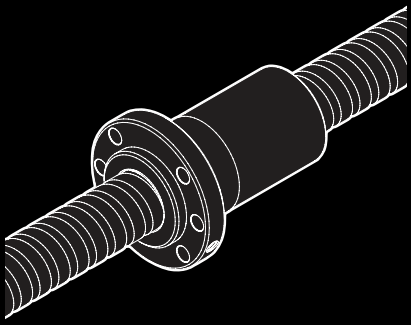


DIN Standard Compliant Ball Screw
Models EBA, EBB, EBC, EPA, EPB and EPC

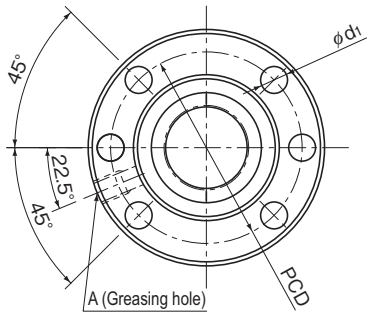
Ball Screw

B Product Specifications

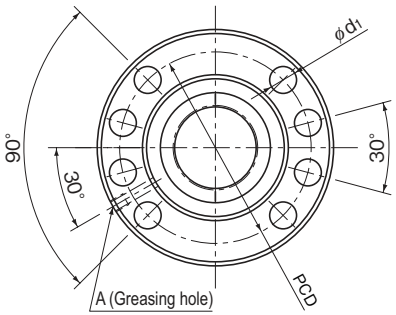
A Technical Descriptions of the Products (Separate)

* Please see the separate "A Technical Descriptions of the Products".

Model EBA (Dimensional Table of Model EBA Over-ball preloaded type or non-preloaded type)



Hole type 1
(Model EBA1605 to 3210)



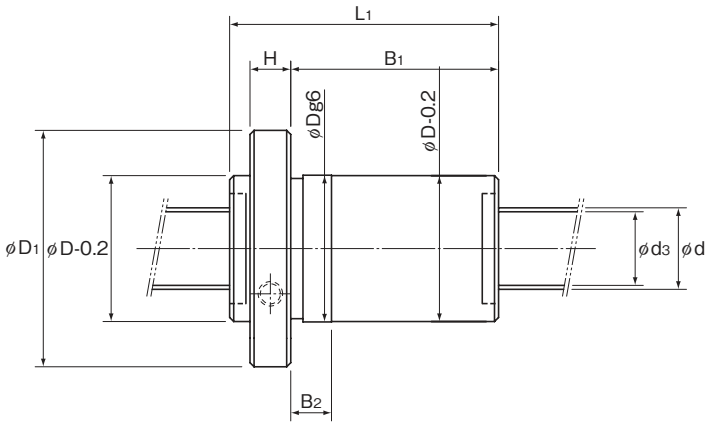
Hole type 2
(Model EBA4005 to 6320)

Model No.	Screw shaft outer diameter d	Lead ℓ	Ball diameter Da	Ball center-to-center diameter dp	Screw shaft outer diameter d3	No. of loaded circuits Rows x turns	Basic load rating Ca kN	Basic load rating C0a kN	Rigidity K N/μm
EBA 1605-4	16	5	3.175	16.75	13.1	4×1	11.9	17.4	210
EBA 2005-3	20	5	3.175	20.75	17.1	3×1	10.6	17.3	200
EBA 2505-3	25	5	3.175	25.75	22.1	3×1	12.1	22.6	250
EBA 2510-3	25	10	3.969	26	21.6	3×1	15.9	27	250
EBA 2510-4	25	10	3.969	26	21.6	4×1	20.9	37.6	330
EBA 3205-3	32	5	3.175	32.75	29.2	3×1	13.9	30.2	300
EBA 3205-4	32	5	3.175	32.75	29.2	4×1	17.8	40.3	400
EBA 3205-6	32	5	3.175	32.75	29.2	6×1	25.1	60.4	600
EBA 3210-3	32	10	6.35	33.75	26.4	3×1	32.1	52.2	300
EBA 3210-4	32	10	6.35	33.75	26.4	4×1	41.3	69.7	390
EBA 4005-6	40	5	3.175	40.75	37.1	6×1	26.6	77.5	716
EBA 4010-3	40	10	6.35	41.75	34.4	3×1	37.3	69.3	380
EBA 4010-4	40	10	6.35	41.75	34.4	4×1	47.6	92.4	500
EBA 4020-3	40	20	6.35	41.75	34.7	3×1	36.8	69.3	750
EBA 5010-4	50	10	6.35	51.75	44.4	4×1	54.3	120.5	610
EBA 5020-3	50	20	7.938	52.25	43.6	3×1	55.3	108.8	470
EBA 6310-6	63	10	6.35	64.75	57.7	6×1	87.9	242.1	1140
EBA 6320-3	63	20	9.525	65.7	65.7	3×1	104.4	229.3	1470

Model number coding

EB A 20 05 -6 QZ RR G0 +650L C3

- EB: Nut type: over-ball preloaded type or non-preloaded type
- A: Flange shape: A: round; B: double chamfered; C: single chamfered
- 20: Shaft diameter
- 05: Lead (Number of turns)
- -6: With QZ Lubricator (no symbol without QZ Lubricator)
- QZ: Seal symbol (RR : Labyrinth seal, WW : Wiper ring.)
- RR: Clearance symbol
- G0: Accuracy symbol
- +650L: Ball screw shaft length (mm)
- C3: Accuracy symbol



Unit: mm

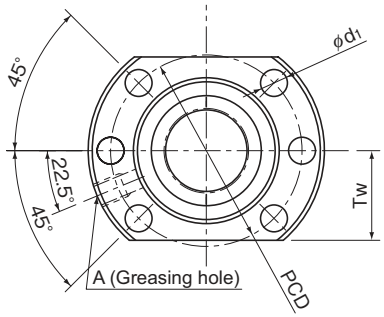
	Nut dimensions										
	Outer diameter D	Flange diameter D_1	Overall length L_1	H	B_1	B_2	Hole type	PCD	d_1	Tw	Greasing hole A
	28	48	55	10	40	12	1	38	5.5	20	M6×1
	36	58	50	10	35	12	1	47	6.6	22	M6×1
	40	62	50	10	35	12	1	51	6.6	24	M6×1
	40	62	80	10	65	18	1	51	6.6	24	M6×1
	40	62	85	10	70	18	1	51	6.6	24	M6×1
	50	80	52	12	35	12	1	65	9	31	M6×1
	50	80	57	12	40	12	1	65	9	31	M6×1
	50	80	67	12	50	12	1	65	9	31	M6×1
	50	80	82	12	65	18	1	65	9	31	M6×1
	50	80	94	12	77	18	1	65	9	31	M6×1
	63	93	70	14	51	12	2	78	9	35	M8×1
	63	93	84	14	65	18	2	78	9	35	M8×1
	63	93	94	14	75	18	2	78	9	35	M8×1
	63	93	129	14	105	25	2	78	9	35	M8×1
	75	110	96	16	75	18	2	93	11	42.5	M8×1
	75	110	134	16	108	27	2	93	11	42.5	M8×1
	90	125	119	18	96	18	2	108	11	47.5	M8×1
	95	135	136	18	108	27	2	115	13.5	50	M8×1

Note) The rigidity values in the table represent spring constants each obtained from the load and the Elastic Deformation finish when providing an axial load 24% of the basic dynamic load rating (Ca).
These values do not include the rigidity of the components related to mounting the nut. Therefore, it is normally appropriate to regard roughly 80% of the value in the table as the actual value.
If the axial load (Fa) is not 0.24 Ca, the rigidity value (K_N) is obtained from the following equation.

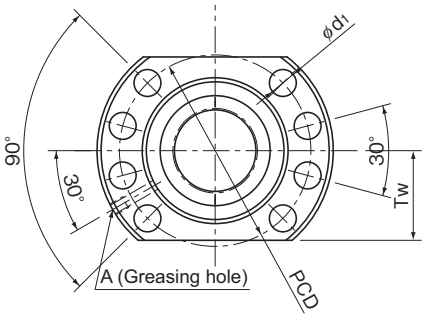
$$K_N = K\left(\frac{Fa}{0.24Ca}\right)^{\frac{1}{3}}$$

K: Rigidity value in the dimensional table.

Model EBB (Dimensional Table of Model EBB Over-ball preloaded type or non-preloaded type)



Hole type 1
(Model EBB1605 to 3210)



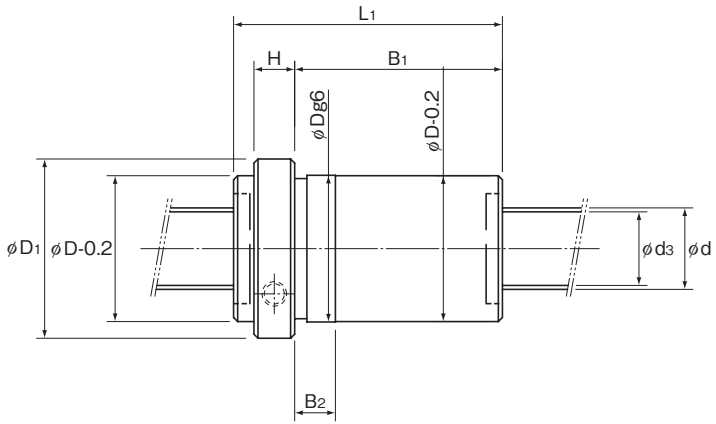
Hole type 2
(Model EBB4005 to 6320)

Model No.	Screw shaft outer diameter	Lead	Ball diameter	Ball center-to-center diameter	Screw shaft outer diameter	No. of loaded circuits	Basic load rating		Rigidity
							Ca	C0a	K
	d	ℓ	Da	dp	d3	Rows x turns	kN	kN	N/μm
EBB 1605-4	16	5	3.175	16.75	13.1	4×1	11.9	17.4	210
EBB 2005-3	20	5	3.175	20.75	17.1	3×1	10.6	17.3	200
EBB 2505-3	25	5	3.175	25.75	22.1	3×1	12.1	22.6	250
EBB 2510-3	25	10	3.969	26	21.6	3×1	15.9	27	250
EBB 2510-4	25	10	3.969	26	21.6	4×1	20.9	37.6	330
EBB 3205-3	32	5	3.175	32.75	29.2	3×1	13.9	30.2	300
EBB 3205-4	32	5	3.175	32.75	29.2	4×1	17.8	40.3	400
EBB 3205-6	32	5	3.175	32.75	29.2	6×1	25.1	60.4	600
EBB 3210-3	32	10	6.35	33.75	26.4	3×1	32.1	52.2	300
EBB 3210-4	32	10	6.35	33.75	26.4	4×1	41.3	69.7	390
EBB 4005-6	40	5	3.175	40.75	37.1	6×1	26.6	77.5	716
EBB 4010-3	40	10	6.35	41.75	34.4	3×1	37.3	69.3	380
EBB 4010-4	40	10	6.35	41.75	34.4	4×1	47.6	92.4	500
EBB 4020-3	40	20	6.35	41.75	34.7	3×1	36.8	69.3	750
EBB 5010-4	50	10	6.35	51.75	44.4	4×1	54.3	120.5	610
EBB 5020-3	50	20	7.938	52.25	43.6	3×1	55.3	108.8	470
EBB 6310-6	63	10	6.35	64.75	57.7	6×1	87.9	242.1	1140
EBB 6320-3	63	20	9.525	65.7	65.7	3×1	104.4	229.3	1470

Model number coding

EB B 20 05 -6 QZ RR G0 +650L C3

- EB: Nut type: over-ball preloaded type or non-preloaded type
- B: Flange shape: A: round; B: double chamfered; C: single chamfered
- 20: Shaft diameter
- 05: Number of turns
- Lead
- -6: With QZ Lubricator (no symbol without QZ Lubricator)
- QZ
- RR: Seal symbol (RR : Labyrinth seal, WW : Wiper ring.)
- G0: Clearance symbol
- +650L: Ball screw shaft length (mm)
- C3: Accuracy symbol



Unit: mm

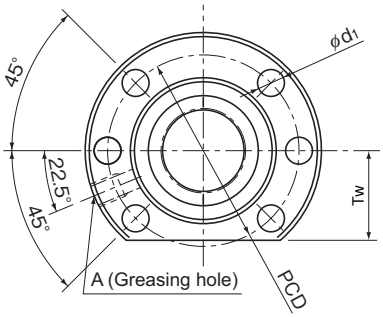
	Nut dimensions										
	Outer diameter D	Flange diameter D_1	Overall length L_1	H	B_1	B_2	Hole type	PCD	d_1	Tw	Greasing hole A
	28	48	55	10	40	12	1	38	5.5	20	M6×1
	36	58	50	10	35	12	1	47	6.6	22	M6×1
	40	62	50	10	35	12	1	51	6.6	24	M6×1
	40	62	80	10	65	18	1	51	6.6	24	M6×1
	40	62	85	10	70	18	1	51	6.6	24	M6×1
	50	80	52	12	35	12	1	65	9	31	M6×1
	50	80	57	12	40	12	1	65	9	31	M6×1
	50	80	67	12	50	12	1	65	9	31	M6×1
	50	80	82	12	65	18	1	65	9	31	M6×1
	50	80	94	12	77	18	1	65	9	31	M6×1
	63	93	70	14	51	12	2	78	9	35	M8×1
	63	93	84	14	65	18	2	78	9	35	M8×1
	63	93	94	14	75	18	2	78	9	35	M8×1
	63	93	129	14	105	25	2	78	9	35	M8×1
	75	110	96	16	75	18	2	93	11	42.5	M8×1
	75	110	134	16	108	27	2	93	11	42.5	M8×1
	90	125	119	18	96	18	2	108	11	47.5	M8×1
	95	135	136	18	108	27	2	115	13.5	50	M8×1

Note) The rigidity values in the table represent spring constants each obtained from the load and the Elastic Deformation finish when providing an axial load 24% of the basic dynamic load rating (Ca).
These values do not include the rigidity of the components related to mounting the nut. Therefore, it is normally appropriate to regard roughly 80% of the value in the table as the actual value.
If the axial load (Fa) is not 0.24 Ca, the rigidity value (K_N) is obtained from the following equation.

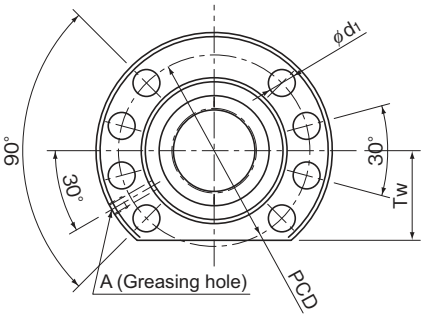
$$K_N = K\left(\frac{Fa}{0.24Ca}\right)^{\frac{1}{3}}$$

K: Rigidity value in the dimensional table.

Model EBC (Dimensional Table of Model EBC Over-ball preloaded type or non-preloaded type)



Hole type 1
(Model EBC1605 to 3210)



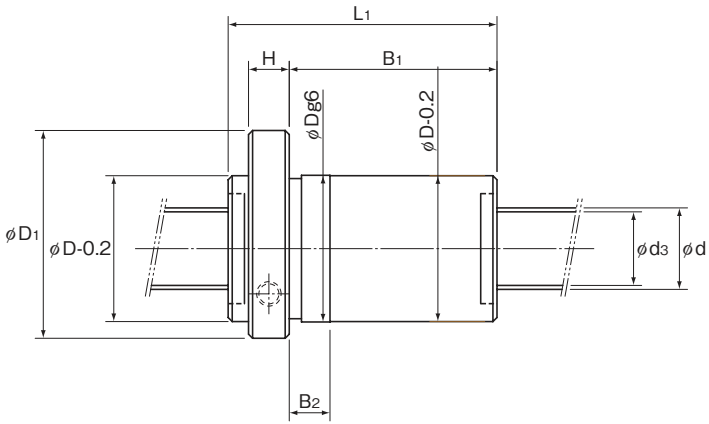
Hole type 2
(Model EBC4005 to 6320)

Model No.	Screw shaft outer diameter d	Lead ℓ	Ball diameter Da	Ball center-to-center diameter dp	Screw shaft outer diameter d3	No. of loaded circuits Rows x turns	Basic load rating Ca kN	Basic load rating C0a kN	Rigidity K N/μm
EBC 1605-4	16	5	3.175	16.75	13.1	4×1	11.9	17.4	210
EBC 2005-3	20	5	3.175	20.75	17.1	3×1	10.6	17.3	200
EBC 2505-3	25	5	3.175	25.75	22.1	3×1	12.1	22.6	250
EBC 2510-3	25	10	3.969	26	21.6	3×1	15.9	27	250
EBC 2510-4	25	10	3.969	26	21.6	4×1	20.9	37.6	330
EBC 3205-3	32	5	3.175	32.75	29.2	3×1	13.9	30.2	300
EBC 3205-4	32	5	3.175	32.75	29.2	4×1	17.8	40.3	400
EBC 3205-6	32	5	3.175	32.75	29.2	6×1	25.1	60.4	600
EBC 3210-3	32	10	6.35	33.75	26.4	3×1	32.1	52.2	300
EBC 3210-4	32	10	6.35	33.75	26.4	4×1	41.3	69.7	390
EBC 4005-6	40	5	3.175	40.75	37.1	6×1	26.6	77.5	716
EBC 4010-3	40	10	6.35	41.75	34.4	3×1	37.3	69.3	380
EBC 4010-4	40	10	6.35	41.75	34.4	4×1	47.6	92.4	500
EBC 4020-3	40	20	6.35	41.75	34.7	3×1	36.8	69.3	750
EBC 5010-4	50	10	6.35	51.75	44.4	4×1	54.3	120.5	610
EBC 5020-3	50	20	7.938	52.25	43.6	3×1	55.3	108.8	470
EBC 6310-6	63	10	6.35	64.75	57.7	6×1	87.9	242.1	1140
EBC 6320-3	63	20	9.525	65.7	65.7	3×1	104.4	229.3	1470

Model number coding

EB C 20 05 -6 QZ RR G0 +650L C3

- EB: Nut type: over-ball preloaded type or non-preloaded type
- C: Flange shape: A: round; B: double chamfered; C: single chamfered
- 20: Shaft diameter
- 05: Number of turns
- -6: Lead
- QZ: With QZ Lubricator (no symbol without QZ Lubricator)
- RR: Seal symbol (RR : Labyrinth seal, WW : Wiper ring.)
- G0: Clearance symbol
- +650L: Ball screw shaft length (mm)
- C3: Accuracy symbol



Unit: mm

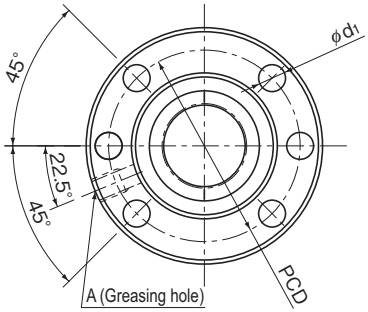
	Nut dimensions										
	Outer diameter D	Flange diameter D_1	Overall length L_1	H	B_1	B_2	Hole type	PCD	d_1	Tw	Greasing hole A
	28	48	55	10	40	12	1	38	5.5	20	M6×1
	36	58	50	10	35	12	1	47	6.6	22	M6×1
	40	62	50	10	35	12	1	51	6.6	24	M6×1
	40	62	80	10	65	18	1	51	6.6	24	M6×1
	40	62	85	10	70	18	1	51	6.6	24	M6×1
	50	80	52	12	35	12	1	65	9	31	M6×1
	50	80	57	12	40	12	1	65	9	31	M6×1
	50	80	67	12	50	12	1	65	9	31	M6×1
	50	80	82	12	65	18	1	65	9	31	M6×1
	50	80	94	12	77	18	1	65	9	31	M6×1
	63	93	70	14	51	12	2	78	9	35	M8×1
	63	93	84	14	65	18	2	78	9	35	M8×1
	63	93	94	14	75	18	2	78	9	35	M8×1
	63	93	129	14	105	25	2	78	9	35	M8×1
	75	110	96	16	75	18	2	93	11	42.5	M8×1
	75	110	134	16	108	27	2	93	11	42.5	M8×1
	90	125	119	18	96	18	2	108	11	47.5	M8×1
	95	135	136	18	108	27	2	115	13.5	50	M8×1

Note) The rigidity values in the table represent spring constants each obtained from the load and the Elastic Deformation finish when providing an axial load 24% of the basic dynamic load rating (Ca).
These values do not include the rigidity of the components related to mounting the nut. Therefore, it is normally appropriate to regard roughly 80% of the value in the table as the actual value.
If the axial load (Fa) is not 0.24 Ca, the rigidity value (K_N) is obtained from the following equation.

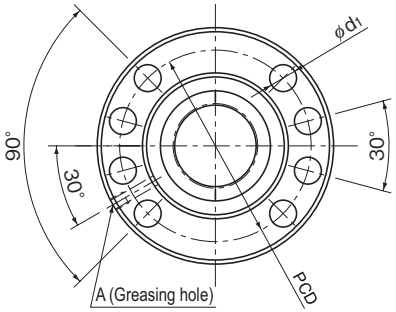
$$K_N = K\left(\frac{Fa}{0.24Ca}\right)^{\frac{1}{3}}$$

K: Rigidity value in the dimensional table.

Model EPA (Offset Preload Type)



Hole type 1
(Model EPA1605 to 3210)



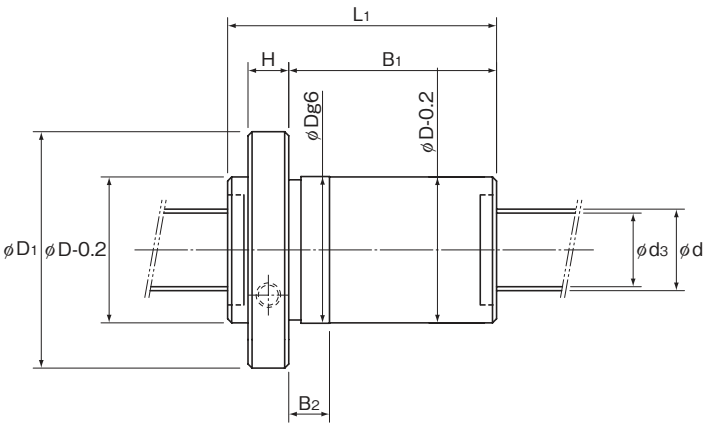
Hole type 2
(Model EPA4005 to 6310)

Model No.	Screw shaft outer diameter d	Lead ℓ	Ball diameter Da	Ball center-to-center diameter dp	Screw shaft outer diameter d_3	No. of loaded circuits Rows x turns	Basic load rating Ca kN	Basic load rating C_0a kN	Rigidity K N/μm
EPA 1605-6	16	5	3.175	16.75	13.1	3×1	9.3	13.1	317
EPA 2005-6	20	5	3.175	20.75	17.1	3×1	10.6	17.3	310
EPA 2505-6	25	5	3.175	25.75	22.1	3×1	12.1	22.6	490
EPA 2510-4	25	10	3.969	26	21.6	2×1	11.3	18	330
EPA 3205-6	32	5	3.175	32.75	29.2	3×1	13.9	30.2	620
EPA 3205-8	32	5	3.175	32.75	29.2	4×1	17.8	40.3	810
EPA 3210-6	32	10	6.35	33.75	26.4	3×1	32.1	52.2	600
EPA 4005-6	40	5	3.175	40.75	37.1	3×1	15.4	38.8	298
EPA 4010-6	40	10	6.35	41.75	34.7	3×1	37.3	69.3	750
EPA 4010-8	40	10	6.35	41.75	34.7	4×1	47.6	92.4	1000
EPA 5010-8	50	10	6.35	51.75	44.4	4×1	54.3	120.5	1230
EPA 6310-8	63	10	6.35	64.75	57.7	4×1	61.9	160.7	1550

Model number coding

EP A 20 05 -6 QZ RR G0 +650L C3

- EP: Nut type: offset preloaded type
- A: Flange shape: A: round; B: double chamfered; C: single chamfered
- 20: Shaft diameter
- 05: Lead
- -6: Number of turns
- QZ: With QZ Lubricator (no symbol without QZ Lubricator)
- RR: Seal symbol (RR : Labyrinth seal, WW : Wiper ring.)
- G0: Clearance symbol
- +650L: Ball screw shaft length (mm)
- C3: Accuracy symbol



Unit: mm

	Nut dimensions										
	Outer diameter D	Flange diameter D_1	Overall length L_1	H	B_1	B_2	Hole type	PCD	d_1	Tw	Greasing hole A
	28	48	65	10	50	12	1	38	5.5	20	M6×1
	36	58	66	10	51	12	1	47	6.6	22	M6×1
	40	62	66	10	51	12	1	51	6.6	24	M6×1
	40	62	85	10	70	18	1	51	6.6	24	M6×1
	50	80	67	12	50	12	1	65	9	31	M6×1
	50	80	78	12	61	12	1	65	9	31	M6×1
	50	80	112	12	95	18	1	65	9	31	M6×1
	63	93	70	14	51	12	2	78	9	35	M8×1
	63	93	114	14	95	18	2	78	9	35	M8×1
	63	93	138	14	119	18	2	78	9	35	M8×1
	75	110	140	16	119	18	2	93	11	42.5	M8×1
	90	125	142	18	119	18	2	108	11	47.5	M8×1

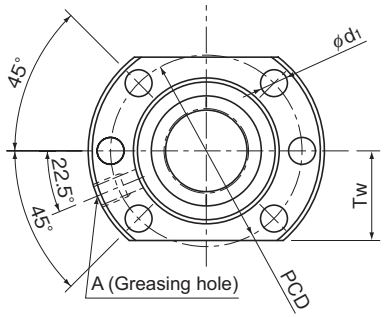
Note) The rigidity values in the table represent spring constants each obtained from the load and the elastic deformation when providing a preload 8% of the basic dynamic load rating (Ca) and applying an axial load three times greater than the preload. These values do not include the rigidity of the components related to mounting the nut. Therefore, it is normally appropriate to regard roughly 80% of the value in the table as the actual value.
If the applied preload (Fa0) is not 0.08 Ca, the rigidity value (K_N) is obtained from the following equation.

$$K_N = K\left(\frac{Fa0}{0.08Ca}\right)^{\frac{1}{3}}$$

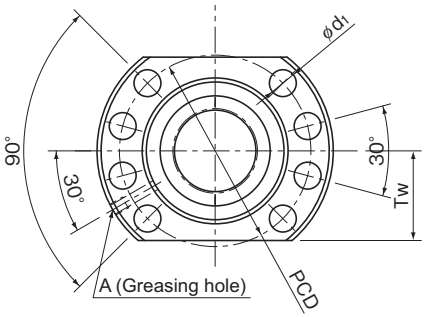
K: Rigidity value in the dimensional table.

Description of Each Option⇒A-837 Dimensions⇒B-817

Model EPB (Offset Preload Type)



Hole type 1
(Model EPB1605 to 3210)



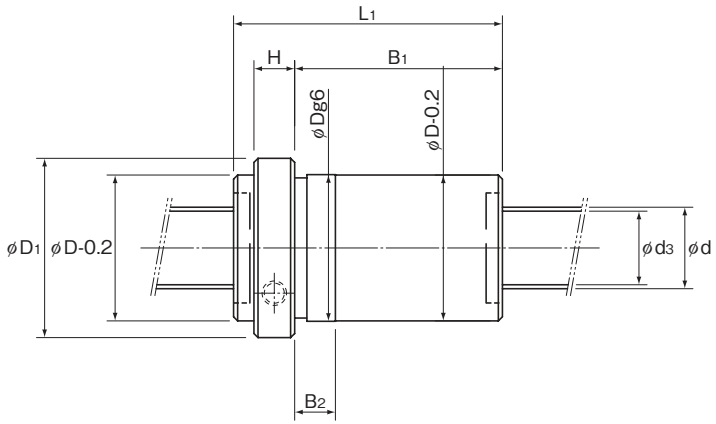
Hole type 2
(Model EPB4005 to 6310)

Model No.	Screw shaft outer diameter d	Lead ℓ	Ball diameter Da	Ball center-to-center diameter dp	Screw shaft outer diameter d_3	No. of loaded circuits Rows x turns	Basic load rating Ca kN	Basic load rating C_0a kN	Rigidity K N/μm
EPB 1605-6	16	5	3.175	16.75	13.1	3×1	9.3	13.1	317
EPB 2005-6	20	5	3.175	20.75	17.1	3×1	10.6	17.3	310
EPB 2505-6	25	5	3.175	25.75	22.1	3×1	12.1	22.6	490
EPB 2510-4	25	10	3.969	26	21.6	2×1	11.3	18	330
EPB 3205-6	32	5	3.175	32.75	29.2	3×1	13.9	30.2	620
EPB 3205-8	32	5	3.175	32.75	29.2	4×1	17.8	40.3	810
EPB 3210-6	32	10	6.35	33.75	26.4	3×1	32.1	52.2	600
EPB 4005-6	40	5	3.175	40.75	37.1	3×1	15.4	38.8	298
EPB 4010-6	40	10	6.35	41.75	34.7	3×1	37.3	69.3	750
EPB 4010-8	40	10	6.35	41.75	34.7	4×1	47.6	92.4	1000
EPB 5010-8	50	10	6.35	51.75	44.4	4×1	54.3	120.5	1230
EPB 6310-8	63	10	6.35	64.75	57.7	4×1	61.9	160.7	1550

Model number coding

EP B 20 05 -6 QZ RR G0 +650L C3

- EP: Nut type: offset preloaded type
- B: Flange shape: A: round; B: double chamfered; C: single chamfered
- 20: Shaft diameter
- 05: Lead
- -6: Number of turns
- QZ: With QZ Lubricator (no symbol without QZ Lubricator)
- RR: Seal symbol (RR : Labyrinth seal, WW : Wiper ring.)
- G0: Clearance symbol
- +650L: Ball screw shaft length (mm)
- C3: Accuracy symbol



Unit: mm

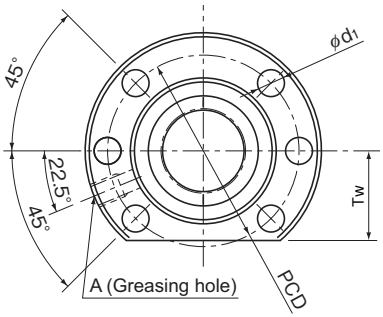
	Nut dimensions										
	Outer diameter D	Flange diameter D_1	Overall length L_1	H	B_1	B_2	Hole type	PCD	d_1	Tw	Greasing hole A
	28	48	65	10	50	12	1	38	5.5	20	M6×1
	36	58	66	10	51	12	1	47	6.6	22	M6×1
	40	62	66	10	51	12	1	51	6.6	24	M6×1
	40	62	85	10	70	18	1	51	6.6	24	M6×1
	50	80	67	12	50	12	1	65	9	31	M6×1
	50	80	78	12	61	12	1	65	9	31	M6×1
	50	80	112	12	95	18	1	65	9	31	M6×1
	63	93	70	14	51	12	2	78	9	35	M8×1
	63	93	114	14	95	18	2	78	9	35	M8×1
	63	93	138	14	119	18	2	78	9	35	M8×1
	75	110	140	16	119	18	2	93	11	42.5	M8×1
	90	125	142	18	119	18	2	108	11	47.5	M8×1

Note) The rigidity values in the table represent spring constants each obtained from the load and the elastic deformation when providing a preload 8% of the basic dynamic load rating (Ca) and applying an axial load three times greater than the preload. These values do not include the rigidity of the components related to mounting the nut. Therefore, it is normally appropriate to regard roughly 80% of the value in the table as the actual value.
If the applied preload (Fa0) is not 0.08 Ca, the rigidity value (K_N) is obtained from the following equation.

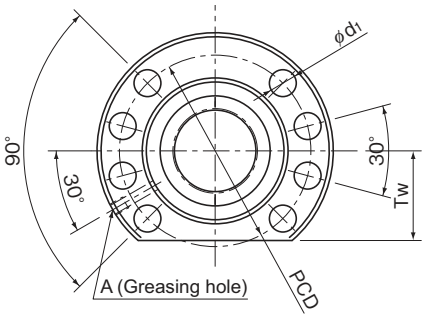
$$K_N = K\left(\frac{Fa0}{0.08Ca}\right)^{\frac{1}{3}}$$

K: Rigidity value in the dimensional table.

Model EPC (Offset Preload Type)



Hole type 1
(Model EPC1605 to 3210)



Hole type 2
(Model EPC4005 to 6310)

Model No.	Screw shaft outer diameter d	Lead ℓ	Ball diameter Da	Ball center-to-center diameter dp	Screw shaft outer diameter d_3	No. of loaded circuits Rows x turns	Basic load rating Ca kN	Basic load rating C_0a kN	Rigidity K N/μm
EPC 1605-6	16	5	3.175	16.75	13.1	3×1	9.3	13.1	317
EPC 2005-6	20	5	3.175	20.75	17.1	3×1	10.6	17.3	310
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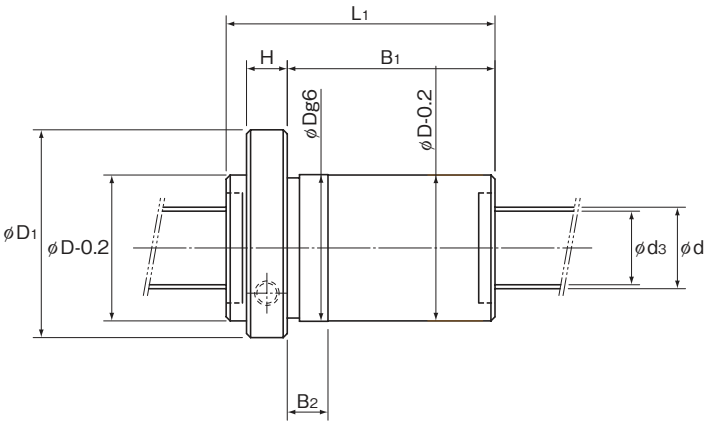
Model number coding

EP C 20 05 -6 QZ RR G0 +650L C3

- EP: Nut type: offset preloaded type
- C: Flange shape: A: round; B: double chamfered; C: single chamfered
- 20: Shaft diameter
- 05: Lead
- -6: Number of turns
- QZ: With QZ Lubricator (no symbol without QZ Lubricator)
- RR: Seal symbol (RR : Labyrinth seal, WW : Wiper ring.)
- G0: Clearance symbol
- +650L: Ball screw shaft length (mm)
- C3: Accuracy symbol



Unit: mm

	Nut dimensions										
	Outer diameter D	Flange diameter D_1	Overall length L_1	H	B_1	B_2	Hole type	PCD	d_1	Tw	Greasing hole A
	28	48	65	10	50	12	1	38	5.5	20	M6×1
	36	58	66	10	51	12	1	47	6.6	22	M6×1
	40	62	66	10	51	12	1	51	6.6	24	M6×1
	40	62	85	10	70	18	1	51	6.6	24	M6×1
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	90	125	142	18	119	18	2	108	11	47.5	M8×1

Note) The rigidity values in the table represent spring constants each obtained from the load and the elastic deformation when providing a preload 8% of the basic dynamic load rating (Ca) and applying an axial load three times greater than the preload. These values do not include the rigidity of the components related to mounting the nut. Therefore, it is normally appropriate to regard roughly 80% of the value in the table as the actual value.
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K: Rigidity value in the dimensional table.