



CHINA
Jingpeng Machinery
Ball Screw
YOSO

HIGH QUALITY PRODUCTS FROM GERMANY



JINGPENG MACHINERY & EQUIPMENT(SHANGHAI) CO.,LTD

Order system - Carry ballscrews

KGT 16x5 FG RH 1 S 350 G7 A E M

Example for complete Carry ballscrew

Type of thread drive

KGT = Carry ballscrew

Nominal size ($d_0 \times p$) [mm]

Nut type:

▪ Shape

ZY = cylindrical nut type SCI...

FG = nut with mounting thread type BSH...

FB = flange nut type FK...

FA = flange nut type FA...

MS = special design according to drawing

for nut only

Right-hand / left-hand thread

RH = right-hand thread (standard)

LH = left-hand thread (availability see dimensional charts)

for nut only

Number of ball circulations (i)

1 = 1 ball circulation

2 = 2 ball circulations

3 = 3 ball circulations

4 = 4 ball circulations

for nut only

Wipers (SA)

S = with wipers (technopolymer or brush)

N = without wipers

for nut only

Ballscrew overall length [mm]

for screw only

Lead accuracy (class)

G9 = ≤ 0.1 mm/300 mm (standard)

G7 = ≤ 0.052 mm/300 mm (on request)

G5 = ≤ 0.023 mm/300 mm (on request)

G3 = ≤ 0.008 mm/300 mm (on request)

for screw only

Backlash (T_{max})

A = standard backlash (see dimensional charts)

R = reduced backlash upon specification

for screw only

Screw end machining

O = no end machining (cut by grinding, hardened ends)

E = end machining according to drawing

for screw only

Assembly

G = screw and nut separate

M = screw and nut assembled according to drawing/specified orientation

Example for screw only

KGT 16x5 RH 350 G7 O G

Example for nut only

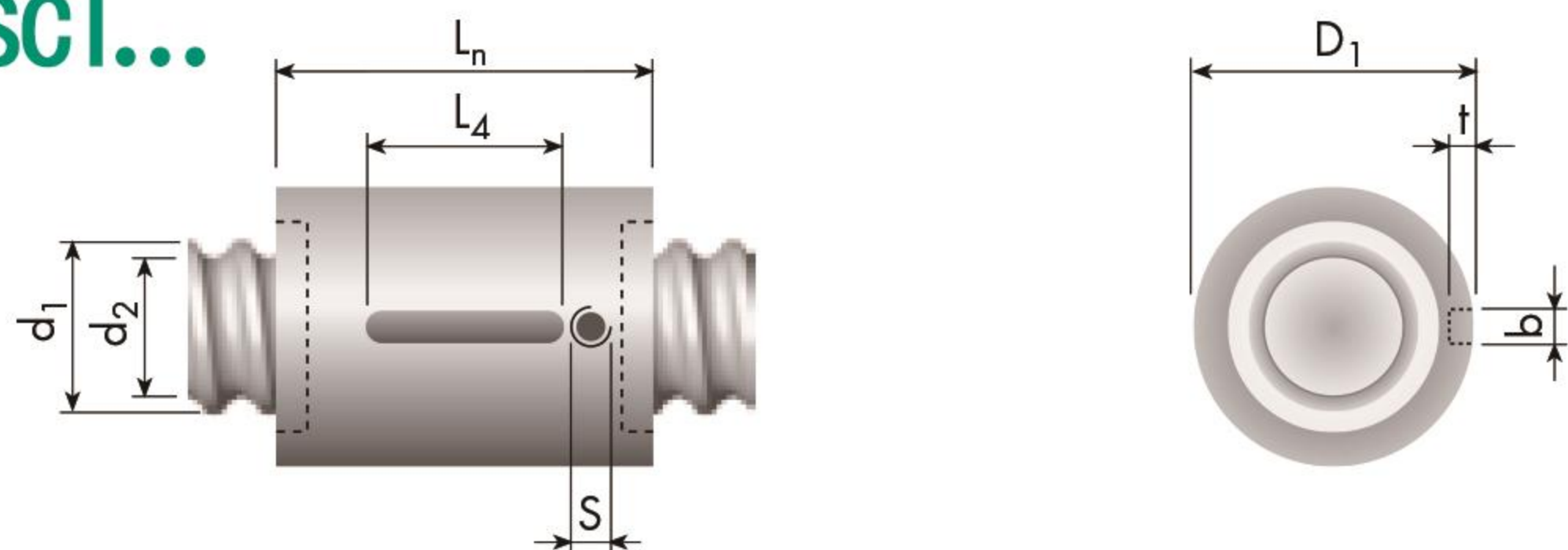
KGT 16x5 FGR RH 1 S A G

Carry ballscrews

Ø4/5/6

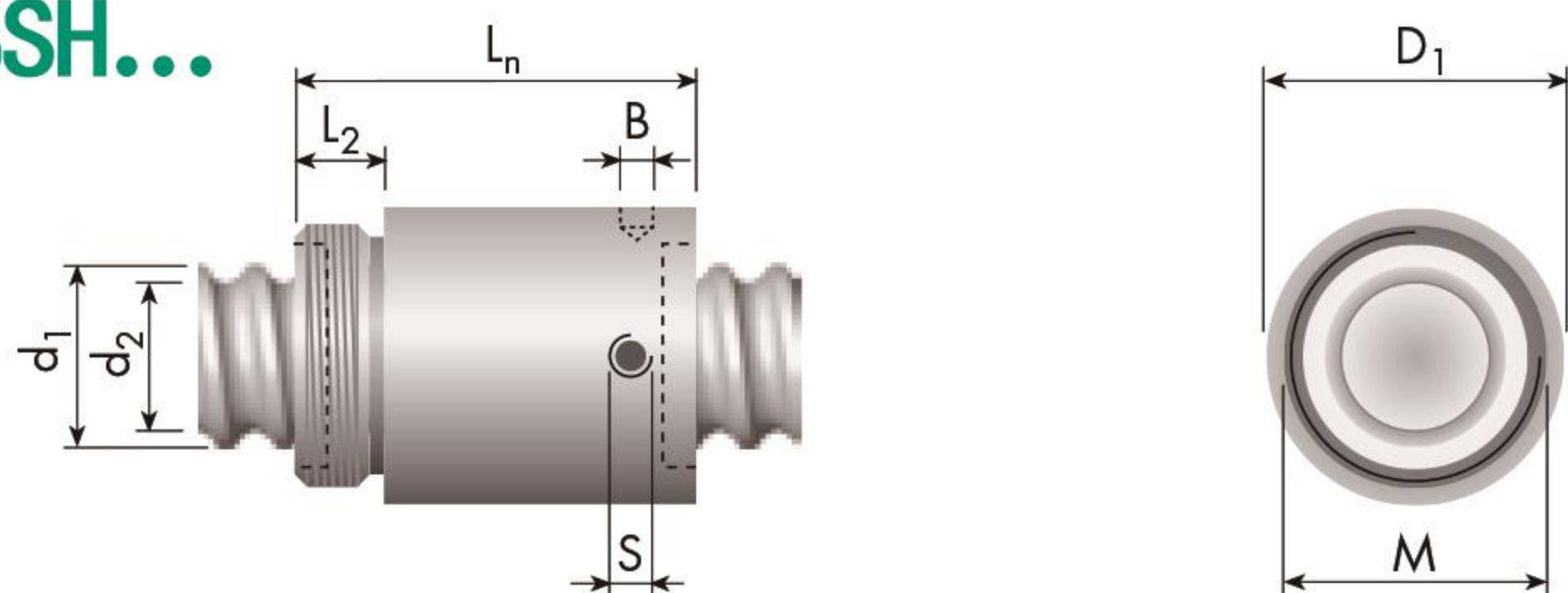
Cylindrical nut

SCI...



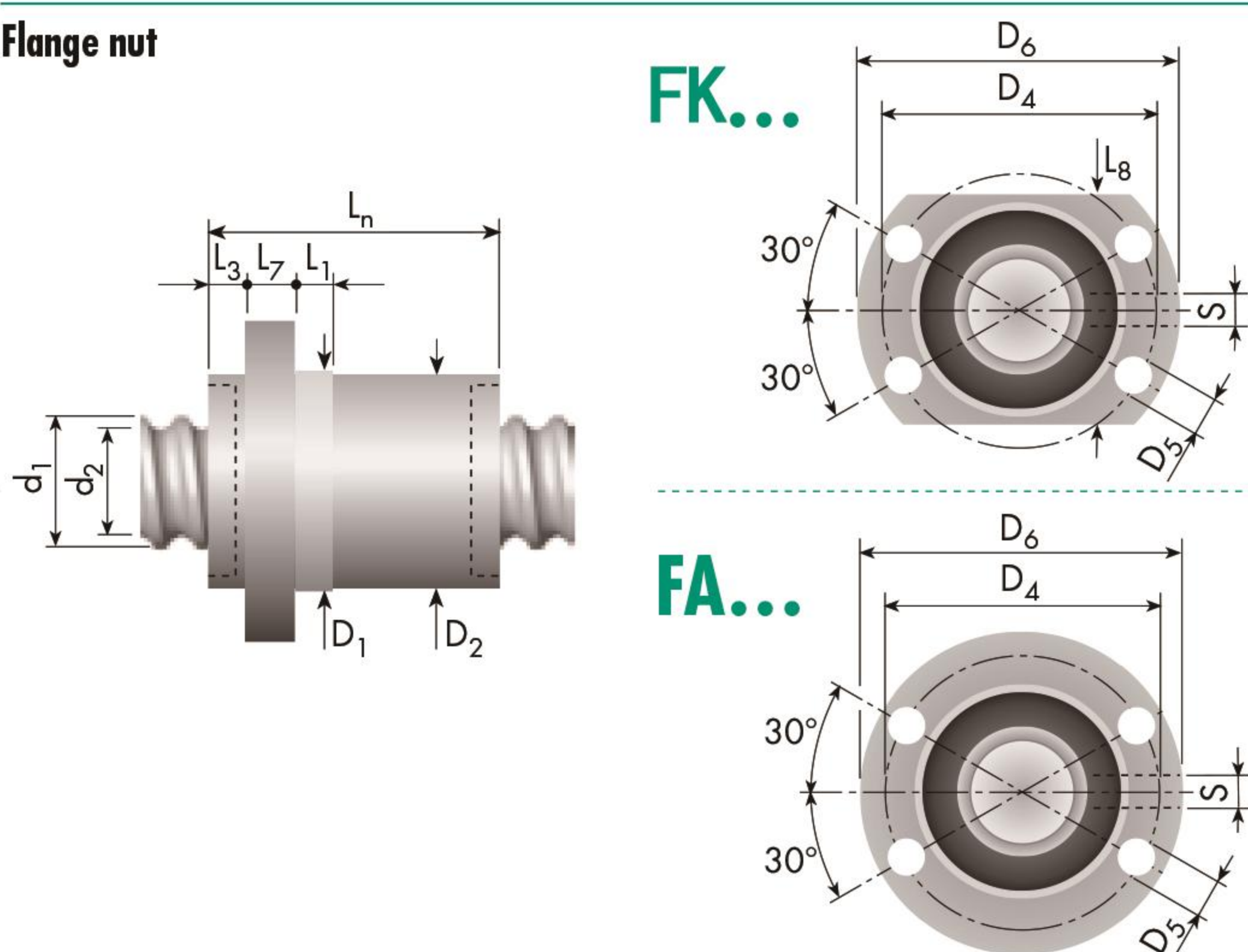
Nut with mounting thread

BSH...

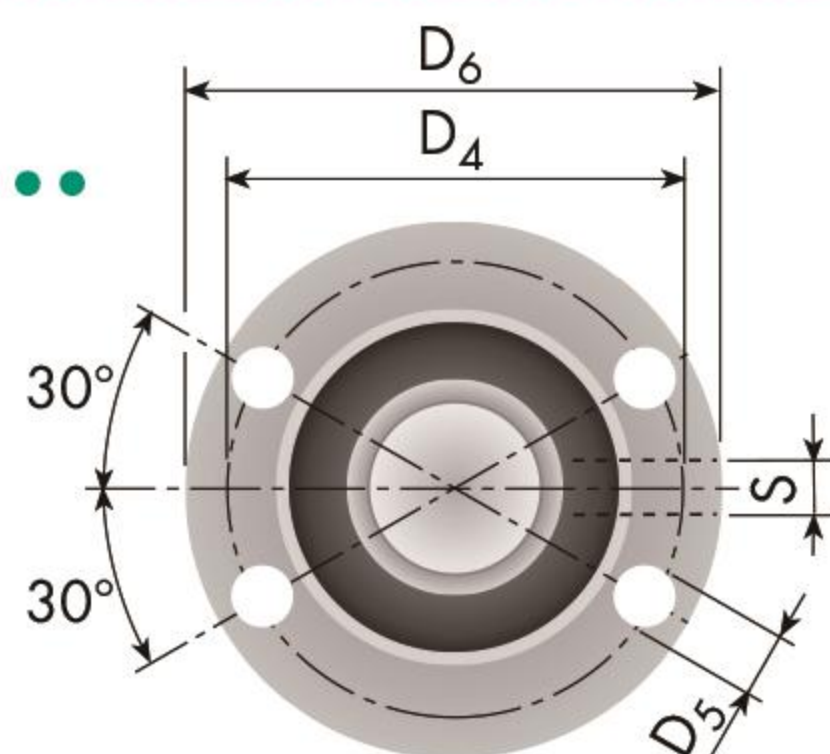


Flange nut

FK...



FA...



Ball return systems



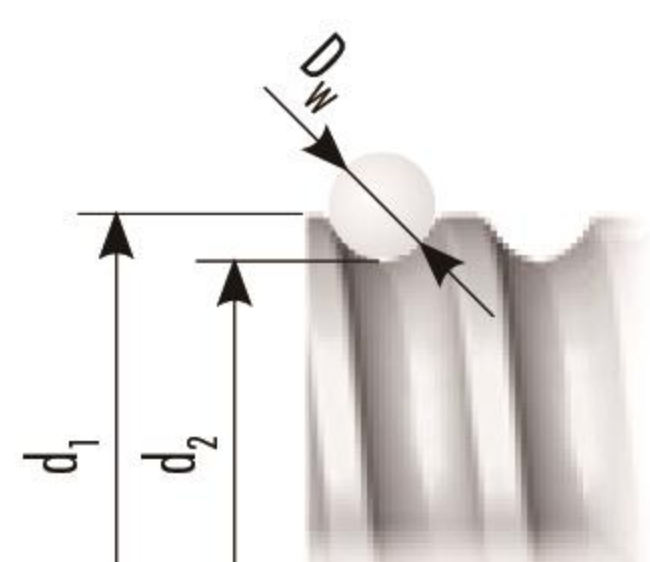
Legend

- d_0 = nominal screw diameter [mm]
- d_1 = outer screw diameter [mm]
- d_2 = core diameter [mm]
- p = pitch [mm]

Nominal size $d_0 \times p$ [mm]	Ball return Type	Relative cost	Right-/ left-hand thread	Dimensions [mm]			
				Screw d_1	d_2	Nut D_1	D_2
4 × 1	...I	€€€	RH / —	4.0	3.2	8 _{g6}	—
5 × 2	...I	€€€	RH / —	5.0	4.0	10 _{g6}	—
6 × 1	...I	€€€	RH / —	6.0	5.0	12 _{g6}	—
5 × 2	...I	€€	RH / —	5.0	4.0	10 _{0/-0.1}	—
5 × 3	...I	€€	RH / —	5.0	4.2	10 _{0/-0.1}	—
5 × 3	...I	€€	RH / —	5.0	4.2	10 _{0/-0.1}	—
6 × 2	...R	€€	RH / LH	5.7	4.6	16 _{0/-0.1}	—
6 × 2	...F	€	RH / —	5.7	4.6	19 _{0/-0.1}	—
6 × 6	...F	€	RH / —	5.9	4.6	19 _{0/-0.1}	—
4 × 1	...I	€€€	RH / —	4.0	3.2	8 _{g6}	7.9
6 × 1	...I	€€€	RH / —	6.0	5.0	12 _{g6}	11.8
6 × 2	...F	€€	RH / —	5.7	4.6	18 _{-0.01/-0.05}	17.5
6 × 6	...F	€€	RH / —	5.9	4.6	18 _{-0.01/-0.05}	17.5

Carry ballscrews Ø4/5/6

																			Load rates [N]		Nominal size $d_0 \times p$ [mm]
D_4 TK	D_5 H13	D_6 h13	M	L_n	L_1	L_2	L_3	L_4	L_7	L_8 h13	i	D_w	B +0.5/0	b P9	t	S	SA	T_{max}	C_{dyn}	C_{stat}	
—	—	—	—	10	—	—	—	—	—	—	3×1	0.80	—	ø2 +0.1/0	1.0	—	—	0.03	430	580	4×1
—	—	—	—	14	—	—	—	8	—	—	3×1	0.80	—	2	1.0	—	—	0.03	500	800	5×2
—	—	—	—	14	—	—	—	8	—	—	3×1	0.80	—	2	1.2	—	—	0.03	600	1000	6×1
—	—	—	M8×0.75	18	—	6	—	—	—	—	3×1	0.80	2.5	—	—	—	—	0.03	500	800	5×2
—	—	—	M8×0.75	19	—	6	—	—	—	—	2×1	0.80	2.5	—	—	—	—	0.03	340	490	5×3
—	—	—	M8×0.75	23	—	6	—	—	—	—	3×1	0.80	2.5	—	—	—	—	0.03	480	770	5×3
—	—	—	M12×1	22	—	8	—	—	—	—	1×3.5	1.59	2.5	—	—	—	—	0.06	1700	2300	6×2
—	—	—	M16×1	19	—	8	—	—	—	—	1×3.7	1.59	2.5	—	—	ø 2	K	0.05	1900	2800	6×2
—	—	—	M16×1	19	—	8	—	—	—	—	2×1.6	1.50	2.5	—	—	ø 2	K	0.05	1700	2600	6×6
12	2.7	17	—	14	2	—	—	—	3	11	3×1	0.80	—	—	—	—	—	0.03	430	580	4×1
18	3.4	24	—	18	4	—	—	—	4	16	3×1	0.80	—	—	—	ø 2	K	0.03	600	1000	6×1
26	3.4	34	—	19	4	—	4	—	4	—	1×3.7	1.59	—	—	—	ø 2	K	0.05	1900	2800	6×2
26	3.4	34	—	19	4	—	4	—	4	—	2×1.6	1.50	—	—	—	ø 2	K	0.05	1700	2600	6×6



i = number of ball circulations [—]
 D_w = ball diameter [mm]
 B = pin wrench hole* [mm]
 S = lubrication hole* [mm]

SA = wipers (details > page 9)
 K = technopolymer wipers
 B = brush wipers
 F = felt rings (on request)

T_{max} = max. standard backlash [mm]
³⁾ = only on request
 * position not defined
 Special designs available on request

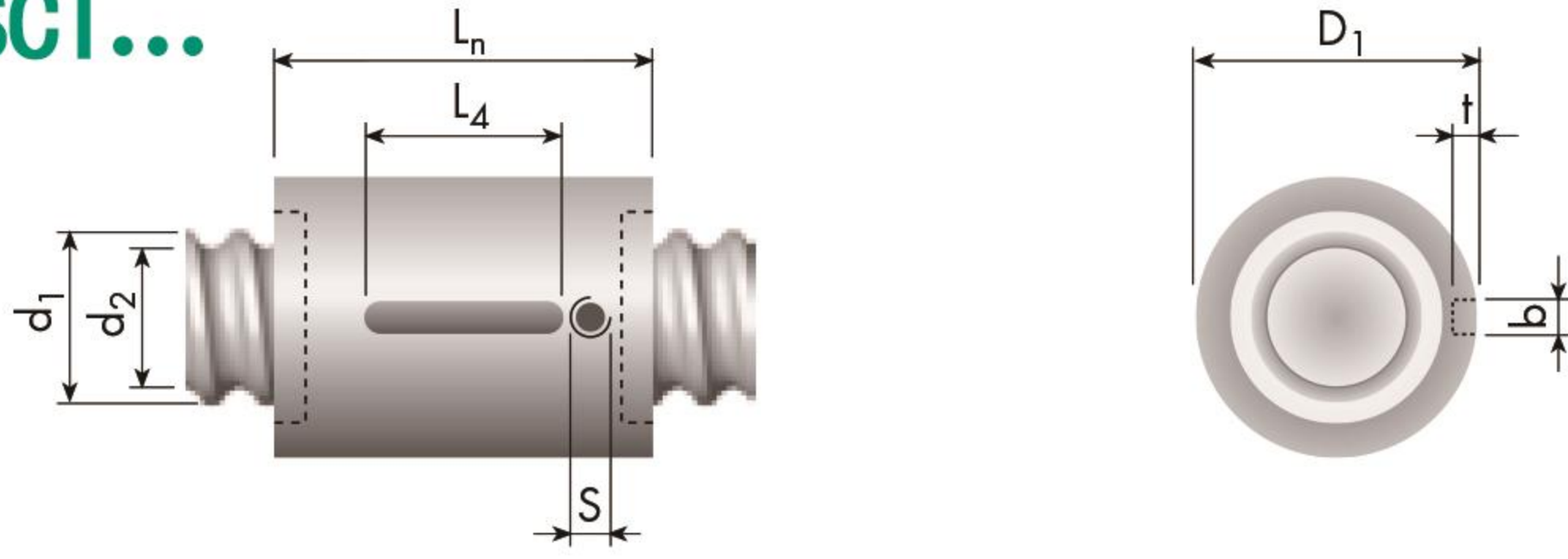
! When selecting a ballscrew, always observe the maximum rotational speed dependent on the system-specific rotational speed characteristics!
 Calculation > page 12

Carry ballscrews

Ø8

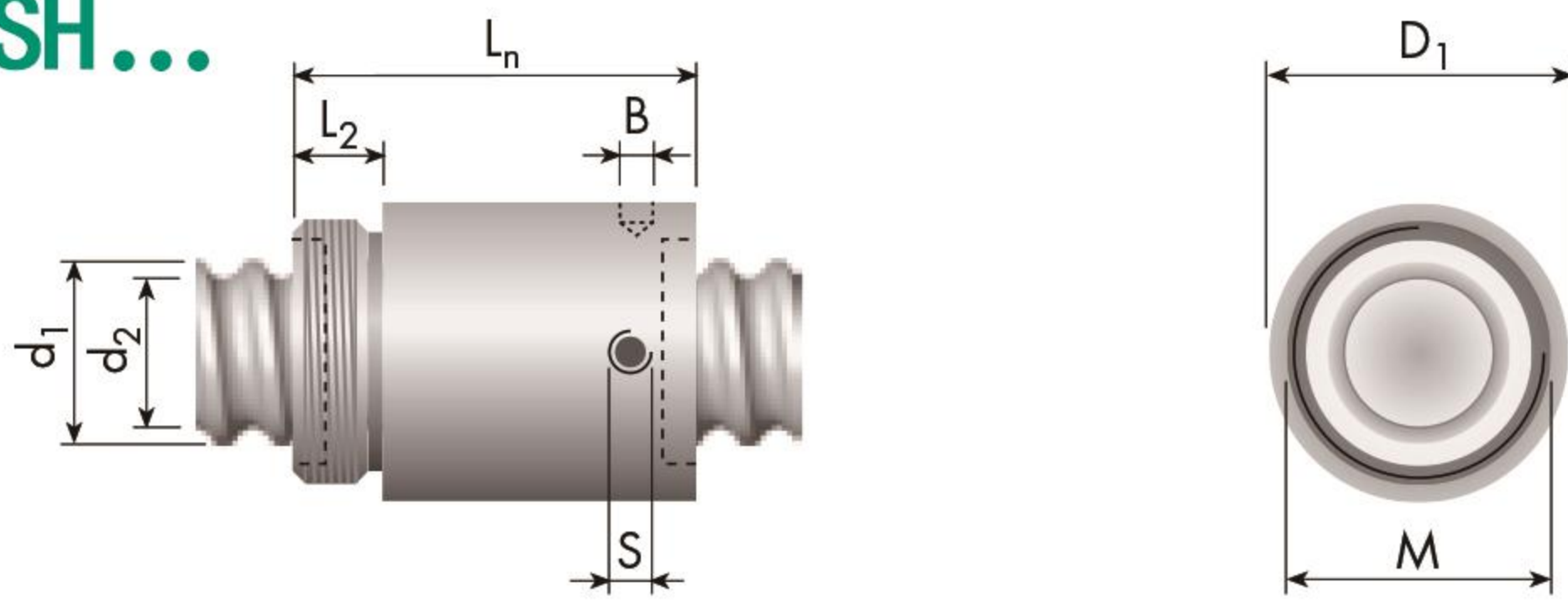
Cylindrical nut

SCI...



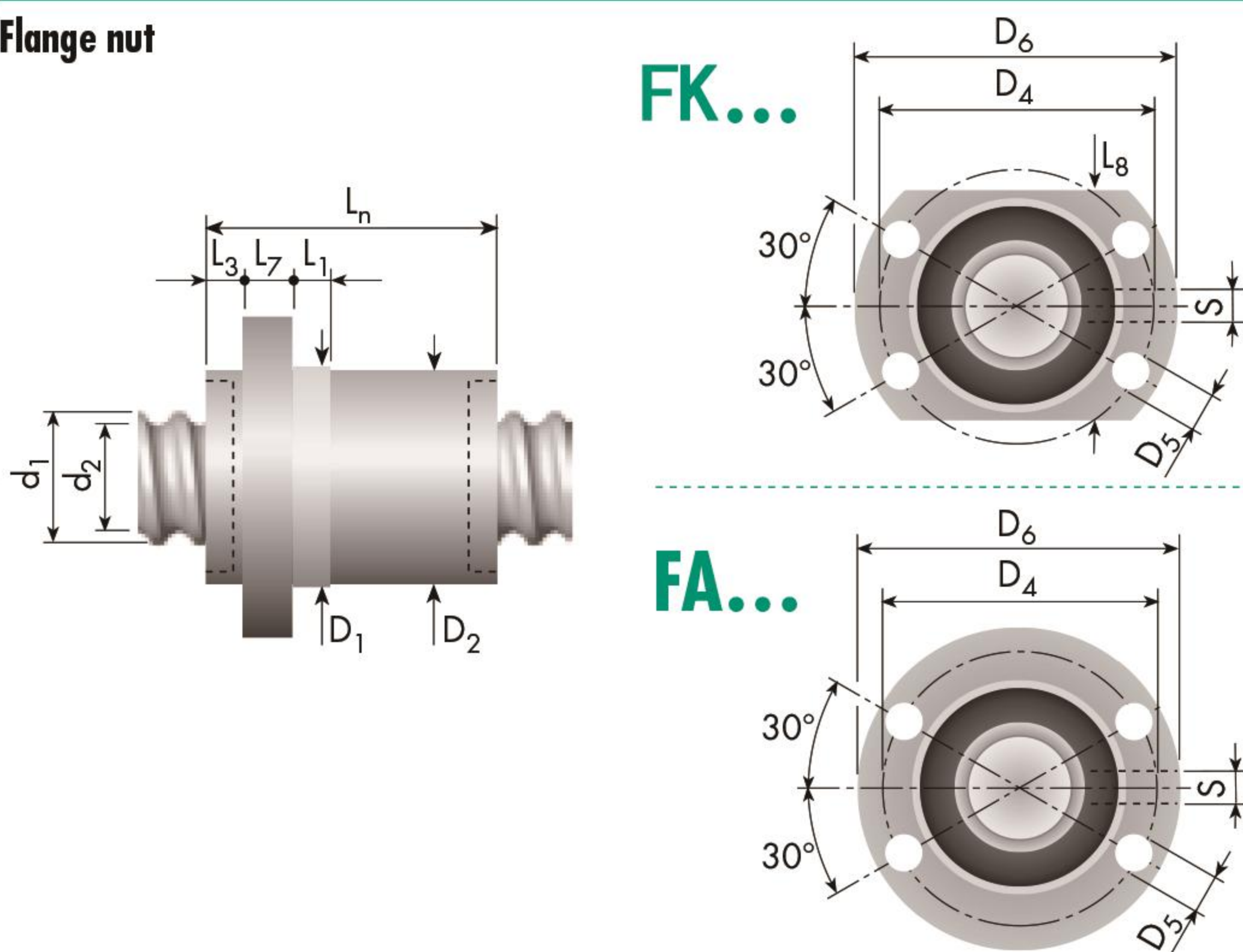
Nut with mounting thread

BSH...

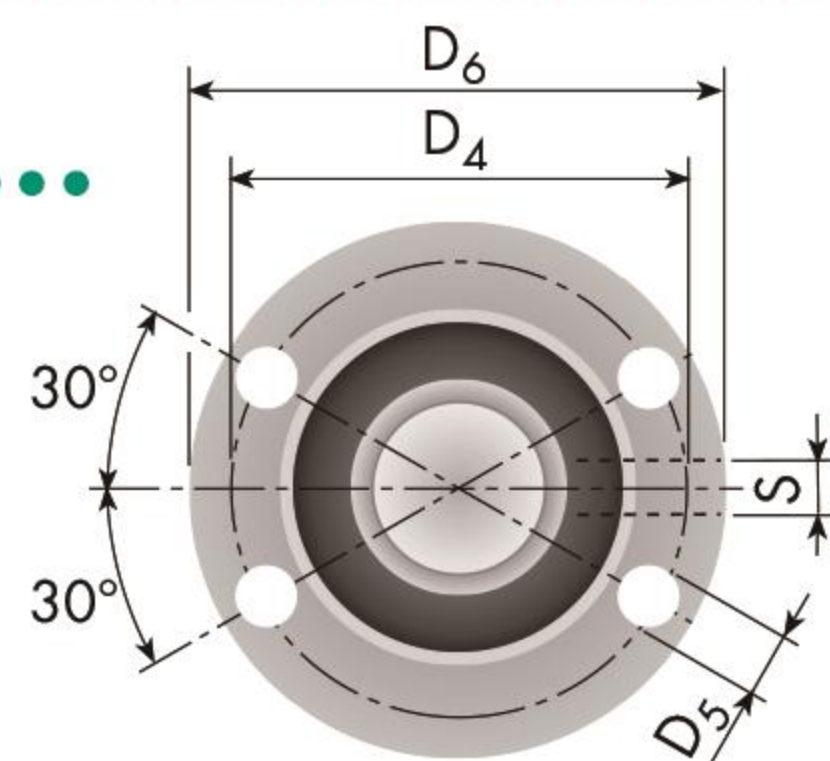


Flange nut

FK...



FA...



Nominal size $d_0 \times p$ [mm]	Ball return Type	Relative cost	Right-/ left-hand thread	Dimensions [mm]			
				Screw d_1	d_2	Nut D_1	D_2
8×1	...I	€€€	RH / —	8.0	7.0	14 _{g6}	—
8×1.5	...I	€€€	RH / —	8.0	6.7	14 _{g6}	—
8×2	...I	€€€	RH / —	8.0	6.5	16 _{g6}	—
8×2	...R	€€€	RH / —	8.0	6.5	18 _{g6}	—
8×2.5	...I	€€€	RH / —	8.0	6.6	16 _{g6}	—
8×2.5	...I	€€€	RH / —	8.0	6.6	16 _{g6}	—
8×2.5	...R	€€€	RH / —	8.0	6.6	18 _{g6}	—
8×3	...I	€€€	RH / —	8.0	6.7	14 _{g6}	—
8×3 ³⁾	...I	€€€	RH / —	8.0	6.7	14 _{g6}	—
8×5	...R	€€€	RH / —	8.0	6.7	18 _{g6}	—
8×12	...E	€€€	RH / —	8.0	6.7	18 _{g6}	—
8×1	...I	€€	RH / —	8.0	7.0	16 _{0/-0.1}	—
8×1.5	...I	€€	RH / —	8.0	6.7	16 _{0/-0.1}	—
8×2	...I	€€	RH / —	8.0	6.5	16 _{0/-0.1}	—
8×2	...R	€€	RH / —	8.0	6.5	18 _{0/-0.1}	—
8×2	...R	€€	RH / —	8.0	6.5	18 _{0/-0.1}	—
8×2.5	...I	€€	RH / —	8.0	6.6	16 _{0/-0.1}	—
8×2.5	...R	€€	RH / —	8.0	6.6	17.5 _{0/-0.1}	—
8×2.5	...R	€€	RH / —	8.0	6.6	17.5 _{0/-0.1}	—
8×3	...I	€€	RH / —	8.0	6.7	16 _{0/-0.1}	—
8×3	...F	€	RH / —	8.0	6.7	23 _{0/-0.1}	—
8×5	...R	€€	RH / —	8.0	6.7	18 _{0/-0.1}	—
8×8	...R	€€	RH / —	8.0	6.6	18 _{0/-0.1}	—
8×8	...F	€	RH / —	8.0	6.6	23 _{0/-0.1}	—
8×1	...I	€€€	RH / —	8.0	7.0	14 _{g6}	13.5
8×2	...I	€€€	RH / —	8.0	6.5	16 _{g6}	15.5
8×2	...R	€€€	RH / —	8.0	6.5	18 _{g6}	17.5
8×8 ³⁾	...R	€€€	RH / —	8.0	6.6	18 _{g6}	17.5
8×12	...E	€€	RH / —	8.0	6.7	18 _{g6}	17.8
8×3	...F	€€	RH / —	8.0	6.7	20 _{-0.01/-0.05}	19.5
8×8	...F	€€	RH / —	8.0	6.6	20 _{-0.01/-0.05}	19.5

Ball return systems

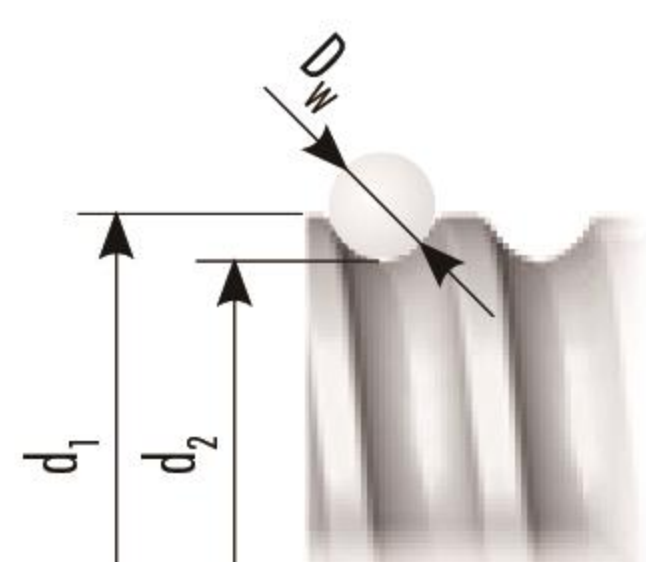


Legend

- d_0 = nominal screw diameter [mm]
- d_1 = outer screw diameter [mm]
- d_2 = core diameter [mm]
- p = pitch [mm]

Carry ballscrews Ø8

																			Load rates [N]		Nominal size
D_4 TK	D_5 H13	D_6 h13	M	L_n	L_1	L_2	L_3	L_4	L_7	L_8 h13	i	D_w	B +0.5/0	b P9	t	S	SA	T_{max}	C_{dyn}	C_{stat}	$d_0 \times p$ [mm]
—	—	—	—	14	—	—	—	8	—	—	3×1	0.80	—	2	1.2	—	—	0.03	700	1200	8×1
—	—	—	—	14	—	—	—	8	—	—	3×1	1.20	—	2	1.2	—	—	0.04	800	1300	8×1.5
—	—	—	—	20	—	—	—	8	—	—	3×1	1.59	—	2	1.2	—	—	0.05	1400	2000	8×2
—	—	—	—	14	—	—	—	8	—	—	1×3.5	1.59	—	2	1.2	—	—	0.06	2000	3200	8×2
—	—	—	—	22	—	—	—	10	—	—	3×1	1.59	—	3	2.0	—	—	0.05	1400	2100	8×2.5
—	—	—	—	22	—	—	—	10	—	—	3×1	1.59	—	3	2.0	∅2	K	0.05	1400	2100	8×2.5
—	—	—	—	16	—	—	—	10	—	—	1×3.5	1.59	—	3	2.0	—	—	0.06	2000	3200	8×2.5
—	—	—	—	12	—	—	—	8	—	—	2×1	1.50	—	2	1.2	—	—	0.05	950	1500	8×3
—	—	—	—	17	—	—	—	8	—	—	3×1	1.50	—	2	1.2	—	—	0.05	1400	2100	8×3 ³⁾
—	—	—	—	19	—	—	—	10	—	—	2×2.5	1.50	—	3	2.0	—	—	0.06	1960	3470	8×5
—	—	—	—	28	—	—	—	8	—	—	2×1.5	1.50	—	2	1.2	∅2	K	0.05	1400	2300	8×12
—	—	—	M14×1	22	—	8	—	—	—	—	3×1	0.80	2.5	—	—	—	—	0.03	700	1200	8×1
—	—	—	M14×1	22	—	8	—	—	—	—	3×1	1.20	2.5	—	—	—	—	0.04	800	1300	8×1.5
—	—	—	M14×1	28	—	8	—	—	—	—	3×1	1.59	2.5	—	—	—	—	0.05	1400	2000	8×2
—	—	—	M14×1	24	—	8	—	—	—	—	1×3.5	1.59	2.5	—	—	—	—	0.06	2000	3200	8×2
—	—	—	M14×1	24	—	8	—	—	—	—	1×3.5	1.59	2.5	—	—	∅2	K	0.06	2000	3200	8×2
—	—	—	M14×1	24	—	8	—	—	—	—	3×1	1.59	2.5	—	—	—	—	0.05	1400	2100	8×2.5
—	—	—	M15×1	24	—	8	—	—	—	—	1×3.5	1.59	2.5	—	—	—	—	0.06	2000	3200	8×2.5
—	—	—	M15×1	26	—	8	—	—	—	—	1×3.5	1.59	2.5	—	—	∅2	K	0.06	2000	3200	8×2.5
—	—	—	M14×1	25	—	8	—	—	—	—	3×1	1.50	2.5	—	—	—	—	0.05	1400	2100	8×3
—	—	—	M20×1	23	—	10	—	—	—	—	1×3.7	1.50	2.5	—	—	∅2	K	0.05	1900	3300	8×3
—	—	—	M14×1	25	—	8	—	—	—	—	2×1.5	1.50	2.5	—	—	—	—	0.06	1960	3470	8×5
—	—	—	M14×1	25	—	8	—	—	—	—	2×1.5	1.50	2.5	—	—	—	—	0.06	1500	2500	8×8
—	—	—	M20×1	23	—	10	—	—	—	—	2×1.7	1.50	2.5	—	—	∅2	K	0.05	2000	3700	8×8
21	3.4	27	—	18	4	—	—	—	4	18	3×1	0.80	—	—	—	∅2	K	0.03	700	1200	8×1
22	3.4	28	—	30	4	—	—	—	6	19	3×1	1.59	—	—	—	∅4	K	0.05	1400	2000	8×2
22	3.4	28	—	25	4	—	—	—	6	19	1×3.5	1.59	—	—	—	∅4	K	0.06	2000	3200	8×2
22	3.4	28	—	30	4	—	—	—	6	19	2×1.5	1.50	—	—	—	—	—	0.06	1500	2500	8×8 ³⁾
25	3.4	30	—	28	4	—	6	—	4	20	2×1.5	1.50	—	—	—	∅2	K	0.05	1400	2300	8×12
28	3.4	36	—	23	4	—	5	—	4	—	1×3.7	1.50	—	—	—	∅2	K	0.05	1900	3300	8×3
28	3.4	36	—	23	4	—	5	—	4	—	2×1.7	1.50	—	—	—	∅2	K	0.05	2000	3700	8×8



i = number of ball circulations [—]
 D_w = ball diameter [mm]
 B = pin wrench hole* [mm]
 S = lubrication hole* [mm]

SA = wipers (details > page 9)
 K = technopolymer wipers
 B = brush wipers
 F = felt rings (on request)

T_{max} = max. standard backlash [mm]
³⁾ = only on request
 * position not defined
 Special designs available on request

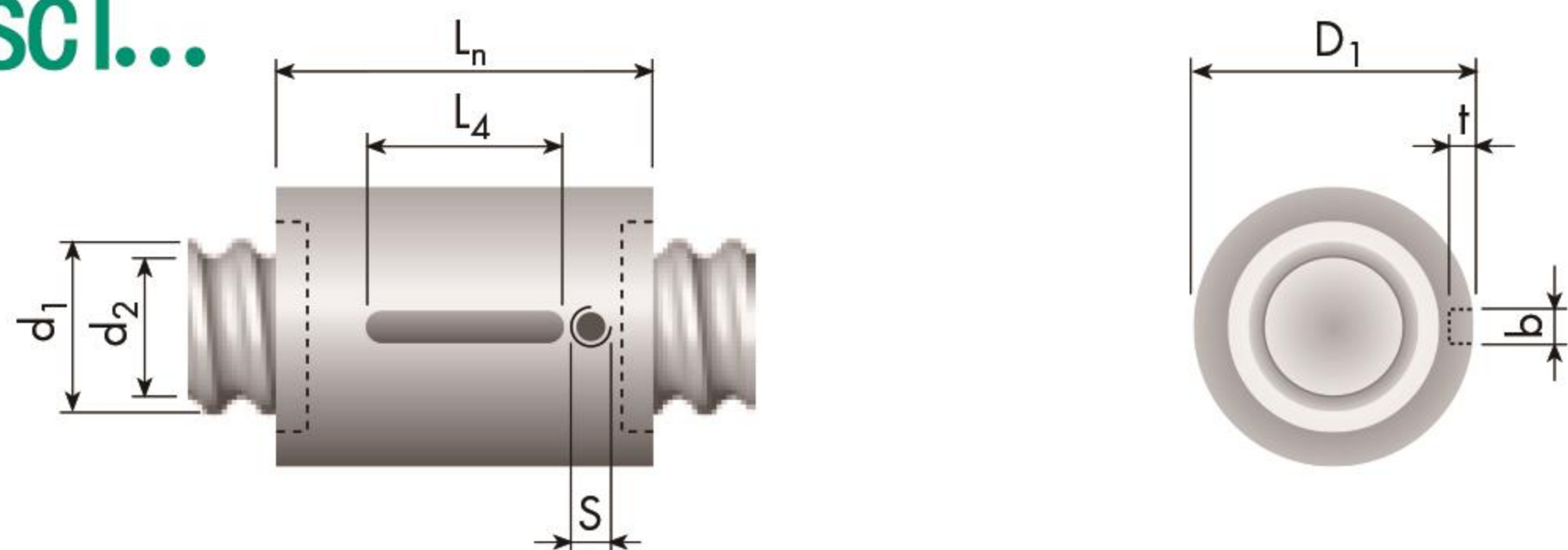
! When selecting a ballscrew, always observe the maximum rotational speed dependent on the system-specific rotational speed characteristics!
 Calculation > page 12

Carry ballscrews

Ø10

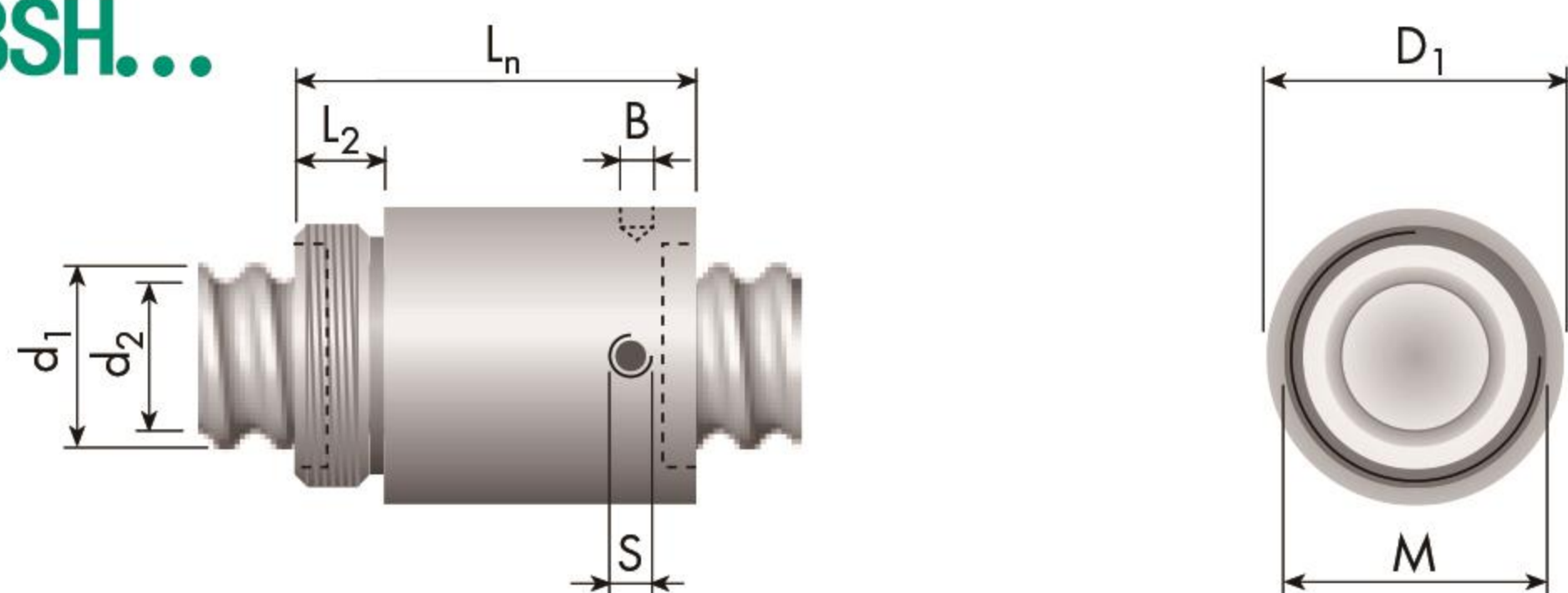
Cylindrical nut

SCI...



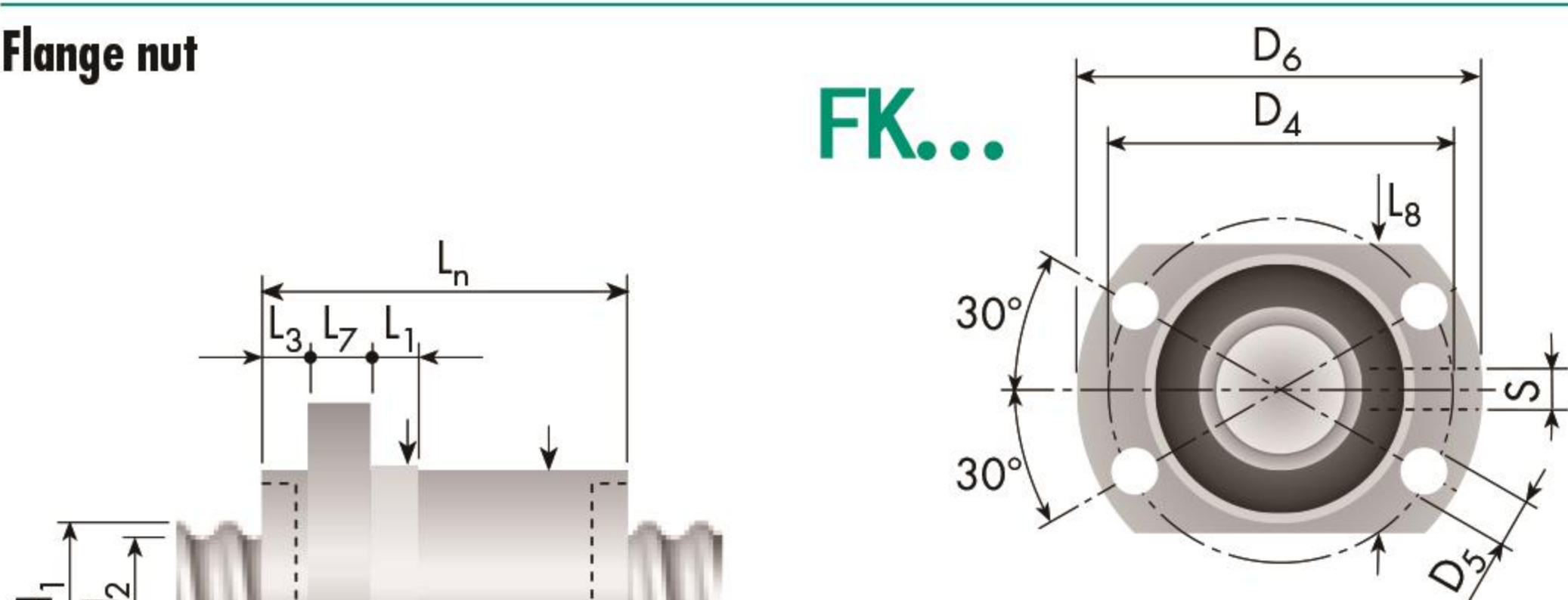
Nut with mounting thread

BSH...

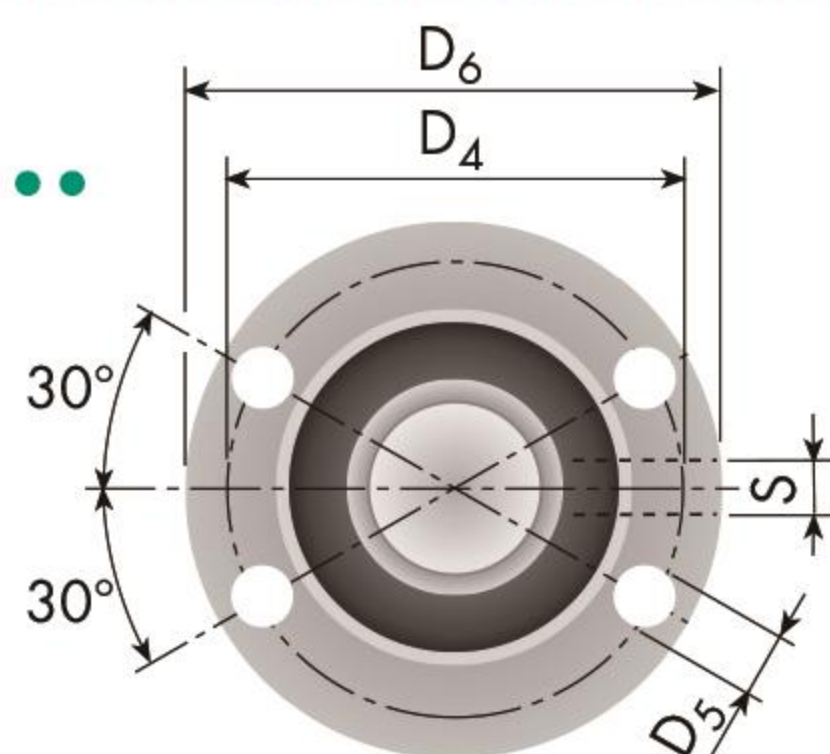


Flange nut

FK...



FA...



Nominal size $d_0 \times p$ [mm]	Ball return Type	Relative cost	Right-/left-hand thread	Dimensions [mm]			
				Screw d_1	d_2	Nut D_1	D_2
10×2	...I	€€€	RH / LH	9.7	8.2	18 _{g6}	—
10×2 ³⁾	...I	€€€	RH / LH	9.7	8.2	18 _{g6}	—
10×3	...R	€€€	RH / LH	9.9	7.8	22 _{g6}	—
10×3	...R	€€€	RH / LH	9.9	7.8	22 _{g6}	—
10×4	...I	€€€	RH / —	10.0	7.5	18 _{g6}	—
10×4	...I	€€€	RH / —	10.0	7.5	18 _{g6}	—
10×10	...R	€€€	RH / —	9.8	7.9	23 _{g6}	—
10×2	...I	€€	RH / LH	9.7	8.2	18 _{0/-0.1}	—
10×2 ³⁾	...I	€€	RH / LH	9.7	8.2	18 _{0/-0.1}	—
10×2	...R	€€	RH / LH	9.7	8.2	19.5 _{0/-0.1}	—
10×2	...R	€€	RH / —	9.7	8.2	19.5 _{0/-0.1}	—
10×3	...I	€€	RH / —	9.9	7.8	20 _{0/-0.1}	—
10×3	...I	€€	RH / —	9.9	7.8	20 _{0/-0.1}	—
10×3	...R	€€	RH / LH	9.9	7.8	21 _{0/-0.1}	—
10×3	...R	€€	RH / LH	9.9	7.8	21 _{0/-0.1}	—
10×3	...F	€	RH / —	9.9	7.8	27 _{0/-0.1}	—
10×4	...I	€€	RH / —	10.0	7.5	20 _{0/-0.1}	—
10×4	...I	€€	RH / —	10.0	7.5	20 _{0/-0.1}	—
10×10	...R	€€	RH / —	9.8	7.9	23 _{0/-0.1}	—
10×10	...R	€€	RH / —	9.8	7.9	23 _{0/-0.1}	—
10×10	...F	€	RH / —	9.9	7.9	27 _{0/-0.1}	—
10×4	...I	€€€	RH / —	10.0	7.5	18 _{g6}	17.8
10×4	...I	€€€	RH / —	10.0	7.5	18 _{g6}	17.8
10×10	...R	€€€	RH / —	9.8	7.9	23 _{g6}	22.5
10×3	...F	€€	RH / —	9.9	7.8	24 _{-0.01/-0.06}	23.5
10×10	...F	€€	RH / —	9.8	7.9	24 _{-0.01/-0.06}	23.5

Ball return systems

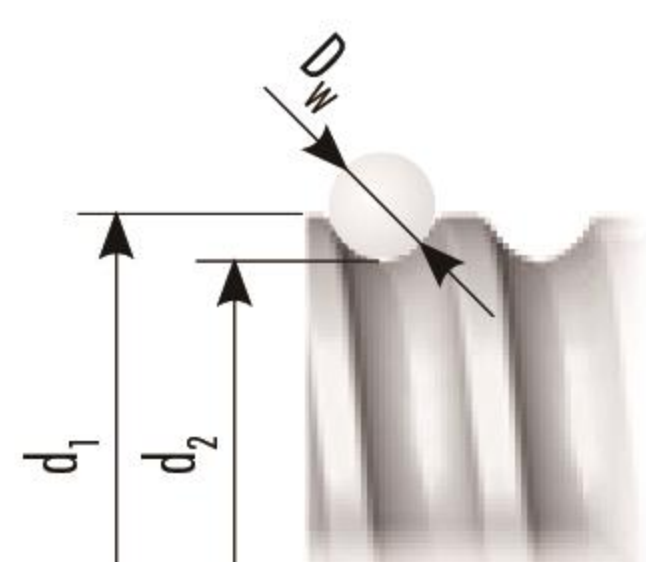


Legend

- d_0 = nominal screw diameter [mm]
- d_1 = outer screw diameter [mm]
- d_2 = core diameter [mm]
- p = pitch [mm]

Carry ballscrews Ø10

																			Load rates [N]		Nominal size $d_0 \times p$ [mm]
D_4 TK	D_5 H13	D_6 h13	M	L_n	L_1	L_2	L_3	L_4	L_7	L_8 h13	i	D_w	B +0.5/0	b P9	t	S	SA	T_{max}	C_{dyn}	C_{stat}	
—	—	—	—	14	—	—	—	10	—	—	2×1	1.59	—	3	1.2	—	—	0.06	1250	2100	10×2
—	—	—	—	20	—	—	—	10	—	—	3×1	1.59	—	3	1.2	—	—	0.06	1750	3200	10×2 ³⁾
—	—	—	—	24	—	—	—	10	—	—	1×3.5	2.00	—	3	2.0	—	—	0.06	2800	5000	10×3
—	—	—	—	24	—	—	—	10	—	—	1×3.5	2.00	—	3	2.0	∅ 3.5	K	0.06	2800	5000	10×3
—	—	—	—	35	—	—	—	10	—	—	4×1	2.50	—	3	1.2	—	—	0.07	4100	6700	10×4
—	—	—	—	35	—	—	—	10	—	—	4×1	2.50	—	3	1.2	∅ 2	K	0.07	4100	6700	10×4
—	—	—	—	26	—	—	—	10	—	—	2×1.5	2.00	—	3	2.0	—	—	0.06	2500	4500	10×10
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	M16×1	22	—	8	—	—	—	—	2×1	1.59	2.5	—	—	—	—	0.06	1250	2100	10×2
—	—	—	M16×1	28	—	8	—	—	—	—	3×1	1.59	2.5	—	—	—	—	0.06	1750	3200	10×2 ³⁾
—	—	—	M17×1	22	—	7	—	—	—	—	1×3.5	1.59	2.5	—	—	—	—	0.06	2300	4000	10×2
—	—	—	M17×1	22	—	7	—	—	—	—	1×3.5	1.59	2.5	—	—	∅ 2	K	0.06	2300	4000	10×2
—	—	—	M18×1	29	—	8	—	—	—	—	3×1	2.00	2.5	—	—	—	—	0.06	2400	4200	10×3
—	—	—	M18×1	29	—	8	—	—	—	—	3×1	2.00	2.5	—	—	∅ 2	K	0.06	2400	4200	10×3
—	—	—	M18×1	29	—	9	—	—	—	—	1×3.5	2.00	3.0	—	—	—	—	0.06	2800	5000	10×3
—	—	—	M18×1	29	—	9	—	—	—	—	1×3.5	2.00	3.0	—	—	∅ 2	K	0.06	2800	5000	10×3
—	—	—	M24×1.5	27	—	10	—	—	—	—	1×3.7	2.00	3.0	—	—	∅ 2	K	0.06	3500	6300	10×3
—	—	—	M18×1	40	—	8	—	—	—	—	4×1	2.50	2.5	—	—	—	—	0.07	4100	6700	10×4
—	—	—	M18×1	40	—	8	—	—	—	—	4×1	2.50	2.5	—	—	∅ 2	K	0.07	4100	6700	10×4
—	—	—	M18×1	35	—	9	—	—	—	—	2×1.5	2.00	3.0	—	—	—	—	0.06	2500	4500	10×10
—	—	—	M18×1	35	—	9	—	—	—	—	2×1.5	2.00	3.0	—	—	∅ 4	K	0.06	2500	4500	10×10
—	—	—	M24×1.5	27	—	10	—	—	—	—	2×1.7	2.00	3.0	—	—	∅ 2	K	0.06	3200	5900	10×10
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
28	4.5	36	—	38	6	—	—	—	6	23	4×1	2.50	—	—	—	—	—	0.07	4100	6700	10×4
28	4.5	36	—	38	6	—	—	—	6	23	4×1	2.50	—	—	—	∅ 2	K	0.07	4100	6700	10×4
29	4.5	37	—	40	6	—	—	—	8	24	2×1.5	2.00	—	—	—	M5	K	0.06	2500	4500	10×10
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
32	4.5	40	—	27	5	—	4	—	7	—	1×3.7	2.00	—	—	—	∅ 3	K	0.06	3500	6300	10×3
32	4.5	40	—	27	5	—	4	—	7	—	2×1.7	2.00	—	—	—	∅ 4	K	0.06	3200	5900	10×10
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



i = number of ball circulations [—]
 D_w = ball diameter [mm]
 B = pin wrench hole* [mm]
 S = lubrication hole* [mm]

SA = wipers (details > page 9)
 K = technopolymer wipers
 B = brush wipers
 F = felt rings (on request)

T_{max} = max. standard backlash [mm]
³⁾ = only on request
 * position not defined
 Special designs available on request

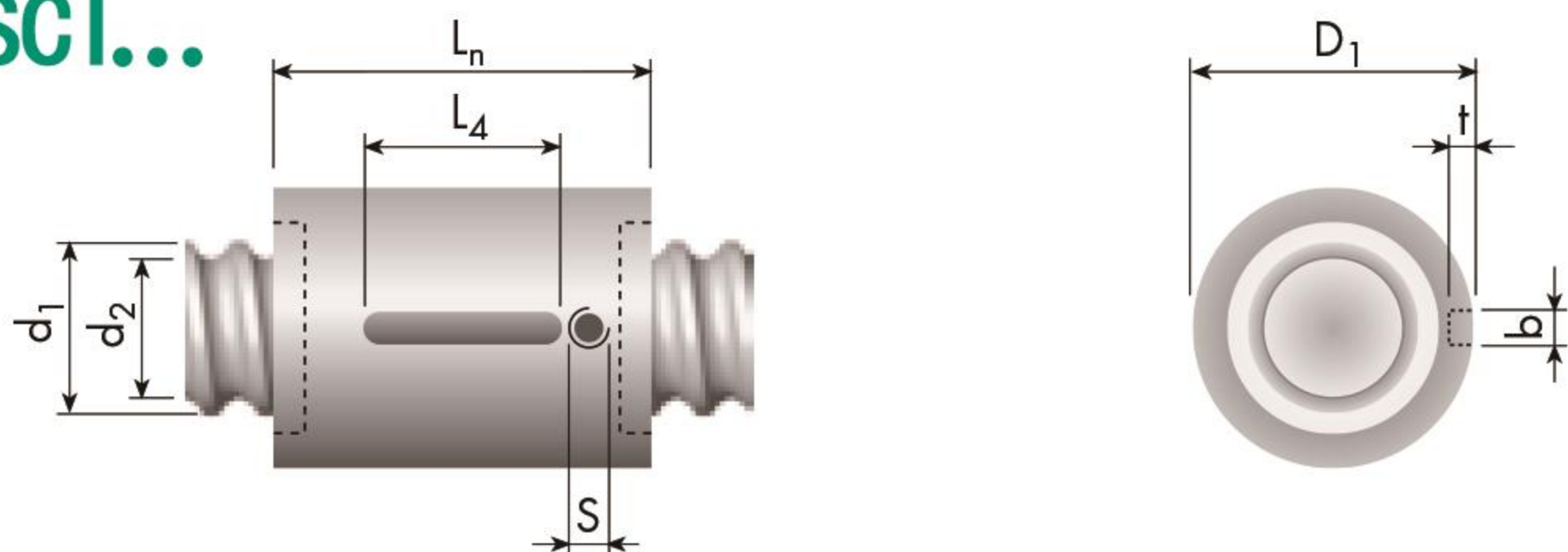
! When selecting a ballscrew, always observe the maximum rotational speed dependent on the system-specific rotational speed characteristics!
 Calculation > page 12

Carry ballscrews

Ø12

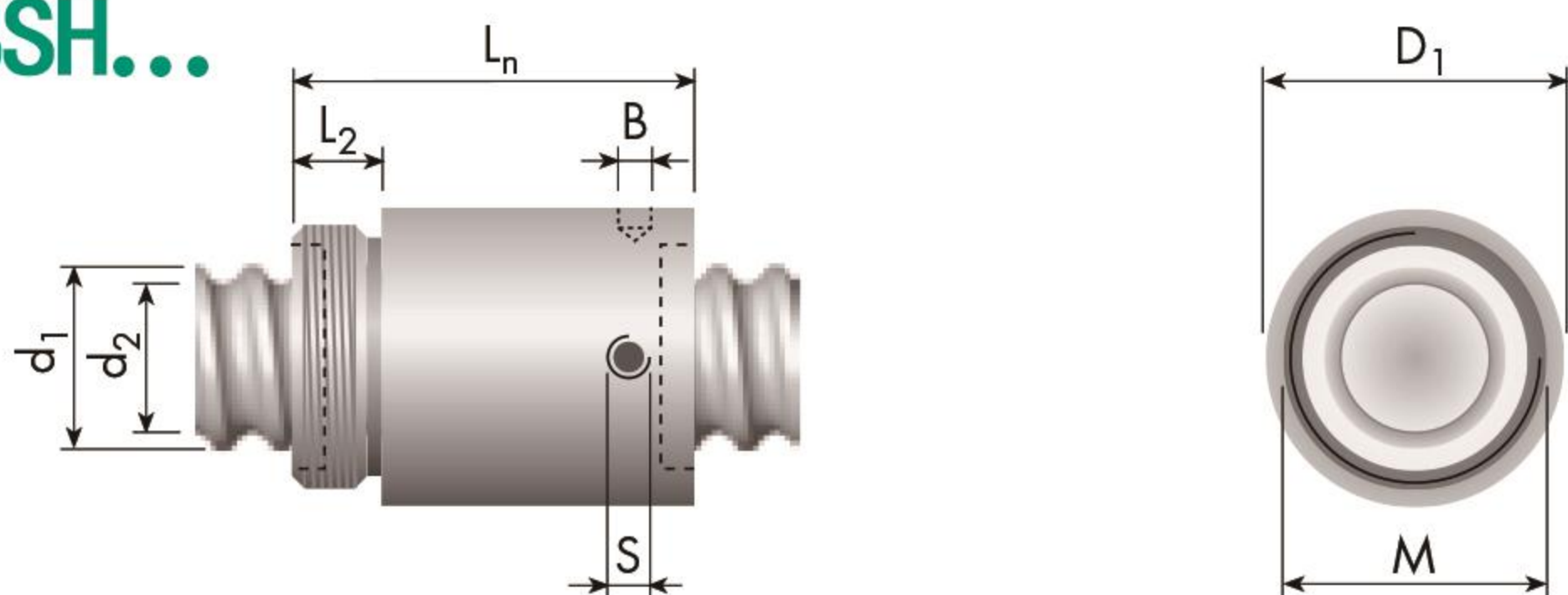
Cylindrical nut

SCI...



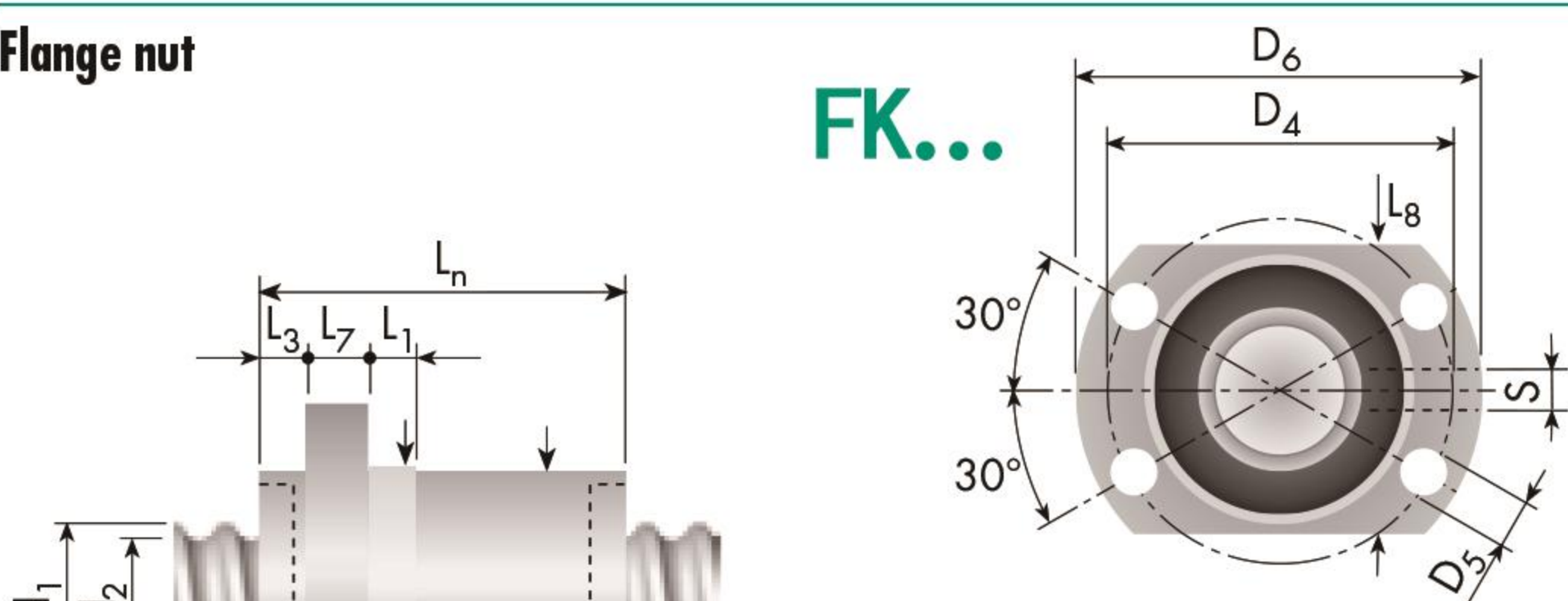
Nut with mounting thread

BSH...

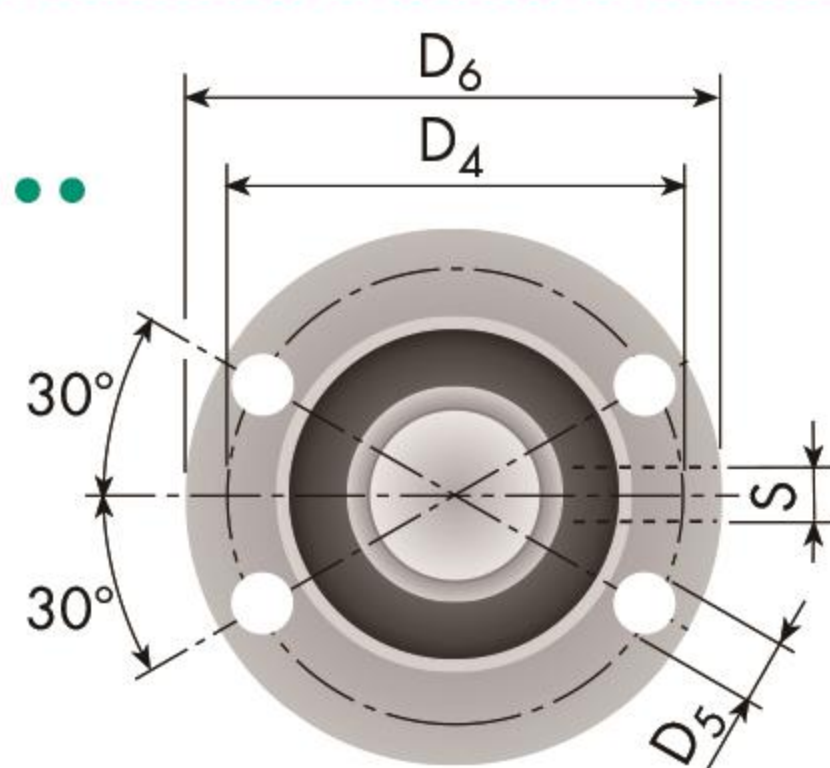


Flange nut

FK...



FA...



Nominal size $d_0 \times p$ [mm]	Ball return Type	Relative cost	Right-/left-hand thread	Dimensions [mm]			
				Screw d_1	d_2	Nut D_1	D_2
12×2	...I	€€€	RH / —	12.0	10.6	20 _{g6}	—
12×2 ³⁾	...I	€€€	RH / LH	12.0	10.6	20 _{g6}	—
12×4	...R	€€€	RH / —	12.0	9.8	26 _{g6}	—
12×4	...R	€€€	RH / —	12.0	9.8	26 _{g6}	—
12×2	...I	€€	RH / —	12.0	10.6	20 _{0/-0.1}	—
12×2 ³⁾	...I	€€	RH / LH	12.0	10.6	20 _{0/-0.1}	—
12×4	...I	€€	RH / —	12.0	9.8	24 _{0/-0.1}	—
12×4	...I	€€	RH / —	12.0	9.8	24 _{0/-0.1}	—
12×4	...R	€€	RH / —	12.0	9.8	26 _{0/-0.1}	—
12×4	...R	€€	RH / —	12.0	9.8	26 _{0/-0.1}	—
12×5	...I	€€	RH / —	12.0	9.5	23 _{0/-0.1}	—
12×5	...I	€€	RH / —	12.0	9.5	23 _{0/-0.1}	—
12×5	...R	€€	RH / LH	12.0	9.5	26 _{0/-0.1}	—
12×5	...R	€€	RH / —	12.0	9.5	26 _{0/-0.1}	—
12×5	...F	€	RH / —	12.0	9.5	32 _{0/-0.1}	—
12×10	...R	€€	RH / —	11.9	9.7	26 _{0/-0.1}	—
12×10	...F	€	RH / —	11.9	9.7	32 _{0/-0.1}	—
12×12	...F	€	RH / —	12.0	9.7	32 _{0/-0.1}	—
12×2	...R	€€€	RH / —	12.0	10.6	22 _{g6}	21.5
12×3	...R	€€€	RH / —	12.3	10.2	24 _{g6}	23.5
12×4	...R	€€€	RH / —	12.0	9.8	26 _{g6}	25.5
12×5	...I	€€€	RH / —	12.0	9.5	24 _{g6}	23.5
12×5	...R	€€€	RH / —	12.0	9.5	26 _{g6}	25.5
12×5	...F	€€	RH / —	12.0	9.5	26 _{-0.01/-0.06}	25.5
12×10	...F	€€	RH / —	11.9	9.7	26 _{-0.01/-0.06}	25.5
12×12	...F	€€	RH / —	12.0	9.7	26 _{-0.01/-0.06}	25.5

Ball return systems



Legend

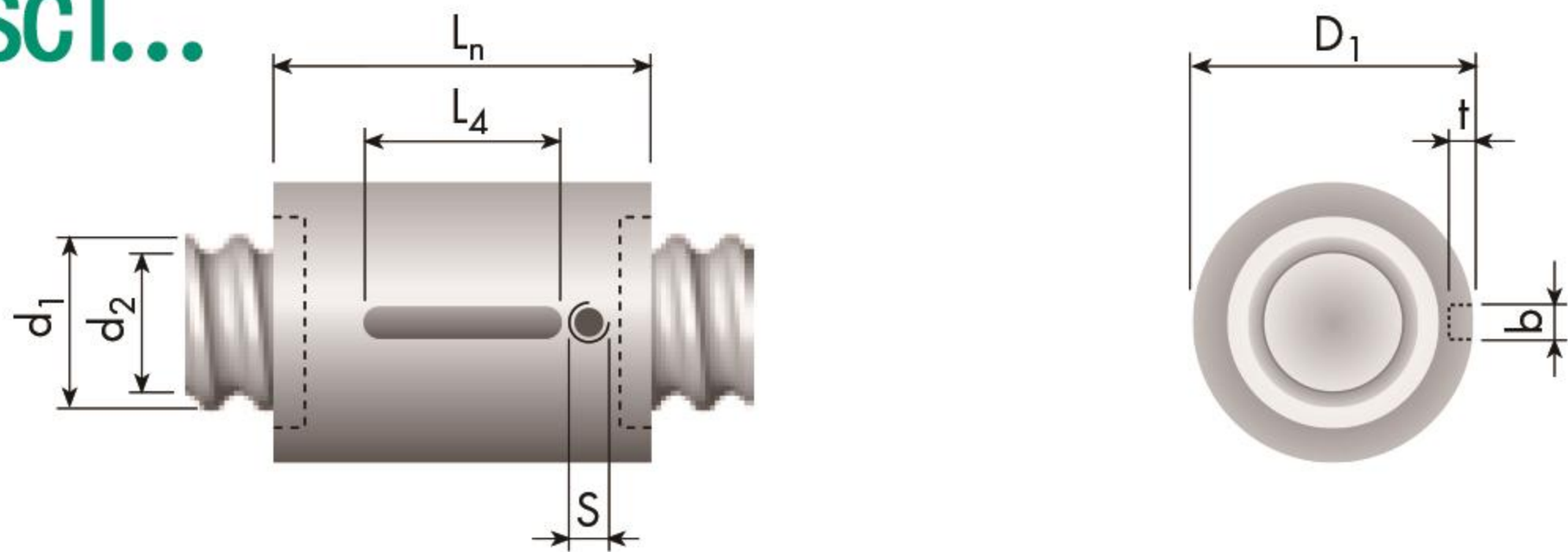
- d_0 = nominal screw diameter [mm]
- d_1 = outer screw diameter [mm]
- d_2 = core diameter [mm]
- p = pitch [mm]

Carry ballscrews

Ø12.7 (1/2")

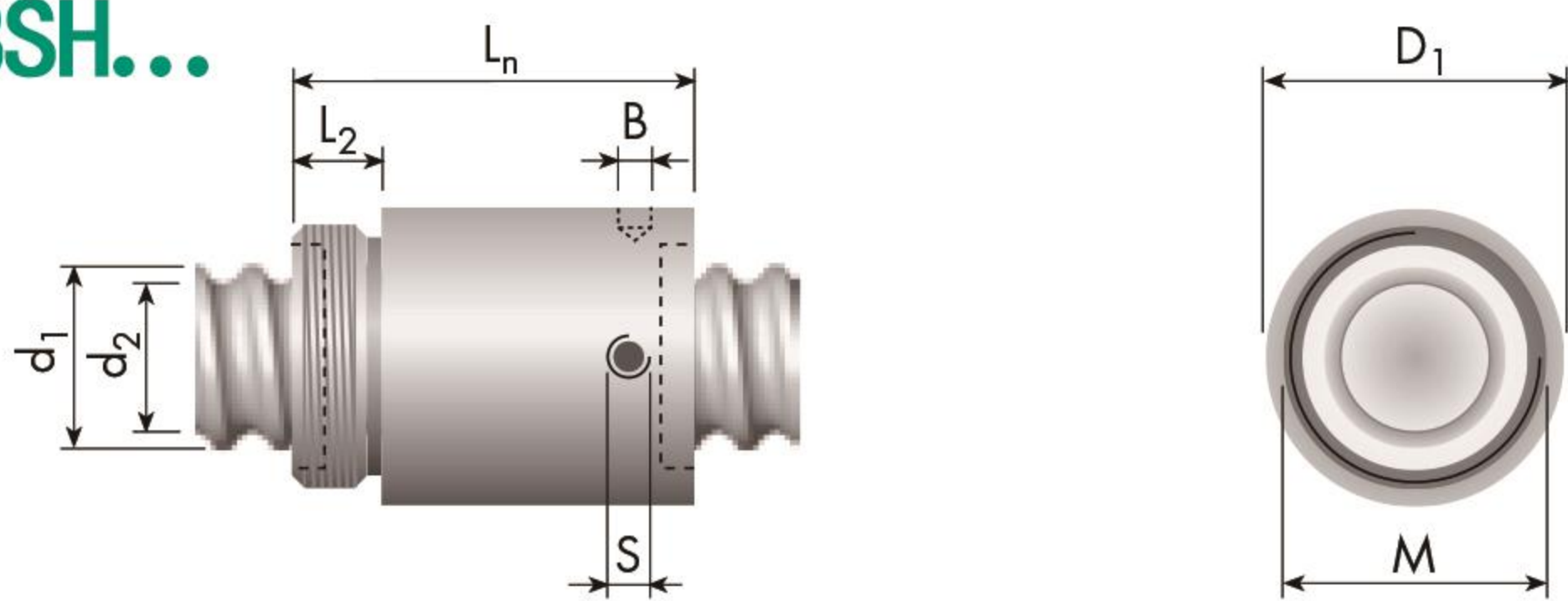
Cylindrical nut

SCI...



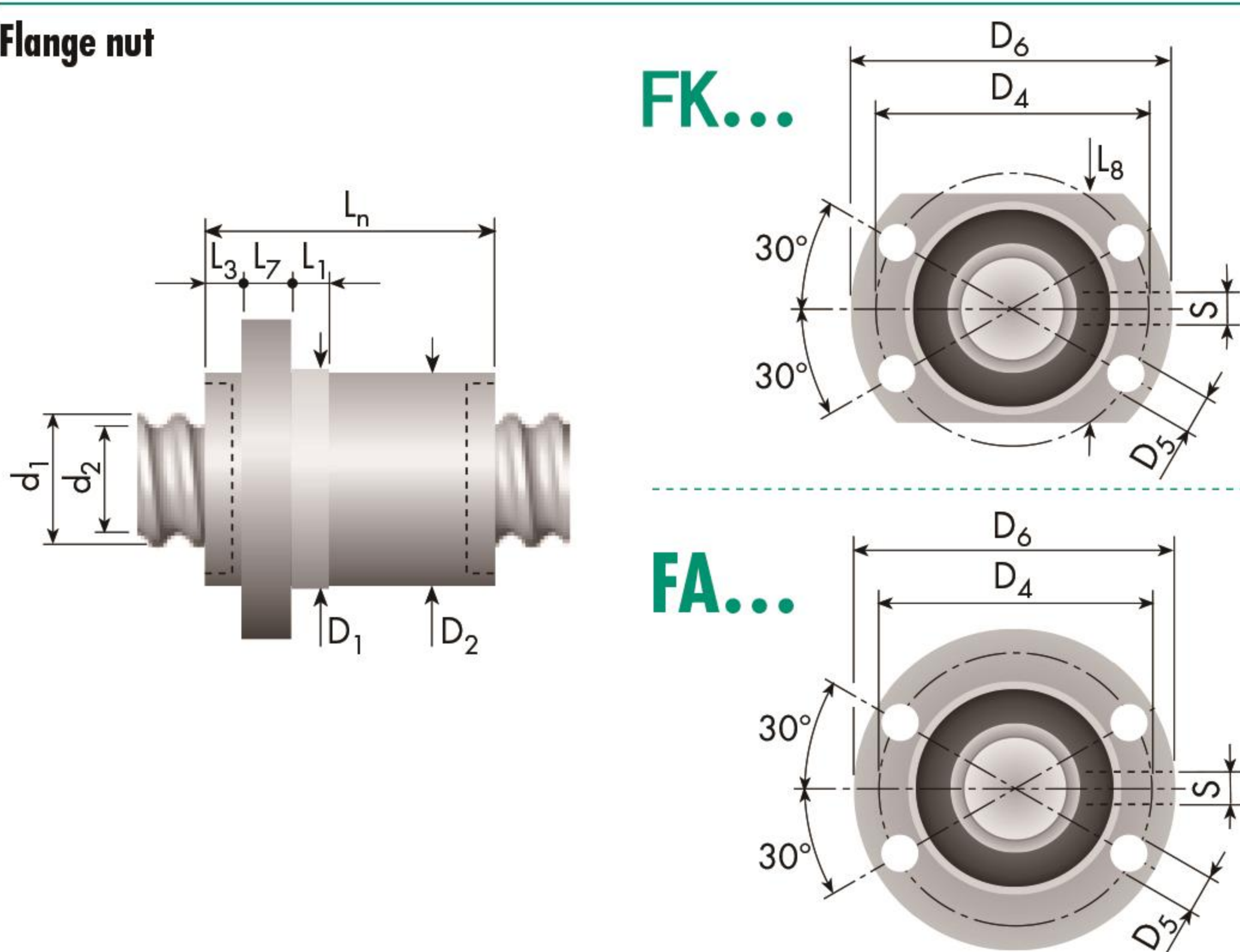
Nut with mounting thread

BSH...

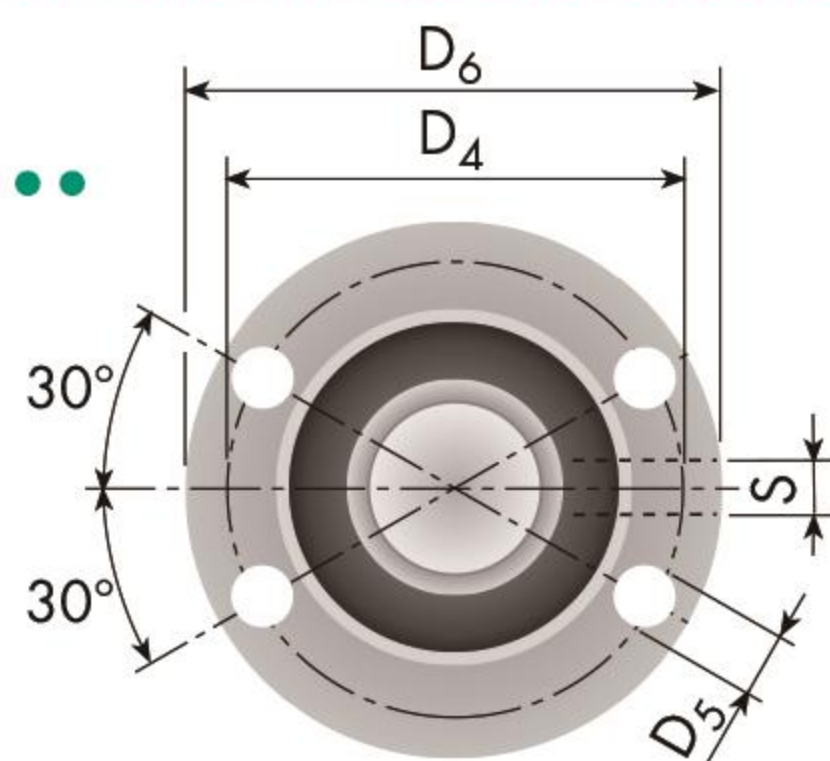


Flange nut

FK...



FA...



Nominal size $d_0 \times p$ [mm] (in)	Ball return Type	Relative cost	Right-/ left-hand thread	Dimensions [mm]			
				Screw d_1	d_2	Nut D_1	D_2
12.7 × 25.4 (1/2" × 1")	...E	€€€	RH / —	12.5	10.6	26 g6	—
12.7 × 12.7 (1/2" × 1/2")	...R	€€	RH / —	13.1	10.3	29.5 0/-0.1	—
12.7 × 12.7 (1/2" × 1/2")	...R	€€	RH / —	13.1	10.3	29.5 0/-0.1	—
12.7 × 25.4 (1/2" × 1")	...E	€€	RH / —	12.5	10.6	26 g6	25.5

Ball return systems



Legend

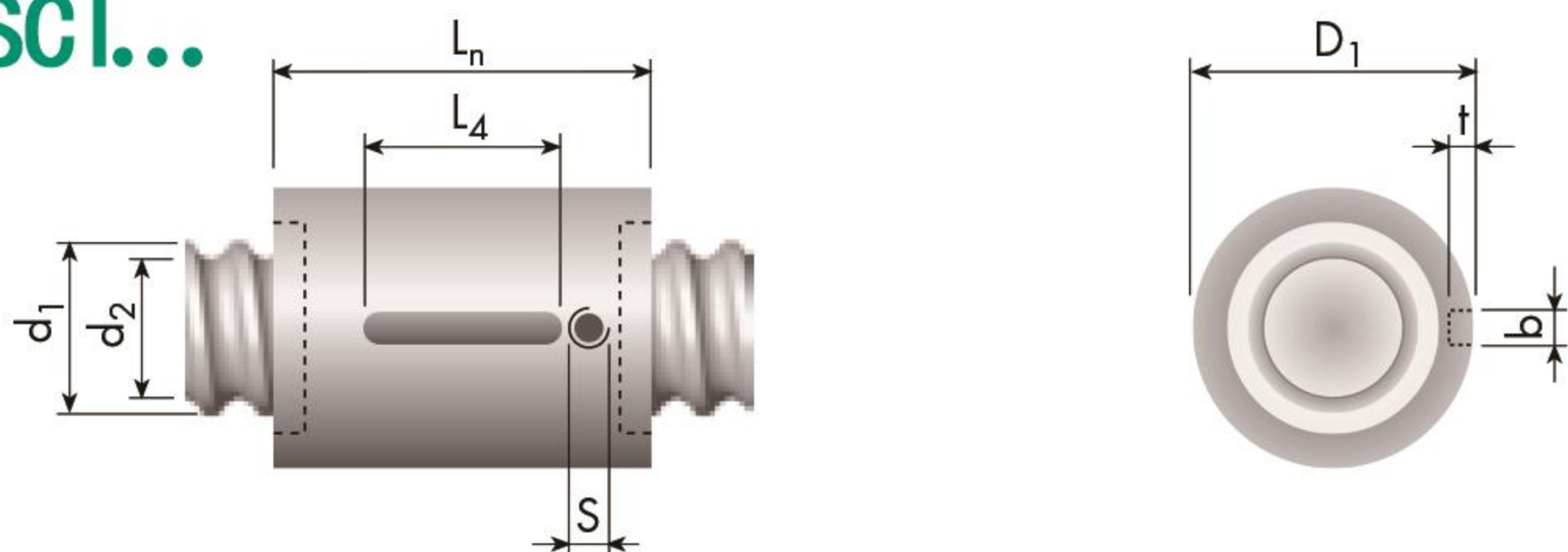
- d_0 = nominal screw diameter [mm]
- d_1 = outer screw diameter [mm]
- d_2 = core diameter [mm]
- p = pitch [mm]

Carry ballscrews

Ø14

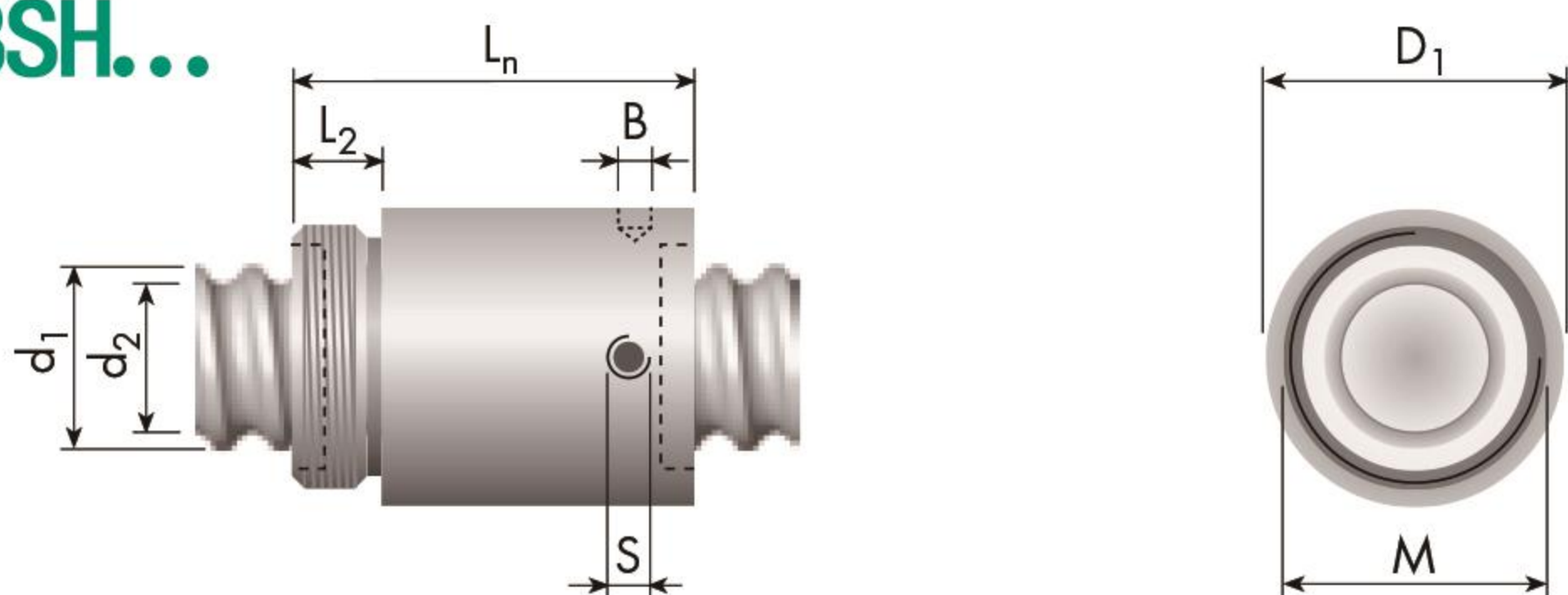
Cylindrical nut

SCI...



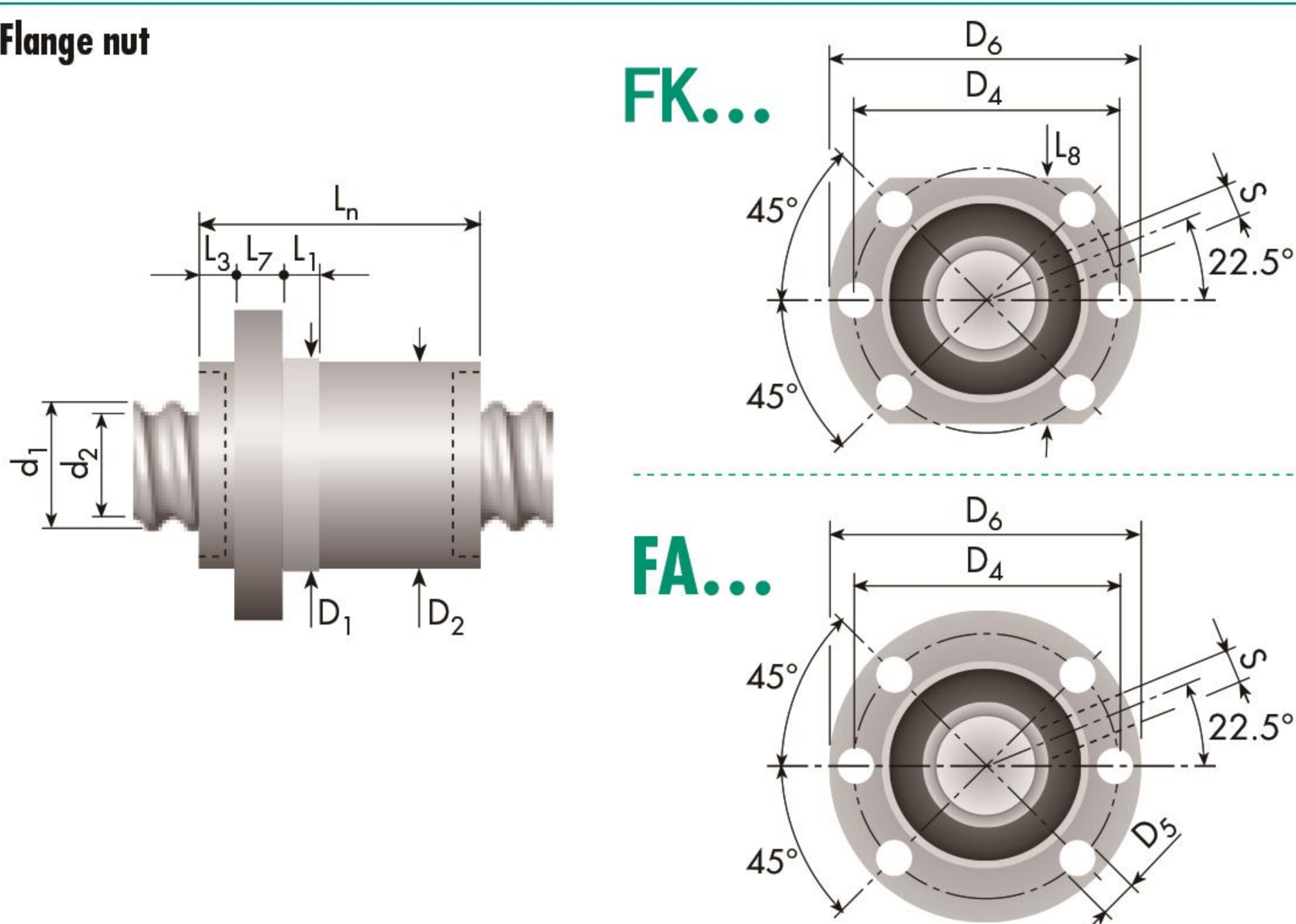
Nut with mounting thread

BSH...



Flange nut

FK...



FA...

Nominal size $d_0 \times p$ [mm]	Ball return Type	Relative cost	Right-/left-hand thread	Dimensions [mm]			
				Screw d_1	d_2	Nut D_1	D_2
14 × 4	...I	€€€	RH / —	14.0	11.5	25 _{g6}	—
14 × 4	...I	€€€	RH / —	14.0	11.5	25 _{g6}	—
14 × 4	...R	€€€	RH / LH	14.0	11.5	29 _{g6}	—
14 × 4	...R	€€€	RH / LH	14.0	11.5	29 _{g6}	—
14 × 2	...R	€€	RH / —	14.0	12.5	26 _{0/-0.1}	—
14 × 2	...R	€€	RH / —	14.0	12.5	26 _{0/-0.1}	—
14 × 4	...I	€€	RH / —	14.0	11.5	25 _{0/-0.1}	—
14 × 4	...I	€€	RH / —	14.0	11.5	25 _{0/-0.1}	—
14 × 4	...R	€€	RH / LH	14.0	11.5	29 _{0/-0.1}	—
14 × 4	...R	€€	RH / LH	14.0	11.5	29 _{0/-0.1}	—
14 × 2	...R	€€€	RH / —	14.0	12.5	26 _{g6}	25.5
14 × 4	...R	€€€	RH / LH	14.0	11.5	29 _{g6}	28.6

Ball return systems

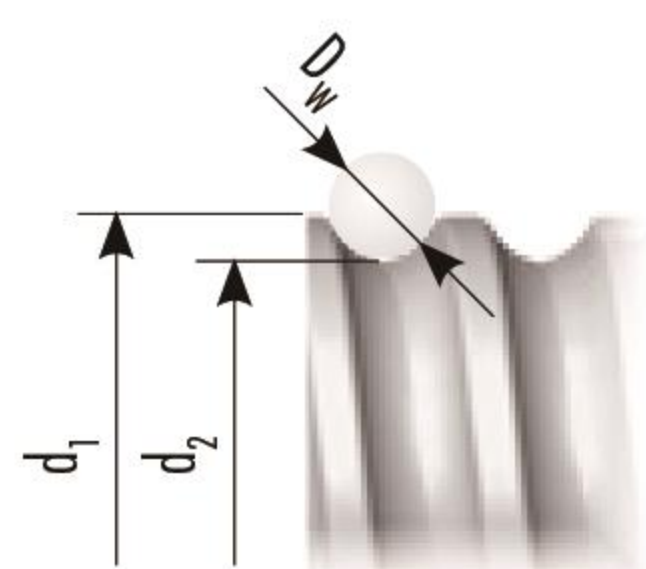


Legend

- d_0 = nominal screw diameter [mm]
- d_1 = outer screw diameter [mm]
- d_2 = core diameter [mm]
- p = pitch [mm]

Carry ballscrews Ø14

																			Load rates [N]		Nominal size $d_0 \times p$ [mm]
D_4 TK	D_5 H13	D_6 h13	M	L_n	L_1	L_2	L_3	L_4	L_7	L_8 h13	i	D_w	B +0.5/0	b P9	t	S	SA	T_{max}	C_{dyn}	C_{stat}	
—	—	—	—	24	—	—	—	10	—	—	3×1	2.78	—	4	2.5	—	—	0.07	5000	8800	14×4
—	—	—	—	32	—	—	—	10	—	—	3×1	2.78	—	4	2.5	∅4	K	0.07	5000	8800	14×4
—	—	—	—	24	—	—	—	16	—	—	1×3.5	2.78	—	4	2.5	—	—	0.07	8100	16000	14×4
—	—	—	—	32	—	—	—	16	—	—	1×3.5	2.78	—	4	2.5	∅4	K	0.07	8100	16000	14×4
—	—	—	M22×1.5	32	—	10	—	—	—	—	2×2.5	1.59	3.0	—	—	—	—	0.06	4500	10000	14×2
—	—	—	M22×1.5	32	—	10	—	—	—	—	2×2.5	1.59	3.0	—	—	∅2	K	0.06	4500	10000	14×2
—	—	—	M22×1.5	34	—	10	—	—	—	—	3×1	2.78	2.5	—	—	—	—	0.07	5000	8800	14×4
—	—	—	M22×1.5	38	—	10	—	—	—	—	3×1	2.78	2.5	—	—	∅4	K	0.07	5000	8800	14×4
—	—	—	M22×1.5	32	—	8	—	—	—	—	1×3.5	2.78	3.0	—	—	—	—	0.07	8100	16000	14×4
—	—	—	M22×1.5	38	—	10	—	—	—	—	1×3.5	2.78	3.0	—	—	∅4	K	0.07	8100	16000	14×4
32	4.5	39.5	—	32	5	—	—	—	7	28	2×2.5	1.59	—	—	—	∅4	K	0.06	4500	10000	14×2
38	5.5	48	—	40	6	—	—	—	8	36	1×3.5	2.78	—	—	—	M5	K	0.07	8100	16000	14×4



i = number of ball circulations [—]
 D_w = ball diameter [mm]
 B = pin wrench hole* [mm]
 S = lubrication hole* [mm]

SA = wipers (details > page 9)
 K = technopolymer wipers
 B = brush wipers
 F = felt rings (on request)

T_{max} = max. standard backlash [mm]
³⁾ = only on request
 * position not defined
 Special designs available on request

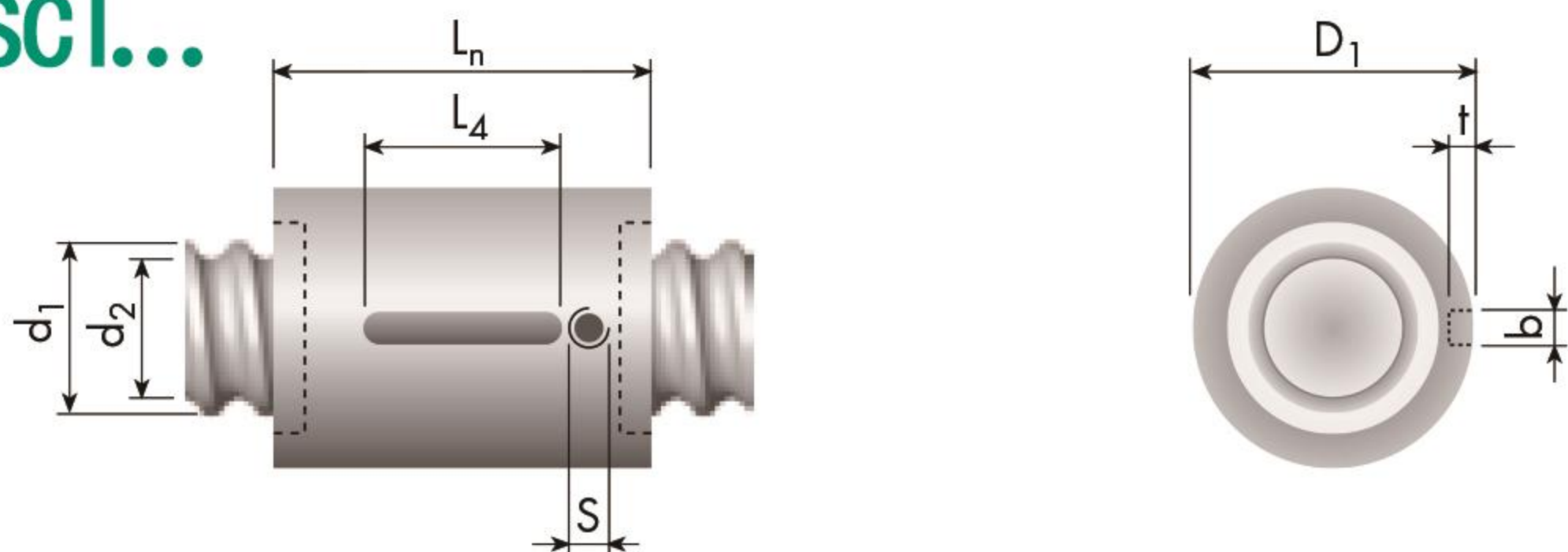
! When selecting a ballscrew, always observe the maximum rotational speed dependent on the system-specific rotational speed characteristics!
 Calculation > page 12

Carry ballscrews

Ø15/16

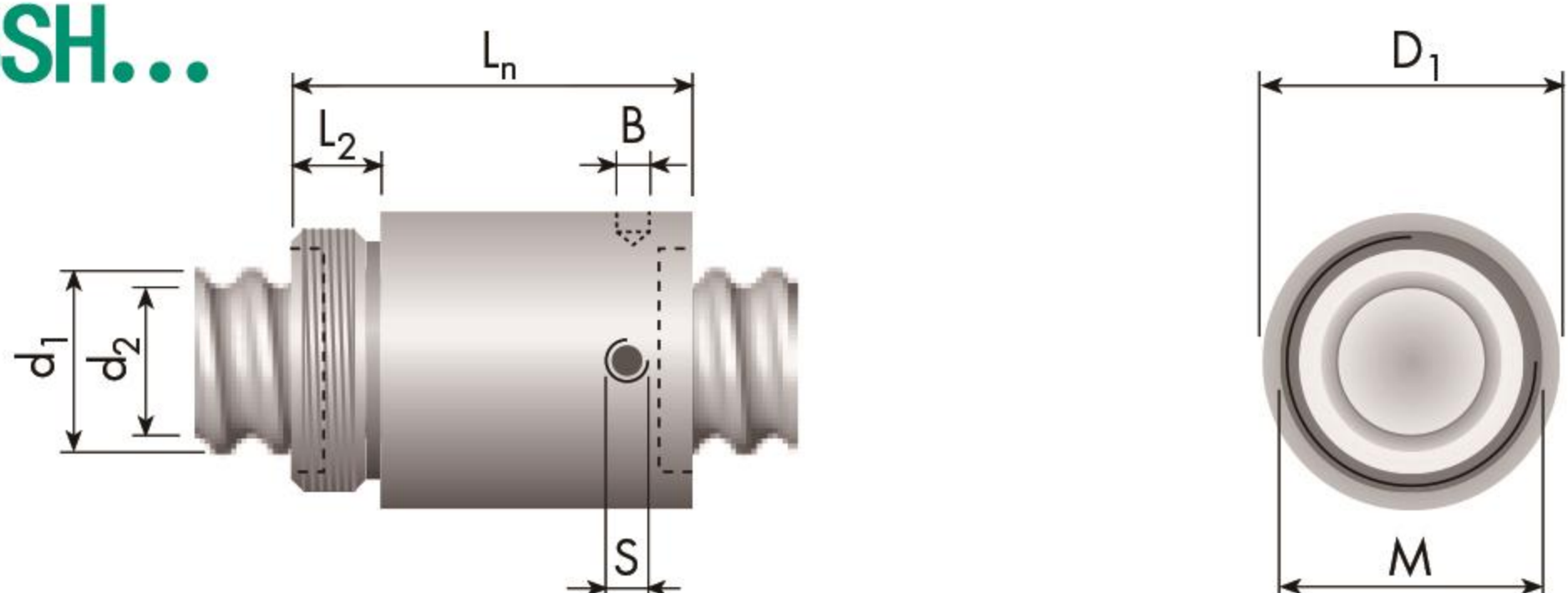
Cylindrical nut

SCI...



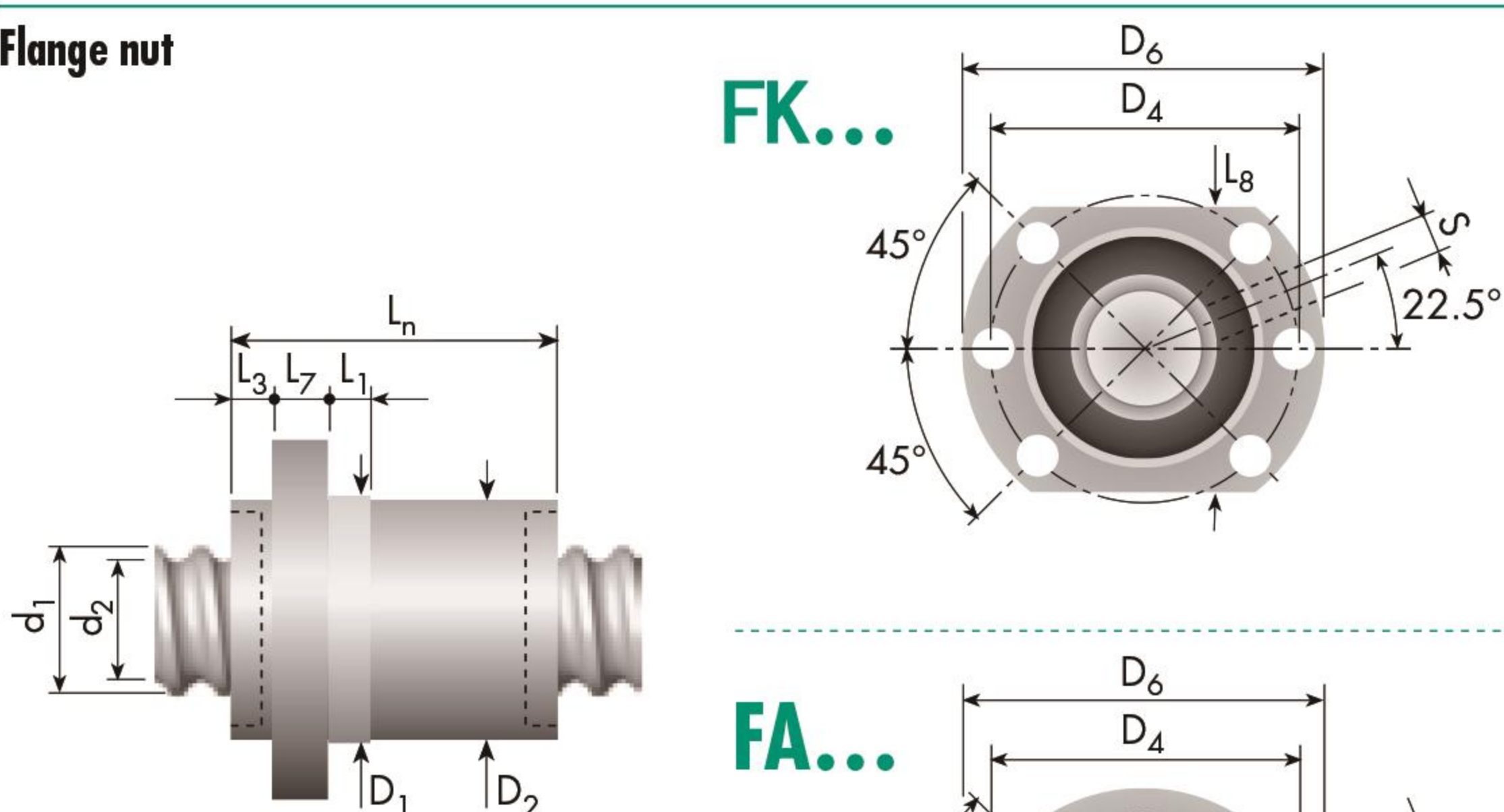
Nut with mounting thread

BSH...

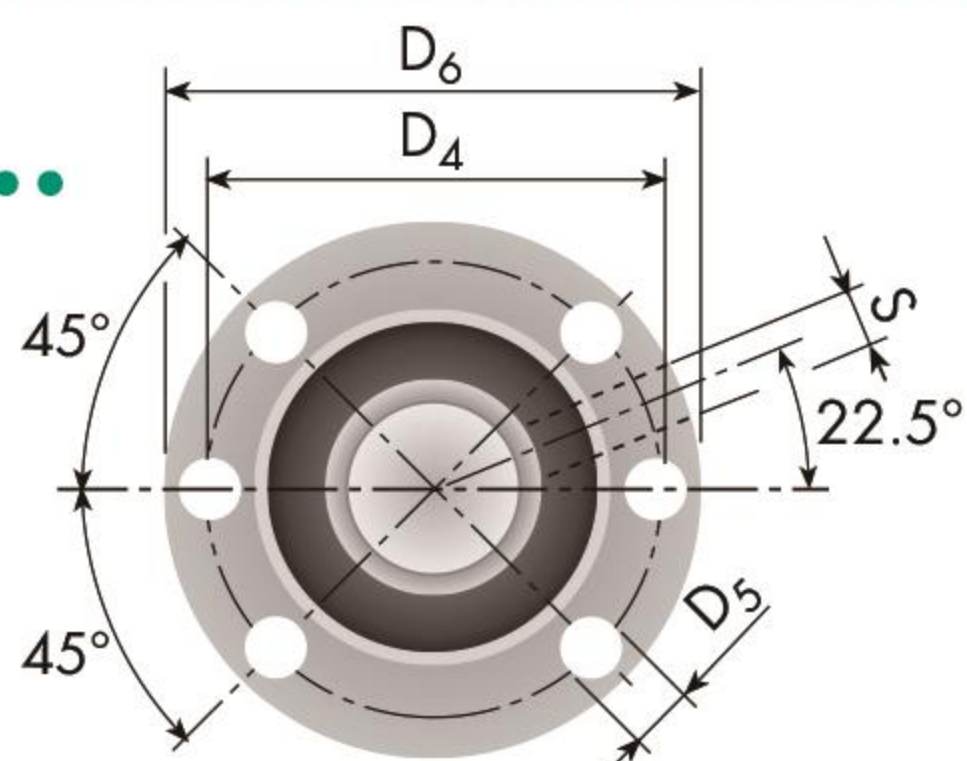


Flange nut

FK...



FA...



Nominal size $d_0 \times p$ [mm]	Ball return Type	Relative cost	Right/ left-hand thread	Dimensions [mm]			
				Screw d_1	d_2	Nut D_1	D_2
16×5	...I	€€€	RH / LH	15.7	13.0	30 _{g6}	—
16×10	...R	€€€	RH / —	15.7	13.0	32 _{g6}	—
16×10	...R	€€€	RH / —	15.7	13.0	32 _{g6}	—
16×10	...E	€€€	RH / —	16.0	13.4	28 _{g6}	—
16×16	...E	€€€	RH / —	15.5	13.2	28 _{g6}	—
16×50	...E	€€€	RH / —	16.0	13.2	28 _{g6}	—
15×20	...F	€	RH / —	14.9	12.0	36 _{0/-0.1}	—
16×2	...I	€€	— / LH	16.0	14.5	25 _{0/-0.1}	—
16×2	...R	€€	RH / —	16.0	14.5	30 _{0/-0.1}	—
16×2	...R	€€	RH / —	16.0	14.5	30 _{0/-0.1}	—
16×5	...I	€€	RH / —	15.7	13.0	30.2 _{0/-0.1}	—
16×5	...I	€€	RH / LH ³⁾	15.7	13.0	30.2 _{0/-0.1}	—
16×5	...R	€€	RH / LH	15.7	13.0	32 _{0/-0.1}	—
16×5	...R	€€	RH / LH	15.7	13.0	32 _{0/-0.1}	—
16×10	...R	€€	RH / —	15.7	13.0	32 _{0/-0.1}	—
16×10	...R	€€	RH / —	15.7	13.0	32 _{0/-0.1}	—
16×10	...R	€€	RH / —	15.7	13.0	32 _{0/-0.1}	—
16×10	...R	€€	RH / —	15.7	13.0	32 _{0/-0.1}	—
16×16	...R	€€	RH / —	15.9	13.2	32 _{0/-0.1}	—
16×16	...F	€	RH / —	15.5	13.2	36 _{0/-0.1}	—
16×2	...R	€€€	RH / —	16.0	14.5	30 _{g6}	29.5
16×2	...R	€€€	RH / —	16.0	14.5	30 _{g6}	29.5
16×5	...I	€€€	RH / LH	15.7	13.0	28 _{g6}	27.8
16×10	...R	€€€	RH / —	15.7	13.0	32 _{g6}	31.5
16×10	...E	€€	RH / —	16.0	13.4	28 _{g6}	27.8
16×16	...E	€€	RH / —	15.5	13.2	28 _{g6}	27.8
16×50	...E	€€	RH / —	16.0	13.2	28 _{g6}	27.8
15×20	...F	€€	RH / —	14.9	12.0	32 _{-0.01/-0.07}	31.5
16×16	...F	€€	RH / —	15.5	13.2	32 _{-0.01/-0.07}	31.5

Ball return systems

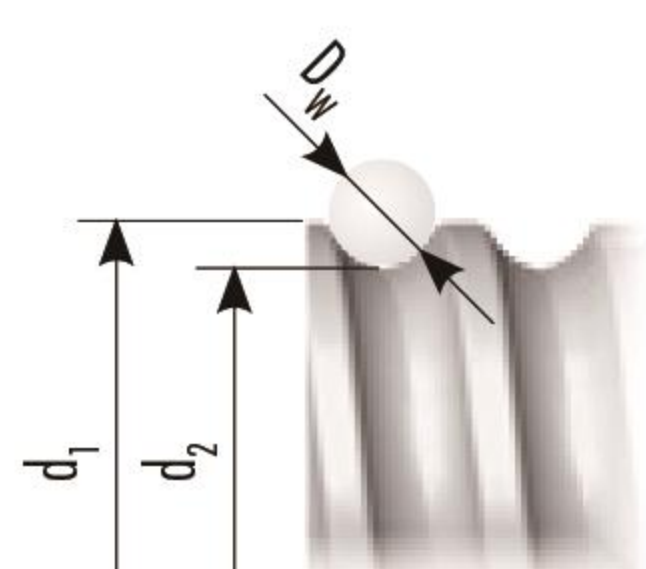


Legend

- d_0 = nominal screw diameter [mm]
- d_1 = outer screw diameter [mm]
- d_2 = core diameter [mm]
- p = pitch [mm]

Carry ballscrews Ø15/16

																			Load rates [N]		Nominal size $d_0 \times p$ [mm]
D_4 TK	D_5 H13	D_6 h13	M	L_n	L_1	L_2	L_3	L_4	L_7	L_8 h13	i	D_w	B +0.5/0	b P9	t	S	SA	T_{max}	C_{dyn}	C_{stat}	
—	—	—	—	43	—	—	—	16	—	—	3×1	3.50	—	4	2.5	M5	K	0.07	9700	22000	16×5
—	—	—	—	45	—	—	—	16	—	—	2×2.5	3.50	—	4	2.5	—	—	0.07	17000	25000	16×10
—	—	—	—	45	—	—	—	16	—	—	2×2.5	3.50	—	4	2.5	∅4	K	0.07	17000	25000	16×10
—	—	—	—	42	—	—	—	16	—	—	2×2.9	3.00	—	4	2.5	∅4	K	0.07	12500	26000	16×10
—	—	—	—	42	—	—	—	16	—	—	2×1.9	3.00	—	4	2.5	∅3	K	0.07	7800	15500	16×16
—	—	—	—	55	—	—	—	16	—	—	3×0.9	3.00	—	4	2.5	∅4	K	0.06	4800	11000	16×50
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	M33×1.5	46	—	19	—	—	—	—	2×1.7	3.00	4.0	—	—	∅4	K	0.07	7100	14700	15×20
—	—	—	M22×1.5	34	—	10	—	—	—	—	3×1	1.59	2.5	—	—	—	—	0.05	2400	5200	16×2
—	—	—	M26×1.5	28	—	12	—	—	—	—	1×2.5	1.59	3.5	—	—	—	—	0.06	2500	5500	16×2
—	—	—	M26×1.5	28	—	12	—	—	—	—	1×2.5	1.59	3.5	—	—	∅2	K	0.06	2500	5500	16×2
—	—	—	M26×1.5	45	—	12	—	—	—	—	3×1	3.50	3.5	—	—	—	—	0.07	9700	22000	16×5
—	—	—	M26×1.5	50	—	12	—	—	—	—	3×1	3.50	3.5	—	—	M5	K	0.07	9700	22000	16×5
—	—	—	M26×1.5	42	—	12	—	—	—	—	1×3.5	3.50	4.0	—	—	—	—	0.07	12000	25000	16×5
—	—	—	M26×1.5	47	—	12	—	—	—	—	1×3.5	3.50	4.0	—	—	M5	K	0.07	12000	25000	16×5
—	—	—	M26×1.5	47	—	12	—	—	—	—	1×2.5	3.50	4.0	—	—	—	—	0.07	8500	12500	16×10
—	—	—	M26×1.5	52	—	12	—	—	—	—	1×2.5	3.50	4.0	—	—	∅4	K	0.07	8500	12500	16×10
—	—	—	M26×1.5	47	—	12	—	—	—	—	2×2.5	3.50	4.0	—	—	—	—	0.07	17000	25000	16×10
—	—	—	M26×1.5	52	—	12	—	—	—	—	2×2.5	3.50	4.0	—	—	∅4	K	0.07	17000	25000	16×10
—	—	—	M26×1.5	47	—	12	—	—	—	—	3×1.5	3.00	4.0	—	—	—	—	0.07	9150	18750	16×16
—	—	—	M33×1.5	41	—	19	—	—	—	—	2×1.6	3.00	4.0	—	—	∅4	K	0.07	6700	13700	16×16
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
38	5.5	48	—	45	6	—	—	—	10	40	2×2.5	1.59	—	—	—	M6	K	0.06	4500	11000	16×2
38	5.5	48	—	45	6	—	—	—	10	40	3×2.5	1.59	—	—	—	M6	K	0.06	6000	15000	16×2
38	5.5	48	—	45	6	—	—	—	10	40	3×1	3.50	—	—	—	M6	K	0.07	9700	22000	16×5
43	6.6	54	—	52	6	—	—	—	12	44	2×2.5	3.50	—	—	—	M6	K	0.07	17000	25000	16×10
38	5.5	48	—	42	10	—	10	—	10	40	2×2.9	3.00	—	—	—	∅4	K	0.07	12500	26000	16×10
38	5.5	48	—	42	10	—	10	—	10	40	2×1.9	3.00	—	—	—	∅4	K	0.07	7800	15500	16×16
38	5.5	48	—	55	10	—	10	—	10	40	3×0.9	3.00	—	—	—	∅4	K	0.06	4800	11000	16×50
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
42	5.5	52	—	46	10	—	10	—	10	—	2×1.7	3.00	—	—	—	∅4	K	0.07	7100	14700	15×20
42	5.5	52	—	41	10	—	10	—	10	—	2×1.6	3.00	—	—	—	∅4	K	0.07	6700	13700	16×16
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



i = number of ball circulations [—]
 D_w = ball diameter [mm]
 B = pin wrench hole* [mm]
 S = lubrication hole* [mm]
 SA = wipers (details > page 9)
 K = technopolymer wipers
 B = brush wipers
 F = felt rings (on request)

T_{max} = max. standard backlash [mm]
³⁾ = only on request
 * position not defined
 Special designs available on request

! When selecting a ballscrew, always observe the maximum rotational speed dependent on the system-specific rotational speed characteristics!
 Calculation > page 12



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