

Lubrication of the end bearings

Bearings for Ball Screw Assemblies are lubricated with grease for a lifetime of reliable service. It should be noted, however, that grease lubrication does not facilitate the dissipation of heat in the bearings. The bearing temperature should therefore not exceed 50 °C, particularly in machine tool applications. At higher temperatures circulating oil lubrication must be set up. Angular-contact thrust ball bearings of series LGF, LGN are lifetime-lubricated with KE2P-35 grease as per DIN 51825. For regreasing, the quantities stated in the table below can be applied via the lube ports provided on the bearings. Where there are pairs of bearings, please note that each bearing must be individually lubricated via the lube port. Each bearing must be lubricated with half the value shown in the table. The maximum interval can be assumed to be 350 million revolutions, in which case the larger of the two quantities should be used. As a rule, the initial grease quantity will therefore last for the entire service life of a Ball Screw Assembly.

Relubrication quantities for angular-contact thrust ball bearings											
Abbreviation		Quantity (cm ³)		Abbreviation		Quantity (cm ³)		Abbreviation		Quantity (cm ³)	
			¹⁾		²⁾		¹⁾				¹⁾
LGN-B-0624		0.33	0.22								
LGN-B-1034		0.33	0.22								
LGN-B-1242	LGF-B-1255	0.43	0.33								
LGN-B-1747	LGF-B-1762	0.54	0.43								
LGN-B-2052	LGF-B-2068	0.87	0.54								
LGN-B-2557	LGF-B-2575	1.09	0.65	LGN-C-2557	LGF-C-2575	2.17	1.3				
LGN-B-3062	LGF-B-3080	1.09	0.65	LGN-C-3062	LGF-C-3080	2.17	1.3				
LGN-B-3572	LGF-B-3590	1.74	0.98								
LGN-A-4075		2.17	1.30					LGN-A-4090	LGF-B-40115	6.52	3.80
LGN-A-5090		2.72	1.63					LGN-A-50110	LGF-A-50140	9.78	5.98

- 1) Shortened lubricating interval max. 10 M revolutions
 2) Where there are pairs of bearings, lubricate each bearing via the lube port.
 Lubricate each bearing with half the value shown in the table.