

Type

SBC Precision Rolled Ball Screws are available in a variety of shaft diameters from Ø6mm to Ømm and a variety of Leads from 1mm to 40mm. Screws are available in P5 or T7 or both precision grades and lengths up to 7000mm depending on the particular screw.



STK Precision Rolled Ball Screw



SLK Long Lead Rolled Ball Screw



MBS Miniature Rolled Ball Screw

Ball Screw shaft Model No.

(Unit : mm)

Model No.	Diameter	Lead	Max. Length	Accuracy
RM0601T	06	01	900	T7
RM0801T	08	01	1200	T7
RM0802T	08	02	1200	T7
RM0802.5T	08	02.5	1200	T7
RM1002T	10	02	1200	T7
RM1004T	10	04	1200	T7
RM1204T	12	04	1400	T7
RM1205T	12	05	1400	T7
RM1210T	12	10	3000	T7
RM1520T	15	20	3000	T7
RM1605	15.6	05	3000	P5, T7
RM1610T	16	10	3600	T7
RM1616T	16	16	3600	T7
RM2005	19.6	05	4000	P5, T7
RM2010T	20	10	3000	T7
RM2020	19.6	20	4000	P5, T7
RM2505	24.6	05	5000	P5, T7
RM2510	24.6	10	5000	P5, T7
RM2525	24.6	25	5000	P5, T7
RM3205	31.6	05	6000	P5, T7
RM3210	31.6	10	6000	P5, T7
RM3220T	32	20	6000	T7
RM3232T	32	32	6000	T7
RM4005	39.6	05	6000	P5, T7
RM4010	39.6	10	6000	P5, T7
RM4020	39.6	20	6000	P5, T7
RM4040	39.6	40	6000	P5, T7
RM5010	49.5	10	6000	P5, T7
RM5020	49.5	20	6000	P5, T7
RM5050T	50	50	6000	T7
RM6310	62.5	10	6000	P5, T7
RM8010	79.5	10	7000	T7

※ SBC follows DIN and JIS Standards.

DIN Standard	JIS Standard
P5	C5
T7	C7

Ordering Example

[Nut Only Part Numbers]

32
[1]

20
[2]

SLK
[3]

- S
[4]

[1] Diameter

[2] Lead

[3] Nut Type : STK, SLK

[4] Preload : S (Clearance Type)

※ MBS type must be ordered as a screw and nut assembly.

※ When ordering only a nut, the preload is only S type (Clearance type).

[Screw Shaft Only Part Numbers]

RM 3220T
[1]

- 1500L
[2]

- T7
[3]

[1] Model No.

[2] Screw shaft length

[3] Accuracy

※ Refer to the specifications for the Model No.

※ Individual screw shafts are only available in the T7 precision grade.

※ MBS type must be ordered as a screw and nut assembly.

[Nut and Screw Assembly Part Numbers]

3220 SLK
[1]

- A
[2]

- 1
[3]

- 1300 / 1500
[4] [5]

- T7
[6]

- R
[7]

[1] Model No. : STK, SLK, MBS

[2] Preload : S (Clearance Type), A (Non-backlash Type)

[3] Nut Quantity : Nut Quantity on Screw shaft

[4] Thread Length : No Symbol (No processing)

[5] Total Length

[6] Accuracy : P5, T7

[7] Surface treatment : No Symbol (Standard), R (Surface treatment)

※ A screw-nut assembly is recommended if high accuracy or rigidity is required.

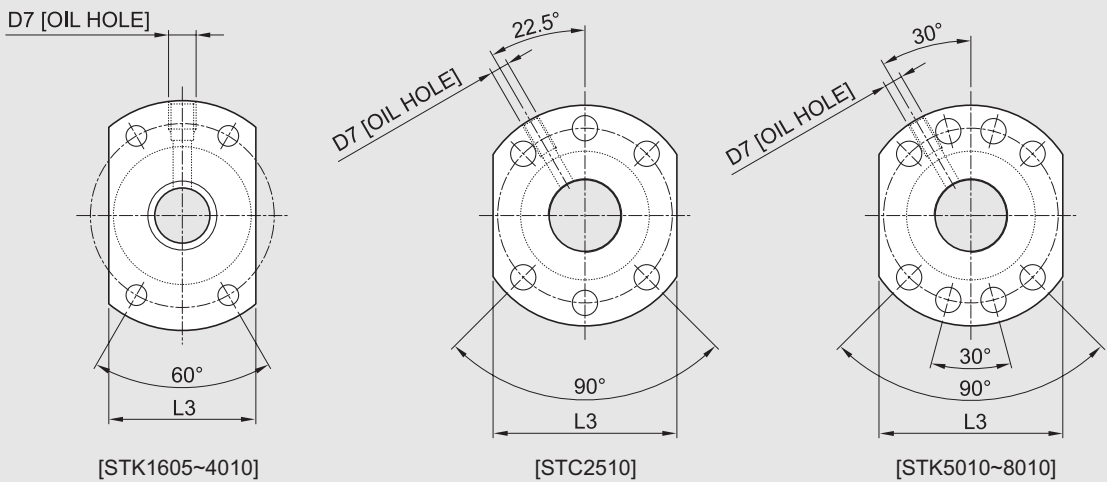
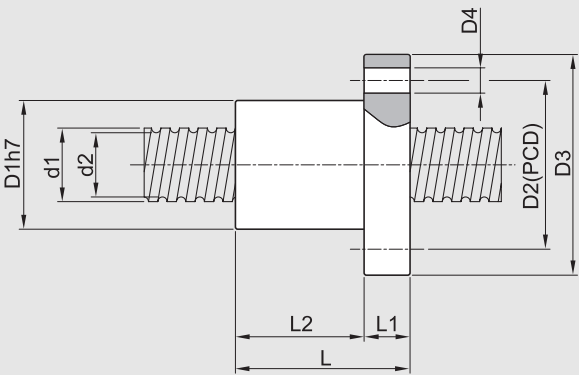
※ For surface treatment, mark the type of surface treatment.

※ If end machining is required, please attach a drawing.

※ Refer to the specifications for the Accuracy.

※ MBS type can only be ordered as a screw-nut assembly.

STK/STC Precision Rolled Ball Screw STK/STC Type



Model No.	d1 (Nominal diameter)	Ph (Lead)	do (Ball circle diameter)	Da (Ball Diameter)	d2 (Root - diameter)	i (No. of circuits)	D1	D2 (PCD)	D3
STK1605	15.6	5	16	3.5	12.7	3x1	34	44	54
STK2005	19.6	5	20	3.5	16.7	4x1	40	50	60
STK2505	24.6	5	25	3.5	21.7	4x1	43	55	67
STK2510	24.6	10	25	3.5	21.7	4x1	60	78	96
STC2510	24.6	10	25	3.5	21.7	4x1	40	51	62
STK3205	31.6	5	32	3.5	28.7	4x1	56	71	86
STK3210	31.6	10	32	5.556	27.1	4x1	67	85	103
STK4005	39.6	5	40	3.5	36.7	4x1	64	82	100
STK4010	39.6	10	40	7.144	36.7	4x1	76	96	116
STK5010	49.5	10	50	7.144	43	4x1	75	93	110
STK6310	62.5	10	63	7.144	56.9	6x1	90	108	125
STK8010	79.5	10	80	7.144	73.9	6x1	105	125	145

① Ca (Basic Dynamic load rating), Coa (Basic static load rating)

(Unit : mm)

D4	D7	L	L1	L2	L3	Ca [kN]	Coa [kN]	Max. Length
4.5	M6x1	45	10	35	40	7.5	12.1	3000
4.5	M6x1	53	10	43	46	11.0	23.3	4000
5.5	M6x1	53	10	43	50	12.5	30.4	5000
9	M6x1	85	15	70	72	19.0	38.0	5000
6.6	M6x1	85	12	73	48	19.0	38.0	5000
6.6	M6x1	53	12	41	68	14.2	40.0	6000
9	M6x1	90	15	75	78	33.2	70.0	6000
9	M6x1	56	15	41	75	26.3	59.2	6000
11	M6x1	93	17	76	88	64.9	109	6000
11	M8x1	98	16	75	85	66.4	134.3	6000
11	M8x1	126	18	96	95	93.8	229.7	6000
13.5	M8x1	128	20	96	110	121.9	374.9	7000

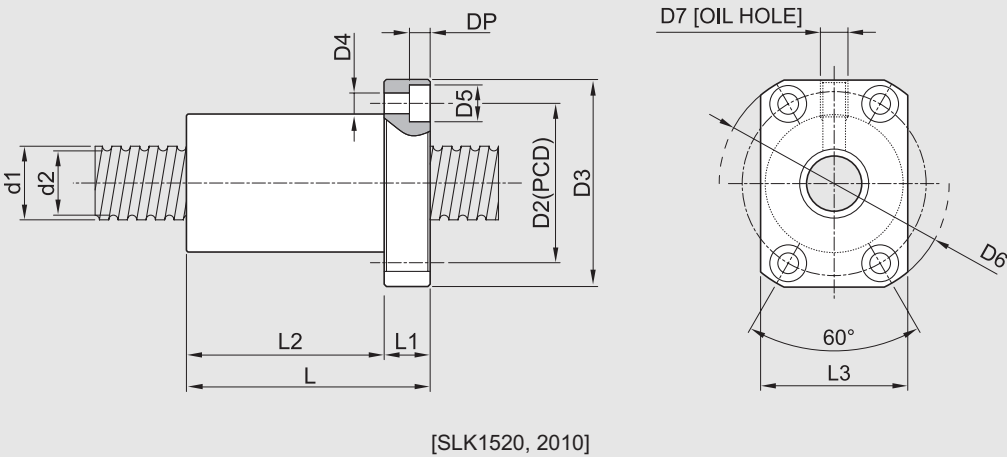
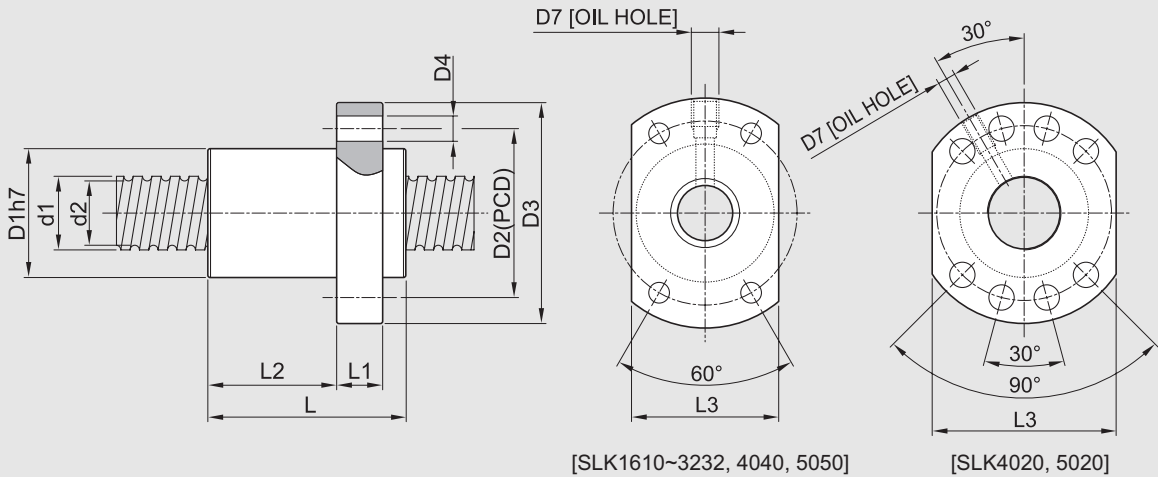
Ball Screw

SBC Precision Rolled Ball Screw

Ball Screw

SBC Precision Rolled Ball Screw

SLK Long Lead Rolled Ball Screw



Model No.	d1 (Nominal diameter)	Ph (Lead)	do (Ball circle diameter)	Da (Ball Diameter)	d2 (Root - diameter)	i (No. of circuits)	D1	D2 (PCD)	D3	D4
SLK 1520	15	20	15.5	3.175	12.4	1.5x1	34	45	50	6
SLK 1610	15.9	10	16.6	3.175	13.4	3x1	34	45	57	5.5
SLKN 1616	15.9	16	16.6	3.175	13.4	1.8x2	32	42	53	4.5
SLK 2010	20	10	21	3.969	17	2.5x1	46	59	66	6.6
SLK 2020	19.6	20	20	3.5	16.7	1.8x2	39	50	62	5.5
SLK 2525	24.6	25	25	3.5	21.7	1.8x2	47	60	74	6.6
SLK 3220	32	20	32.7	3.969	28.7	3x1	50	65	80	9
SLKN 3232	32	32	33	4.762	28.2	1.8x2	58	74	92	9
SLK 4020	39.6	20	40	5.556	35.2	3x1	63	78	93	9
SLK 4040	39.6	40	40	7.144	34	1.8x2	73	93	114	11
SLK 5020	49.5	20	50	6.35	44.6	5x1	75	93	110	11
SLK 5050	50	50	52.2	7.938	44.3	1.8x2	90	112	135	14

① Ca (Basic Dynamic load rating), Coa (Basic static load rating)

(Unit : mm)										
D5	DP	D6	D7	L	L1	L2	L3	Ca [kN]	Coa [kN]	Max. Length
-	-	55	M4x0.7	57	7	50	34	4.56	7.23	3000
-	-	-	M6x1	48	10	27.5	40	7	12	3600
-	-	-	M6x1	48	10	27.5	38	7.1	14	3600
11	5.5	74	M6x1	54	13	41	46	6.8	10.8	3000
-	-	-	M6x1	55	10	34	46	11.5	17.5	4000
-	-	-	M6x1	64	12	40.8	56	13	22.6	5000
-	-	-	M6x1	78	13	45	62	20.9	57.7	6000
-	-	-	M6x1	82	15	53	68	17.2	53.9	6000
-	-	-	M8x1	82	15	47.5	70	52.2	103.6	6000
-	-	-	M8x1	99	17	63	84	59.7	108.9	6000
-	-	-	M8x1	120	18	80	85	78.8	188.7	6000
-	-	-	M6x1	123	20	81.5	92	50	135.3	6000

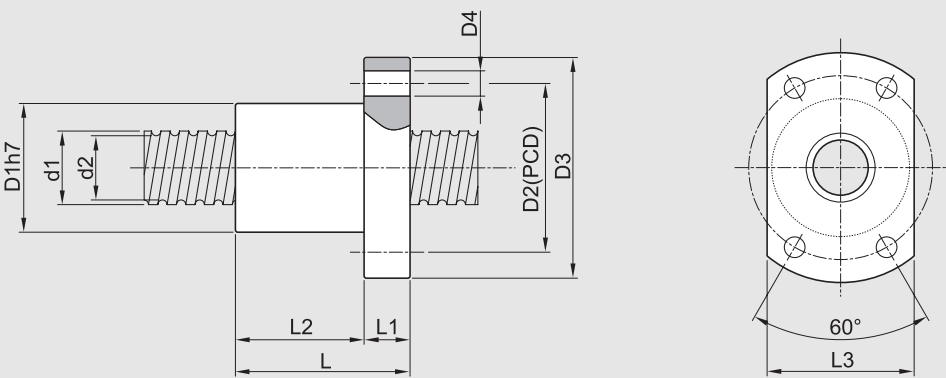
Ball Screw

SBC Precision Rolled Ball Screw

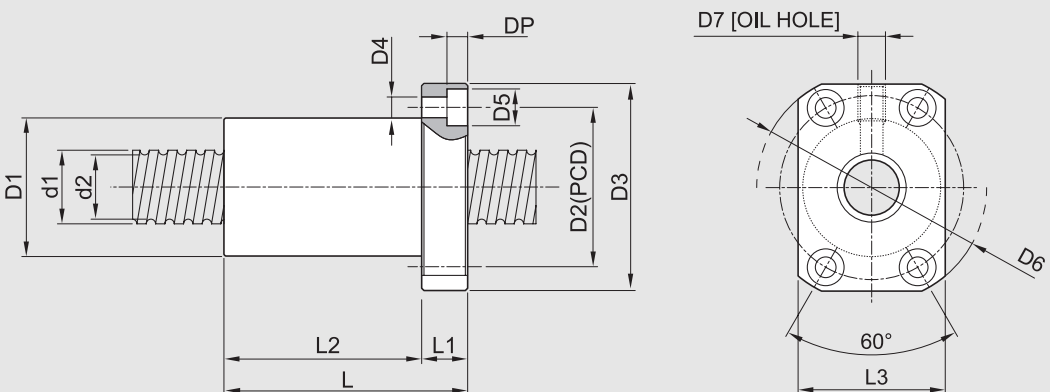
Ball Screw

SBC Precision Rolled Ball Screw

MBS Miniature Rolled Ball Screw



[MBS0601~1205]



[MBS1210]

Model No.	d1 (Nominal diameter)	Ph (Lead)	do (Ball circle diameter)	Da (Ball Diameter)	d2 (Root - diameter)	i (No. of circuits)	D1	D2 (PCD)	D3	D4
MBS 0601	6	1	6.3	0.8	5.5	3x1	13	21.5	27	3.4
MBS 0801	8	1	8.2	0.8	7.4	4x1	16	24	30	3.4
MBS 0802	8	2	8.4	1.2	7.2	3x1	16	24	30	3.4
MBS 0802.5	8	2.5	8.4	1.2	7.2	2.5x1	20	30	38	4.5
MBS 1002	10	2	10.4	1.2	8.4	3x1	18	27	35	4.5
MBS 1004	10	4	10.6	2	8.6	3x1	26	36	46	4.5
MBS 1204	12	4	12.4	2.381	10	3.5x1	28	39	48	5.5
MBS 1205	12	5	12.4	2	10.4	3.5x1	28	39	48	5.5
MBS 1210	12	10	12	2	10	2x1	30	40	45	4.5

- ① Ca (Basic Dynamic load rating), Coa (Basic static load rating)
- ② MBS0601~1205 do not contain a seal. It is necessary to use a dust-prevention device.

(Unit : mm)										
D5	DP	D6	D7	L	L1	L2	L3	Ca [kN]	Coa [kN]	Max. Length
-	-	-	-	15	3.5	11.5	17	0.71	1.18	900
-	-	-	-	16	4	12	18	0.95	1.91	1200
-	-	-	-	16	4	12	18	1.13	1.87	1200
-	-	-	-	21	5	16	23	1.48	2.27	1200
-	-	-	-	28	5	23	22	1.81	2.99	1200
-	-	-	-	34	10	24	28	3.87	5.78	1200
-	-	-	-	30	6	24	30	4.16	7.23	1400
-	-	-	-	35	6	29	30	6.49	10.15	1400
8	4.5	50	M6x1	40	10	30	32	2.5	3.59	3000