

# Carry type «FBR»



Flange type B nut following DIN 69051 with 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]

$S$  = lubrication hole [mm]

SA = wipers



K = plastic



B = brushes

T = standard backlash [mm]

<sup>3)</sup> = only on request

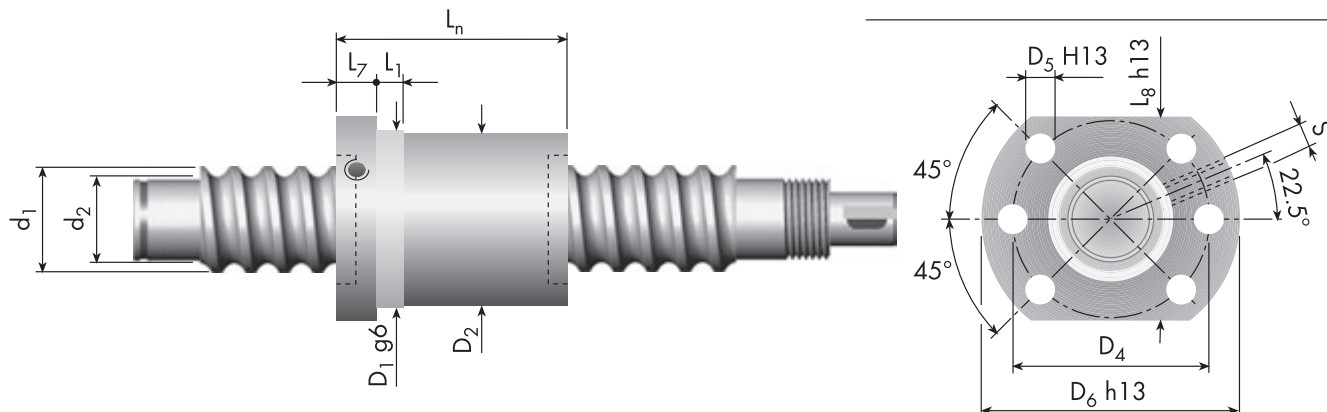
<sup>4)</sup> = special master gauge for holes; only 4 instead of 6 holes  
(for  $d_0 \times p = 8 \times 2, 10 \times 10, 12 \times 2, 12 \times 3, 12 \times 4$  and  $12 \times 5$ )

**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 «FBR»



Carry type «FBR» $d_0 \times p$ mm	Dimensions														Load rates				
	Screw		Nut		$D_2$	$D_4$	$D_5$	$D_6$	$L_n$	$L_1$	$L_7$	$L_8$	$i$	$D_w$	$S$	$SA$	$T$	$C_{dyn}$	$C_{stat}$
	$d_1$	$d_2$	$D_1$ g6 mm		hole circle	H13	h13				h13							N	
<b>right-hand threads</b>																			
8 x 2 <sup>4)</sup>	8.0	6.5	18	17.5	22	3.4	28	25	4	6	19	1x3.5	1.59	ø4	K	0.06	2000	3200	
10 x 10 <sup>4)</sup>	9.8	7.9	23	22.5	29	4.5	37	40	6	8	24	2x1.5	2.00	M5	K	0.06	2500	4500	
12 x 2 <sup>4)</sup>	12.0	10.6	22	21.5	29	4.5	37	30	5	8	24	1x3.5	1.59	ø4	K	0.06	2000	3200	
12 x 3 <sup>4)</sup>	12.3	10.2	24	23.5	32	4.5	40	36	5	8	26	2x2.5	2.00	—	—	0.06	5000	11000	
12 x 4 <sup>4)</sup>	12.0	9.8	26	25.5	32	4.5	39.5	36	5	8	28	1x3.5	2.50	M5	K	0.07	5500	11000	
12 x 5 <sup>4)</sup>	12.0	9.5	26	25.5	32	4.5	39.5	40	5	7	28	1x3.5	2.78	M5	K	0.07	6600	12000	
14 x 2	14.0	12.5	26	25.5	32	4.5	39.5	32	5	7	28	2x2.5	1.59	ø4	K	0.06	4500	10000	
14 x 4	14.0	11.5	29	28.6	38	5.5	48	40	6	8	36	1x3.5	2.78	M5	K	0.07	8100	16000	
16 x 2	16.0	14.5	30	29.5	38	5.5	48	45	6	10	40	2x2.5	1.59	M6	K	0.06	4500	11000	
16 x 2	16.0	14.5	30	29.5	38	5.5	48	45	6	10	40	3x2.5	1.59	M6	K	0.06	6000	15000	
16 x 10	15.7	13.0	32	31.5	43	6.6	54	52	6	12	44	2x2.5	3.50	M6	K	0.07	17000	25000	
20 x 10	19.5	16.5	38	37.5	50	6.6	62	55	7	10	48	2x2.5	3.50	M6	B	0.07	21000	51000	
20 x 20	20.0	16.5	36	35.5	47	6.6	58	58	7	10	44	2x1.5	3.50	M6	B	0.07	10000	22000	
25 x 10	24.8	21.8	43	42.5	55	6.6	65	55	7	10	50	2x2.5	3.50	M6	B	0.07	21000	54000	
25 x 25	24.5	21.2	44	43.5	56	6.6	70	67	10	12	52	2x1.5	3.50	M6	B	0.08	10000	24000	
25 x 25	24.5	21.2	44	43.5	56	6.6	70	67	10	12	52	4x1.5	3.50	M6	B	0.08	20000	48000	
32 x 10	31.6	28.4	52	51.5	67	9	82	62	10	12	64	2x2.5	3.50	M6	B	0.07	20000	55000	

<b>left-hand threads</b>																			
14 x 4	14.0	11.5	29	28.6	38	5.5	48	40	6	8	36	1x3.5	2.78	M5	K	0.07	8100	16000	

The CAD data corresponding to the types shown above are available at [www.gewinde.ch](http://www.gewinde.ch)