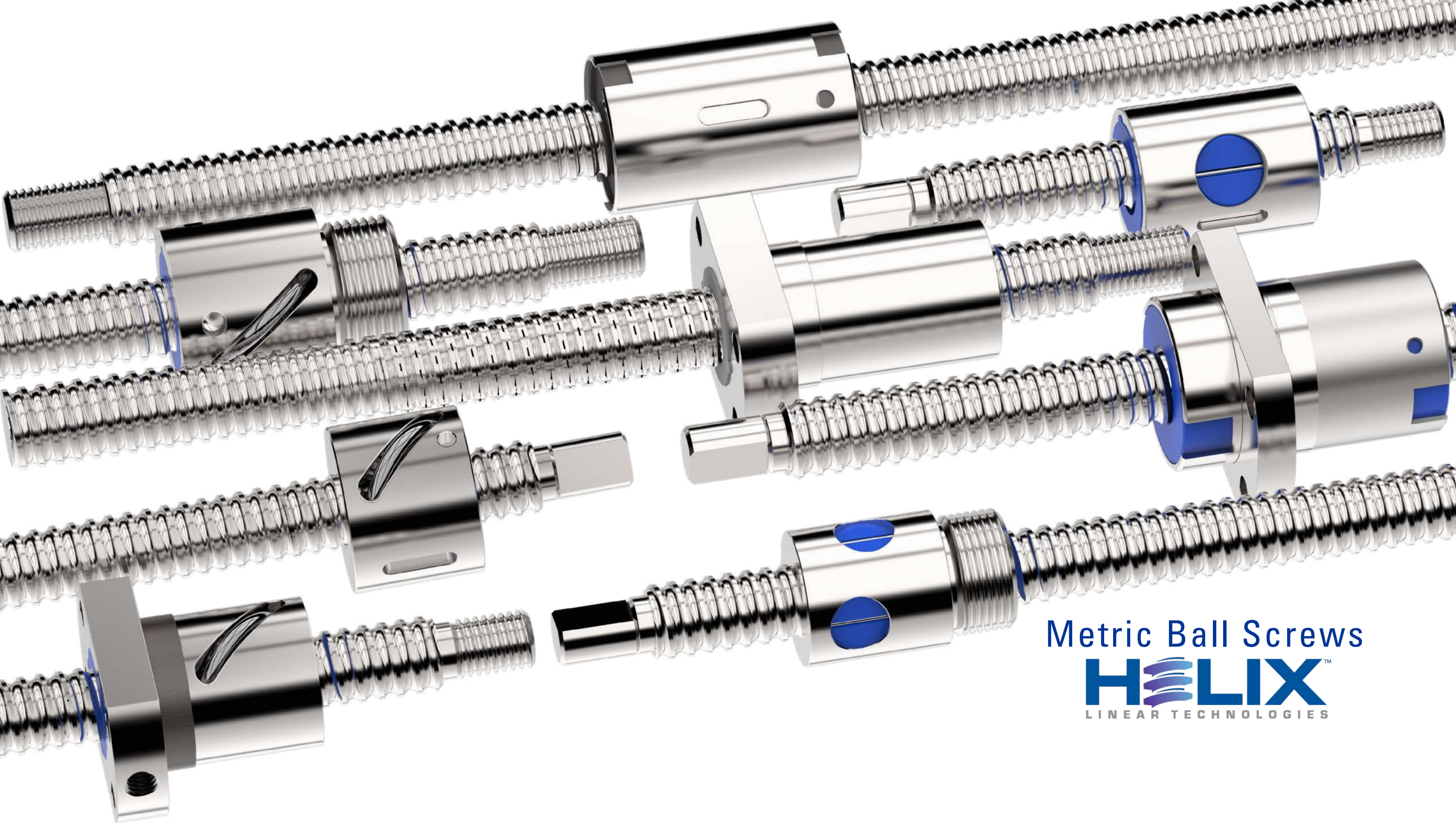


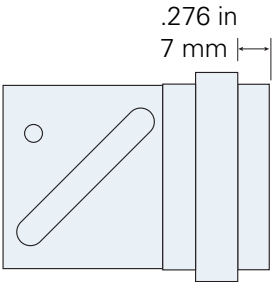
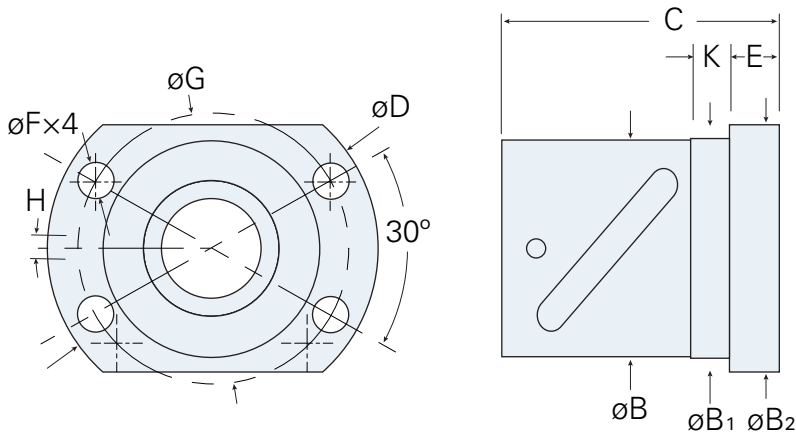


Metric Ball Screws
HELIX[™]
LINEAR TECHNOLOGIES

FBR Ball Nuts

with Square Mounting Flange and Tube Ball Returns

ø8 - 12.7mm



ø12.7 mm side view

Size	Nominal Diameter mm	Lead mm	B _{g6} mm	B ₁ mm	B ₂ mm	C mm	D mm	E mm	F mm	G mm	øH mm	K mm	Circuits	Ball Diameter mm	Dynamic Load N	Static Load N
8×2	8	2	17.5	18	19	25	28	6	3.4	22	4	4	1×3.5	1.59	2,000	3,200
10×10	10	10	22.5	23	24	40	37	8	4.5	29	M5	6	2×1.5	2.00	2,500	4,500
12×2	12	2	21.5	22	24	30	37	8	4.5	29	4	5	1×3.5	1.59	2,500	5,100
12×3	12	3	23.5	24	26	36	40	8	4.5	32	-	5	2×2.5	2.00	5,000	11,000
12×4	12	4	25.5	26	28	36	39.5	8	4.5	32	M5	5	1×3.5	2.50	5,500	11,000
12×5	12	5	25.5	26	28	40	39.5	7	4.5	32	M5	5	1×3.5	2.78	6,600	12,000
12.7×25.4	12.7	25.4	25.5	26	28	32	42	8	4.5	33	4	5	3×0.9	2.00	2,300	4,500

Quick Links

Square Flange

Tube Ball Returns

End-Cap Ball Returns

Single-Thread Ball Returns

Round Flange

End-Cap Ball Returns

Mounting Thread

Tube Ball Returns

End-Cap Ball Returns

Single-Thread Ball Returns

Cylindrical Nuts

Tube Ball Returns

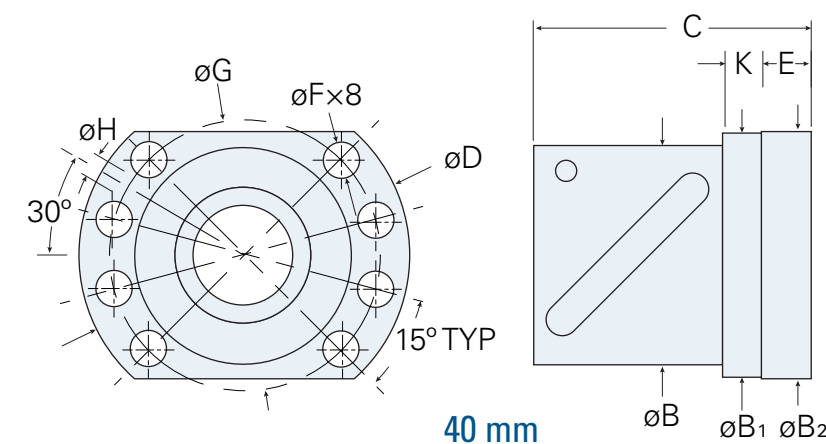
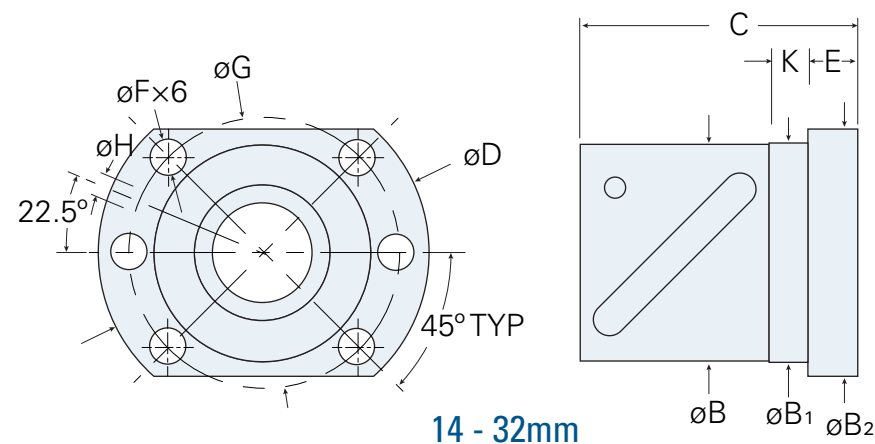
End-Cap Ball Returns

Single-Thread Ball Returns

FBR Ball Nuts

with Square Mounting Flange and Tube Ball Returns

ø14 - 40mm



Size	Nominal Diameter mm	Lead mm	B _{g6} mm	B ₁ mm	B ₂ mm	C mm	D mm	E mm	F mm	G mm	øH mm	K mm	Circuits	Ball Diameter mm	Dynamic Load N	Static Load N
14x2	14	2	25.5	26	28	32	39.5	7	4.5	32	4	5	2x2.5	1.59	4,500	10,000
14x4	14	4	28.6	29	36	40	48	8	5.5	38	M5	6	1x3.5	2.78	8,100	16,000
16x2	16	2	29.5	30	40	45	48	10	5.5	38	M6	6	2x2.5	1.59	4,500	11,000
16x2	16	2	29.5	30	40	45	48	10	5.5	38	M6	6	3x2.5	1.59	6,000	15,000
16x10	16	10	31.5	32	44	52	54	12	6.6	43	M6	6	2x2.5	3.5	17,000	25,000
20x10	20	10	37.5	38	48	55	62	10	6.6	50	M6	7	2x2.5	3.5	21,000	51,000
20x10	20	10	37.5	38	48	65	62	10	6.6	50	M6	7	2x3.5	3.5	26,000	65,000
20x20	20	20	35.5	36	44	58	58	10	6.6	47	M6	7	2x1.5	3.5	10,000	22,000
25x10	25	10	42.5	43	50	55	65	10	6.6	55	M6	7	2x2.5	3.5	21,000	54,000
25x25	25	25	43.5	44	52	67	70	12	6.6	56	M6	10	2x1.5	3.5	10,000	24,000
25x25	25	25	43.5	44	52	67	70	12	6.6	56	M6	10	4x1.5	3.5	20,000	48,000
32x10	32	10	51.5	52	64	62	82	12	9	67	M6	10	2x2.5	3.5	20,000	55,000
32x15	32	15	55.5	56	65	74	86	14	9	71	M6	12	2x2.5	3.5	19,900	55,100
32x32	32	32	55.5	56	65	86	86	14	9	71	M6	12	4x1.5	3.5	25,700	76,200
40x5	40	5	64.5	65	70	75	93	14	9	78	M8x1	12	2x3.5	3.5	29,400	97,000
40x20	40	20	64.7	65	70	88	93	14	9	78	M8x1	12	2x2.5	4	25,500	77,400
40x40	40	40	65.5	66	75	98	95	14	9	80	M8x1	12	4x1.5	4	29,900	94,500

Quick
Links

Square
Flange

Tube Ball
Returns

End-Cap Ball
Returns

Single-Thread
Ball Returns

Round
Flange

End-Cap Ball
Returns

Mounting
Thread

Tube Ball
Returns

End-Cap Ball
Returns

Single-Thread
Ball Returns

Cylindrical
Nuts

Tube Ball
Returns

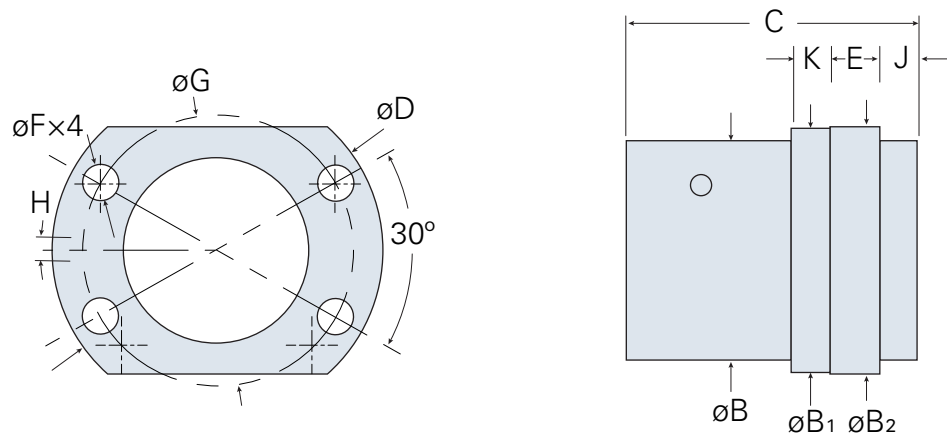
End-Cap Ball
Returns

Single-Thread
Ball Returns

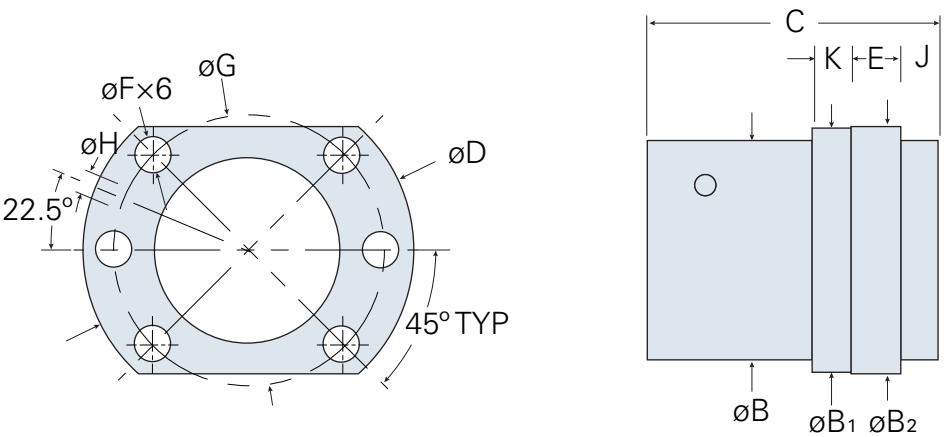
FBE Ball Nuts

with Square Mounting Flange and End Cap Ball Returns

ø8 - 25mm



8 mm



16 - 25 mm

Size	Nominal Diameter mm	Lead mm	B _{g6} mm	B ₁ mm	B ₂ mm	C mm	D mm	E mm	F mm	G mm	øH mm	K mm	Circuits	Ball Diameter mm	Dynamic Load N	Static Load N	Static N
8×12	8	12	17.8	18	20	28	30	4	3.4	25	2	6	4	2×1.5	1.5	1,400	2,300
16×10	16	10	27.8	28	40	42	48	10	5.5	38	4	10	10	2×2.9	3	12,500	26,000
16×16	16	16	27.8	28	40	42	48	10	5.5	38	4	10	10	2×1.9	3	7,800	15,500
16×50	16	50	27.8	28	40	55	48	10	5.5	38	4	10	10	3×0.9	3	4,800	11,000
20×20	20	20	35.5	36	44	50	58	12	6.6	47	M6	10	10	4×1.9	3	17,900	44,600
25×25	25	25	39.8	40	48	60	62	10	6.6	51	4	10	10	4×1.9	3.5	23,300	68,000
25×30	25	30	39.8	40	48	70	62	10	6.6	51	4	10	10	4×1.9	3.5	23,000	67,800

Quick
Links

Square
Flange

Tube Ball
Returns

End-Cap Ball
Returns

Single-Thread
Ball Returns

Round
Flange

End-Cap Ball
Returns

Mounting
Thread

Tube Ball
Returns

End-Cap Ball
Returns

Single-Thread
Ball Returns

Cylindrical
Nuts

Tube Ball
Returns

End-Cap Ball
Returns

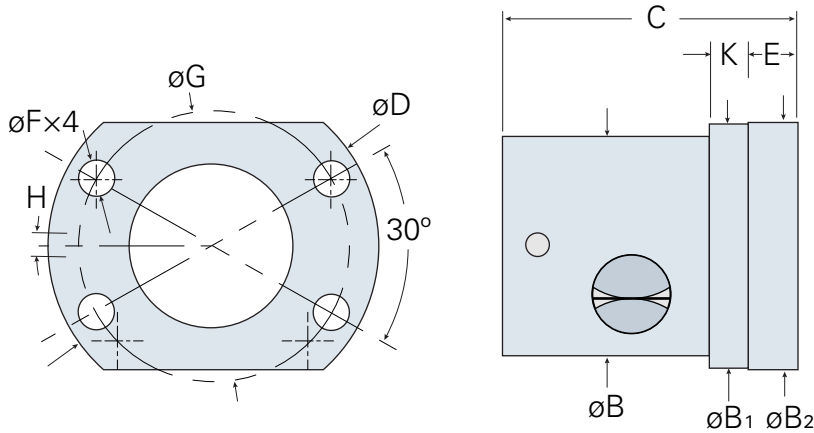
Single-Thread
Ball Returns

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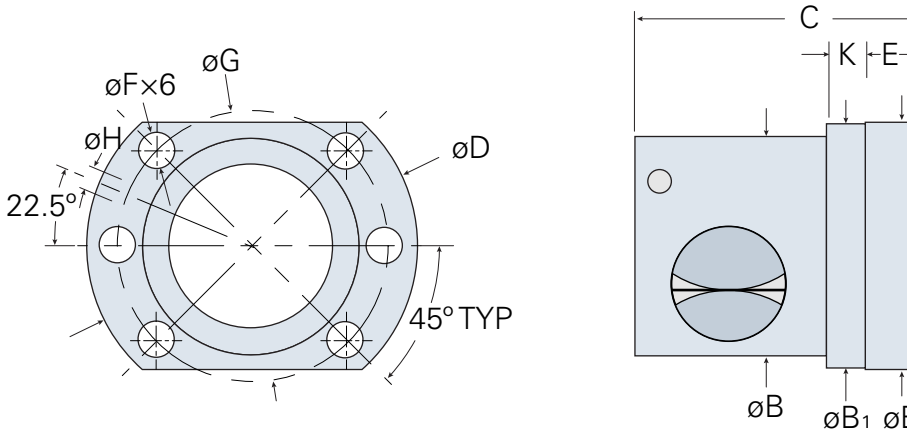
FBI Ball Nuts

with Square Mounting Flange and Single-Thread Ball Returns

ø4 - 32mm



4 - 12 mm



16 - 32 mm

Size	Nominal Diameter mm	Lead mm	B _{g6} mm	B ₁ mm	B ₂ mm	C mm	D mm	E mm	F mm	G mm	øH mm	K mm	Circuits	Ball Diameter mm	Dynamic Load N	Static Load N
6×1	6	1	11.8	12	16	18	24	4	3.4	18	2	4	3×1	0.8	600	1,000
8×1	8	1	13.5	14	18	18	27	4	3.4	21	2	4	3×1	0.8	700	1,200
8×2	8	2	15.5	16	19	30	28	6	3.4	22	4	4	3×1	1.59	1,400	2,000
10×4	10	4	17.8	18	23	38	36	6	4.5	28	-	6	4×1	2.5	4,100	6,700
10×4	10	4	17.8	18	23	38	36	6	4.5	28	2	6	4×1	2.5	4,100	6,700
12×5	12	5	23.5	24	26	40	40	8	4.5	32	4	6	3×1	2.78	5,000	8,600
16×5	16	5	27.8	28	40	45	48	10	5.5	38	M6	6	3×1	3.5	9,700	22,000
20×5	20	5	35.5	36	44	50	58	10	6.6	47	M6	10	3×1	3.5	10,800	25,000
25×5	25	5	39.5	40	48	50	62	10	6.6	51	M6	10	3×1	3.5	11,700	30,000
25×5	25	5	39.5	40	48	55	62	10	6.6	51	M6	10	4×1	3.5	14,000	35,000
32×5	32	5	49.5	50	62	57	80	12	9	65	M6	10	4×1	3.5	19,000	54,000

Quick
Links

Square
Flange

Tube Ball
Returns

End-Cap Ball
Returns

Single-Thread
Ball Returns

Round
Flange

End-Cap Ball
Returns

Mounting
Thread

Tube Ball
Returns

End-Cap Ball
Returns

Single-Thread
Ball Returns

Cylindrical
Nuts

Tube Ball
Returns

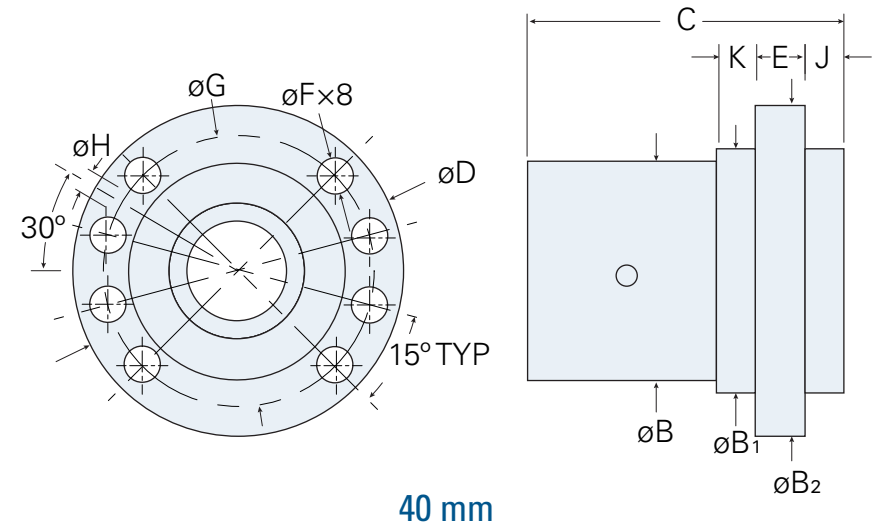
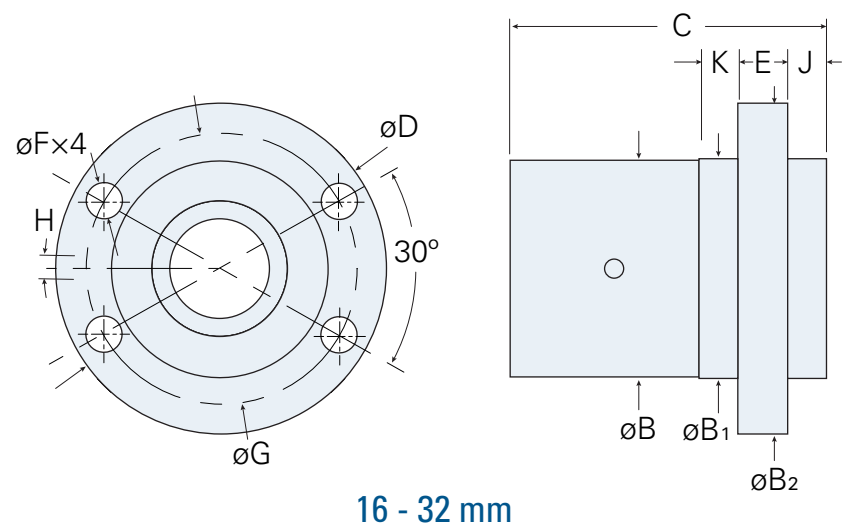
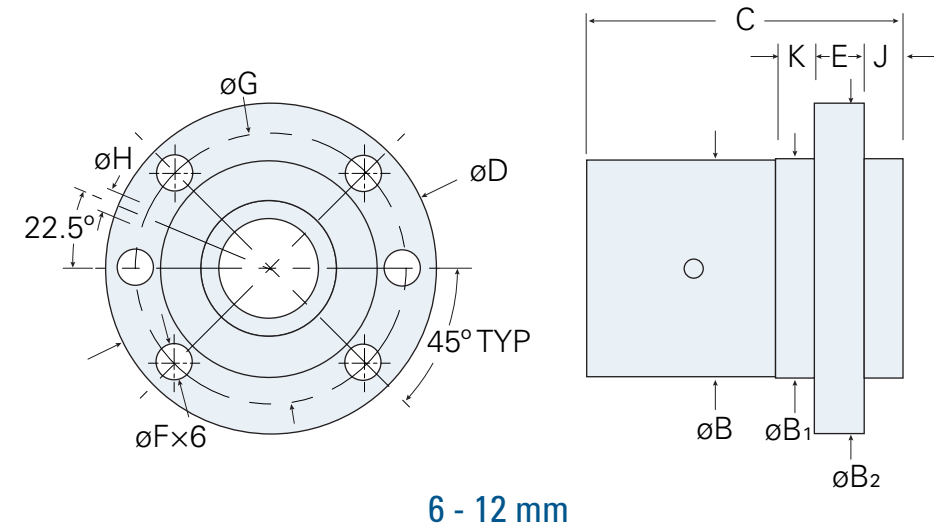
End-Cap Ball
Returns

Single-Thread
Ball Returns

FAF Ball Nuts

with Round Mounting Flange and End Cap Ball Returns

ø6 - 40mm



Size	Nominal Diameter mm	Lead mm	B _{g6} mm	B ₁ mm	B ₂ mm	C mm	D mm	E mm	F mm	G mm	øH mm	K mm	Circuits	Ball Diameter mm	Dynamic Load N	Static Load N
6x2	6	2	17.5	18	19	34	4	3.4	26	2	4	4	1x3.7	1.59	1,900	2,800
6x6	6	6	17.5	18	19	34	4	3	26	2	4	4	2x1.6	1.5	1,700	2,600
8x3	8	3	19.5	20	23	36	4	3	28	2	5	4	1x3.7	1.5	1,900	3,300
8x8	8	8	19.5	20	23	36	4	3	28	2	5	4	2x1.7	1.5	2,000	3,700
10x10	10	10	23.5	24	27	40	7	5	32	4	4	5	2x1.7	2	3,200	5,900
10x3	10	3	23.5	24	27	40	7	5	32	3	4	5	1x3.7	2	3,500	6,300
12x10	12	10	25.5	26	38	42	8	5	34	4	6	6	2x2.4	2.5	6,400	12,600
12x5	12	5	25.5	26	30	42	8	5	34	4	6	6	1x3.7	2.78	5,900	10,600
12x12	12	12	25.5	26	30	42	8	5	34	4	6	6	2x1.6	2.5	4,600	8,500
15x20	15	20	31.5	32	46	52	10	6	42	4	10	10	2x1.7	3	7,100	14,700
16x16	16	16	31.5	32	41	52	10	6	42	4	10	10	2x1.6	3	6,700	13,700
25x10	25	10	41.5	42	52	64	10	7	53	4	10	10	2x2.7	3	14,100	39,800
40x40	40	40	61.5	62	90	93	12	9	78	4	12	12	4x1.7	4	30,600	108,100

Quick
Links

Square
Flange

Tube Ball
Returns

End-Cap Ball
Returns

Single-Thread
Ball Returns

Round
Flange

End-Cap Ball
Returns

Mounting
Thread

Tube Ball
Returns

End-Cap Ball
Returns

Single-Thread
Ball Returns

Cylindrical
Nuts

Tube Ball
Returns

End-Cap Ball
Returns

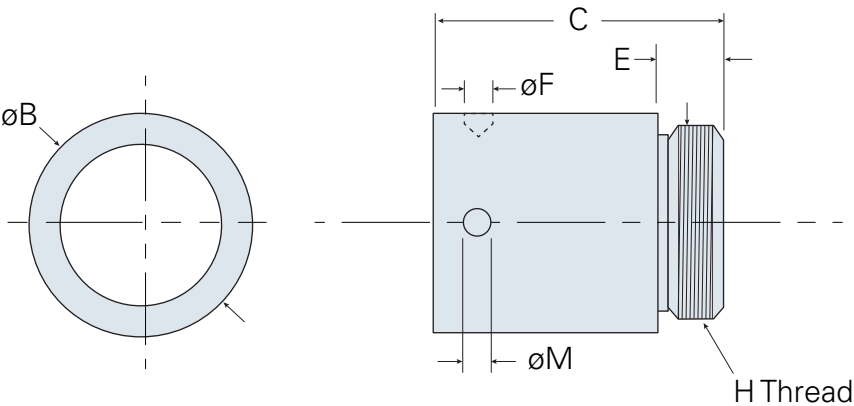
Single-Thread
Ball Returns

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FGR Ball Nuts

with Mounting Thread, Tube Ball Returns, and Technopolymer Wipers

ø6 - 25mm



Size	Nominal Diameter mm	Lead mm	$B_{-0.1}^0$ mm	C mm	E mm	F mm	H thread	ϕM mm	Circuits	Ball Diameter mm	Dynamic N	Static N
6×2	5.7	2	19	19	8	2.5	M16×1	ø2	1×3.7	0.05	1,900	2,800
6×6	5.9	6	19	19	8	2.5	M16×1	ø2	2×1.6	0.05	1,700	2,600
8×3	8	3	23	23	10	2.5	M20×1	ø2	1×3.7	0.05	1,900	3,300
8×8	8	8	23	23	10	2.5	M20×1	ø2	2×1.7	0.05	2,000	3,700
10×3	9.9	3	27	27	10	3	M24×1.5	ø2	1×3.7	0.06	3,500	6,300
10×10	9.9	10	27	27	10	3	M24×1.5	ø2	2×1.7	0.06	3,200	5,900
12×5	12	5	32	30	12	3.5	M28×1.5	ø4	1×3.7	0.06	5,900	10,600
12×10	11.9	10	32	38	12	3.5	M28×1.5	ø4	2×2.4	0.06	6,400	12,600
12×12	12	12	32	30	12	3.5	M28×1.5	ø4	2×1.6	0.06	4,600	8,500
15×20	14.9	20	36	46	19	4	M33×1.5	ø4	2×1.7	0.07	7,100	14,700
16×16	15.5	16	36	41	19	4	M33×1.5	ø4	2×1.6	0.07	6,700	13,700
25×10	24.9	10	49	52	19	4	M45×1.5	ø4	2×2.7	0.07	14,100	39,800

Quick
Links

Square
Flange

Tube Ball
Returns

End-Cap Ball
Returns

Single-Thread
Ball Returns

Round
Flange

End-Cap Ball
Returns

Mounting
Thread

Tube Ball
Returns

End-Cap Ball
Returns

Single-Thread
Ball Returns

Cylindrical
Nuts

Tube Ball
Returns

End-Cap Ball
Returns

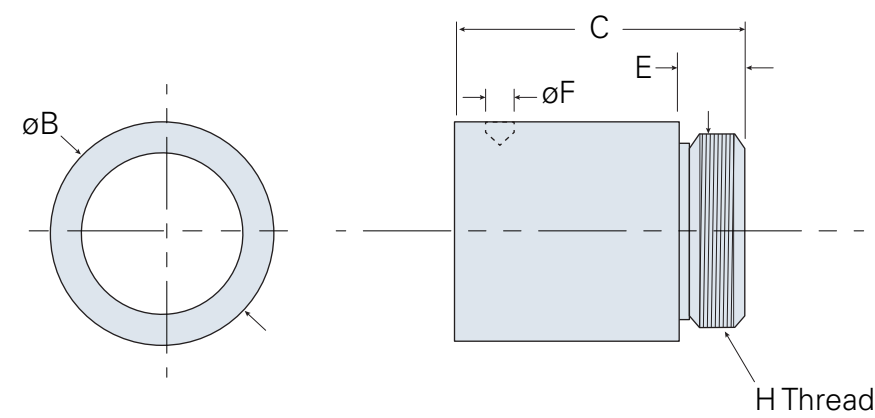
Single-Thread
Ball Returns

The specifications and data in this publication are believed to be accurate and reliable. However, it is the responsibility of the product user to determine the suitability of Helix products for a specific application. While defective products will be replaced without charge if promptly returned, no liability is assumed beyond such replacement.

FGF Ball Nuts

with Mounting Thread and End Cap Ball Returns

ø8 - 12.7mm



Size	Nominal Diameter mm	Lead mm	$B_{-0.1}^0$ mm	C mm	E mm	F mm	H thread	Circuits	Ball mm	Dynamic N	Static N
6×2	6	2	16	22	8	2.5	M12×1	1×3.5	1.59	1,700	2,300
8×2	8	2	18	24	8	2.5	M14×1	1×3.5	1.59	2,000	3,200
8×5	8	5	18	25	8	2.5	M14×1	2×1.5	1.5	1,960	3,470
8×8	8	8	18	25	8	2.5	M14×1	2×1.5	1.5	1,500	2,500
10×10	10	10	23	35	9	3	M18×1	2×1.5	2	2,300	4,000
10×2	10	2	19.5	22	7	2.5	M17×1	1×3.5	1.59	2,800	5,000
10×3	10	3	21	29	9	3	M18×1	1×3.5	2	2,500	4,500
12×10	12	10	26	37	8	3	M20×1	2×1.5	2.5	5,500	11,000
12×4	12	4	26	32	8	2.5	M20×1	1×3.5	2.5	6,600	12,000
12×5	12	5	26	37	8	3	M20×1	1×3.5	2.78	4,400	7,700
12.7×12.7	12.7	12.7	29.5	50	12	3	M25×1.5	2×1.5	3.5	8,000	15,500

Quick Links

- Square Flange
- Tube Ball Returns
- End-Cap Ball Returns
- Single-Thread Ball Returns

- Round Flange
- End-Cap Ball Returns

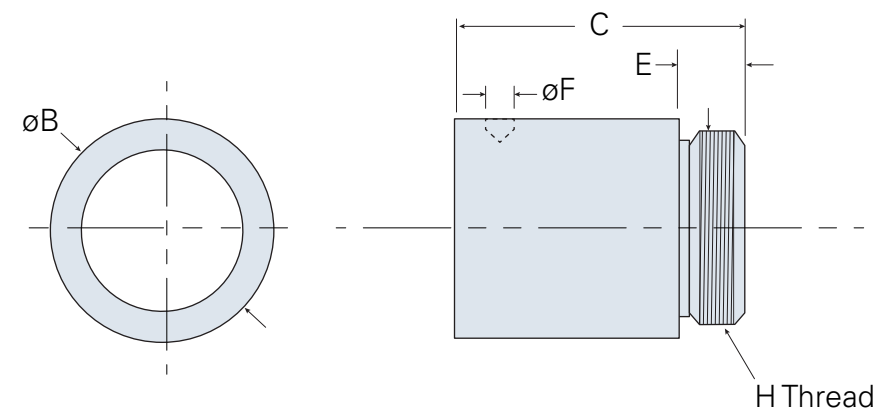
- Mounting Thread
- Tube Ball Returns
- End-Cap Ball Returns
- Single-Thread Ball Returns

- Cylindrical Nuts
- Tube Ball Returns
- End-Cap Ball Returns
- Single-Thread Ball Returns

FGF Ball Nuts

with Mounting Thread and End Cap Ball Returns

ø14 - 25mm



Size	Nominal Diameter mm	Lead mm	B ⁰ _{-0.1} mm	C mm	E mm	F mm	H thread	Circuits	Ball mm	Dynamic N	Static N
14×2	14	2	26	32	10	3	M22×1.5	2×2.5	1.59	4,500	10,000
14×4	14	4	29	32	8	3	M22×1.5	1×3.5	2.78	8,100	16,000
16×10	16	10	32	47	12	4	M26×1.5	1×2.5	3.5	2,500	5,500
16×10	16	10	32	47	12	4	M26×1.5	2×2.5	3.5	12,000	25,000
16×16	16	16	32	47	12	4	M26×1.5	3×1.5	3	8,500	12,500
16×2	16	2	30	28	12	3.5	M26×1.5	1×2.5	1.59	17,000	25,000
16×5	16	5	32	42	12	4	M26×1.5	1×3.5	3.5	9,150	18,750
20×10	20	10	38	58	19	4	M35×1.5	2×2.5	3.5	4,600	15,000
20×2	20	2	36	30	12	4	M30×1.5	2×2.5	1.59	13,700	29,900
20×20	20	20	38	58	19	4	M35×1.5	2×1.5	3.5	21,000	51,000
20×20	20	20	38	58	19	4	M35×1.5	4×1.5	3	10,000	22,000
20×5	20	5	36	42	12	4	M30×1.5	1×3.5	3.5	14,600	35,000
25×10	25	10	43	58	19	4	M40×1.5	2×2.5	3.5	17,500	42,400
25×5	25	5	44	58	19	4	M40×1.5	2×2.5	3.5	21,000	54,000

Quick Links

Square Flange

Tube Ball Returns

End-Cap Ball Returns

Single-Thread Ball Returns

Round Flange

End-Cap Ball Returns

Mounting Thread

Tube Ball Returns

End-Cap Ball Returns

Single-Thread Ball Returns

Cylindrical Nuts

Tube Ball Returns

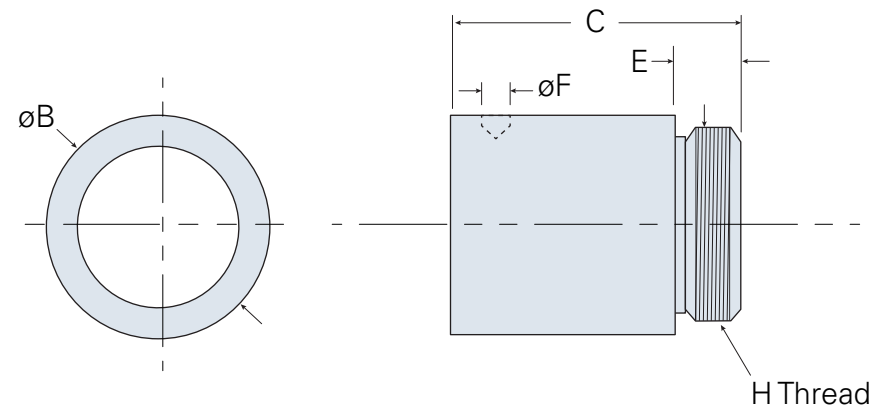
End-Cap Ball Returns

Single-Thread Ball Returns

FGI Ball Nuts

with Mounting Thread and Single-Thread Ball Returns (no wipers)

ø5 - 16mm



Size	Nominal Diameter mm	Lead mm	B _{-0.1} ⁰ mm	C mm	E mm	F mm	H thread	Circuits	Ball Diameter mm	Dynamic N	Static N
5×2	5	2	10	18	6	2.5	M8×0.75	3×1	0.8	500	800
5×3	5	3	10	19	6	2.5	M8×0.75	2×1	0.8	340	490
5×3	5	3	10	23	6	2.5	M8×0.75	3×1	0.8	480	770
8×1	8	1	16	22	8	2.5	M14×1	3×1	0.8	700	1,200
8×1.5	8	1.5	16	22	8	2.5	M14×1	3×1	1.2	800	1,300
8×2	8	2	16	28	8	2.5	M14×1	3×1	1.59	1,400	2,000
8×2.5	8	2.5	16	24	8	2.5	M14×1	3×1	1.59	1,400	2,100
8×2.5	8	2.5	17.5	24	8	2.5	M15×1	1×3.5	1.59	2,000	3,200
8×3	8	3	16	25	8	2.5	M14×1	3×1	1.5	1,400	2,100
10×2	10	2	18	22	8	2.5	M16×1	2×1	1.59	1,250	2,100
10×2	10	2	18	28	8	2.5	M16×1	3×1	1.59	1,750	3,200
10×3	10	3	20	29	8	2.5	M18×1	3×1	2	2,400	4,200
10×4	10	4	20	40	8	2.5	M18×1	4×1	2.5	4,100	6,700
12×2	12	2	20	23	8	2.5	M18×1	2×1	1.59	1,380	2,500
12×2	12	2	20	28	8	2.5	M18×1	3×1	1.59	2,000	4,000
12×4	12	4	24	39	10	2.5	M20×1	3×1	2.5	4,000	6,800
12×5	12	5	23	42	10	3	M20×1	3×1	2.78	5,000	8,600
14×4	14	4	25	34	10	2.5	M22×1.5	3×1	2.78	5,000	8,800
16×2	16	2	25	34	10	2.5	M22×1.5	3×1	1.59	2,400	5,200
16×5	16	5	30.2	45	12	3.5	M26×1.5	3×1	3.5	9,700	22,000

Quick Links

Square Flange

Tube Ball Returns

End-Cap Ball Returns

Single-Thread Ball Returns

Round Flange

End-Cap Ball Returns

Mounting Thread

Tube Ball Returns

End-Cap Ball Returns

Single-Thread Ball Returns

Cylindrical Nuts

Tube Ball Returns

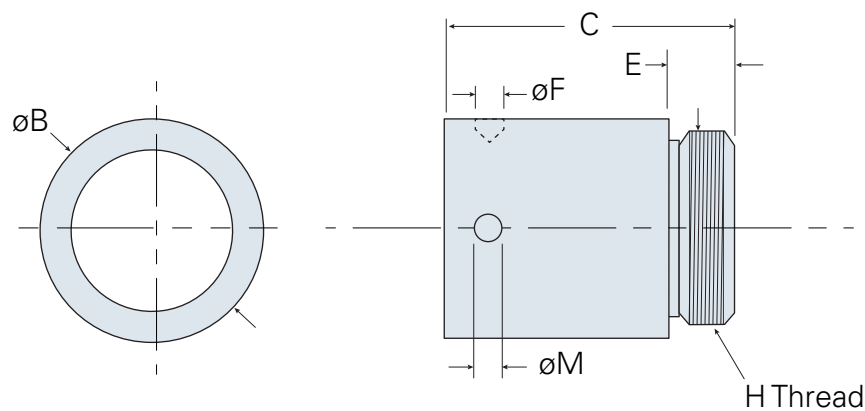
End-Cap Ball Returns

Single-Thread Ball Returns

FGI Ball Nuts

with Mounting Thread, Single-Thread Ball Returns, and Technopolymer Wipers

ø10 - 40mm



Size	Nominal Diameter mm	Lead mm	$B_{-0.1}^0$ mm	C mm	E mm	F mm	H thread	$\varnothing M$ mm	Circuits	Ball Diameter mm	Dynamic N	Static N
10×3	10	3	20	29	8	2.5	M18×1	2	3×1	2	2,400	4,200
10×4	10	4	20	40	8	2.5	M18×1	2	4×1	2.5	4,100	6,700
12×4	12	4	24	39	10	2.5	M20×1	4	3×1	2.5	4,000	6,800
12×5	12	5	23	42	10	3	M20×1	4	3×1	2.78	5,000	8,600
14×4	14	4	25	38	10	2.5	M22×1.5	4	3×1	2.78	5,000	8,800
16×5	16	5	30.2	50	12	3.5	M26×1.5	M5	3×1	3.5	9,700	22,000
20×5	20	5	33	47	12	4	M30×1.5	M5	3×1	3.5	10,800	25,000
25×5	25	5	40	57	12	4	M38×1.5	M5	3×1	3.5	11,700	30,000
32×5	32	5	52	55	15	4	M48×1.5	M5	4×1	3.5	19,000	54,000

Quick Links

Square Flange

Tube Ball Returns

End-Cap Ball Returns

Single-Thread Ball Returns

Round Flange

End-Cap Ball Returns

Mounting Thread

Tube Ball Returns

End-Cap Ball Returns

Single-Thread Ball Returns

Cylindrical Nuts

Tube Ball Returns

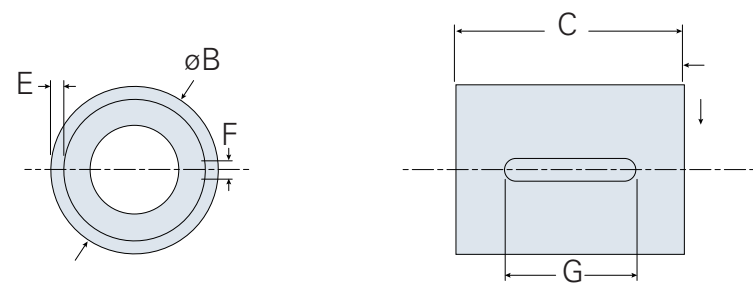
End-Cap Ball Returns

Single-Thread Ball Returns

ZYR Ball Nuts

Cylindrical Ball Nut with Tube Ball Returns (no wipers)

ø6 - 40mm



Size	Nominal mm	Lead mm	B _{g6} mm	C mm	E mm	F _{pg} mm	G mm	Circuits	Ball Diameter mm	Backlash mm	Dynamic load N	Static load N
8×2	8	2	18	14	1.2	2	8	1×3.5	1.59	0.06	2,000	3,200
8×2.5	8	2.5	18	16	2	3	10	1×3.5	1.59	0.06	2,000	3,200
10×3	9.9	3	22	24	2	3	10	1×3.5	2	0.06	2,800	5,000
10×10	9.8	10	23	26	2	3	10	2×1.5	2	0.06	2,500	4,500
12×4	12	4	26	24	1.8	3	10	1×3.5	2.5	0.07	5,500	11,000
14×4	14	4	29	24	2.5	4	16	1×3.5	2.78	0.07	8,100	16,000
16×10	15.7	10	32	45	2.5	4	16	2×2.5	3.5	0.07	17,000	25,000

Quick Links

Square Flange

Tube Ball Returns

End-Cap Ball Returns

Single-Thread Ball Returns

Round Flange

End-Cap Ball Returns

Mounting Thread

Tube Ball Returns

End-Cap Ball Returns

Single-Thread Ball Returns

Cylindrical Nuts

Tube Ball Returns

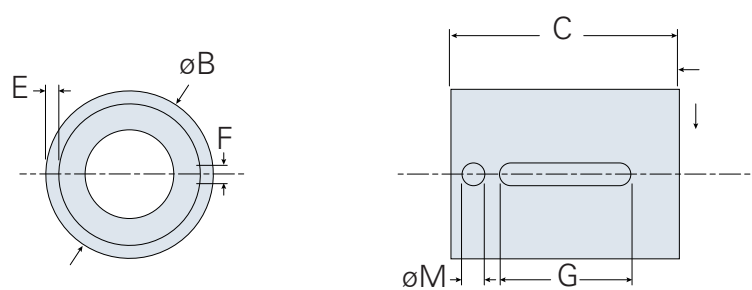
End-Cap Ball Returns

Single-Thread Ball Returns

ZYR Ball Nuts

Cylindrical Ball Nut with Tube Ball Returns and Technopolymer Wipers

ø6 - 40mm



Size	Nominal mm	Lead mm	B _{g6} mm	C mm	E mm	F _{pg} mm	G mm	M mm	Circuits	Ball Diameter mm	Backlash mm	Dynamic load N	Static load N
10×3	9.9	3	22	24	2	3	10	ø3.5	1×3.5	2	0.06	2,800	5,000
12×4	12	4	26	32	1.8	3	10	ø4.0	1×3.5	2.5	0.07	5,500	11,000
14×4	14	4	29	32	2.5	4	16	ø4.0	1×3.5	2.78	0.07	8,100	16,000
16×10	15.7	10	32	45	2.5	4	16	ø4.0	2×2.5	3.5	0.07	17,000	25,000

Quick Links

- Square Flange
- Tube Ball Returns
- End-Cap Ball Returns
- Single-Thread Ball Returns

- Round Flange
- End-Cap Ball Returns

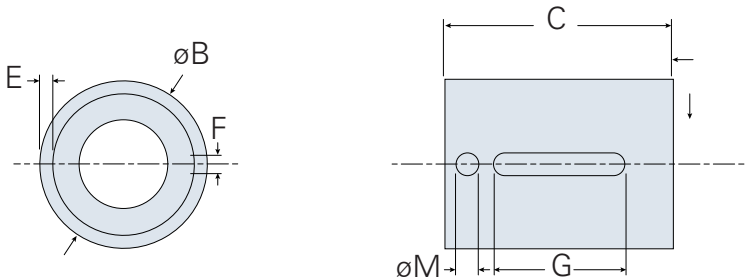
- Mounting Thread
- Tube Ball Returns
- End-Cap Ball Returns
- Single-Thread Ball Returns

- Cylindrical Nuts
- Tube Ball Returns
- End-Cap Ball Returns
- Single-Thread Ball Returns

ZYE Ball Nuts

Cylindrical Ball Nut with End Cap Ball Returns and Technopolymer Wipers

ø8 - 25mm



Size	Nominal Diameter mm	Lead mm	B _{g6} mm	C mm	E mm	F _{Pg} mm	G mm	M mm	Circuits	Ball Diameter mm	Backlash mm	Dynamic Load N	Static Load N
8×12	8	12	18	28	1.2	2	8	ø2	2×1.5	1.5	0.05	1,400	2,300
12.7×25.4	12.5	25.4	26	32	1.8	3	10	ø4	3×0.9	2	0.05	2,300	4,500
16×10	16	10	28	42	2.5	4	16	ø4	2×2.9	3	0.07	12,500	26,000
16×16	15.5	16	28	42	2.5	4	16	ø3	2×1.9	3	0.07	7,800	15,500
16×50	16	50	28	55	2.5	4	16	ø4	3×0.9	3	0.06	4,800	11,000
20×20	20	20	36	50	2.5	4	20	ø4	4×1.9	3	0.06	17,900	44,600
25×25	24.5	25	40	60	2.5	4	20	ø4	4×1.9	3.5	0.06	23,300	68,000

Quick
Links

Square
Flange

Tube Ball Returns

End-Cap Ball Returns

Single-Thread Ball Returns

Round
Flange

End-Cap Ball Returns

Mounting
Thread

Tube Ball Returns

End-Cap Ball Returns

Single-Thread Ball Returns

Cylindrical
Nuts

Tube Ball Returns

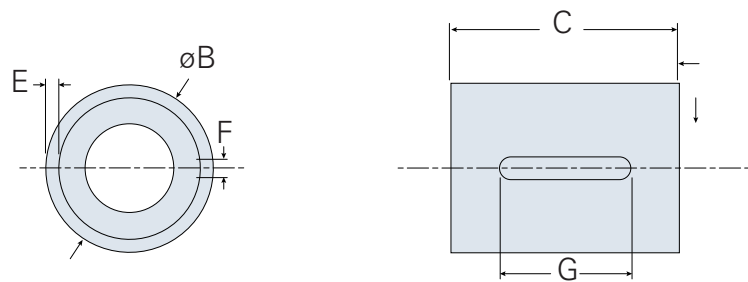
End-Cap Ball Returns

Single-Thread Ball Returns

ZYI Ball Nuts

Cylindrical Ball Nut with Single-Thread Ball Returns (no wipers)

ø4 - 32mm



Size	Nominal mm	Lead mm	B _{g6} mm	C mm	E mm	F _{pg} mm	G mm	Circuits	Ball Diameter mm	Backlash mm	Dynamic load N	Static load N
4×1	4	1	8	10	1	ø2		3×1	0.8	0.03	430	580
5×2	5	2	10	14	1	2	8	3×1	0.8	0.03	500	800
6×1	6	1	12	14	1.2	2	8	3×1	0.8	0.03	600	1,000
8×1	8	1	14	14	1.2	2	8	3×1	0.8	0.03	700	1,200
8×1.5	8	1.5	14	14	1.2	2	8	3×1	1.2	0.04	800	1,300
8×2	8	2	16	20	1.2	2	8	3×1	1.59	0.05	1,400	2,000
8×2.5	8	2.5	16	22	2	3	10	3×1	1.59	0.05	1,400	2,100
8×3	8	3	14	12	1.2	2	8	2×1	1.5	0.05	950	1,500
8×5	8	5	18	19	2	3	10	2×2.5	1.5	0.06	1,960	3,470
10×2	9.7	2	18	14	1.2	3	10	2×1	1.59	0.06	1,250	2,100
10×4	10	4	18	35	1.2	3	10	4×1	2.5	0.07	4,100	6,700
12×2	12	2	20	15	1.2	3	10	2×1	1.59	0.06	1,380	2,500
14×4	14	4	25	24	2.5	4	10	3×1	2.78	0.07	5,000	8,800

Quick Links

- Square Flange
- Tube Ball Returns
- End-Cap Ball Returns
- Single-Thread Ball Returns

- Round Flange
- End-Cap Ball Returns

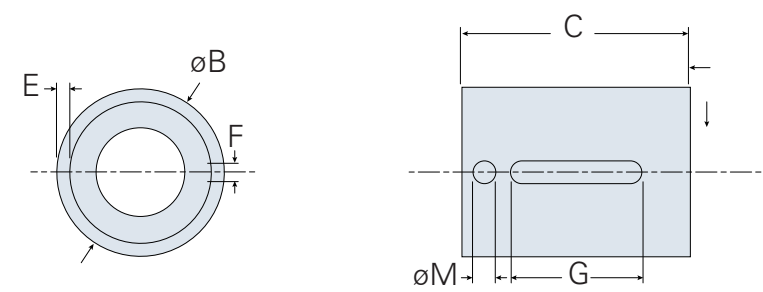
- Mounting Thread
- Tube Ball Returns
- End-Cap Ball Returns
- Single-Thread Ball Returns

- Cylindrical Nuts
- Tube Ball Returns
- End-Cap Ball Returns
- Single-Thread Ball Returns

ZYI Ball Nuts

Cylindrical Ball Nut with Single-Thread Ball Returns and Technopolymer Wipers

ø8 - 32mm



Size	Nominal mm	Lead mm	B _{g6} mm	C mm	E mm	F _{pg} mm	G mm	M mm	Circuits	Ball Diameter mm	Backlash mm	Dynamic load N	Static load N
8×2.5	8	2.5	16	22	2	3	10	ø2	3×1	1.59	0.05	1,400	2,100
10×4	10	4	18	35	1.2	3	10	ø2	4×1	2.5	0.07	4,100	6,700
14×4	14	4	25	32	2.5	4	10	ø4	3×1	2.78	0.07	5,000	8,800
16×5	15.7	5	30	43	2.5	4	16	M5	3×1	3.5	0.07	9,700	22,000
20×5	19.2	5	33	45	2.5	4	20	M5	3×1	3.5	0.07	10,800	25,000
25×5	24.6	5	38	50	2.5	4	20	M5	3×1	3.5	0.07	11,700	30,000
32×5	31.6	5	48	48	3	5	20	M5	4×1	3.5	0.07	19,000	54,000

Quick Links

- Square Flange
- Tube Ball Returns
- End-Cap Ball Returns
- Single-Thread Ball Returns

- Round Flange
- End-Cap Ball Returns

- Mounting Thread
- Tube Ball Returns
- End-Cap Ball Returns
- Single-Thread Ball Returns

- Cylindrical Nuts
- Tube Ball Returns
- End-Cap Ball Returns
- Single-Thread Ball Returns