



Higher speeds at less motor capacity

NEFF Ball Screw Drives | KGT1616-P8-3,0 | KGT 1640-P10-3,0 | KGT3260-P10-3,5

NEFF Ball Screws extended its product range of Ball Screw Drives. For the demand of higher speeds at the same mass moment of inertia and less motor capacity there are two new products:

KGT 1616-P8-3,0 with cylindrical or flanged nut
 KGT 1640-P10-3,0 with cylindrical or flanged nut
 KGT 3260-P10-3,5 with cylindrical or flanged nut.

General technical data:

The thread profile of NEFF ball screws is produced by cold rolling. Both screw and nut have an arched thread profile. The load angle is 45°. The new ball screw drives are available in accurate classes up to T5 (12µm/300mm).

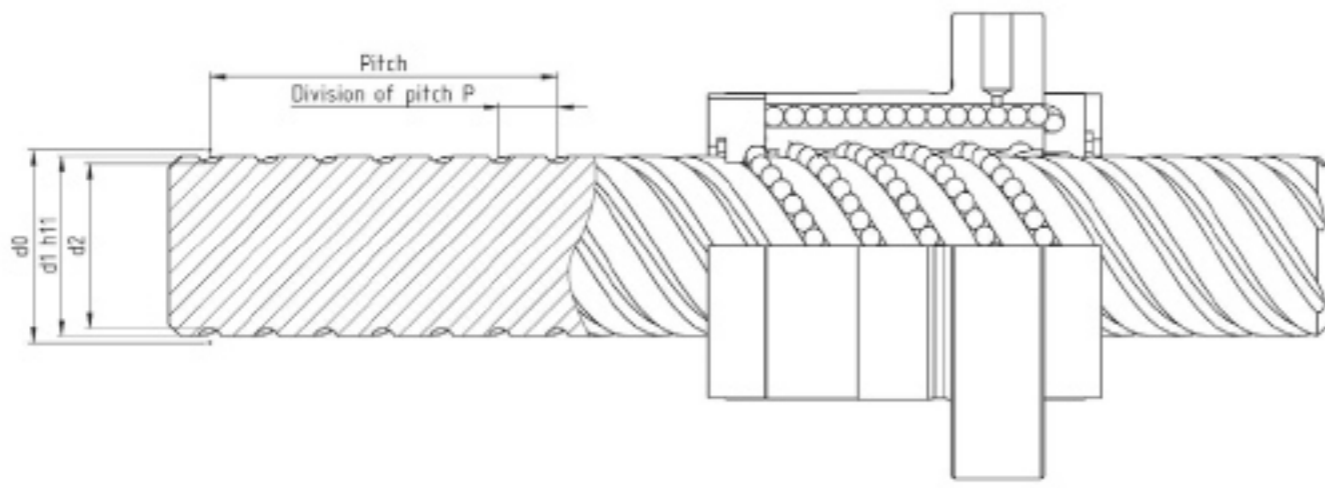
The integrated frontal channel deflection system at the KGT 1616-P8-3,0 is responsible for low noise operation. According to this advantage the 4-start ball screw KGT 1640-P10-3 and the 6-start ball screw KGT 3260-P10-3,5 is characterized at its also low noise cover deflection system.

The NEFF ball screws range corresponds to DIN 69051 and the NEFF-Standard. Effective in appropriate quantities nuts can also be delivered in customized designs.

Technical data:

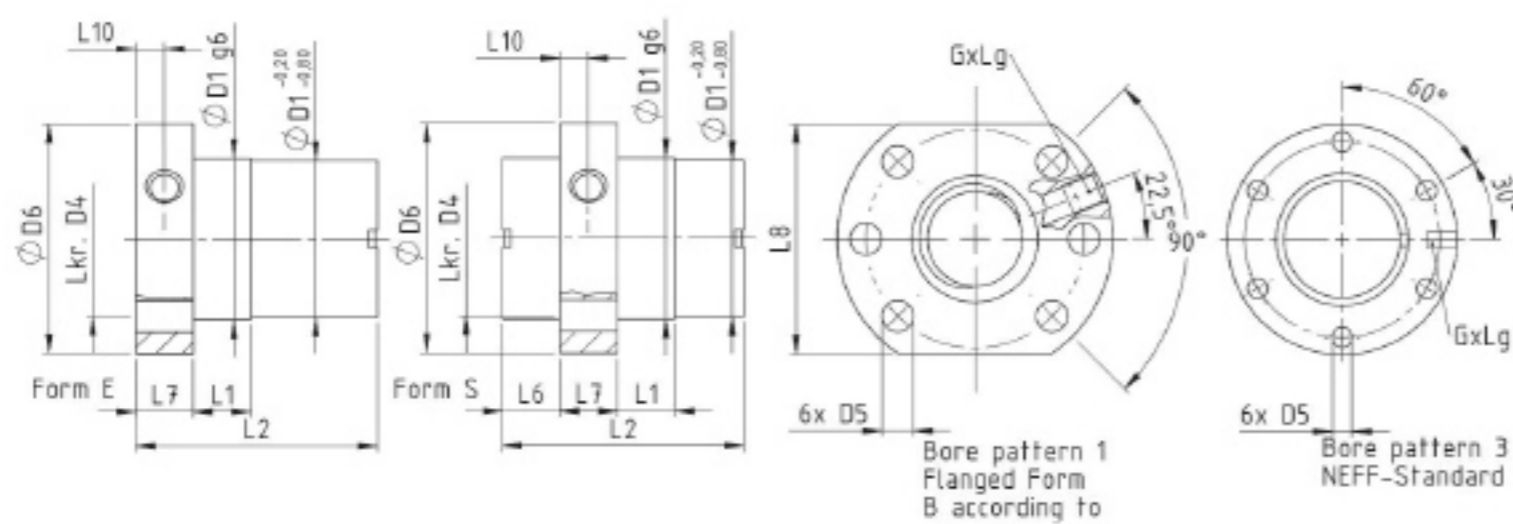
Thread direction:	Right hand thread	Material spindle:	1.1213 Cf53
Length:	up to 5600 mm, > 6000 mm on request	Material nut:	1.3505 100Cr6
Straightness:	L < 500 mm: 0,05 mm	Hardness:	57 +8 HRC
	L 500–1000 mm: 0,08 mm	Accuracy classes:	T5: 23µm / 300 mm
	L > 1000 mm: 0,1 mm		T7: 52µm / 300 mm
Axial backlash:	0,05 mm (standard; backlash-free: on request)		T9: 130µm / 300 mm

Dimensions of ball screws KGS:



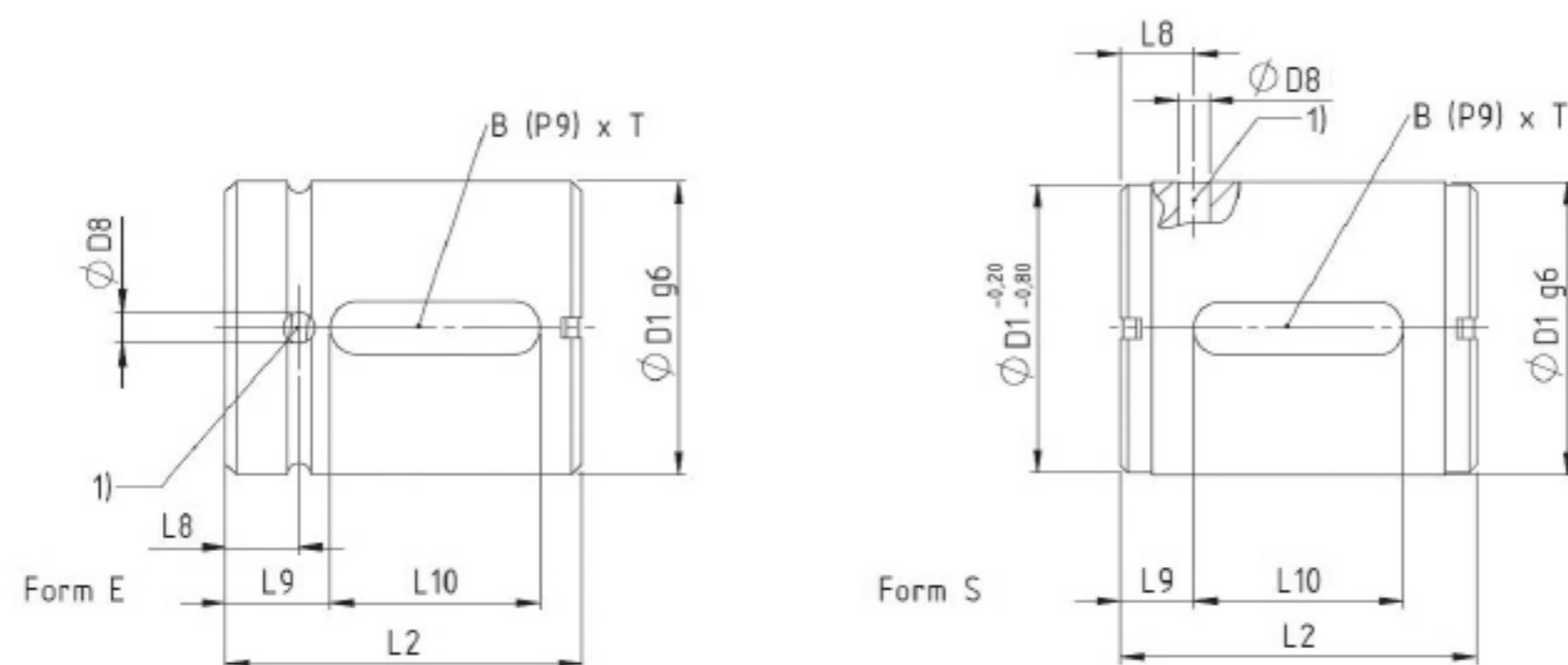
Type	Ball diameter D_w [mm]	Dimensions in [mm]				Distributed load W_{KGS} [kg/m]	Geometrical moment of inertia I_y [10^4 mm ⁴]	Moment of resistance ¹⁾ [10^3 mm ³]	Mass moment of inertia [$kg\ m^2/m$]
		d_0	d_1	d_2	L_{max}				
KGS-1616-P8	3	16	15,4	13	5600	1,26	0,14	0,216	$3,21 \times 10^{-5}$
KGS-1640-P10	3	16	15	12,6	5600	1,26	0,14	0,216	$3,21 \times 10^{-5}$
KGS-3260-P10	3,5	32	30,9	28,3	5600	5,63	3,149	2,225	$6,43 \times 10^{-4}$

Dimensions of flanged ball nut KGF-D/KGF-N:



Type	Form	Dimensions in [mm]											Lubrication bore G	Axial backlash max. [mm]	No. of circuits	Load ratings [kN]	
		D1	D4	D5	D6	L1	L2	L6	L7	L8	Lg	L10				C_{dyn}	C_0
KGF-D-1616-P8	E	28	38	5,5	48	10	45	—	10	40	10	5	M6	0,08	3,75	10	16,4
KGF-N-1616-P8	E	28	38	5,5	48	8	45	—	12	—	8	6	M6	0,08	3,75	10	16,4
KGF-D-1640-P10	S	32	42	5,5	52	10	45	10	10	40	8	5	M6	0,08	3,5	8,5	13
KGF-D-3260-P10	S	53	65	9	80	16	68	10	12	62	10	6	M6	0,08	4,8	20	49,3
KGF-N-3260-P10	E	53	68	7	80	16	68	10	16	—	8	8	M6	0,08	4,8	20	49,3

Dimensions of cylindrical ball nut KGM-D/KGM-N:



Type	Form	Dimensions in [mm]							Axial backlash max. [mm]	No. of circuits	Load ratings [kN]	
		D1	D8	L2	L8	L9	L10	B x T			C_{dyn}	C_0
KGM-D-1616-P8	E	28	3	45	7	15	20	5x2,2	0,08	3,75	10	16,4
KGF-D-1640-P10	S	28	1,5	45	14,5	17,5	10	5x2	0,08	3,5	8,5	13
KGM-N-3260-P10	S	53	1,5	68	15,5	21,5	25	6x4	0,08	4,8	20	49,3