

Carry type «FGR»



Nut with mounting thread and tube type ball return



Legend

d_0 = nominal screw diameter [mm]

d_1 = outside screw diameter [mm]

d_2 = core diameter [mm]

p = pitch [mm]

i = number of ball circulations [-]

D_w = ball diameter [mm]

B = pin wrench hole (position not defined) [mm]

S = lubrication hole (position not defined) [mm]

SA = wipers



K = plastic



B = brushes

T = standard backlash [mm]

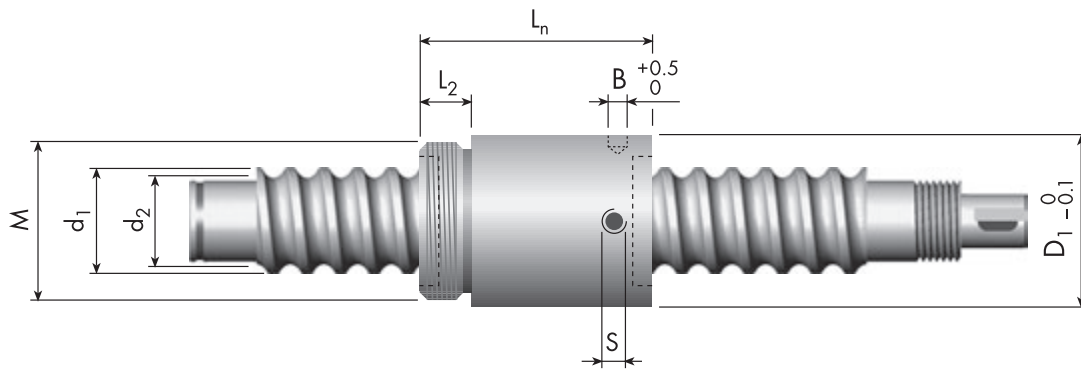
³⁾ = only on request

Warning! Note when selecting a ball screw that the maximum rotational speed depends on the system's rotational speed characteristics. See page 29 for the appropriate calculations.

Special designs available on request.
All specifications are subject to change without notice.

Quality management ISO 9001:2008

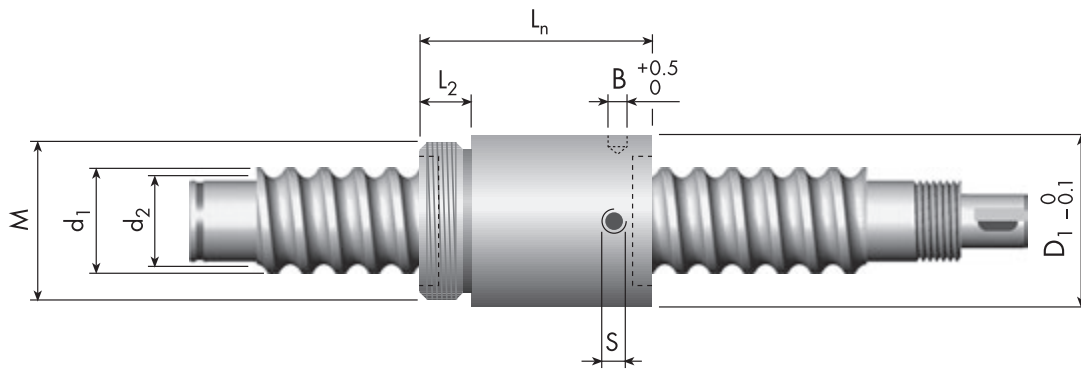
Carry type «FGR» (1/3)



Carry type «FGR» $d_0 \times p$ mm	Dimensions												Load rates	
	Screw		Nut	M	L_n	L_2	i	D_w	B +0.5/0	S	SA	T	C_{dyn}	C_{stat}
d_1 mm	d_2 mm	D_1 0/-0.1 mm	N											
right-hand threads														
6 x 2	5.7	4.6	16	M12x1	22	8	1x3.5	1.59	2.5	—	—	0.06	1700	2300
8 x 2	8.0	6.5	18	M14x1	24	8	1x3.5	1.59	2.5	—	—	0.06	2000	3200
8 x 2	8.0	6.5	18	M14x1	24	8	1x3.5	1.59	2.5	∅ 2	K	0.06	2000	3200
8 x 2.5	8.0	6.6	17.5	M15x1	24	8	1x3.5	1.59	2.5	—	—	0.06	2000	3200
8 x 2.5	8.0	6.6	17.5	M15x1	26	8	1x3.5	1.59	2.5	∅ 2	K	0.06	2000	3200
8 x 8	8.0	6.6	18	M14x1	25	8	2x1.5	1.50	2.5	—	—	0.06	1500	2500
10 x 2	9.7	8.2	19.5	M17x1	22	7	1x3.5	1.59	2.5	—	—	0.06	2300	4000
10 x 2	9.7	8.2	19.5	M17x1	22	7	1x3.5	1.59	2.5	∅ 2	K	0.06	2300	4000
10 x 3	9.9	7.8	21	M18x1	29	9	1x3.5	2.00	3	—	—	0.06	2800	5000
10 x 3	9.9	7.8	21	M18x1	29	9	1x3.5	2.00	3	∅ 2	K	0.06	2800	5000
10 x 10	9.8	7.9	23	M18x1	35	9	2x1.5	2.00	3	—	—	0.06	2500	4500
10 x 10	9.8	7.9	23	M18x1	35	9	2x1.5	2.00	3	∅ 4	K	0.06	2500	4500
left-hand threads														
6 x 2	5.7	4.6	16	M12x1	22	8	1x3.5	1.59	2.5	—	—	0.06	1700	2300
10 x 2	9.7	8.2	19.5	M17x1	22	7	1x3.5	1.59	2.5	—	—	0.06	2300	4000
10 x 3	9.9	7.8	21	M18x1	29	9	1x3.5	2.00	3	—	—	0.06	2800	5000
10 x 3	9.9	7.8	21	M18x1	29	9	1x3.5	2.00	3	∅ 2	K	0.06	2800	5000

The CAD data corresponding to the types shown above are available at www.gewinde.ch

Carry type «FGR» (2/3)



Carry type «FGR» $d_0 \times p$ mm	Dimensions												Load rates	
	Screw		Nut	M	L_n	L_2	i	D_w	B	S	SA	T	C_{dyn}	C_{stat}
	d_1	d_2	D_1 0/-0.1 mm					+0.5/0					N	
right-hand threads														
12 x 4	12.0	9.8	26	M20x1	32	8	1x3.5	2.50	2.5	—	—	0.07	5 500	11 000
12 x 4	12.0	9.8	26	M20x1	34	10	1x3.5	2.50	2.5	∅4	K	0.07	5 500	11 000
12 x 5	12.0	9.5	26	M20x1	37	8	1x3.5	2.78	3	—	—	0.07	6 600	12 000
12 x 5	12.0	9.5	26	M20x1	37	8	1x3.5	2.78	3	∅4	K	0.07	6 600	12 000
12.7 x 12.7	13.1	10.3	29.5	M25x1.5	50	12	2x1.5	3.50	3	—	—	0.07	8 000	15 500
12.7 x 12.7	13.1	10.3	29.5	M25x1.5	50	12	2x1.5	3.50	3	M5	B	0.07	8 000	15 500
14 x 2	14.0	12.5	26	M22x1.5	32	10	2x2.5	1.59	3	—	—	0.06	4 500	10 000
14 x 2	14.0	12.5	26	M22x1.5	32	10	2x2.5	1.59	3	∅2	K	0.06	4 500	10 000
14 x 4	14.0	11.5	29	M22x1.5	32	8	1x3.5	2.78	3	—	—	0.07	8 100	16 000
14 x 4	14.0	11.5	29	M22x1.5	38	10	1x3.5	2.78	3	∅4	K	0.07	8 100	16 000
16 x 2	16.0	14.5	30	M26x1.5	28	12	1x2.5	1.59	3.5	—	—	0.06	2 500	5 500
16 x 2	16.0	14.5	30	M26x1.5	28	12	1x2.5	1.59	3.5	∅2	K	0.06	2 500	5 500
16 x 5	15.7	13.0	32	M26x1.5	42	12	1x3.5	3.50	4	—	—	0.07	12 000	25 000
16 x 5	15.7	13.0	32	M26x1.5	47	12	1x3.5	3.50	4	M5	K	0.07	12 000	25 000
16 x 10	15.7	13.0	32	M26x1.5	47	12	1x2.5	3.50	4	—	—	0.07	8 500	12 500
16 x 10	15.7	13.0	32	M26x1.5	52	12	1x2.5	3.50	4	∅4	K	0.07	8 500	12 500
16 x 10	15.7	13.0	32	M26x1.5	47	12	2x2.5	3.50	4	—	—	0.07	17 000	25 000
16 x 10	15.7	13.0	32	M26x1.5	52	12	2x2.5	3.50	4	∅4	K	0.07	17 000	25 000
left-hand threads														
12 x 5	12.0	9.5	26	M20x1	37	8	1x3.5	2.78	3	—	—	0.07	6 600	12 000
14 x 4	14.0	11.5	29	M22x1.5	32	8	1x3.5	2.78	3	—	—	0.07	8 100	16 000
14 x 4	14.0	11.5	29	M22x1.5	38	10	1x3.5	2.78	3	∅4	K	0.07	8 100	16 000
16 x 5	15.7	13.0	32	M26x1.5	47	12	1x3.5	3.50	4	—	—	0.07	12 000	25 000

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