

Welcome to where precision is.



Large Ball Screws Diameter 16 - 125 mm

BALL SCREWS 16 – 125 MM FOR INDUSTRIAL APPLICATIONS

New technology in the precision range.



Steinmeyer offers in the precision range the optimized technology Xi-Plus, with significant advantages in smooth, quiet operation.

Through the use of innovative production technologies, the roughness of the raceway surface of the spindles can be reduced and therefore performance is optimized. By eliminating microscopic irregularities on the raceway surface of the spindle thread, vibrations and restless running characteristics are virtually eliminated.

This results in a lower noise level and smoother running when installed in the machine. Through studies on in-house test beds, a reduction in torque variation of up to 40% can be demonstrated, which significantly improves the running characteristics. By FFT analysis (Fast Fourier Transformation) of this signal, improvements in the noise of ball screws can also be shown.

The improved properties of the Xi-Plus technology enable greater energy efficiency and a longer service life of the ball screw.

Selection of suitable nut

In this section you will find nuts with connecting dimensions according to DIN 69051 or ISO 3408. All sizes can be selected with various flange shapes (round, single flat, and double flat) and different load capacities.



Most models are available as a single nut with 4-point contact, as a double nut, or as a double nut with ETA+ execution. The specifications and dimensions of the ETA+ version can be found in the descriptions of the double nuts.

Nuts of ETA+ ball screws are often shorter than conventional double nuts, have lower friction, and have improved durability with excellent rigidity. The technical data are presented in the following tables.

Due to the great success of ETA+ some sizes are no longer produced in conventional designs.

Please contact us with your applications to find the possibilities with  and .
We will gladly provide a quotation.

Ball screws are available only according to customer-provided drawings. To receive a formal quotation, please send us a drawing that defines the spindle shaft exactly. For budgetary pricing and lead times, a sketch is sufficient.

For more information please visit: www.steinmeyer.com

Positioning ball screws 16 - 125 mm

NOMINAL DIAMETER 16 – 20 mm

Single nut, 4-point contact

Execution grade P0 – P5



■ Series 1416:

DIN standard flanged nut,
ball oversize preload



■ Series 2426:

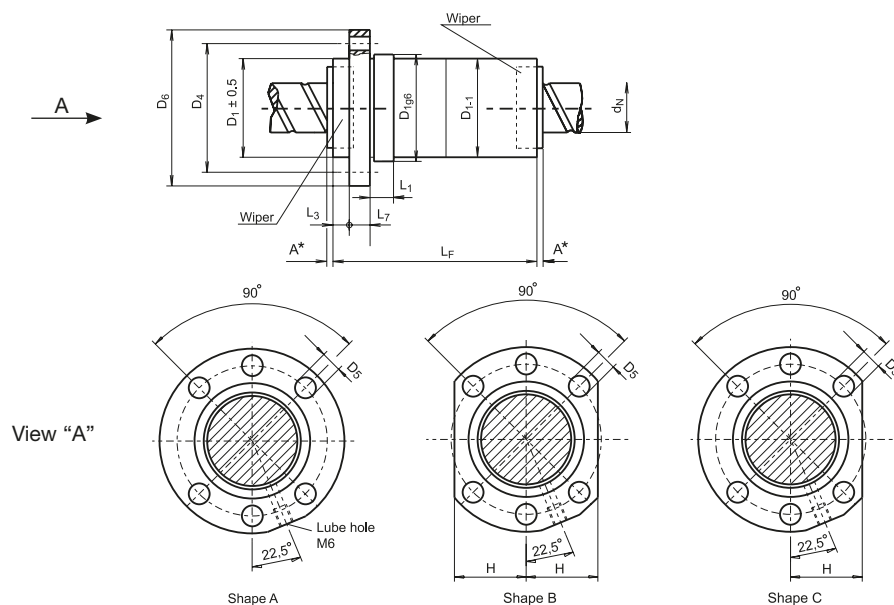
End cap nut with flange, dual start,
ball oversize preload



Detailed information page 89.

	Technical data							
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i	Ball diameter d _w [mm]	Dyn. load rating C _a [kN]	Stat. load rating C _{0a} [kN]	Stiffness* R _{nu, ar} [N/μm]
1416	2.16.1,5.3	2	16	3	1.5	2.9	4.9	160
	2.16.1,5.4	2	16	4	1.5	3.8	6.5	210
	4.16.3.3	4	16	3	3.0	8.9	11.4	170
	4.16.3.4	4	16	4	3.0	11.4	15.2	220
	5.16.3,5.3	5	16	3	3.5	10.1	12.0	150
	5.16.3,5.4	5	16	4	3.5	12.9	16.0	200
2426	10.16.3,5.6	10	16	3 + 3	3.5	19.6	27.4	270
	10.16.3,5.8	10	16	4 + 4	3.5	25.6	37.7	360
	10.16.3,5.10	10	16	5 + 5	3.5	31.4	47.8	450
1416	2.20.1,5.3	2	20	3	1.5	3.2	6.2	190
	2.20.1,5.4	2	20	4	1.5	4.1	8.2	250
	2.20.1,5.5	2	20	5	1.5	5.0	10.3	310
	4.20.3.3	4	20	3	3.0	10.1	14.9	220
	4.20.3.4	4	20	4	3.0	13.0	19.9	290
	5.20.3,5.3	5	20	3	3.5	12.1	16.7	210
	5.20.3,5.4	5	20	4	3.5	15.5	22.3	270
2426	10.20.3,5.6	10	20	3 + 3	3.5	22.8	36.5	390
	10.20.3,5.10	10	20	5 + 5	3.5	36.4	63.0	630
	20.20.3,5.4	20	20	2 + 2	3.5	14.7	22.4	140
	20.20.3,5.6	20	20	3 + 3	3.5	21.7	35.2	220

* Actual stiffness at preload equal to 0.08 x C_a



Dimensions

Flanged nut with wipers both ends

	L_F [mm]	D_1 g6 [mm]	L_1 [mm]	D_4 [mm]	D_5 [mm]	D_6 [mm]	L_7 [mm]	L_3 [mm]	H [mm]	A [mm]	LA^* [mm]
1416	39	28	10	38	5.5	48	10	6	20	0	9
	43	28	10	38	5.5	48	10	6	20	0	9
	49	28	10	38	5.5	48	10	6	20	0	9
	53	28	10	38	5.5	48	10	6	20	0	9
	54	28	10	38	5.5	48	10	6	20	0	9
	59	28	10	38	5.5	48	10	6	20	0	9
2426	44	32	16	42	5.5	52	10	12	20	0	-
	54	32	16	42	5.5	52	10	12	20	0	-
	64	32	16	42	5.5	52	10	12	20	0	-
1416	48	36	10	47	6.6	58	10	6	22	0	9
	52	36	10	47	6.6	58	10	6	22	0	9
	56	36	10	47	6.6	58	10	6	22	0	9
	49	36	10	47	6.6	58	10	6	22	0	9
	53	36	10	47	6.6	58	10	6	22	0	9
	55	36	10	47	6.6	58	10	6	22	0	9
	60	36	10	47	6.6	58	10	6	22	0	9
2426	49	36	16	47	6.6	58	10	7	22	0	-
	69	36	16	47	6.6	58	10	7	22	0	-
	57	36	16	47	6.6	58	10	7	22	0	-
	77	36	16	47	6.6	58	10	7	22	0	-

LA *: Additional nut length at each end when using combination wipers

Positioning ball screws 16 - 125 mm

NOMINAL DIAMETER 25 mm

Single nut, 4-point contact

Execution grade P0 – P5



■ Series 1416:

DIN standard flanged nut,
ball oversize preload



■ Series 2426:

End cap nut with flange, dual start,
ball oversize preload

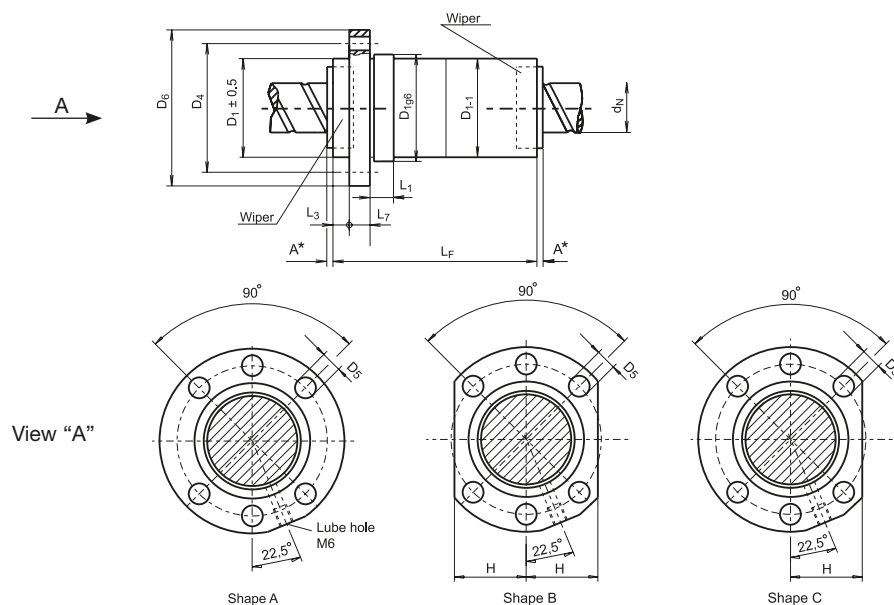


Detailed information page 89.

	Technical data							
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i	Ball diameter d _w [mm]	Dyn. load rating C _a [kN]	Stat. load rating C _{0a} [kN]	Stiffness* R _{nu, ar} [N/μm]
1416	2.25.1,5.3	2	25	3	1.5	3.5	7.8	220
	2.25.1,5.4	2	25	4	1.5	4.5	10.4	290
	2.25.1,5.5	2	25	5	1.5	5.5	13.0	370
	4.25.3.3	4	25	3	3.0	11.4	19.3	270
	4.25.3.4	4	25	4	3.0	14.6	25.7	360
	5.25.3,5.3	5	25	3	3.5	13.7	21.5	260
	5.25.3,5.4	5	25	4	3.5	17.5	28.7	350
	5.25.3,5.5	5	25	5	3.5	21.2	35.9	430
2426	10.25.3,5.6	10	25	3 + 3	3.5	25.2	45.4	500
	10.25.3,5.10	10	25	5 + 5	3.5	40.3	78.4	830
	15.25.3,5.4	15	25	2 + 2	3.5	16.8	28.6	270
	15.25.3,5.6	15	25	3 + 3	3.5	24.9	45.0	410
	20.25.3,5.4	20	25	2 + 2	3.5	17.1	29.5	230
	20.25.3,5.6	20	25	3 + 3	3.5	25.2	46.4	340
	25.25.3,5.4	25	25	2 + 2	3.5	16.7	29.0	180

* Actual stiffness at preload equal to 0.08 x C_a

For engineering consultation or to place an order, please contact us by phone +49 (0) 7431 1288-0



Dimensions

Flanged nut with wipers both ends

	L_F [mm]	D_1 g6 [mm]	L_1 [mm]	D_4 [mm]	D_5 [mm]	D_6 [mm]	L_7 [mm]	L_3 [mm]	H [mm]	A [mm]	LA^* [mm]
1416	43	40	10	51	6.6	62	10	6	24	0	9
	51	40	10	51	6.6	62	10	6	24	0	9
	55	40	10	51	6.6	62	10	6	24	0	9
	49	40	10	51	6.6	62	10	6	24	0	9
	53	40	10	51	6.6	62	10	6	24	0	9
	55	40	10	51	6.6	62	10	6	24	0	9
	60	40	10	51	6.6	62	10	6	24	0	9
	66	40	10	51	6.6	62	10	6	24	0	9
2426	49	40	16	51	6.6	62	10	7	24	0	-
	69	40	16	51	6.6	62	10	7	24	0	-
	48	40	16	51	6.6	62	10	7	24	0	-
	63	40	16	51	6.6	62	10	7	24	0	-
	57	40	16	51	6.6	62	10	7	24	0	-
	77	40	16	51	6.6	62	10	7	24	0	-
	66	40	16	51	6.6	62	10	7	24	0	-

LA *: Additional nut length at each end when using combination wipers

NOMINAL DIAMETER 32 mm

Single nut, 4-point contact

Execution grade P0 – P5



■ **Series 1416:**
DIN standard flanged nut,
ball oversize preload



■ **Series 3426:**
UltraSpeed nut with flange, dual start,
ball oversize preload



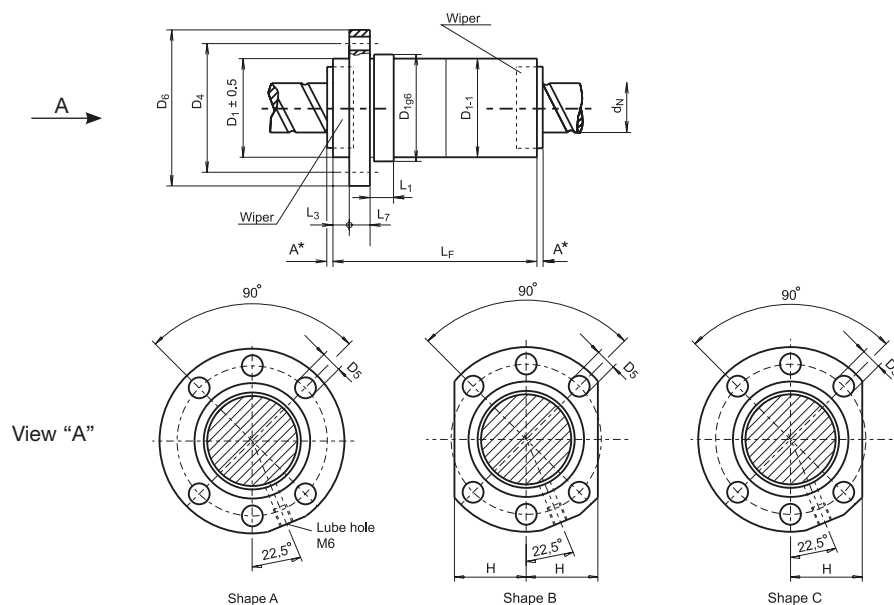
■ **Series 3416:**
UltraSpeed nut with flange, single start,
ball oversize preload



Detailed information page 89.

	Technical data							
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i	Ball diameter d _w [mm]	Dyn. load rating C _a [kN]	Stat. load rating C _{0a} [kN]	Stiffness* R _{nu, ar} [N/μm]
1416	4.32.3.3	4	32	3	3.0	13.1	26.3	350
	4.32.3.4	4	32	4	3.0	16.8	35.0	460
	5.32.3.5.3	5	32	3	3.5	16.0	29.8	350
	5.32.3.5.4	5	32	4	3.5	20.4	39.8	460
	5.32.3.5.5	5	32	5	3.5	24.8	49.7	570
	5.32.3.5.6	5	32	6	3.5	29.0	59.0	680
	6.32.4.3	6	32	3	4.0	18.7	32.7	340
	6.32.4.4	6	32	4	4.0	24.0	43.7	450
	8.32.5.3	8	32	3	5.0	24.6	39.0	320
	8.32.5.4	8	32	4	5.0	31.5	52.0	420
3416	10.32.6.3	10	32	3	6.0	30.8	45.6	300
	10.32.6.4	10	32	4	6.0	39.4	60.8	400
	10.32.6.5	10	32	5	6.0	47.8	76.0	490
	12.32.5.3	12	32	3	5.0	24.5	38.8	280
	15.32.6.3	15	32	3	6.0	30.5	45.3	250
	20.32.6.3	20	32	3	6.0	30.2	44.9	200
	15.32.6.3	15	32	3	6.0	28.5	43.1	270
	15.32.6.4	15	32	4	6.0	38.1	60.4	360
	15.32.6.5	15	32	5	6.0	47.3	77.7	450
	20.32.6.4	20	32	2 + 2	6.0	39.3	63.6	360
3426	20.32.6.6	20	32	3 + 3	6.0	57.9	100.0	530
	20.32.6.8	20	32	4 + 4	6.0	75.6	136.4	710
	25.32.6.4	25	32	2 + 2	6.0	38.7	63.0	300
	30.32.6.4	30	32	2 + 2	6.0	38.1	62.2	250

* Actual stiffness at preload equal to 0.08 x C_a



Dimensions

Flanged nut with wipers both ends

	L _F [mm]	D ₁ g6 [mm]	L ₁ [mm]	D ₄ [mm]	D ₅ [mm]	D ₆ [mm]	L ₇ [mm]	L ₃ [mm]	H [mm]	A [mm]	LA * [mm]
1416	51	50	10	65	9	80	12	6	31.0	0	9
	55	50	10	65	9	80	12	6	31.0	0	9
	57	50	10	65	9	80	12	6	31.0	0	9
	62	50	10	65	9	80	12	6	31.0	0	9
	67	50	10	65	9	80	12	6	31.0	0	9
	73	50	10	65	9	80	12	6	31.0	0	9
	61	50	10	65	9	80	12	6	31.0	0	9
	68	50	10	65	9	80	12	6	31.0	0	9
	72	50	16	65	9	80	12	7	31.0	0	12
	84	50	16	65	9	80	12	7	31.0	0	12
	84	50	16	65	9	80	12	7	31.0	0	12
	95	50	16	65	9	80	12	7	31.0	0	12
	107	50	16	65	9	80	12	7	31.0	0	12
	88	50	16	65	9	80	12	7	31.0	0	12
	101	50	16	65	9	80	12	7	32.5	0	12
	122	50	20	71	9	80	14	7	32.5	0	12
3416	74	56	20	71	9	86	14	7	32.5	0	12
	106	56	20	71	9	86	14	7	32.5	0	12
	104	56	20	71	9	86	14	7	32.5	0	12
3426	68	56	20	71	9	86	14	7	32.5	0	12
	88	56	20	71	9	86	14	7	32.5	0	12
	108	56	20	71	9	86	14	7	32.5	0	12
	78	56	20	71	9	86	14	7	32.5	5	22
	88	56	20	71	9	86	14	7	32.5	5	22

LA *: Additional nut length at each end when using combination wipers

NOMINAL DIAMETER 40 mm

Single nut, 4-point contact

Execution grade P0 – P5



■ **Series 1416:**
DIN standard flanged nut,
ball oversize preload

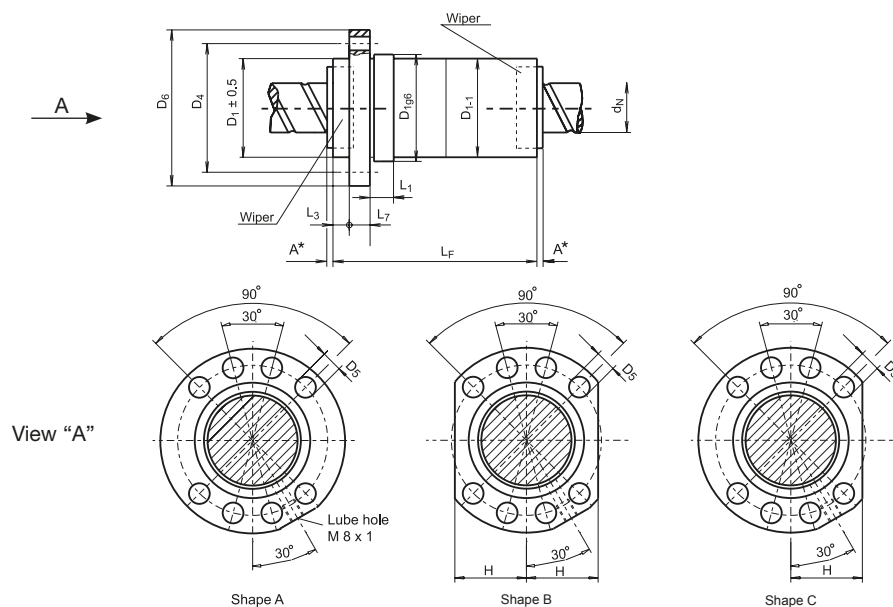


■ **Series 3416:**
UltraSpeed nut with flange, single start,
ball oversize preload



Detailed information page 89.

	Technical data							
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i	Ball diameter d _w [mm]	Dyn. load rating C _a [kN]	Stat. load rating C _{0a} [kN]	Stiffness* R _{nu, ar} [N/μm]
1416	5.40.3,5.3	5	40	3	3.5	17.7	38.2	430
	5.40.3,5.4	5	40	4	3.5	22.7	50.9	570
	5.40.3,5.5	5	40	5	3.5	27.5	63.6	700
	5.40.3,5.6	5	40	6	3.5	32.1	76.4	840
	6.40.4.4	6	40	4	4.0	26.7	56.1	560
	6.40.4.6	6	40	6	4.0	37.9	84.2	820
	8.40.5.4	8	40	4	5.0	35.8	68.2	540
	8.40.5.6	8	40	6	5.0	50.7	102.3	800
	10.40.7,5.3	10	40	3	7.5	46.1	71.3	390
	10.40.7,5.4	10	40	4	7.5	59.0	95.1	520
	10.40.7,5.5	10	40	5	7.5	71.5	118.9	650
	10.40.7,5.6	10	40	6	7.5	83.7	142.7	770
	12.40.7,5.4	12	40	4	7.5	58.9	95.0	500
	15.40.7,5.3	15	40	3	7.5	45.9	71.1	350
	15.40.7,5.4	15	40	4	7.5	58.7	94.8	460
	16.40.7,5.5	16	40	5	7.5	71.1	118.3	550
3416	20.40.7,5.3	20	40	3	7.5	45.5	70.7	300
	20.40.7,5.4	20	40	4	7.5	58.3	94.2	390
	10.40.7,5.3 N	10	40	3	7.5	43.1	67.9	420
	10.40.7,5.4 N	10	40	4	7.5	57.5	95.1	560
	10.40.7,5.5 N	10	40	5	7.5	71.4	122.3	700
	10.40.7,5.6 N	10	40	6	7.5	84.9	149.5	840
	12.40.7,5.4 N	12	40	4	7.5	57.4	95.0	530
	15.40.7,5.3 N	15	40	3	7.5	42.9	67.7	370
	15.40.7,5.4 N	15	40	4	7.5	57.2	94.8	490
	15.40.7,5.5 N	15	40	5	7.5	71.1	121.8	620
	15.40.7,5.6 N	15	40	6	7.5	84.4	148.9	740



Dimensions

Flanged nut with wipers both ends

	L _F [mm]	D ₁ g6 [mm]	L ₁ [mm]	D ₄ [mm]	D ₅ [mm]	D ₆ [mm]	L ₇ [mm]	L ₃ [mm]	H [mm]	A [mm]	LA * [mm]
1416	59	63	10	78	9	93	14	6	35	0	9
	64	63	10	78	9	93	14	6	35	0	9
	69	63	10	78	9	93	14	6	35	0	9
	75	63	10	78	9	93	14	6	35	0	9
	70	63	10	78	9	93	14	6	35	0	9
	85	63	10	78	9	93	14	6	35	0	9
	86	63	16	78	9	93	14	7	35	0	12
	104	63	16	78	9	93	14	7	35	0	12
	86	63	16	78	9	93	14	7	35	0	12
	97	63	16	78	9	93	14	7	35	0	12
	110	63	16	78	9	93	14	7	35	0	12
	122	63	16	78	9	93	14	7	35	0	12
	105	63	16	78	9	93	14	7	35	0	12
	104	63	16	78	9	93	14	7	35	0	12
	121	63	16	78	9	93	14	7	35	0	12
	144	63	16	78	9	93	14	7	35	0	12
3416	121	63	16	78	9	93	14	7	35	0	12
	142	63	16	78	9	93	14	7	35	0	12
	62	70	25	85	9	100	14	7	37.5	0	12
	72	70	25	85	9	100	14	7	37.5	0	12
	82	70	25	85	9	100	14	7	37.5	0	12
	92	70	25	85	9	100	14	7	37.5	0	12
	81	70	25	85	9	100	14	7	37.5	0	12
	76	70	25	85	9	100	14	7	37.5	0	12
	91	70	25	85	9	100	14	7	37.5	0	12
	106	70	25	85	9	100	14	7	37.5	0	12
	121	70	25	85	9	100	14	7	37.5	0	12

LA *: Additional nut length at each end when using combination wipers

NOMINAL DIAMETER 40 mm

Single nut, 4-point contact

Execution grade P0 – P5



■ Series 3426:

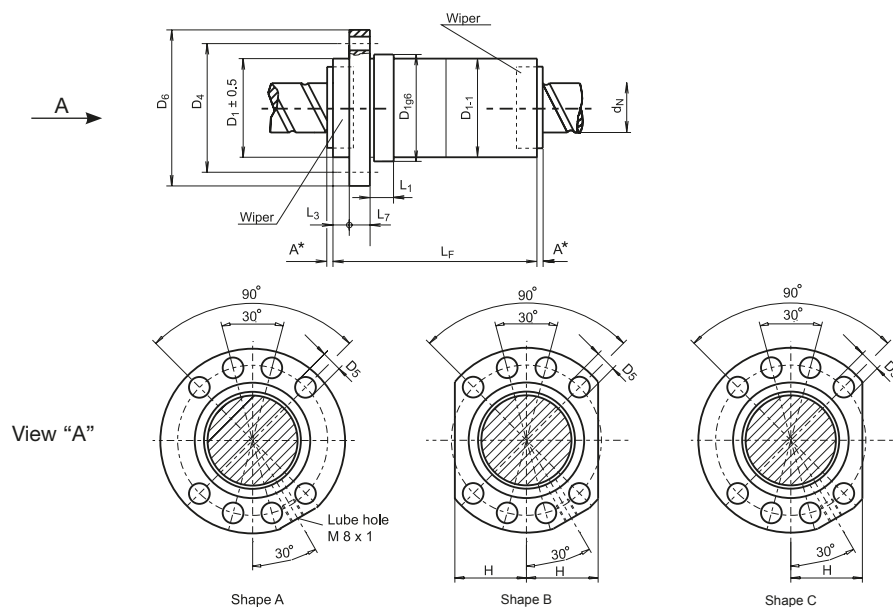
UltraSpeed nut with flange, dual start, ball oversize preload



Detailed information page 89.

	Technical data							
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i	Ball diameter d _w [mm]	Dyn. load rating C _a [kN]	Stat. load rating C _{0a} [kN]	Stiffness* R _{nu, ar} [N/μm]
3426	20.40.6.4	20	40	2 + 2	6.0	44.0	80.4	490
	20.40.6.6	20	40	3 + 3	6.0	64.9	126.3	730
	20.40.6.8	20	40	4 + 4	6.0	84.7	172.2	960
	20.40.7,5.6 N	20	40	3 + 3	7.5	83.8	148.1	710
	20.40.7,5.8 N	20	40	4 + 4	7.5	109.5	201.9	940
	25.40.6.4	25	40	2 + 2	6.0	43.6	79.8	430
	25.40.6.6	25	40	3 + 3	6.0	64.3	125.4	630
	25.40.6.8	25	40	4 + 4	6.0	84.0	171.0	840
	25.40.7,5.6 N	25	40	3 + 3	7.5	86.5	156.3	650
	25.40.7,5.8 N	25	40	4 + 4	7.5	113.0	213.1	870
	30.40.6.6	30	40	3 + 3	6.0	63.6	124.4	550
	30.40.6.8	30	40	4 + 4	6.0	83.1	169.6	730
	30.40.7,5.6 N	30	40	3 + 3	7.5	85.6	155.0	570
	30.40.7,5.8 N	30	40	4 + 4	7.5	111.8	211.3	750
	40.40.6.4	40	40	2 + 2	6.0	42.0	77.5	270
	40.40.6.6	40	40	3 + 3	6.0	61.9	121.9	410
	40.40.7,5.4 N	40	40	2 + 2	7.5	56.5	96.6	280

* Actual stiffness at preload equal to 0.08 x C_a
N: Alternate sizes acc. to DIN 69051



Dimensions

Flanged nut with wipers both ends

	L_F [mm]	D_1 g6 [mm]	L_1 [mm]	D_4 [mm]	D_5 [mm]	D_6 [mm]	L_7 [mm]	L_3 [mm]	H [mm]	A [mm]	LA^* [mm]
3426	69	63	20	78	9	93	14	7	35	0	12
	89	63	20	78	9	93	14	7	35	0	12
	109	63	20	78	9	93	14	7	35	0	12
	90	70	25	85	9	100	14	7	37.5	0	12
	110	70	25	85	9	100	14	7	37.5	0	12
	90	63	20	78	9	93	14	7	35	5	22
	107	63	20	78	9	93	14	7	35	5	22
	132	63	20	78	9	93	14	7	35	5	22
	104	70	25	85	9	100	14	7	37.5	5	22
	129	70	25	85	9	100	14	7	37.5	5	22
	121	63	20	78	9	93	14	7	35	5	22
	151	63	20	78	9	93	14	7	35	5	22
	119	70	25	85	9	100	14	7	37.5	5	22
	149	70	25	85	9	100	14	7	37.5	5	22
	115	63	20	78	9	93	14	7	35	5	22
	148	63	20	78	9	93	14	7	35	5	22
	107	70	25	85	9	100	14	7	37.5	5	22

LA *: Additional nut length at each end when using combination wipers

NOMINAL DIAMETER 50 mm

Single nut, 4-point contact

Execution grade P0 – P5



■ Series 1416:

DIN standard flanged nut,
ball oversize preload



■ Series 3426:

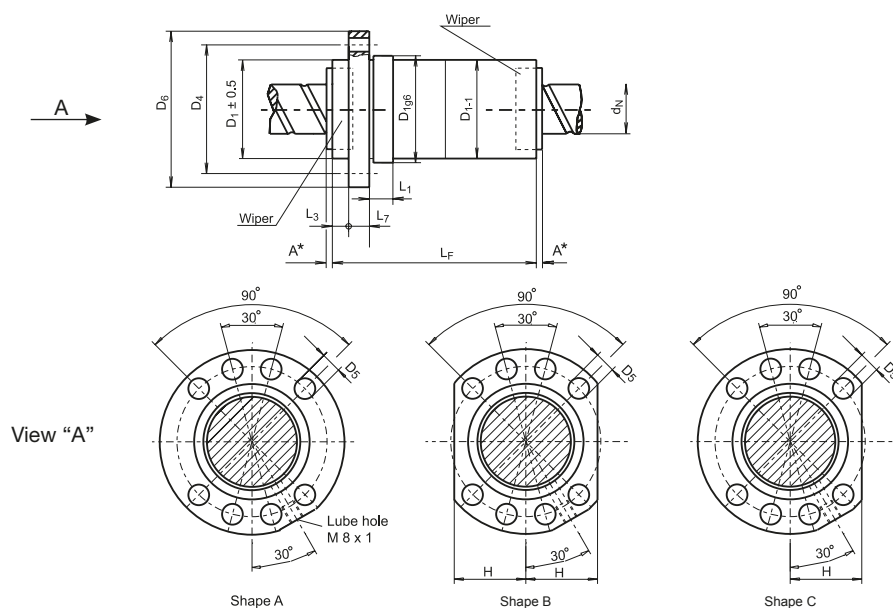
UltraSpeed nut with flange, dual start,
ball oversize preload



Detailed information page 89.

	Technical data							
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i	Ball diameter d _B [mm]	Dyn. load rating C _a [kN]	Stat. load rating C _{0a} [kN]	Stiffness* R _{nu, ar} [N/μm]
1416	5.50.3,5.3	5	50	3	3.5	19.6	48.9	520
	5.50.3,5.4	5	50	4	3.5	25.1	65.2	680
	5.50.3,5.5	5	50	5	3.5	30.4	81.5	850
	5.50.3,5.6	5	50	6	3.5	35.6	97.8	1010
	10.50.7,5.3	10	50	3	7.5	52.7	93.2	510
	10.50.7,5.4	10	50	4	7.5	67.4	124.3	670
	10.50.7,5.5	10	50	5	7.5	81.7	155.4	830
	10.50.7,5.6	10	50	6	7.5	95.6	186.5	990
	15.50.7,5.3	15	50	3	7.5	52.5	93.0	470
	15.50.7,5.4	15	50	4	7.5	67.2	124.0	610
	15.50.7,5.5	15	50	5	7.5	81.4	155.0	760
	15.50.9.3 N	15	50	3	9.0	77.2	130.4	520
	15.50.9.4 N	15	50	4	9.0	98.8	173.9	690
	15.50.9.5 N	15	50	5	9.0	119.7	217.4	850
	20.50.9.3	20	50	3	9.0	76.8	130.0	470
	20.50.9.3 N	20	50	3	9.0	76.8	130.0	470
	20.50.9.4	20	50	4	9.0	98.4	173.3	620
	20.50.9.4 N	20	50	4	9.0	98.4	173.3	620
3426	20.50.7,5.6 N	20	50	3 + 3	7.5	97.5	198.2	980
	20.50.7,5.8 N	20	50	4 + 4	7.5	127.3	270.3	1300
	25.50.6.6	25	50	3 + 3	6	71.4	158.2	860
	25.50.6.8	25	50	4 + 4	6	93.3	215.7	1140
	25.50.7,5.8 N	25	50	4 + 4	7.5	126.6	269.1	1180
	30.50.6.6	30	50	3 + 3	6.0	70.9	157.3	780
	30.50.6.8	30	50	4 + 4	6.0	92.6	214.6	1030
	30.50.7,5.6 N	30	50	3 + 3	7.5	96.3	196.3	800
	30.50.7,5.8 N	30	50	4 + 4	7.5	125.7	267.6	1060
	35.50.7,5.6 N	35	50	3 + 3	7.5	95.5	195.0	720
	35.50.7,5.8 N	35	50	4 + 4	7.5	124.7	265.9	950
	40.50.6.6	40	50	3 + 3	6	71.5	161.2	640
	40.50.7,5.6 N	40	50	3 + 3	7.5	94.6	193.6	640

* Actual stiffness at preload equal to 0.08 x C_a N: Alternate sizes acc. to DIN 69051



Dimensions

Flanged nut with wipers both ends

	L _F [mm]	D ₁ g6 [mm]	L ₁ [mm]	D ₄ [mm]	D ₅ [mm]	D ₆ [mm]	L ₇ [mm]	L ₃ [mm]	H [mm]	A [mm]	LA * [mm]
1416	61	75	10	93	11	110	16	6	42.5	0	9
	66	75	10	93	11	110	16	6	42.5	0	9
	71	75	10	93	11	110	16	6	42.5	0	9
	76	75	10	93	11	110	16	6	42.5	0	9
	88	75	16	93	11	110	16	7	42.5	0	12
	99	75	16	93	11	110	16	7	42.5	0	12
	111	75	16	93	11	110	16	7	42.5	0	12
	124	75	16	93	11	110	16	7	42.5	0	12
	107	75	16	93	11	110	16	7	42.5	0	12
	124	75	16	93	11	110	16	7	42.5	0	12
	142	75	16	93	11	110	16	7	42.5	0	12
	112	82	25	100	11	118	16	7	46.0	0	12
	129	82	25	100	11	118	16	7	46.0	0	12
	147	82	25	100	11	118	16	7	46.0	0	12
	129	75	16	93	11	110	16	7	42.5	0	12
	129	82	25	100	11	118	16	7	46.0	0	12
	150	75	16	93	11	110	16	7	42.5	0	12
	150	82	25	100	11	118	16	7	46.0	0	12
3426	91	82	25	100	11	118	16	7	46.0	0	12
	111	82	25	100	11	118	16	7	46.0	0	12
	109	75	16	93	11	110	16	7	42.5	5	22
	128	75	16	93	11	110	16	7	42.5	5	22
	130	82	25	100	11	118	16	7	46.0	5	22
	118	75	16	93	11	110	16	7	42.5	5	22
	148	75	16	93	11	110	16	7	42.5	5	22
	120	82	25	100	11	118	16	7	46	5	22
	150	82	25	100	11	118	16	7	46.0	5	22
	135	82	25	100	11	118	16	7	46.0	5	22
	170	82	25	100	11	118	16	7	46.0	5	22
	160	75	16	93	11	110	16	7	42.5	5	22
	149	82	25	100	11	118	16	7	46.0	5	22

LA *: Additional nut length at each end when using combination wipers

NOMINAL DIAMETER 60 – 63 mm

Single nut, 4-point contact

Execution grade P0 – P5



■ Series 1416:

DIN standard flanged nut,
ball oversize preload



■ Series 3426:

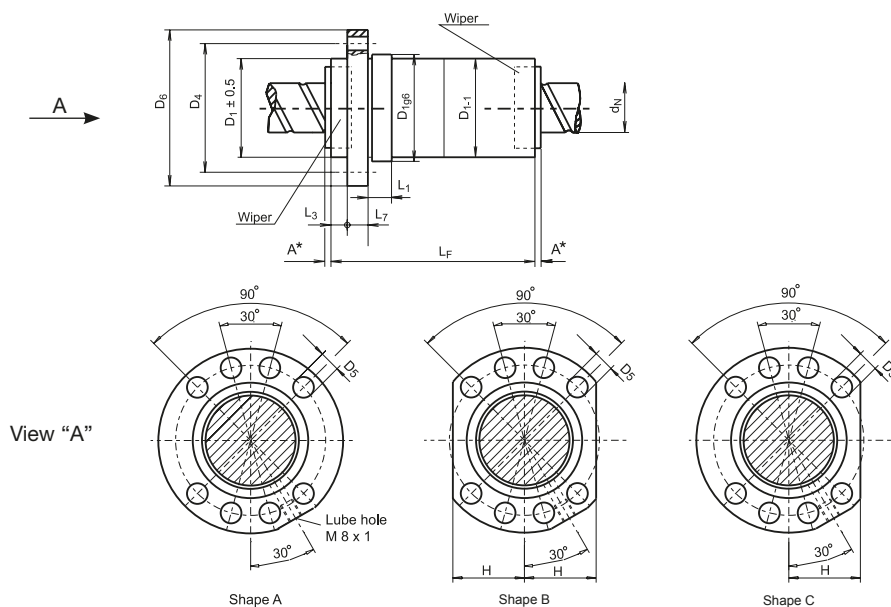
UltraSpeed nut with flange, dual start,
ball oversize preload



Detailed information page 89.

	Technical data							
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i	Ball diameter d _w [mm]	Dyn. load rating C _a [kN]	Stat. load rating C _{0a} [kN]	Stiffness* R _{nu, ar} [N/μm]
3426	25.60.9.6	25	60	3 + 3	9.0	164.3	361.5	1350
	25.60.9.8	25	60	4 + 4	9.0	214.5	492.9	1790
	30.60.9.6	30	60	3 + 3	9.0	163.5	360.1	1250
	30.60.9.8	30	60	4 + 4	9.0	213.5	491.0	1650
	35.60.9.6	35	60	3 + 3	9.0	162.5	358.5	1140
	40.60.9.4	40	60	2 + 2	9.0	109.5	227.0	700
1416	40.60.9.6	40	60	3 + 3	9.0	161.5	356.7	1040
	5.63.3.5.4	5	63	4	3.5	27.8	84.3	820
	5.63.3.5.5	5	63	5	3.5	33.7	105.4	1010
	5.63.3.5.6	5	63	6	3.5	39.5	126.5	1200
	10.63.7.5.3	10	63	3	7.5	59.2	120.7	630
	10.63.7.5.4	10	63	4	7.5	75.8	160.9	830
	10.63.7.5.5	10	63	5	7.5	91.8	201.1	1030
	10.63.7.5.6	10	63	6	7.5	107.4	241.3	1230
	15.63.9.4	15	63	4	9.0	116.7	239.9	940
	15.63.9.6	15	63	6	9.0	165.3	359.9	1390
	20.63.11.3	20	63	3	11.0	115.3	209.1	660
	20.63.11.4	20	63	4	11.0	147.7	278.8	870
3426	20.63.11.5	20	63	5	11.0	179.0	348.5	1070
	20.63.11.6	20	63	6	11.0	209.3	418.2	1280
	20.63.7.5.6	20	63	3 + 3	7.5	107.6	249.1	1260
	20.63.7.5.8	20	63	4 + 4	7.5	140.5	339.7	1660

* Actual stiffness at preload equal to 0.08 x C_a



Dimensions

Flanged nut with wipers both ends

	L_F [mm]	D_1 g6 [mm]	L_1 [mm]	D_4 [mm]	D_5 [mm]	D_6 [mm]	L_7 [mm]	L_3 [mm]	H [mm]	A [mm]	LA^* [mm]
3426	106	95	25	115	13.5	135	20	7	50.0	5	22
	131	95	25	115	13.5	135	20	7	50.0	5	22
	121	95	25	115	13.5	135	20	7	50.0	5	22
	151	95	25	115	13.5	135	20	7	50.0	5	22
	135	95	25	115	13.5	135	20	7	50.0	5	22
	110	95	25	115	13.5	135	20	7	50.0	5	22
1416	150	95	25	115	13.5	135	20	7	50.0	5	22
	68	90	10	108	11.0	125	18	6	47.5	0	9
	73	90	10	108	11.0	125	18	6	47.5	0	9
	78	90	10	108	11.0	125	18	6	47.5	0	9
	91	90	16	108	11.0	125	18	7	47.5	0	12
	102	90	16	108	11.0	125	18	7	47.5	0	12
	112	90	16	108	11.0	125	18	7	47.5	0	12
	124	90	16	108	11.0	125	18	7	47.5	0	12
	133	95	25	115	13.5	135	20	7	50.0	0	12
	167	95	25	115	13.5	135	20	7	50.0	0	12
	136	95	25	115	13.5	135	20	7	50.0	0	12
	157	95	25	115	13.5	135	20	7	50.0	0	12
	182	95	25	115	13.5	135	20	7	50.0	0	12
	207	95	25	115	13.5	135	20	7	50.0	0	12
3426	91	95	25	115	13.5	135	20	7	50.0	-	-
	111	95	25	115	13.5	135	20	7	50.0	-	-

LA *: Additional nut length at each end when using combination wipers

NOMINAL DIAMETER 80 mm

Single nut, 4-point contact

Execution grade P0 – P5



■ **Series 1416:**
DIN standard flanged nut,
ball oversize preload

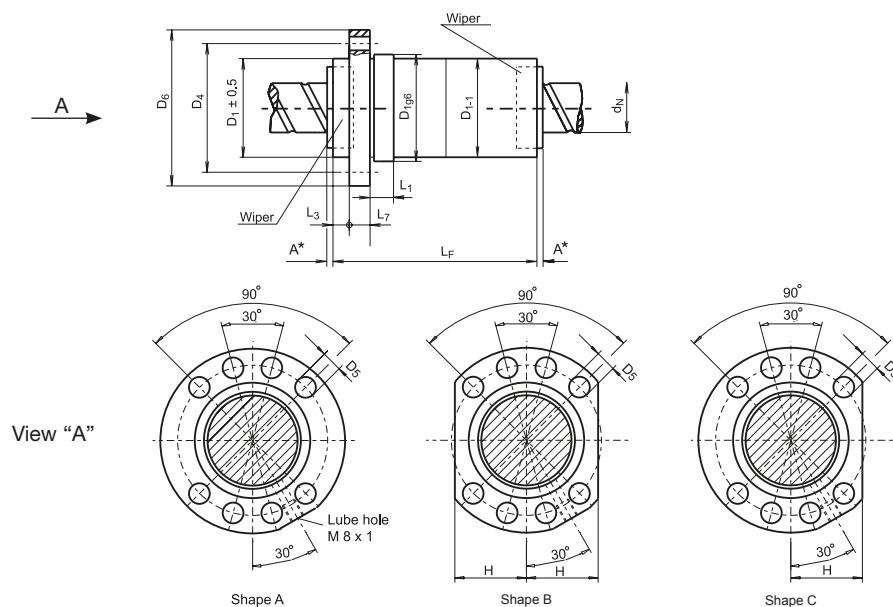


■ **Series 3426:**
UltraSpeed nut with flange, dual start,
ball oversize preload

Xi-Plus Detailed information page 89.

	Technical data							
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i	Ball diameter d _w [mm]	Dyn. load rating C _a [kN]	Stat. load rating C _{0a} [kN]	Stiffness* R _{nu, ar} [N/μm]
1416	5.80.3,5,3	5	80	3	3.5	23.9	81.2	700
	5.80.3,5,4	5	80	4	3.5	30.6	108.2	930
	5.80.3,5,5	5	80	5	3.5	37.1	135.3	1150
	5.80.3,5,6	5	80	6	3.5	43.4	162.4	1370
	10.80.7,5,3	10	80	3	7.5	68.2	164.3	790
	10.80.7,5,4	10	80	4	7.5	87.3	219.1	1040
	10.80.7,5,5	10	80	5	7.5	105.8	273.8	1280
	10.80.7,5,6	10	80	6	7.5	123.8	328.6	1530
	15.80.11,3	15	80	3	11.0	134.4	283.9	940
	15.80.11,4	15	80	4	11.0	172.2	378.5	1240
	15.80.11,5	15	80	5	11.0	208.6	473.1	1540
	15.80.11,6	15	80	6	11.0	244.0	567.7	1830
	20.80.11,3	20	80	3	11.0	134.2	283.5	900
	20.80.11,4	20	80	4	11.0	171.9	377.9	1180
	20.80.11,5	20	80	5	11.0	208.2	472.4	1470
	20.80.11,6	20	80	6	11.0	243.6	566.9	1750
3426	30.80.11,3	30	80	3	11.0	133.5	282.4	790
	25.80.9,10	25	80	5 + 5	9.0	301.0	847.9	3090
	30.80.11,6	30	80	3 + 3	11.0	246.8	595.3	1820
	30.80.11,8	30	80	4 + 4	11.0	322.3	811.8	2420
	30.80.11,10	30	80	5 + 5	11.0	394.9	1028.2	3000
	40.80.11,4	40	80	2 + 2	11.0	166.1	376.8	1090
	40.80.11,6	40	80	3 + 3	11.0	245.1	592.1	1620
	40.80.11,8	40	80	4 + 4	11.0	320.0	807.4	2150

* Actual stiffness at preload equal to 0.08 x C_a



View "A"

P

Dimensions

Flanged nut with wipers both ends

	L_F [mm]	D_1 g6 [mm]	L_1 [mm]	D_4 [mm]	D_5 [mm]	D_6 [mm]	L_7 [mm]	L_3 [mm]	H [mm]	A [mm]	LA^* [mm]
1416	64	105	16	125	13.5	145	20	7	55.0	0	9
	69	105	16	125	13.5	145	20	7	55.0	0	9
	74	105	16	125	13.5	145	20	7	55.0	0	9
	79	105	16	125	13.5	145	20	7	55.0	0	9
	93	105	16	125	13.5	145	20	7	55.0	0	12
	104	105	16	125	13.5	145	20	7	55.0	0	12
	114	105	16	125	13.5	145	20	7	55.0	0	12
	125	105	16	125	13.5	145	20	7	55.0	0	12
	121	125	25	145	13.5	165	25	7	65.0	0	12
	138	125	25	145	13.5	165	25	7	65.0	0	12
	153	125	25	145	13.5	165	25	7	65.0	0	12
	169	125	25	145	13.5	165	25	7	65.0	0	12
	143	125	25	145	13.5	165	25	7	65.0	0	12
	164	125	25	145	13.5	165	25	7	65.0	0	12
	185	125	25	145	13.5	165	25	7	65.0	0	12
	206	125	25	145	13.5	165	25	7	65.0	0	12
3426	190	125	25	145	13.5	165	25	7	65.0	5	22
	157	125	25	145	13.5	165	25	7	65.0	5	22
	136	125	25	145	13.5	165	25	7	65.0	5	22
	154	125	25	145	13.5	165	25	7	65.0	5	22
	184	125	25	145	13.5	165	25	7	65.0	5	22
	113	125	25	145	13.5	165	25	7	65.0	5	24
	153	125	25	145	13.5	165	25	7	65.0	5	24
	193	125	25	145	13.5	165	25	7	65.0	5	24

LA *: Additional nut length at each end when using combination wipers

Positioning ball screws 16 - 125 mm

NOMINAL DIAMETER 100 – 125 mm

Single nut, 4-point contact

Execution grade P0 – P5



■ Series 1416:

DIN standard flanged nut,
ball oversize preload

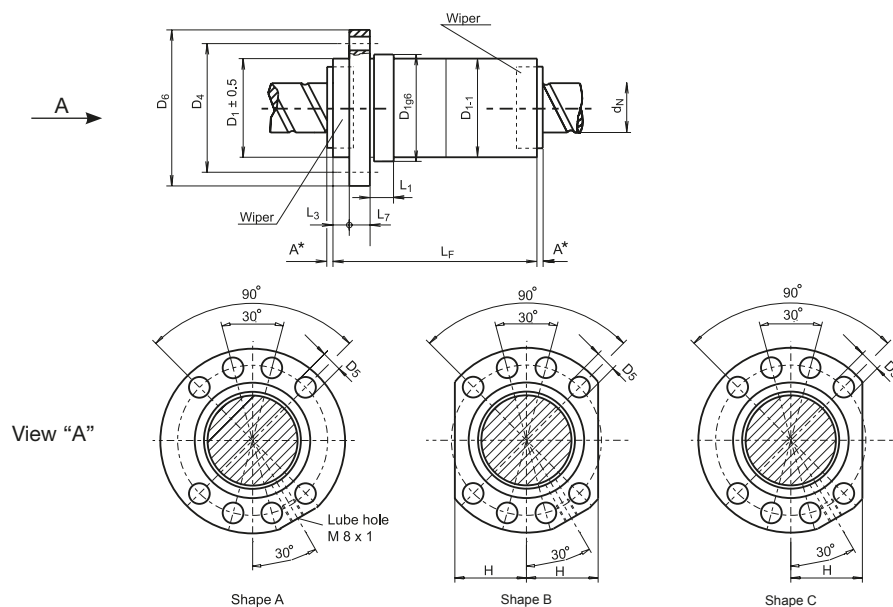


■ Series 3426:

UltraSpeed nut with flange, dual start,
ball oversize preload

	Technical data							
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i	Ball diameter d _w [mm]	Dyn. load rating C _a [kN]	Stat. load rating C _{0a} [kN]	Stiffness* R _{nu, ar} [N/μm]
1416	10.100.7,5.3	10	100	3	7.5	75.0	208.2	910
	10.100.7,5.4	10	100	4	7.5	96.0	277.6	1200
	10.100.7,5.5	10	100	5	7.5	116.3	347.0	1480
	10.100.7,5.6	10	100	6	7.5	136.1	416.4	1770
	15.100.11.3	15	100	3	11.0	152.2	373.2	1180
	15.100.11.4	15	100	4	11.0	195.3	497.6	1560
	15.100.11.5	15	100	5	11.0	236.7	622.0	1930
	15.100.11.6	15	100	6	11.0	276.8	746.4	2300
	20.100.11.3	20	100	3	11.0	152.4	372.9	1160
	20.100.11.4	20	100	4	11.0	195.1	497.1	1520
	20.100.11.5	20	100	5	11.0	236.4	621.4	1890
	20.100.11.6	20	100	6	11.0	276.5	745.7	2250
3426	30.100.11.8	30	100	4 + 4	11.0	350.8	1001.4	3010
	30.100.11.10	30	100	5 + 5	11.0	429.9	1268.4	3740
	40.100.11.4	40	100	2 + 2	11.0	181.3	465.7	1400
	40.100.11.6	40	100	3 + 3	11.0	267.5	731.8	2090
1416	10.125.7,5.4	10	125	4	7.5	105.1	350.8	1340
	20.125.12,7.6	20	125	6	12.7	369.5	1074.7	2710
	20.125.12,7.8	20	125	8	12.7	473.2	1433.0	3580

* Actual stiffness at preload equal to 0.08 x C_a



Dimensions

Flanged nut with wipers both ends

	L_F [mm]	D_1 g6 [mm]	L_1 [mm]	D_4 [mm]	D_5 [mm]	D_6 [mm]	L_7 [mm]	L_3 [mm]	H [mm]	A [mm]	LA^* [mm]
1416	93	125	16	145	13.5	165	22	7	65	0	12
	104	125	16	145	13.5	165	22	7	65	0	12
	114	125	16	145	13.5	165	22	7	65	0	12
	126	125	16	145	13.5	165	22	7	65	0	12
	127	150	25	176	17.5	202	30	7	77.5	0	12
	144	150	25	176	17.5	202	30	7	77.5	0	12
	159	150	25	176	17.5	202	30	7	77.5	0	12
	175	150	25	176	17.5	202	30	7	77.5	0	12
	144	150	25	176	17.5	202	30	7	77.5	0	12
	164	150	25	176	17.5	202	30	7	77.5	0	12
	185	150	25	176	17.5	202	30	7	77.5	0	12
	206	150	25	176	17.5	202	30	7	77.5	0	12
3426	155	150	25	176	17.5	202	30	7	77.5	5	22
	185	150	25	176	17.5	202	30	7	77.5	5	22
	128	150	25	176	17.5	202	30	7	77.5	5	22
	168	150	25	176	17.5	202	30	7	77.5	5	22
1416	139	150	10	176	17.5	202	25	7	77.5	0	12
	217	170	25	196	17.5	222	30	7	87.5	0	12
	264	170	25	196	17.5	222	30	7	87.5	0	12

LA *: Additional nut length at each end when using combination wipers

Positioning ball screws 16 - 125 mm

NOMINAL DIAMETER 16 – 20 mm

Double nut, 2-point contact

Execution grade P0 – P5



■ Series 1516:

DIN standard flanged nut
with UNILOCK preload



■ Series 2526:

End cap nut with flange, dual start,
pitch offset preload

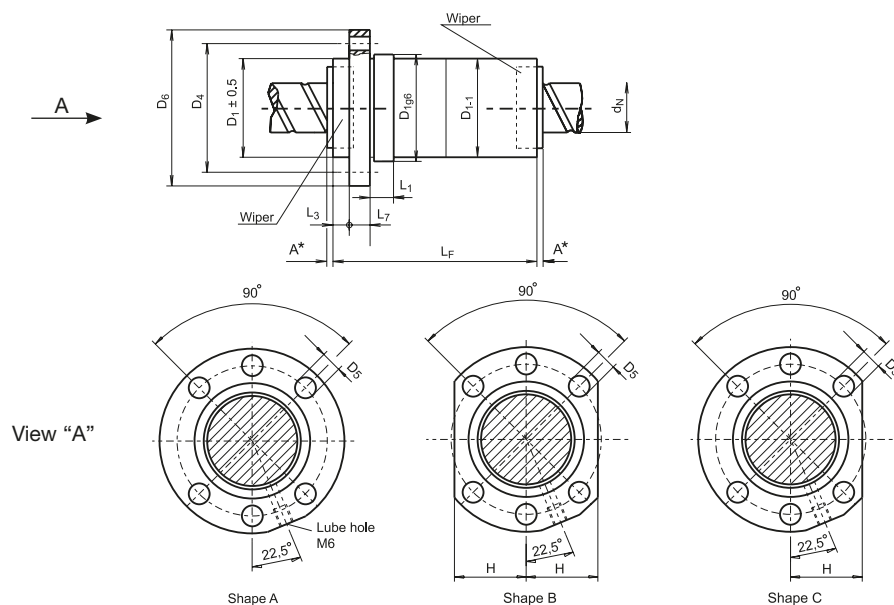
HIGH
ETA⁺
PERFORMANCE

Xi-Plus

Detailed information page 89.

Technical data												
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i 2x		Ball diameter d _w [mm]	Dyn. load rating C _a [kN]		Stat. load rating C _{0a} [kN]		Stiffness* R _{nu, ar} [N/μm]	
1516	2.16.1,5.3	2	16	3		1.5	2.9		4.9		240	
	2.16.1,5.4	2	16	4		1.5	3.8		6.5		330	
	4.16.3.3	4	16	3		3.0	8.9		11.4		270	
	4.16.3.4	4	16	4		3.0	11.3		15.2		360	
	5.16.3,5.3	5	16	3	2 x 3	3.5	10.1	13.2	12.0	13.1	240	270
	5.16.3,5.4	5	16	4		3.5	12.9		16.0		320	
2526	10.16.3,5.3	10	16		3 + 3	3.5		13.0		13.7	260	
	10.16.3,5.4	10	16		4 + 4	3.5		17.3		19.2	340	
	10.16.3,5.5	10	16		5 + 5	3.5		21.5		24.7	430	
1516	2.20.1,5.3	2	20	3		1.5	3.2		6.2		300	
	2.20.1,5.4	2	20	4		1.5	4.1		8.2		390	
	2.20.1,5.5	2	20	5		1.5	5.0		10.3		480	
	4.20.3.3	4	20	3		3.0	10.1		14.9		350	
	4.20.3.4	4	20	4		3.0	13.0		19.9		460	
	5.20.3,5.3	5	20	3		3.5	12.1		16.7		330	
	5.20.3,5.4	5	20	4		3.5	15.5		22.3		440	
2526	10.20.3,5.5	10	20		5 + 5	3.5		25.2		32.5	590	
	20.20.3,5.2	20	20		2 + 2	3.5		9.3		10.5	150	
	20.20.3,5.3	20	20		3 + 3	3.5		14.5		17.4	220	

* Actual stiffness at preload equal to 0.1 x C_a



View "A"

Dimensions

Flanged nut with wipers both ends

	L _F [mm]		D _{1 g6} [mm]	L ₁ [mm]	D ₄ [mm]	D ₅ [mm]	D ₆ [mm]	L ₇ [mm]	L ₃ [mm]	H [mm]	A [mm]	LA * [mm]
1516	62		28	10	38	5.5	48	10	6	20	0	9
	70		28	10	38	5.5	48	10	6	20	0	9
	73		28	10	38	5.5	48	10	6	20	0	9
	81		28	10	38	5.5	48	10	6	20	0	9
	84	85	28	10	38	5.5	48	10	6	20	0	9
	95		28	10	38	5.5	48	10	6	20	0	9
2526		44	32	16	42	5.5	52	10	12	20	0	-
		54	32	16	42	5.5	52	10	12	20	0	-
		64	32	16	42	5.5	52	10	12	20	0	-
1516	72		36	10	47	6.6	58	10	6	22	0	9
	80		36	10	47	6.6	58	10	6	22	0	9
	89		36	10	47	6.6	58	10	6	22	0	9
	73		36	10	47	6.6	58	10	6	22	0	9
	82		36	10	47	6.6	58	10	6	22	0	9
	85		36	10	47	6.6	58	10	6	22	0	9
	95		36	10	47	6.6	58	10	6	22	0	9
		69	36	16	47	6.6	58	10	7	22	0	-
2526		57	36	16	47	6.6	58	10	7	22	0	-
		77	36	16	47	6.6	58	10	7	22	0	-

LA *: Additional nut length at each end when using combination wipers

Positioning ball screws 16 - 125 mm

NOMINAL DIAMETER 25 mm

Double nut, 2-point contact

Execution grade P0 – P5



■ **Series 1516:**
DIN standard flanged nut
with UNILOCK preload



■ **Series 2526:**
End cap nut with flange, dual start,
pitch offset preload

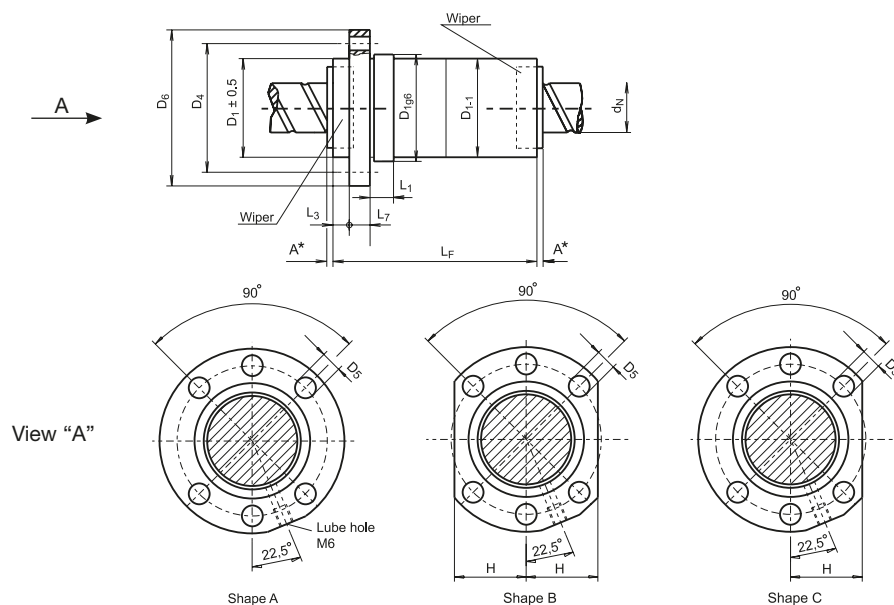
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Detailed information page 89.

Technical data												
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i 2x		Ball diameter d _w [mm]	Dyn. load rating C _a [kN]		Stat. load rating C _{0a} [kN]		Stiffness* R _{nu, ar} [N/μm]	
1516	2.25.1,5,3	2	25	3		1.5	3.5		7.8		350	
	2.25.1,5,4	2	25	4		1.5	4.5		10.4		460	
	2.25.1,5,5	2	25	5		1.5	5.5		13.0		570	
	2.25.1,5,7	2	25	7		1.5	7.3		18.1		790	
	4.25.3,3	4	25	3		3.0	11.4		19.3		430	
	4.25.3,4	4	25	4		3.0	14.6		25.7		570	
	5.25.3,5,3	5	25	3	3 + 3	3.5	13.7	18.1	21.5	23.4	420	460
	5.25.3,5,4	5	25	4	4 + 4	3.5	17.5	23.1	28.7	31.2	550	610
	5.25.3,5,5	5	25	5	5 + 5	3.5	21.2	28.0	35.9	39.0	680	750
2526	10.25.3,5,3	10	25		3 + 3	3.5		16.9		22.5		460
	10.25.3,5,5	10	25		5 + 5	3.5		28.0		40.4		750
	15.25.3,5,2	15	25		2 + 2	3.5		10.7		13.3		250
	15.25.3,5,3	15	25		3 + 3	3.5		16.7		22.2		390
	20.25.3,5,2	20	25		2 + 2	3.5		10.9		13.8		220
	20.25.3,5,3	20	25		3 + 3	3.5		16.9		22.9		330
	25.25.3,5,2	25	25		2 + 2	3.5		10.6		13.5		180

* Actual stiffness at preload equal to 0.1 x C_a



View "A"

Dimensions

Flanged nut with wipers both ends

L _F [mm]		D ₁ g6 [mm]	L ₁ [mm]	D ₄ [mm]	D ₅ [mm]	D ₆ [mm]	L ₇ [mm]	L ₃ [mm]	H [mm]	A [mm]	LA * [mm]
											
72		40	10	51	6.6	62	10	6	24	0	9
77		40	10	51	6.6	62	10	6	24	0	9
81		40	10	51	6.6	62	10	6	24	0	9
99		40	10	51	6.6	62	10	6	24	0	9
73		40	10	51	6.6	62	10	6	24	0	9
82		40	10	51	6.6	62	10	6	24	0	9
85	76	40	10	51	6.6	62	10	6	24	0	9
95	90	40	10	51	6.6	62	10	6	24	0	9
107	100	40	10	51	6.6	62	10	6	24	0	9
	49	40	16	51	6.6	62	10	7	24	0	-
	69	40	16	51	6.6	62	10	7	24	0	-
	48	40	16	51	6.6	62	10	7	24	0	-
	63	40	16	51	6.6	62	10	7	24	0	-
	57	40	16	51	6.6	62	10	7	24	0	-
	77	40	16	51	6.6	62	10	7	24	0	-
	66	40	16	51	6.6	62	10	7	24	0	-

LA *: Additional nut length at each end when using combination wipers

Positioning ball screws 16 - 125 mm

NOMINAL DIAMETER 32 mm

Double nut, 2-point contact

Execution grade P0 – P5



■ **Series 1516:**
DIN standard flanged nut
with UNILOCK preload



■ **Series 3526:**
UltraSpeed nut with flange, dual start,
pitch offset preload

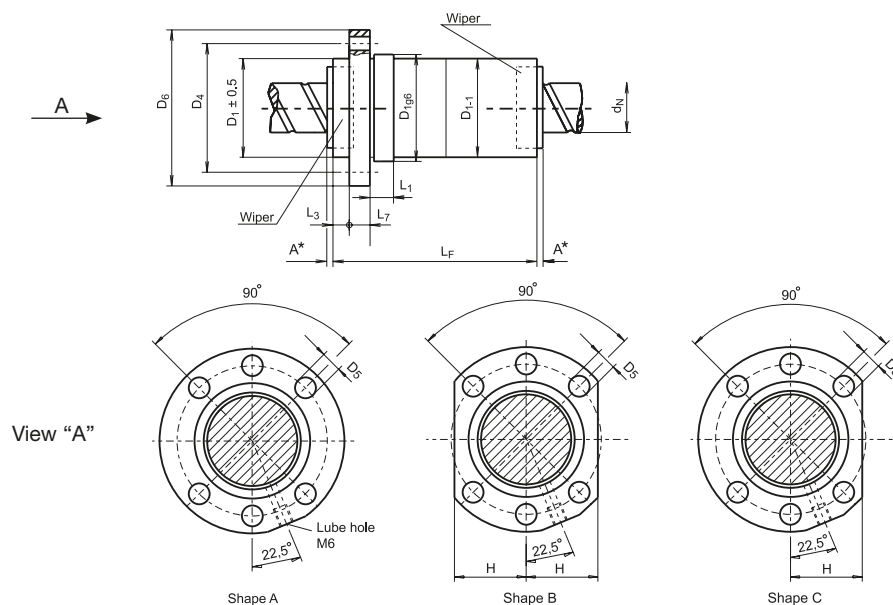
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Detailed information page 89.

Technical data												
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i 2x		Ball diameter d _w [mm]	Dyn. load rating C _a [kN]		Stat. load rating C _{0a} [kN]		Stiffness* R _{nu, ar} [N/μm]	
1516	2.32.1,5.3	2	32	3		1.5	3.9		10.2		420	
	4.32.3.3	4	32	3		3.0	13.1		26.3		550	
	4.32.3.4	4	32	4		3.0	16.8		35.0		730	
	5.32.3,5.3	5	32	3	3 + 3	3.5	16.0	21.3	29.8	32.4	550	610
	5.32.3,5.4	5	32	4	4 + 4	3.5	20.4	27.3	39.8	43.2	730	800
	5.32.3,5.5	5	32	5	5 + 5	3.5	24.8	33.0	49.7	54.0	900	990
	5.32.3,5.6	5	32	6	2 x 6	3.5	29.0	38.6	59.6	64.9	1070	1180
	6.32.4.3	6	32	3	3 + 3	4.0	18.7	24.8	32.7	35.6	530	600
	6.32.4.4	6	32	4		4.0	24.0		43.7		710	
	8.32.5.3	8	32	3		5.0	24.6		39.0		510	
	8.32.5.4	8	32	4	4 + 4	5.0	31.5	41.5	52.0	56.6	680	740
	10.32.6.3	10	32	3	3 + 3	6.0	30.8	40.3	45.6	49.7	490	540
	10.32.6.4	10	32	4	4 + 4	6.0	39.4	51.6	60.8	66.3	650	710
	10.32.6.5	10	32	5	2 x 5	6.0	47.8	62.6	76.0	82.9	800	880
	12.32.5.3	12	32		3 + 3	5.0		32.2		42.3		510
	12.32.5.4	12	32	4		5.0	31.3		51.8		620	
	12.32.5.5	12	32	5		5.0	37.9		64.7		760	
3526	15.32.6.3	15	32		2 x 3	6.0		40.0		49.4		470
	20.32.6.2	20	32		2 + 2	6.0		24.8		29.8		330
	20.32.6.3	20	32		3 + 3	6.0		38.5		49.6		500
	20.32.6.4	20	32		4 + 4	6.0		51.4		69.4		670
	25.32.6.2	25	32		2 + 2	6.0		24.5		29.4		290
	30.32.6.2	30	32		2 + 2	6.0		24.1		29.1		250

* Actual stiffness at preload equal to 0.1 x C_a



View "A"

Dimensions

Flanged nut with wipers both ends

L _F [mm]		D _{1 g6} [mm]	L ₁ [mm]	D ₄ [mm]	D ₅ [mm]	D ₆ [mm]	L ₇ [mm]	L ₃ [mm]	H [mm]	A [mm]	LA * [mm]
											
75		50	10	65	9	80	12	6	31.0	0	9
75		50	10	65	9	80	12	6	31.0	0	9
84		50	10	65	9	80	12	6	31.0	0	9
87	78	50	10	65	9	80	12	6	31.0	0	9
97	92	50	10	65	9	80	12	6	31.0	0	9
107	102	50	10	65	9	80	12	6	31.0	0	9
114	114	50	10	65	9	80	12	6	31.0	0	9
97	91	50	10	65	9	80	12	6	31.0	0	9
110		50	10	65	9	80	12	6	31.0	0	9
125		50	16	65	9	80	12	7	31.0	0	12
140	132	50	16	65	9	80	12	7	31.0	0	12
144	130	50	16	65	9	80	12	7	31.0	0	12
165	140	50	16	65	9	80	12	7	31.0	0	12
187	187	50	16	65	9	80	12	7	31.0	0	12
	166	50	16	65	9	80	12	7	31.0	0	12
191		50	16	65	9	80	12	7	31.0	0	12
218		50	16	65	9	80	12	7	31.0	0	12
	177	50	16	65	9	80	12	7	31.0	0	12
	68	56	20	71	9	86	14	7	32.5	0	12
	88	56	20	71	9	86	14	7	32.5	0	12
	108	56	20	71	9	86	14	7	32.5	0	12
	78	56	20	71	9	86	14	7	32.5	5	22
	88	56	20	71	9	86	14	7	32.5	5	22

LA *: Additional nut length at each end when using combination wipers

Positioning ball screws 16 - 125 mm

NOMINAL DIAMETER 40 mm

Double nut, 2-point contact

Execution grade P0 – P5



■ **Series 1516:**
DIN standard flanged nut
with UNILOCK preload



■ **Series 3526:**
UltraSpeed nut with flange, dual start,
pitch offset preload

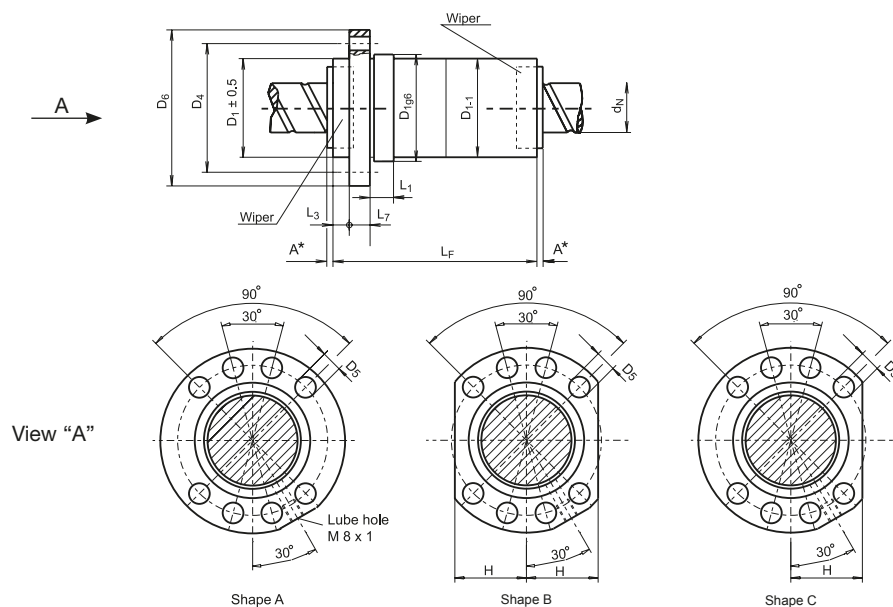
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Detailed information page 89.

Technical data												
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i 2x		Ball diameter d _w [mm]	Dyn. load rating C _a [kN]		Stat. load rating C _{0a} [kN]		Stiffness*	
											R _{nu, ar} [N/μm]	
1516	5.40.3,5,3	5	40	3	3 + 3	3.5	17.7	23.8	38.2	41.5	670	750
	5.40.3,5,4	5	40	4	4 + 4	3.5	22.7	30.5	50.9	55.3	890	990
	5.40.3,5,5	5	40	5	5 + 5	3.5	27.5	36.9	63.6	69.1	1100	1230
	5.40.3,5,6	5	40	6	6 + 6	3.5	32.1	43.2	76.4	83.0	1310	1460
	6.40.4,4	6	40	4	4 + 4	4.0	26.7	35.8	56.1	61.0	880	980
	6.40.4,6	6	40	6		4.0	37.9		84.2		1300	
	8.40.5,4	8	40	4	4 + 4	5.0	35.8	47.5	68.2	74.2	870	960
	8.40.5,6	8	40	6		5.0	50.7		102.3		1280	
	10.40.7,5,3	10	40	3	3 + 3	7.5	46.1	60.4	71.3	77.8	630	700
	10.40.7,5,4	10	40	4	4 + 4	7.5	59.0	77.3	95.1	103.8	830	920
3526	10.40.7,5,5	10	40	5	2 x 5	7.5	71.5	93.7	118.9	129.7	1030	1140
	12.40.7,5,3	12	40	3	2 x 3	7.5	46.0	60.3	71.2	77.7	610	670
	12.40.7,5,4	12	40	4		7.5	58.9		95.0		810	
	15.40.7,5,3	15	40	3	2 x 3	7.5	45.9	60.1	71.1	77.5	570	630
	15.40.7,5,4	15	40	4	2 x 4	7.5	58.7	76.9	94.8	103.4	760	830
	20.40.6,2	20	40		2 + 2	6.0		28.0		37.5		440
	20.40.6,3	20	40		3 + 3	6.0		43.4		62.5		670
	20.40.6,4	20	40		4 + 4	6.0		58.0		87.5		890
	20.40.6,5	20	40		5 + 5	6.0		72.0		112.5		1110
	20.40.7,5,3 N	20	40		3 + 3	7.5		55.7		73.4		650
	20.40.7,5,4 N	20	40		4 + 4	7.5		74.4		102.8		870
	20.40.7,5,5 N	20	40		5 + 5	7.5		92.4		132.2		1080
	25.40.6,3	25	40		3 + 3	6.0		43.1		62.1		600
	25.40.6,4	25	40		4 + 4	6.0		57.5		86.9		800
	25.40.7,5,3 N	25	40		3 + 3	7.5		57.5		77.5		620
	25.40.7,5,4 N	25	40		4 + 4	7.5		76.8		108.5		820
	30.40.6,3	30	40		3 + 3	6.0		42.6		61.6		540
	30.40.6,4	30	40		4 + 4	6.0		56.9		86.2		710
	40.40.6,2	40	40		2 + 2	6.0		26.7		36.2		280
	40.40.6,3	40	40		3 + 3	6.0		41.5		60.3		420
	40.40.7,5,2 N	40	40		2 + 2	7.5		35.7		45.2		290

* Actual stiffness at preload equal to 0.1 x C_a
N: Alternate sizes acc. to DIN 69051



Dimensions

Flanged nut with wipers both ends

	L _F [mm]		D ₁ g6 [mm]	L ₁ [mm]	D ₄ [mm]	D ₅ [mm]	D ₆ [mm]	L ₇ [mm]	L ₃ [mm]	H [mm]	A [mm]	LA * [mm]
1516	89	84	63	10	78	9	93	14	6	35.0	0	9
	99	94	63	10	78	9	93	14	6	35.0	0	9
	109	104	63	10	78	9	93	14	6	35.0	0	9
	125	114	63	10	78	9	93	14	6	35.0	0	9
	112	106	63	10	78	9	93	14	6	35.0	0	9
	137		63	10	78	9	93	14	6	35.0	0	9
	142	134	63	10	78	9	93	14	7	35.0	0	9
	176		63	10	78	9	93	14	7	35.0	0	9
	147	136	63	16	78	9	93	14	7	35.0	0	12
	167	157	63	16	78	9	93	14	7	35.0	0	12
	189	189	63	16	78	9	93	14	7	35.0	0	12
	152	152	63	16	78	9	93	14	7	35.0	0	12
	177		63	16	78	9	93	14	7	35.0	0	12
	180	180	63	16	78	9	93	14	7	35.0	0	12
	211	211	63	16	78	9	93	14	7	35.0	0	12
3526		69	63	20	78	9	93	14	7	35.0	0	12
		89	63	20	78	9	93	14	7	35.0	0	12
		109	63	20	78	9	93	14	7	35.0	0	12
		129	63	20	78	9	93	14	7	35.0	0	12
		90	70	25	85	9	100	14	7	37.5	0	12
		110	70	25	85	9	100	14	7	37.5	0	12
		130	70	25	85	9	100	14	7	37.5	0	12
		107	63	16	78	9	93	14	7	35.0	5	22
		132	63	16	78	9	93	14	7	35.0	5	22
		104	70	25	85	9	100	14	7	37.5	5	22
		129	70	25	85	9	100	14	7	37.5	5	22
		121	63	16	78	9	93	14	7	35.0	5	22
		151	63	16	78	9	93	14	7	35.0	5	22
		108	63	20	78	9	93	14	7	35.0	5	22
		148	63	20	78	9	93	14	7	35.0	5	22
		107	70	25	85	9	100	14	7	37.5	5	22

LA *: Additional nut length at each end when using combination wipers

Positioning ball screws 16 - 125 mm

NOMINAL DIAMETER 50 mm

Double nut, 2-point contact

Execution grade P0 – P5



■ **Series 1516:**
DIN standard flanged nut
with UNILOCK preload



■ **Series 3526:**
UltraSpeed nut with flange, dual start,
pitch offset preload

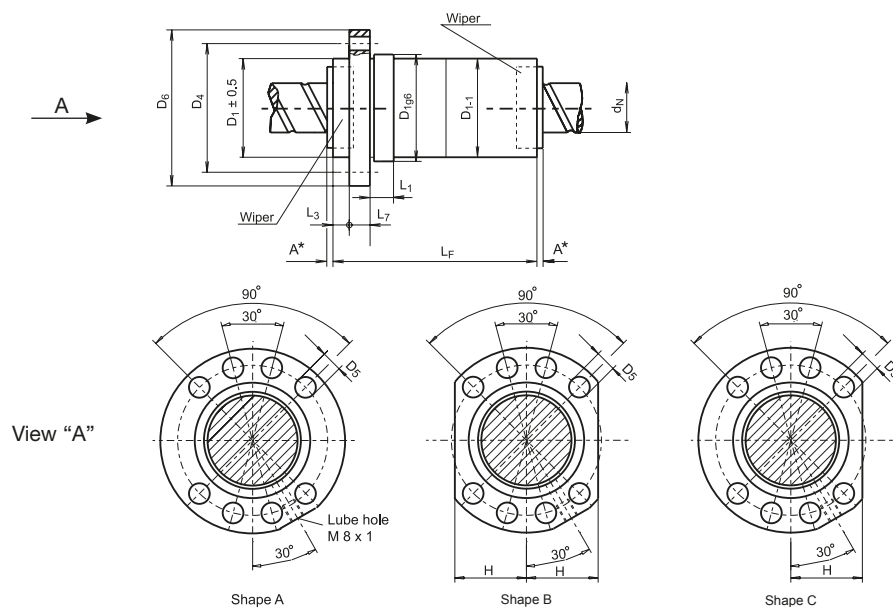
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Xi-Plus

Detailed information page 89.

Technical data												
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i 2x		Ball diameter d _w [mm]	Dyn. load rating C _a [kN]		Stat. load rating C _{0a} [kN]		Stiffness* R _{nu, ar} [N/μm]	
1516	5.50.3,5,3	5	50	3		3.5	19.6		48.9		810	
	5.50.3,5,4	5	50	4	4 + 4	3.5	25.1	34.0	65.2	70.8	1070	1190
	5.50.3,5,5	5	50	5	5 + 5	3.5	30.4	41.2	81.5	88.5	1320	1470
	5.50.3,5,6	5	50	6	6 + 6	3.5	35.6	48.2	97.8	106.3	1570	1760
	10.50.7,5,3	10	50	3	3 + 3	7.5	52.7	69.5	93.2	101.5	810	890
	10.50.7,5,4	10	50	4	4 + 4	7.5	67.4	89.0	124.3	135.4	1060	1180
	10.50.7,5,5	10	50	5	2 x 5	7.5	81.7	107.8	155.4	169.2	1310	1460
	12.50.7,5,3	12	50	3		7.5	52.6		93.1		790	
	12.50.7,5,4	12	50	4		7.5	67.4		124.2		1040	
	15.50.7,5,3	15	50	3	2 x 3	7.5	52.5	69.2	93.0	101.3	760	830
	15.50.7,5,4	15	50	4		7.5	67.2		124.0		990	
	15.50.7,5,5	15	50	5		7.5	81.4		155.0		1230	
	15.50.9,3 N	15	50	3	2 x 3	9.0	77.2	99.2	130.4	142.2	850	890
3526	20.50.9,3	20	50	3	2 x 3	9.0	76.8	98.7	130.0	141.7	780	810
	20.50.9,3 N	20	50	3		9.0	76.8		130.0		780	
	20.50.9,4	20	50	4	2 x 4	9.0	98.4	126.4	173.3	189.0	1020	1070
	20.50.9,4 N	20	50	4		9.0	98.4		173.3		1020	
	20.50.9,5	20	50	5		9.0	119.2		216.6		1270	
	20.50.7,5,3 N	20	50		3 + 3	7.5		65.3		98.1		890
	20.50.7,5,4 N	20	50		4 + 4	7.5		87.2		137.4		1180
	20.50.7,5,5 N	20	50		5 + 5	7.5		108.2		176.6		1470
	25.50.7,5,3 N	25	50		3 + 3	7.5		64.9		97.7		820
	25.50.7,5,4 N	25	50		4 + 4	7.5		86.7		136.8		1090
	30.50.6,4	30	50		4 + 4	6.0		63.9		108.9		980
	30.50.7,5,3 N	30	50		3 + 3	7.5		64.5		97.2		750
	30.50.7,5,4 N	30	50		4 + 4	7.5		86.1		136.0		1010
3526	35.50.7,5,3 N	35	50		3 + 3	7.5		63.9		96.6		690
	35.50.7,5,4 N	35	50		4 + 4	7.5		85.4		135.2		920
	40.50.7,5,3 N	40	50		3 + 3	7.5		63.3		95.9		630

* Actual stiffness at preload equal to 0.1 x C_a | N: Alternate sizes acc. to DIN 69051



Dimensions

Flanged nut with wipers both ends

	L_F [mm]	D_{1g6} [mm]	L_1 [mm]	D_4 [mm]	D_5 [mm]	D_6 [mm]	L_7 [mm]	L_3 [mm]	H [mm]	A [mm]	LA^* [mm]
1516	91	75	10	93	11	110	16	6	42.5	0	9
	101	93	10	93	11	110	16	6	42.5	0	9
	111	103	10	93	11	110	16	6	42.5	0	9
	122	113	10	93	11	110	16	6	42.5	0	9
	148	138	16	93	11	110	16	7	42.5	0	12
	169	159	16	93	11	110	16	7	42.5	0	12
	191	191	16	93	11	110	16	7	42.5	0	12
	153	75	16	93	11	110	16	7	42.5	0	12
	179	75	16	93	11	110	16	7	42.5	0	12
	182	182	16	93	11	110	16	7	42.5	0	12
	213	75	16	93	11	110	16	7	42.5	0	12
	245	75	16	93	11	110	16	7	42.5	0	12
	199	199	25	100	11	118	16	7	46.0	0	12
	229	229	16	93	11	110	16	7	42.5	0	12
	229	229	25	100	11	118	16	7	46.0	0	12
	271	271	16	93	11	110	16	7	42.5	0	12
3526	271	82	25	100	11	118	16	7	46.0	0	12
	310	75	16	93	11	110	16	7	42.5	0	12
	91	82	25	100	11	118	16	7	46.0	0	12
	111	82	25	100	11	118	16	7	46.0	0	12
	131	82	25	100	11	118	16	7	46.0	0	12
	105	82	25	100	11	118	16	7	46.0	5	22
	130	82	25	100	11	118	16	7	46.0	5	22
	148	75	16	93	11	110	16	7	42.5	5	22
	120	82	25	100	11	118	16	7	46.0	5	22
	150	82	25	100	11	118	16	7	46.0	5	22
	135	82	25	100	11	118	16	7	46.0	5	22
	170	82	25	100	11	118	16	7	46.0	5	22
	149	82	25	100	11	118	16	7	46.0	5	22

LA *: Additional nut length at each end when using combination wipers

Positioning ball screws 16 - 125 mm

NOMINAL DIAMETER 60 – 63 mm

Double nut, 2-point contact

Execution grade P0 – P5



■ **Series 1516:**
DIN standard flanged nut
with UNILOCK preload



■ **Series 3526:**
UltraSpeed nut with flange, dual start,
pitch offset preload

HIGH
ETA⁺
PERFORMANCE

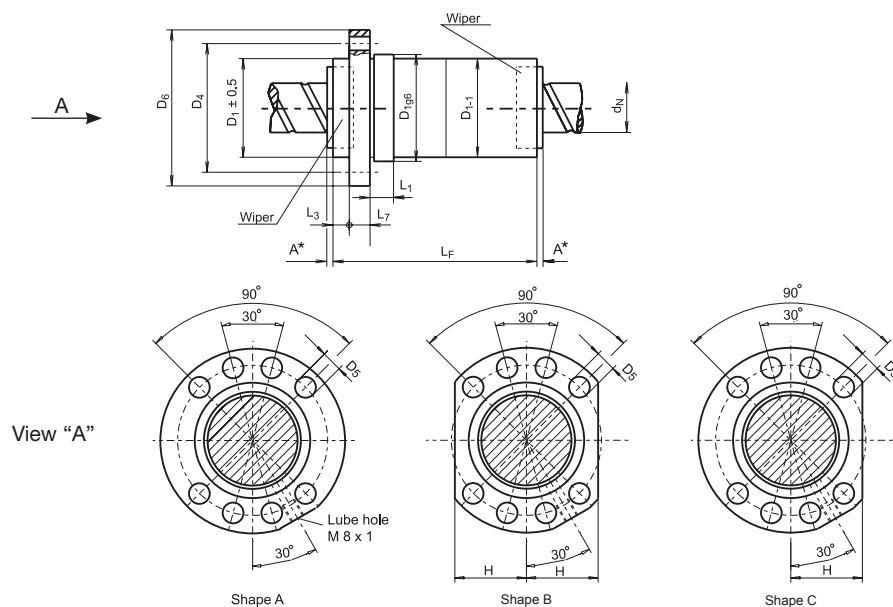
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Technical data											
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i 2x	Ball diameter d _w [mm]	Dyn. load rating C _a [kN]		Stat. load rating C _{0a} [kN]		Stiffness* R _{nu, ar} [N/μm]	
						ETA ⁺	ETA ⁺	ETA ⁺	ETA ⁺	ETA ⁺	ETA ⁺
3526	25.60.9.3	25	60	3 + 3	9.0	107.4	179.0	1160			
	25.60.9.4	25	60	4 + 4	9.0	143.4	250.5	1560			
	30.60.9.3	30	60	3 + 3	9.0	106.8	178.3	1090			
	30.60.9.4	30	60	4 + 4	9.0	142.7	249.6	1460			
	35.60.9.3	35	60	3 + 3	9.0	106.2	177.5	1020			
	40.60.9.2	40	60	2 + 2	9.0	68.0	106.0	620			
	40.60.9.3	40	60	3 + 3	9.0	105.5	176.6	950			
	40.60.9.4	40	60	4 + 4	9.0	140.9	247.2	1260			
3526	20.63.7.5.4	20	63	4 + 4	7.5	97.0	172.5	1500			
	20.63.7.5.5	20	63	5 + 5	7.5	120.4	221.7	1870			
1516	5.63.3.5.4	5	63	4	3.5	27.8	84.3	1260			
	5.63.3.5.5	5	63	5	3.5	33.7	105.4	1560			
	5.63.3.5.6	5	63	6	3.5	39.5	126.5	1870			
	10.63.7.5.3	10	63	3 3 + 3	7.5	59.2	78.8	1000	1110		
	10.63.7.5.4	10	63	4 4 + 4	7.5	75.8	100.7	1310	1460		
	10.63.7.5.5	10	63	5 5 + 5	7.5	91.8	122.0	1620	1800		
	10.63.7.5.6	10	63	6 2 x 6	7.5	107.4	142.8	1930	2150		
	15.63.9.3	15	63	3	9.0	91.1	179.9	1140			
	15.63.9.4	15	63	4 2 x 4	9.0	116.7	150.3	1510	1590		
	20.63.11.3	20	63	3 2 x 3	11.0	115.3	148.3	1070	1120		
	20.63.11.3 N	20	63	2 x 3	11.0	148.3	228.0	1120			
	20.63.11.4	20	63	4 2 x 4	11.0	147.7	189.9	1410	1480		
	20.63.11.5	20	63	5 2 x 5	11.0	179.0	230.1	1740	1830		

* Actual stiffness at preload equal to 0.1 x C_a

N: Alternate sizes acc. to DIN 69051



Dimensions

Flanged nut with wipers both ends

		L _F [mm]	D ₁ g6 [mm]	L ₁ [mm]	D ₄ [mm]	D ₅ [mm]	D ₆ [mm]	L ₇ [mm]	L ₃ [mm]	H [mm]	A [mm]	LA * [mm]
												
3526		106	95	25	115	13.5	135	20	7	50.0	5	22
		131	95	25	115	13.5	135	20	7	50.0	5	22
		121	95	25	115	13.5	135	20	7	50.0	5	22
		151	95	25	115	13.5	135	20	7	50.0	5	22
		135	95	25	115	13.5	135	20	7	50.0	5	22
		110	95	25	115	13.5	135	20	7	50.0	5	22
		150	95	25	115	13.5	135	20	7	50.0	5	22
		190	95	25	115	13.5	135	20	7	50.0	5	22
3526		111	95	25	115	13.5	135	20	7	50.0	0	0
		131	95	25	115	13.5	135	20	7	50.0	0	0
1516	103		90	10	108	11.0	125	18	6	47.5	0	9
	113		90	10	108	11.0	125	18	6	47.5	0	9
	124		90	10	108	11.0	125	18	6	47.5	0	9
	151	141	90	16	108	11.0	125	18	7	47.5	0	12
	172	162	90	16	108	11.0	125	18	7	47.5	0	12
	192	182	90	16	108	11.0	125	18	7	47.5	0	12
	214	214	90	16	108	11.0	125	18	7	47.5	0	12
	206		95	25	115	13.5	135	20	7	50.0	0	12
	239	239	95	25	115	13.5	135	20	7	50.0	0	12
	237	237	95	25	115	13.5	135	20	7	50.0	0	12
		237	105	25	125	13.5	145	20	7	55.0	0	12
	277	277	95	25	115	13.5	135	20	7	50.0	0	12
	319	319	95	25	115	13.5	135	20	7	50.0	0	12

LA *: Additional nut length at each end when using combination wipers

Positioning ball screws 16 - 125 mm

NOMINAL DIAMETER 80 mm

Double nut, 2-point contact

Execution grade P0 – P5



■ Series 1516:

DIN standard flanged nut
with UNILOCK preload



■ Series 3526:

UltraSpeed nut with flange, dual start,
pitch offset preload

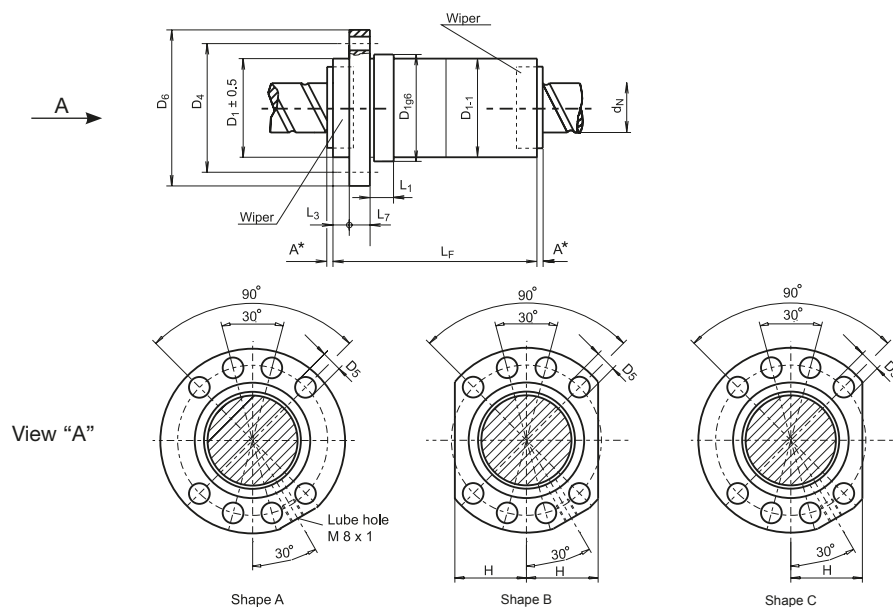
HIGH
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Technical data												
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i 2x		Ball diameter d _w [mm]	Dyn. load rating C _a [kN]		Stat. load rating C _{0a} [kN]		Stiffness* R _{nu, ar} [N/μm]	
1516	5.80.3.5.3	5	80	3		3.5	23.9		81.2		1080	
	5.80.3.5.4	5	80	4		3.5	30.6		108.2		1430	
	5.80.3.5.5	5	80	5		3.5	37.1		135.3		1770	
	5.80.3.5.6	5	80	6		3.5	43.4		162.4		2110	
	10.80.7.5.3	10	80	3	3 + 3	7.5	68.2	91.4	164.3	178.6	1230	1370
	10.80.7.5.4	10	80	4	2 x 4	7.5	87.3	117.1	219.1	238.1	1620	1810
	10.80.7.5.5	10	80	5	2 x 5	7.5	105.8	141.8	273.8	297.6	2000	2240
	10.80.7.5.6	10	80	6	2 x 6	7.5	123.8	165.9	328.6	357.1	2390	2670
	15.80.11.3	15	80	3		11.0	134.4		283.9		1490	
	15.80.11.4	15	80	4		11.0	172.2		378.5		1960	
	15.80.11.5	15	80	5	2 x 5	11.0	208.6	268.8	473.1	515.0	2430	2570
	15.80.11.6	15	80	6		11.0	244.0		567.7		2890	
	20.80.11.3	20	80	3		11.0	134.2		283.5		1440	
	20.80.11.4	20	80	4	2 x 4	11.0	171.9	221.5	377.9	411.5	1900	2000
	20.80.11.5	20	80	5	2 x 5	11.0	208.2	268.3	472.4	514.3	2350	2480
	20.80.11.6	20	80	6	2 x 6	11.0	243.6	313.9	566.9	617.2	2800	2950
3526	30.80.11.3	30	80		3 + 3	11.0		161.4		294.6		1560
	30.80.11.4	30	80		4 + 4	11.0		215.6		412.4		2090
	30.80.11.5	30	80		5 + 5	11.0		267.6		530.2		2600
	40.80.11.2	40	80		2 + 2	11.0		103.3		175.8		940
	40.80.11.3	40	80		3 + 3	11.0		160.3		293.0		1420
	40.80.11.4	40	80		4 + 4	11.0		214.1		410.2		1900

* Actual stiffness at preload equal to 0.1 x C_a



Dimensions

Flanged nut with wipers both ends

	L _F [mm]		D _{1 g6} [mm]	L ₁ [mm]	D ₄ [mm]	D ₅ [mm]	D ₆ [mm]	L ₇ [mm]	L ₃ [mm]	H [mm]	A [mm]	LA * [mm]
1516	94		105	16	125	13.5	145	20	7	55.0	0	9
	104		105	16	125	13.5	145	20	7	55.0	0	9
	114		105	16	125	13.5	145	20	7	55.0	0	9
	127		105	16	125	13.5	145	20	7	55.0	0	9
	153	143	105	16	125	13.5	145	20	7	55.0	0	12
	174	174	105	16	125	13.5	145	20	7	55.0	0	12
	194	194	105	16	125	13.5	145	20	7	55.0	0	12
	215	215	105	16	125	13.5	145	20	7	55.0	0	12
	211		125	25	145	13.5	165	25	7	65.0	0	12
	243		125	25	145	13.5	165	25	7	65.0	0	12
	274	274	125	25	145	13.5	165	25	7	65.0	0	12
	304		125	25	145	13.5	165	25	7	65.0	0	12
	243		125	25	145	13.5	165	25	7	65.0	0	12
	284	284	125	25	145	13.5	165	25	7	65.0	0	12
	346	346	125	25	145	13.5	165	25	7	65.0	0	12
	386	386	125	25	145	13.5	165	25	7	65.0	0	12
3526		124	125	25	145	13.5	165	25	7	65.0	5	22
		154	125	25	145	13.5	165	25	7	65.0	5	22
		184	125	25	145	13.5	165	25	7	65.0	5	22
		113	125	25	145	13.5	165	25	7	65.0	5	24
		153	125	25	145	13.5	165	25	7	65.0	5	24
		193	125	25	145	13.5	165	25	7	65.0	5	24

LA *: Additional nut length at each end when using combination wipers

Positioning ball screws 16 - 125 mm

NOMINAL DIAMETER 100 – 125 mm

Double nut, 2-point contact

Execution grade P0 – P5



■ **Series 1516:**
DIN standard flanged nut
with UNILOCK preload

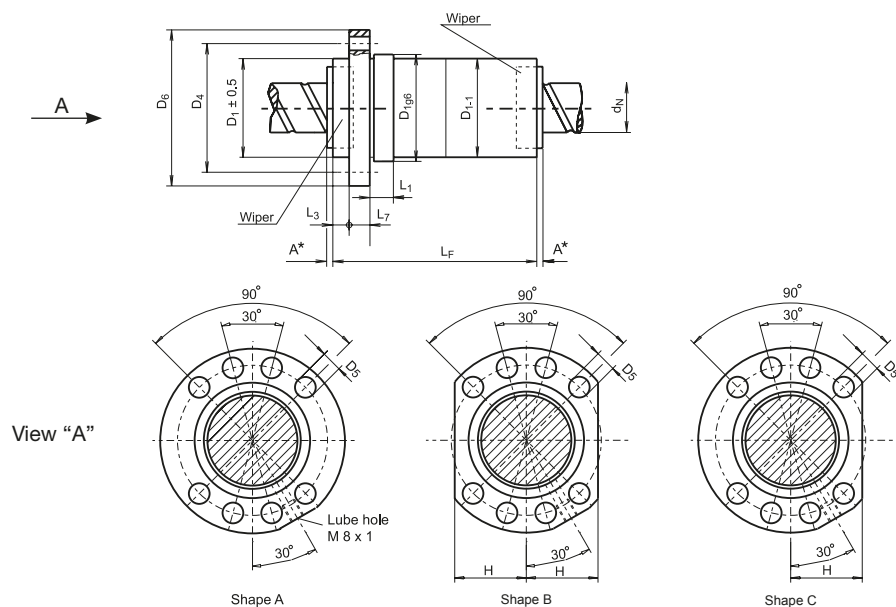


■ **Series 3526:**
UltraSpeed nut with flange, dual start,
pitch offset preload



Technical data											
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i 2x	ETA+	Ball diameter d _w [mm]	Dyn. load rating C _a [kN]	ETA+	Stat. load rating C _{0a} [kN]	ETA+	Stiffness* R _{nu, ar} [N/μm]
1516	10.100.7.5.3	10	100	3		7.5	75.0		208.2		1410
	10.100.7.5.4	10	100	4		7.5	96.0		277.6		1860
	10.100.7.5.5	10	100	5		7.5	116.3		347.0		2300
	10.100.7.5.6	10	100	6		7.5	136.1		416.4		2740
	15.100.11.3	15	100	3		11.0	152.5		373.2		1860
	15.100.11.4	15	100	4		11.0	195.3		497.6		2450
	15.100.11.5	15	100	5		11.0	236.7		622.0		3040
	15.100.11.6	15	100	6		11.0	276.8		746.4		3610
	20.100.11.3	20	100	3		11.0	152.4		372.9		1840
	20.100.11.4	20	100	4		11.0	195.1		497.1		2420
	20.100.11.5	20	100	5		11.0	236.4		621.4		3000
	20.100.11.6	20	100	6		11.0	276.5		745.7		3560
3526	30.100.11.4	30	100		4 + 4	11.0		235.4		508.2	2570
	30.100.11.5	30	100		5 + 5	11.0		292.2		653.4	3210
	30.100.11.6	30	100		6 + 6	11.0		347.3		798.6	3840
	40.100.11.2	40	100		2 + 2	11.0		113.1		217.0	1190
	40.100.11.3	40	100		3 + 3	11.0		175.5		361.7	1680
1516	10.125.7.5.4	10	125	4		7.5	105.1		350.8		2060
	20.125.12.7.6	20	125	6		12.7	369.5		1074.7		4260
	20.125.12.7.8	20	125	8		12.7	473.2		1433.0		5620

* Actual stiffness at preload equal to 0.1 x C_a



Dimensions

Flanged nut with wipers both ends

	L _F [mm]	ETA	D ₁ g6 [mm]	L ₁ [mm]	D ₄ [mm]	D ₅ [mm]	D ₆ [mm]	L ₇ [mm]	L ₃ [mm]	H [mm]	A [mm]	LA * [mm]
1516	154		125	16	145	13.5	165	22	7	65.0	0	12
	175		125	16	145	13.5	165	22	7	65.0	0	12
	195		125	16	145	13.5	165	22	7	65.0	0	12
	216		125	16	145	13.5	165	22	7	65.0	0	12
	217		150	25	176	17.5	202	30	7	77.5	0	12
	249		150	25	176	17.5	202	30	7	77.5	0	12
	279		150	25	176	17.5	202	30	7	77.5	0	12
	310		150	25	176	17.5	202	30	7	77.5	0	12
	247		150	25	176	17.5	202	30	7	77.5	0	12
	288		150	25	176	17.5	202	30	7	77.5	0	12
	329		150	25	176	17.5	202	30	7	77.5	0	12
	396		150	25	176	17.5	202	30	7	77.5	0	12
3526		155	150	25	176	17.5	202	30	7	77.5	5	22
		185	150	25	176	17.5	202	30	7	77.5	5	22
		215	150	25	176	17.5	202	30	7	77.5	5	22
		128	150	25	176	17.5	202	30	7	77.5	5	22
		168	150	25	176	17.5	202	30	7	77.5	5	22
1516	239		150	10	176	17.5	202	25	7	77.5	0	12
	397		170	25	196	17.5	222	30	7	87.5	0	12
	484		170	25	196	17.5	222	30	7	87.5	0	12

LA *: Additional nut length at each end when using combination wipers

NOMINAL DIAMETER 16 – 20 mm

Single nut with backlash
Execution grade T5 – T10



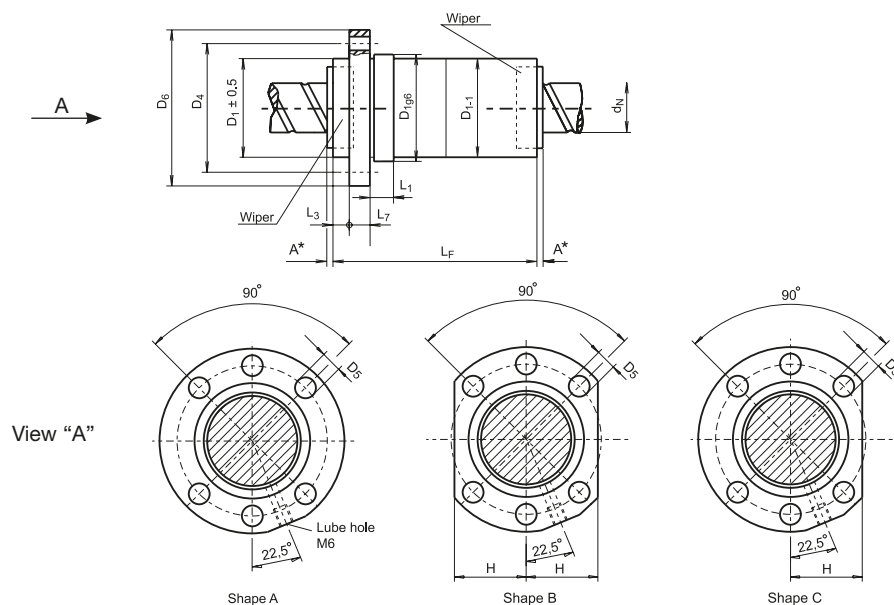
■ **Series 1436:**
DIN standard flanged nut



■ **Series 2446:**
End cap nut with flange, dual start

	Technical data							
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i	Ball diameter d _W [mm]	Dyn. load rating* C _a [kN]	Stat. load rating* C _{0a} [kN]	Axial play [mm]
1436	2.16.1.5.3	2	16	3	1.5	2.9	4.9	0.02
	2.16.1.5.4	2	16	4	1.5	3.8	6.5	0.02
	5.16.3.5.3	5	16	3	3.5	10.1	12.0	0.04
	5.16.3.5.4	5	16	4	3.5	12.9	16.0	0.04
2446	10.16.3.5.6	10	16	3 + 3	3.5	19.6	27.7	0.04
	10.16.3.5.8	10	16	4 + 4	3.5	25.6	37.7	0.04
	10.16.3.5.10	10	16	5 + 5	3.5	31.4	47.8	0.04
1436	2.20.1.5.3	2	20	3	1.5	3.2	6.2	0.02
	2.20.1.5.4	2	20	4	1.5	4.1	8.2	0.02
	5.20.3.5.3	5	20	3	3.5	12.1	16.7	0.04
	5.20.3.5.4	5	20	4	3.5	15.5	22.3	0.04
2446	5.20.3.5.5	5	20	5	3.5	18.8	27.9	0.04
	5.20.3.5.6	5	20	5	3.5	22.0	33.5	0.04
	10.20.3.5.6	10	20	3 + 3	3.5	22.8	36.5	0.04
	10.20.3.5.10	10	20	5 + 5	3.5	36.4	63.0	0.04
	20.20.3.5.4	20	20	2 + 2	3.5	14.7	22.4	0.04
	20.20.3.5.6	20	20	3 + 3	3.5	21.7	35.2	0.04

* The load ratings listed here apply to accuracy class T5.
Use factor 0.9 for T7 and factor 0.7 for T10 in order to reduce load ratings.



Dimensions

Flanged nut with wipers both ends

	L_F [mm]	D_1 g6 [mm]	L_1 [mm]	D_4 [mm]	D_5 [mm]	D_6 [mm]	L_7 [mm]	L_3 [mm]	H [mm]	A [mm]	LA^* [mm]
1436	39	28	10	38	5.5	48	10	6	20	0	9
	43	28	10	38	5.5	48	10	6	20	0	9
	54	28	10	38	5.5	48	10	6	20	0	9
	59	28	10	38	5.5	48	10	6	20	0	9
2446	44	32	16	42	5.5	52	10	12	20	0	-
	54	32	16	42	5.5	52	10	12	20	0	-
	64	32	16	42	5.5	52	10	12	20	0	-
1436	48	36	10	47	6.6	58	10	6	22	0	9
	52	36	10	47	6.6	58	10	6	22	0	9
	55	36	10	47	6.6	58	10	6	22	0	9
	60	36	10	47	6.6	58	10	6	22	0	9
2446	61	36	10	47	6.6	58	10	6	22	0	9
	66	36	10	47	6.6	58	10	6	22	0	9
	49	36	16	47	6.6	58	10	7	22	0	-
	69	36	16	47	6.6	58	10	7	22	0	-
	57	36	16	47	6.6	58	10	7	22	0	-
	77	36	16	47	6.6	58	10	7	22	0	-

LA *: Additional nut length at each end when using combination wipers

NOMINAL DIAMETER 25 – 32 mm

Single nut with backlash

Execution grade T5 – T10



■ **Series 1436:**
DIN standard flanged nut



■ **Series 2446:**
End cap nut with flange, dual start

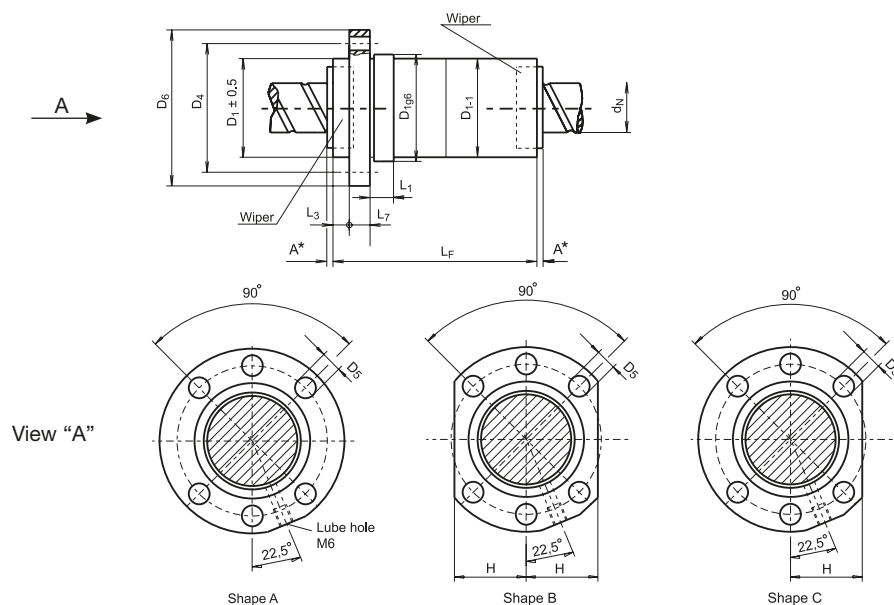


■ **Series 3446:**
UltraSpeed nut with flange, dual start

	Technical data							
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i	Ball diameter d _W [mm]	Dyn. load rating* C _a [kN]	Stat. load rating* C _{0a} [kN]	Axial play [mm]
1436	5.25.3.5.3	5	25	3	3.5	13.7	21.5	0.04
	5.25.3.5.4	5	25	4	3.5	17.5	28.7	0.04
	5.25.3.5.5	5	25	5	3.5	21.2	35.9	0.04
	5.25.3.5.6	5	25	6	3.5	24.8	43.0	0.04
2446	10.25.3.5.4	10	25	2 + 2	3.5	17.1	28.9	0.04
	10.25.3.5.6	10	25	3 + 3	3.5	25.2	45.4	0.04
	10.25.3.5.10	10	25	5 + 5	3.5	40.3	78.4	0.04
	20.25.3.5.4	20	25	2 + 2	3.5	17.1	29.5	0.04
	20.25.3.5.6	20	25	3 + 3	3.5	25.2	46.4	0.04
	25.25.3.5.4	25	25	2 + 2	3.5	16.7	29.0	0.04
1436	5.32.3.5.3	5	32	3	3.5	16.0	29.8	0.04
	5.32.3.5.4	5	32	4	3.5	20.4	39.8	0.04
	5.32.3.5.5	5	32	5	3.5	24.8	49.7	0.04
	5.32.3.5.6	5	32	6	3.5	29.0	59.6	0.04
	10.32.6.3	10	32	3	6.0	30.8	45.6	0.06
	10.32.6.4	10	32	4	6.0	39.4	60.8	0.06
	10.32.6.5	10	32	5	6.0	47.8	76.0	0.06
3446	20.32.6.4	20	32	2 + 2	6.0	39.3	63.6	0.06
	20.32.6.6	20	32	3 + 3	6.0	57.9	100.0	0.06
	20.32.6.8	20	32	4 + 4	6.0	75.6	136.4	0.06
	32.32.6.2	32	32	1 + 1	6.0	18.2	26.5	0.06

* The load ratings listed here apply to accuracy class T5.

Use factor 0.9 for T7 and factor 0.7 for T10 in order to reduce load ratings.



Dimensions

Flanged nut with wipers both ends

	L _F [mm]	D ₁ g6 [mm]	L ₁ [mm]	D ₄ [mm]	D ₅ [mm]	D ₆ [mm]	L ₇ [mm]	L ₃ [mm]	H [mm]	A [mm]	LA * [mm]
1436	55	40	10	51	6.6	62	10	6	24	0	9
	60	40	10	51	6.6	62	10	6	24	0	9
	66	40	10	51	6.6	62	10	6	24	0	9
	71	40	10	51	6.6	62	10	6	24	0	9
2446	39	40	16	51	6.6	62	10	7	24	0	-
	49	40	16	51	6.6	62	10	7	24	0	-
	69	40	16	51	6.6	62	10	7	24	0	-
	57	40	16	51	6.6	62	10	7	24	0	-
	77	40	16	51	6.6	62	10	7	24	0	-
	66	40	16	51	6.6	62	10	7	24	5	-
1436	57	50	10	65	9.0	80	12	6	31	0	9
	62	50	10	65	9.0	80	12	6	31	0	9
	67	50	10	65	9.0	80	12	6	31	0	9
	73	50	10	65	9.0	80	12	6	31	0	9
3446	84	50	16	65	9.0	80	12	7	31	0	12
	95	50	16	65	9.0	80	12	7	31	0	12
	107	50	16	65	9.0	80	12	7	31	0	12
	68	56	20	71	9.0	86	14	7	32.5	0	12
3446	88	56	20	71	9.0	86	14	7	32.5	0	12
	108	56	20	71	9.0	86	14	7	32.5	0	12
	60	56	20	71	9.0	86	14	7	32.5	5	12

LA *: Additional nut length at each end when using combination wipers

NOMINAL DIAMETER 40 – 63 mm

Single nut with backlash

Execution grade T5 – T10



■ **Series 1436:**
DIN standard flanged nut



■ **Series 2446:**
End cap nut with flange, dual start



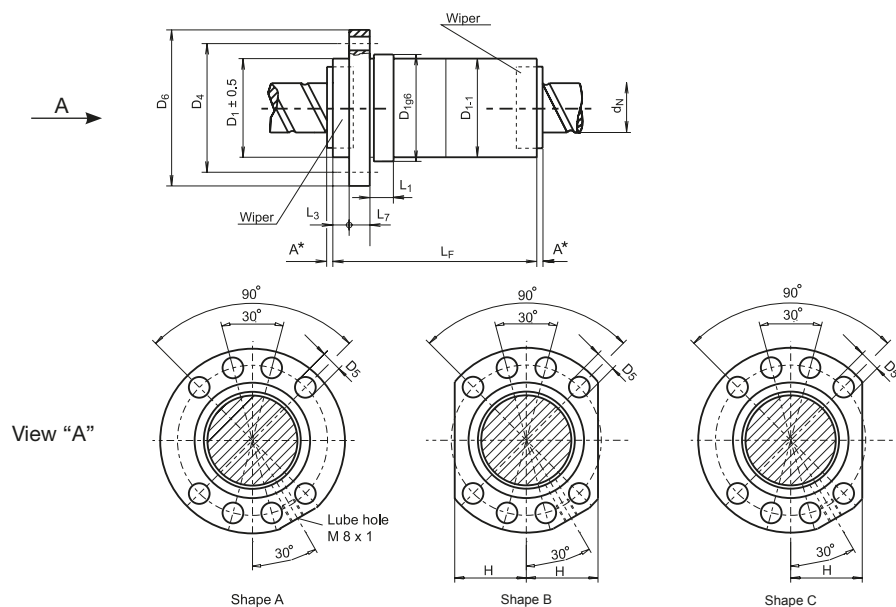
■ **Series 3446:**
UltraSpeed nut with flange, dual start

	Technical data							
	Nut type	Lead P [mm]	Nominal diameter d _N [mm]	No. of circuits i	Ball diameter d _W [mm]	Dyn. load rating* C _a [kN]	Stat. load rating* C _{0a} [kN]	Axial play [mm]
1436	5.40.3.5.3	5	40	3	3.5	17.7	38.2	0.04
	5.40.3.5.4	5	40	4	3.5	22.7	50.9	0.04
	5.40.3.5.5	5	40	5	3.5	27.5	63.6	0.04
	5.40.3.5.6	5	40	6	3.5	32.1	76.4	0.04
	10.40.7.5.3	10	40	3	7.5	46.1	71.3	0.08
	10.40.7.5.4	10	40	4	7.5	59.0	95.1	0.08
3446	20.40.6.4	20	40	2 + 2	6	44.0	80.4	0.06
	20.40.6.6	20	40	3 + 3	6	64.9	126.3	0.06
	20.40.6.8	20	40	4 + 4	6	84.7	172.2	0.06
	20.40.6.10	20	40	5 + 5	6	103.8	218.1	0.06
	40.40.7.5.4 N	40	40	2 + 2	7.5	56.5	96.6	0.06
1436	10.50.7.5.3	10	50	3	7.5	52.7	93.2	0.08
	10.50.7.5.4	10	50	4	7.5	67.4	124.3	0.08
	10.50.7.5.5	10	50	5	7.5	81.7	155.4	0.08
1436	10.63.7.5.3	10	63	3	7.5	59.2	120.7	0.08
	10.63.7.5.4	10	63	4	7.5	75.8	160.9	0.08
	10.63.7.5.5	10	63	5	7.5	91.8	201.1	0.08
	10.63.7.5.6	10	63	6	7.5	107.4	241.3	0.08
3446	20.63.7.5.6	20	63	3 + 3	7.5	107.6	249.1	0.08

* The load ratings listed here apply to accuracy class T5.

Use factor 0.9 for T7 and factor 0.7 for T10 in order to reduce load ratings.

N: Alternate sizes acc. to DIN 69051



Dimensions

Flanged nut with wipers both ends

	L _F [mm]	D ₁ g6 [mm]	L ₁ [mm]	D ₄ [mm]	D ₅ [mm]	D ₆ [mm]	L ₇ [mm]	L ₃ [mm]	H [mm]	A [mm]	LA * [mm]
1436	59	63	10	78	9	93	14	6	35	0	9
	64	63	10	78	9	93	14	6	35	0	9
	69	63	10	78	9	93	14	6	35	0	9
	75	63	10	78	9	93	14	6	35	0	9
3446	88	63	16	78	9	93	14	7	35	0	12
	97	63	16	78	9	93	14	7	35	0	12
	69	63	20	78	9	93	14	7	35	0	12
	89	63	20	78	9	93	14	7	35	0	12
1436	109	63	20	78	9	93	14	7	35	0	12
	129	63	20	78	9	93	14	7	35	0	12
	107	70	25	85	9	100	14	21	37.5	0	12
	117	70	25	85	9	100	14	21	37.5	0	12
1436	88	75	16	93	11	110	16	7	42.5	0	12
	99	75	16	93	11	110	16	7	42.5	0	12
	111	75	16	93	11	110	16	7	42.5	0	12
	123	75	16	93	11	110	16	7	42.5	0	12
1436	91	90	16	108	11	125	18	7	47.5	0	12
	102	90	16	108	11	125	18	7	47.5	0	12
	112	90	16	108	11	125	18	7	47.5	0	12
	124	90	16	108	11	125	18	7	47.5	0	12
3446	91	95	25	115	13.5	135	20	7	50	0	12

LA *: Additional nut length at each end when using combination wipers

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