

Maintenance

Maintenance instructions for THK and Rexroth rail guide

For all guide carriage sizes, the relubrication interval is approx. 5000 km for the carriage with ball chain or approx. 2000 km for the carriage without (Rexroth without ball chain / standard). It is dependent on several factors, i.e. operating temperature, load, degree of pollution, etc. Grease quantity depends on the guide carriage (see Table).

Size		12	15	20	25	30	35
Guide		THK					
Quantity	[cm ³]	0.14	0.4	0.6	1.2	1.5	1.7
Guide		Rexroth					
Quantity	[cm ³]	0.15	0.8	1.4	2.8	4.4	4.4

Klüberplex BE 31-102 is used for the initial lubrication. (When using other roller bearing greases, please take note of the manufacturer's instructions!) Roller bearing greases with a solid lubricant percentage (e.g. graphite or MoS₂) is not to be used.

Please refer here to our assembly and maintenance instructions.

Maintenance instructions for roller guide

Under normal operating conditions (dry environment, no dust, etc.), the roller guide is lubricated for life by integrated lubricating felts.

Maintenance instructions for ball screw

For ball screws, relubrication intervals depend on the pitch and the spindle diameter:

KGT 12xx to 32xx after approx. 2.5×10^7 overrolling movements

KGT 40xx and 50xx after approx. 1.5×10^7 overrolling movements

KGT-Type	[Size]	1205	1210	1605	1610	1620	1640	2005	2010	2020	2050	2505	2510	2525	2550
Quantity	[cm ³]	0,55	0,55	1,70	1,80	1,70	1,80	2,00	2,10	2,30	4,50	2,60	3,40	3,10	4,80

KGT-Type	[Size]	3205	3210	3220	3232	3240	3260	4005	4010	4020	4040	5010	5020
Quantity	[cm ³]	4,20	5,60	4,60	5,30	3,00	4,60	5,30	15,40	10,20	14,30	25,90	26,50

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In general, ball screw spindles should be protected against contamination. A cover band (standard) or a bellows can be used here.

Please refer here to our assembly and maintenance instructions.

Note: PRESSOL 12226 (125 cm³) one-hand grease gun with spout and corresponding coupler can be ordered from us.

Other maintenance instructions

The relubrication interval and the relubrication amount are generally influenced by many factors (e.g. speed, temperature, ambient conditions, etc.). For this reason, only reference values have been given here. Relubrication should take place at least every two years.

The relubrication should take place "in motion".

Note: The customer is required to carry out a basic lubrication after commissioning!

All mounted ball bearings are sealed and maintenance-free.

The toothed belt is also maintenance-free and must only be replaced if an excess load leads to the breakage or elongation of the elastic area.

Excessive dust and contamination on the toothed belt and at the cover band should be regularly removed.