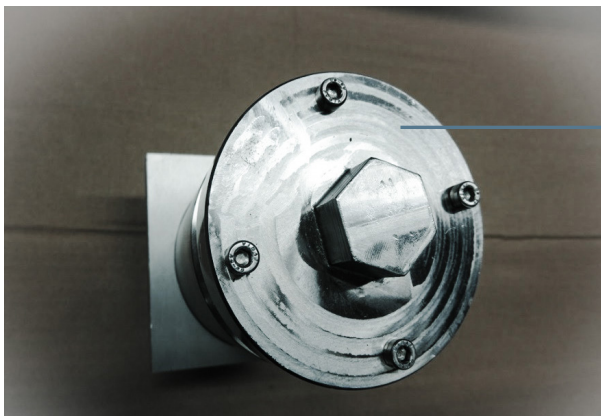
Station cylinder

Cylinder holder for bench vice



4. Mount the cylinder holder for bench vice at the station cylinder.

Tightening tool



5. Mount the tightening tool at the cylinder top.

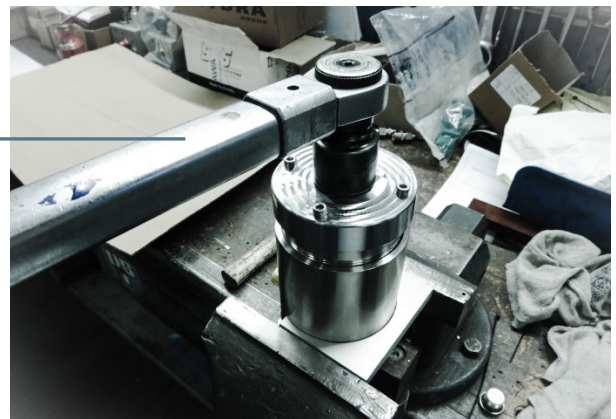
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Bench vice

6. Fix the station cylinder securely in a bench vice.



Socket wrench etc.

7. Use a socket wrench or similar tools for loosen the cylinder top.



Cylinder

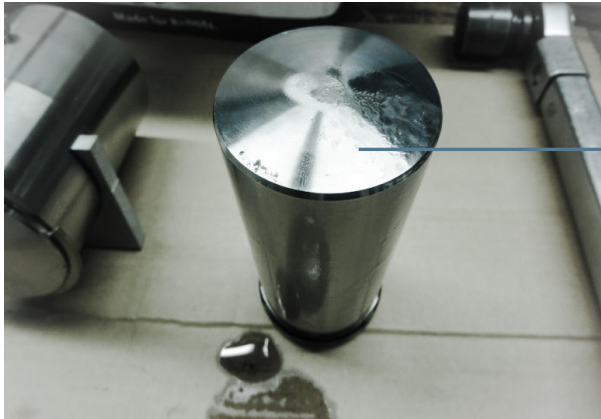
Piston

Cylinder top

8. When the cylinder is dismounted, press the piston out from the cylinder top carefully by hand.

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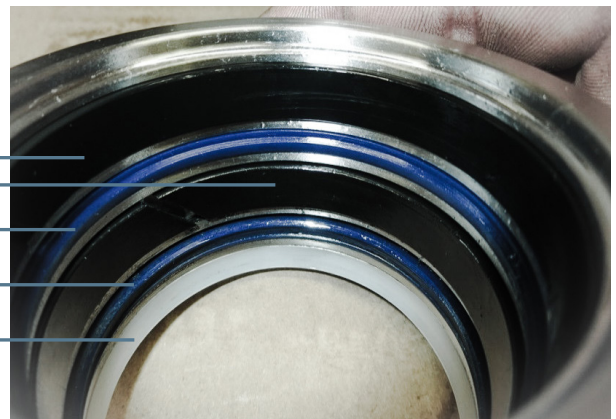
## Renovation of a station cylinder for HS Plate Freezer



Piston

9. Always check that the piston is not damaged and the surface is without scratches. Remove the old guide ring by hand.

Guide rings  
Sealing ring (small) + O-ring  
Sealing ring (large)  
Scraper ring



10. Remove the old rings in the cylinder top carefully, by using a nose pincers or similar suitable tool.



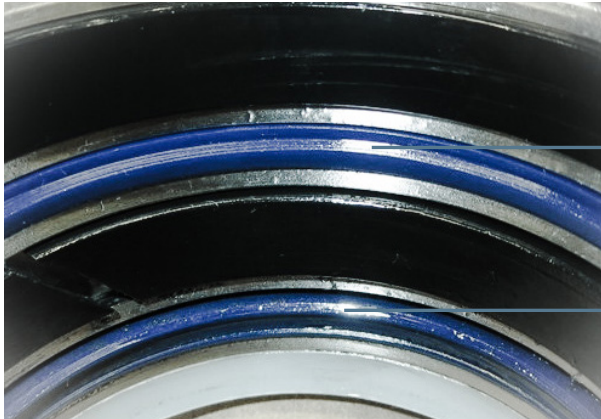
O-ring

11. Mount the new rings in the cylinder top carefully by hand. Remember to mount the O-ring behind the small sealing ring.



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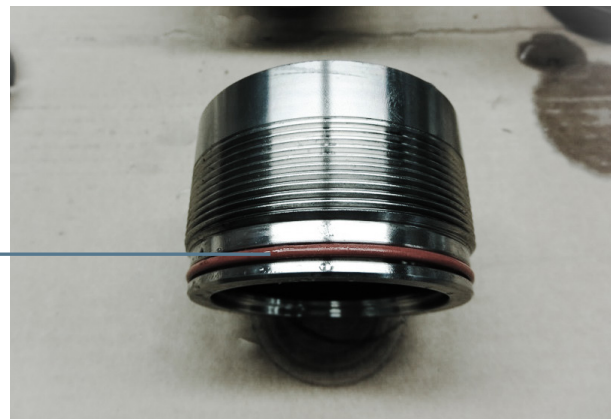
## Renovation of a station cylinder for HS Plate Freezer



Sealing ring (small)

Sealing ring (large)

**12.** Make sure that the direction of the sealing rings is correct.  
See the cross section drawing of the cylinder top in the end of this guide.



Outside O-ring

**13.** Mount the outside O-ring at the cylinder top by hand. This O-ring can also be ordered separately.



Guide ring

**14.** Mount the guide ring on the piston by hand.

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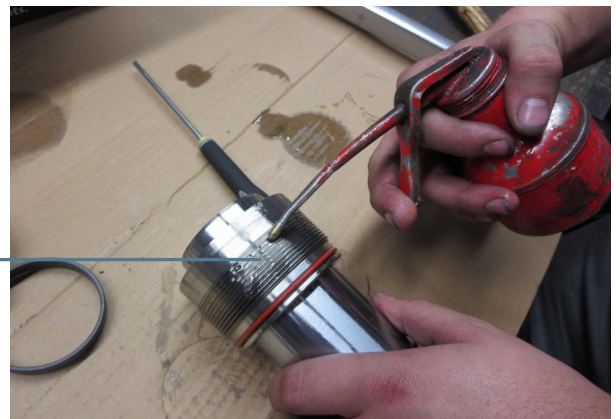


Piston

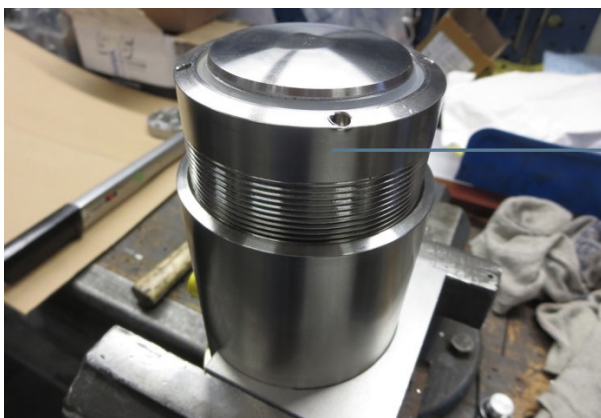
Cylinder top

**15.** Lubricate the piston with hydraulic oil, and then press the piston carefully by hand into the cylinder top.

Ricinus-oil



**16.** Always lubricate the thread at the cylinder top with Ricinus-oil before mounting. This prevent tearing/damaging of the thread.

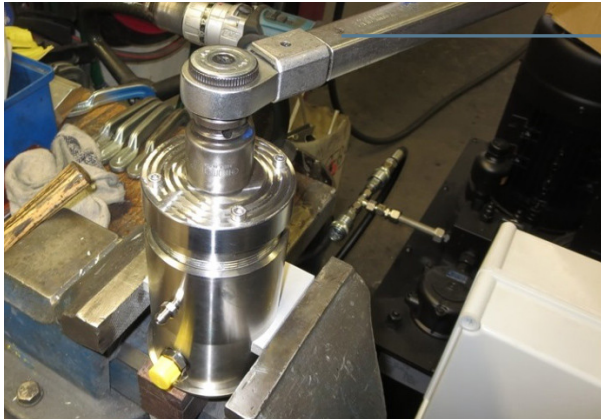


Cylinder top

**17.** Fix the cylinder in the bench vice, and then mount the cylinder top and tighten it by hand.

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Torque wrench (200 Nm)

**18.** Tighten the cylinder top 200Nm by using a torque wrench. Retighten again after 2 hours before mounting the cylinder in the freezer.

Correct mounting of the sealing rings

Correct mounting of the sealing rings

