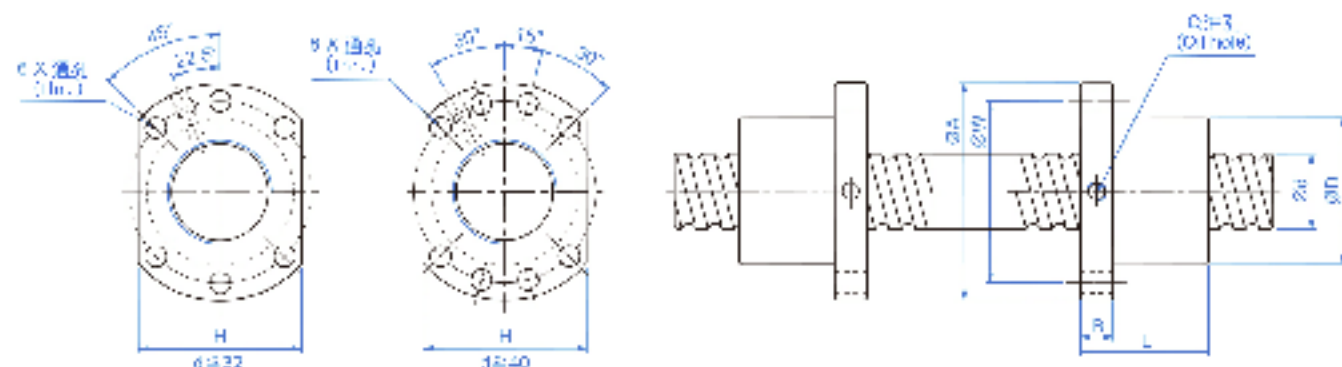
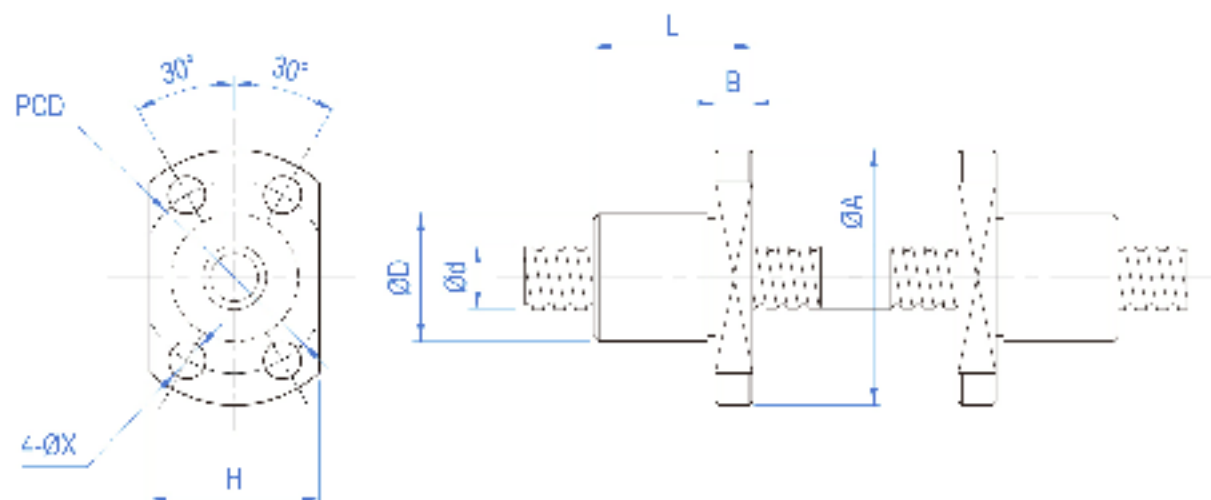


Bi-directional ball screw



Code	d	P	W	Nut Dimension									(kgf)		(kg/LM)
				D	A	B	L	W	H	X	Q	r	Ca	Coa	
SFL1604-4	10	4	2.5	24	40	10	40	32	30	4.5		1x4	900	1884	26
SFL1604-4	10	4	3.381	28	48	10	41	38	40	5.5	M6	1x4	900	2416	32
SFL1605-4		5	3.173	28	48	10	30	36	40	3.5	M6	1x4	1350	2052	22
SFU1610-5		10	3.173	28	48	10	37	36	40	3.5	M6	1x5	1102	2401	26
SFU2004-4	20	4	2.381	36	56	10	42	47	44	6.6	M6	1x4	1056	2987	38
SFU2005-4		5	3.173	36	56	10	51	47	44	6.6	M6	1x4	1551	3875	39
SFU2504-4	25	4	2.381	40	62	10	42	52	48	6.0	M6	1x4	1190	3795	40
SFU2505-4		5	3.173	40	62	10	51	52	48	6.6	M6	1x4	1724	4904	43
SFL2506-1		6	3.969	40	62	10	37	5	45	6.6	M6	1x4	2315	6057	47
SFL2508-4		8	4.757	40	62	10	63	57	48	6.6	M6	1x4	2953	8113	45
S-UD510-4	10	4.757	40	62	12	65	57	48	6.6	M6	1x4	2954	6995	50	
SFU3204-4	32	4	2.081	50	80	12	44	65	62	9	M6	1x4	1295	4835	51
SFU3205-4		5	2.173	50	80	12	52	65	62	9	M6	1x4	1922	6343	54
SFU3206-4		6	3.969	50	80	12	57	65	62	9	M6	1x4	2632	7979	57
S-UD506-4		6	4.757	50	80	12	65	65	62	9	M6	1x4	3387	9622	50
SFU3210-4		10	6.35	50	80	12	90	65	62	9	M6	1x4	4805	12208	61
SFU4005-4	40	5	2.173	63	93	14	55	78	70	9	M8	1x4	2110	7096	62
SFL4006-1		6	3.969	63	93	14	60	78	70	9	M6	1x4	2873	9915	66
SFL4008-4		8	4.757	63	93	14	67	78	70	9	M6	1x4	3712	1447	70
S-UD610-4		10	6.35	63	93	14	83	78	70	9	M8	1x4	5399	15501	63
SFU5010-4	50	10	6.35	75	110	16	68	93	85	11	M8	1x4	6004	19614	85

Bi-directional ball screw

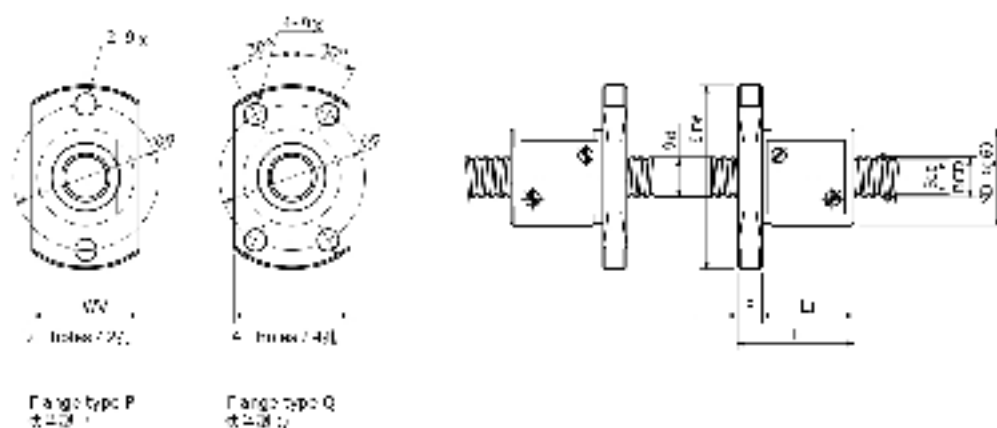


Code	d	P	D _{ex}	n	C ₀₁	C ₀₂	K	Nut Dimension									
								U	A	B	L	ØD	H	X	Y	Z	Q
0801	8	1	0.8	3	161	400	14	12	27	4	18	21	18	3.4	/	/	/
0802	8	2	1.2	3	222	495	15	14	27	4	18	21	18	3.4	/	/	/
0800.5	8	2.5	1.7	3	221	457	13	16	28	4	20	23	20	3.4	/	/	/
1002	10	2	1.588	3	245	599	15	18	35	5	22	27	22	4.5	/	/	/
1003	10	3	2.0	3	245	560	15	20	35	5	20	27	27	4.5	/	/	/
1004	10	4	2.981	3	402	605	17	22	40	10	28	30	28	4.5	/	/	/
1201	12	1	0.8	3	173	317	15	20	31	5	28	29	27	4.5	/	/	/
1202	12	2	1.588	3	254	600	21	20	37	5	28	29	24	4.5	/	/	/
1200.5	12	2.5	1.7	3	355	587	22	20	37	5	28	29	27	4.5	/	/	/
1203	12	3	2.5	3	365	590	22	20	37	5	28	29	24	4.5	/	/	/

Note: the size and shape of the nut can be made as per customers requirement.

P: lead; B: ball diameter; n: number of balls per revolution; K: stiffness (kg/mm);
 C₀₁: rated dynamic load (kg); C₀₂: static load (kg);

Bi-directional ball screw



Ball Screw Model	Start thread size	end	Ball size	Pitch	end Pitch	Ball size	Number of ball	Ball Load Range		No. of balls
								Dynamic	Static	
040	4	7	2.8	4.0	4.0	5.4	14	300/300	430/430	55/51
050	5	8	3.2	4.5	4.5	6.1	14	330/330	460/460	57/51
060	6	9	3.6	5.0	5.0	6.8	14	360/360	500/500	55/53
070	E	1	4.0	5.5	5.5	7.2	14	400/370	550/500	60/59
080.5		1.5	4.5	6.0	6.0	7.9	14	450/380	600/550	73/63
090	F	2	4.5	6.0	6.0	8.0	14	450/390	600/550	62/61
100		3	5.0	6.5	6.5	8.7	14	500/400	650/560	84/63
100.5	G	1	5.0	6.5	6.5	8.7	14	480/390	630/560	62/63
100		2	5.5	7.0	7.0	9.4	14	530/400	680/570	83/64
100.5	H	2.5	5.5	7.0	7.0	9.4	14	530/410	680/580	84/64
100		3	6.0	7.5	7.5	10.1	14	580/420	730/590	142/65
100.5	I	4	6.0	7.5	7.5	10.1	14	580/430	730/600	104/66
100		5	6.5	8.0	8.0	10.8	14	630/440	780/610	105/65
100	J	1	6.5	8.0	8.0	10.8	14	630/450	780/620	92/67
100		2	7.0	8.5	8.5	11.5	14	680/460	830/630	100/68
100.5	K	2.5	7.0	8.5	8.5	11.5	14	680/470	830/640	121/69
100		3	7.5	9.0	9.0	12.2	14	730/480	880/650	119/70
100.5	L	4	7.5	9.0	9.0	12.2	14	730/490	880/660	80/71
100		5	8.0	9.5	9.5	12.9	14	780/500	930/670	113/72
100	M	2	8.0	9.5	9.5	12.9	14	780/510	930/680	117/73
100.5		3	8.5	10.0	10.0	13.6	14	830/520	980/690	121/74
100	N	3	9.0	10.5	10.5	14.3	14	880/530	1030/700	119/75
100.5		4	9.5	11.0	11.0	15.0	14	930/540	1080/710	140/76
100	O	5	10.0	11.5	11.5	15.7	14	980/550	1130/720	152/77
100		6	10.5	12.0	12.0	16.4	14	1030/560	1180/730	157/78
100	P	3	11.0	12.0	12.0	16.4	14	1030/570	1180/740	157/79
100.5		4	11.5	12.5	12.5	17.1	14	1080/580	1230/750	157/80
100	Q	4	12.0	13.0	13.0	17.8	14	1130/590	1280/760	157/81
100.5		5	12.5	13.5	13.5	18.5	14	1180/600	1330/770	157/82

Note 1) The diameter of the Screw Shaft both ends must be less than the Screw Shaft Base diameter.
 a) Increase Ball Nut diameter of ball nut.

Note 2) Ball Nut diameter is not allowed to be less than the ball diameter.

If the sea size required, Ball Nut dimensions should be changed, in that case, please ask ALM representative.

Some type of Ball Nut cannot equip with sea size, please ask ALM representative.

Note 3) The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity.

Calculated from the moment of Inertia Diameter, under the following conditions.

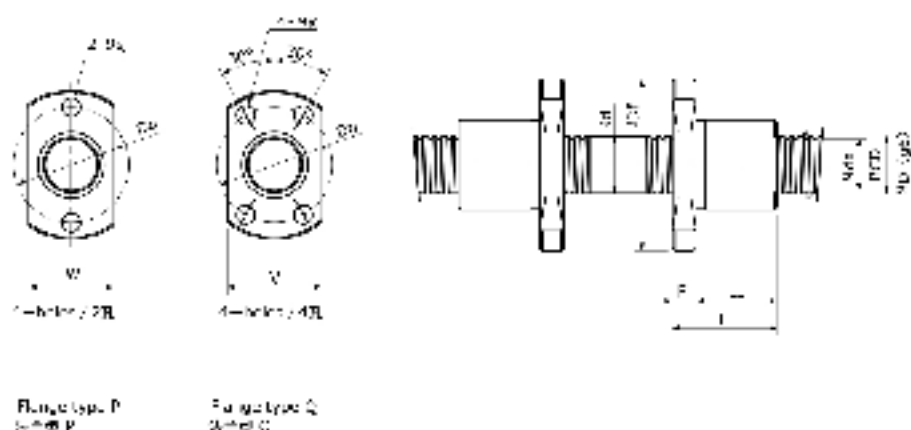
Backlash type/Apply the Axial load on the ball nut 30% of the Basic Dynamic Rating Ca.

Preload type/Apply the Preload on the ball nut 5% of the Basic Dynamic Load Rating Ca.

For Axial load or Preload condition other than the above, see the formula in the A405, you can calculate Rigidity using this formula.

Note 4) Ball Load Rating and Rigidity for Backlash type and Preload type are described in the same way.

Bi-directional ball screw



Flange type P
法兰盘 P

Flange type Q
法兰盘 Q

Ball size	Ball size										Ball code number
	D	DI	L	l	r	W	V	Z	N ₁ (mm)	Flange Type	
2	6	13	3	10	3	11	13	14	20	F0	100
2	10	20	11	16	3	12	14	15	25	F0	150
2	17	33	14.5	17	3.5	13	13	17	34	F0	160
2	13	26	11	11	4	11	17	20	31	F0	190
2	15	33	12	16	4	17	19	22	34	F0	190LT
2	15	33	14	14	4	11	18	20	34	F0	190
2	15	33	11	11	4	17	19	22	34	F0	190
2	17	37	12	16	4	11	17	20	31	F0	190*
2	17	34	11	14	3	11	21	26	43	F0	190
2	18	38	11	16	3	11	22	27	43	F0	190*
1	24	44	17	24	6	15	27	33	50	F0	190*
1	24	47	18	23	6	15	27	33	50	F0	190*
1	24	44	14	22	6	15	27	33	50	F0	190
2	16	34	11	11	3	11	17	20	31	F0	190
2	19	38	12	14	3	11	21	23	40	F0	190
2	20	41	11	16	3	11	24	29	45	F0	190*
2	22	41	12	20	5	11	25	32	50	F0	190*
1	28	48	15	27	6	15	30	39	55	F0	190
1	30	50	15	17	5	15	30	37	50	F0	190*
2	22	40	11	14	3	11	18	21	35	F0	190
2	22	41	12	16	3	11	18	21	35	F0	190*
2	24	43	11	20	6	15	27	34	53	F0	190
2	24	45	12	21	6	15	28	36	55	F0	190
1	30	51	15	23	6	15	30	37	50	F0	190
1	30	53	15	11	5	15	30	39	50	F0	190
2	24	43	11	14	3	11	18	21	35	F0	190
2	26	45	11	16	3	11	19	23	37	F0	190
2	28	47	11	21	6	11	20	28	50	F0	190*
1	36	57	15	19	5	15	30	36	50	F0	190