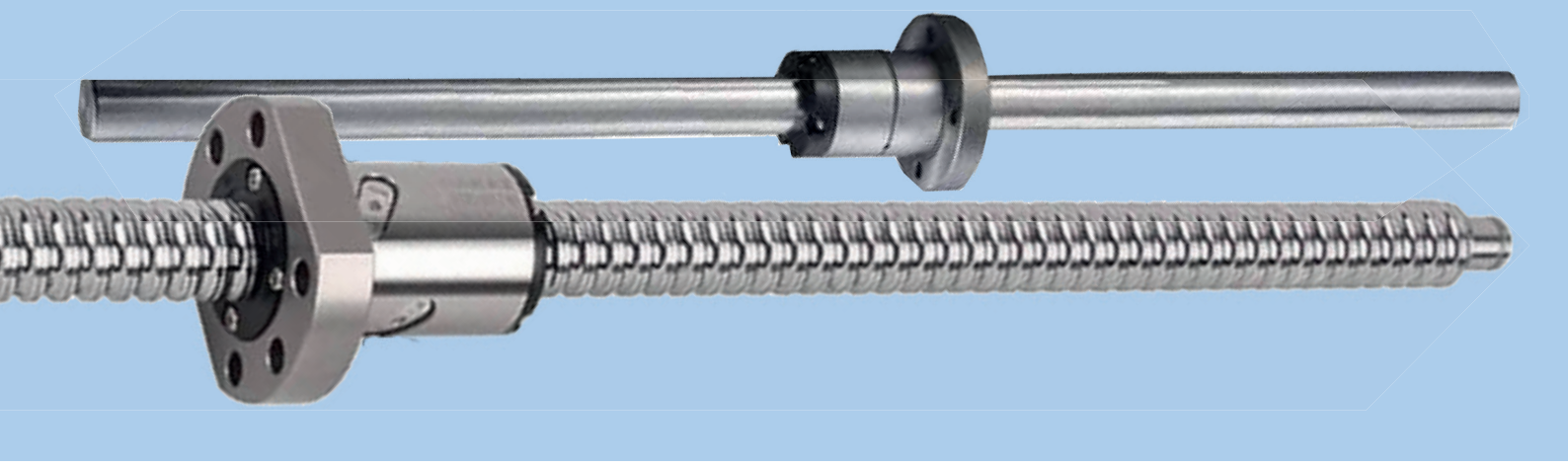
Precision Machinery Factory

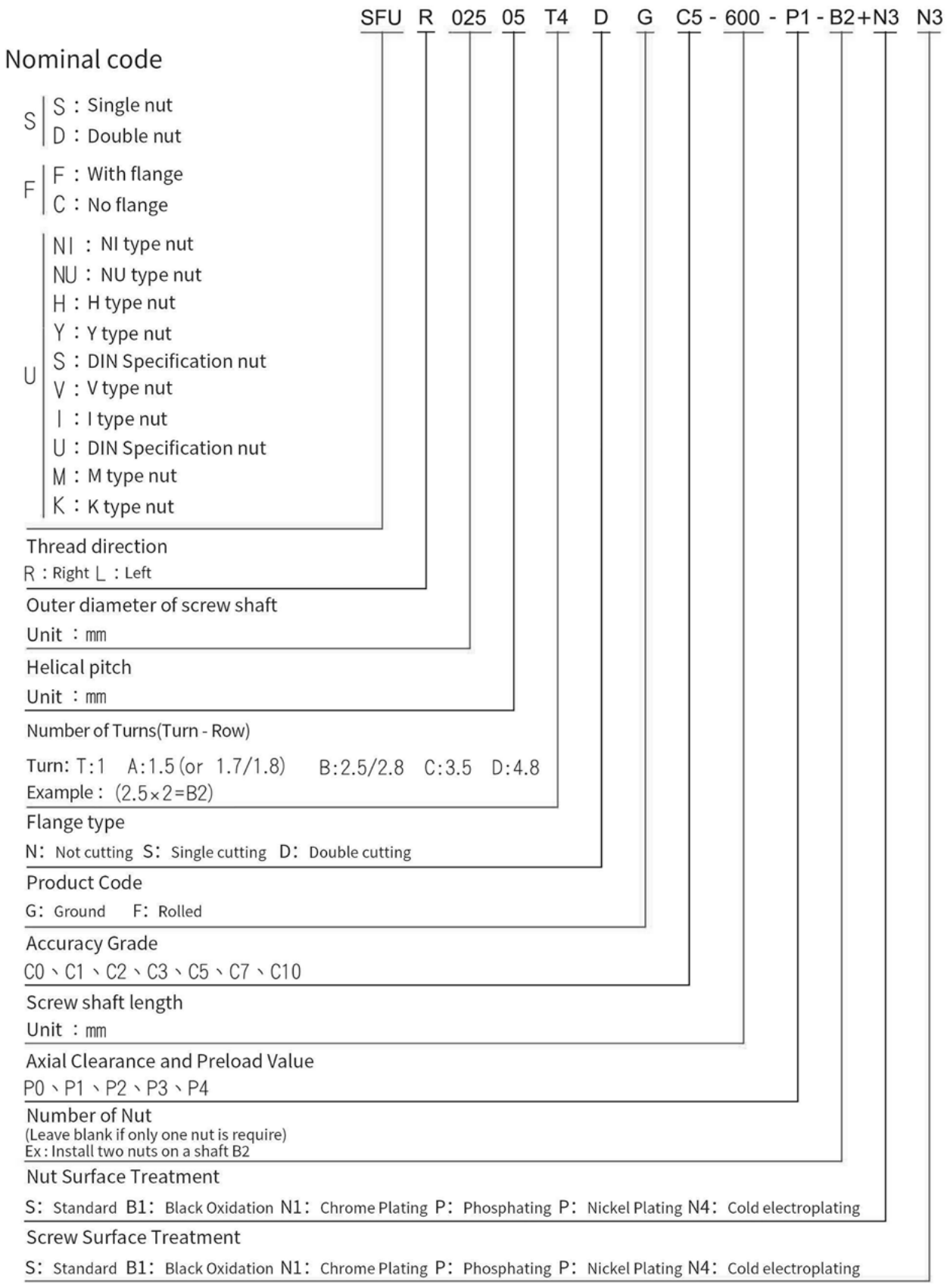
VKE



Contents

Precision Ground Ball Screw Series

1.1 Nominal designation of ball screws



Precision Ground Ball Screw Series

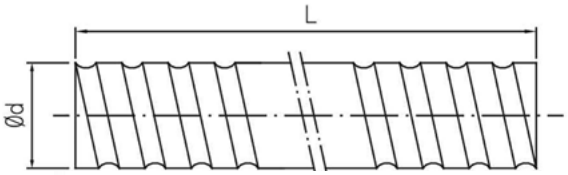


Fig 1.1.1 Screw Shaft Nominial Diameter

Table 1.1.1 Ground Ball Screw Specifications Ø4~32

Model No.			Accuracy Grade	Threading Direction	Number of rooves	Standard Code of Shaft	Type of Nut
Ød	l	Da		R:Right/L:Left			
4	1	0.8	C7、C5、C3	R	1	SCR00401	K
6	1	0.8	C7、C5、C3	R	1	SCR00601	K
8	1	0.8	C7、C5、C3	R／L	1	SCR00801	K
	2	1.2	C7、C5、C3	R／L	1	SCR00802	K
	2.5	1.2	C7、C5、C3	R	1	SCR0082.5	K、BSH
10	2	1.2	C7、C5、C3	R／L	1	SCR01002	K、BSH
	4	2	C7、C5、C3	R	1	SCR01004	K、BSH
12	2	1.2	C7、C5、C3	R／L	1	SCR01202	K
	4	2.5	C7、C5、C3	R	1	SCR01204	U、BSH
	5	2.5	C7、C5、C3	R	1	SCR01205-A	V、U、BSH、S、H
	5	2.5	C7、C5、C3	R	1	SCR01205-B	K
	10	2.5	C7、C5、C3	R	2	SCR01210-B	V
14	2	1.2	C7、C5、C3	R／L	1	SCR01402	K
	4	2.5	C7、C5、C3	R	1	SCR01404	BSH
16	2	1.2	C7、C5、C3	R／L	1	SCR01602	K
	4	2.381	C7、C5、C3	R	1	SCR01604 (N)	V、I、U、BSH
	5	3.175	C7、C5、C3	R／L	1	SCR01605	V、I、U、BSH
	10	3.175	C7、C5、C3	R／L	2	SCR01610	V、I、U、BSH
	16	2.778	C7、C5、C3	R	2	SCR01616	Y
	32	2.778	C7、C5、C3	R	2	SCR01632	Y
20	4	2.381	C7、C5、C3	R	1	SCR02004 (N)	V、I、U
	5	3.175	C7、C5、C3	R／L	1	SCR02005	V、I、U、BSH、S、H
	10	3.969	C7、C5、C3	R	1	SCR02010	V、S、H
	20	3.175	C7、C5、C3	R	2	SCR02020	V、Y、S、H
	40	3.175	C7、C5、C3	R	2	SCR02040	Y
25	4	2.381	C7、C5、C3	R	1	SCR02504 (N)	I、U
	5	3.175	C7、C5、C3	R／L	1	SCR02505	V、I、U、BSH、S、H
	6	3.969	C7、C5、C3	R	1	SCR02506	V、U
	8	4.762	C7、C5、C3	R	1	SCR02508	V、U
	10	4.762	C7、C5、C3	R	1	SCR02510-A	I、U、BSH
	10	6.35	C7、C5、C3	R	1	SCR02510-B	V
	25	3.969	C7、C5、C3	R	2	SCR02525	V、Y
	50	3.969	C7、C5、C3	R	2	SCR02550	Y
32	4	2.381	C7、C5、C3	R	1	SCR03204 (N)	V、I、U
	5	3.175	C7、C5、C3	R／L	1	SCR03205	V、I、U、M、S、H
	6	3.969	C7、C5、C3	R	1	SCR03206	V、U
	8	4.762	C7、C5、C3	R	1	SCR03208	V、U
	10	6.35	C7、C5、C3	R／L	1	SCR03210	V、I、U
	20	6.35	C7、C5、C3	R	1	SCR03220	V
	32	4.762	C7、C5、C3	R	2	SCR03232	Y
	64	4.762	C7、C5、C3	R	2	SCR03264	Y

Model No.			Accuracy Grade	Threading Direction	Number of rooves	Standard Code of Shaft	Type of Nut
∅d	l	Da		R:Right/L:Left			
40	5	3.175	C7、C5、C3	R／L	1	SCR04005	V、I、U、S、H
	6	3.969	C7、C5、C3	R	1	SCR04006	V、U
	8	4.762	C7、C5、C3	R	1	SCR04008	V、U
	10	6.35	C7、C5、C3	R／L	1	SCR04010	V、I、U
	20	6.35	C7、C5、C3	R	2	SCR04020	V
	40	6.35	C7、C5、C3	R	2	SCR04040	Y
	80	6.35	C7、C5、C3	R	2	SCR04080	Y
50	5	3.175	C7、C5、C3	R	1	SCR05005	V、S、H
	10	6.35	C7、C5、C3	R／L	1	SCR05010	V、I、U
	20	9.525	C7、C5、C3	R	1	SCR05020	V
	50	7.938	C7、C5、C3	R	2	SCR05050	Y
	100	7.938	C7、C5、C3	R	2	SCR050100	Y
63	10	6.35	C7、C5、C3	R	1	SCR06310	V、I、U
	20	9.525	C7、C5、C3	R	1	SCR06320	V、U
80	10	6.35	C7、C5、C3	R	1	SCR08010	V、I、U
	20	9.525	C7、C5、C3	R	1	SCR08020	V、U

Table 1.1.3 Comparison Table for S-shaped Size Specifications ∅ 12-50

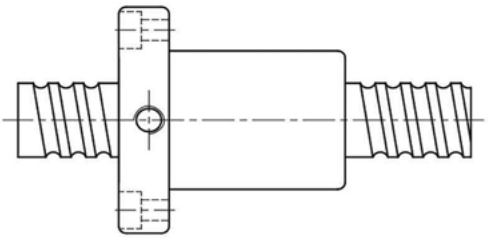
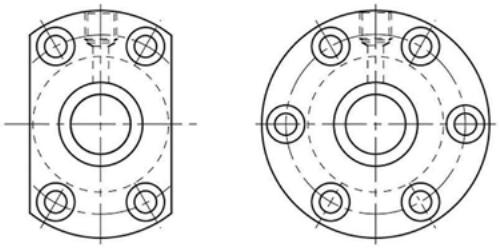
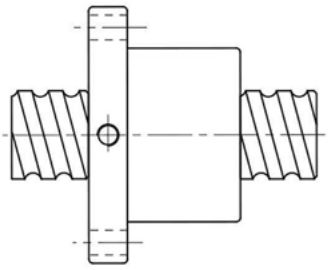
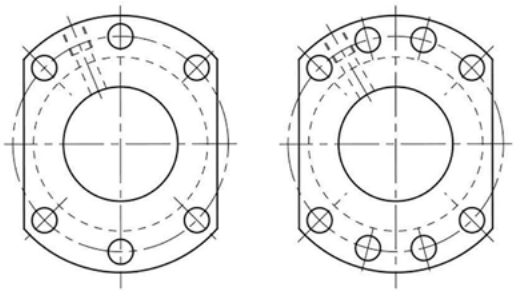
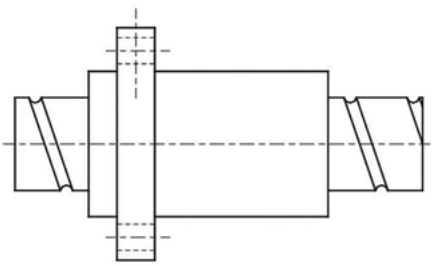
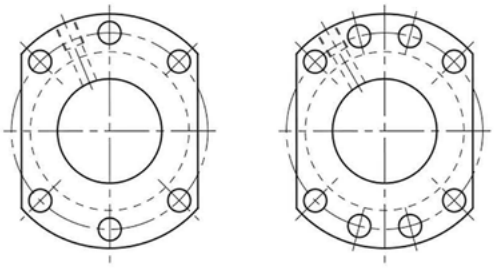
Unit：mm

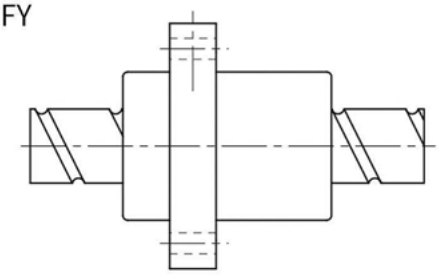
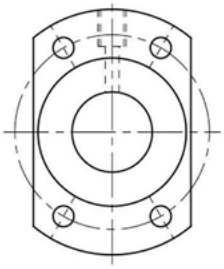
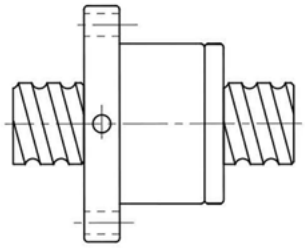
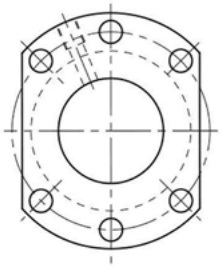
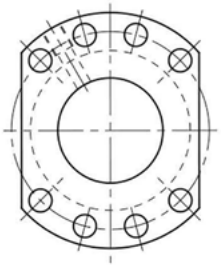
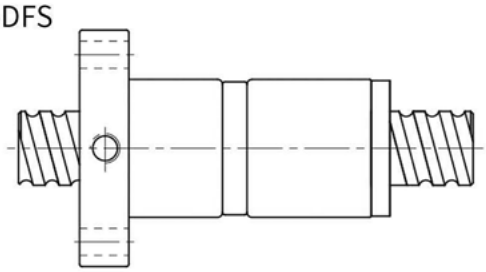
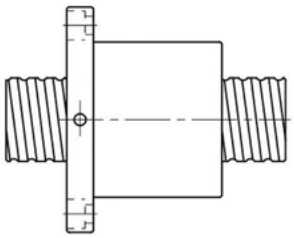
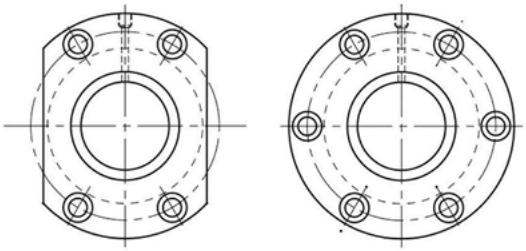
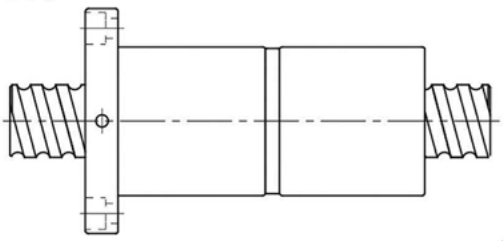
Model No.			Accuracy Grade	Threading Direction	Number of rooves	Standard Code of Shaft	Type of Nut
∅d	l	Da		R:Right/L:Left			
12	10	2.5	C7、C5、C3	R	1	SSR01210	S
16	5	2.778	C7、C5、C3	R	1	SSR01605	S、H
	10	2.778	C7、C5、C3	R	1	SSR01610	S、H
	16	2.778	C7、C5、C3	R	1	SSR01616	S、H
	20	2.778	C7、C5、C3	R	1	SSR01620	S
20	10	3.175	C7、C5、C3	R	1	SSR02010	S、H
25	10	3.175	C7、C5、C3	R	1	SSR02510	S、H
	25	3.175	C7、C5、C3	R	1	SSR02525	S、H
32	10	3.969	C7、C5、C3	R	1	SSR03210	S、H
	20	3.969	C7、C5、C3	R	1	SSR03220	S、H
	32	3.969	C7、C5、C3	R	1	SSR03232	S
40	10	6.35	C7、C5、C3	R	1	SSR04010	S、H
	20	6.35	C7、C5、C3	R	1	SSR04020	S
	40	6.35	C7、C5、C3	R	1	SSR04040	S
50	10	6.35	C7、C5、C3	R	1	SSR05010	S、H
	20	6.35	C7、C5、C3	R	1	SSR05020	S
	50	6.35	C7、C5、C3	R	1	SSR05050	S

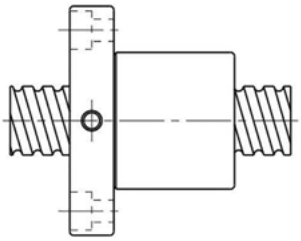
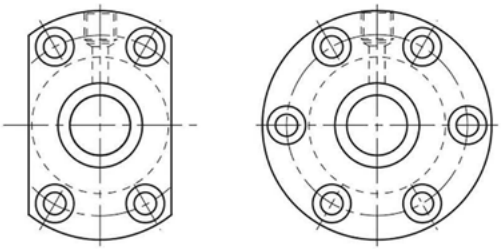
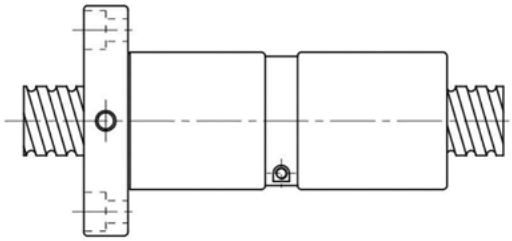
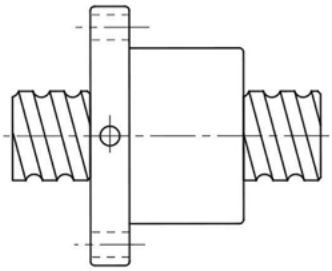
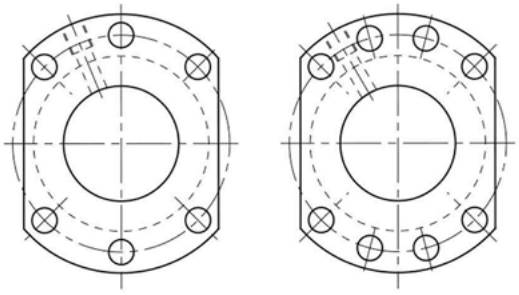
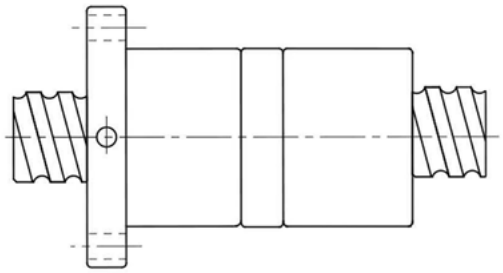
Precision Ground Ball Screw Series

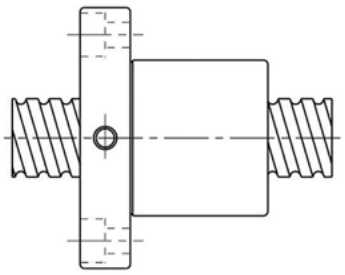
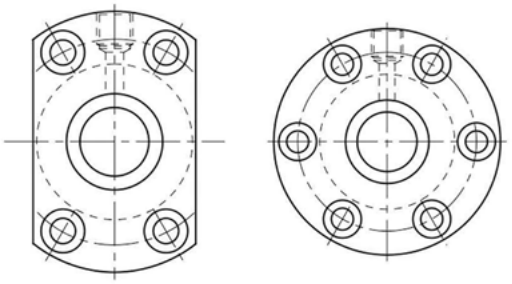
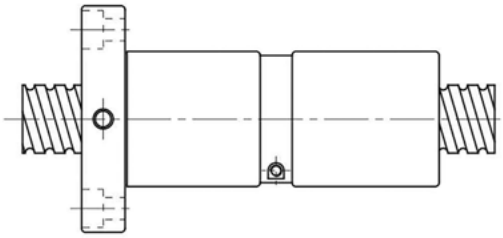
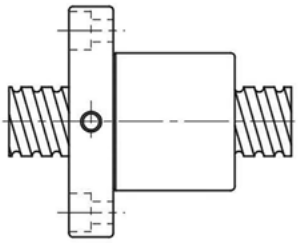
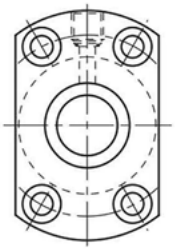
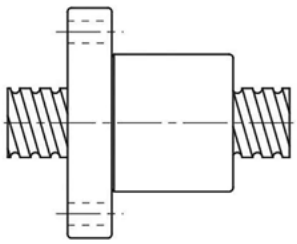
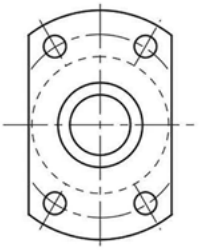
1.2 Precision Ground Ball Screw Series

1.2.1 Nut of Precision Ground Ball Screw Type

	Nut Type	Flange Type
NI (Enhanced dust proof type)	ST-SFNI  C43	
NU (Enhanced dust proof type)	ST-SFNU  C44	
H (High speed reinforced anti dust type)	ST-SFH  C45	

	Nut Type	Flange Type
Y High Dm-N Value	ST-SFY  C46	
S (High speed low noise type)	ST-SFS  C47	 Model No. ≦3232  Model No. ≧4005
	ST-DFS  C48	
V (Heavy load external circulation type)	ST-SFV  C49	
	ST-DFV  C50	

	Nut Type	Flange Type
I (Standard type)	ST-SFI  C51	
	ST-DFI  C52	
U (specifications)	ST-SFU  C53	 d≦32 d≧40
	ST-DFU  C54	

	Nut Type	Flange Type
M (Iron bed dedicated)	ST-SFM  C55	
	ST-DFM  C55	
K (microminiature)	ST-SFK  C56	 (SFK01004) (SFK02002) (SFK02502)
	ST-SFK  C56	

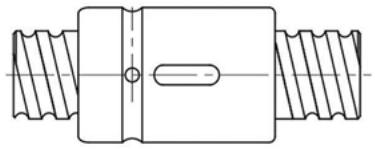
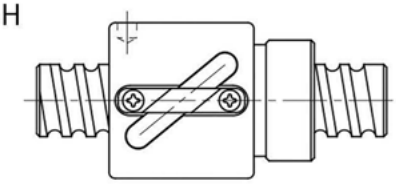
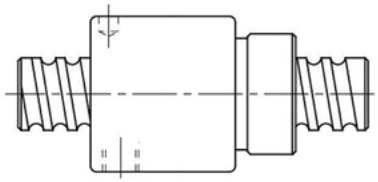
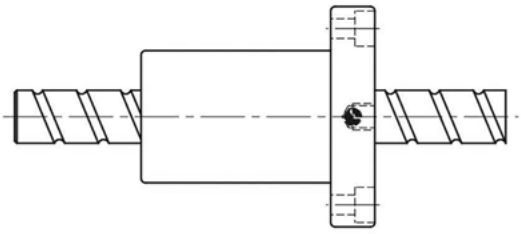
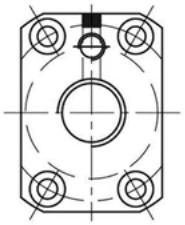
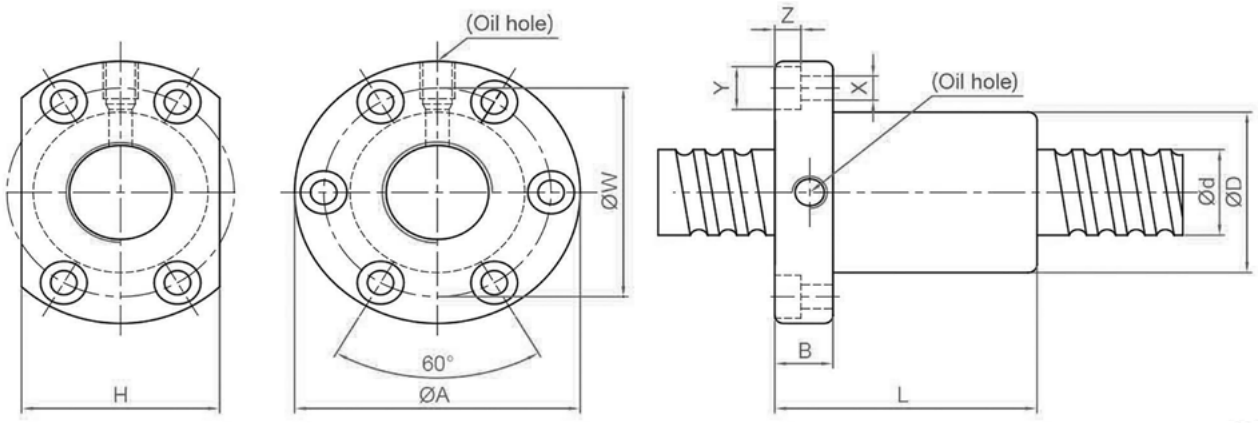
	Nut Type	Flange Type
I (Standard cannot be blue shaped)	ST-SCI(No flange)  C57	No flange
BSH	ST-BSH  d≦12  d≧14 C58	No flange
XSV (Dedicated to automation equipment)	ST-XSV  C59~63	

Table 1.2.2 Preload Chart

Preloading	I, U, M-type	H, S-type	Y-type	V-type	BSH-type	K-type
P0						
P1	✓	✓	✓	✓	✓	✓
P2	✓	✓	✓	✓	✓	
P3	✓	✓	✓	✓	✓	
P4				✓		

Precision Ground Ball Screw Series

ST — SFNI series specification and size table

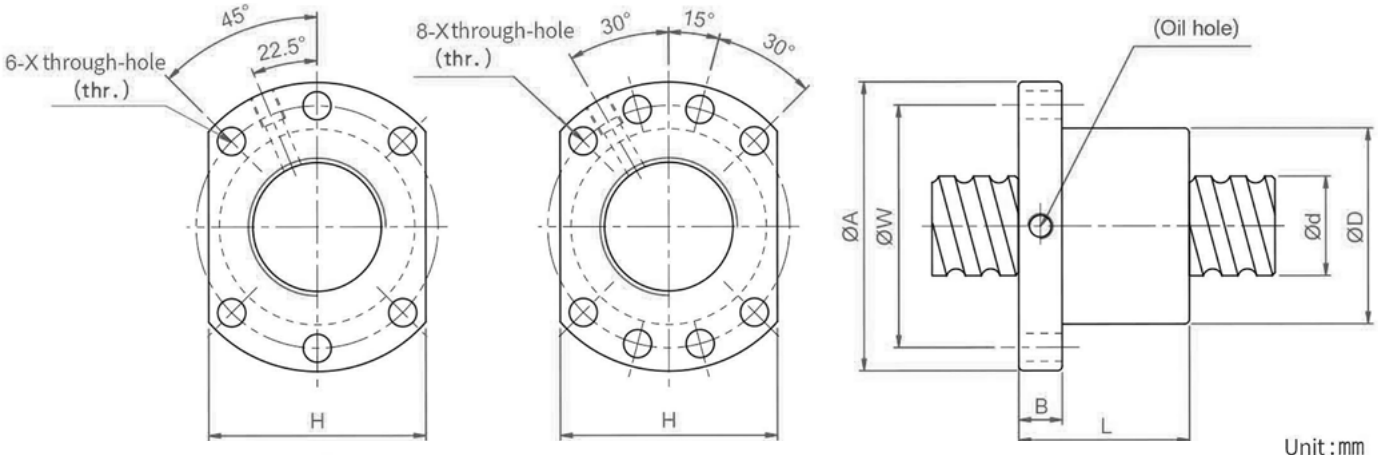


Unit: mm

Model No.	d	l	Da	Nut size											Ball nut Load Rating		K
				D	A	B	L	W	H	X	Y	Z	Q	n	Ca	Coa	K/μm
SFNI01605-4	16	5	3.175	30	49	10	45	39	34	4.5	8	4.5	M6	1x4	1380	3052	33
SFNI01610-3		10	3.175	34	58	10	57	45	34	5.5	9.5	5.5	M6	1x3	1103	2401	27
SFNI02005-4	20	5	3.175	34	57	11	51	45	40	5.5	9.5	5.5	M6	1x4	1551	3875	39
SFNI02505-4	25	5	3.175	40	63	11	51	51	46	5.5	9.5	5.5	M8	1x4	1724	4904	45
SFNI02510-4		10	4.762	46	72	12	80	58	52	6.5	11	6.5	M6	1x4	2954	7295	51
SFNI03205-4	32	5	3.175	46	72	12	52	58	52	6.5	11	6.5	M8	1x4	1922	6343	52
SFNI03210-4		10	6.35	54	88	15	85	70	62	9	14	8.5	M8	1x4	4805	12208	62
SFNI04005-4	40	5	3.175	56	90	15	55	72	64	9	14	8.5	M8	1x4	2110	7988	59
SFNI04010-4		10	6.35	62	104	18	88	82	70	11	17.5	11	M8	1x4	5399	15500	72
SFNI05010-4	50	10	6.35	72	114	18	88	92	82	11	17.5	11	M8	1x4	6004	19614	83
SFNI06310-4	63	10	6.35	85	131	22	93	107	95	14	20	13	M8	1x4	6719	25358	95
SFNI08010-4	80	10	6.35	105	150	22	93	127	115	14	20	13	M8	1x4	7346	31953	109

Precision Ground Ball Screw Series

ST — SFNU series specification and size table

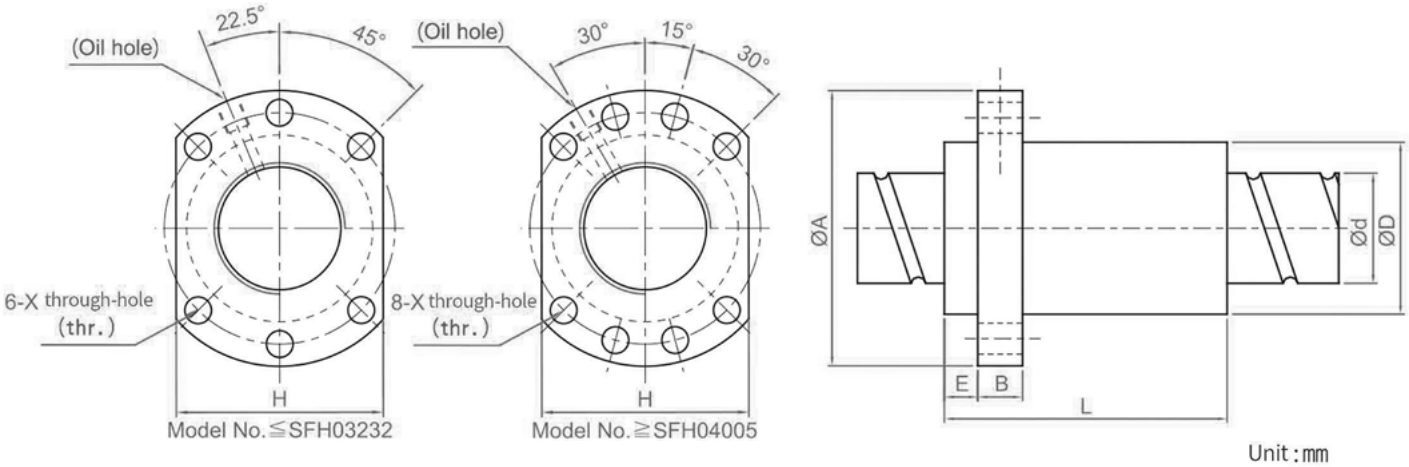


Unit : mm

Model No.	d	l	Da	Nut size									Ball nut Load Rating		K
				D	A	B	L	W	H	X	Q	n	Ca	Coa	K/μm
SFNU01605-4	16	5	3.175	28	48	10	45	38	40	5.5	M6	1x4	1380	3052	32
SFNU01610-3		10	3.175	28	48	10	57	38	40	5.5	M6	1x3	1103	2401	26
SFNU02005-4	20	5	3.175	36	58	10	51	47	44	6.6	M6	1x4	1551	3875	39
SFNU02505-4	25	5	3.175	40	62	10	51	51	48	6.6	M6	1x4	1724	4904	45
SFNU02510-4		10	4.762	40	62	12	80	51	48	6.6	M6	1x4	2954	7295	50
SFNU03205-4	32	5	3.175	50	80	12	52	65	62	9	M6	1x4	1922	6343	54
SFNU03210-4		10	6.35	50	80	12	85	65	62	9	M6	1x4	4805	12208	61
SFNU04005-4	40	5	3.175	63	93	14	55	78	70	9	M8	1x4	2110	7988	63
SFNU04010-4		10	6.35	63	93	14	88	78	70	9	M8	1x4	5399	15500	73
SFNU05010-4	50	10	6.35	75	110	16	88	93	85	11	M8	1x4	6004	19614	85
SFNU06310-4	63	10	6.35	90	125	18	93	108	95	11	M8	1x4	6719	25358	99
SFNU08010-4	80	10	6.35	105	145	20	93	125	110	13.5	M8	1x4	7346	31953	109

Precision Ground Ball Screw Series

ST — SFH series specification and size table

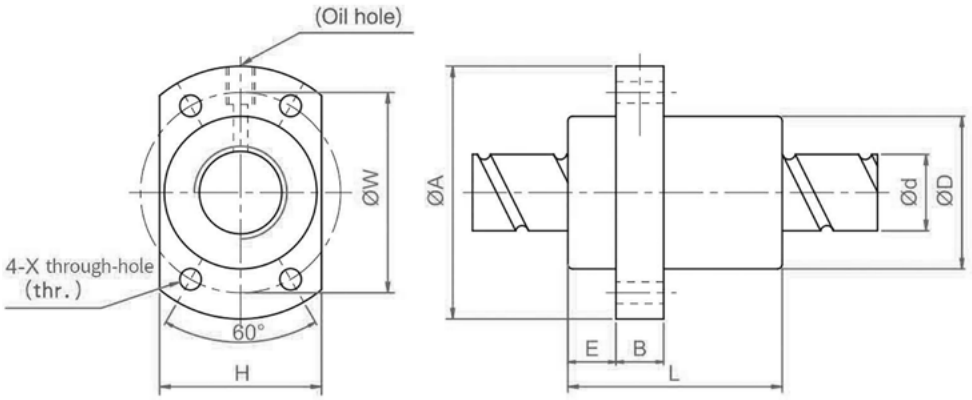


Unit : mm

Model No.	d	l	Da	Nut size										Ball nut Load Rating		K kgf/μm
				D	A	E	B	L	W	H	X	Q	n	Ca	Coa	
SFH01205-2.8	12	5	2.5	24	40	5	10	30	32	30	4.5		2.8x1	661	1316	19
SFH01210-2.8		10	2.5	24	40	5	10	45	32	30	4.5		2.8x1	642	1287	19
SFH01605-3.8	15	5	2.778	28	48	5	10	37	38	40	5.5	M6	3.8x1	1112	2507	30
SFH01610-2.8		10	2.778	28	48	5	10	45	38	40	5.5	M6	2.8x1	839	1821	23
SFH01616-1.8		16	2.778	28	48	5	10	45	38	40	5.5	M6	1.8x1	552	1137	14
SFH01616-2.8		16	2.778	28	48	5	10	61	38	40	5.5	M6	2.8x1	808	1769	22
SFH01620-1.8		20	2.778	28	48	5	10	58	38	40	5.5	M6	1.8x1	554	1170	14
SFH02005-3.8	20	5	3.175	36	58	7	10	37	47	44	6.6	M6	3.8x1	1484	3681	37
SFH02010-3.8		10	3.175	36	58	7	10	55	47	44	6.6	M6	3.8x1	1516	3833	40
SFH02020-1.8		20	3.175	36	58	7	10	54	47	44	6.6	M6	1.8x1	764	1758	19
SFH02020-2.8		20	3.175	36	58	7	10	74	47	44	6.6	M6	2.8x1	1118	2734	29
SFH02505-3.8	25	5	3.175	40	62	7	10	37	51	48	6.6	M6	3.8x1	1650	4658	43
SFH02510-3.8		10	3.175	40	62	7	12	55	51	48	6.6	M6	3.8x1	1638	4633	45
SFH02525-1.8		25	3.175	40	62	7	12	64	51	48	6.6	M6	1.8x1	843	2199	22
SFH02525-2.8		25	3.175	40	62	7	12	89	51	48	6.6	M6	2.8x1	1232	3421	34
SFH03205-3.8	32	5	3.175	50	80	9	12	37	65	62	9	M6	3.8x1	1839	6026	51
SFH03210-3.8	31	10	3.969	50	80	9	12	57	65	62	9	M6	3.8x1	2460	7255	55
SFH03220-2.8		20	3.969	50	80	9	12	76	65	62	9	M6	2.8x1	1907	5482	43
SFH03232-1.8		32	3.969	50	80	9	12	80	65	62	9	M6	1.8x1	1257	3426	27
SFH03232-2.8		32	3.969	50	80	9	12	112	65	62	9	M6	2.8x1	1838	5329	42
SFH04005-3.8	40	5	3.175	63	93	9	15	42	78	70	9	M8	3.8x1	2018	7589	60
SFH04010-3.8	38	10	6.35	63	93	9	14	60	78	70	9	M8	3.8x1	5035	13943	67
SFH04020-2.8		20	6.35	63	93	9	14	80	78	70	9	M8	2.8x1	3959	10715	54
SFH04040-1.8		40	6.35	63	93	9	14	98	78	70	9	M8	1.8x1	2585	6648	34
SFH04040-2.8		40	6.35	63	93	9	14	138	78	70	9	M8	2.8x1	3780	10341	52
SFH05005-3.8	50	5	3.175	75	110	10.5	15	42	93	85	11	M8	3.8x1	2207	9542	68
SFH05010-3.8	48	10	6.35	75	110	10.5	18	60	93	85	11	M8	3.8x1	5638	17852	79
SFH05020-3.8		20	6.35	75	110	10.5	18	100	93	85	11	M8	3.8x1	5749	18485	87
SFH05050-1.8		50	6.35	75	110	10.5	18	120	93	85	11	M8	1.8x1	2946	8749	42
SFH05050-2.8		50	6.35	75	110	10.5	18	170	93	85	11	M8	2.8x1	4308	13610	65

Precision Ground Ball Screw Series

ST — SFY series specification and size table

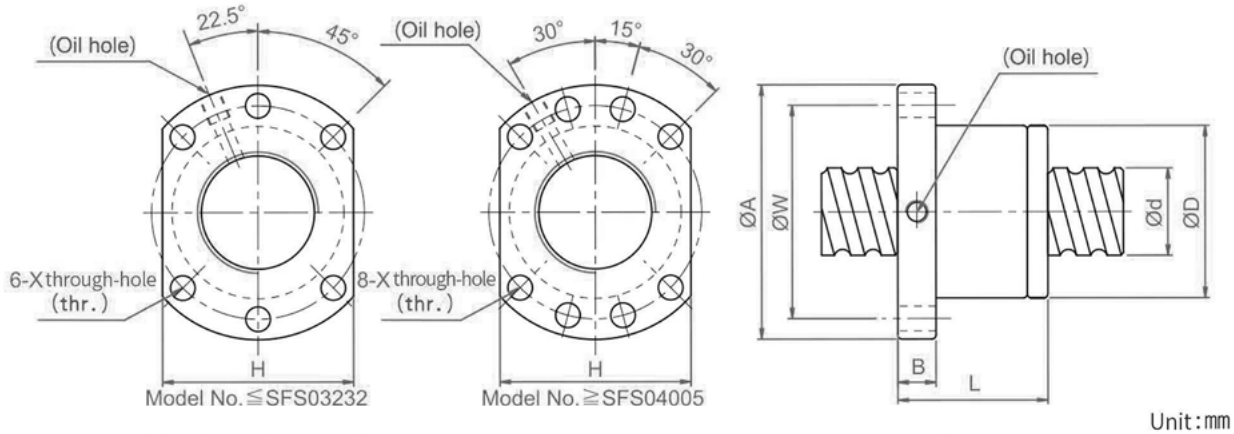


Unit:mm

Model No.	d	l	Da	Nut size										Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	E	B	L	W	H	X	Q	n			
SFY01616-3.6	16	16	2.778	32	53	10.1	10	45	42	34	4.5	M6	1.8x2	1073	2551	31
SFY01616-5.6		16	2.778	32	53	10.1	10	61	42	34	4.5	M6	2.8x2	1568	3968	47
SFY02020-3.6	20	20	3.175	39	62	13	10	52	50	41	5.5	M6	1.8x2	1387	3515	37
SFY02020-5.6		20	3.175	39	62	13	10	72	50	41	5.5	M6	2.8x2	2029	5468	56
SFY02525-3.6	25	25	3.969	47	74	15	12	64	60	49	6.6	M6	1.8x2	2074	5494	45
SFY02525-5.6		25	3.969	47	74	15	12	89	60	49	6.6	M6	2.8x2	3032	8546	69
SFY03232-3.6	32	32	4.762	58	92	17	12	78	74	60	9	M6	1.8x2	3021	8690	58
SFY03232-5.6		32	4.762	58	92	17	12	110	74	60	9	M6	2.8x2	4417	13517	88
SFY04040-3.6	40	40	6.35	73	114	19.5	15	99	93	75	11	M6	1.8x2	4831	14062	70
SFY04040-5.6		40	6.35	73	114	19.5	15	139	93	75	11	M6	2.8x2	7065	21874	106
SFY05050-3.6	50	50	7.938	90	135	21.5	20	117	112	92	14	M6	1.8x2	7220	21974	86
SFY05050-5.6		50	7.938	90	135	21.5	20	167	112	92	14	M6	2.8x2	10558	34182	131
Model No.	d	l	Da	Nut size										Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	E	B	L	W	H	X	Q	n			
SFY01632-1.6	16	32	2.778	32	53	10.1	10	42.5	42	34	4.5	M6	0.8x2	493	1116	11
SFY01632-3.6		32	2.778	32	53	10.1	10	74.5	42	34	4.5	M6	1.8x2	989	2511	23
SFY02040-1.6	20	40	3.175	39	62	13	10	48	50	41	5.5	M6	0.8x2	653	1597	15
SFY02040-3.6		40	3.175	39	62	13	10	88	50	41	5.5	M6	1.8x2	1311	3592	30
SFY02550-1.6	25	50	3.969	47	74	15	12	58	60	49	6.6	M6	0.8x2	976	2495	19
SFY02550-3.6		50	3.969	47	74	15	12	108	60	49	6.6	M6	1.8x2	1960	5614	32
SFY03264-1.6	32	64	4.762	58	92	17	12	71	74	60	9	M6	0.8x2	1374	3571	22
SFY03264-3.6		64	4.762	58	92	17	12	135	74	60	9	M6	1.8x2	2759	8441	46
SFY04080-1.6	40	80	6.35	73	114	19.5	15	90	93	75	11	M6	0.8x2	2273	6387	29
SFY04080-3.6		80	6.35	73	114	19.5	15	170	93	75	11	M6	1.8x2	4566	14370	50
SFY(050100-1.6	50	100	7.938	90	135	21.5	20	111	112	92	14	M6	0.8x2	3398	9980	35
SFY(050100-3.6		100	7.938	90	135	21.5	20	211	112	92	14	M6	1.8x2	6824	22455	72

Precision Ground Ball Screw Series

ST — SFS series specification and size table

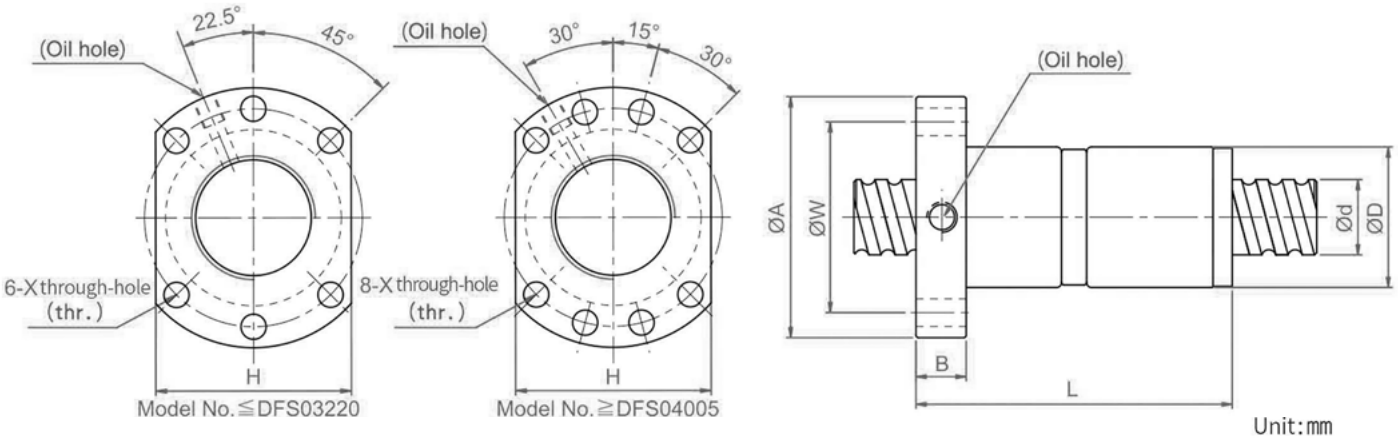


Unit:mm

Model No.	d	l	Da	Nut size									Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	W	H	X	Q	n			
SFS01205-2.8	12	5	2.5	24	40	10	31	32	30	4.5		2.8x1	661	1316	19
SFS01210-2.8		10	2.5	24	40	10	48.5	32	30	4.5		2.8x1	642	1287	19
SFS01605-3.8	15	5	2.778	28	48	10	38	38	40	5.5	M6	3.8x1	1112	2507	30
SFS01610-2.8		10	2.778	28	48	10	47	38	40	5.5	M6	2.8x1	839	1821	23
SFS01616-1.8		16	2.778	28	48	10	45	38	40	5.5	M6	1.8x1	552	1137	14
SFS01616-2.8		16	2.778	28	48	10	61	38	40	5.5	M6	2.8x1	808	1769	22
SFS01620-1.8		20	2.778	28	48	10	57	38	40	5.5	M6	1.8x1	554	1170	14
SFS02005-3.8	20	5	3.175	36	58	10	40	47	44	6.6	M6	3.8x1	1484	3681	37
SFS02010-3.8		10	3.175	36	58	10	60	47	44	6.6	M6	3.8x1	1516	3833	40
SFS02020-1.8		20	3.175	36	58	10	57	47	44	6.6	M6	1.8x1	764	1758	19
SFS02020-2.8		20	3.175	36	58	10	77	47	44	6.6	M6	2.8x1	1118	2734	29
SFS02505-3.8	25	5	3.175	40	62	10	40	51	48	6.6	M6	3.8x1	1650	4658	43
SFS02510-3.8		10	3.175	40	62	12	62	51	48	6.6	M6	3.8x1	1638	4633	45
SFS02525-1.8		25	3.175	40	62	12	70	51	48	6.6	M6	1.8x1	843	2199	22
SFS02525-2.8		25	3.175	40	62	12	95	51	48	6.6	M6	2.8x1	1232	3421	34
SFS03205-3.8	32	5	3.175	50	80	12	42	65	62	9	M6	3.8x1	1839	6026	51
SFS03210-3.8	31	10	3.969	50	80	13	62	65	62	9	M6	3.8x1	2460	7255	55
SFS03220-2.8		20	3.969	50	80	12	80	65	62	9	M6	2.8x1	1907	5482	43
SFS03232-1.8		32	3.969	50	80	13	84	65	62	9	M6	1.8x1	1257	3426	27
SFS03232-2.8		32	3.969	50	80	13	116	65	62	9	M6	2.8x1	1838	5329	42
SFS04005-3.8	40	5	3.175	63	93	15	45	78	70	9	M8	3.8x1	2018	7589	60
SFS04010-3.8	38	10	6.35	63	93	14	63	78	70	9	M8	3.8x1	5035	13943	67
SFS04020-2.8		20	6.35	63	93	14	82	78	70	9	M8	2.8x1	3959	10715	54
SFS04040-1.8		40	6.35	63	93	15	105	78	70	9	M8	1.8x1	2585	6648	34
SFS04040-2.8		40	6.35	63	93	15	145	78	70	9	M8	2.8x1	3780	10341	52
SFS05005-3.8	50	5	3.175	75	110	15	45	93	85	11	M8	3.8x1	2207	9542	68
SFS05010-3.8	48	10	6.35	75	110	18	68	93	85	11	M8	3.8x1	5638	17852	79
SFS05020-3.8		20	6.35	75	110	18	108	93	85	11	M8	3.8x1	5749	18485	87
SFS05050-1.8		50	6.35	75	110	18	125	93	85	11	M8	1.8x1	2946	8749	42
SFS05050-2.8		50	6.35	75	110	18	175	93	85	11	M8	2.8x1	4308	13610	65

Precision Ground Ball Screw Series

ST — DFS series specification and size table

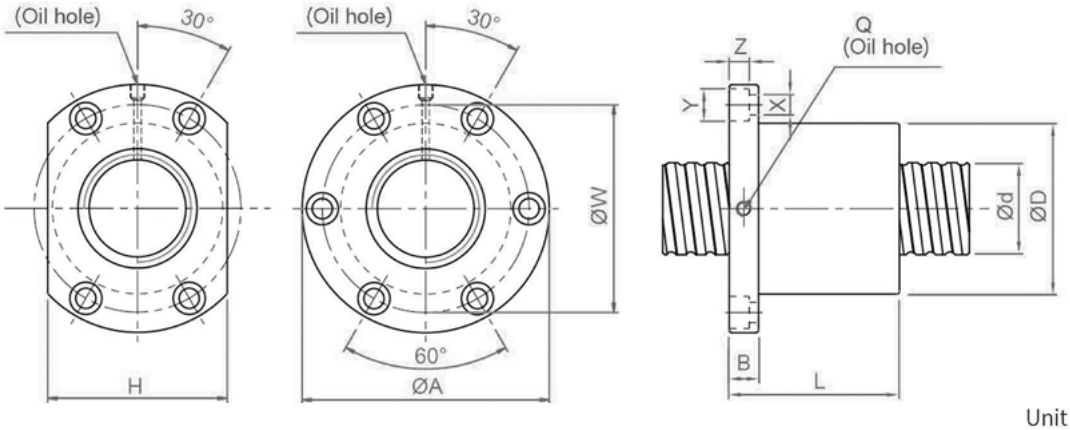


Unit: mm

Model No.	d	l	Da	Nut size									Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	W	H	X	Q	n			
DFSC01605-3.8	15	5	2.778	28	48	10	73	38	40	5.5	M6	3.8x1	1112	2507	41
DFSC01610-2.8		10	2.778	28	48	10	97	38	40	5.5	M6	2.8x1	839	1821	31
DFSC02005-3.8	20	5	3.175	36	58	10	75	47	44	6.6	M6	3.8x1	1484	3681	50
DFSC02010-3.8		10	3.175	36	58	10	120	47	44	6.6	M6	3.8x1	1516	3833	53
DFSC02505-3.8	25	5	3.175	40	62	10	75	51	48	6.6	M6	3.8x1	1650	4658	59
DFSC02510-3.8		10	3.175	40	62	12	122	51	48	6.6	M6	3.8x1	1638	4633	61
DFSC03205-3.8	32	5	3.175	50	80	12	82	65	62	9	M6	3.8x1	1839	6026	71
DFSC03210-3.8	31	10	3.969	50	80	13	122	65	62	9	M6	3.8x1	2460	7255	75
DFSC03220-2.8		20	3.969	50	80	12	160	65	62	9	M6	2.8x1	1907	5482	58
DFSC04005-3.8	40	5	3.175	63	93	15	85	78	70	9	M8	3.8x1	2018	7589	83
DFSC04010-3.8	38	10	6.35	63	93	14	123	78	70	9	M8	3.8x1	5035	13943	91
DFSC04020-2.8		20	6.35	63	93	14	162	78	70	9	M8	2.8x1	3959	10715	73
DFSC05005-3.8	50	5	3.175	75	110	15	85	93	85	11	M8	3.8x1	2207	9542	96
DFSC05010-3.8	48	10	6.35	75	110	18	138	93	85	11	M8	3.8x1	5638	17852	109
DFSC05020-3.8		20	6.35	75	110	18	218	93	85	11	M8	3.8x1	5749	18485	116

Precision Ground Ball Screw Series

ST — SFV series specification and size table

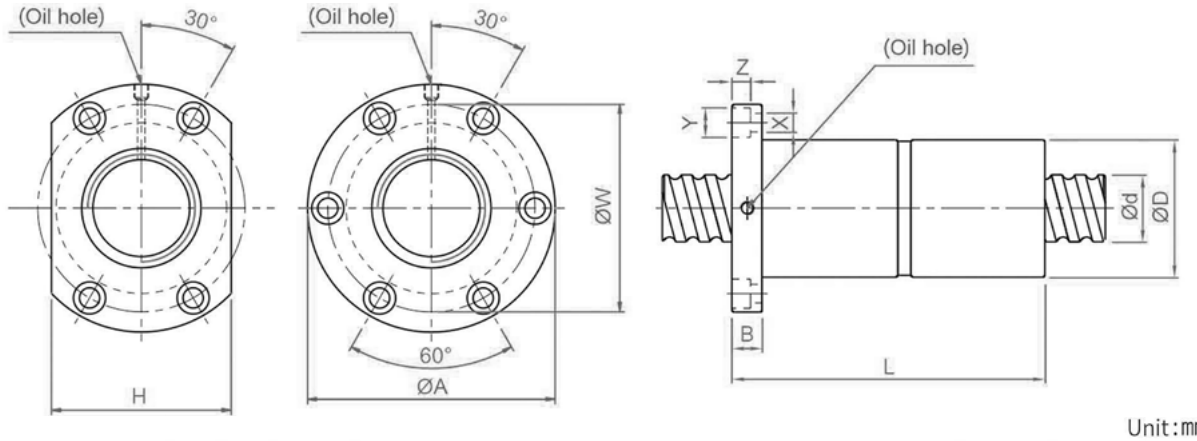


Unit : mm

Model No.	d	l	Da	Nut size											Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	W	H	X	Y	Z	Q	n			
SFV01205-2.8	12	5	2.5	30	50	10	42	40	32	4.5	8	4.5	M6	2.8x1	661	1316	19
SFV01210-2.7		10	2.5	30	50	10	53	40	32	4.5	8	4.5	M6	2.7x1	623	1241	18
SFV01510-2.7	15	10	3.175	34	58	10	57	45	34	5.5	9.5	5.5	M6	2.7x1	972	2020	23
SFV01604-3.8	16	4	2.381	34	57	11	45	45	34	5.5	9.5	5.5	M6	3.8x1	931	2285	31
SFV01605-4.8		5	3.175	40	63	11	58	51	42	5.5	9.5	5.5	M6	4.8x1	1614	3662	40
SFV01610-2.7		10	3.175	40	63	11	56	51	42	5.5	9.5	5.5	M6	2.7x1	1008	2161	24
SFV02004-4.8	20	4	2.381	40	60	10	50	50	40	4.5	8	4	M6	4.8x1	1247	3584	45
SFV02005-4.8		5	3.175	44	67	11	57	55	52	5.5	9.5	5.5	M6	4.8x1	1814	4650	47
SFV02010-2.7		10	3.969	46	74	13	57	59	46	6.6	11	6.5	M6	2.7x1	1518	3398	30
SFV02020-1.8		20	3.175	46	74	13	70	59	46	6.6	11	6.5	M6	1.8x1	764	1758	19
SFV02505-4.8	25	5	3.175	50	73	11	55	61	52	5.5	9.5	5.5	M8	4.8x1	2017	5884	56
SFV02506-4.8		6	3.969	53	76	11	62	64	58	5.5	9.5	5.5	M6	4.8x1	2711	7268	58
SFV02508-4.8		8	4.762	56	85	13	70	71	64	6.5	11	6.5	M6	4.8x1	3466	8776	61
SFV02510-2.7		10	6.35	68	102	15	70	84	82	9	14	8.5	M8	2.7x1	3040	6547	37
SFV02525-1.8		25	3.175	50	73	13	83	61	52	5.5	9.5	5.5	M8	1.8x1	843	2199	22
SFV03204-4.8	32	4	2.381	54	81	12	50	67	64	6.6	11	6.5	M6	4.8x1	1517	5806	62
SFV03205-4.8		5	3.175	58	85	12	56	71	64	6.6	11	6.5	M8	4.8x1	2249	7612	66
SFV03206-4.8		6	3.969	62	89	12	60	75	68	6.6	11	6.5	M8	4.8x1	3079	9575	70
SFV03208-4.8		8	4.762	66	100	15	75	82	76	9	14	8.5	M8	4.8x1	3962	11547	74
SFV03210-4.8		10	6.35	74	108	15	96	90	82	9	14	9	M8	4.8x1	5620	14649	76
SFV03220-2.7		20	6.35	74	108	16	100	90	82	9	14	8.5	M8	2.7x1	3509	8644	46
SFV04005-4.8	40	5	3.175	67	101	15	59	83	72	9	14	8.5	M8	4.8x1	2468	9586	76
SFV04010-4.8		10	6.35	82	124	18	100	102	94	11	17.5	11	M8	4.8x1	6316	18600	90
SFV04020-2.7		20	6.35	82	124	18	100	102	90	11	17.5	11	M8	2.7x1	3935	10893	56
SFV05005-4.8	50	5	3.175	80	114	15	60	96	82	9	14	8.5	M8	4.8x1	2698	12053	87
SFV05010-4.8		10	6.35	93	135	16	93	113	98	11	17.5	11	M8	4.8x1	7023	23537	106
SFV05020-2.7		20	9.525	105	152	28	121	128	110	14	20	13	M8	2.7x1	7336	19700	68
SFV06310-4.8	63	10	6.35	108	154	22	105	130	110	14	20	13	M8	4.8x1	7860	30430	126
SFV06320-2.7		20	9.525	122	180	28	120	150	130	18	26	17.5	M8	2.7x1	8162	24741	80
SFV08010-4.8	80	10	6.35	130	176	22	105	152	132	14	20	13	M8	4.8x1	8593	38344	145
SFV08020-4.8		20	9.525	143	204	28	180	172	148	18	26	18	M8	4.8x1	15103	57296	168
SFV08020-7.6		20	9.525	143	204	28	240	172	148	18	26	18	M8	3.8x2	22423	90719	260

Precision Ground Ball Screw Series

ST — DFV series specification and size table

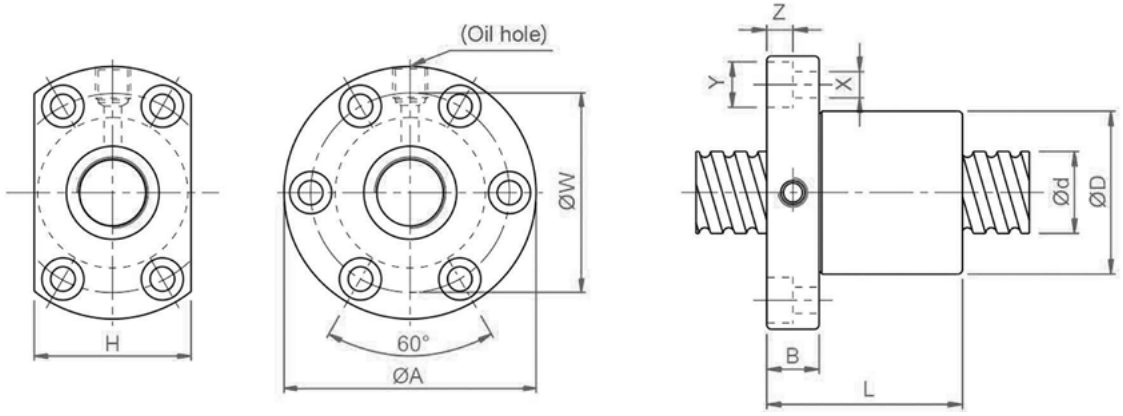


Unit:mm

Model No.	d	l	Da	Nut size											Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	W	H	X	Y	Z	Q	n			
DFV01510-2.7	15	10	3.175	34	58	10	107	45	34	5.5	9.5	5.5	M6	2.7x1	972	2020	30
DFV01604-3.8	16	4	2.381	34	57	11	89	45	34	5.5	9.5	5.5	M6	3.8x1	931	2285	42
DFV01605-4.8		5	3.175	40	63	11	113	51	42	5.5	9.5	5.5	M6	4.8x1	1614	3662	53
DFV01610-2.7		10	3.175	40	63	11	106	51	42	5.5	9.5	5.5	M6	2.7x1	1008	2161	32
DFV02004-4.8	20	4	2.381	40	60	10	94	50	40	4.5	8	4	M6	4.8x1	1247	3584	61
DFV02005-4.8		5	3.175	44	67	11	112	55	52	5.5	9.5	5.5	M6	4.8x1	1814	4650	63
DFV02010-2.7		10	3.969	46	74	13	117	59	46	6.6	11	6.5	M6	2.7x1	1518	3398	40
DFV02505-4.8	25	5	3.175	50	73	11	105	61	52	5.5	9.5	5.5	M8	4.8x1	2017	5884	75
DFV02506-4.8		6	3.969	53	76	11	116	64	58	5.5	9.5	5.5	M6	4.8x1	2711	7268	78
DFV02508-4.8		8	4.762	56	85	13	134	71	64	6.5	11	6.5	M6	4.8x1	3466	8776	82
DFV02510-2.7		10	6.35	68	102	15	130	84	82	9	14	8.5	M8	2.7x1	3040	6547	49
DFV03204-4.8	32	4	2.381	54	81	12	94	67	64	6.6	11	6.5	M6	4.8x1	1517	5806	85
DFV03205-4.8		5	3.175	58	85	12	106	71	64	6.6	11	6.5	M8	4.8x1	2249	7612	90
DFV03206-4.8		6	3.969	62	89	12	114	75	68	6.6	11	6.5	M8	4.8x1	3079	9575	95
DFV03208-4.8		8	4.762	66	100	15	139	82	76	9	14	8.5	M8	4.8x1	3962	11547	100
DFV03210-4.8		10	6.35	74	108	15	186	90	82	9	14	9	M8	4.8x1	5620	14649	101
DFV03220-2.7		20	6.35	74	108	16	200	90	82	9	14	8.5	M8	2.7x1	3509	8644	61
DFV04005-4.8	40	5	3.175	67	101	15	109	83	72	9	14	8.5	M8	4.8x1	2468	9586	105
DFV04010-4.8		10	6.35	82	124	18	188	102	94	11	17.5	11	M8	4.8x1	6316	18600	121
DFV04020-2.7		20	6.35	82	124	18	200	102	90	11	17.5	11	M8	2.7x1	3935	10893	74
DFV05005-4.8	50	5	3.175	80	114	15	115	96	82	9	14	8.5	M8	4.8x1	2698	12053	122
DFV05010-4.8		10	6.35	93	135	16	173	113	98	11	17.5	11	M8	4.8x1	7023	23537	144
DFV05020-2.7		20	9.525	105	152	28	221	128	110	14	20	13	M8	2.7x1	7336	19700	90
DFV06310-4.8	63	10	6.35	108	154	22	195	130	110	14	20	13	M8	4.8x1	7860	30430	172
DFV06320-2.7		20	9.525	122	180	28	220	150	130	18	26	17.5	M8	2.7x1	8162	24741	107
DFV08010-4.8	80	10	6.35	130	176	22	195	152	132	14	20	13	M8	4.8x1	8593	38344	201
DFV08020-4.8		20	9.525	143	204	28	340	172	148	18	26	18	M8	4.8x1	15103	57296	226
DFV08020-7.6		20	9.525	143	204	28	460	172	148	18	26	18	M8	3.8x2	22423	90719	351

Precision Ground Ball Screw Series

ST — SFI series specification and size table

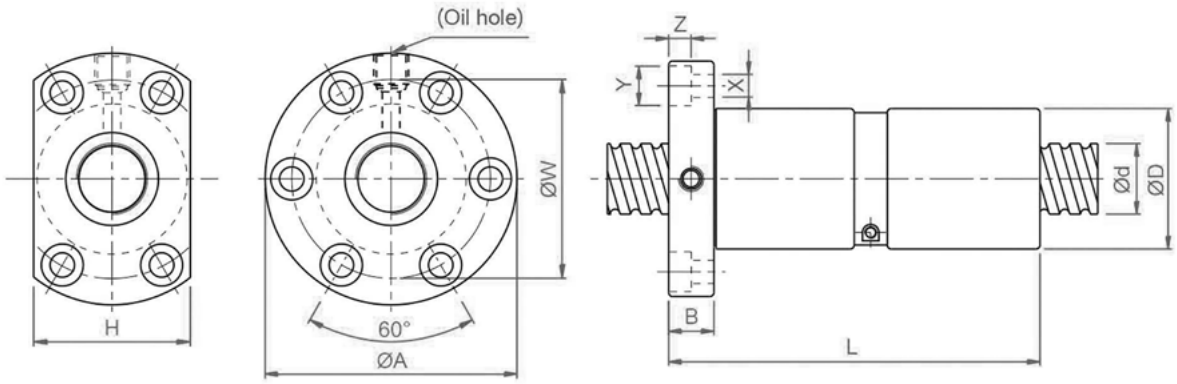


Unit:mm

Model No.	d	l	Da	Nut size											Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	W	H	X	Y	Z	Q	n			
SFI01604-4	16	4	2.381	30	49	10	45	39	34	4.5	8	4.5	M6	1x4	973	2406	32
SFI01605-4		5	3.175	30	49	10	50	39	34	4.5	8	4.5	M6	1x4	1380	3052	33
SFI01610-3		10	3.175	34	58	10	57	45	34	5.5	9.5	5.5	M6	1x3	1103	2401	27
SFI02004-4	20	4	2.381	34	57	11	46	45	40	5.5	9.5	5.5	M6	1x4	1066	2987	37
SFI02005-4		5	3.175	34	57	11	51	45	40	5.5	9.5	5.5	M6	1x4	1551	3875	39
SFI0205T-4		5.08	3.175	34	57	11	51	45	40	5.5	9.5	5.5	M6	1x4	1550	3875	39
SFI02504-4	25	4	2.381	40	63	11	46	51	46	5.5	9.5	5.5	M6	1x4	1180	3795	43
SFI02505-4		5	3.175	40	63	11	51	51	46	5.5	9.5	5.5	M8	1x4	1724	4904	45
SFI0255T-4		5.08	3.175	40	63	11	51	51	46	5.5	9.5	5.5	M8	1x4	1724	4904	45
SFI02510-4		10	4.762	46	72	12	85	58	52	6.5	11	6.5	M6	1x4	2954	7295	51
SFI03204-4	32	4	2.381	46	72	12	47	58	52	6.5	11	6.5	M6	1x4	1296	4838	49
SFI03205-4		5	3.175	46	72	12	52	58	52	6.5	11	6.5	M8	1x4	1922	6343	52
SFI03210-4		10	6.35	54	88	15	90	70	62	9	14	8.5	M8	1x4	4805	12208	62
SFI04005-4	40	5	3.175	56	90	15	55	72	64	9	14	8.5	M8	1x4	2110	7988	59
SFI04010-4		10	6.35	62	104	18	93	82	70	11	17.5	11	M8	1x4	5399	15500	72
SFI05010-4	50	10	6.35	72	114	18	93	92	82	11	17.5	11	M8	1x4	6004	19614	83
SFI06310-4	63	10	6.35	85	131	22	98	107	95	14	20	13	M8	1x4	6719	25358	95
SFI08010-4	80	10	6.35	105	150	22	98	127	115	14	20	13	M8	1x4	7346	31953	109

Precision Ground Ball Screw Series

ST — DFI series specification and size table



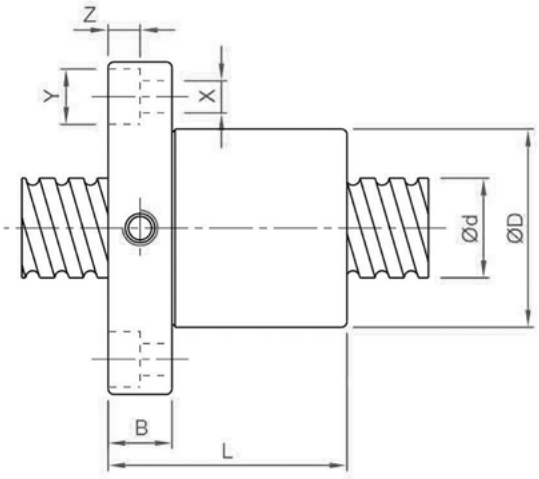
Unit : mm

Model No.	d	l	Da	Nut size											Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	W	H	X	Y	Z	Q	n			
DFI(01604-4	16	4	2.381	30	49	10	80	39	34	4.5	8	4.5	M6	1x4	973	2406	44
DFI(01605-4		5	3.175	30	49	10	100	39	34	4.5	8	4.5	M6	1x4	1380	3052	44
DFI(02004-4	20	4	2.381	34	57	11	80	45	40	5.5	9.5	5.5	M6	1x4	1066	2987	51
DFI(02005-4		5	3.175	34	57	11	101	45	40	5.5	9.5	5.5	M6	1x4	1551	3875	52
DFI(02504-4	25	4	2.381	40	63	11	80	51	46	5.5	9.5	5.5	M6	1x4	1180	3795	60
DFI(02505-4		5	3.175	40	63	11	101	51	46	5.5	9.5	5.5	M8	1x4	1724	4094	62
DFI(0255T-4		5.08	3.175	40	63	11	101	51	46	5.5	9.5	5.5	M8	1x4	1724	4094	62
DFI(02510-4		10	4.762	46	72	12	145	58	52	6.5	11	6.5	M6	1x4	2954	7295	68
DFI(03204-4	32	4	2.381	46	72	12	80	58	52	6.5	11	6.5	M6	1x4	1296	4838	69
DFI(03205-4		5	3.175	46	72	12	102	58	52	6.5	11	6.5	M8	1x4	1922	6343	72
DFI(0325T-4		5.08	3.175	46	72	12	102	58	52	6.5	11	6.5	M8	1x4	1922	6343	72
DFI(03210-4		10	6.35	54	88	15	162	70	62	9	14	8.5	M8	1x4	4805	12208	83
DFI(04005-4	40	5	3.175	56	90	15	105	72	64	9	14	8.5	M8	1x4	2110	7988	84
DFI(04010-4		10	6.35	62	104	18	165	82	70	11	17.5	11	M8	1x4	5399	15500	99
DFI(05010-4	50	10	6.35	72	114	18	171	92	82	11	17.5	11	M8	1x4	6004	19614	115
DFI(06310-4	63	10	6.35	85	131	22	182	107	95	14	20	13	M8	1x4	6719	25358	135
DFI(08010-4	80	10	6.35	105	150	22	182	127	115	14	20	13	M8	1x4	7346	31953	156

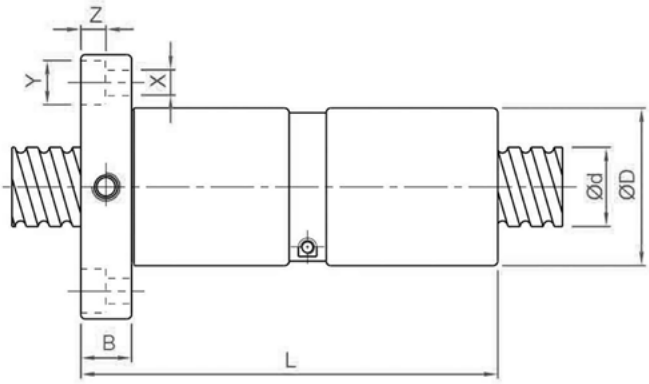
Precision Ground Ball Screw Series

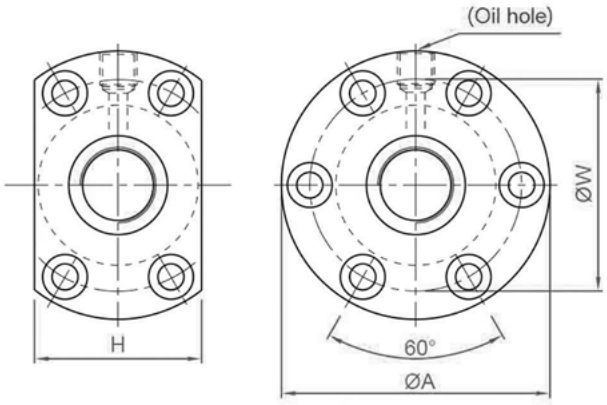
ST — SFM/DFM series specification and size table

(Special for milling machines)



(Special for milling machines)



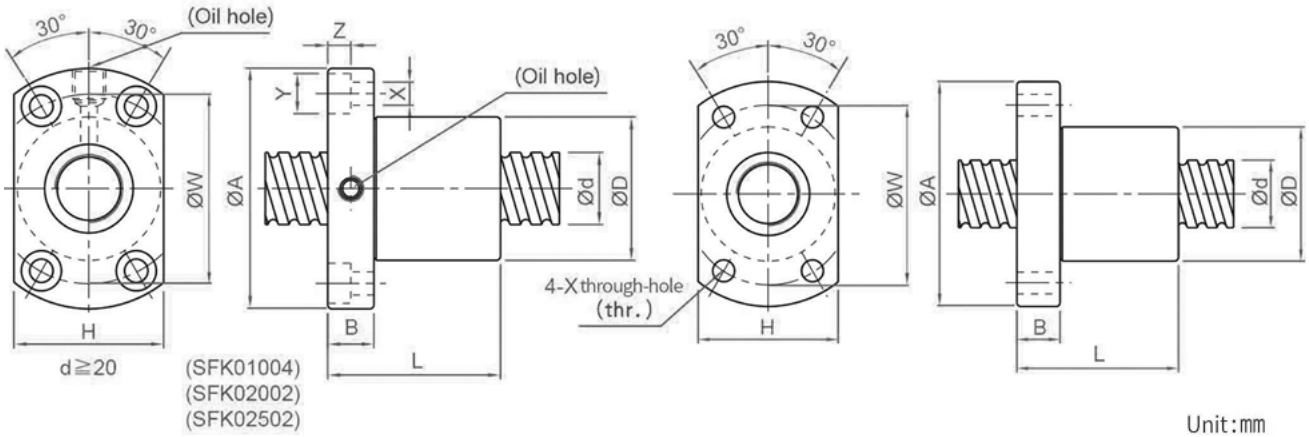


Unit:mm

Model No.	d	l	Da	Nut size											Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	W	H	X	Y	Z	Q	n			
SFM003205-4	32	5	3.175	48	74	12	52	60	60	6.5	11	6.5	M8	1x4	1922	6343	53
SFM00325T-4		5.08	3.175	48	74	12	53	60	60	6.5	11	6.5	M8	1x4	1922	6343	53
DFM003205-4	32	5	3.175	48	74	12	102	60	60	6.5	11	6.5	M8	1x4	1922	6343	73
DFM00325T-4		5.08	3.175	48	74	12	104	60	60	6.5	11	6.5	M8	1x4	1922	6343	73

Precision Ground Ball Screw Series

ST — SFK series specification and size table



Unit:mm

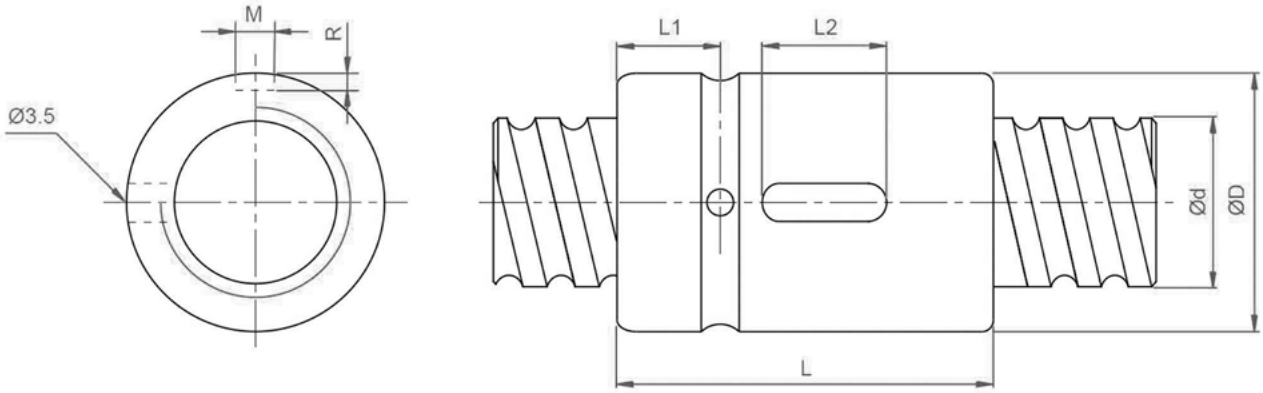
Model No.	d	l	Da	Nut size											Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	W	H	X	Y	Z	Q	n			
SFK00401	4	1	0.8	10	20	3	12	15	14	2.9	—	—	—	1x2	64	97	5
SFK00601	6	1	0.8	12	24	3.5	15	18	16	3.4	—	—	—	1x3	111	224	9
SFK00801	8	1	0.8	14	27	4	16	21	18	3.4	—	—	—	1x4	161	403	14
SFK00802		2	1.2	14	27	4	16	21	18	3.4	—	—	—	1x3	222	458	13
SFK0082.5		2.5	1.2	16	29	4	26	23	20	3.4	—	—	—	1x3	221	457	13
SFK01002	10	2	1.2	18	35	5	28	27	22	4.5	—	—	—	1x3	243	569	15
SFK01004		4	2	26	46	10	34	36	28	4.5	8	4.5	M6	1x3	468	905	17
SFK01202	12	2	1.2	20	37	5	28	29	24	4.5	—	—	—	1x4	334	906	22
SFK01402	14	2	1.2	21	40	6	23	31	26	5.5	—	—	—	1x4	354	1053	24
SFK01602	16	2	1.2	25	43	10	40	35	29	5.5	—	—	M6	1x4	373	1200	26
SFK02002	20	2	1.2	50	80	15	55	65	68	6.5	10.5	6	M6	1x6	581	2284	48
SFK02502	25	2	1.2	50	80	13	43	65	68	6.5	10.5	6	M6	1x5	540	2381	46

Unit:mm

Model No.	d	l	Da	Nut size											Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	W	H	X	Y	Z	Q	n			
XSUR01204T3D-02	12	4	2.5	24	40	6	28	32	25	3.5	—	—	—	1x3	454	722	—
XSUR01205T3D-00		5	2.5	22	37	8	39	29	24	4.5	—	—	—	1x3	675	1316	17

Precision Ground Ball Screw Series

ST — SCI series specification and size table

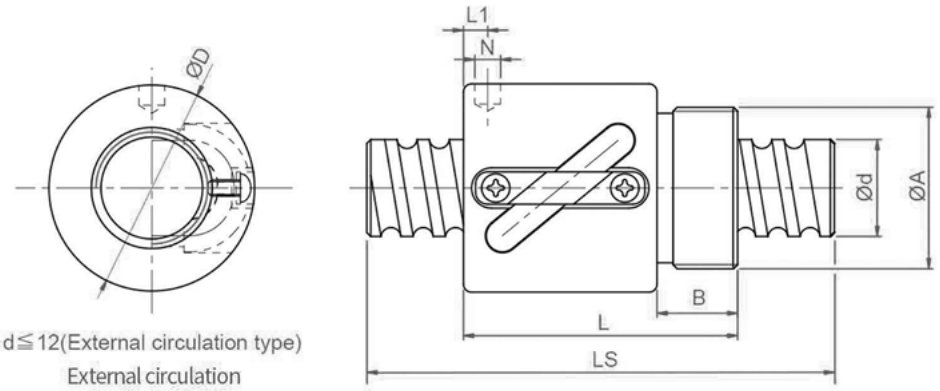


Unit : mm

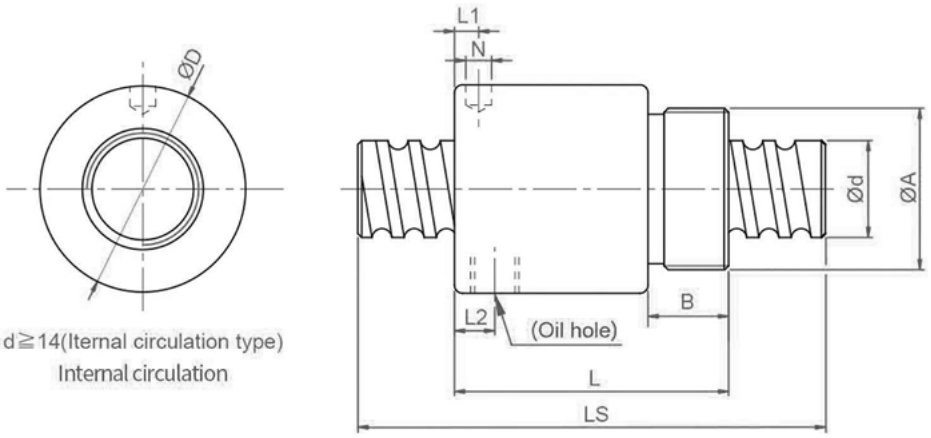
Model No.	d	l	Da	Nut size							Load Rating Ca	Load Rating Coa	K kgf/μm
				D	L	L1	L2	M	R	n			
SCI01604-4	16	4	2.381	30	40	9	15	3	1.5	1x4	973	2406	32
SCI01605-4		5	3.175	30	45	9	20	5	3	1x4	1380	3052	33
SCI02004-4	20	4	2.381	34	40	9	15	3	1.5	1x4	1066	2987	37
SCI02005-4		5	3.175	34	45	9	20	5	3	1x4	1551	3875	39
SCI02504-4	25	4	2.381	40	40	9	15	3	1.5	1x4	1180	3795	43
SCI02505-4		5	3.175	40	45	9	20	5	3	1x4	1724	4904	45
SCI02510-4		10	4.762	46	85	13	30	5	3	1x4	2954	7295	51
SCI03204-4	32	4	2.381	46	40	9	15	3	1.5	1x4	1296	4838	49
SCI03205-4		5	3.175	46	45	9	20	5	3	1x4	1922	6343	52
SCI03210-4		10	6.35	54	85	13	30	5	3	1x4	4805	12208	62
SCI04005-4	40	5	3.175	56	45	9	20	5	3	1x4	2110	7988	59
SCI04010-4		10	6.35	62	85	13	30	5	3	1x4	5399	15500	72
SCI05010-4	50	10	6.35	72	85	13	30	5	3	1x4	6004	19614	83
SCI06310-4	63	10	6.35	85	85	13	30	6	3.5	1x4	6719	25358	95
SCI08010-4	80	10	6.35	105	85	13	30	8	4.5	1x4	7346	31953	109

Precision Ground Ball Screw Series

ST — BSH series specification and size table



d≦12(External circulation type)
External circulation



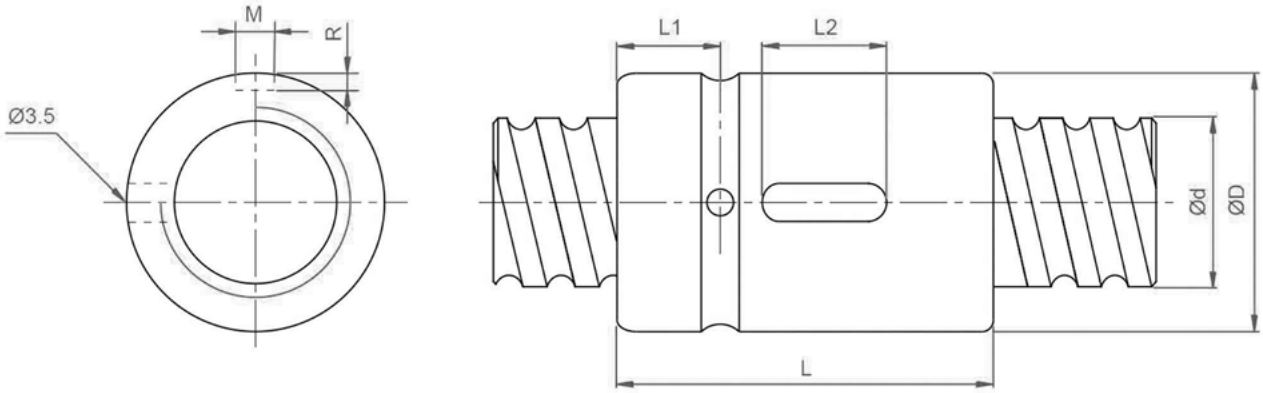
d≧14(Iternal circulation type)
Internal circulation

Unit:mm

Model No.	d	l	Da	Nut size									Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	L1	N	L2	Q	n			
BSHR0082.5-2.5	8	2.5	1.2	17.5	M15x1P	7.5	23.5	10	3	—	—	2.5x1	189	381	11
BSHR01002-3.5	10	2	1.2	19.5	M17x1P	7.5	22	3	3.2	—	—	3.5x1	277	664	17
BSHR01004-2.5		4	2	25	M20x1P	10	34	3	3	—	—	2.5x1	400	754	14
BSHR01204-3.5	12	4	2.5	25.5	M20x1P	10	34	13	3	—	—	3.5x1	804	1649	23
BSHR01205-3.5		5	2.5	25.5	M20x1P	10	39	16.25	3	—	—	3.5x1	801	1644	24
BSHR01404-3	14	4	2.5	32.1	M25x1.5P	10	35	11	3	—	—	1x3	748	1609	26
BSHR01604-3	16	4	2.381	29	M22x1.5P	8	32	4	3.2	—	—	1x3	759	1804	24
BSHR01605-3		5	3.175	32.5	M26x1.5P	12	42	19.25	3	—	—	1x3	1077	2289	25
BSHR01610-2		10	3.175	32	M26x1.5P	12	50	3	4	3	M4	1x2	675	1316	14
BSHR02005-3	20	5	3.175	38	M35x1.5P	15	45	20.3	3	—	—	1x3	1211	2906	30
BSHR02505-4	25	5	3.175	43	M40x1.5P	19	69	32.11	3	8	M6	1x4	1724	4904	37
BSHR02510-4		10	4.762	43	M40x1.5P	19	84	8	6	8	M6	1x4	2954	7295	41

Precision Ground Ball Screw Series

ST — SFM/DFM series specification and table

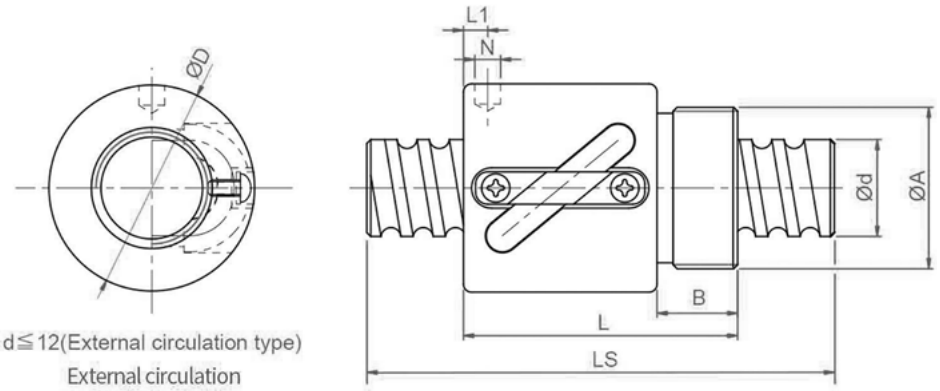


Unit : mm

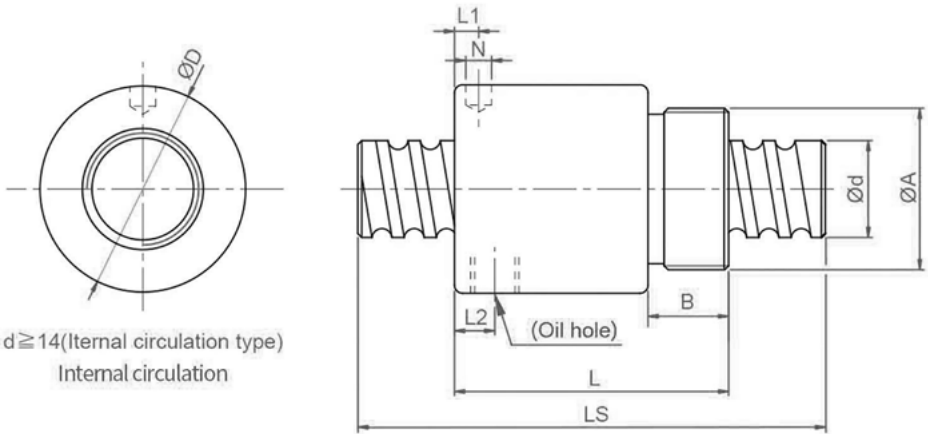
Model No.	d	l	Da	Nut size							Load Rating Ca	Load Rating Coa	K kgf/μm
				D	L	L1	L2	M	R	n			
SCI01604-4	16	4	2.381	30	40	9	15	3	1.5	1x4	973	2406	32
SCI01605-4		5	3.175	30	45	9	20	5	3	1x4	1380	3052	33
SCI02004-4	20	4	2.381	34	40	9	15	3	1.5	1x4	1066	2987	37
SCI02005-4		5	3.175	34	45	9	20	5	3	1x4	1551	3875	39
SCI02504-4	25	4	2.381	40	40	9	15	3	1.5	1x4	1180	3795	43
SCI02505-4		5	3.175	40	45	9	20	5	3	1x4	1724	4904	45
SCI02510-4		10	4.762	46	85	13	30	5	3	1x4	2954	7295	51
SCI03204-4	32	4	2.381	46	40	9	15	3	1.5	1x4	1296	4838	49
SCI03205-4		5	3.175	46	45	9	20	5	3	1x4	1922	6343	52
SCI03210-4		10	6.35	54	85	13	30	5	3	1x4	4805	12208	62
SCI04005-4	40	5	3.175	56	45	9	20	5	3	1x4	2110	7988	59
SCI04010-4		10	6.35	62	85	13	30	5	3	1x4	5399	15500	72
SCI05010-4	50	10	6.35	72	85	13	30	5	3	1x4	6004	19614	83
SCI06310-4	63	10	6.35	85	85	13	30	6	3.5	1x4	6719	25358	95
SCI08010-4	80	10	6.35	105	85	13	30	8	4.5	1x4	7346	31953	109

Precision Ground Ball Screw Series

ST — SFK series specification and table



d≦12(External circulation type)
External circulation



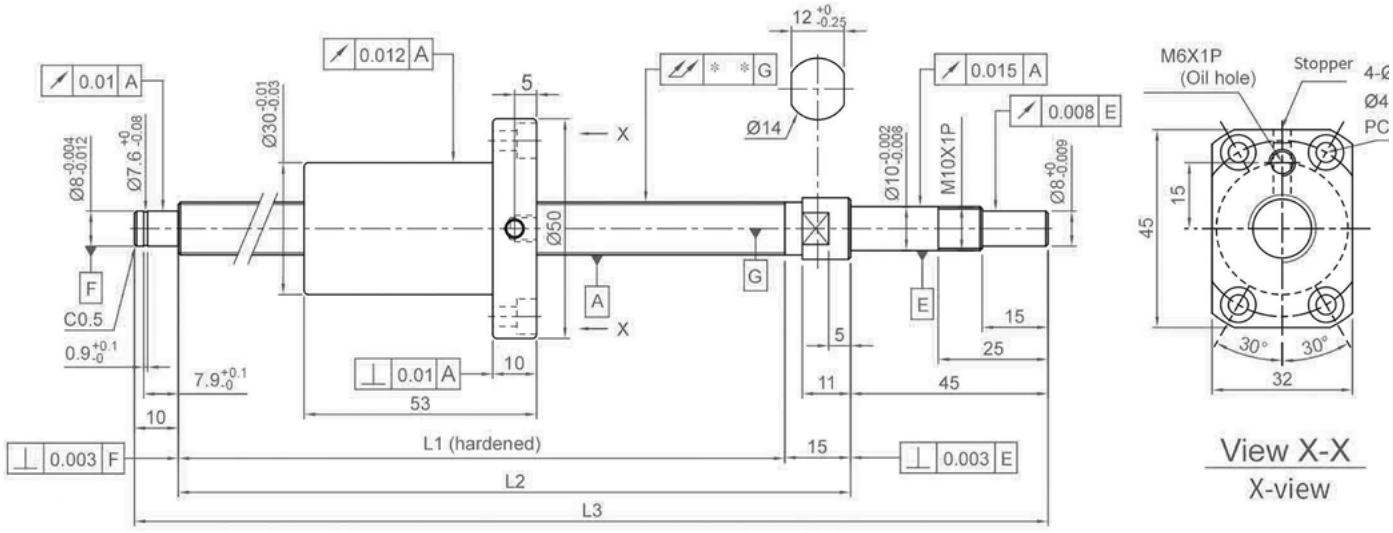
d≧14(Iternal circulation type)
Internal circulation

Unit:mm

Model No.	d	l	Da	Nut size									Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	L1	N	L2	Q	n			
BSHR0082.5-2.5	8	2.5	1.2	17.5	M15x1P	7.5	23.5	10	3	—	—	2.5x1	189	381	11
BSHR01002-3.5	10	2	1.2	19.5	M17x1P	7.5	22	3	3.2	—	—	3.5x1	277	664	17
BSHR01004-2.5		4	2	25	M20x1P	10	34	3	3	—	—	2.5x1	400	754	14
BSHR01204-3.5	12	4	2.5	25.5	M20x1P	10	34	13	3	—	—	3.5x1	804	1649	23
BSHR01205-3.5		5	2.5	25.5	M20x1P	10	39	16.25	3	—	—	3.5x1	801	1644	24
BSHR01404-3	14	4	2.5	32.1	M25x1.5P	10	35	11	3	—	—	1x3	748	1609	26
BSHR01604-3	16	4	2.381	29	M22x1.5P	8	32	4	3.2	—	—	1x3	759	1804	24
BSHR01605-3		5	3.175	32.5	M26x1.5P	12	42	19.25	3	—	—	1x3	1077	2289	25
BSHR01610-2		10	3.175	32	M26x1.5P	12	50	3	4	3	M4	1x2	675	1316	14
BSHR02005-3	20	5	3.175	38	M35x1.5P	15	45	20.3	3	—	—	1x3	1211	2906	30
BSHR02505-4	25	5	3.175	43	M40x1.5P	19	69	32.11	3	8	M6	1x4	1724	4904	37
BSHR02510-4		10	4.762	43	M40x1.5P	19	84	8	6	8	M6	1x4	2954	7295	41

Precision Ground Ball Screw Series

ST — XSVR 1210-01 (Grinding grade shaft end finished product)



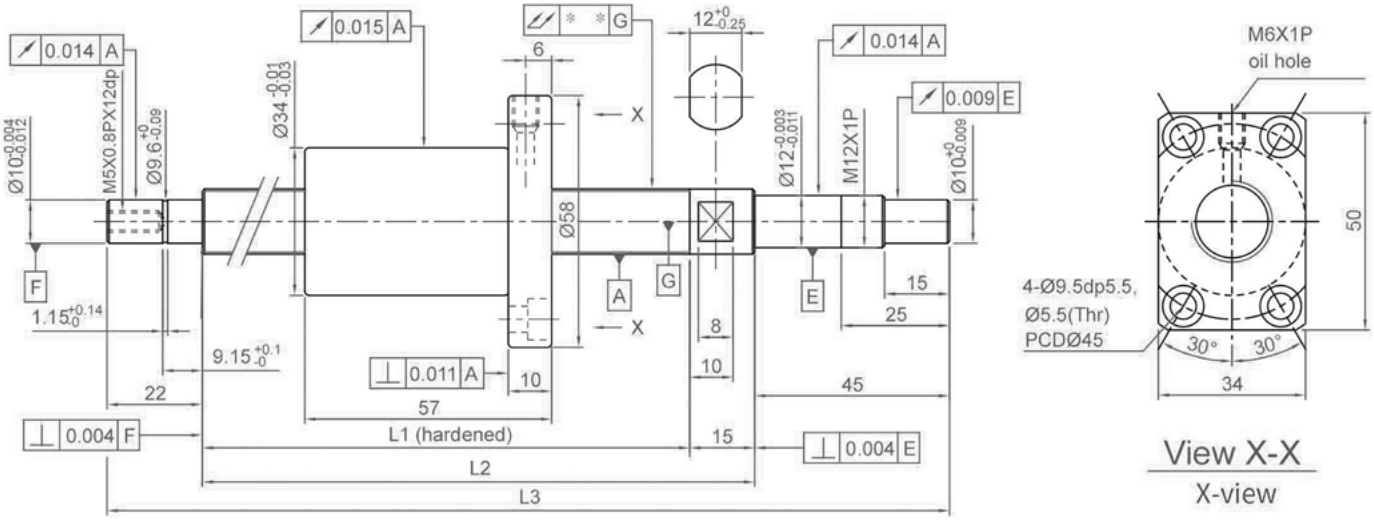
Unit : mm

Ball center	12.85
Ball diameter(mm)	2.5
Lead(mm)	10
No.of Turns	2.7x1
Lead Angle	13.91°
Threading Direction	R
Spring Force(kg)	0.1~0.2kg
Preload(kgf)	25kgf
Dynamic Load Rating Ca(kgf)	623
Static Load Rating Coa(kgf)	1241
Accuracy Grade	0.018

Travel Length (mm)	Model No.	Shaft Length(mm)			Slant of Axle Center
		L1	L2	L3	∠
100	XSVR01210B1DGC5-230-P1	160	175	230	0.035
150	XSVR01210B1DGC5-280-P1	210	225	280	0.035
250	XSVR01210B1DGC5-380-P1	310	325	380	0.050
350	XSVR01210B1DGC5-480-P1	410	425	480	0.060
450	XSVR01210B1DGC5-580-P1	510	525	580	0.075

Precision Ground Ball Screw Series

ST — XSVR 01510-00 (Grinding grade shaft end finished product)



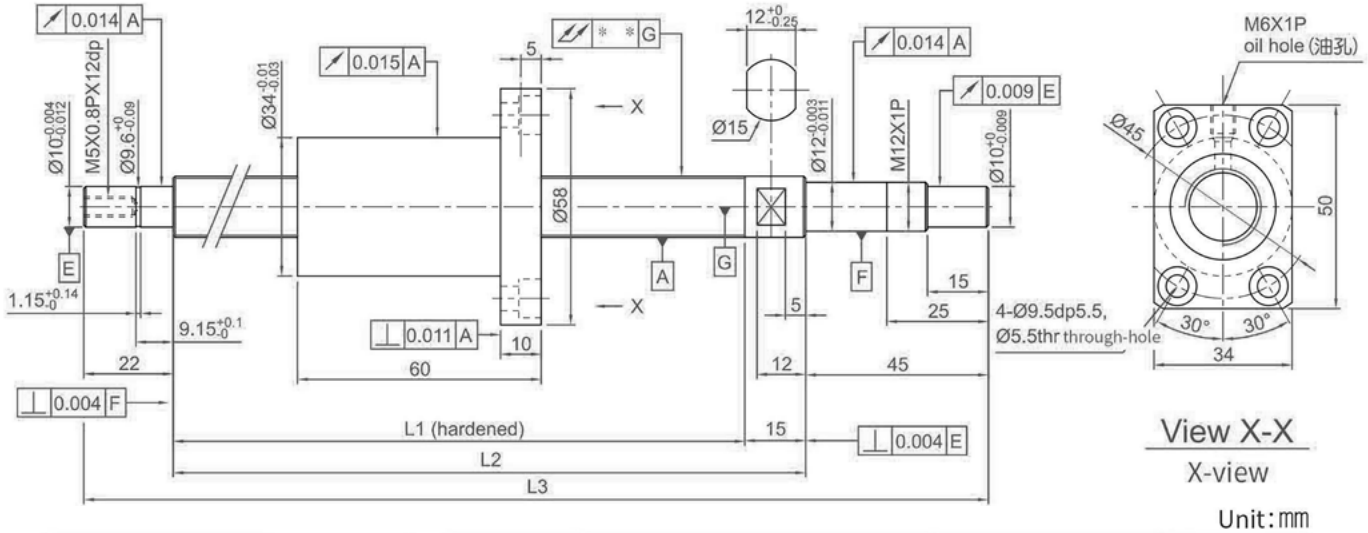
Unit : mm

Ball center	15.5
Ball diameter(mm)	3.175
Lead(mm)	10
No.of Turns	2.7x1
Lead Angle	11.6°
Threading Direction	R
Spring Force(kg)	0.1~0.3kg
Preload(kgf)	38kgf
Dynamic Load Rating Ca(kgf)	933
Static Load Rating Coa(kgf)	1885
Accuracy Grade	0.018

Travel Length (mm)	Model No.	Shaft Length(mm)			Slant of Axle Center
		L1	L2	L3	
100	XSVR01510B1DGC5-271-P1	189	204	271	0.025
150	XSVR01510B1DGC5-321-P1	239	254	321	0.035
200	XSVR01510B1DGC5-371-P1	289	304	371	0.035
250	XSVR01510B1DGC5-421-P1	339	354	421	0.040
300	XSVR01510B1DGC5-471-P1	389	404	471	0.040
350	XSVR01510B1DGC5-521-P1	439	454	521	0.050
400	XSVR01510B1DGC5-571-P1	489	504	571	0.050
450	XSVR01510B1DGC5-621-P1	539	554	621	0.050
500	XSVR01510B1DGC5-671-P1	589	604	671	0.065
550	XSVR01510B1DGC5-721-P1	639	654	721	0.065
600	XSVR01510B1DGC5-771-P1	689	704	771	0.065
700	XSVR01510B1DGC5-871-P1	789	804	871	0.085
800	XSVR01510B1DGC5-971-P1	889	904	971	0.085

Precision Ground Ball Screw Series

ST — XSVR 01520-01 (Grinding grade shaft end finished product)



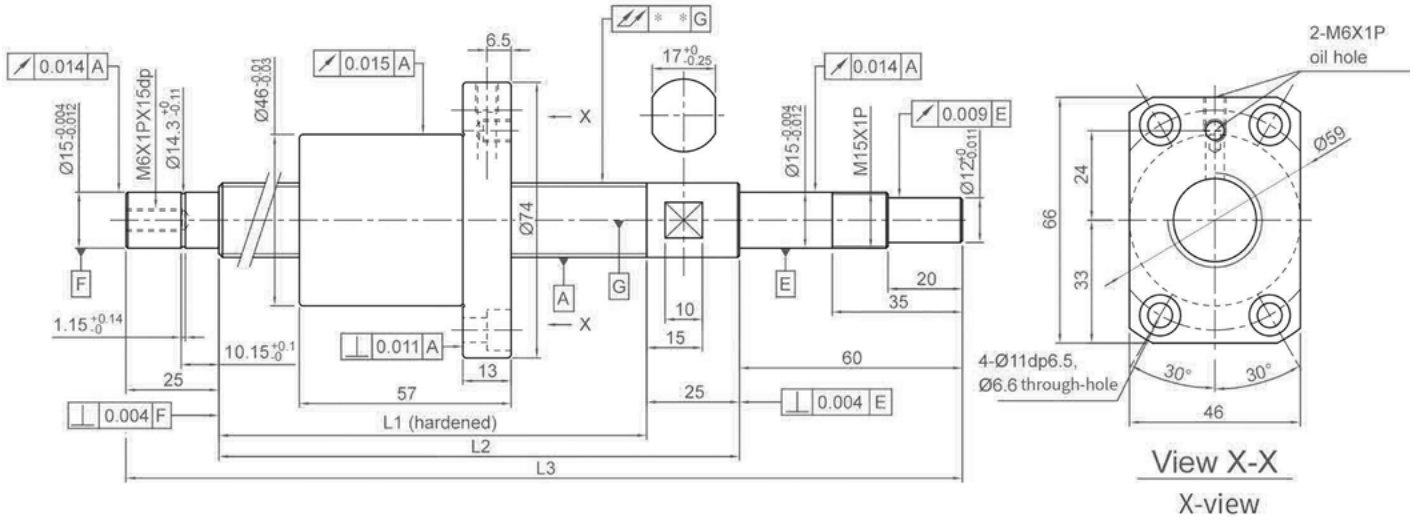
Unit: mm

Ball center	15.5
Ball diameter(mm)	3.175
Lead(mm)	20
No.of Turns	1.8x1
Lead Angle	22.33°
Threading Direction	R
Spring Force(kg)	0.1~0.3kg
Preload(kgf)	38kgf
Dynamic Load Rating Ca(kgf)	638
Static Load Rating Coa(kgf)	1266
Accuracy Grade	0.018

Travel Length (mm)	Model No.	Shaft Length(mm)			Slant of Axle Center
		L1	L2	L3	⫽
100	XSVR01520A1DGC5-271-P1	189	204	271	0.025
150	XSVR01520A1DGC5-321-P1	239	254	321	0.035
200	XSVR01520A1DGC5-371-P1	289	304	371	0.035
250	XSVR01520A1DGC5-421-P1	339	354	421	0.040
300	XSVR01520A1DGC5-471-P1	389	404	471	0.040
350	XSVR01520A1DGC5-521-P1	439	454	521	0.050
400	XSVR01520A1DGC5-571-P1	489	504	571	0.050
450	XSVR01520A1DGC5-621-P1	539	554	621	0.050
500	XSVR01520A1DGC5-671-P1	589	604	671	0.065
550	XSVR01520A1DGC5-721-P1	639	654	721	0.065
600	XSVR01520A1DGC5-771-P1	689	704	771	0.065
700	XSVR01520A1DGC5-871-P1	789	804	871	0.085
800	XSVR01520A1DGC5-971-P1	889	904	971	0.085

Precision Ground Ball Screw Series

ST — XSVR 02010-00 (Grinding grade shaft end finished product)



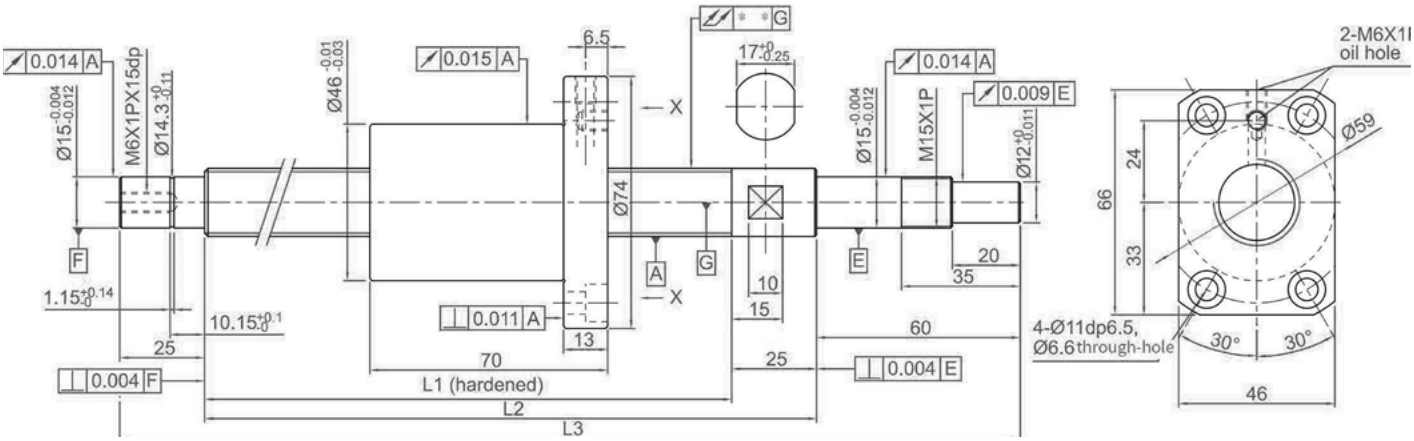
Unit:mm

Ball center	21.35
Ball diameter(mm)	3.969
Lead(mm)	10
No.of Turns	2.7x1
Lead Angle	8.48°
Threading Direction	R
Spring Force(kg)	0.1~0.3kg
Preload(kgf)	43kgf
Dynamic Load Rating Ca(kgf)	1518
Static Load Rating Coa(kgf)	3398
Accuracy Grade	0.018

Travel Length (mm)	Model No.	Shaft Length(mm)			Slant of Axle Center
		L1	L2	L3	
200	XSVR02010B1DGC5-399-P1	289	314	399	0.035
300	XSVR02010B1DGC5-499-P1	389	414	499	0.040
400	XSVR02010B1DGC5-599-P1	489	514	599	0.050
500	XSVR02010B1DGC5-699-P1	589	614	699	0.065
600	XSVR02010B1DGC5-799-P1	689	714	799	0.065
700	XSVR02010B1DGC5-899-P1	789	814	899	0.085
800	XSVR02010B1DGC5-999-P1	889	914	999	0.085
900	XSVR02010B1DGC5-1099-P1	989	1014	1099	0.110
1000	XSVR02010B1DGC5-1199-P1	1089	1114	1199	0.110

Precision Ground Ball Screw Series

ST — XSVR 01520-01 (Grinding grade shaft end finished product)



Unit : mm

Ball center	20.75
Ball diameter(mm)	3.175
Lead(mm)	20
No.of Turns	1.8x1
Lead Angle	17.05°
Threading Direction	R
Spring Force(kg)	0.1~0.3kg
Preload(kgf)	31kgf
Dynamic Load Rating Ca(kgf)	764
Static Load Rating Coa(kgf)	1758
Accuracy Grade	0.018

Travel Length (mm)	Model No.	Shaft Length(mm)			Slant of Axle Center
		L1	L2	L3	
200	XSVR02020A1DGC5-399-P1	289	314	399	0.035
300	XSVR02020A1DGC5-499-P1	389	414	499	0.040
400	XSVR02020A1DGC5-599-P1	489	514	599	0.050
500	XSVR02020A1DGC5-699-P1	589	614	699	0.065
600	XSVR02020A1DGC5-799-P1	689	714	799	0.065
700	XSVR02020A1DGC5-899-P1	789	814	899	0.085
800	XSVR02020A1DGC5-999-P1	889	914	999	0.085
900	XSVR02020A1DGC5-1099-P1	989	1014	1099	0.110
1000	XSVR02020A1DGC5-1199-P1	1089	1114	1199	0.110

Precision Ground Ball Screw Series

1.3 Rolled Ball Screw

1.3.1 Introduction to Ball Screw

Rolled screws are made through thread roller. Generally rolled screw has a smoother operationwhile lowering friction and backlash. Therefore, it gradually replaced the traditional ACM E screwsand trapezoidal screws. Moreover, rolled screws caп eliminate axial play Ьy preloading nut with acost effective pricing compare to ground screw.

1.3.2 The Features of Precision Rolled ball screw

(I)Lead Accuracy Up to Grade CS
C7 and ClO Screws have been Standardized CS oп request.

(2)Precision Ground Ball Nut
High Precision Ball Nut are interchangeaЬle between ground and rolled screws.

(3) AvailaЬle to ship separately
Ball screw and ball nuts caп Ье shipped separated ensure shortest delivery time. The ball nuts are standardized with PO preloaded, preload value caп Ье adjusted through reballing

1.3.3 Nominal Model Code of Rolled Ball Screwsscrew

Nominal Model Code of Shaft

SC R 025 05 F C7 - 1000 + N3

Type of Screw Shaft
SC:Standard SS: For H , NH type nut

Threading Direction
R:Right L:Left

Nominal Diameter
Unit:mm

Lead
Unit:mm

Product Code
F:Rolled

Accuracy Grade
C5,C7,C10

Overall Length of Shaft
Unit:mm

Shaft Surface Treatmen
□: Standard B1:Black Oxidation N1:Hard Chrome Plating P:Phosphating N4:Raydent P:Phosphating N5:Chrome Plating N3:Nickel Plating

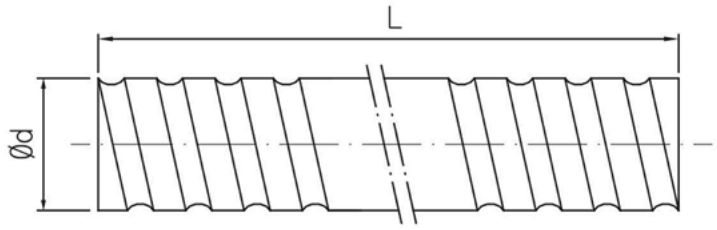


Fig1.3.1 Screw Shaft Nominal Diameter

Table1.3.1 Rolled Ball Screw Specifications ∅6-32

Unit: mm

Model No.			Accuracy Grade	Threading Direction	Number of Grooves	Standard Code of Shaft	Type of Nut	Overall Length of Shaft
d	l	Da		R:Right/L:Left				
6	1	0.8	C10、C7	R	1	SCR00601	K	1000
8	1	0.8	C10、C7、C5	R	1	SCR00801	K	1000
	2	1.2	C10、C7、C5	R	1	SCR00802	K	
	2.5	1.2	C10、C7、C5	R	1	SCR0082.5	K、BSH	
10	2	1.2	C10、C7、C5	R	1	SCR01002	K、BSH	3000
	4	2	C10、C7、C5	R	1	SCR01004	K、BSH	
12	2	1.2	C10、C7、C5	R	1	SCR01202	K	3000
	4	2.5	C10、C7、C5	R	1	SCR01204	U、BSH	
	5	2.5	C10、C7、C5	R	1	SCR01205-A	V、U、BSH、S、H	
	5	2.5	C10、C7、C5	R	1	SCR01205-B	K	
	10	2.5	C10、C7、C5	R	2	SCR01210-B	V	
14	2	1.2	C10、C7、C5	R	1	SCR01402	K	1800
	4	2.5	C10、C7	R	1	SCR01404	BSH	3000
16	4	2.381	C10、C7、C5	R	1	SCR01604 (N)	V、I、U、BSH	3000
	5	3.175	C10、C7、C5	R／L	1	SCR01605	V、I、U、BSH	
	10	3.175	C10、C7、C5	R	2	SCR01610	V、I、U、BSH	
	16	2.778	C10、C7、C5	R	4	SCR01616	Y	
	32	2.778	C10、C7	R	8	SCR01632	Y	
20	4	2.381	C10、C7、C5	R	1	SCR02004 (N)	V、I、U	3000
	5	3.175	C10、C7、C5	R／L	1	SCR02005	V、I、U、BSH、S、H	
	20	3.175	C10、C7、C5	R	4	SCR02020	V、Y、S、H	
	40	3.175	C10、C7	R	8	SCR02040	Y	
25	4	2.381	C10、C7	R	1	SCR02504 (N)	I、U	6000
	5	3.175	C10、C7、C5	R／L	1	SCR02505	V、I、U、BSH、S、H	
	10	4.762	C10、C7、C5	R	1	SCR02510-A	I、U、BSH	
	10	6.35	C10、C7、C5	R	1	SCR02510-B	V	
	25	3.969	C10、C7、C5	R	4	SCR02525	V、Y	
	50	3.969	C10、C7	R	8	SCR02550	Y	
32	4	2.381	C10、C7、C5	R	1	SCR03204 (N)	V、I、U	6000
	5	3.175	C10、C7、C5	R／L	1	SCR03205	V、I、U、M、S、H	
	10	6.35	C10、C7、C5	R／L	1	SCR03210	V、I、U	
	32	4.762	C10、C7	R	4	SCR03232	Y	
	64	4.762	C10、C7	R	8	SCR03264	Y	

Table1.3.2 Rolled Ball Screw Specifications ∅40-80

Unit : mm

Model No.			Accuracy Grade	Threading Direction	Number of Grooves	Standard Code of Shaft	Type of Nut	Overall Length of Shaft
d	l	Da		R:Right/L:Left				
40	5	3.175	C10、C7、C5	R／L	1	SCR04005	V、I、U、S、H	6000
	10	6.35	C10、C7	R／L	1	SCR04010	V、I、U	
	20	6.35	C10、C7	R	2	SCR04020	V	
	40	6.35	C10、C7	R	4	SCR04040	Y	
	80	6.35	C10、C7	R	8	SCR04080	Y	
50	5	3.175	C10、C7、C5	R	1	SCR05005	V、S、H	6000
	10	6.35	C10、C7、C5	R／L	1	SCR05010	V、I、U	
	20	9.525	C10、C7	R	1	SCR05020	V	
	50	7.938	C10、C7	R	4	SCR05050	Y	
	100	7.938	C10、C7	R	8	SCR050100	Y	
63	10	6.35	C10、C7、C5	R	1	SCR06310	V、I、U	7000
	20	9.525	C10、C7	R	1	SCR06320	V、U	
80	10	6.35	C10、C7、C5	R	1	SCR08010	V、I、U	7000
	20	9.525	C10、C7	R	1	SCR08020	V、U	

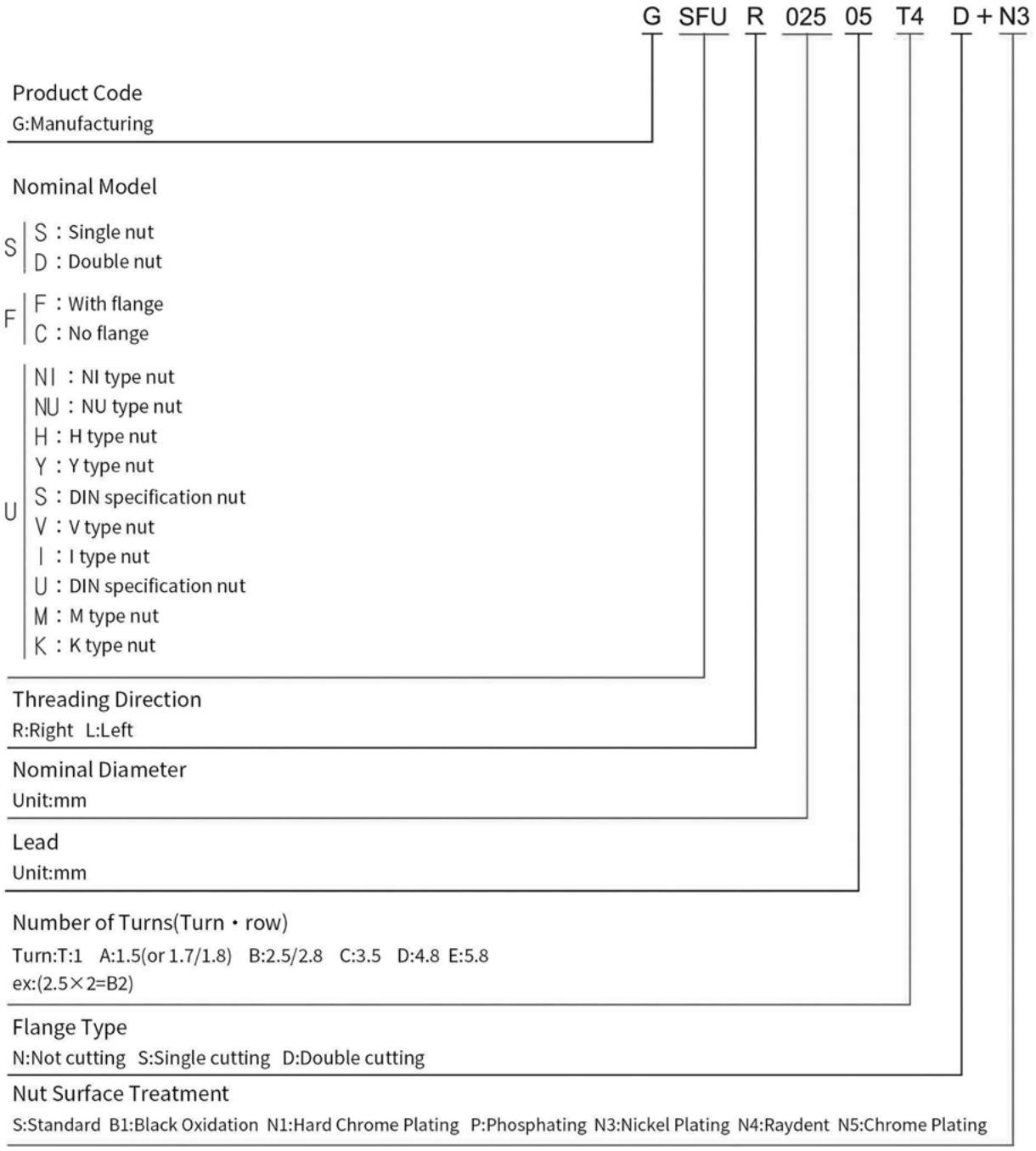
Table1.3.3 Comparison Table for S-shaped Size Specifications ∅ 12~50

Unit : mm

Model No.			Accuracy Grade	Threading Direction	Number of Grooves	Standard Code of Shaft	Type of Nut	Overall Length of Shaft
d	l	Da		R:Right/L:Left				
12	10	2.5	C10、C7、C5	R	2	SSR01210	S	3000
16	5	2.778	C10、C7、C5	R	1	SSR01605	S、H	3000
	10	2.778	C10、C7、C5	R	2	SSR01610	S、H	
	16	2.778	C10、C7、C5	R	4	SSR01616	S、H	
	20	2.778	C10、C7、C5	R	4	SSR01620	S	
20	10	3.175	C10、C7、C5	R	2	SSR02010	S、H	3000
25	10	3.175	C10、C7、C5	R	2	SSR02510	S、H	6000
	25	3.175	C10、C7	R	4	SSR02525	S、H	
32	10	3.969	C10、C7、C5	R	1	SSR03210	S、H	6000
	20	3.969	C10、C7	R	2	SSR03220	S、H	
	32	3.969	C10、C7	R	4	SSR03232	S	
40	10	6.35	C10、C7	R	1	SSR04010	S、H	6000
	20	6.35	C10、C7、C5	R	2	SSR04020	S	
	40	6.35	C10、C7	R	4	SSR04040	S	
50	10	6.35	C10、C7	R	1	SSR05010	S、H	6000
	20	6.35	C10、C7	R	2	SSR05020	S	
	50	6.35	C10、C7	R	4	SSR05050	S	

Precision Ground Ball Screw Series

Nominal model code of nut



1.3.4 Nominal model code of nut

The standard preloading for Rolled Ball Screw is P0 If Pl preloading is required, please contact Shuntai Precision

Table1.3.4 Accuracy grade of rolled ball screw

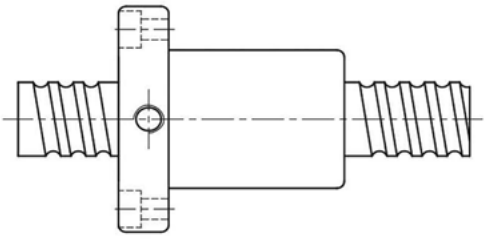
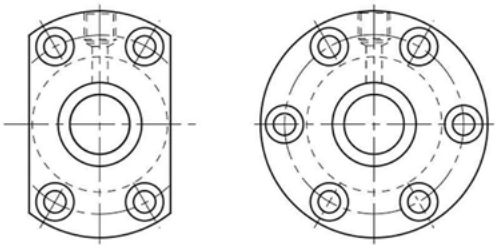
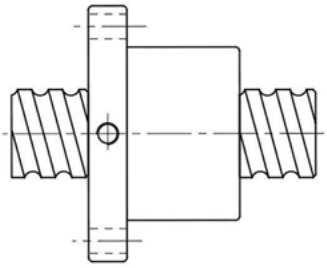
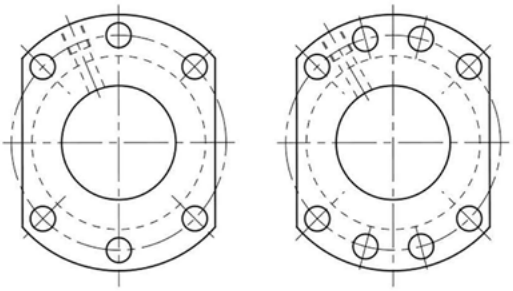
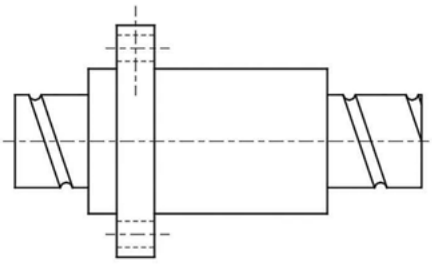
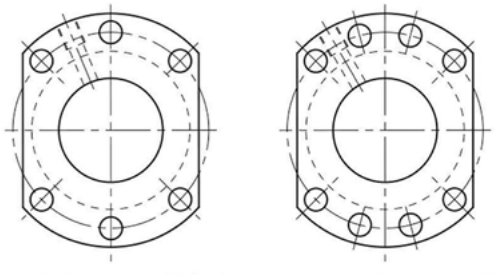
Unit : μm

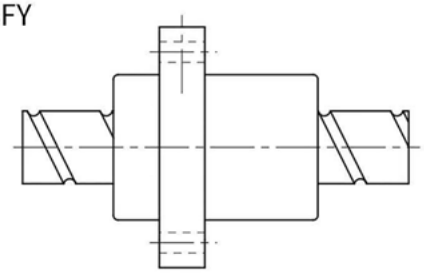
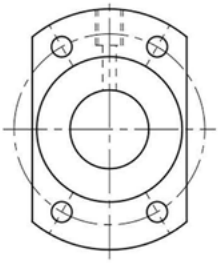
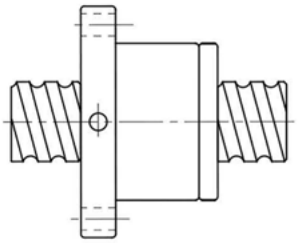
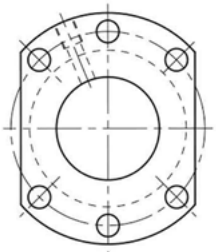
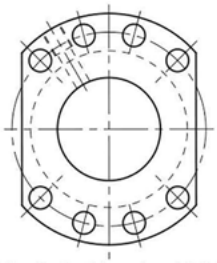
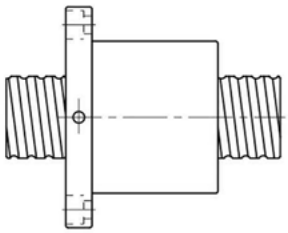
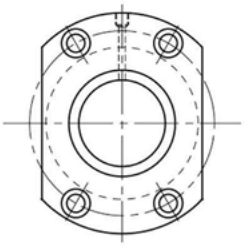
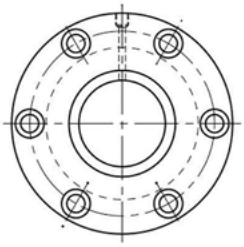
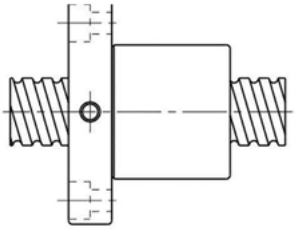
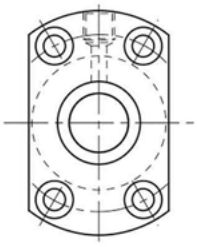
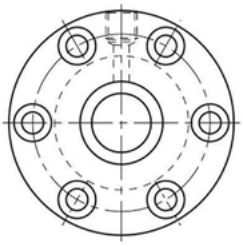
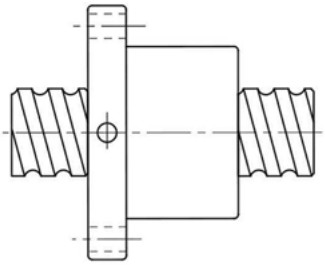
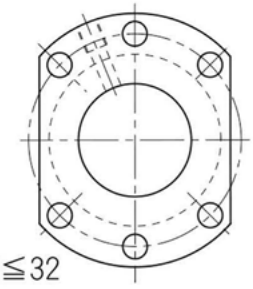
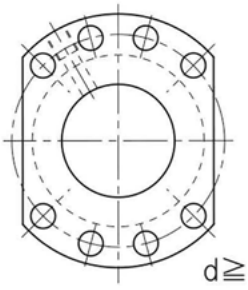
Accuracy level	C5 (ISO、DIN)	C7	C10
e300	23	50	210

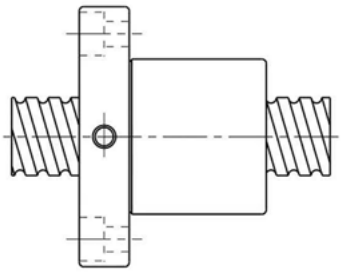
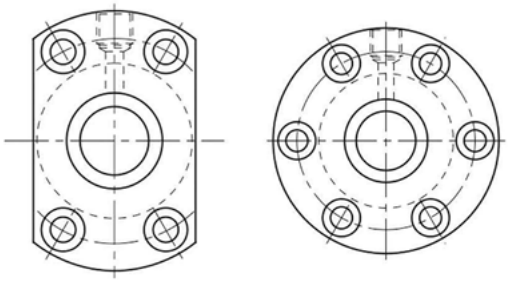
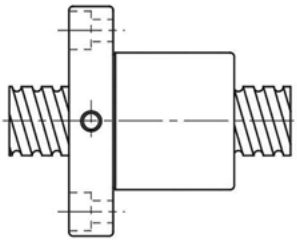
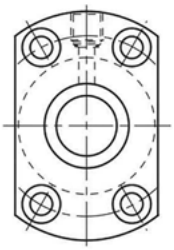
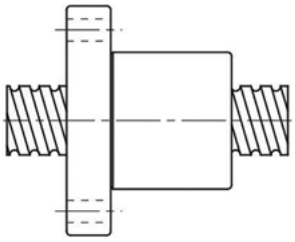
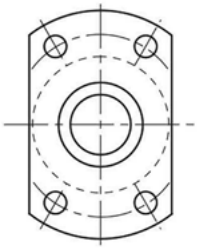
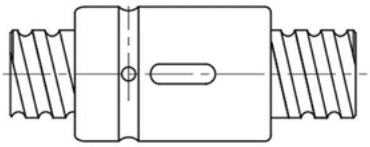
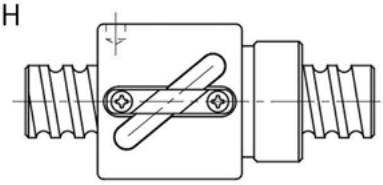
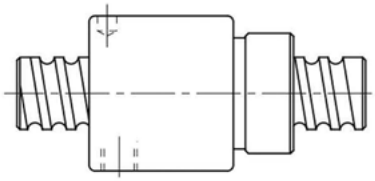
Precision Ground Ball Screw Series

1.4 Rolled Ball Screw Series

1.4.1 Shuntai Precision Ball Screw Nut

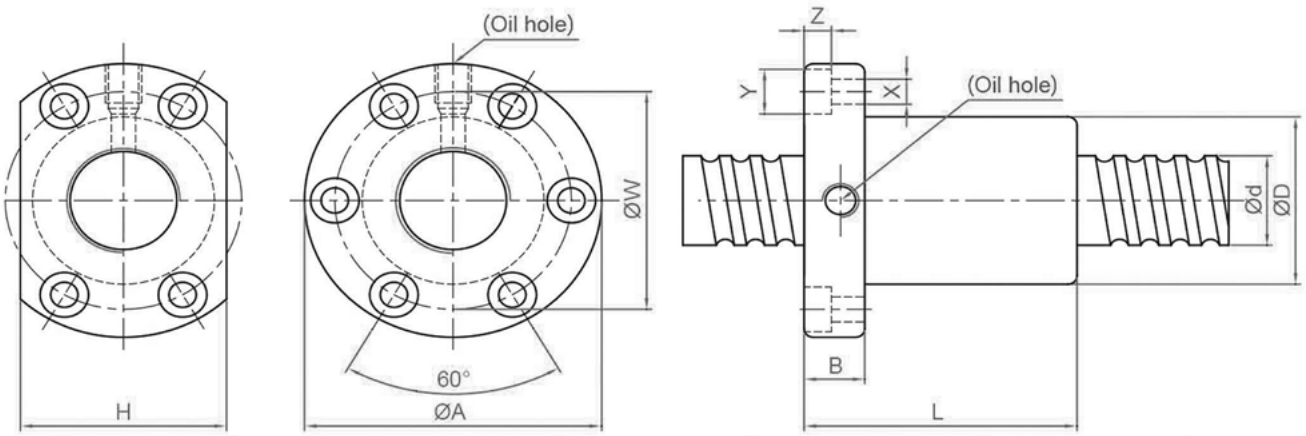
	Nut Type	Flange Type
NI (Enhanced dustproof type)	ST-SFNI  C71	
NU (Enhanced dustproof type)	ST-SFNU  C72	
H (High speed reinforced dustproof type)	ST-SFH  C73	

	Nut Type	Flange Type
Y（tall Dm-N price）	ST-SFY  C74	
S（High speed low noise type）	ST-SFS  C75	 Model No. ≦3232  Model No. ≧4005
V（Heavy load external circulation type）	ST-SFV  C76	 
—（Standard type）	ST-SFI  C77	 
U DIN（Specifications）	ST-SFU  C78	 d≦32  d≧40

	Nut Type	Flange Type
M (Design for Milling)	ST-SFM  C79	
K (microminiature)	ST-SFK  C80	 (SFK01004)
	ST-SFK  C80	
I (Standard cannot be blue shaped)	ST-SCI(No flange)  C81	No flange
BSH	ST-BSH   C82	No flange

Precision Ground Ball Screw Series

ST — SFNI series specification and size table

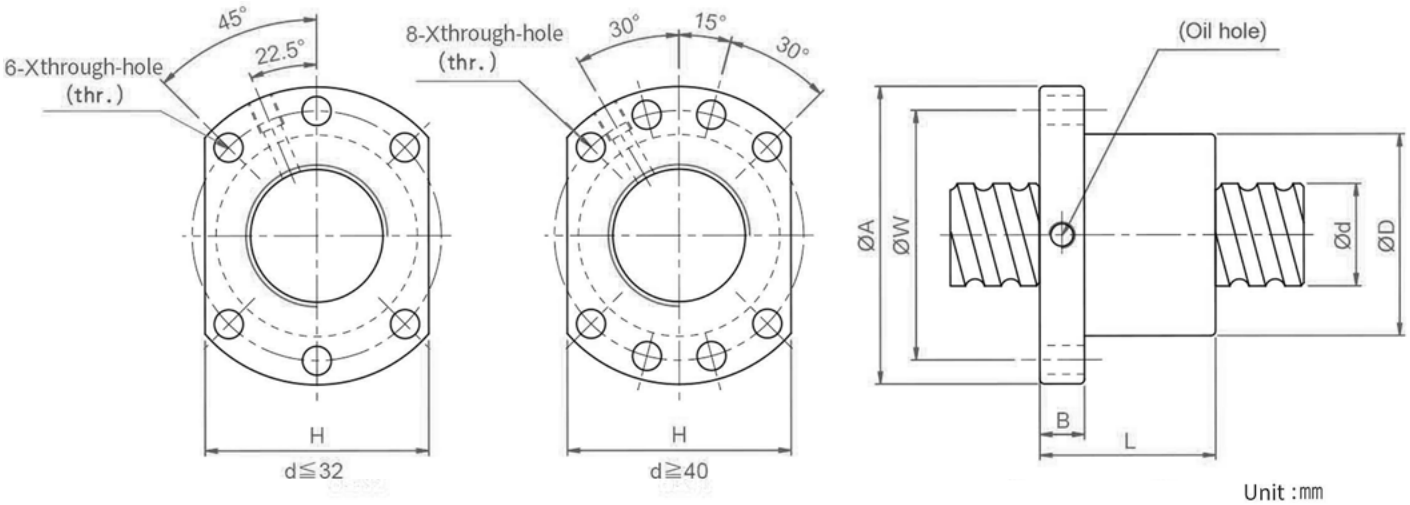


Unit : mm

Model No.	d	l	Da	Nut size											Load Rating		K kgf/μm
				D	A	B	L	W	H	X	Y	Z	Q	n	Ca	Coa	
SFNI01605-4	16	5	3.175	30	49	10	45	39	34	4.5	8	4.5	M6	1x4	1380	3052	33
SFNI01610-3		10	3.175	34	58	10	57	45	34	5.5	9.5	5.5	M6	1x3	1103	2401	27
SFNI02005-4	20	5	3.175	34	57	11	51	45	40	5.5	9.5	5.5	M6	1x4	1551	3875	39
SFNI02505-4	25	5	3.175	40	63	11	51	51	46	5.5	9.5	5.5	M8	1x4	1724	4904	45
SFNI02510-4		10	4.762	46	72	12	80	58	52	6.5	11	6.5	M6	1x4	2954	7295	51
SFNI03205-4	32	5	3.175	46	72	12	52	58	52	6.5	11	6.5	M8	1x4	1922	6343	52
SFNI03210-4		10	6.35	54	88	15	85	70	62	9	14	8.5	M8	1x4	4805	12208	62
SFNI04005-4	40	5	3.175	56	90	15	55	72	64	9	14	8.5	M8	1x4	2110	7988	59
SFNI04010-4		10	6.35	62	104	18	88	82	70	11	17.5	11	M8	1x4	5399	15500	72
SFNI05010-4	50	10	6.35	72	114	18	88	92	82	11	17.5	11	M8	1x4	6004	19614	83
SFNI06310-4	63	10	6.35	85	131	22	93	107	95	14	20	13	M8	1x4	6719	25358	95
SFNI08010-4	80	10	6.35	105	150	22	93	127	115	14	20	13	M8	1x4	7346	31953	109

Precision Ground Ball Screw Series

ST — SFNU series specification and size table

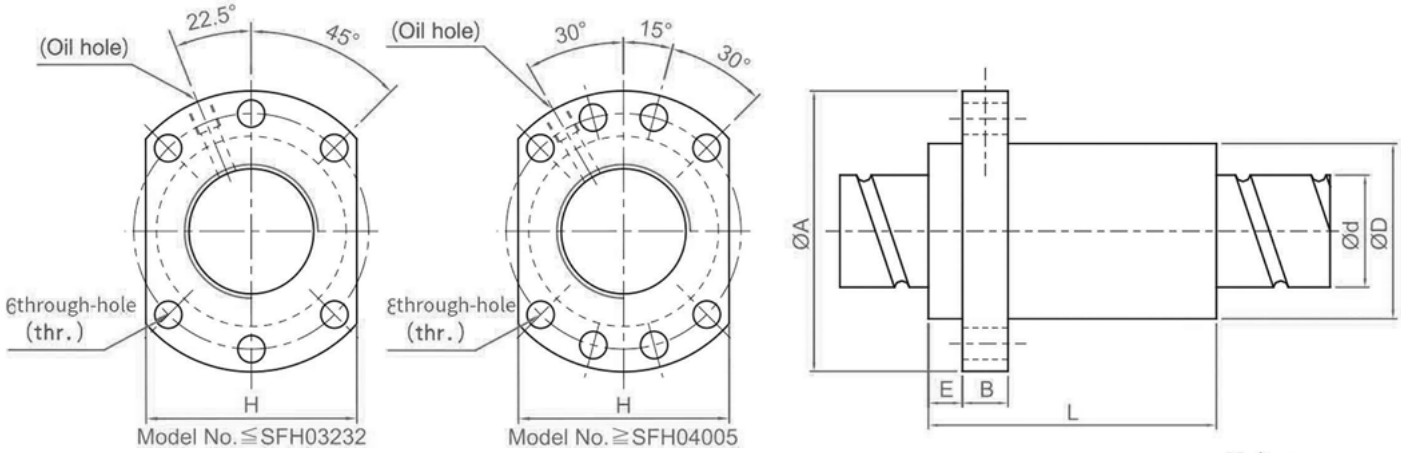


Unit : mm

Model No.	d	l	Da	Nut size									Load Rating		K kgf/μm
				D	A	B	L	W	H	X	Q	n	Ca	Coa	
SFNU01605-4	16	5	3.175	28	48	10	45	38	40	5.5	M6	1x4	1380	3052	32
SFNU01610-3		10	3.175	28	48	10	57	38	40	5.5	M6	1x3	1103	2401	26
SFNU02005-4	20	5	3.175	36	58	10	51	47	44	6.6	M6	1x4	1551	3875	39
SFNU02505-4	25	5	3.175	40	62	10	51	51	48	6.6	M6	1x4	1724	4904	45
SFNU02510-4		10	4.762	40	62	12	80	51	48	6.6	M6	1x4	2954	7295	50
SFNU03205-4	32	5	3.175	50	80	12	52	65	62	9	M6	1x4	1922	6343	54
SFNU03210-4		10	6.35	50	80	12	85	65	62	9	M6	1x4	4805	12208	61
SFNU04005-4	40	5	3.175	63	93	14	55	78	70	9	M8	1x4	2110	7988	63
SFNU04010-4		10	6.35	63	93	14	88	78	70	9	M8	1x4	5399	15500	73
SFNU05010-4	50	10	6.35	75	110	16	88	93	85	11	M8	1x4	6004	19614	85
SFNU06310-4	63	10	6.35	90	125	18	93	108	95	11	M8	1x4	6719	25358	99
SFNU08010-4	80	10	6.35	105	145	20	93	125	110	13.5	M8	1x4	7346	31953	109

Precision Ground Ball Screw Series

ST — SFH series specification and size table

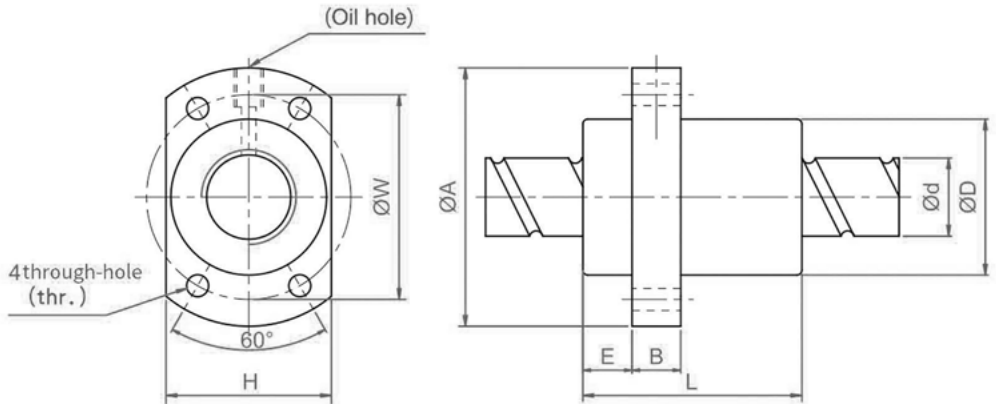


Unit : mm

Model No.	d	l	Da	Nut size										Load Rating		K kgf/μm
				D	A	E	B	L	W	H	X	Q	n	Ca	Coa	
SFH01205-2.8	12	5	2.5	24	40	5	10	30	32	30	4.5		2.8x1	661	1316	19
SFH01210-2.8		10	2.5	24	40	5	10	45	32	30	4.5		2.8x1	642	1287	19
SFH01605-3.8	15	5	2.778	28	48	5	10	37	38	40	5.5	M6	3.8x1	1112	2507	30
SFH01610-2.8		10	2.778	28	48	5	10	45	38	40	5.5	M6	2.8x1	839	1821	23
SFH01616-1.8		16	2.778	28	48	5	10	45	38	40	5.5	M6	1.8x1	552	1137	14
SFH01616-2.8		16	2.778	28	48	5	10	61	38	40	5.5	M6	2.8x1	808	1769	22
SFH01620-1.8		20	2.778	28	48	5	10	58	38	40	5.5	M6	1.8x1	554	1170	14
SFH02005-3.8	20	5	3.175	36	58	7	10	37	47	44	6.6	M6	3.8x1	1484	3681	37
SFH02010-3.8		10	3.175	36	58	7	10	55	47	44	6.6	M6	3.8x1	1516	3833	40
SFH02020-1.8		20	3.175	36	58	7	10	54	47	44	6.6	M6	1.8x1	764	1758	19
SFH02020-2.8		20	3.175	36	58	7	10	74	47	44	6.6	M6	2.8x1	1118	2734	29
SFH02505-3.8	25	5	3.175	40	62	7	10	37	51	48	6.6	M6	3.8x1	1650	4658	43
SFH02510-3.8		10	3.175	40	62	7	12	55	51	48	6.6	M6	3.8x1	1638	4633	45
SFH02525-1.8		25	3.175	40	62	7	12	64	51	48	6.6	M6	1.8x1	843	2199	22
SFH02525-2.8		25	3.175	40	62	7	12	89	51	48	6.6	M6	2.8x1	1232	3421	34
SFH03205-3.8	32	5	3.175	50	80	9	12	37	65	62	9	M6	3.8x1	1839	6026	51
SFH03210-3.8	31	10	3.969	50	80	9	12	57	65	62	9	M6	3.8x1	2460	7255	55
SFH03220-2.8		20	3.969	50	80	9	12	76	65	62	9	M6	2.8x1	1907	5482	43
SFH03232-1.8		32	3.969	50	80	9	12	80	65	62	9	M6	1.8x1	1257	3426	27
SFH03232-2.8		32	3.969	50	80	9	12	112	65	62	9	M6	2.8x1	1838	5329	42
SFH04005-3.8	40	5	3.175	63	93	9	15	42	78	70	9	M8	3.8x1	2018	7589	60
SFH04010-3.8	38	10	6.35	63	93	9	14	60	78	70	9	M8	3.8x1	5035	13943	67
SFH04020-2.8		20	6.35	63	93	9	14	80	78	70	9	M8	2.8x1	3959	10715	54
SFH04040-1.8		40	6.35	63	93	9	14	98	78	70	9	M8	1.8x1	2585	6648	34
SFH04040-2.8		40	6.35	63	93	9	14	138	78	70	9	M8	2.8x1	3780	10341	52
SFH05005-3.8	50	5	3.175	75	110	10.5	15	42	93	85	11	M8	3.8x1	2207	9542	68
SFH05010-3.8	48	10	6.35	75	110	10.5	18	60	93	85	11	M8	3.8x1	5638	17852	79
SFH05020-3.8		20	6.35	75	110	10.5	18	100	93	85	11	M8	3.8x1	5749	18485	87
SFH05050-1.8		50	6.35	75	110	10.5	18	120	93	85	11	M8	1.8x1	2946	8749	42
SFH05050-2.8		50	6.35	75	110	10.5	18	170	93	85	11	M8	2.8x1	4308	13610	65

Precision Ground Ball Screw Series

ST — SFY series specification and size table

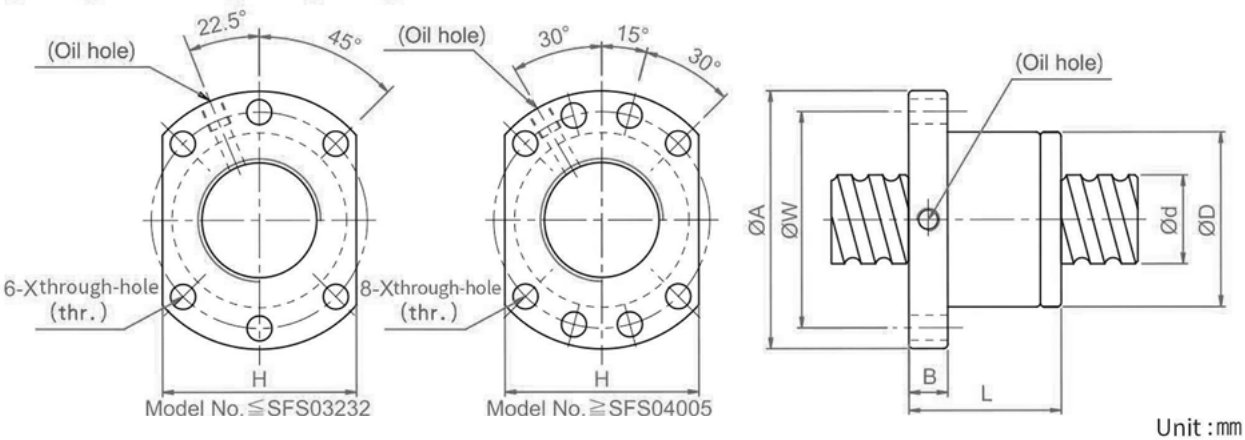


Unit : mm

Model No.	d	l	Da	Nut size										Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	E	B	L	W	H	X	Q	n			
SFY01616-3.6	16	16	2.778	32	53	10.1	10	45	42	34	4.5	M6	1.8x2	1073	2551	31
SFY02020-3.6	20	20	3.175	39	62	13	10	52	50	41	5.5	M6	1.8x2	1387	3515	37
SFY02525-3.6	25	25	3.969	47	74	15	12	64	60	49	6.6	M6	1.8x2	2074	5494	45
SFY03232-3.6	32	32	4.762	58	92	17	12	78	74	60	9	M6	1.8x2	3021	8690	58
SFY04040-3.6	40	40	6.35	73	114	19.5	15	99	93	75	11	M6	1.8x2	4831	14062	70
SFY05050-3.6	50	50	7.938	90	135	21.5	20	117	112	92	14	M6	1.8x2	7220	21974	86
Model No.	d	l	Da	Nut size										Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	E	B	L	W	H	X	Q	n			
SFY01632-1.6	16	32	2.778	32	53	10.1	10	42.5	42	34	4.5	M6	0.8x2	493	1116	11
SFY02040-1.6	20	40	3.175	39	62	13	10	48	50	41	5.5	M6	0.8x2	653	1597	15
SFY02550-1.6	25	50	3.969	47	74	15	12	58	60	49	6.6	M6	0.8x2	976	2495	19
SFY03264-1.6	32	64	4.762	58	92	17	12	71	74	60	9	M6	0.8x2	1374	3571	22
SFY04080-1.6	40	80	6.35	73	114	19.5	15	90	93	75	11	M6	0.8x2	2273	6387	29
SFY050100-1.6	50	100	7.938	90	135	21.5	20	111	112	92	14	M6	0.8x2	3398	9980	35

Precision Ground Ball Screw Series

ST — SFS series specification and size table

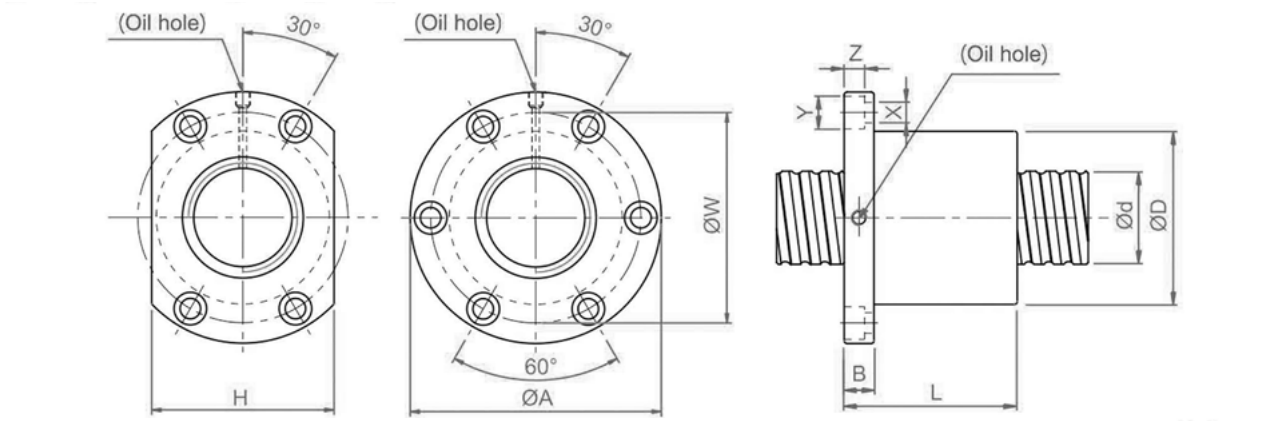


Unit : mm

Model No.	d	l	Da	Nut size									Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	W	H	X	Q	n			
SFS01205-2.8	12	5	2.5	24	40	10	31	32	30	4.5		2.8x1	661	1316	19
SFS01210-2.8		10	2.5	24	40	10	48.5	32	30	4.5		2.8x1	642	1287	19
SFS01605-3.8	15	5	2.778	28	48	10	38	38	40	5.5	M6	3.8x1	1112	2507	30
SFS01610-2.8		10	2.778	28	48	10	47	38	40	5.5	M6	2.8x1	839	1821	23
SFS01616-1.8		16	2.778	28	48	10	45	38	40	5.5	M6	1.8x1	552	1137	14
SFS01616-2.8		16	2.778	28	48	10	61	38	40	5.5	M6	2.8x1	808	1769	22
SFS01620-1.8		20	2.778	28	48	10	57	38	40	5.5	M6	1.8x1	554	1170	14
SFS02005-3.8	20	5	3.175	36	58	10	40	47	44	6.6	M6	3.8x1	1484	3681	37
SFS02010-3.8		10	3.175	36	58	10	60	47	44	6.6	M6	3.8x1	1516	3833	40
SFS02020-1.8		20	3.175	36	58	10	57	47	44	6.6	M6	1.8x1	764	1758	19
SFS02020-2.8		20	3.175	36	58	10	77	47	44	6.6	M6	2.8x1	1118	2734	29
SFS02505-3.8	25	5	3.175	40	62	10	40	51	48	6.6	M6	3.8x1	1650	4658	43
SFS02510-3.8		10	3.175	40	62	12	62	51	48	6.6	M6	3.8x1	1638	4633	45
SFS02525-1.8		25	3.175	40	62	12	70	51	48	6.6	M6	1.8x1	843	2199	22
SFS02525-2.8		25	3.175	40	62	12	95	51	48	6.6	M6	2.8x1	1232	3421	34
SFS03205-3.8	32	5	3.175	50	80	12	42	65	62	9	M6	3.8x1	1839	6026	51
SFS03210-3.8	31	10	3.969	50	80	13	62	65	62	9	M6	3.8x1	2460	7255	55
SFS03220-2.8		20	3.969	50	80	12	80	65	62	9	M6	2.8x1	1907	5482	43
SFS03232-1.8		32	3.969	50	80	13	84	65	62	9	M6	1.8x1	1257	3426	27
SFS03232-2.8		32	3.969	50	80	13	116	65	62	9	M6	2.8x1	1838	5329	42
SFS04005-3.8	40	5	3.175	63	93	15	45	78	70	9	M8	3.8x1	2018	7589	60
SFS04010-3.8	38	10	6.35	63	93	14	63	78	70	9	M8	3.8x1	5035	13943	67
SFS04020-2.8		20	6.35	63	93	14	82	78	70	9	M8	2.8x1	3959	10715	54
SFS04040-1.8		40	6.35	63	93	15	105	78	70	9	M8	1.8x1	2585	6648	34
SFS04040-2.8		40	6.35	63	93	15	145	78	70	9	M8	2.8x1	3780	10341	52
SFS05005-3.8	50	5	3.175	75	110	15	45	93	85	11	M8	3.8x1	2207	9542	68
SFS05010-3.8	48	10	6.35	75	110	18	68	93	85	11	M8	3.8x1	5638	17852	79
SFS05020-3.8		20	6.35	75	110	18	108	93	85	11	M8	3.8x1	5749	18485	87
SFS05050-1.8		50	6.35	75	110	18	125	93	85	11	M8	1.8x1	2946	8749	42
SFS05050-2.8		50	6.35	75	110	18	175	93	85	11	M8	2.8x1	4308	13610	65

Precision Ground Ball Screw Series

ST — SFV series specification and size table

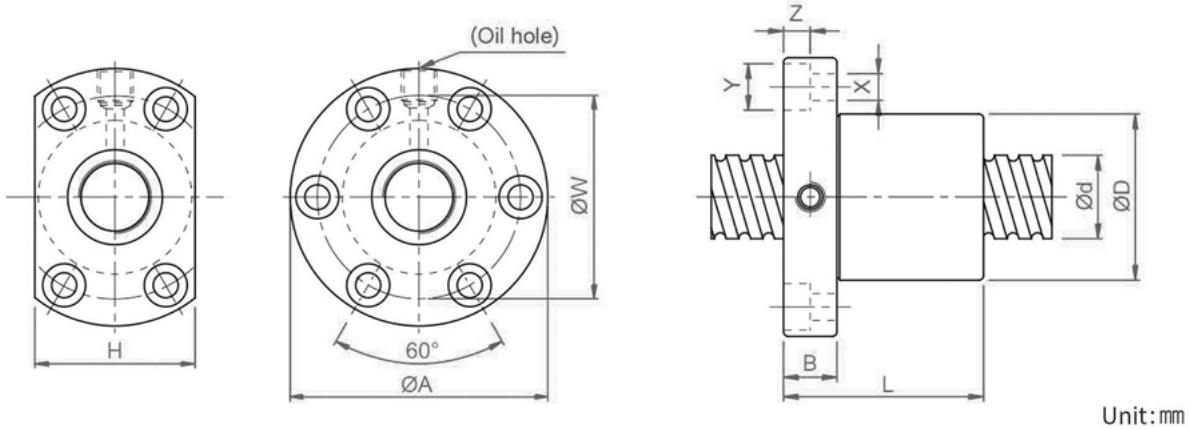


Unit : mm

Model No.	d	l	Da	Nut size											Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	W	H	X	Y	Z	Q	n			
SFV01205-2.8	12	5	2.5	30	50	10	42	40	32	4.5	8	4.5	M6	2.8x1	661	1316	19
SFV01210-2.7		10	2.5	30	50	10	53	40	32	4.5	8	4.5	M6	2.7x1	623	1241	18
SFV01604-3.8	16	4	2.381	34	57	11	45	45	34	5.5	9.5	5.5	M6	3.8x1	931	2285	31
SFV01605-4.8		5	3.175	40	63	11	58	51	42	5.5	9.5	5.5	M6	4.8x1	1614	3662	40
SFV01610-2.7		10	3.175	40	63	11	56	51	42	5.5	9.5	5.5	M6	2.7x1	1008	2161	24
SFV02004-4.8	20	4	2.381	40	60	10	50	50	40	4.5	8	4	M6	4.8x1	1247	3584	45
SFV02005-4.8		5	3.175	44	67	11	57	55	52	5.5	9.5	5.5	M6	4.8x1	1814	4650	47
SFV02020-1.8		20	3.175	46	74	13	70	59	46	6.6	11	6.5	M6	1.8x1	764	1758	19
SFV02505-4.8	25	5	3.175	50	73	11	55	61	52	5.5	9.5	5.5	M8	4.8x1	2017	5884	56
SFV02510-2.7		10	6.35	68	102	15	70	84	82	9	14	8.5	M8	2.7x1	3040	6547	37
SFV02525-1.8		25	3.175	50	73	13	83	61	52	5.5	9.5	5.5	M8	1.8x1	843	2199	22
SFV03204-4.8	32	4	2.381	54	81	12	50	67	64	6.6	11	6.5	M6	4.8x1	1517	5806	62
SFV03205-4.8		5	3.175	58	85	12	56	71	64	6.6	11	6.5	M8	4.8x1	2249	7612	66
SFV03210-4.8		10	6.35	74	108	15	96	90	82	9	14	9	M8	4.8x1	5620	14649	76
SFV04005-4.8	40	5	3.175	67	101	15	59	83	72	9	14	8.5	M8	4.8x1	2468	9586	76
SFV04010-4.8		10	6.35	82	124	18	100	102	94	11	17.5	11	M8	4.8x1	6316	18600	90
SFV04020-2.7		20	6.35	82	124	18	100	102	90	11	17.5	11	M8	2.7x1	3935	10893	56
SFV05005-4.8	50	5	3.175	80	114	15	60	96	82	9	14	8.5	M8	4.8x1	2698	12053	87
SFV05010-4.8		10	6.35	93	135	16	93	113	98	11	17.5	11	M8	4.8x1	7023	23537	106
SFV05020-2.7		20	9.525	105	152	28	121	128	110	14	20	13	M8	2.7x1	7336	19700	68
SFV06310-4.8	63	10	6.35	108	154	22	105	130	110	14	20	13	M8	4.8x1	7860	30430	126
SFV06320-2.7		20	9.525	122	180	28	120	150	130	18	26	17.5	M8	2.7x1	8162	24741	80
SFV08010-4.8	80	10	6.35	130	176	22	105	152	132	14	20	13	M8	4.8x1	8593	38344	145
SFV08020-4.8		20	9.525	143	204	28	180	172	148	18	26	18	M8	4.8x1	15103	57296	168
SFV08020-7.6		20	9.525	143	204	28	240	172	148	18	26	18	M8	3.8x2	22423	90719	260

Precision Ground Ball Screw Series

ST — SFI series specification and size table

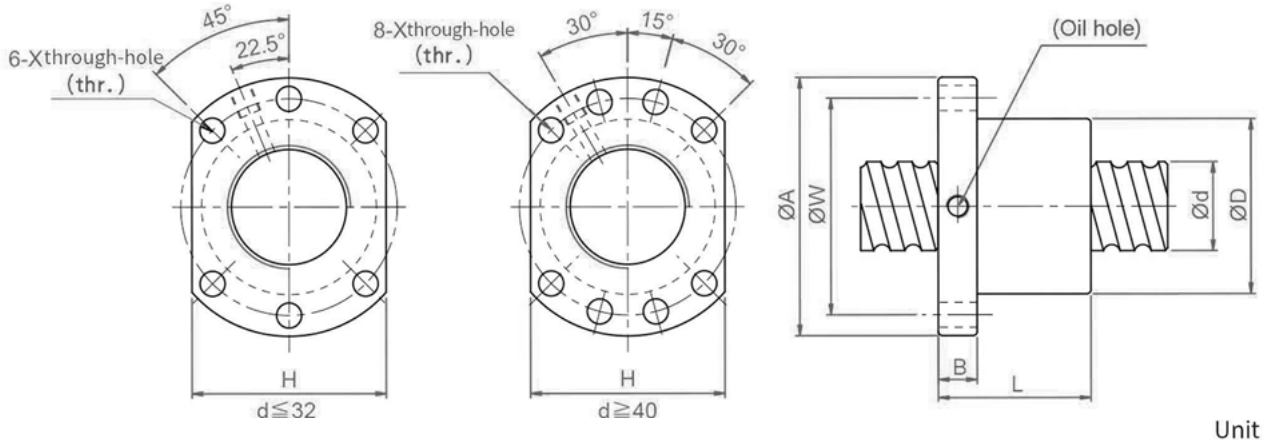


Unit: mm

Model No.	d	l	Da	Nut size											Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	W	H	X	Y	Z	Q	n			
SFI01604-4	16	4	2.381	30	49	10	45	39	34	4.5	8	4.5	M6	1x4	973	2406	32
SFI01605-4		5	3.175	30	49	10	50	39	34	4.5	8	4.5	M6	1x4	1380	3052	33
SFI01610-3		10	3.175	34	58	10	57	45	34	5.5	9.5	5.5	M6	1x3	1103	2401	27
SFI02004-4	20	4	2.381	34	57	11	46	45	40	5.5	9.5	5.5	M6	1x4	1066	2987	37
SFI02005-4		5	3.175	34	57	11	51	45	40	5.5	9.5	5.5	M6	1x4	1551	3875	39
SFI02504-4	25	4	2.381	40	63	11	46	51	46	5.5	9.5	5.5	M6	1x4	1180	3795	43
SFI02505-4		5	3.175	40	63	11	51	51	46	5.5	9.5	5.5	M8	1x4	1724	4904	45
SFI0255T-4		5.08	3.175	40	63	11	51	51	46	5.5	9.5	5.5	M8	1x4	1724	4904	45
SFI02510-4		10	4.762	46	72	12	85	58	52	6.5	11	6.5	M6	1x4	2954	7295	51
SFI03204-4	32	4	2.381	46	72	12	47	58	52	6.5	11	6.5	M6	1x4	1296	4838	49
SFI03205-4		5	3.175	46	72	12	52	58	52	6.5	11	6.5	M8	1x4	1922	6343	52
SFI03210-4		10	6.35	54	88	15	90	70	62	9	14	8.5	M8	1x4	4805	12208	62
SFI04005-4	40	5	3.175	56	90	15	55	72	64	9	14	8.5	M8	1x4	2110	7988	59
SFI04010-4		10	6.35	62	104	18	93	82	70	11	17.5	11	M8	1x4	5399	15500	72
SFI05010-4	50	10	6.35	72	114	18	93	92	82	11	17.5	11	M8	1x4	6004	19614	83
SFI06310-4	63	10	6.35	85	131	22	98	107	95	14	20	13	M8	1x4	6719	25358	95
SFI08010-4	80	10	6.35	105	150	22	98	127	115	14	20	13	M8	1x4	7346	31953	109

Precision Ground Ball Screw Series

ST — SFU series specification and size table



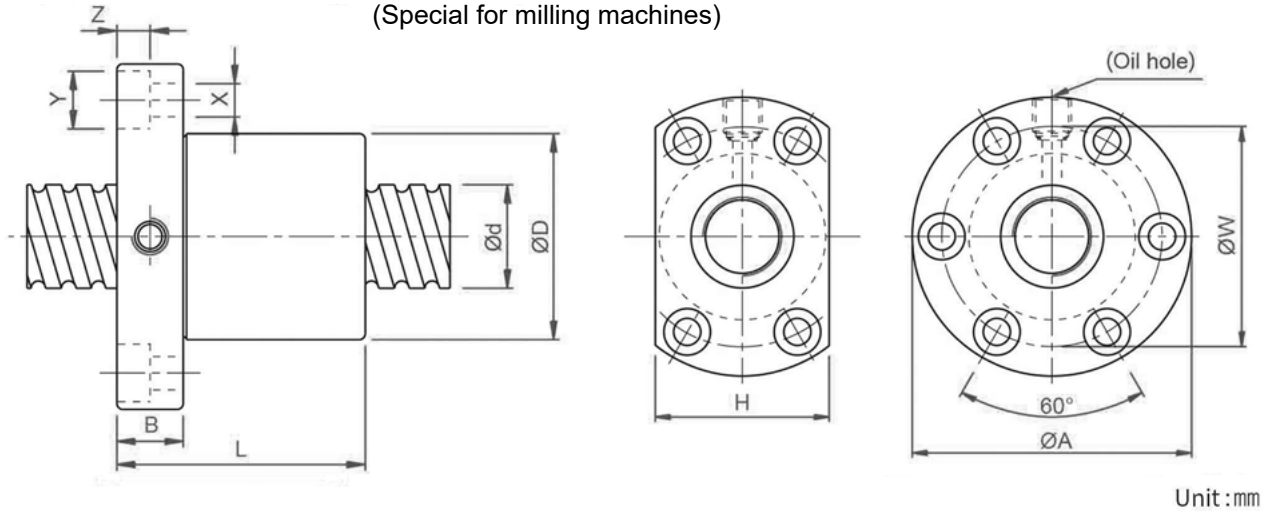
Unit : mm

Model No.	d	l	Da	Nut size									Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	W	H	X	Q	n			
SFU01204-4	12	4	2.5	24	40	10	40	32	30	4.5		1x4	902	1884	26
SFU01604-4	16	4	2.381	28	48	10	40	38	40	5.5	M6	1x4	973	2406	32
SFU01605-4		5	3.175	28	48	10	50	38	40	5.5	M6	1x4	1380	3052	32
SFU01610-3		10	3.175	28	48	10	57	38	40	5.5	M6	1x3	1103	2401	26
SFU02004-4	20	4	2.381	36	58	10	42	47	44	6.6	M6	1x4	1066	2987	38
SFU02005-4		5	3.175	36	58	10	51	47	44	6.6	M6	1x4	1551	3875	39
SFU02504-4	25	4	2.381	40	62	10	42	51	48	6.6	M6	1x4	1180	3795	43
SFU02505-4		5	3.175	40	62	10	51	51	48	6.6	M6	1x4	1724	4904	45
SFU02510-4		10	4.762	40	62	12	85	51	48	6.6	M6	1x4	2954	7295	50
SFU03204-4	32	4	2.381	50	80	12	44	65	62	9	M6	1x4	1296	4838	51
SFU03205-4		5	3.175	50	80	12	52	65	62	9	M6	1x4	1922	6343	54
SFU03210-4		10	6.35	50	80	12	90	65	62	9	M6	1x4	4805	12208	61
SFU04005-4	40	5	3.175	63	93	14	55	78	70	9	M8	1x4	2110	7988	63
SFU04010-4		10	6.35	63	93	14	93	78	70	9	M8	1x4	5399	15500	73
SFU05010-4	50	10	6.35	75	110	16	93	93	85	11	M8	1x4	6004	19614	85
SFU06310-4	63	10	6.35	90	125	18	98	108	95	11	M8	1x4	6719	25358	99
SFU06320-4		20	9.525	95	135	20	149	115	100	13.5	M8	1x4	11444	36653	112
SFU08010-4	80	10	6.35	105	145	20	98	125	110	13.5	M8	1x4	7346	31953	109
SFU08020-4		20	9.525	125	165	25	154	145	130	13.5	M8	1x4	12911	47747	138

Precision Ground Ball Screw Series

ST — SFM series specification and size table

(Special for milling machines)

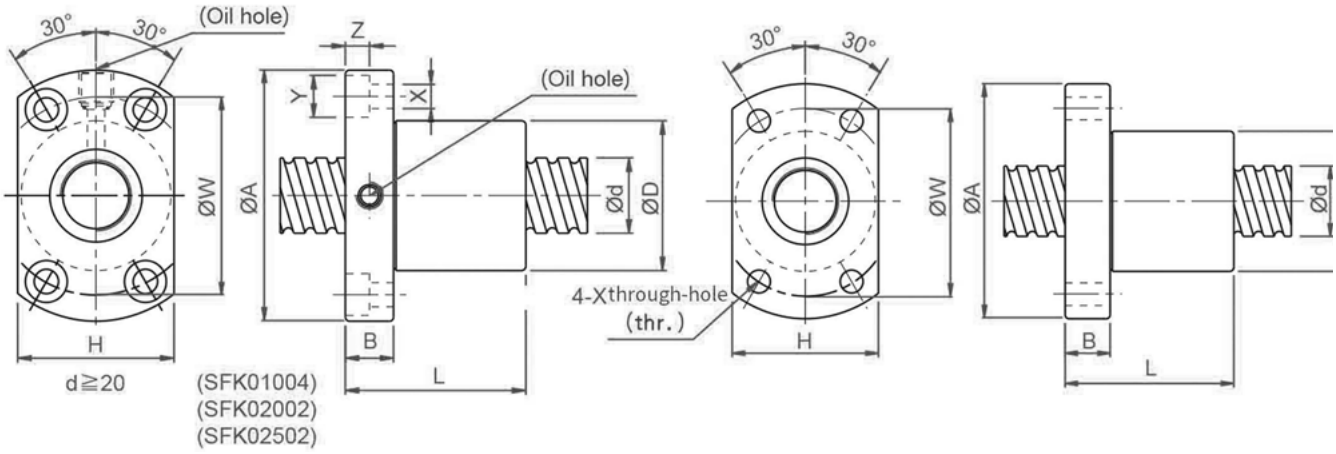


Unit : mm

Model No.	d	l	Da	Nut size											Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	W	H	X	Y	Z	Q	n			
SFM03205-4	32	5	3.175	48	74	12	52	60	52	6.5	11	6.5	M8	1x4	1922	6343	53

Precision Ground Ball Screw Series

ST — SFK series specification and size table



Unit : mm

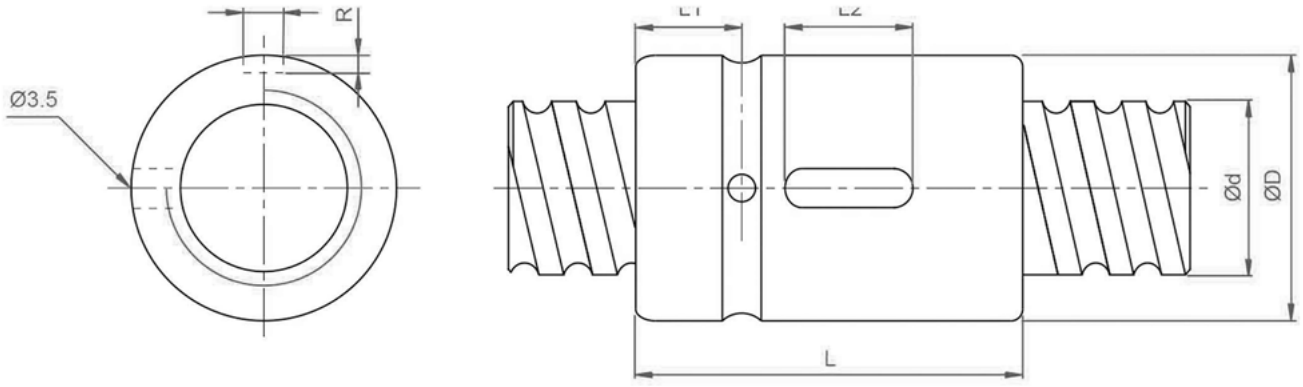
Model No.	d	l	Da	Nut size											Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	W	H	X	Y	Z	Q	n			
SFK00601	6	1	0.8	12	24	3.5	15	18	16	3.4	—	—	—	1x3	111	224	9
SFK00801	8	1	0.8	14	27	4	16	21	18	3.4	—	—	—	1x4	161	403	14
SFK00802		2	1.2	14	27	4	16	21	18	3.4	—	—	—	1x3	222	458	13
SFK0082.5		2.5	1.2	16	29	4	26	23	20	3.4	—	—	—	1x3	221	457	13
SFK01002	10	2	1.2	18	35	5	28	27	22	4.5	—	—	—	1x3	243	569	15
SFK01004		4	2	26	46	10	34	36	28	4.5	8	4.5	M6	1x3	468	905	17
SFK01202	12	2	1.2	20	37	5	28	29	24	4.5	—	—	—	1x4	334	906	22
SFK01402	14	2	1.2	21	40	6	23	31	26	5.5	—	—	—	1x4	354	1053	24

Unit : mm

Model No.	d	l	Da	Nut size											Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	W	H	X	Y	Z	Q	n			
XSUR01204T3D-02	12	4	2.5	24	40	6	28	32	25	3.5	—	—	—	1x3	454	722	—
XSUR01205T3D-00		5		22	37	8	39	29	24	4.5	—	—	—	1x3	675	1316	17

Precision Ground Ball Screw Series

ST — SCI series specification and size table

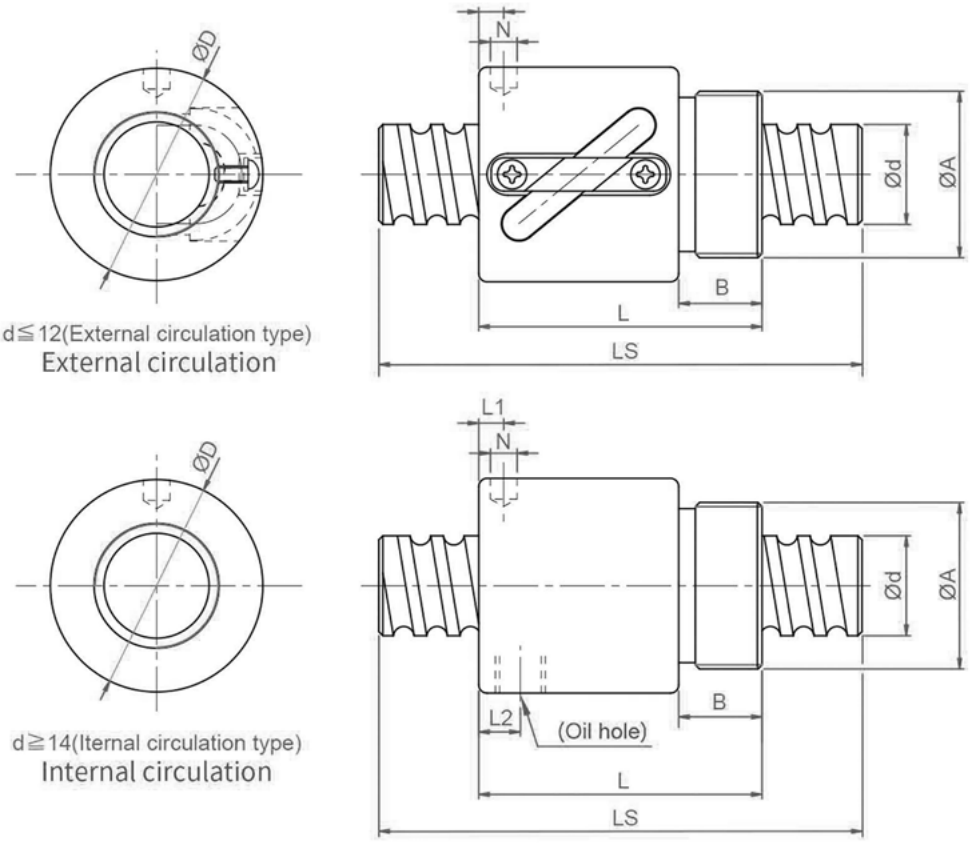


Unit : mm

Model No.	d	l	Da	Nut size							Load Rating Ca	Load Rating Coa	K kgf/μm
				D	L	L1	L2	M	R	n			
SCI01604-4	16	4	2.381	30	40	9	15	3	1.5	1x4	973	2406	32
SCI01605-4		5	3.175	30	45	9	20	5	3	1x4	1380	3052	33
SCI02004-4	20	4	2.381	34	40	9	15	3	1.5	1x4	1066	2987	37
SCI02005-4		5	3.175	34	45	9	20	5	3	1x4	1551	3875	39
SCI02504-4	25	4	2.381	40	40	9	15	3	1.5	1x4	1180	3795	43
SCI02505-4		5	3.175	40	45	9	20	5	3	1x4	1724	4904	45
SCI02510-4		10	4.762	46	85	13	30	5	3	1x4	2954	7295	51
SCI03204-4	32	4	2.381	46	40	9	15	3	1.5	1x4	1296	4838	49
SCI03205-4		5	3.175	46	45	9	20	5	3	1x4	1922	6343	52
SCI03210-4		10	6.35	54	85	13	30	5	3	1x4	4805	12208	62
SCI04005-4	40	5	3.175	56	45	9	20	5	3	1x4	2110	7988	59
SCI04010-4		10	6.35	62	85	13	30	5	3	1x4	5399	15500	72
SCI05010-4	50	10	6.35	72	85	13	30	5	3	1x4	6004	19614	83
SCI06310-4	63	10	6.35	85	85	13	30	6	3.5	1x4	6719	25358	95
SCI08010-4	80	10	6.35	105	85	13	30	8	4.5	1x4	7346	31953	109

Precision Ground Ball Screw Series

ST — BSH series specification and size table



Unit:mm

Model No.	d	I	Da	Nut size									Load Rating Ca	Load Rating Coa	K kgf/μm
				D	A	B	L	L1	N	L2	Q	n			
BSHR0082.5-2.5	8	2.5	1.2	17.5	M15x1P	7.5	23.5	10	3	—	—	2.5x1	189	381	11
BSHR01002-3.5	10	2	1.2	19.5	M17x1P	7.5	22	3	3.2	—	—	3.5x1	277	664	17
BSHR01004-2.5		4	2	25	M20x1P	10	34	3	3	—	—	2.5x1	400	754	14
BSHR01204-3.5	12	4	2.5	25.5	M20x1P	10	34	13	3	—	—	3.5x1	804	1649	23
BSHR01205-3.5		5	2.5	25.5	M20x1P	10	39	16.25	3	—	—	3.5x1	801	1644	24
BSHR01404-3	14	4	2.5	32.1	M25x1.5P	10	35	11	3	—	—	1x3	748	1609	26
BSHR01604-3	16	4	2.381	29	M22x1.5P	8	32	4	3.2	—	—	1x3	759	1804	24
BSHR01605-3		5	3.175	32.5	M26x1.5P	12	42	19.25	3	—	—	1x3	1077	2289	25
BSHR01610-2		10	3.175	32	M26x1.5P	12	50	3	4	3	M4	1x2	675	1316	14
BSHR02005-3	20	5	3.175	38	M35x1.5P	15	45	20.3	3	—	—	1x3	1211	2906	30
BSHR02505-4	25	5	3.175	43	M40x1.5P	19	69	32.11	3	8	M6	1x4	1724	4904	37
BSHR02510-4		10	4.762	43	M40x1.5P	19	84	8	6	8	M6	1x4	2954	7295	41

Precision Ground Ball Screw Series

2.1 Features of Precision Rotary Ball Screw / Spline

Precision rotary ba ll screw and sp line is designed to move linearly and rotational ly in one assemЬly, with symmetrical orientation design between the outer and inner ball screw or spline nut.
Both rotary and spiral movement caп Ье achieved simu ltaneously.
Precision rotary line is the most ideal key component in scara robots, industrial robots, pick & place, laser engraving, transporting and many other multi-directiona l application.

Feature

Zero clearance/ High rigidity
Precision rotary series featured 40° angular (Back to back) contact ang le with in in the bearing. It enaЬles self-a ligning with minor mounting error and bears higher axial load to achieve better accuracy. Custom preload caп Ье applied to reduce clearance and increase high rigidity. (as shown in Fig 2.1.1)

High speed/ Smooth running performance
The rotary series uses Precision high lead screw to maintain high speed and smoothness during operating.

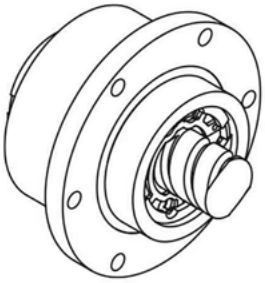
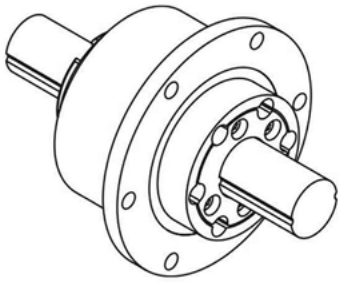
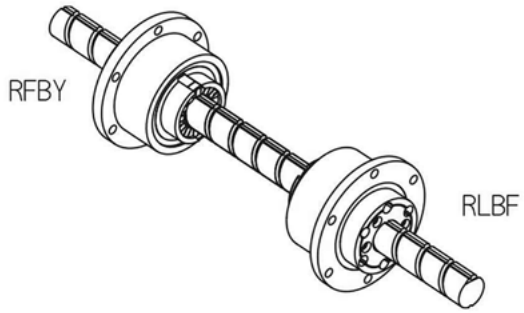
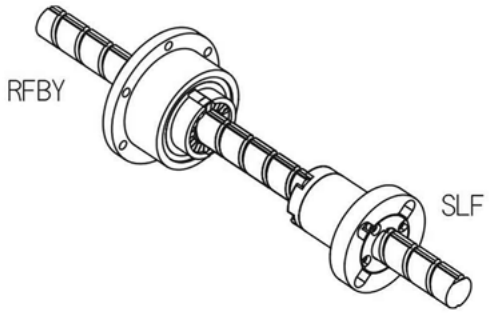
Noise reduction
The precision ground screw thread and spl ine groove make sure the ball bearing travel fluently during operations which reduce the skidding, friction and noise level and thus improve the service performance and life.

Easy-Assembly/Compadness
Precision rotary line features a one-piece compact and easy mounting design.

Accuracy

Please refer to chart D05-09 for deta il.
Spline alternative
Precision offers customized end for bal l sp line. Hol low spl ine is also ava i laЬle for special operation requirement such as pipe or wire -arrangement, evacuating and light weight

Table 2.1.1 Mass series

Rotary Ball Screw - RFBY Type	Rotary Ball Spline - RLBF Type
	
Ball Screw/Spline - RBBY Type	**Ball Screw/Spline - RBLY Type**
	

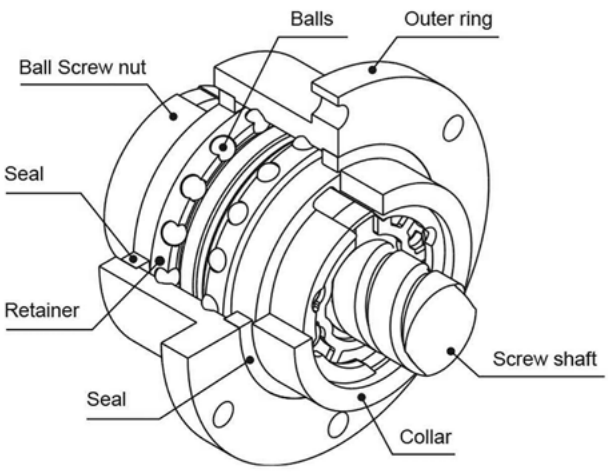


Fig 2.1.2 The Structure of RFBY - series

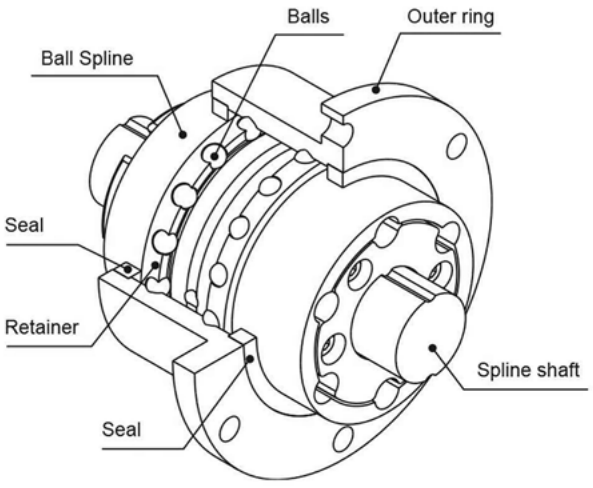
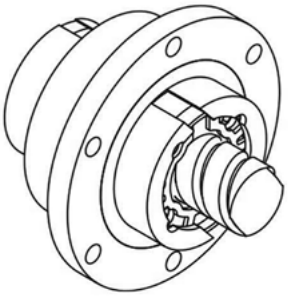
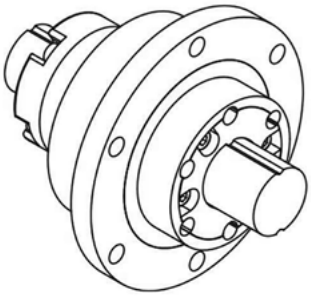
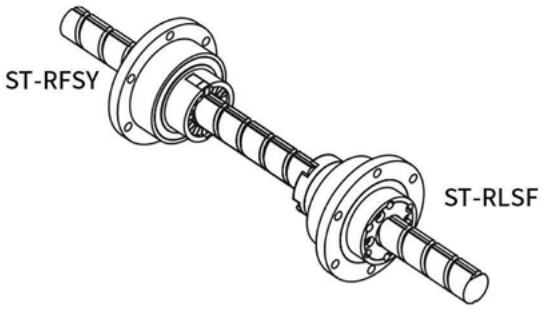
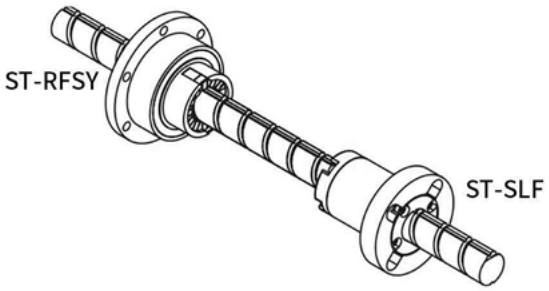


Fig 2.1.3 The Structure of RLBF - series

Table 2.1.2 Compact series

ROTARY BALL SCREW - ST-RFSY TYPE	ROTARY BALL SPLINE - ST-RLSF TYPE
	
BALL SCREW / SPLINE - ST-RSSY TYPE	**BALL SCREW / SPLINE - ST-RSLY TYPE**
	

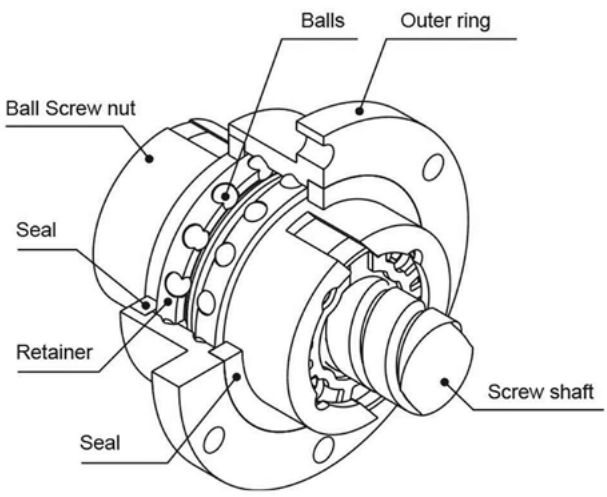


Fig 2.1. 4 The Structure of ST-RFSY - series

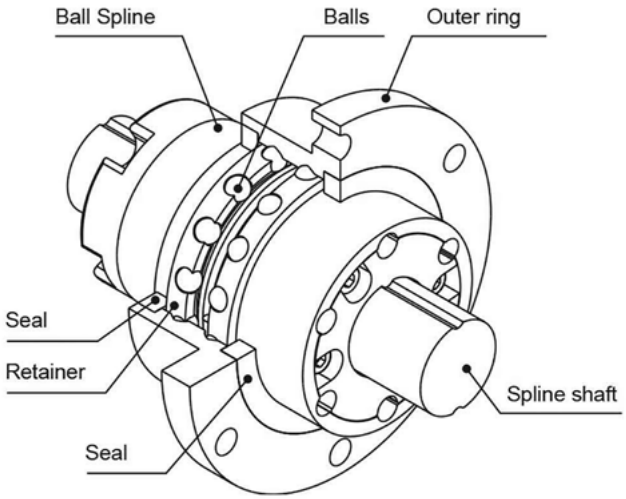


Fig 2.1.5 The Structure of RLSF-series

Precision Ground Ball Screw Series

2.2 Accuracy

2.2.1 ST-RBBY, ST-RBLY Accuracy Standards

The Ball Screw/Spline is manufactured as the following specifications.

【Ball Screw】

Axial clearance : 0 or less
Lead accuracy : C5
(Refer to C06 for more details)

【Ball Spline】

Clearance in the rotational direction : 0 or less
(P1 : light preload)
(Refer to B20-21 for more details)
Accuracy grade : class H
(Refer to B22 for more details)

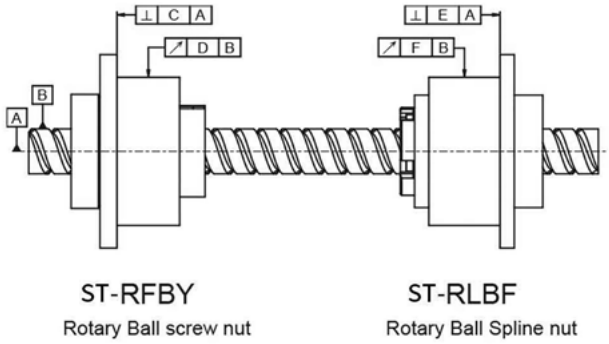


Fig 2.2.1 ST-RBBY - series

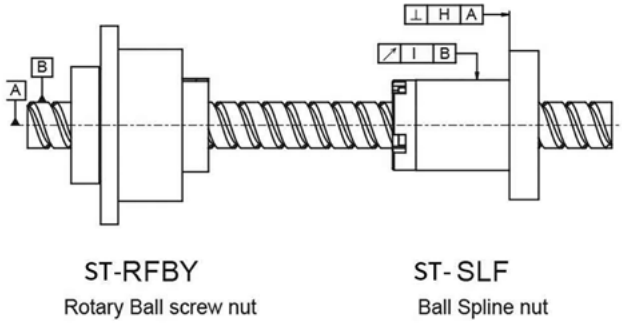
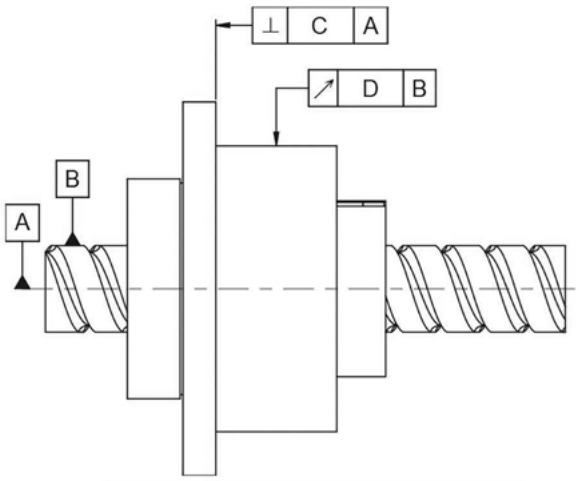


Fig 2.2.2 ST-RBLY - series

Model No.	C	D	E	F	H	I
ST-RBBY01616 ST-RBLY01616	0.018	0.021	0.016	0.020	0.013	0.016
ST-RBBY02020 ST-RBLY02020	0.018	0.021	0.016	0.020	0.013	0.016
ST-RBBY02525 ST-RBLY02525	0.021	0.021	0.018	0.024	0.016	0.016
ST-RBBY03232 ST-RBLY03232	0.021	0.021	0.018	0.024	0.016	0.016
ST-RBBY04040 ST-RBLY04040	0.025	0.025	0.021	0.033	0.019	0.019
ST-RBBY05050 ST-RBLY05050	0.025	0.025	0.021	0.033	0.019	0.019

2.2.2 ST-RFBY Accuracy Standards

The accuracy of model ST-RFBY is according to JIS standard (JIS B 1192-1997) except for the circular runout of Ball Screw axis(D) and the perpendicularity of the flange-mounting surface against the screw axis (C).



FIA 2.2.3 ST-RFBY - SERIES

Unit : mm

Lead angle accuracy	Rolled C7		Rolled C10		Ground C7		Ground C5		Ground C3	
Model No.	C	D	C	D	C	D	C	D	C	D
ST-RFBY01616	0.035	0.065	0.035	0.065	0.023	0.035	0.016	0.020	0.013	0.017
ST-RFBY02020	0.035	0.065	0.035	0.065	0.023	0.035	0.016	0.020	0.013	0.017
ST-RFBY02525	0.035	0.065	0.035	0.065	0.023	0.035	0.018	0.024	0.015	0.020
ST-RFBY03232	0.035	0.065	0.035	0.065	0.023	0.035	0.018	0.024	0.015	0.020
ST-RFBY04040	0.046	0.086	0.046	0.086	0.026	0.046	0.021	0.033	0.018	0.026
ST-RFBY05050	0.046	0.086	0.046	0.086	0.026	0.046	0.021	0.033	0.018	0.026

Precision Ground Ball Screw Series

2.2.3 ST-RSSY RSLY Accuracy Standards

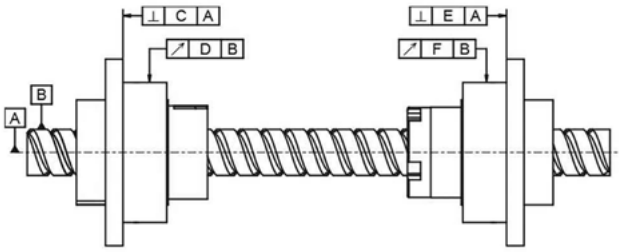
The Ball Screw/Spline is manufactured as the following specifications.

【Ball Screw】

Axial clearance : 0 or less
Lead accuracy : C5
(Refer to C06 for more details)

【Ball Spline】

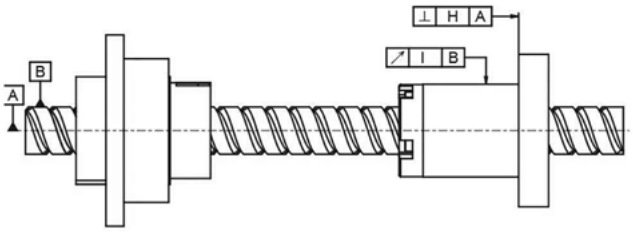
Clearance in the rotational direction : 0 or less
(P1 : light preload)
(Refer to B20-21 for more details)
Accuracy grade : class H
(Refer to B22 for more details)



ST-RFSY
Rotary Ball screw nut

ST-RLSF
Rotary Ball Spline nut

Fig 2.2.4 ST-RSSY-series



ST-RFSY
Rotary Ball screw nut

ST-SLF
Ball Spline nut

Fig 2.2.5ST-RSLY-series

Model No.	C	D	E	F	H	I
ST-RSSY01616 ST-RSLY01616	0.018	0.021	0.016	0.020	0.013	0.016
ST-RSSY02020 ST-RSLY02020	0.018	0.021	0.016	0.020	0.013	0.016
ST-RSSY02525 ST-RSLY02525	0.021	0.021	0.018	0.024	0.016	0.016
ST-RSSY03232 ST-RSLY03232	0.021	0.021	0.018	0.024	0.016	0.016
ST-RSSY04040 ST-RSLY04040	0.025	0.025	0.021	0.033	0.019	0.019

2.2.4 RFSY Accuracy Standards

The accuracy of model ST-RFBY is according to JIS standard (JIS B 1192-1997) except for the circular runout of Ball Screw axis(D) and the perpendicularity of the flange-mounting surface against the screw axis (C).

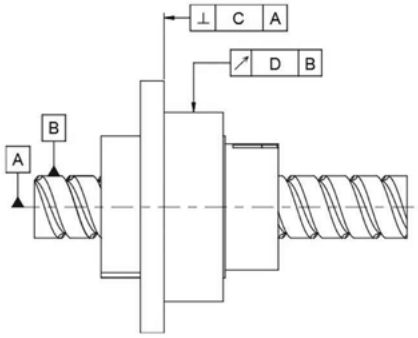


Fig 2.2.3 ST-RFBY - series

Precision Rotary Ball

Unit : mm

Lead angle accuracy	Rolled C7		Rolled C10		Ground C7		Ground C5		Ground C3	
Model No.	C	D	C	D	C	D	C	D	C	D
ST-RFSY01616	0.035	0.065	0.035	0.065	0.023	0.035	0.016	0.020	0.013	0.017
ST-RFSY02020	0.035	0.065	0.035	0.065	0.023	0.035	0.016	0.020	0.013	0.017
ST-RFSY02525	0.035	0.065	0.035	0.065	0.023	0.035	0.018	0.024	0.015	0.020
ST-RFSY03232	0.035	0.065	0.035	0.065	0.023	0.035	0.018	0.024	0.015	0.020
ST-RFSY04040	0.046	0.086	0.046	0.086	0.026	0.046	0.021	0.033	0.018	0.026

2.2.5 ST-RLBF RLSF Accuracy Standards

Accuracy Grades

The accuracy of the Ball Spline is determined by the nodding action of the spline-nut and classified into three accuracy class : Normal(N), High(H) and Precision(P).

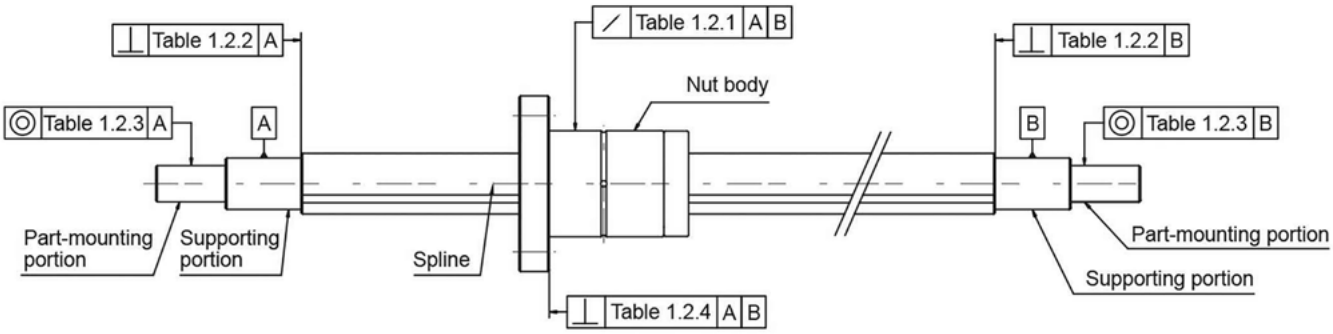


Fig 2.2.5

Accuracy Specification

Tables 2.2.1 ~ 5 indicate the the measurement items of Ball Spline.

Table 2.2.1 The Maximum nodding action of Spline Nut on the support unit. Unit : μm

Length \ Nominal Diameter		16, 20			25, 32			40, 50		
Above	Below	N	H	P	N	H	P	N	H	P
-	200	56	34	18	53	32	18	53	32	16
200	315	71	45	25	58	39	21	58	36	19
315	400	83	53	31	70	44	25	63	39	21
400	500	95	62	38	78	50	29	68	43	24
500	630	112	-	-	88	57	34	74	47	27
630	800	-	-	-	103	68	42	84	54	32

Table 2.2.2 The Maximum nodding action of Spline shaft end on the support unit. Unit : μm

Nominal Diameter \ Accuracy		Normal (N)	High (H)	Precision (P)
16	20	27	11	8
25	32	33	13	9
40	50	39	16	11

Table 2.2.3 The concentricity between components assembly part and attach surface. Unit : μm

Nominal Diameter \ Accuracy		Normal (N)	High (H)	Precision (P)
16	20	46	19	12
25	32	53	22	13
40	50	62	25	15

Table 2.2.4 The perpendicularity of flange on the attach surface Unit : μm

Nominal Diameter \ Accuracy				Normal (N)	High (H)	Precision (P)
16	20	25	32	30	16	11
40		50		46	19	13

Table 2.2.5 The accuracy grade on the effective length accuracy Unit : μm

Accuracy	Normal (N)	High (H)	Precision (P)
Permissible Value	33	13	6

Precision Rotary Ball

2.3 Example of assembly- ST-RFBY

2.3.1 Example of Mounting Rotary Ball Screw Nut Model RFBY

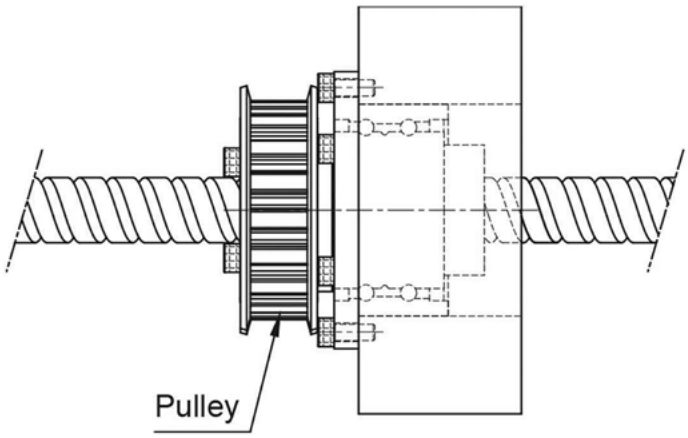


Fig 2.3.1

Example of Mounting Model ST-RFBY

(1) Ball screw nut fixed, screw shaft floated. (Suitable for a long table)

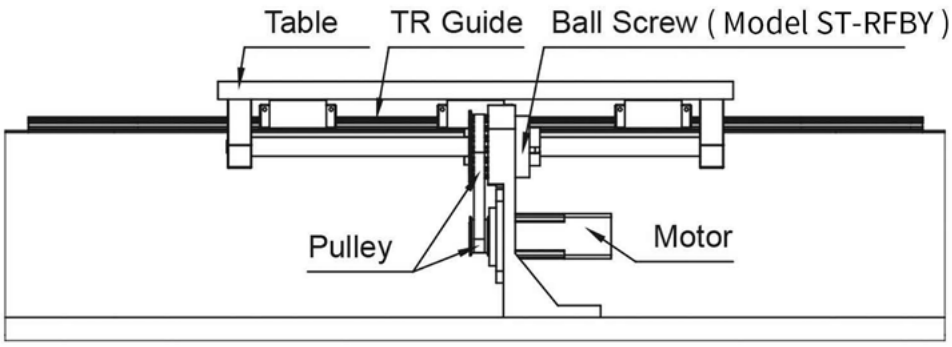


Fig 2.3.2

(2) Ball screw nut floated, screw shaft fixed. (Suitable for a short table and a long stroke)

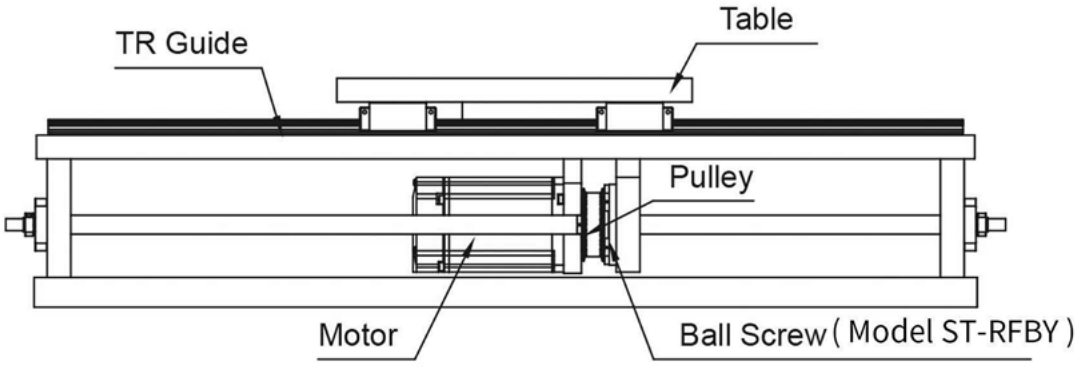


Fig 2.3.3

Precision Rotary Ball

2.4 Example of assembly - ST-RBBY

2.4.1 Example of Mounting Precision Ball Screw / Spline Model ST-RBBY

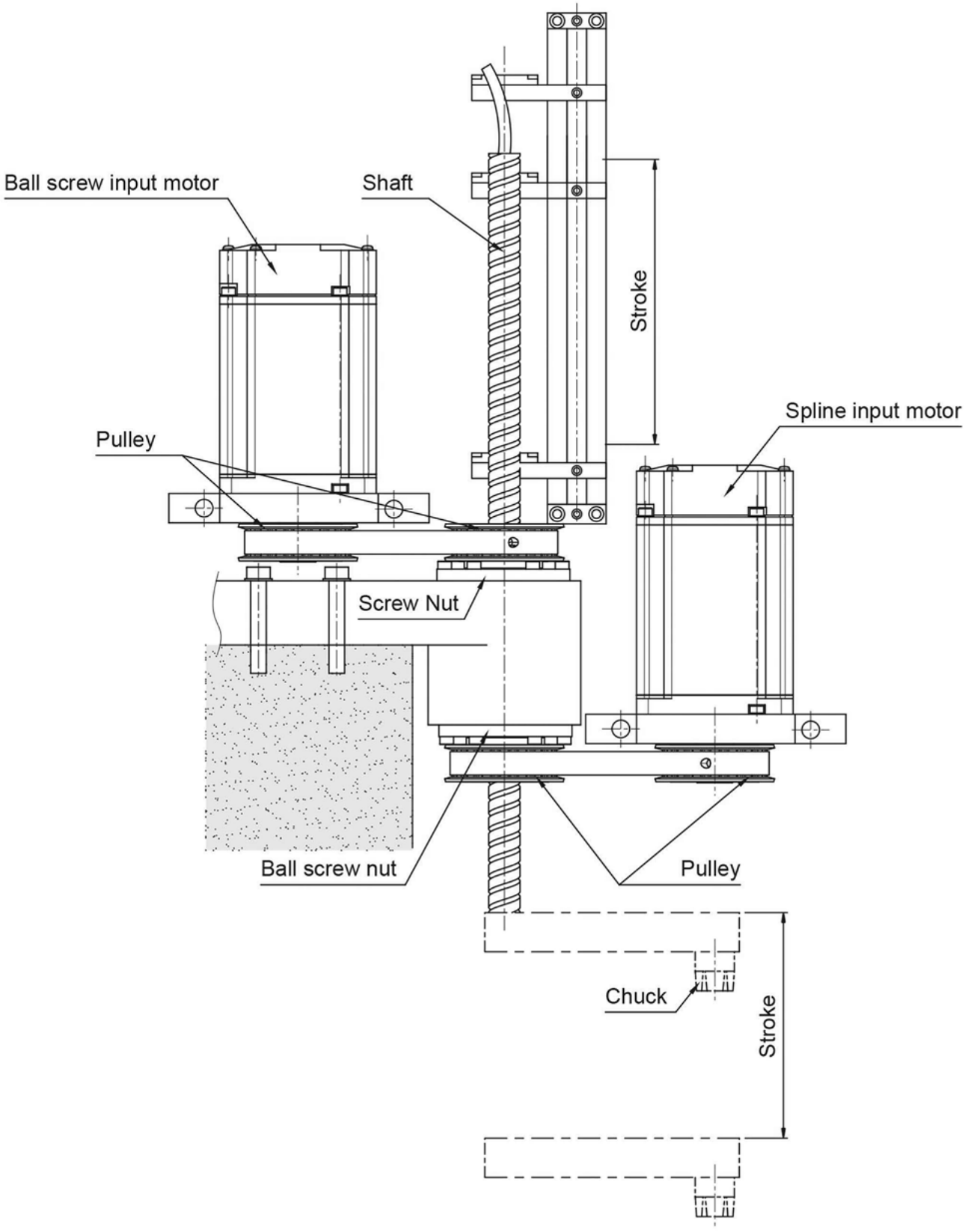


Fig 2.4.1

Precision Rotary Ball

2.5 Nominal Model Code of Rotary Series

STRFSY R 016 16 A2 N G C5 - 500 - P0 (2A)

①–⑪

① Nominal Model	② Threading Direction	③ Nominal Diameter	④ Lead
ST-RFSY	R : Right	Unit : mm	Unit : mm
ST-RFBY			

⑤ Number of Turns (Turn·Row)	⑥ Flange Type	⑦ Product Code	⑧ Accuracy Grade
Turn : A : 1.8	N : Round	G : Ground	C0, C1, C2, C3, C5, C7, C10
ex : (1.8×2 = A2)		F : Rolled	

⑨ Overall Length of Shaft	⑩ Axial Clearance and Preload Value	⑪ Number of Grooves
Unit : mm	P0, P1, P2, P3, P4	1A : Single start screw
		2A : Doube start screw

Nominal Model Code of Rotary Ball Spline

STRLSF 016 T2 N N H - 500 - P0

①–⑧

① Nominal Model	② Nominal Diameter	③ Groove
RLSF	Unit : mm	T2 : 2 Rows
RLBF		T4 : 4 Rows

④ Flange Type	⑤ Accuracy Grade of Spline Shaft	⑥ Spline Shaft Type
N : Round	N : Normal	S : Solid
	H : High	H : Hollow
	P : Precision	

⑦ Overall Length of Shaft	⑧ Preload Value
Unit : mm	P0 : No preload
	P1 : Light preload
	P2 : Medium preload

Precision Rotary Ball

STRSSY	R	016	16	A1	G	C5	H	H	-	500	-	P1	(1A)
①	②	③	④	⑤	⑥	⑦	⑧	⑨		⑩		⑪	⑫

① Nominal Model	② Threading Direction	③ Nominal Diameter
ST-RSSY(ST-RFSY+ST-RLSF)	R : Right	Unit : mm
ST-RSLY(ST-RFSY+ST-SLF)		
ST-RBBY(ST-RFBY+ST-RLBF)		
ST-RBLY(ST-RFBY+ST-SLF)		

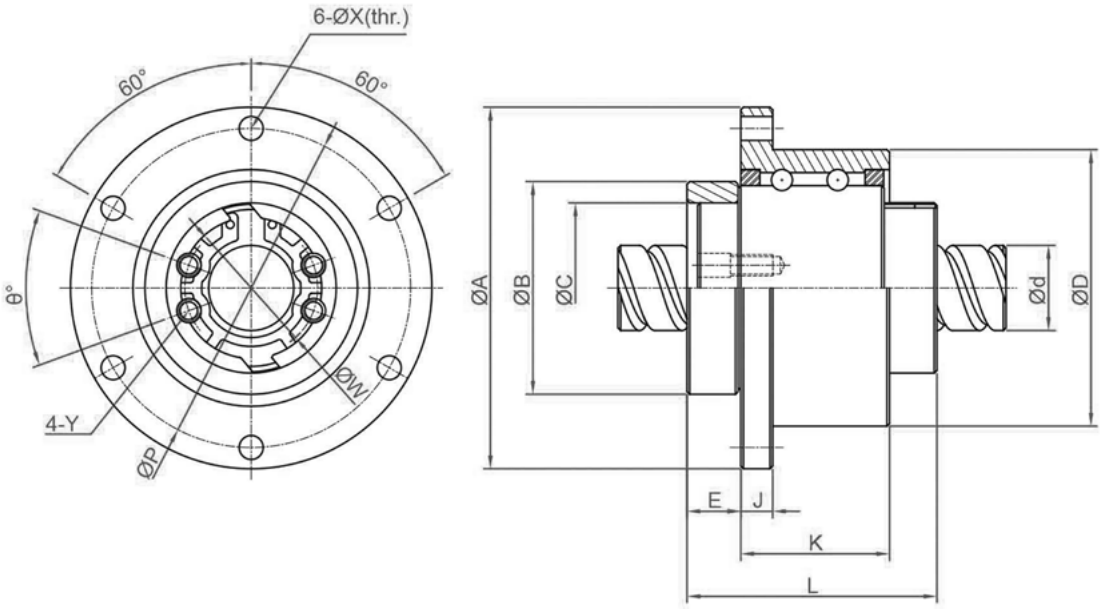
④ Lead	⑤ Number of Turns (Turn·Row)	⑥ Product Code
Unit : mm	Turn : A : 1.8	G : Ground
	ex : (1.8×1 = A1)	

⑦ Accuracy Grade of Ball Screw	⑧ Accuracy Grade of Spline Shaft	⑨ Spline Shaft Type
C5	H : High	S : Solid
		H : Hollow

⑩ Overall Length of Assembly	⑪ Preload Value	⑫ Number of Grooves
Unit : mm	P1 : Light preload	1A : Single start screw

Precision Rotary Ball

ST — RFBY series specification

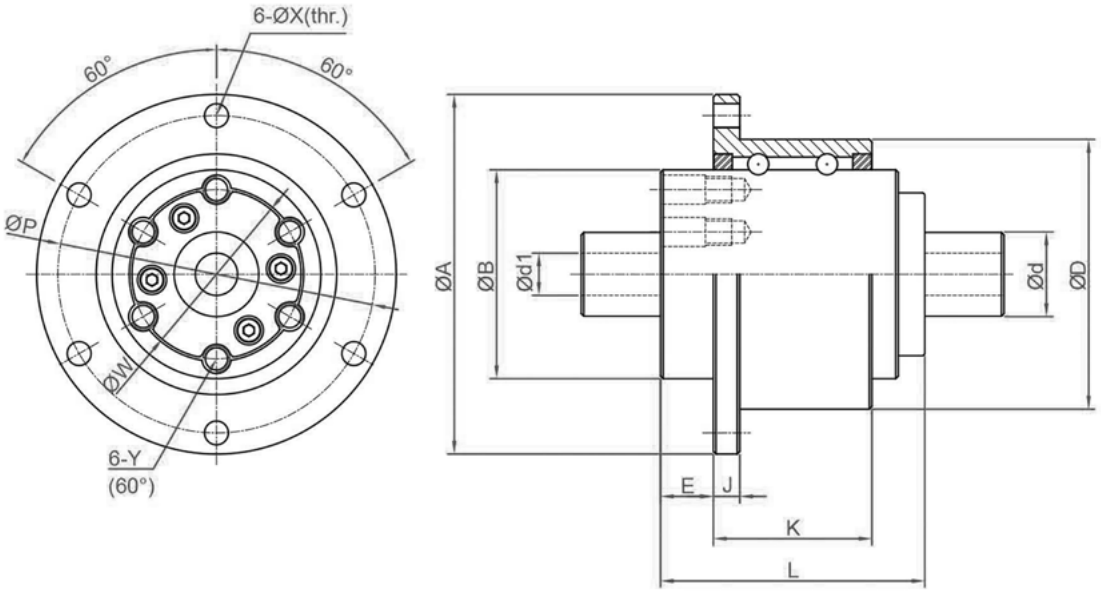


Unit : mm

Model No.	d	l	Da	n	Support Bearing Load Rating		Ball Screw Nut Dimension												Screw Nut Load Rating	
					Ca (kgf)	Coa (kgf)	D	A	B	L	C	E	J	K	P	X	W	Y	θ	Ca (kgf)	Coa (kgf)
RFBY01616-1.8	16	16	2.778	1.8x1	750	1593	$52^{0}_{-0.007}$	68	$40^{0}_{-0.025}$	47	$32^{+0.025}_{0}$	10.1	6	28	60	4.5	25	M4	40	591	1275
RFBY01616-3.6	16	16	2.778	1.8x2	750	1593	$52^{0}_{-0.007}$	68	$40^{0}_{-0.025}$	47	$32^{+0.025}_{0}$	10.1	6	28	60	4.5	25	M4	40	1073	2551
RFBY02020-1.8	20	20	3.175	1.8x1	1066	2452	$62^{0}_{-0.007}$	78	$50^{0}_{-0.025}$	53.5	$39^{+0.025}_{0}$	11	7	34.5	70	4.5	31	M5	40	764	1758
RFBY02020-3.6	20	20	3.175	1.8x2	1066	2452	$62^{0}_{-0.007}$	78	$50^{0}_{-0.025}$	53.5	$39^{+0.025}_{0}$	11	7	34.5	70	4.5	31	M5	40	1387	3515
RFBY02525-1.8	25	25	3.969	1.8x1	1119	2765	$72^{0}_{-0.007}$	92	$58^{0}_{-0.03}$	65	$47^{+0.025}_{0}$	15.8	8	35	81	5.5	38	M6	40	1142	2747
RFBY02525-3.6	25	25	3.969	1.8x2	1119	2765	$72^{0}_{-0.007}$	92	$58^{0}_{-0.03}$	65	$47^{+0.025}_{0}$	15.8	8	35	81	5.5	38	M6	40	2074	5494
RFBY03232-1.8	32	32	4.762	1.8x1	2087	5586	$80^{0}_{-0.007}$	105	$66^{0}_{-0.03}$	81	$58^{+0.03}_{0}$	21.5	9	42.5	91	6.6	48	M6	40	1664	4345
RFBY04040-1.8	40	40	6.35	1.8x1	3183	9306	$110^{0}_{-0.008}$	140	$90^{0}_{-0.035}$	102	$73^{+0.03}_{0}$	16.5	11	64.5	123	9	61	M8	50	2662	7031
RFBY05050-1.8	50	50	7.938	1.8x1	4328	12573	$120^{0}_{-0.008}$	156	$100^{0}_{-0.035}$	121	$90^{+0.035}_{0}$	29	12	70	136	11	75	M10	50	3978	10987

Precision Rotary Ball

ST — RLBF series specification

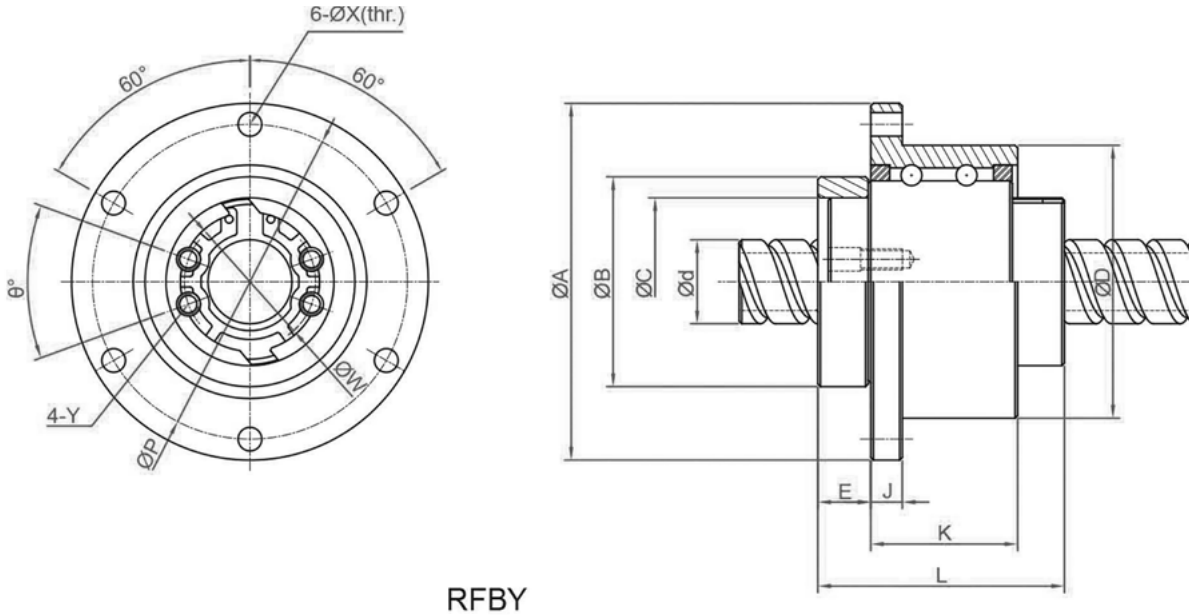


Unit : mm

Model No.	d	d1	Ball Ø	Row	Support Bearing Load Rating		Spline Nut Dimension										Ball Spline Load Rating	
					Ca (kgf)	Coa (kgf)	D	A	B	L	E	J	K	P	X	W	Y	Ca (kgf)	Coa (kgf)
RLBF016	16	8	2.778	2	746	1597	$52^{0}_{-0.007}$	68	$39.5^{0}_{-0.025}$	50	10	5	30	60	4.5	32	M5	545	849
RLBF020	20	10	3.175	2	1011	2138	$56^{0}_{-0.007}$	72	$43.5^{0}_{-0.025}$	63	12	6	42	64	4.5	36	M5	736	1124
RLBF025	25	15	3.5	4	1558	4616	$62^{0}_{-0.007}$	78	$53^{0}_{-0.03}$	71	13	6	49	70	4.5	45	M6	1003	1593
RLBF032	32	16	3.969	4	2087	5586	$80^{0}_{-0.007}$	105	$65.5^{0}_{-0.03}$	80	17	9	54	91	6.6	55	M6	1324	2251
RLBF040	40	20	6.35	4	3141	8705	$100^{0}_{-0.008}$	130	$79.5^{0}_{-0.03}$	100	23	11	63	113	9	68	M6	2972	4033
RLBF050	50	26	7.144	4	4317	12585	$120^{0}_{-0.008}$	156	$99.5^{0}_{-0.035}$	125	25	12	87	136	11	85	M10	4086	5615

Precision Rotary Ball

ST — RBBY series specification

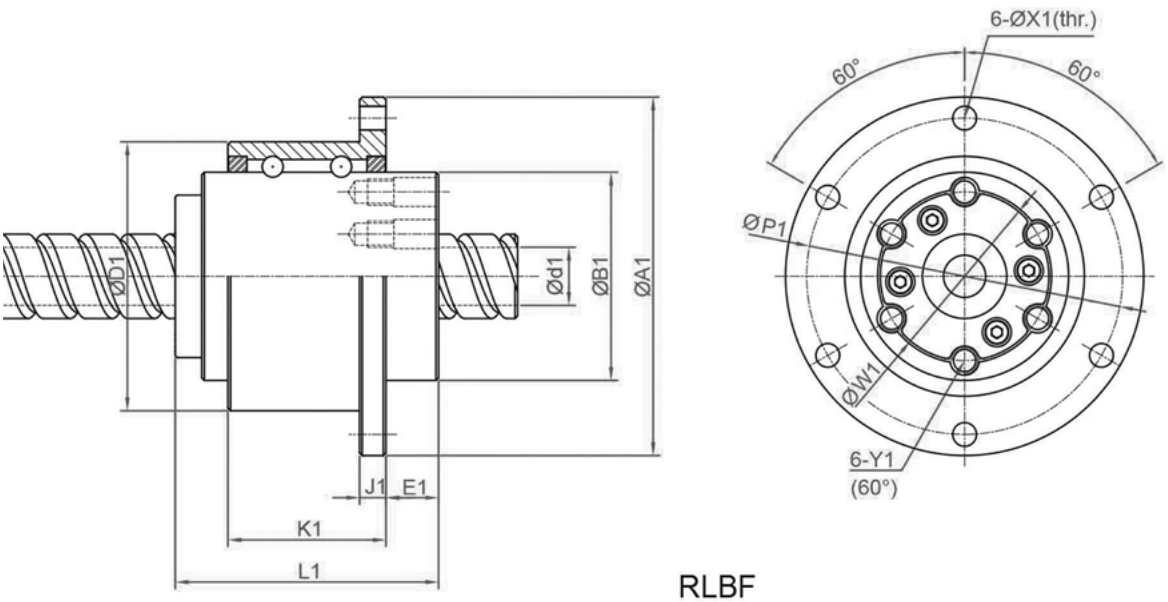


RFBY

Unit : mm

Model No.	d	l	Da	n	Support Bearing Load Rating		Ball Screw Nut Dimension													Screw Nut Load Rating	
					Ca (kgf)	Coa (kgf)	D	A	B	L	C	E	J	K	P	X	W	Y	θ	Ca (kgf)	Coa (kgf)
RBBY01616-1.8	16	16	2.778	1.8x1	750	1593	$52^{0}_{-0.007}$	68	$40^{0}_{-0.025}$	47	$32^{+0.025}_{0}$	10.1	6	28	60	4.5	25	M4	40	591	1275
RBBY02020-1.8	20	20	3.175	1.8x1	1066	2452	$62^{0}_{-0.007}$	78	$50^{0}_{-0.025}$	53.5	$39^{+0.025}_{0}$	11	7	34.5	70	4.5	31	M5	40	764	1758
RBBY02525-1.8	25	25	3.969	1.8x1	1119	2765	$72^{0}_{-0.007}$	92	$58^{0}_{-0.03}$	65	$47^{+0.025}_{0}$	15.8	8	35	81	5.5	38	M6	40	1142	2747
RBBY03232-1.8	32	32	4.762	1.8x1	2087	5586	$80^{0}_{-0.007}$	105	$66^{0}_{-0.03}$	81	$58^{+0.03}_{0}$	21.5	9	42.5	91	6.6	48	M6	40	1664	4345
RBBY04040-1.8	40	40	6.35	1.8x1	3183	9306	$110^{0}_{-0.008}$	140	$90^{0}_{-0.035}$	102	$73^{+0.03}_{0}$	16.5	11	64.5	123	9	61	M8	50	2662	7031
RBBY05050-1.8	50	50	7.938	1.8x1	4328	12573	$120^{0}_{-0.008}$	156	$100^{0}_{-0.035}$	121	$90^{+0.035}_{0}$	29	12	70	136	11	75	M10	50	3978	10987

Precision Rotary Ball



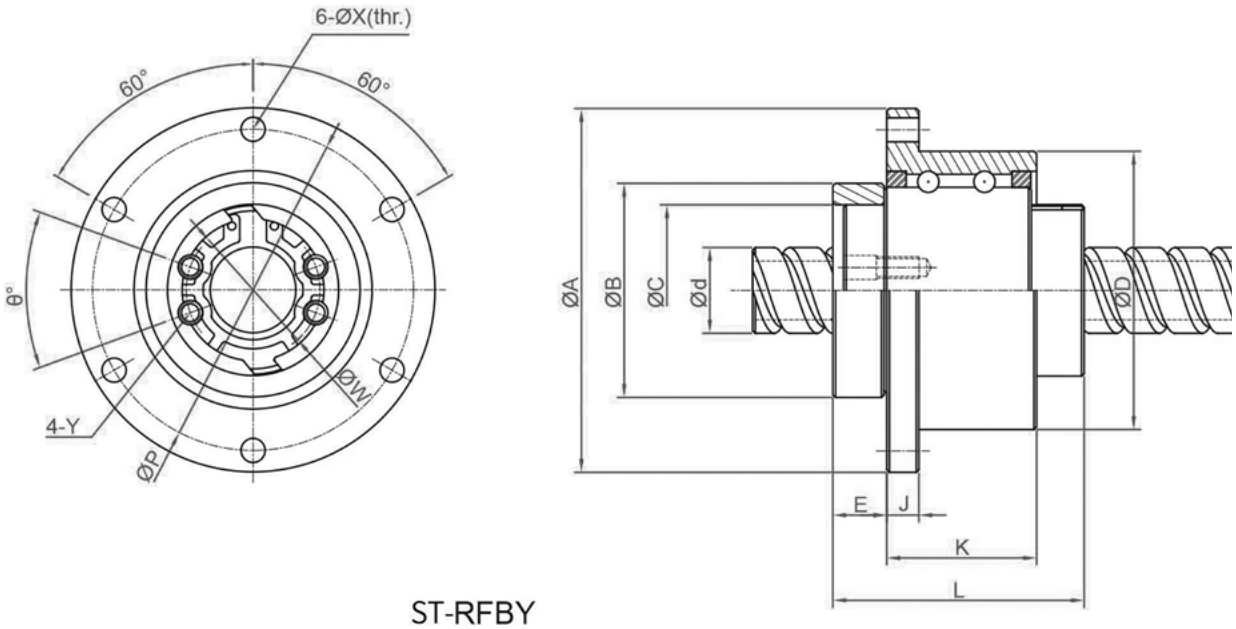
RLBF

Unit : mm

Model No.	d	d1	Ball Ø	Row	Support Bearing Load Rating		Spline Nut Dimension										Ball Spline Load Rating	
					Ca (kgf)	Coa (kgf)	D1	A1	B1	L1	E1	J1	K1	P1	X1	W1	Y1	Ca (kgf)	Coa (kgf)
RBBY01616	16	11	2.778	2	746	1597	$52\ ^{0}_{-0.007}$	68	$39.5\ ^{0}_{-0.025}$	50	10	5	30	60	4.5	32	M5	545	849
RBBY02020	20	14	3.175	2	1011	2138	$56\ ^{0}_{-0.007}$	72	$43.5\ ^{0}_{-0.025}$	63	12	6	42	64	4.5	36	M5	736	1124
RBBY02525	25	18	3.5	4	1558	4616	$62\ ^{0}_{-0.007}$	78	$53\ ^{0}_{-0.03}$	71	13	6	49	70	4.5	45	M6	1003	1593
RBBY03232	32	23	3.969	4	2087	5586	$80\ ^{0}_{-0.007}$	105	$65.5\ ^{0}_{-0.03}$	80	17	9	54	91	6.6	55	M6	1324	2251
RBBY04040	40	29	6.35	4	3141	8705	$100\ ^{0}_{-0.008}$	130	$79.5\ ^{0}_{-0.03}$	100	23	11	63	113	9	68	M6	2972	4033
RBBY05050	50	36	7.144	4	4317	12585	$120\ ^{0}_{-0.008}$	156	$99.5\ ^{0}_{-0.035}$	125	25	12	87	136	11	85	M10	4086	5615

Precision Rotary Ball

ST — RBLY series specification

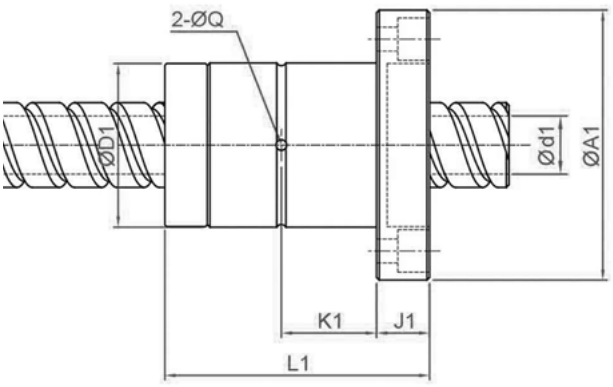


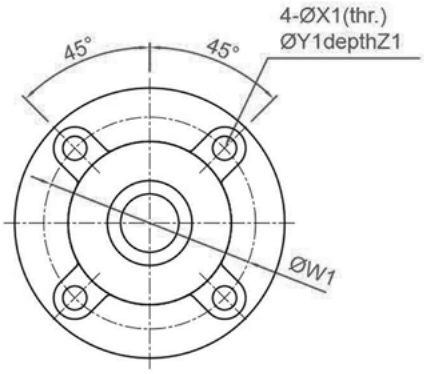
ST-RFBY

Unit : mm

Model No.	d	l	Da	n	Support Bearing Load Rating		Ball Screw Nut Dimension												Screw Nut Load Rating	
					Ca (kgf)	Coa (kgf)	D	A	B	L	C	E	J	K	P	X	W	Y	θ	Ca (kgf)	Coa (kgf)
RBLY01616-1.8	16	16	2.778	1.8x1	750	1593	$52^{0}_{-0.007}$	68	$40^{0}_{-0.025}$	47	$32^{+0.025}_{0}$	10.1	6	28	60	4.5	25	M4	40	591	1275
RBLY02020-1.8	20	20	3.175	1.8x1	1066	2452	$62^{0}_{-0.007}$	78	$50^{0}_{-0.025}$	53.5	$39^{+0.025}_{0}$	11	7	34.5	70	4.5	31	M5	40	764	1758
RBLY02525-1.8	25	25	3.969	1.8x1	1119	2765	$72^{0}_{-0.007}$	92	$58^{0}_{-0.03}$	65	$47^{+0.025}_{0}$	15.8	8	35	81	5.5	38	M6	40	1142	2747
RBLY03232-1.8	32	32	4.762	1.8x1	2087	5586	$80^{0}_{-0.007}$	105	$66^{0}_{-0.03}$	81	$58^{+0.03}_{0}$	21.5	9	42.5	91	6.6	48	M6	40	1664	4345
RBLY04040-1.8	40	40	6.35	1.8x1	3183	9306	$110^{0}_{-0.008}$	140	$90^{0}_{-0.035}$	102	$73^{+0.03}_{0}$	16.5	11	64.5	123	9	61	M8	50	2662	7031
RBLY05050-1.8	50	50	7.938	1.8x1	4328	12573	$120^{0}_{-0.008}$	156	$100^{0}_{-0.035}$	121	$90^{+0.035}_{0}$	29	12	70	136	11	75	M10	50	3978	10987

Precision Rotary Ball





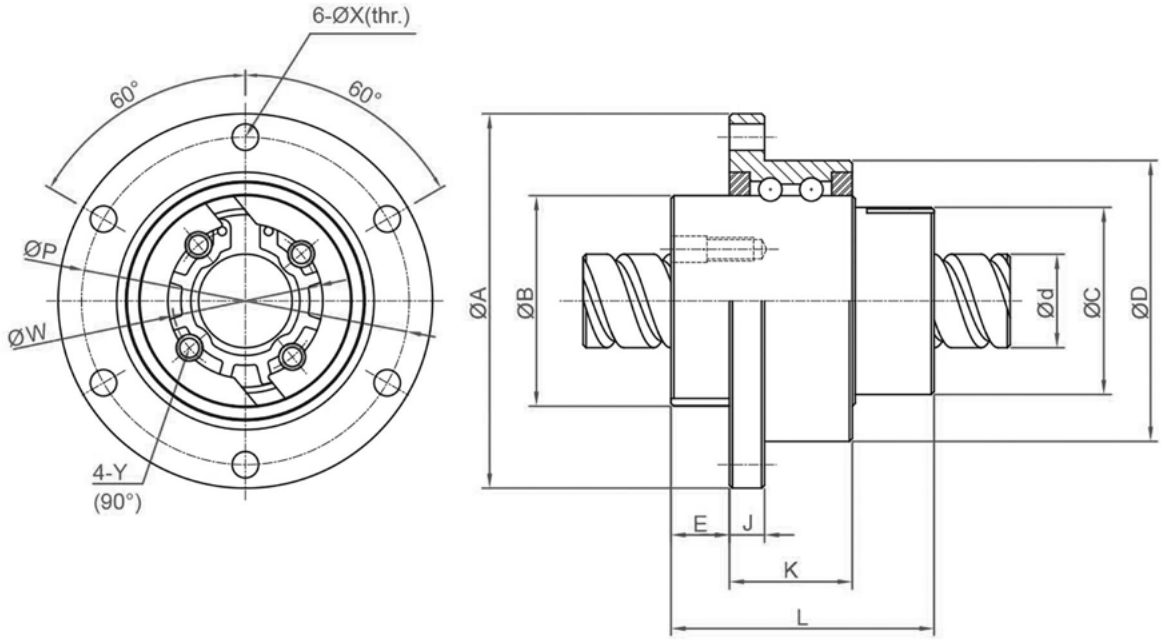
ST-SLF

Unit : mm

Model No.	d	d1	Row	Spline Nut Dimension										Ball Spline Load Rating	
				D1	A1	L1	J1	K1	W1	X1	Y1	Z1	Q	Ca (kgf)	Coa (kgf)
RBLY01616	16	11	2	$31^{0}_{-0.016}$	51	50	10	18	40	4.5	8	6	2	545	849
RBLY02020	20	14	2	$35^{0}_{-0.016}$	58	56	10	18	45	5.5	9.5	5.4	2	724	1109
RBLY02525	25	18	4	$42^{0}_{-0.016}$	65	71	13	26.5	52	5.5	9.5	8	3	1003	1593
RBLY03232	32	23	4	$49^{0}_{-0.016}$	77	80	13	30	62	6.6	11	6.5	3	1324	2251
RBLY04040	40	29	4	$64^{0}_{-0.019}$	100	100	18	36	82	9	14	12	4	2972	4033
RBLY05050	50	36	4	$80^{0}_{-0.019}$	124	125	20	46.5	102	11	17.5	12	4	4086	5615

Precision Rotary Ball

ST — RFSY series specification

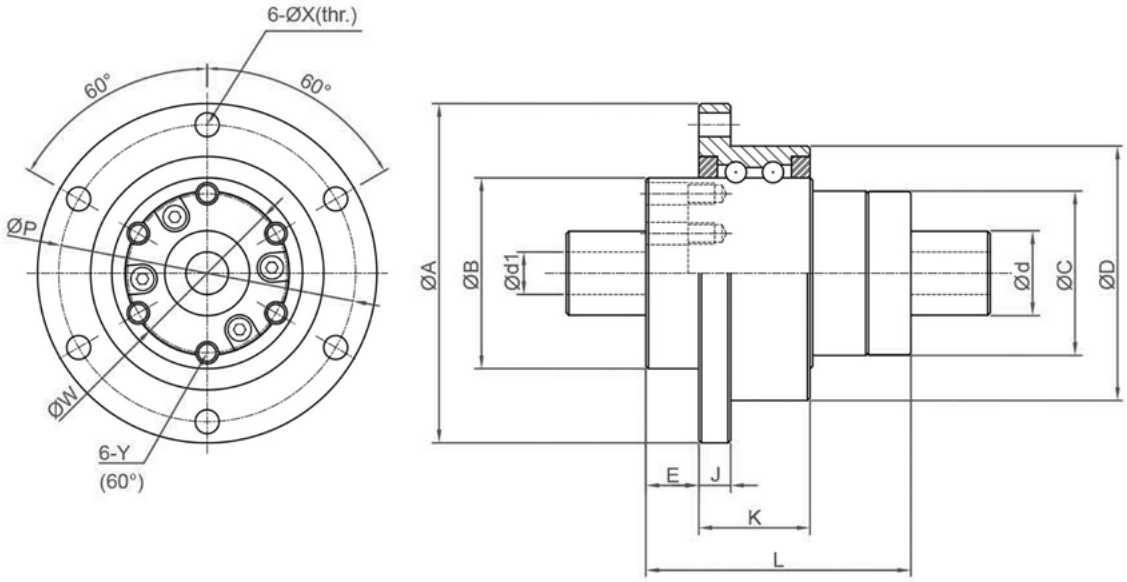


Unit : mm

Model No.	d	l	Da	n	Support Bearing Load Rating		Ball Screw Nut Dimension											Screw Nut Load Rating	
					Ca (kgf)	Coa (kgf)	D	A	B	L	C	E	J	K	P	X	W	Y	Ca (kgf)	Coa (kgf)
RFSY01616-1.8	16	16	2.778	1.8x1	730	1484	$48^{-0.009}_{-0.025}$	64	$36^{0}_{-0.025}$	45	32	10	6	21	56	4.5	25	M4	591	1275
RFSY01616-3.6	16	16	2.778	1.8x2	730	1484	$48^{-0.009}_{-0.025}$	64	$36^{0}_{-0.025}$	45	32	10	6	21	56	4.5	25	M4	1073	2551
RFSY02020-1.8	20	20	3.175	1.8x1	788	1811	$56^{0.01}_{-0.029}$	72	$43.5^{0}_{-0.025}$	52	39	11	6	21	64	4.5	31	M5	764	1758
RFSY02020-3.6	20	20	3.175	1.8x2	788	1811	$56^{0.01}_{-0.029}$	72	$43.5^{0}_{-0.025}$	52	39	11	6	21	64	4.5	31	M5	1387	3515
RFSY02525-1.8	25	25	3.969	1.8x1	1094	2607	$66^{0.01}_{-0.029}$	86	$52^{0}_{-0.03}$	64	47	13	7	25	75	5.5	38	M6	1142	2747
RFSY02525-3.6	25	25	3.969	1.8x2	1094	2607	$66^{0.01}_{-0.029}$	86	$52^{0}_{-0.03}$	64	47	13	7	25	75	5.5	38	M6	2074	5494
RFSY03232-1.8	32	32	4.762	1.8x1	1191	3233	$78^{0.01}_{-0.029}$	103	$63^{0}_{-0.03}$	78	58	14	8	25	89	6.6	48	M6	1664	4345
RFSY04040-1.8	40	40	6.35	1.8x1	2216	6685	$100^{0.012}_{-0.034}$	130	$79.5^{0}_{-0.035}$	99	73	16.5	10	33	113	9	61	M8	2662	7031

Precision Rotary Ball

ST — RLFS series specification

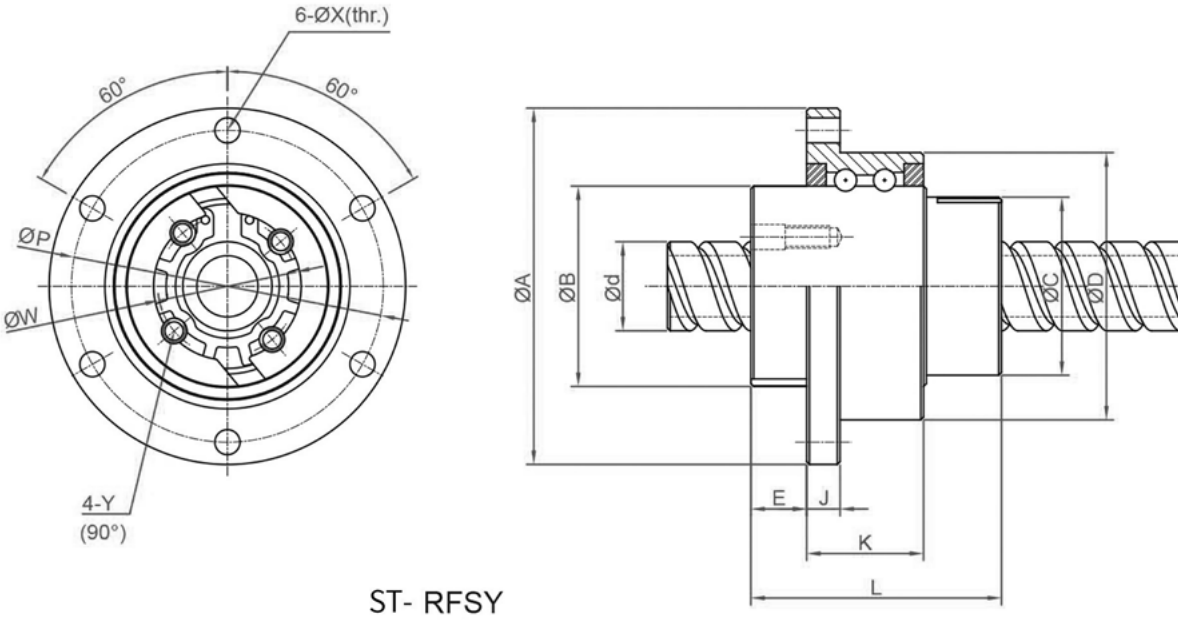


Unit : mm

Model No.	d	d1	Ball Ø	Row	Support Bearing Load Rating		Spline Nut Dimension											Ball Spline Load Rating	
					Ca (kgf)	Coa (kgf)	D	A	B	L	C	E	J	K	P	X	W	Y	Ca (kgf)	Coa (kgf)
RLSF016	16	8	2.778	2	730	1484	$48^{-0.009}_{-0.025}$	64	$36^{0}_{-0.025}$	50	31	10	6	21	56	4.5	30	M4	545	849
RLSF020	20	10	3.175	2	788	1811	$56^{-0.01}_{-0.029}$	72	$43.5^{0}_{-0.025}$	63	35	12	6	21	64	4.5	36	M5	736	1124
RLSF025	25	15	3.5	4	1094	2607	$66^{-0.01}_{-0.029}$	86	$52^{0}_{-0.03}$	71	42	13	7	25	75	5.5	44	M5	1003	1593
RLSF032	32	16	3.969	4	1191	3233	$78^{-0.01}_{-0.029}$	103	$63^{0}_{-0.03}$	80	52	17	8	25	89	6.6	54	M6	1324	2251
RLSF040	40	20	6.35	4	2216	6685	$100^{-0.012}_{-0.034}$	130	$79.5^{0}_{-0.035}$	100	64	20	10	33	113	9	68	M6	2972	4033

Precision Rotary Ball

ST — RSSY series specification

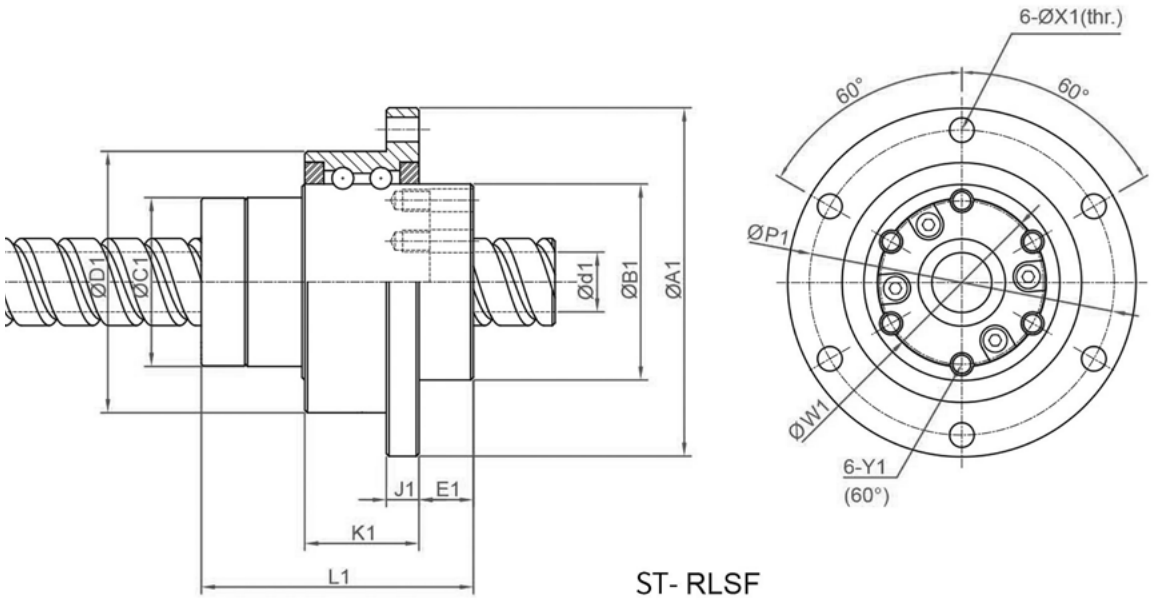


ST- RFSY

Unit : mm

Model No.	d	l	Da	n	Support Bearing Load Rating		Ball Screw Nut Dimension											Screw Nut Load Rating	
					Ca (kgf)	Coa (kgf)	D	A	B	L	C	E	J	K	P	X	W	Y	Ca (kgf)	Coa (kgf)
RSSY01616-1.8	16	16	2.778	1.8x1	730	1484	$48^{-0.009}_{-0.025}$	64	$36^{0}_{-0.025}$	45	32	10	6	21	56	4.5	25	M4	591	1275
RSSY02020-1.8	20	20	3.175	1.8x1	788	1811	$56^{0.01}_{-0.029}$	72	$43.5^{0}_{-0.025}$	52	39	11	6	21	64	4.5	31	M5	764	1758
RSSY02525-1.8	25	25	3.969	1.8x1	1094	2607	$66^{0.01}_{-0.029}$	86	$52^{0}_{-0.03}$	64	47	13	7	25	75	5.5	38	M6	1142	2747
RSSY03232-1.8	32	32	4.762	1.8x1	1191	3233	$78^{0.01}_{-0.029}$	103	$63^{0}_{-0.03}$	78	58	14	8	25	89	6.6	48	M6	1664	4345
RSSY04040-1.8	40	40	6.35	1.8x1	2216	6685	$110^{0.012}_{-0.034}$	130	$79.5^{0}_{-0.035}$	99	73	16.5	10	33	113	9	61	M8	2662	7031

Precision Rotary Ball

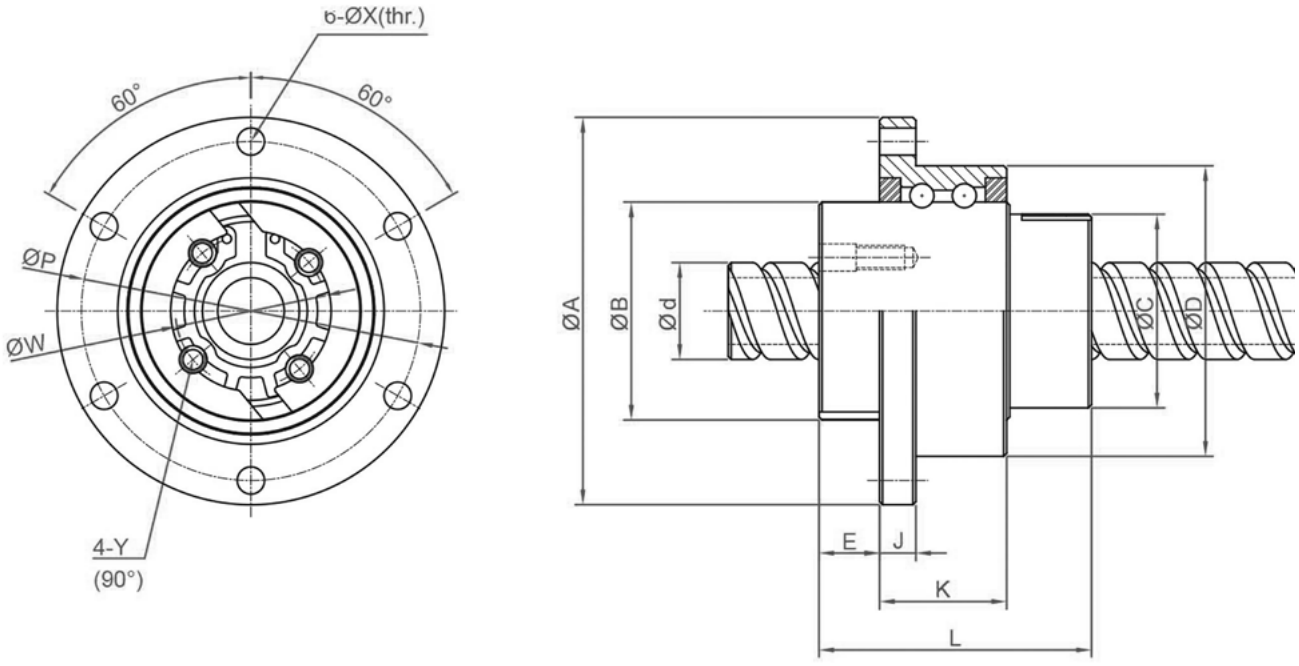


ST- RLSF

Model No.	d	d1	Ball Ø	Row	Support Bearing Load Rating		Spline Nut Dimension											Ball Spline Load Rating	
					Ca (kgf)	Coa (kgf)	D1	A1	B1	L1	C1	E1	J1	K1	P1	X1	W1	Y1	Ca (kgf)	Coa (kgf)
RSSY01616	16	11	2.778	2	730	1484	$48^{-0.009}_{-0.025}$	64	$36^{0}_{-0.025}$	50	31	10	6	21	56	4.5	30	M4	545	849
RSSY02020	20	14	3.175	2	788	1811	$56^{-0.01}_{-0.029}$	72	$43.5^{0}_{-0.025}$	63	35	12	6	21	64	4.5	36	M5	736	1124
RSSY02525	25	18	3.5	4	1094	2607	$66^{-0.01}_{-0.029}$	86	$52^{0}_{-0.03}$	71	42	13	7	25	75	5.5	44	M5	1003	1593
RSSY03232	32	23	3.969	4	1191	3233	$78^{-0.01}_{-0.029}$	103	$63^{0}_{-0.03}$	80	52	17	8	25	89	6.6	54	M6	1324	2251
RSSY04040	40	29	6.35	4	2216	6685	$100^{-0.012}_{-0.034}$	130	$79.5^{0}_{-0.035}$	100	64	20	10	33	113	9	68	M6	2972	4033

Precision Rotary Ball

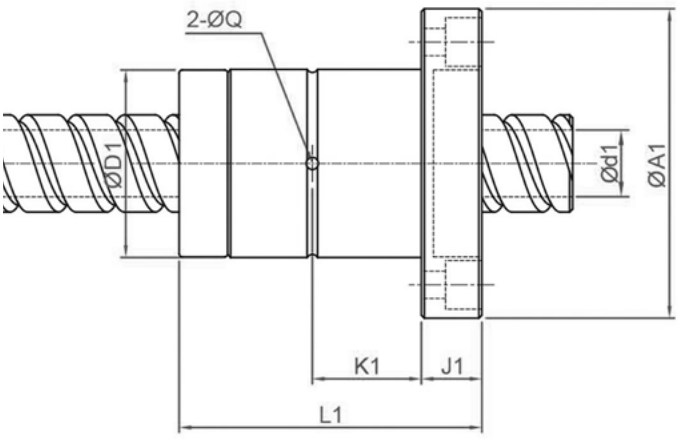
ST — RSLY series specification

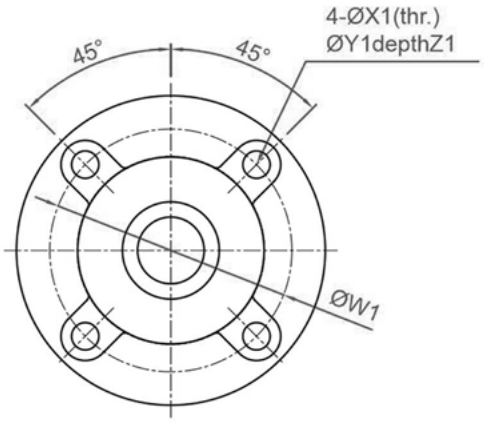


Unit : mm

Model No.	d	l	Da	n	Support Bearing Load Rating		Ball Screw Nut Dimension											Screw Nut Load Rating	
					Ca (kgf)	Coa (kgf)	D	A	B	L	C	E	J	K	P	X	W	Y	Ca (kgf)	Coa (kgf)
RSLY01616-1.8	16	16	2.778	1.8x1	730	1484	$48^{-0.009}_{-0.025}$	64	$36^{0}_{-0.025}$	45	32	10	6	21	56	4.5	25	M4	591	1275
RSLY02020-1.8	20	20	3.175	1.8x1	788	1811	$56^{-0.01}_{-0.029}$	72	$43.5^{0}_{-0.025}$	52	39	11	6	21	64	4.5	31	M5	764	1758
RSLY02525-1.8	25	25	3.969	1.8x1	1094	2607	$66^{-0.01}_{-0.029}$	86	$52^{0}_{-0.03}$	64	47	13	7	25	75	5.5	38	M6	1142	2747
RSLY03232-1.8	32	32	4.762	1.8x1	1191	3233	$78^{-0.01}_{-0.029}$	103	$63^{0}_{-0.03}$	78	58	14	8	25	89	6.6	48	M6	1664	4345
RSLY04040-1.8	40	40	6.35	1.8x1	2216	6685	$100^{-0.012}_{-0.034}$	130	$79.5^{0}_{-0.035}$	99	73	16.5	10	33	113	9	61	M8	2662	7031

Precision Rotary Ball





Unit : mm

Model No.	d	d1	Row	Spline Nut Dimension										Ball Spline Load Rating	
				D1	A1	L1	J1	K1	W1	X1	Y1	Z1	Q	Ca (kgf)	Coa (kgf)
RSLY01616	16	11	2	$31^{0}_{-0.016}$	51	50	10	18	40	4.5	8	6	2	545	849
RSLY02020	20	14	2	$35^{0}_{-0.016}$	58	56	10	18	45	5.5	9.5	5.4	2	724	1109
RSLY02525	25	18	4	$42^{0}_{-0.016}$	65	71	13	26.5	52	5.5	9.5	8	3	1003	1593
RSLY03232	32	23	4	$49^{0}_{-0.016}$	77	80	13	30	62	6.6	11	6.5	3	1324	2251
RSLY04040	40	29	4	$64^{0}_{-0.019}$	100	100	18	36	82	9	14	12	4	2972	4033

Precision Rotary Ball

2.6 Roary Series Weight List

Mass series

Model No.	Weight			
	Ball Nut (kg)	Spline Nut (Kg)	Screw Shaft (kg/m)	Spline Shaft (kg/m)
ST-RFBY				
ST-RFBY01616-1.8	0.502	-	1.56	-
ST-RFBY01616-3.6	0.462	-	1.55	-
ST-RFBY02020-1.8	0.822	-	2.45	-
ST-RFBY02020-3.6	0.538	-	2.42	-
ST-RFBY02525-1.8	1.264	-	3.82	-
ST-RFBY02525-3.6	1.274	-	3.79	-
ST-RFBY03232-1.8	1.543	-	6.27	-
ST-RFBY04040-1.8	4.648	-	9.78	-
ST-RFBY05050-1.8	6.096	-	15.28	-
ST-RLBF				
ST-RLBF016	-	0.52	-	1.56
ST-RLBF020	-	0.75	-	2.44
ST-RLBF025	-	0.964	-	3.80
ST-RLBF032	-	2.002	-	6.255
ST-RLBF040	-	3.616	-	9.69
ST-RLBF050	-	6.43	-	15.19
ST-RBBY				
ST-RBBY01616-1.8	0.502	0.52	1.54	-
ST-RBBY02020-1.8	0.822	0.75	2.42	-
ST-RBBY02525-1.8	1.264	0.964	3.77	-
ST-RBBY03232-1.8	1.543	2.002	6.21	-
ST-RBBY04040-1.8	4.648	3.616	9.61	-
ST-RBBY05050-1.8	6.096	6.43	15.06	-
ST-RBLY				
ST-RBLY01616-1.8	0.502	0.226	1.54	-
ST-RBLY02020-1.8	0.822	0.303	2.42	-
ST-RBLY02525-1.8	1.264	0.458	3.77	-
ST-RBLY03232-1.8	1.543	0.713	6.21	-
ST-RBLY04040-1.8	4.648	1.430	9.61	-
ST-RBLY05050-1.8	6.096	2.756	15.06	-

Compact series

Model No.	Weight			
	Ball Nut (kg)	Spline Nut (Kg)	Screw Shaft (kg/m)	Spline Shaft (kg/m)
ST-RFSY				
ST- RFSY01616-1.8	0.324	-	1.56	-
ST- RFSY01616-3.6	0.372	-	1.55	-
ST- RFSY02020-1.8	0.536	-	2.45	-
ST- RFSY02020-3.6	0.534	-	2.42	-
ST- RFSY02525-1.8	0.9	-	3.82	-
ST- RFSY02525-3.6	0.906	-	3.79	-
ST- RFSY03232-1.8	1.085	-	6.27	-
ST- RFSY04040-1.8	2.214	-	9.78	-
ST-RLSF				
ST- RLSF016	-	0.37	-	1.56
ST- RLSF020	-	0.552	-	2.44
ST- RLSF025	-	0.650	-	3.80
ST- RLSF032	-	0.629	-	6.255
ST- RLSF040	-	1.999	-	9.69
ST-RSSY				
ST-RSSY01616-1.8	0.324	0.37	1.54	-
ST-RSSY02020-1.8	0.536	0.552	2.42	-
ST-RSSY02525-1.8	0.9	0.650	3.77	-
ST-RSSY03232-1.8	1.085	0.629	6.21	-
ST-RSSY04040-1.8	2.214	1.999	9.61	-
ST-RSLY				
ST- RSLY01616-1.8	0.324	0.37	1.54	-
ST-RSLY02020-1.8	0.536	0.552	2.42	-
ST-RSLY02525-1.8	0.9	0.650	3.77	-
ST-RSLY03232-1.8	1.085	0.629	6.21	-
ST-RSLY04040-1.8	2.214	1.999	9.61	-

Manufactures ballscrews according to customers· Ьlueprints or specifications.
Please read the following information for an understanding of ballscrew design.

1. Nominal diameter.
2. Thread lead.
3. Thread length, total length.
4. End journal configuration.
5. Nut configuration
6. Accuracy grade (lead deviation, geometrical tolerance).
7. Working speed.
8. Maximum static load, working load, preload drag torque.
9. Nut safety requirements.
10. Lubrication hole position.

BALLSCREW NOMENCLATURE

1R40 - 10B2 - PFDWE2 - 800 - 1000 - 0.0035 - M

Start type
1.Single start
2.Double start
3.Triple start
4.Four start
5:Five Start

Right hand screw

Nominal diameter

Lead

Number of turns

Preload type
P : Compression type
O : Offset type

Nut Start type
D : High lead double start
T : High lead triple start
Q : High lead quatemary start
F : High lead five start

Nut shape
S : Square nut
R : Round
F : Nut with flange

Note :
D : Biaxial Movement
M : Stainless
H : Hollow Shaft
L : Heavy Load

Lead deviation in random 300mm travel path thread length

Total length

Thread length

Optional Functions :
E2 : Self-lubrication
R1 : Rotating Nut
C1,C2 : Cool Type
Q1 : Spacer

Circulation type
V : Tubes above nut body
(Re-circulation Tube above the nut body)
W : Tubes within nut body
(Re-circulation Tube within the nut body)
B : Bonded tube
I : Internal cap
H : End cap
C : Super S series
T : Super T series
P : RD series
(Re-circulation Tube above the nut body)
S : RD series
(Re-circulation Tube within the nut body)

Nut type
S : Single nut
D : Double nut

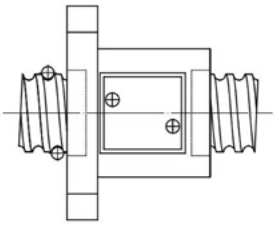
Number of turns

A : 1.5, B: 2.5, C: 3.5	T3 : 3	S1 : 1.8x1	U1 : 2.8x1	K2 : 2	X : 2.8, Y : 3.8, Z : 4.8
A2 : 1.5x2	T4 : 4	S2 : 1.8x2	U2 : 2.8x2	K3 : 3	X2 : 2.8x2
B2 : 2.5x2	T5 : 5	S4 : 1.8x4	V2 : 0.8x2	K4 : 4	Y2 : 3.8x2
C1 : 3.5x1	T6 : 6				Z2 : 4.8x2

Note : 1. Different diameters and leads are available upon request.
2. Right hand thread is standard, left hand thread is available upon request.
3. Longer lengths are available upon request.
4. Stainless steel is available upon request, please contact SHUNTAI engineer.

Super Z

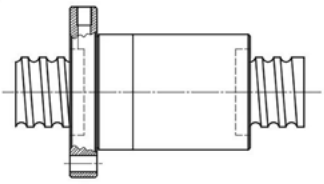
ST-FSZ



(F)Flange end, (S)single nut, (Z)Super Z

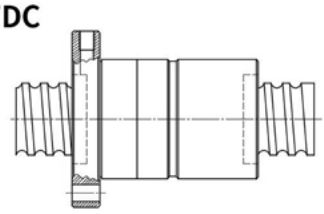
Super S

ST-FSC



(F)Flange end, (S)single nut, (C)Super S

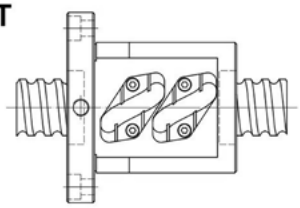
ST-FDC



(F)Flange end, (D)double nut, (C)Super S

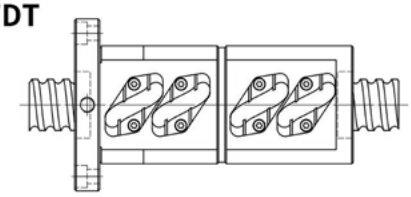
Super T

ST-FST



(F)Flange end, (S)single nut, (T)Super T

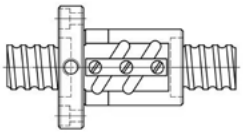
ST-FDT



(F)Flange end, (D)double nut, (T)Super T

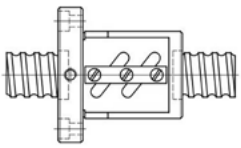
General Type

ST-FSV



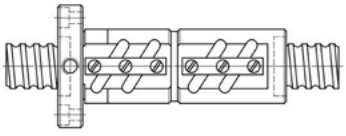
(F)Flange end, (S)single nut,
(V)tube above the nut diameter

ST-FSW



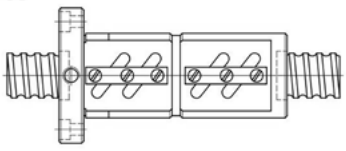
(F)Flange end, (S)single nut,
(W)tube within the nut diameter

ST-FDV



(F)Flange end, (D)double nut,
(V)tube above the nut diameter

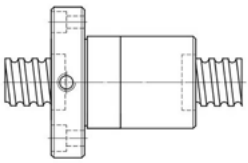
ST-FDW



(F)Flange end, (D)double nut,
(W)tube within the nut diameter

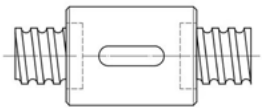
General Type

ST-FSI



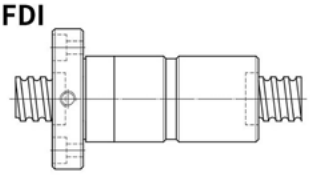
(F)flange end, (S)single nut,
(I)internal recirculation cap

ST-RSI



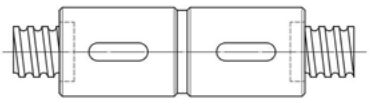
(R)round, (S)single nut,
(I)internal recirculation cap

ST-FDI



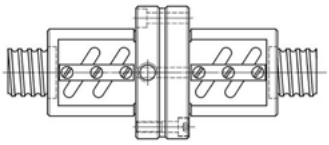
(F)flange end, (D)double nut,
(I)internal recirculation cap

ST-RDI



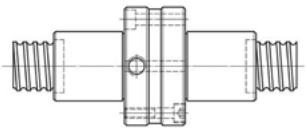
(R)round, (D)double nut,
(I)internal recirculation cap

ST-PFDW-Type1



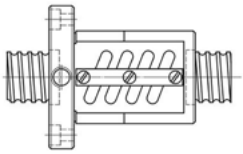
(PF)flange to flange, (D)double nut,
(W)tube within the nut diameter

PFDI



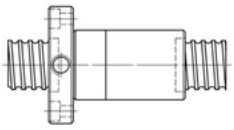
(PF)flange to flange, (D)double nut,
(I)internal recirculation cap

OFSW



(O)offset pitch preload, (F)flange end,
(S)single nut, (W)tube within the nut diameter

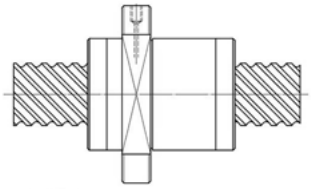
OFSI



(O)offset pitch preload, (F)flange end,
(S)single nut, (I)internal recirculation cap

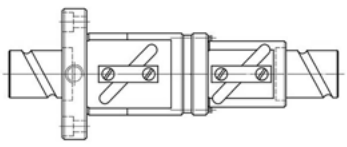
High Lead Type

FSH



Large lead, (F)flange mounted,
(S)single nut, (H)end cap

ST-PFDW-Type2

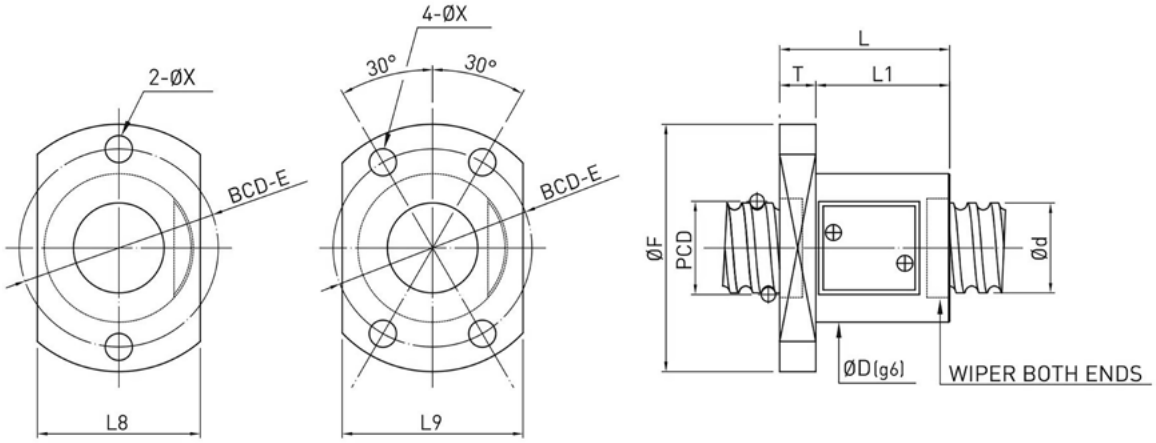


Large lead, (PF)flange end, compression preload,
(D)double nut, (W)tube within nut diameter

Precision Rotary Ball

4.2 Dimensions for Precision Ground Ballscrews

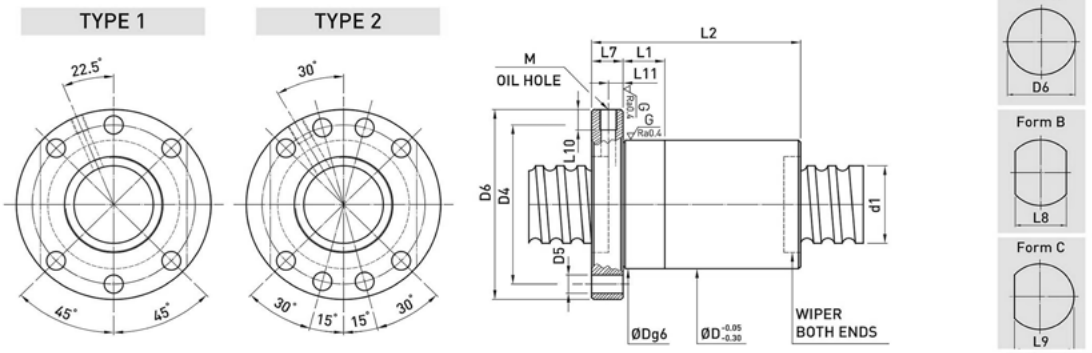
ST — FSZ type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange					Bolt
	Nominal Dia.	Lead								D	L	L1	F	T	BCD-E	L8	L9	X
6-2D1	6	2	6.2	4.638	1.5	2.6x1	9	220	340	15	20	16	29	4	23	17	18	3.4
8-2D1	8	2	8.2	6.638	1.5	2.6x1	11.9	250	460	16	20	16	31	4	24	18	18	3.4
9-3D1	9	3	9.2	7.136	2	4.6x1	23.9	620	1190	20	33	27	38	6	29	22	29	4.5
10-2D1	10	2	10.2	8.638	1.5	2.6x1	14	280	580	18	24.5	19.5	34	5	26	19	21	4.5
10-2.5D1	10	2.5	10.2	8.136	2	2.6x1	15.5	410	770	20	23	18	37	5	29	21	22	4.5
10-2.5P1	10	2.5	10.2	8.136	2	3.6x1	21.3	550	1070	20	25	20	37	5	29	21	22	4.5
10-3.6B1	10	3.6	10.25	7.792	2.381	4.6x1	27.2	820	1550	25	36	30	46	6	36	28	28	5.5
10-4D1	10	4	10.25	7.792	2.381	2.6x1	15.2	500	870	21	30	25	38	5	29	21	22	4.5
12-4D1	12	4	12.25	9.792	2.381	2.6x1	18.6	570	1100	22.5	30	25	40	5	32	22	24	4.5
12-4P1	12	4	12.25	9.792	2.381	3.6x1	25.4	750	1520	22.5	34	29	40	5	32	22	24	4.5
12-5D1	12	5	12.25	9.792	2.381	2.6x1	18.7	560	1090	22.5	33	27	40	6	32	27	27	4.5
14-4D1	14	4	14.25	11.792	2.381	2.6x1	20.3	600	1250	24.5	29	23	46	6	35	26	27	5.5
14-4P1	14	4	14.25	11.792	2.381	3.6x1	27.8	800	1730	24.5	33	27	46	6	35	26	27	5.5
16-2D1	16	2	16.2	14.638	1.5	2.6x1	18.6	340	940	23.5	24	18	45	6	34	26	27	5.5
16-5D1	16	5	16.6	13.324	3.175	2.6x1	24.1	950	1960	29	34	28	49	6	38	30	30	5.5
16-5P1	16	5	16.6	13.324	3.175	3.6x1	33	1260	2710	29	39	33	49	6	38	30	30	5.5
20-4D1	20	4	20.25	17.792	2.381	2.6x1	26.5	720	1850	30.5	34	24	58	10	47	44	44	5.5
20-4P1	20	4	20.25	17.792	2.381	3.6x1	36.1	950	2560	30.5	38	28	58	10	47	44	44	5.5
25-4D1	25	4	25.25	22.792	2.381	2.6x1	30.8	800	2370	35.5	34	24	58	10	47	44	44	6.6
25-4P1	25	4	25.25	22.792	2.381	3.6x1	42.1	1060	3280	35.5	38	28	58	10	47	44	44	6.6
32-4D1	32	4	32.25	29.792	2.381	2.6x1	35.2	880	3040	42.5	34	24	80	12	65	62	62	9
32-4P1	32	4	32.25	29.792	2.381	3.6x1	48.2	1170	4210	42.5	38	28	80	12	65	62	62	9

Precision Rotary Ball

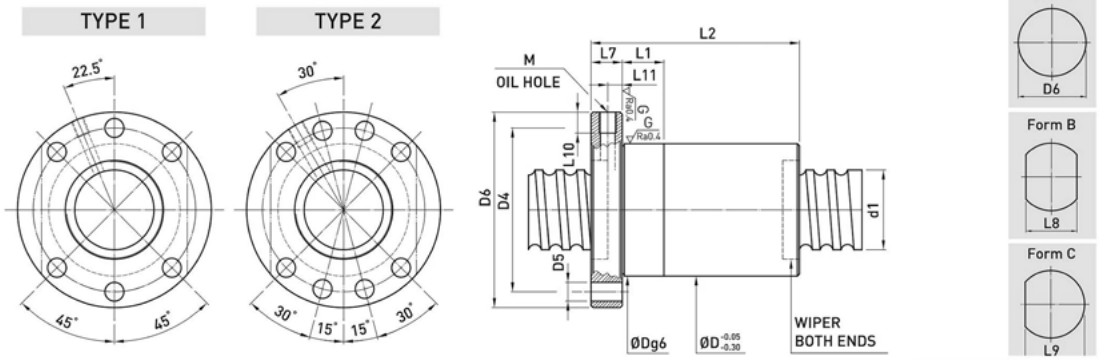
ST — FSC type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange							Oil Hole			Double Starts	Incomplete Thread
	Nominal Dia.	Lead								D	L1	L2	TYPE	Form A (D6)	Form B (L8)	Form C (L9)	L7	D4	D5	M	L10	L11		
14-10T3	14	10	14.6	10.724	3.175	3	24	920	1790	28	10	46	1	48	40	44	10	38	5.5	M5×0.8P	6	5		
15-10T3	15	10	16	12.869	3	3	26	930	1970	28	10	45	1	48	40	44	10	38	5.5	M5×0.8P	6	5		
15-16T2	15	16	16	12.869	3	2	16	610	1230	28	10	45	1	48	40	44	10	38	5.5	M5×0.8P	6	5		
15-10T3	15	10	15.6	12.324	3.175	3	25	960	1930	34	10	44	1	57	43	50	10	45	5.5	M5×0.8P	6	5		
15-20T2	15	20	15.6	12.324	3.175	2	15	630	1256	34	10	50	1	57	43	50	10	45	5.5	M5×0.8P	6	5		
16-16T2	16	16	16.4	13.124	3.175	2	17	680	1385	34	10	47	1	57	43	50	10	45	5.5	M5×0.8P	6	5		●
20-10T4	20	10	21	17.868	3	4	43	1390	3560	34	10	55	1	57	43	50	10	45	5.5	M5×0.8P	6	5		
20-5T4	20	5	20.6	17.324	3.175	4	42	1490	3640	36	10	40	1	58	44	51	10	47	6.6	M6×1P	8	5		
20-10T3	20	10	20.6	17.324	3.175	3	32	1130	2660	36	10	47	1	58	44	51	10	47	6.6	M6×1P	8	5		
20-20T2	20	20	20.6	17.324	3.175	2	21	760	1730	36	10	57	1	58	44	51	10	47	6.6	M6×1P	8	5	●	
20-6T5	20	6	20.8	16.744	3.969	5	58	2420	5660	42	10	49	1	64	50	57	10	53	6.6	M6×1P	8	5		●
20-8T5	20	8	21	16.132	4.763	5	58	2960	6505	45	10	64	1	65	51	58	10	54	6.6	M6×1P	8	5		●
25-5T4	25	5	25.6	22.324	3.175	4	49	1650	4612	40	10	43	1	62	48	55	10	51	6.6	M6×1P	8	5		
25-10T3	25	10	25.6	22.324	3.175	3	38	1260	3370	40	10	50	1	62	48	55	10	51	6.6	M6×1P	8	5		
25-15T5	25	15	25.6	22.324	3.175	5	63	1980	5730	40	10	90	1	62	48	55	10	51	6.6	M6×1P	8	5		
25-20T3	25	20	25.6	22.324	3.175	3	39	1260	3436	40	10	80	1	62	48	55	10	51	6.6	M6×1P	8	5	●	
25-25T2	25	25	25.6	22.324	3.175	2	25	840	2170	40	10	69	1	62	48	55	10	51	6.6	M6×1P	8	5	●	
25-6T5	25	6	25.8	21.744	3.969	5	68	2720	7192	45	10	50	1	65	51	58	10	54	6.6	M6×1P	8	5		
25-8T5	25	8	25.8	21.744	3.969	5	70	2710	7170	48	10	62	1	68	54	61	10	57	6.6	M6×1P	8	5		
25-10T4	25	10	25.8	21.744	3.969	4	56	2210	5660	45	10	60	1	65	51	58	10	54	6.6	M6×1P	8	5		
25-12T4	25	12	25.8	21.744	3.969	4	56	2200	5640	45	10	67	1	65	51	58	10	54	6.6	M6×1P	8	5		●
25-16T3	25	16	25.8	21.744	3.969	3	42	1670	4127	45	10	71	1	65	51	58	10	54	6.6	M6×1P	8	5		●
25-20T3	25	20	25.8	21.744	3.969	3	43	1710	4290	45	10	80	1	65	51	58	10	54	6.6	M6×1P	8	5		
25-8T5	25	8	26	21.132	4.763	5	72	3480	8683	50	10	64	1	70	56	64	10	60	6.6	M6×1P	8	5		●
28-6T5	28	6	28.8	24.744	3.969	5	74	2840	7966	50	10	49	1	80	62	71	12	65	6.6	M6×1P	8	6		●
28-8T5	28	8	29	24.132	4.763	5	79	3690	9780	50	10	62	1	80	62	71	12	65	6.6	M6×1P	8	6		●
28-10T5	28	10	29	24.132	4.763	5	80	3680	9760	52	10	72	1	80	62	71	12	65	6.6	M6×1P	8	6		●
28-16T4	28	16	29	24.132	4.763	4	64	2970	7661	50	10	92	1	80	62	71	12	65	6.6	M6×1P	8	6	●	●
32-5T4	32	5	32.6	29.324	3.175	4	57	1840	5960	48	10	38	1	70	54	62	12	59	6.6	M6×1P	8	6		●
32-5.08T4	32	5.08	32.6	29.324	3.175	4	57	1840	5940	48	10	39	1	70	54	62	12	59	6.6	M6×1P	8	6		●
32-6T5	32	6	32.8	28.744	3.969	5	83	3090	9480	56	10	48	1	86	65	75.5	12	71	6.6	M6×1P	8	6		●
32-8T5	32	8	32.8	28.744	3.969	5	85	3080	9430	53	10	59	1	83	62	72.5	12	68	6.6	M6×1P	8	6		
32-8T5	32	8	32.8	28.744	3.969	5	84	3080	9460	50	10	59	1	80	62	71	12	65	9	M6×1P	8	6		
32-10T5	32	10	32.8	28.744	3.969	5	85	3080	9450	50	10	73	1	80	62	71	12	65	9	M6×1P	8	6		
32-15T4	32	15	32.8	28.744	3.969	4	69	2500	7440	50	10	90	1	80	62	71	12	65	9	M6×1P	8	6	●	
32-20T3	32	20	32.8	28.744	3.969	3	52	1900	5430	50	20	87	1	80	62	71	12	65	9	M6×1P	8	6		
32-32T2	32	32	32.8	28.744	3.969	2	34	1280	3530	50	20	87	1	80	62	71	12	65	9	M6×1P	8	6	●	
32-40T2	32	40	32.8	28.744	3.969	2	32	1240	3440	50	20	94	1	80	62	71	12	65	9	M6×1P	8	6	●	
32-8T5	32	8	33	28.132	4.763	5	84	3860	10914	55	10	64	1	86	65	75.5	14	71	9	M6×1P	8	7		●
32-10T5	32	10	33	28.132	4.763	5	86	3850	10890	56	10	79	1	86	65	75.5	14	71	9	M6×1P	8	7		
32-12T5	32	12	33	28.132	4.763	5	87	3840	10870	56	20	88	1	86	65	75.5	14	71	9	M6×1P	8	7		
32-20T4	32	20	33	28.132	4.763	4	72	3190	8914	54	20	106	1	86	65	75.5	14	71	9	M6×1P	8	7	●	●
32-25T3	32	25	33	28.132	4.763	3	53	2420	6500	54	20	97	1	86	65	75.5	14	71	9	M6×1P	8	7	●	●
32-32T2	32	32	33	28.132	4.763	2	34	1620	4100	54	20	88	1	86	65	75.5	14	71	9	M6×1P	8	7	●	●
32-10T5	32	10	33.4	26.91	6.35	5	90	5640	14480	62	10	77	1	92	74	83	14	77	9	M6×1P	8	7		●
32-12T5	32	12	33.4	26.91	6.35	5	90	5620	14450	62	20	87	1	92	74	83	14	77	9	M6×1P	8	7		●
32-16T4	32	16	33.4	26.91	6.35	4	73	4570	11390	62	20	92	1	92	74	83	14	77	9	M6×1P	8	7		●
32-20T4	32	20	33.4	26.91	6.35	4	70	4240	10854	57	20	107	1	87	66	78	14	72	9	M6×1P	8	7		
36-6T5	36	6	36.8	32.744	3.969	5	88	3240	10632	56	10	51	2	86	65	77	14	71	9	M6×1P	8	7		●
36-10T5	36	10	37.4	30.91	6.35	5	98	6010	16440	66	20	80	2	96	73	84.5	14	81	9	M8×1P	10	7		●
36-12T5	36	12	37.4	30.91	6.35	5	99	5990	16420	66	20	87	2	96	73	84.5	14	81	9	M8×1P	10	7		
36-16T5	36	16	37.4	30.91	6.35	5	100	5960	16350	66	20	109	2	96	73	84.5	14	81	9	M8×1P	10	7		●
36-20T4	36	20	37.4	30.91	6.35	4	80	4840	12880	65	20	108	2	95	72	83.5	14	80	9	M8×1P	10	7	●	●
36-20T4	36	20	37.4	30.91	6.35	4	79	4840	12880	61	20	108	2	91	68	79.5	14	76	9	M8×1P	10	7		
36-36T2	36	36	37.4	30.91	6.35	2	39	2540	6240	61	20	95	2	91	68	79.5	14	76	9	M8×1P	10	7	●	
38-8T5	38	8	39	34.132	4.763	5	96	4190	13110	61	20	64	2	91	68	79.5	14	76	9	M8×1P	10	7		●
38-10T4	38	10	39.4	32.91	6.35	4	81	5050	13790	63	20	70	2	93	70	81.5	14	78	9	M8×1P	10	7		
38-15T4	38	15	39.4	32.91	6.35	4	83	5020	13740	63	20	88	2	93	70	81.5	14	78	9	M8×1P	10	7		
38-16T5	38	16	39.4	32.91	6.35	5	104	6140	17340	63	20	108	2	93	70	81.5	14	78	9	M8×1P	10	7		
38-20T4	38	20	39.4	32.91	6.35	4	83	4990	13660	63	25	108	2	93	70	81.5	14	78	9	M8×1P	10	7	●	
38-25T4	38	25	39.4	32.91	6.35	4	83	4940	13560	63	25	127	2	93	70	81.5	14	78	9	M8×1P	10	7	●	●
38-40T2	38	40	39.4	32.91	6.35	2	40	2590	6560	63	25	103	2	93	70	81.5	14	78	9	M8×1P	10	7	●	

Precision Rotary Ball

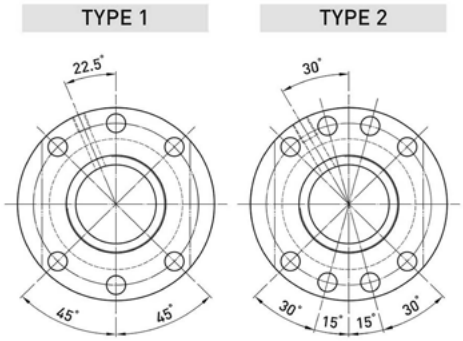
ST — FSC type standart product

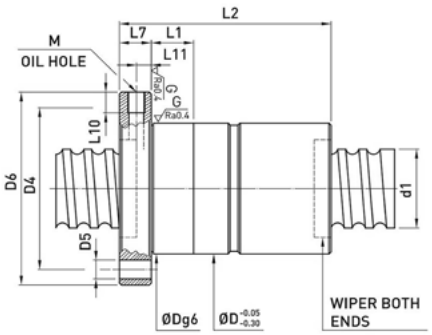


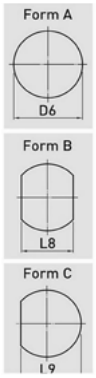
Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange							Oil Hole			Double Starts	Incomplete Thread
	Nominal Dia.	Lead								D	L1	L2	TYPE	Form A(D6)	Form B(L8)	Form C(L9)	L7	D4	D5	M	L10	L11		
40-5T5	40	5	40.6	37.324	3.175	5	85	2470	9490	63	20	45	2	93	70	81.5	14	78	9	M8×1P	10	7		
40-6T5	40	6	40.8	36.744	3.969	5	95	3370	11780	63	20	52	2	93	70	81.5	14	78	9	M8×1P	10	7		
40-8T5	40	8	41	36.132	4.763	5	101	4360	14200	63	20	68	2	93	70	81.5	14	78	9	M8×1P	10	7		●
40-10T5	40	10	41	36.132	4.763	5	102	4350	14180	61	20	80	2	91	68	79.5	14	76	9	M8×1P	10	7		
40-20T4	40	20	41	36.132	4.763	4	84	3520	11130	61	20	110	2	91	68	79.5	14	76	9	M8×1P	10	7		
40-16T5	40	16	41.2	35.522	5.556	5	107	5170	15510	68	20	108	2	98	75	86.5	14	83	9	M8×1P	10	7		
40-10T5	40	10	41.4	34.91	6.35	5	106	6340	18400	70	20	83	2	100	75	87.5	14	85	9	M8×1P	10	7		●
40-12T5	40	12	41.4	34.91	6.35	5	108	6330	18380	70	20	86	2	100	75	87.5	14	85	9	M8×1P	10	7		●
40-16T5	40	16	41.4	34.91	6.35	5	109	6300	18320	70	20	108	2	100	75	87.5	14	85	9	M8×1P	10	7		●
40-20T4	40	20	41.4	34.91	6.35	4	87	5130	14440	70	20	110	2	100	75	87.5	14	85	9	M8×1P	10	7	●	
40-30T3	40	30	41.4	34.91	6.35	3	67	4000	11010	70	20	117	2	100	75	87.5	14	85	9	M8×1P	10	7	●	●
40-25T4	40	25	41.4	34.91	6.35	4	86	5080	14350	65	25	127	2	95	72	83.5	14	80	9	M8×1P	10	7	●	●
40-40T2	40	40	41.4	34.91	6.35	2	42	2660	6940	65	25	101	2	95	72	83.5	14	80	9	M8×1P	10	7	●	
40-12T5	40	12	41.6	34.299	7.144	5	110	7430	20790	75	20	90	2	110	85	97.5	14	93	9	M8×1P	10	7		●
40-16T5	40	16	41.6	34.299	7.144	5	112	7400	20720	75	20	109	2	110	85	97.5	14	93	9	M8×1P	10	7		●
45-8T5	45	8	46	41.132	4.763	5	109	4550	15860	70	20	66	2	105	80	92.5	16	90	11	M8×1P	10	8		●
45-10T5	45	10	46.4	39.91	6.35	5	118	6810	21320	75	20	78	2	110	85	97.5	16	93	11	M8×1P	10	8		●
45-12T5	45	12	46.4	39.91	6.35	5	119	6800	21290	75	20	89	2	110	85	97.5	16	93	11	M8×1P	10	8		●
45-16T5	45	16	46.4	39.91	6.35	5	121	6780	21240	75	20	108	2	110	85	97.5	16	93	11	M8×1P	10	8		
45-20T4	45	20	46.4	39.91	6.35	4	98	5520	16760	75	25	108	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
45-25T4	45	25	46.4	39.91	6.35	4	98	5480	16670	75	25	129	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
45-40T3	45	40	46.4	39.91	6.35	3	71	4100	12020	75	25	145	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
45-12T5	45	12	46.6	39.299	7.144	5	119	7830	23290	80	20	88	2	117	92	104.5	16	100	11	M8×1P	10	8		●
45-16T5	45	16	46.6	39.299	7.144	5	120	7810	23230	80	20	119	2	117	92	104.5	16	100	11	M8×1P	10	8		
45-20T4	45	20	46.6	39.299	7.144	4	97	6360	18330	80	25	113	2	117	92	104.5	16	100	11	M8×1P	10	8		
50-5T5	50	5	50.6	47.324	3.175	5	95	2700	11940	70	20	45	2	100	75	87.5	16	85	11	M8×1P	10	8		
50-8T5	50	8	51	46.132	4.763	5	116	4730	17530	75	20	74	2	110	85	97.5	16	93	11	M8×1P	10	8		●
50-10T5	50	10	51.4	44.91	6.35	5	125	7050	23300	82	25	80	2	118	92	105	16	100	11	M8×1P	10	8		
50-12T5	50	12	51.4	44.91	6.35	5	127	7040	23280	82	25	90	2	118	92	105	16	100	11	M8×1P	10	8		●
50-15T5	50	15	51.4	44.91	6.35	5	129	7030	23250	82	25	104	2	118	92	105	16	100	11	M8×1P	10	8		
50-16T5	50	16	51.4	44.91	6.35	5	129	7020	23230	82	25	109	2	118	92	105	16	100	11	M8×1P	10	8		●
50-20T4	50	20	51.4	44.91	6.35	4	104	5720	18340	82	25	106	2	118	92	105	16	100	11	M8×1P	10	8	●	
50-25T4	50	25	51.4	44.91	6.35	4	104	5690	18260	75	25	129	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
50-30T4	50	30	51.4	44.91	6.35	4	104	5650	18170	75	25	147	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
50-35T3	50	35	51.4	44.91	6.35	3	80	4430	13840	75	25	133	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
50-40T3	50	40	51.4	44.91	6.35	3	79	4390	13750	75	25	145	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
50-30T2	50	30	51.6	44.299	7.144	2	53	3560	9960	82	25	92	2	118	92	105	16	100	11	M8×1P	10	8	●	●
50-12T5	50	12	51.8	43.688	7.938	5	130	9480	28776	85	25	97	2	121	95	108	16	103	11	M8×1P	10	8		●
50-16T5	50	16	51.8	43.688	7.938	5	132	9450	28710	85	25	112	2	121	95	108	16	103	11	M8×1P	10	8		●
50-20T5	50	20	51.8	43.688	7.938	5	134	9420	28630	85	25	138	2	121	95	108	16	103	11	M8×1P	10	8		●
50-50T2	50	50	51.8	43.688	7.938	2	52	3980	10860	85	25	124	2	121	95	108	16	103	11	M8×1P	10	8		●
50-20T4	50	20	52.2	42.466	9.525	4	113	9870	27420	86	25	120	2	121	95	108	16	103	11	M8×1P	10	8		
55-16T5	55	16	56.4	49.91	6.35	5	139	7420	26157	82	25	104	2	118	92	105	20	100	13.5	M8×1P	10	10		●
63-10T5	63	10	64.4	57.91	6.35	5	144	7720	29190	95	25	84	2	135	100	117.5	20	115	13.5	M8×1P	10	10		●
63-12T5	63	12	64.4	57.91	6.35	5	147	7720	29180	95	25	94	2	135	100	117.5	20	115	13.5	M8×1P	10	10		●
63-20T5	63	20	64.4	57.91	6.35	5	157	7850	30020	95	25	132	2	135	100	117.5	20	115	13.5	M8×1P	10	10		●
63-40T2	63	40	64.4	57.91	6.35	2	62	3310	11100	95	25	110	2	135	100	117.5	20	115	13.5	M8×1P	10	10	●	
63-12T5	63	12	64.8	56.688	7.938	5	152	10520	36440	98	25	94	2	138	103	120.5	20	118	13.5	M8×1P	10	10		●
63-16T4	63	16	65.2	55.466	9.525	4	132	11010	34520	107	25	100	2	147	112	129.5	20	127	13.5	M8×1P	10	10		
63-20T5	63	20	65.2	55.466	9.525	5	168	13430	43530	107	25	140	2	147	112	129.5	20	127	13.5	M8×1P	10	10		
63-25T5	63	25	65.2	55.466	9.525	5	166	13390	43420	110	25	165	2	150	115	132.5	20	130	13.5	M8×1P	10	10	●	●
70-16T4	70	16	72.2	62.466	9.525	4	141	11470	38040	115	25	105	2	155	120	137.5	25	135	13.5	M8×1P	10	12.5		
70-20T4	70	20	72.2	62.466	9.525	4	143	11450	37990	115	25	122	2	155	120	137.5	25	135	13.5	M8×1P	10	12.5		
80-10T5	80	10	81.4	74.91	6.35	5	166	8620	37980	110	25	80	2	150	115	132.5	25	130	13.5	M8×1P	10	12.5		
80-12T5	80	12	81.8	73.688	7.938	5	177	11740	47130	115	25	102	2	155	120	137.5	25	135	13.5	M8×1P	10	12.5		
80-16T4	80	16	82.2	72.466	9.525	4	155	12410	44960	125	25	105	2	170	135	152.5	25	150	13.5	M8×1P	10	12.5		●
80-20T4	80	20	82.2	72.466	9.525	4	160	12400	44910	120	25	122	2	165	130	147.5	25	145	13.5	M8×1P	10	12.5		
80-25T4	80	25	82.2	72.466	9.525	4	159	12370	44840	120	25	145	2	65	130	147.5	25	145	13.5	M8×1P	10	12.5		●
80-30T4	80	30	82.2	72.466	9.525	4	161	12340	44750	120	25	165	2	65	130	147.5	25	145	13.5	M8×1P	10	12.5		●

Precision Ground Ball Screw Series

ST — FDC type standart product



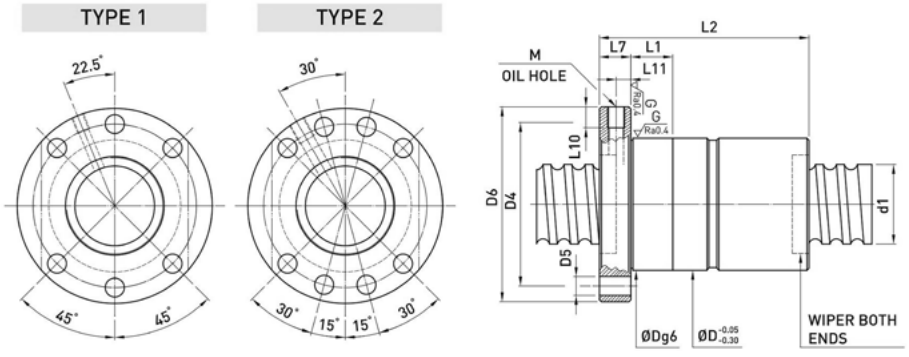




Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C(kgf)	Static Load Cokgf)	Nut			Flange							Oil Hole			Double Starts	Incom-plete Thread
	Nominal Dia.	Lead								D	L1	L2	TYPE	Form A(D6)	Form B(L8)	Form C(L9)	L7	D4	D5	M	L10	L11		
14-10T3	14	10	14.6	10.724	3.175	3	31	920	1790	28	10	96	1	48	40	44	10	38	5.5	M5×0.8P	6	5		
15-10T3	15	10	16	12.869	3	3	34	930	1970	28	10	94	1	48	40	44	10	38	5.5	M5×0.8P	6	5		
15-16T2	15	16	16	12.869	3	2	21	610	1230	28	10	94	1	48	40	44	10	38	5.5	M5×0.8P	6	5		
15-10T3	15	10	15.6	12.324	3.175	3	33	960	1930	34	10	92	1	57	43	50	10	45	5.5	M5×0.8P	6	5		
15-20T2	15	20	15.6	12.324	3.175	2	20	630	1256	34	10	104	1	57	43	50	10	45	5.5	M5×0.8P	6	5		
16-16T2	16	16	16.4	13.124	3.175	2	23	680	1385	34	10	98	1	57	43	50	10	45	5.5	M5×0.8P	6	5		●
20-10T4	20	10	21	17.868	3	4	57	1390	3560	34	10	114	1	57	43	50	10	45	5.5	M5×0.8P	6	5		
20-5T4	20	5	20.6	17.324	3.175	4	55	1490	3640	36	10	84	1	58	44	51	10	47	6.6	M6×1P	8	5		
20-10T3	20	10	20.6	17.324	3.175	3	42	1130	2660	36	10	98	1	58	44	51	10	47	6.6	M6×1P	8	5		
20-20T2	20	20	20.6	17.324	3.175	2	27	760	1730	36	10	118	1	58	44	51	10	47	6.6	M6×1P	8	5	●	
20-6T5	20	6	20.8	16.744	3.969	5	77	2420	5660	42	10	102	1	64	50	57	10	53	6.6	M6×1P	8	5		●
20-8T5	20	8	21	16.132	4.763	5	77	2960	6505	45	10	132	1	65	51	58	10	54	6.6	M6×1P	8	5		●
25-5T4	25	5	25.6	22.324	3.175	4	65	1650	4612	40	10	90	1	62	48	55	10	51	6.6	M6×1P	8	5		
25-10T3	25	10	25.6	22.324	3.175	3	50	1260	3370	40	10	104	1	62	48	55	10	51	6.6	M6×1P	8	5		
25-15T5	25	15	25.6	22.324	3.175	5	83	1980	5730	40	10	184	1	62	48	55	10	51	6.6	M6×1P	8	5		
25-20T3	25	20	25.6	22.324	3.175	3	51	1260	3436	40	10	164	1	62	48	55	10	51	6.6	M6×1P	8	5	●	
25-25T2	25	25	25.6	22.324	3.175	2	32	840	2170	40	10	142	1	62	48	55	10	51	6.6	M6×1P	8	5	●	
25-6T5	25	6	25.8	21.744	3.969	5	91	2720	7192	45	10	104	1	65	51	58	10	54	6.6	M6×1P	8	5		
25-8T5	25	8	25.8	21.744	3.969	5	92	2710	7170	48	10	128	1	68	54	61	10	57	6.6	M6×1P	8	5		
25-10T4	25	10	25.8	21.744	3.969	4	74	2210	5660	45	10	124	1	65	51	58	10	54	6.6	M6×1P	8	5		
25-12T4	25	12	25.8	21.744	3.969	4	74	2200	5640	45	10	138	1	65	51	58	10	54	6.6	M6×1P	8	5		●
25-16T3	25	16	25.8	21.744	3.969	3	55	1670	4127	45	10	146	1	65	51	58	10	54	6.6	M6×1P	8	5		●
25-20T3	25	20	25.8	21.744	3.969	3	55	1710	4290	45	10	164	1	65	51	58	10	54	6.6	M6×1P	8	5		
25-8T5	25	8	26	21.132	4.763	5	96	3480	8683	50	10	132	1	70	56	64	10	60	6.6	M6×1P	8	5		●
28-6T5	28	6	28.8	24.744	3.969	5	93	2840	7966	50	10	102	1	80	62	71	12	65	6.6	M6×1P	8	6		●
28-8T5	28	8	29	24.132	4.763	5	104	3690	9780	50	10	128	1	80	62	71	12	65	6.6	M6×1P	8	6		●
28-10T5	28	10	29	24.132	4.763	5	105	3680	9760	50	10	148	1	80	62	71	12	65	6.6	M6×1P	8	6		●
28-16T4	28	16	29	24.132	4.763	4	84	2970	7661	50	10	188	1	80	62	71	12	65	6.6	M6×1P	8	6	●	●
32-5T4	32	5	32.6	29.324	3.175	4	77	1840	5960	48	10	80	1	70	54	62	12	59	6.6	M6×1P	8	6		●
32-5.08T4	32	5.08	32.6	29.324	3.175	4	77	1840	5940	48	10	82	1	70	54	62	12	59	6.6	M6×1P	8	6		●
32-6T5	32	6	32.8	28.744	3.969	5	111	3090	9480	56	10	100	1	86	65	75.5	12	71	6.6	M6×1P	8	6		●
32-8T5	32	8	32.8	28.744	3.969	5	112	3080	9430	53	10	122	1	83	62	72.5	12	68	6.6	M6×1P	8	6		
32-8T5	32	8	32.8	28.744	3.969	5	112	3080	9460	50	10	122	1	80	62	71	12	65	9	M6×1P	8	6		
32-10T5	32	10	32.8	28.744	3.969	5	113	3080	9450	50	10	150	1	80	62	71	12	65	9	M6×1P	8	6		
32-15T4	32	15	32.8	28.744	3.969	4	91	2500	7440	50	10	184	1	80	62	71	12	65	9	M6×1P	8	6	●	
32-20T3	32	20	32.8	28.744	3.969	3	68	1900	5430	50	20	178	1	80	62	71	12	65	9	M6×1P	8	6		
32-32T2	32	32	32.8	28.744	3.969	2	44	1280	3530	50	20	178	1	80	62	71	12	65	9	M6×1P	8	6	●	
32-40T2	32	40	32.8	28.744	3.969	2	42	1240	3440	50	20	192	1	80	62	71	12	65	9	M6×1P	8	6	●	
32-8T5	32	8	33	28.132	4.763	5	112	3860	10914	55	10	132	1	86	65	75.5	14	71	9	M6×1P	8	7		●
32-10T5	32	10	33	28.132	4.763	5	113	3850	10890	56	10	162	1	86	65	75.5	14	71	9	M6×1P	8	7		
32-12T5	32	12	33	28.132	4.763	5	114	3840	10870	56	20	180	1	86	65	75.5	14	71	9	M6×1P	8	7		
32-20T4	32	20	33	28.132	4.763	4	94	3190	8914	54	20	216	1	86	65	75.5	14	71	9	M6×1P	8	7	●	●
32-25T3	32	25	33	28.132	4.763	3	70	2420	6500	54	20	198	1	86	65	75.5	14	71	9	M6×1P	8	7	●	●
32-32T2	32	32	33	28.132	4.763	2	44	1620	4100	54	20	180	1	86	65	75.5	14	71	9	M6×1P	8	7	●	●
32-10T5	32	10	33.4	26.91	6.35	5	119	5640	14480	62	10	158	1	92	74	83	14	77	9	M6×1P	8	7		●
32-12T5	32	12	33.4	26.91	6.35	5	119	5620	14450	62	20	178	1	92	74	83	14	77	9	M6×1P	8	7		●
32-16T4	32	16	33.4	26.91	6.35	4	96	4570	11390	62	20	188	1	92	74	83	14	77	9	M6×1P	8	7		●
32-20T4	32	20	33.4	26.91	6.35	4	71	4240	10854	57	20	218	1	87	66	78	14	72	9	M6×1P	8	7		
36-6T5	36	6	36.8	32.744	3.969	5	118	3240	10632	56	10	106	2	86	65	77	14	71	9	M6×1P	8	7		●
36-10T5	36	10	37.4	30.91	6.35	5	130	6010	16440	66	20	164	2	96	73	84.5	14	81	9	M8×1P	10	7		●
36-12T5	36	12	37.4	30.91	6.35	5	131	5990	16420	66	20	178	2	96	73	84.5	14	81	9	M8×1P	10	7		
36-16T5	36	16	37.4	30.91	6.35	5	132	5960	16350	66	20	222	2	96	73	84.5	14	81	9	M8×1P	10	7		●
36-20T4	36	20	37.4	30.91	6.35	4	105	4840	12880	65	20	220	2	95	72	83.5	14	80	9	M8×1P	10	7	●	●
36-20T4	36	20	37.4	30.91	6.35	4	105	4840	12880	61	20	220	2	91	68	79.5	14	76	9	M8×1P	10	7		
36-36T2	36	36	37.4	30.91	6.35	2	51	2540	6240	61	20	194	2	91	68	79.5	14	76	9	M8×1P	10	7	●	
38-8T5	38	8	39	34.132	4.763	5	127	4190	13110	61	20	132	2	91	68	79.5	14	76	9	M8×1P	10	7		●
38-10T4	38	10	39.4	32.91	6.35	4	107	5050	13790	63	20	144	2	93	70	81.5	14	78	9	M8×1P	10	7		
38-15T4	38	15	39.4	32.91	6.35	4	109	5020	13740	63	20	180	2	93	70	81.5	14	78	9	M8×1P	10	7		
38-16T5	38	16	39.4	32.91	6.35	5	137	6140	17340	63	20	220	2	93	70	81.5	14	78	9	M8×1P	10	7		
38-20T4	38	20	39.4	32.91	6.35	4	110	4990	13660	63	25	220	2	93	70	81.5	14	78	9	M8×1P	10	7	●	
38-25T4	38	25	39.4	32.91	6.35	4	109	4940	13560	63	25	258	2	93	70	81.5	14	78	9	M8×1P	10	7	●	●
38-40T2	38	40	39.4	32.91	6.35	2	53	2590	6560	63	25	210	2	93	70	81.5	14	78	9	M8×1P	10	7	●	

Precision Ground Ball Screw Series

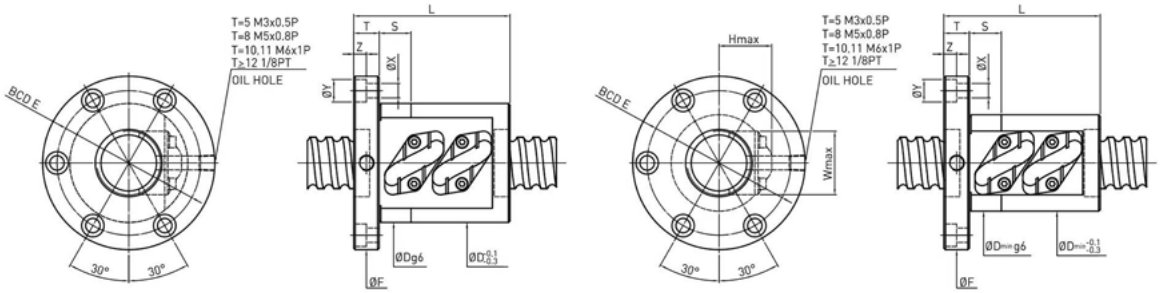
ST — FDC type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange							Oil Hole			Double starts	Incomplete Thread
	Nominal Dia.	Lead								D	L1	L2	TYPE	Form A(D6)	Form B(L8)	Form C(L9)	L7	D4	D5	M	L10	L11		
40-5T5	40	5	40.6	37.324	3.175	5	114	2470	9490	63	20	95	2	93	70	81.5	14	78	9	M8×1P	10	7		
40-6T5	40	6	40.8	36.744	3.969	5	127	3370	11780	63	20	109	2	93	70	81.5	14	78	9	M8×1P	10	7		
40-8T5	40	8	41	36.132	4.763	5	135	4360	14200	63	20	140	2	93	70	81.5	14	78	9	M8×1P	10	7		●
40-10T5	40	10	41	36.132	4.763	5	136	4350	14180	61	20	164	2	91	68	79.5	14	76	9	M8×1P	10	7		
40-20T4	40	20	41	36.132	4.763	4	111	3520	11130	61	20	226	2	91	68	79.5	14	76	9	M8×1P	10	7		
40-16T5	40	16	41.2	35.522	5.556	5	141	5170	15510	68	20	220	2	98	75	86.5	14	83	9	M8×1P	10	7		
40-10T5	40	10	41.4	34.91	6.35	5	141	6340	18400	70	20	170	2	100	75	87.5	14	85	9	M8×1P	10	7		●
40-12T5	40	12	41.4	34.91	6.35	5	142	6330	18380	70	20	178	2	100	75	87.5	14	85	9	M8×1P	10	7		●
40-16T5	40	16	41.4	34.91	6.35	5	143	6300	18320	70	20	221	2	100	75	87.5	14	85	9	M8×1P	10	7		●
40-20T4	40	20	41.4	34.91	6.35	4	115	5130	14440	70	20	225	2	100	75	87.5	14	85	9	M8×1P	10	7	●	
40-30T3	40	30	41.4	34.91	6.35	3	88	4000	11010	70	20	239	2	100	75	87.5	14	85	9	M8×1P	10	7	●	●
40-25T4	40	25	41.4	34.91	6.35	4	114	5080	14350	65	25	259	2	95	72	83.5	14	80	9	M8×1P	10	7	●	●
40-40T2	40	40	41.4	34.91	6.35	2	56	2660	6940	65	25	207	2	95	72	83.5	14	80	9	M8×1P	10	7	●	
40-12T5	40	12	41.6	34.299	7.144	5	146	7430	20790	75	20	185	2	110	85	97.5	14	93	9	M8×1P	10	7		●
40-16T5	40	16	41.6	34.299	7.144	5	147	7400	20720	75	20	223	2	110	85	97.5	14	93	9	M8×1P	10	7		●
45-8T5	45	8	46	41.132	4.763	5	145	4550	15860	70	20	137	2	105	80	92.5	16	90	11	M8×1P	10	8		●
45-10T5	45	10	46.4	39.91	6.35	5	156	6810	21320	75	20	161	2	110	85	97.5	16	93	11	M8×1P	10	8		●
45-12T5	45	12	46.4	39.91	6.35	5	158	6800	21290	75	20	183	2	110	85	97.5	16	93	11	M8×1P	10	8		●
45-16T5	45	16	46.4	39.91	6.35	5	160	6780	21240	75	20	221	2	110	85	97.5	16	93	11	M8×1P	10	8		
45-20T4	45	20	46.4	39.91	6.35	4	129	5520	16760	75	25	221	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
45-25T4	45	25	46.4	39.91	6.35	4	129	5480	16670	75	25	263	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
45-40T3	45	40	46.4	39.91	6.35	3	93	4100	12020	75	25	295	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
45-12T5	45	12	46.6	39.299	7.144	5	157	7830	23290	75	20	181	2	110	85	97.5	16	93	11	M8×1P	10	8		●
45-16T5	45	16	46.6	39.299	7.144	5	159	7810	23230	75	20	243	2	110	85	97.5	16	93	11	M8×1P	10	8		
45-20T4	45	20	46.6	39.299	7.144	4	128	6360	18330	80	25	230	2	117	92	104.5	16	100	11	M8×1P	10	8		
50-5T5	50	5	50.6	47.324	3.175	5	129	2700	11940	70	20	95	2	100	75	87.5	16	85	11	M8×1P	10	8		
50-8T5	50	8	51	46.132	4.763	5	154	4730	17530	75	20	153	2	110	85	97.5	16	93	11	M8×1P	10	8		●
50-10T5	50	10	51.4	44.91	6.35	5	166	7050	23300	82	25	166	2	118	92	105	16	100	11	M8×1P	10	8		
50-12T5	50	12	51.4	44.91	6.35	5	169	7040	23280	82	25	186	2	118	92	105	16	100	11	M8×1P	10	8		●
50-15T5	50	15	51.4	44.91	6.35	5	171	7030	23250	82	25	214	2	118	92	105	16	100	11	M8×1P	10	8		
50-16T5	50	16	51.4	44.91	6.35	5	171	7020	23230	82	25	224	2	118	92	105	16	100	11	M8×1P	10	8		●
50-20T4	50	20	51.4	44.91	6.35	4	138	5720	18340	82	25	218	2	118	92	105	16	100	11	M8×1P	10	8	●	
50-25T4	50	25	51.4	44.91	6.35	4	134	5690	18260	75	25	263	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
50-30T4	50	30	51.4	44.91	6.35	4	136	5650	18170	75	25	299	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
50-35T3	50	35	51.4	44.91	6.35	3	105	4430	13840	75	25	271	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
50-40T3	50	40	51.4	44.91	6.35	3	104	4390	13750	75	25	295	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
50-30T2	50	30	51.6	44.299	7.144	2	70	3560	9960	82	25	190	2	118	92	105	16	100	11	M8×1P	10	8	●	●
50-12T5	50	12	51.8	43.688	7.938	5	173	9480	28776	85	25	200	2	121	95	108	16	103	11	M8×1P	10	8		●
50-16T5	50	16	51.8	43.688	7.938	5	175	9450	28710	85	25	229	2	121	95	108	16	103	11	M8×1P	10	8		●
50-20T5	50	20	51.8	43.688	7.938	5	176	9420	28630	85	25	281	2	121	95	108	16	103	11	M8×1P	10	8		●
50-50T2	50	50	51.8	43.688	7.938	2	69	3980	10860	85	25	253	2	121	95	108	16	103	11	M8×1P	10	8		●
50-20T4	50	20	52.2	42.466	9.525	4	149	9870	27420	86	25	245	2	121	95	108	16	103	11	M8×1P	10	8		
55-16T5	55	16	56.4	49.91	6.35	5	185	7420	26157	82	25	213	2	118	92	105	20	100	13.5	M8×1P	10	10		●
63-10T5	63	10	64.4	57.91	6.35	5	192	7720	29190	95	25	173	2	135	100	117.5	20	115	13.5	M8×1P	10	10		●
63-12T5	63	12	64.4	57.91	6.35	5	196	7720	29180	95	25	194	2	135	100	117.5	20	115	13.5	M8×1P	10	10		●
63-20T5	63	20	64.4	57.91	6.35	5	208	7850	30020	95	25	270	2	135	100	117.5	20	115	13.5	M8×1P	10	10		●
63-40T2	63	40	64.4	57.91	6.35	2	82	3310	11100	95	25	226	2	135	100	117.5	20	115	13.5	M8×1P	10	10	●	
63-12T5	63	12	64.8	56.688	7.938	5	202	10520	36440	98	25	194	2	138	103	120.5	20	118	13.5	M8×1P	10	10		●
63-16T4	63	16	65.2	55.466	9.525	4	175	11010	34520	107	25	206	2	147	112	129.5	20	127	13.5	M8×1P	10	10		
63-20T5	63	20	65.2	55.466	9.525	5	222	13430	43530	107	25	286	2	147	112	129.5	20	127	13.5	M8×1P	10	10		
63-25T5	63	25	65.2	55.466	9.525	5	218	13390	43420	110	25	336	2	150	115	132.5	20	130	13.5	M8×1P	10	10	●	●
70-16T4	70	16	72.2	62.466	9.525	4	187	11470	38040	115	25	216	2	155	120	137.5	25	135	13.5	M8×1P	10	12.5		
70-20T4	70	20	72.2	62.466	9.525	4	190	11450	37990	115	25	250	2	155	120	137.5	25	135	13.5	M8×1P	10	12.5		
80-10T5	80	10	81.4	74.91	6.35	5	223	8620	37980	110	25	170	2	150	115	132.5	25	130	13.5	M8×1P	10	12.5		
80-12T5	80	12	81.8	73.688	7.938	5	238	11740	47130	115	25	210	2	155	120	137.5	25	135	13.5	M8×1P	10	12.5		
80-16T4	80	16	82.2	72.466	9.525	4	206	12410	44960	125	25	216	2	170	135	152.5	25	150	13.5	M8×1P	10	12.5		●
80-20T4	80	20	82.2	72.466	9.525	4	212	12400	44910	120	25	250	2	165	130	147.5	25	145	13.5	M8×1P	10	12.5		
80-25T4	80	25	82.2	72.466	9.525	4	211	12370	44840	120	25	296	2	165	130	147.5	25	145	13.5	M8×1P	10	12.5		●
80-30T4	80	30	82.2	72.466	9.525	4	212	12340	44750	120	25	336	2	165	130	147.5	25	145	13.5	M8×1P	10	12.5		●

Precision Ground Ball Screw Series

ST — FST type standart product



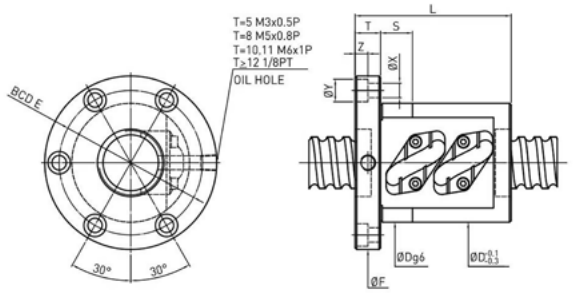
Re-circulation plate below the nut body

Re-circulation plate above the nut body

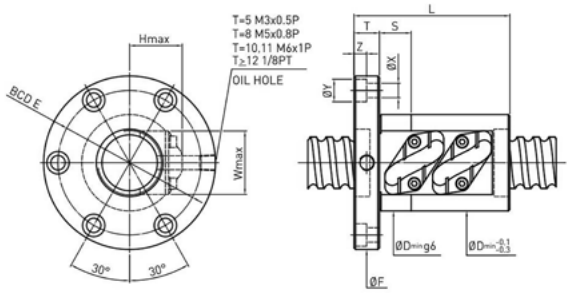
Model	Size		P.C.D	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kaf)	Nut			Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	D_{min}	L	F	T	BCD-E	W	H	X	Y	Z	S
R8-3E1	8	3	8.22	6.156	2	1.6x1	7.9	230	350	21	17	28	36	5	28	14	12	4.5	0	0	0
R8-5D1	8	5	8.22	6.156	2	2.6x1	11.5	360	600	24	18	37	44	8	34	15	13	4.5	8	4	0
R10-4D1	10	4	9.82	7.756	2	2.6x1	14	410	770	24	20	39	46	10	36	16	13	4.5	8	4	10
R10-5E1	10	5	10.02	7.956	2	1.6x1	10.1	270	470	23	19	30	46	10	36	15	13	4.5	8	4	10
R10-4D1	10	4	10.2	7.742	2.381	2.6x1	15.8	500	870	27	23	41	49	10	37	17	16	4.5	8	4	10
R12-5D1	12	5	12.1	9.642	2.381	2.6x1	18.9	560	1090	31	24	40	50	10	40	18	18	4.5	8	4	12
R12-6D1	12	6	12.1	9.642	2.381	2.6x1	18.9	560	1090	29	24	43	50	10	40	20	16	4.5	8	4	12
R12-10E1	12	10	12.08	9.622	2.381	1.6x1	11.5	360	650	30	24	42	50	10	40	17	17	4.5	8	4	12
R12-10D1	12	10	12.08	9.622	2.381	2.6x1	18.4	550	1070	31	25	50	50	10	40	19	18	4.5	8	4	12
R12-20E1	12	20	12.25	9.792	2.381	1.6x1	10.8	350	670	29	25	65	50	10	40	20	16	4.5	8	4	12
R14-4D1	14	4	14.25	11.792	2.381	2.6x1	20.7	600	1250	32	26	41	52	10	42	20	17	4.5	8	4	12
R15-5D1	15	5	15.6	12.324	3.175	2.6x1	23.3	920	1820	35	30	44	58	10	45	23	20	5.5	9.5	5.5	12
R15-10D1	15	10	15.64	12.364	3.175	2.6x1	23.2	900	1800	34	30	55	57	11	45	24	19	5.5	9.5	5.5	12
R15-20E1	15	20	15.675	12.399	3.175	1.6x1	13.9	570	1110	40	32	64	60	11	47	25	22	5.5	9.5	5.5	12
R15-30E1	15	30	15.6	12.324	3.175	1.6x1	13.1	560	1150	41	33	85	62	11	50	27	21	5.5	9.5	5.5	12
R16-5D1	16	5	16.6	12.324	3.175	2.6x1	24.5	950	1960	38	31	45	64	12	51	24	20	5.5	9.5	5.5	12
R16-5D2	16	5	16.6	12.324	3.175	2.6x2	47.7	1730	3920	38	31	60	64	12	51	24	20	5.5	9.5	5.5	12
R16-10D1	16	10	16.6	12.324	3.175	2.6x1	24.6	940	1930	39	31	60	64	12	51	23	21	5.5	9.5	5.5	12
R20-4D1	20	4	20.25	17.792	2.381	2.6x1	27.4	720	1850	40	36	42	68	12	55	26	22	5.5	9.5	5.5	12
R20-4D2	20	4	20.25	17.792	2.381	2.6x2	53.3	1310	3700	40	36	54	68	12	55	26	22	5.5	9.5	5.5	12
R20-5D1	20	5	20.6	17.324	3.175	2.6x1	29.3	1070	2490	42	37	45	68	12	55	26	23	5.5	9.5	5.5	12
R20-5D2	20	5	20.6	17.324	3.175	2.6x2	56.8	1950	4980	42	37	60	68	12	55	26	23	5.5	9.5	5.5	12
R20-40E1	20	40	20.36	17.084	3.175	1.6x1	22.1	630	1500	48	41	100	73	12	60	33	24	5.5	9.5	5.5	12
R20-10D1	20	10	20.8	16.744	3.969	2.6x1	32.7	1410	3040	46	40	54	72	12	59	30	25	5.5	9.5	5.5	12
R25-4D2	25	4	25.25	22.792	2.381	2.6x2	63.2	1450	4740	46	42	48	69	11	57	30	25	5.5	9.5	5.5	12
R25-5D2	25	5	25.57	22.294	3.175	2.6x2	67.4	2170	6310	49	44	60	74	12	62	33	25	5.5	9.5	5.5	12
R25-10D1	25	10	25.6	22.324	3.175	2.6x1	35.8	1180	3130	49	44	65	74	12	62	31	26	5.5	9.5	5.5	12
R25-12E1	25	12	25.8	21.744	3.969	1.6x1	24.8	1040	2370	55	47	48	78	11	64	33	29	6.6	11	6.5	12
R25-12D1	25	12	25.8	21.744	3.969	2.6x1	39.5	1590	3860	53	46	60	78	11	64	33	28	6.6	11	6.5	12
R25-12P1	25	12	25.8	21.744	3.969	3.6x1	53.9	2100	5350	53	46	72	78	11	64	33	28	6.6	11	6.5	12
R25-25E1	25	25	26.03	21.974	3.969	1.6x1	24.6	1030	2410	55	50	78	82	12	69	37	29	6.6	11	6.5	12
R25-8D1	25	8	26	21.132	4.763	2.6x1	40.6	2050	4700	57	48	56	86	15	73	34	30	6.6	11	6.5	12
R25-8D2	25	8	26	21.132	4.763	2.6x2	78.7	3730	9400	57	48	80	86	15	73	34	30	6.6	11	6.5	12
R25-10E2	25	10	26.1	21.232	4.763	1.6x2	49.7	2440	5770	55	49	75	86	15	73	35	30	6.6	11	6.5	12
R25-10D1	25	10	26.1	21.232	4.763	2.6x1	40.7	2040	4690	55	49	65	86	15	73	35	30	6.6	11	6.5	12
R25-10D2	25	10	26.1	21.232	4.763	2.6x2	79.7	3710	9380	55	49	97	86	15	73	35	30	6.6	11	6.5	12
R25-16D1	25	16	26	21.132	4.763	2.6x1	40.6	2010	4630	57	49	83	86	15	73	36	29	6.6	11	6.5	12
R25-20D1	25	20	26	21.132	4.763	2.6x1	40	1990	4590	55	48	95	86	15	73	35	29	6.6	11	6.5	12
R28-5D1	28	5	28.76	25.484	3.175	2.6x1	37.7	1250	3550	54	48	45	85	12	69	34	28	6.6	11	6.5	12
R28-5D2	28	5	28.76	25.484	3.175	2.6x2	73.3	2280	7100	54	48	60	85	12	69	34	28	6.6	11	6.5	12
R28-6D1	28	6	28.6	25.324	3.175	2.6x1	38.3	1250	3550	55	47	48	85	12	69	34	27	6.6	11	6.5	12
R28-6D2	28	6	28.6	25.324	3.175	2.6x2	74.4	2280	7100	55	47	63	85	12	69	34	27	6.6	11	6.5	12
R28-8D1	28	8	29	24.132	4.763	2.6x1	44.2	2170	5300	58	52	60	86	12	73	37	31	6.6	11	6.5	12
R28-8D2	28	8	29	24.132	4.763	2.6x2	85.8	3950	10600	58	52	83	86	12	73	37	31	6.6	11	6.5	12
R28-8P1	28	8	29	24.132	4.763	3.6x1	60.3	2880	7340	58	52	65	86	12	73	37	31	6.6	11	6.5	12
R28-8P2	28	8	29	24.132	4.763	3.6x2	117.1	5230	14680	58	52	97	86	12	73	37	31	6.6	11	6.5	12
R28-10D1	28	10	29	24.132	4.763	2.6x1	44.7	2170	5290	60	53	64	88	12	75	39	32	6.6	11	6.5	12
R28-10D2	28	10	29	24.132	4.763	2.6x2	86.7	3940	10580	60	53	94	88	12	75	39	32	6.6	11	6.5	12

Precision Ground Ball Screw Series

ST — FST type standart product



Re-circulation plate below the nut body

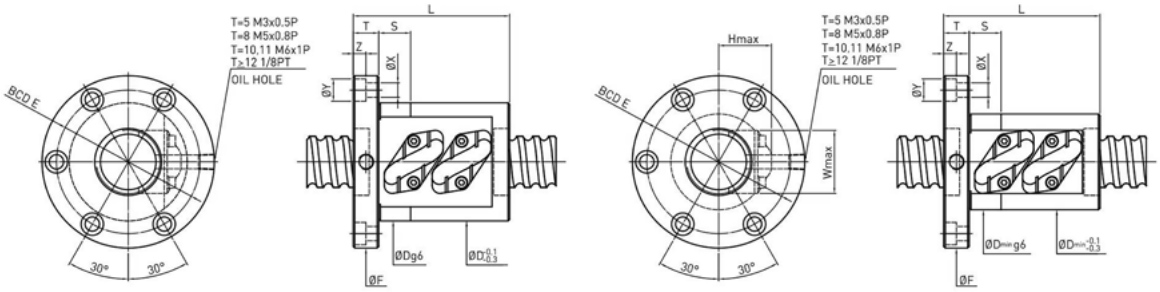


Re-circulation plate above the nut body

Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	D_{min}	L	F	T	BCD-E	W	H	X	Y	Z	S
R28-12C2	28	12	29	24.132	4.763	3.6x2	118.7	5200	14610	60	52	125	86	12	73	37	32	6.6	11	6.5	12
R28-16B2	28	16	29.4	22.91	6.35	2.6x2	87.6	5520	13440	66	56	128	94	12	80	39	35	6.6	11	6.5	12
R32-4B2	32	4	32.25	29.792	2.381	2.6x2	74.4	1600	6080	54	50	55	84	12	71	35	27	6.6	11	6.5	12
R32-5B2	32	5	32.4	29.124	3.175	2.6x2	80.3	2420	8160	57	52	60	84	12	71	34	29	6.6	11	6.5	12
R32-6B2	32	6	32.94	28.884	3.969	2.6x2	90.8	3310	10270	60	56	63	88	12	75	39	31	6.6	11	6.5	12
R32-10B2	32	10	32.62	28.564	3.969	2.6x2	93.8	3300	10230	58	54	87	84	12	71	38	31	6.6	11	6.5	12
R32-8B2	32	8	33.16	28.292	4.763	2.6X2	92.3	4130	11820	62	58	86	96	16	78	40	33	9	14	8.5	15
R32-10B2	32	10	33	28.132	4.763	2.6X2	93.3	4120	11800	60	57	95	96	16	78	39	33	9	14	8.5	15
R32-12B2	32	12	33	28.132	4.763	2.6X2	93.9	4110	11770	61	57	105	96	16	78	39	33	9	14	8.5	15
R32-20B1	32	20	33	28.132	4.763	2.6X1	50.3	2300	6090	64	57	100	102	16	84	40	34	9	14	8.5	15
R32-25B1	32	25	33.1	28.232	4.763	2.6X1	49.6	2270	6030	63	58	110	102	16	84	41	32	9	14	8.5	15
R32-10E2	32	10	33.4	26.91	6.35	1.6x2	61.3	3980	9650	68	62	80	102	16	84	43	36	9	14	8.5	15
R32-10D2	32	10	33.4	26.91	6.35	2.6x2	97.6	6040	15690	70	61	98	108	16	90	43	36	9	14	8.5	15
R32-10P1	32	10	33.4	26.91	6.35	3.6x1	68.7	4400	10860	70	60	78	108	16	90	42	37	9	14	8.5	15
R32-12E2	32	12	33.4	26.91	6.35	1.6x2	61.7	3970	9630	68	60	97	108	18	90	42	35	9	14	8.5	15
R32-12D2	32	12	33.4	26.91	6.35	2.6x2	97.9	6020	15660	66	60	110	108	18	90	42	35	9	14	8.5	15
R32-12P1	32	12	33.4	26.91	6.35	3.6x1	69	4390	10840	69	61	98	108	18	90	43	36	9	14	8.5	15
R32-16D1	32	16	33.4	26.91	6.35	2.6x1	50.7	3290	7790	71	61	94	108	16	90	44	37	9	14	8.5	15
R32-16D2	32	16	33.4	26.91	6.35	2.6x2	98.4	5980	15580	71	61	130	108	16	90	44	37	9	14	8.5	15
R32-16P1	32	16	33.4	26.91	6.35	3.6x1	69.2	4360	10790	71	61	100	108	16	90	44	37	9	14	8.5	15
R32-20D1	32	20	33.4	26.91	6.35	2.6x1	50.4	3270	7740	68	60	98	108	16	90	42	36	9	14	8.5	15
R32-12D2	32	12	33.6	26.299	7.144	2.6x2	97.9	6900	17180	74	64	115	108	16	90	44	39	9	14	8.5	15
R32-12P1	32	12	33.6	26.299	7.144	3.6x1	68.8	5020	11900	74	64	95	108	16	90	44	39	9	14	8.5	15
R32-15D2	32	15	33.6	26.299	7.144	2.6x2	98.1	6860	17120	74	65	130	108	16	90	46	39	9	14	8.5	15
R32-16D2	32	16	33.6	26.299	7.144	2.6x2	98	6850	17100	74	65	139	108	16	90	45	39	9	14	8.5	15
R36-6D2	36	6	36.8	32.744	3.969	2.6x2	98.1	3470	11510	65	60	68	100	12	82	43	33	6.6	11	6.5	12
R36-10D2	36	10	37.45	30.96	6.35	2.6x2	106.9	6430	17810	72	65	102	125	18	98	45	38	11	17.5	11	15
R36-16E2	36	16	37.4	30.91	6.35	1.6x2	68.3	4210	10900	74	66	105	120	18	98	47	38	11	17.5	11	15
R36-16D2	36	16	37.4	30.91	6.35	2.6x2	108.6	6390	17720	74	66	140	120	18	98	47	38	11	17.5	11	15
R36-20D1	36	20	37.4	30.91	6.35	2.6x1	55.9	3490	8810	76	66	100	120	18	98	47	39	11	17.5	11	15
R40-8E2	40	8	41	36.132	4.763	1.6x2	70.3	3070	9460	75	70	70	108	16	90	47	38	9	14	8.5	15
R40-8D2	40	8	41	36.132	4.763	2.6x2	111.9	4670	15380	74	72	86	108	16	90	50	38	9	14	8.5	15
R40-8P2	40	8	41	36.132	4.763	3.6x2	152.9	6180	21300	74	70	100	108	16	90	47	38	9	14	8.5	15
R40-10D2	40	10	41	36.132	4.763	2.6x2	113.3	4660	15360	72	66	100	108	16	90	46	37	9	14	8.5	15
R40-16D2	40	16	41	36.132	4.763	2.6x2	115.5	4630	15290	72	69	134	108	16	90	48	37	9	14	8.5	15
R40-10D2	40	10	41.4	34.91	6.35	2.6x2	116	6790	19940	78	74	102	125	18	104	53	41	11	17.5	11	15
R40-10P1	40	10	41.4	34.91	6.35	3.6x1	81.7	4950	13800	79	70	82	125	18	104	48	41	11	17.5	11	15
R40-12D2	40	12	41.4	34.91	6.35	2.6x2	117.2	6780	19910	78	70	117	128	18	106	48	41	11	17.5	11	15
R40-12P2	40	12	41.4	34.91	6.35	3.6x2	160	8970	27570	78	71	141	128	18	106	50	40	11	17.5	11	15
R40-16D2	40	16	41.49	35	6.35	2.6x2	118.5	6750	19850	81	73	139	128	18	106	48	41	11	17.5	11	15
R40-20E1	40	20	41.4	34.91	6.35	1.6x1	38.4	2430	6080	80	72	84	128	18	106	49	42	11	17.5	11	15
R40-20E2	40	20	41.4	34.91	6.35	1.6x2	74.5	4420	12160	80	72	124	128	18	106	49	42	11	17.5	11	15
R40-20D1	40	20	41.4	34.91	6.35	2.6x1	61.6	3700	9880	80	71	104	128	18	106	49	42	11	17.5	11	15
R40-20D2	40	20	41.4	34.91	6.35	2.6x2	118.5	6710	19760	80	71	161	128	18	106	49	42	11	17.5	11	15
R40-20P1	40	20	41.4	34.91	6.35	3.6x1	83.4	4890	13680	80	71	121	128	18	106	49	42	11	17.5	11	15
R40-25E1	40	25	41.4	34.91	6.35	1.6x1	38.2	2410	6040	78	73	90	128	18	106	52	40	11	17.5	11	15
R40-25D1	40	25	41.4	34.91	6.35	2.6x1	60.7	3670	9820	78	73	115	128	18	106	52	40	11	17.5	11	15
R40-10E2	40	10	41.6	34.299	7.144	1.6x2	74.6	5250	13870	82	73	82	128	18	106	51	42	11	17.5	11	20

Precision Ground Ball Screw Series

ST — FST type standart product



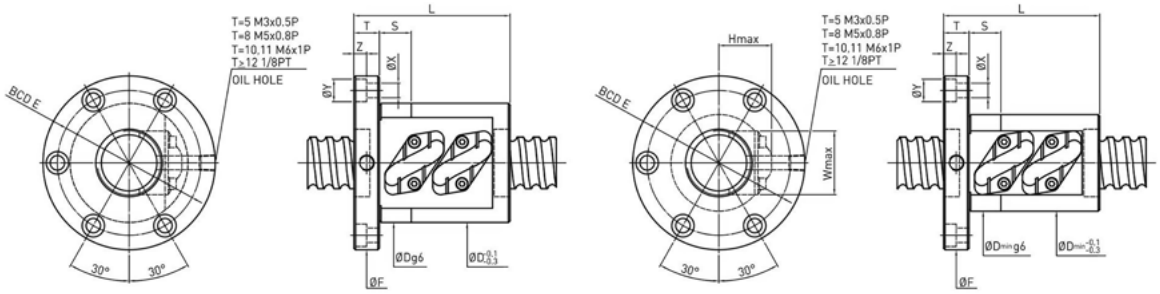
Re-circulation plate below the nut body

Re-circulation plate above the nut body

Model	Size		P.C.D	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kaf)	Nut			Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	D_{min}	L	F	T	BCD-E	W	H	X	Y	Z	S
R40-10D2	40	10	41.6	34.299	7.144	2.6x2	118.8	7980	22550	82	73	102	128	18	106	51	42	11	17.5	11	20
R40-10P2	40	10	41.6	34.299	7.144	3.6x2	162.2	10550	31220	82	73	122	128	18	106	51	42	11	17.5	11	20
R40-12E2	40	12	41.6	34.299	7.144	1.6x2	75.3	5240	13860	80	73	93	128	18	106	52	42	11	17.5	11	20
R40-12D1	40	12	41.6	34.299	7.144	2.6x1	61.7	4390	11260	79	74	81	128	18	106	52	42	11	17.5	11	20
R40-12D2	40	12	41.6	34.299	7.144	2.6x2	119.7	7960	22520	79	74	117	128	18	106	52	42	11	17.5	11	20
R40-12P1	40	12	41.6	34.299	7.144	3.6x1	84.2	5800	15590	79	74	93	128	18	106	52	41	11	17.5	11	20
R40-12P2	40	12	41.6	34.299	7.144	3.6x2	163.4	10540	31180	79	74	141	128	18	106	52	41	11	17.5	11	20
R40-16E2	40	16	41.6	34.299	7.144	1.6x2	76.1	5220	13810	81	73	118	128	18	106	49	42	11	17.5	11	20
R40-16D1	40	16	41.6	34.299	7.144	2.6x1	62.4	4370	11220	81	72	102	128	18	106	49	42	11	17.5	11	20
R40-16D2	40	16	41.6	34.299	7.144	2.6x2	121	7930	22450	81	72	145	128	18	106	49	42	11	17.5	11	20
R40-16P1	40	16	41.6	34.299	7.144	3.6x1	85.1	5780	15540	81	73	118	128	18	106	49	42	11	17.5	11	20
R40-20E2	40	20	41.6	34.299	7.144	1.6x2	76.2	5190	13750	82	74	124	128	18	106	52	42	11	17.5	11	20
R40-20D1	40	20	41.6	34.299	7.144	2.6x1	62.5	4340	11170	82	74	104	128	18	106	52	42	11	17.5	11	20
R40-20D2	40	20	41.6	34.299	7.144	2.6x2	121.2	7890	22350	82	74	161	128	18	106	52	42	11	17.5	11	20
R40-20P1	40	20	41.6	34.299	7.144	3.6x1	85.3	5750	15470	82	74	121	128	18	106	52	42	11	17.5	11	20
R40-25E1	40	25	41.6	34.299	7.144	1.6x1	39.1	2840	6830	83	73	90	128	18	106	51	43	11	17.5	11	20
R40-25D1	40	25	41.6	34.299	7.144	2.6x1	62.2	4310	11100	83	73	115	128	18	106	51	43	11	17.5	11	20
R45-5D2	45	5	45.6	42.324	3.175	2.6x2	100.6	2780	11610	72	68	65	108	16	90	45	37	9	14	8.5	15
R45-8D2	45	8	46	41.132	4.763	2.6x2	120.4	4880	17180	80	75	84	116	16	98	50	39	9	14	8.5	15
R45-10D1	45	10	46.4	39.91	6.35	2.6x1	66.5	4020	11540	84	77	74	132	18	110	53	44	11	17.5	11	15
R45-10D2	45	10	46.4	39.91	6.35	2.6x2	129.1	7300	23090	84	77	104	132	18	110	53	44	11	17.5	11	15
R45-12E2	45	12	46.4	39.91	6.35	1.6x2	75.3	4800	14190	85	78	86	132	18	110	53	43	11	17.5	11	15
R45-16E2	45	16	46.4	39.91	6.35	1.6x2	83.2	4780	14160	84	78	102	132	18	110	53	43	11	17.5	11	15
R45-20D2	45	20	46.4	39.91	6.35	2.6x2	132.9	7230	22930	84	78	162	132	18	110	53	44	11	17.5	11	15
R45-20P1	45	20	46.4	39.91	6.35	3.6x1	93.5	5270	15870	84	78	120	132	18	110	53	44	11	17.5	11	15
R45-12D2	45	12	46.6	39.299	7.144	2.6x2	130	8390	25230	87	80	115	132	18	110	55	45	11	17.5	11	20
R45-25E1	45	25	46.6	39.299	7.144	1.6x1	42.8	3000	7670	90	82	90	132	18	110	58	47	11	17.5	11	20
R45-25D1	45	25	46.6	39.299	7.144	2.6x1	68.1	4550	12470	90	82	115	132	18	110	58	47	11	17.5	11	20
R45-25P1	45	25	46.6	39.299	7.144	3.6x1	93	6030	17270	90	82	140	132	18	110	58	47	11	17.5	11	20
R45-12D2	45	12	46.8	38.688	7.938	2.6x2	131.7	9620	27850	92	84	123	142	22	117	58	47	13	20	13	20
R45-20D2	45	20	46.8	38.688	7.938	2.6x2	133.7	9550	27690	91	80	175	142	22	117	55	47	13	20	13	20
R45-25D1	45	25	46.8	38.688	7.938	2.6x1	68.9	5220	13770	93	81	124	142	22	117	55	48	13	20	13	20
R50-8D2	50	8	51	46.132	4.763	2.6x2	127.8	5070	18980	83	80	88	128	18	107	55	41	11	17.5	11	15
R50-8D3	50	8	51	46.132	4.763	2.6x3	188.5	7180	28470	83	80	112	128	18	107	55	41	11	17.5	11	15
R50-12D1	50	12	51	46.132	4.763	2.6x1	68.4	2780	9470	85	82	74	128	18	107	57	43	11	17.5	11	15
R50-10D2	50	10	51.4	44.91	6.35	2.6x2	136.9	7550	25240	90	85	104	135	18	114	57	47	11	17.5	11	15
R50-20D2	50	20	51.4	44.91	6.35	2.6x2	141.9	7490	25100	90	83	162	135	18	114	55	46	11	17.5	11	15
R50-25D2	50	25	51.6	44.299	7.144	2.6x2	143	8670	27680	95	90	191	140	18	118	64	47	11	17.5	11	15
R50-12D1	50	12	51.8	43.688	7.938	2.6x1	73.4	5590	15580	96	90	87	150	22	125	62	50	13	20	13	20
R50-12D2	50	12	51.8	43.688	7.938	2.6x2	142.5	10150	31170	96	90	123	150	22	125	62	50	13	20	13	20
R50-16E2	50	16	51.8	43.688	7.938	1.6x2	91	6670	19140	96	89	113	150	22	125	61	50	13	20	13	20
R50-16D2	50	16	51.8	43.688	7.938	2.6x2	144.8	10120	31100	97	88	152	150	22	125	61	50	13	20	13	20
R50-16P2	50	16	51.8	43.688	7.938	3.6x2	197.5	13390	43070	96	89	184	150	22	125	61	50	13	20	13	20
R50-20E2	50	20	51.8	43.688	7.938	1.6x2	91.6	6640	19090	98	91	134	150	22	125	63	50	13	20	13	20
R50-20D2	50	20	51.8	43.688	7.938	2.6x2	145.7	10090	31020	97	89	165	150	22	125	62	50	13	20	13	20
R50-20P1	50	20	51.8	43.688	7.938	3.6x1	102.6	7350	21470	98	91	130	150	22	125	63	50	13	20	13	20
R50-25D2	50	25	51.8	43.688	7.938	2.6x2	145.7	10030	30890	99	88	193	150	22	125	60	49	13	20	13	20
R50-20D2	50	20	52.2	42.466	9.525	2.6x2	152.7	13500	37530	99	93	175	152	28	128	67	51	13	20	13	30

Precision Ground Ball Screw Series

ST — FST type standart product



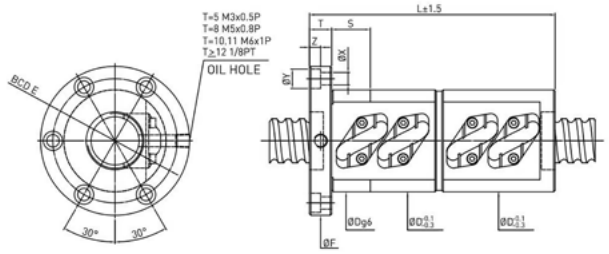
Re-circulation plate below the nut body

Re-circulation plate above the nut body

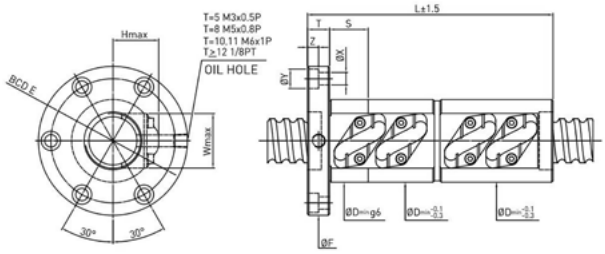
Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	D_{min}	L	F	T	BCD-E	W	H	X	Y	Z	S
R55-10D2	55	10	56.46	49.97	6.35	2.6x2	144.2	7790	27390	95	92	103	144	18	122	62	48	11	17.5	11	20
R55-20D2	55	20	56.6	49.299	7.144	2.6x2	157.8	9330	31780	96	93	165	144	18	122	64	49	11	17.5	11	20
R55-24E1	55	24	56.6	49.299	7.144	1.6x1	51.5	3370	9750	99	93	94	144	18	122	64	50	11	17.5	11	20
R55-24E2	55	24	56.6	49.299	7.144	1.6x2	99.8	6120	19500	99	93	142	144	18	122	64	50	11	17.5	11	20
R55-24D2	55	24	56.6	49.299	7.144	2.6x2	158.7	9290	31690	99	93	189	144	18	122	64	50	11	17.5	11	20
R60-24E2	60	24	62.2	52.466	9.525	1.6x2	108.7	9285	27490	113	104	150	170	22	145	71	58	13	20	13	20
R60-32P1	60	32	62.2	52.466	9.525	3.6x1	123.8	10731	30750	114	105	180	170	22	145	72	57	13	20	13	20
R63-8D2	63	8	64	59.132	4.763	2.6x2	151.3	5610	24340	102	98	100	146	18	124	66	49	11	17.5	11	20
R63-10D2	63	10	64.4	57.91	6.35	2.6x2	159.4	8270	31630	107	103	107	152	20	130	71	52	11	17.5	11	20
R63-10D3	63	10	64.4	57.91	6.35	2.6x3	235.1	11720	47440	107	103	137	152	20	130	71	52	11	17.5	11	20
R63-12D2	63	12	64.8	56.688	7.938	2.6x2	167.5	11270	39470	110	106	124	166	22	141	71	57	13	20	13	20
R63-32D1	63	32	64.8	56.688	7.938	2.6x1	90.2	6120	19530	113	107	145	166	22	141	76	55	13	20	13	20
R63-16D2	63	16	65.2	55.466	9.525	2.6x2	178.6	14861	47240	122	114	153	172	22	147	82	60	13	20	13	20
R63-20D2	63	20	65.2	55.466	9.525	2.6x2	180.3	14861	47160	118	111	176	172	22	147	77	60	13	20	13	20
R63-25D2	63	25	65.2	55.466	9.525	2.6x2	181.7	14861	47040	118	110	200	172	22	147	76	59	13	20	13	20
R63-32E2	63	32	65.2	55.466	9.525	1.6x2	113.9	9629	28810	115	107	180	172	22	147	73	58	13	20	13	20
R70-32D1	70	32	71.8	63.688	7.938	2.6x1	99.2	6470	22020	125	119	150	178	22	152	85	62	13	20	13	20
R80-16D2	80	16	82.2	72.466	9.525	2.6x2	214.2	16483	61530	142	136	156	210	28	174	97	68	18	26	17.5	25
R80-16D3	80	16	82.2	72.466	9.525	2.6x3	315.9	23361	92300	142	136	204	210	28	174	97	68	18	26	17.5	25
R80-24D2	80	24	82.2	72.466	9.525	2.6x2	219	16483	61380	134	130	209	210	28	174	86	67	18	26	17.5	25
R80-32D2	80	32	82.2	72.466	9.525	2.6x2	222.5	16483	61180	142	137	250	210	28	174	98	68	18	26	17.5	25

Precision Ground Ball Screw Series

ST — FDT type standart product



Re-circulation plate below the nut body

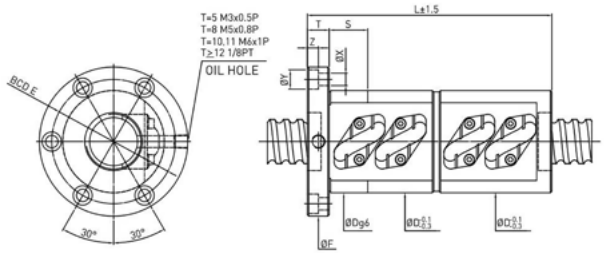


Re-circulation plate above the nut body

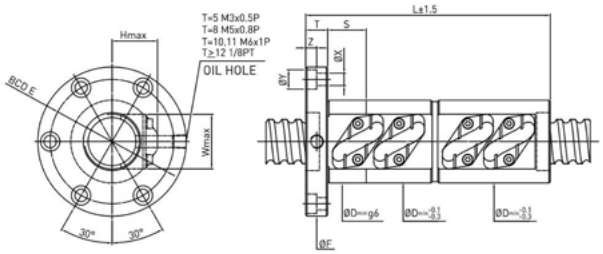
Model	Size		P.C.D	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kaf)	Nut			Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	D_{min}	L	F	T	BCD-E	W	H	X	Y	Z	S
R8-3E1	8	3	8.22	6.156	2	1.6x1	10.4	230	350	21	17	57	36	5	28	14	12	4.5	0	0	0
R8-5D1	8	5	8.22	6.156	2	2.6x1	15.1	360	600	24	18	74	44	8	34	15	13	4.5	8	4	0
R10-4D1	10	4	9.82	7.756	2	2.6x1	18.4	410	770	24	20	73	46	10	36	16	13	4.5	8	4	20
R10-5E1	10	5	10.02	7.956	2	1.6x1	13.2	270	470	23	19	57	46	10	36	15	13	4.5	8	4	20
R10-4D1	10	4	10.2	7.742	2.381	2.6x1	18.4	500	870	27	23	80	49	10	37	17	16	4.5	8	4	20
R12-5D1	12	5	12.1	9.642	2.381	2.6x1	24.8	560	1090	31	24	78	50	10	40	18	18	4.5	8	4	24
R12-6D1	12	6	12.1	9.642	2.381	2.6x1	24.8	560	1090	29	24	82	50	10	40	20	16	4.5	8	4	24
R12-10E1	12	10	12.08	9.622	2.381	1.6x1	15.1	360	650	30	24	85	50	10	40	17	17	4.5	8	4	24
R12-10D1	12	10	12.08	9.622	2.381	2.6x1	24.1	550	1070	31	25	103	50	10	40	19	18	4.5	8	4	24
R12-20D1	12	20	12.25	9.792	2.381	1.6x1	14.2	350	670	29	25	128	50	10	40	20	16	4.5	8	4	24
R14-4D1	14	4	14.25	11.792	2.381	2.6x1	27.3	600	1250	32	26	80	52	10	42	20	17	4.5	8	4	24
R15-5D1	15	5	15.6	12.324	3.175	2.6x1	30.7	920	1820	35	30	88	58	10	45	23	20	5.5	9.5	5.5	24
R15-10D1	15	10	15.64	12.364	3.175	2.6x1	30.5	900	1800	34	30	109	57	11	45	24	19	5.5	9.5	5.5	24
R15-20E1	15	20	15.675	12.399	3.175	1.6x1	18.2	570	1110	40	32	128	60	11	47	25	22	5.5	9.5	5.5	24
R15-30E1	15	30	15.6	12.324	3.175	1.6x1	17.1	560	1150	41	33	179	62	11	50	27	21	5.5	9.5	5.5	24
R16-5D1	16	5	16.6	12.324	3.175	2.6x1	32.4	950	1960	38	31	89	64	12	51	24	20	5.5	9.5	5.5	24
R16-5D2	16	5	16.6	12.324	3.175	2.6x2	62.9	1730	3920	38	31	119	64	12	51	24	20	5.5	9.5	5.5	24
R16-10D1	16	10	16.6	12.324	3.175	2.6x1	32.3	940	1930	39	31	124	64	12	51	23	21	5.5	9.5	5.5	24
R20-4D1	20	4	20.25	17.792	2.381	2.6x1	36.3	720	1850	40	36	81	68	12	55	26	22	5.5	9.5	5.5	24
R20-4D2	20	4	20.25	17.792	2.381	2.6x2	70.6	1310	3700	40	36	105	68	12	55	26	22	5.5	9.5	5.5	24
R20-5D1	20	5	20.6	17.324	3.175	2.6x1	38.7	1070	2490	42	37	89	68	12	55	26	23	5.5	9.5	5.5	24
R20-5D2	20	5	20.6	17.324	3.175	2.6x2	75.1	1950	4980	42	37	119	68	12	55	26	23	5.5	9.5	5.5	24
R20-40E1	20	40	20.36	17.084	3.175	1.6x1	20.9	630	1500	48	41	224	72	12	60	33	24	5.5	9.5	5.5	24
R20-10D1	20	10	20.8	16.744	3.969	2.6x1	43	1410	3040	46	40	108	72	12	59	30	25	5.5	9.5	5.5	24
R25-4D2	25	4	25.25	22.792	2.381	2.6x2	84	1450	4740	46	42	91	69	11	57	30	25	5.5	9.5	5.5	24
R25-5D2	25	5	25.57	22.294	3.175	2.6x2	89.2	2170	6310	49	44	119	74	12	62	33	25	5.5	9.5	5.5	24
R25-10D1	25	10	25.6	22.324	3.175	2.6x1	47.1	1180	3130	49	44	129	74	12	62	31	26	5.5	9.5	5.5	24
R25-12E1	25	12	25.8	21.744	3.969	1.6x1	32.6	1040	2370	55	47	100	78	11	64	33	29	6.6	11	6.5	24
R25-12D1	25	12	25.8	21.744	3.969	2.6x1	52	1590	3860	53	46	124	78	11	64	33	28	6.6	11	6.5	24
R25-12P1	25	12	25.8	21.744	3.969	3.6x1	70.9	2100	5350	53	46	148	78	11	64	33	28	6.6	11	6.5	24
R25-25E1	25	25	26.03	21.974	3.969	1.6x1	32.3	1030	2410	55	50	157	82	12	69	37	29	6.6	11	6.5	24
R25-8D1	25	8	26	21.132	4.763	2.6x1	53.5	2050	4700	57	48	109	86	15	73	34	30	6.6	11	6.5	24
R25-8D2	25	8	26	21.132	4.763	2.6x2	103.9	3730	9400	57	48	157	86	15	73	34	30	6.6	11	6.5	24
R25-10E2	25	10	26.1	21.232	4.763	1.6x2	65.5	2440	5770	55	49	150	86	15	73	35	30	6.6	11	6.5	24
R25-10D1	25	10	26.1	21.232	4.763	2.6x1	47.1	2040	4690	55	49	130	86	15	73	35	30	6.6	11	6.5	24
R25-10D2	25	10	26.1	21.232	4.763	2.6x2	104.2	3710	9380	55	49	192	86	15	73	35	30	6.6	11	6.5	24
R25-16D1	25	16	26	21.132	4.763	2.6x1	53.3	2010	4630	57	49	168	86	15	73	36	29	6.6	11	6.5	24
R25-20D1	25	20	26	21.132	4.763	2.6x1	52.5	1990	4590	55	48	200	86	15	73	35	29	6.6	11	6.5	24
R28-5D1	28	5	28.76	25.484	3.175	2.6x1	50	1250	3550	54	48	89	85	12	69	34	28	6.6	11	6.5	24
R28-5D2	28	5	28.76	25.484	3.175	2.6x2	97.2	2280	7100	54	48	119	85	12	69	34	28	6.6	11	6.5	24
R28-6D1	28	6	28.6	25.324	3.175	2.6x1	50.7	1250	3550	55	47	94	85	12	69	34	27	6.6	11	6.5	24
R28-6D2	28	6	28.6	25.324	3.175	2.6x2	98.5	2280	7100	55	47	127	85	12	69	34	27	6.6	11	6.5	24
R28-8D1	28	8	29	24.132	4.763	2.6x1	58.4	2170	5300	58	52	121	86	12	73	37	31	6.6	11	6.5	24
R28-8D2	28	8	29	24.132	4.763	2.6x2	113.3	3950	10600	58	52	168	86	12	73	37	31	6.6	11	6.5	24
R28-8P1	28	8	29	24.132	4.763	3.6x1	79.7	2880	7340	58	52	134	86	12	73	37	31	6.6	11	6.5	24
R28-8P2	28	8	29	24.132	4.763	3.6x2	154.7	5230	14680	58	52	198	86	12	73	37	31	6.6	11	6.5	24
R28-10D1	28	10	29	24.132	4.763	2.6x1	58.9	2170	5290	60	53	129	88	12	75	39	32	6.6	11	6.5	24
R28-10D2	28	10	29	24.132	4.763	2.6x2	114.3	3940	10580	60	53	189	88	12	75	39	32	6.6	11	6.5	24

Precision Ground Ball Screw Series

ST — FDT type standart product



Re-circulation plate below the nut body

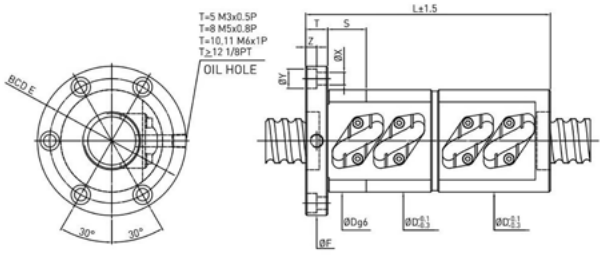


Re-circulation plate above the nut body

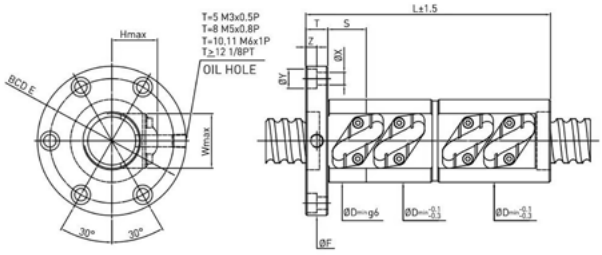
Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	D_{min}	L	F	T	BCD-E	W	H	X	Y	Z	S
R28-12P2	28	12	29	24.132	4.763	3.6x2	156.2	5200	14610	60	52	250	86	12	73	37	32	6.6	11	6.5	24
R28-16D2	28	16	29.4	22.91	6.35	2.6x2	115.1	5520	13440	66	56	263	94	12	80	39	35	6.6	11	6.5	24
R32-4D2	32	4	32.25	29.792	2.381	2.6x2	99.3	1600	6080	54	50	90	84	12	71	35	27	6.6	11	6.5	24
R32-5D2	32	5	32.4	29.124	3.175	2.6x2	106.8	2420	8160	57	52	119	84	12	71	34	29	6.6	11	6.5	24
R32-6D2	32	6	32.94	28.884	3.969	2.6x2	120.6	3310	10270	60	56	127	88	12	75	39	31	6.6	11	6.5	24
R32-10D2	32	10	32.62	28.564	3.969	2.6x2	123.9	3300	10230	58	54	171	84	12	71	38	31	6.6	11	6.5	24
R32-8D2	32	8	33.16	28.292	4.763	2.6X2	122.2	4130	11820	62	58	171	96	16	78	40	33	9	14	8.5	30
R32-10D2	32	10	33	28.132	4.763	2.6X2	123.9	4120	11800	60	57	190	96	16	78	39	33	9	14	8.5	30
R32-12D2	32	12	33	28.132	4.763	2.6X2	123.8	4110	11770	61	57	206	96	16	78	39	33	9	14	8.5	30
R32-20D1	32	20	33	28.132	4.763	2.6X1	66.1	2300	6090	64	57	205	102	16	84	40	34	9	14	8.5	30
R32-25D1	32	25	33.1	28.232	4.763	2.6X1	65.1	2270	6030	63	58	215	102	16	84	41	32	9	14	8.5	30
R32-10E2	32	10	33.4	26.91	6.35	1.6x2	80.9	3980	9650	68	62	157	102	16	84	43	36	9	14	8.5	30
R32-10D2	32	10	33.4	26.91	6.35	2.6x2	123.9	6040	15690	70	61	195	108	16	90	43	36	9	14	8.5	30
R32-10P1	32	10	33.4	26.91	6.35	3.6x1	90.6	4400	10860	70	60	155	108	16	90	42	37	9	14	8.5	30
R32-12E2	32	12	33.4	26.91	6.35	1.6x2	81.3	3970	9630	68	60	188	108	18	90	42	35	9	14	8.5	30
R32-12D2	32	12	33.4	26.91	6.35	2.6x2	123.8	6020	15660	66	60	213	108	18	90	42	35	9	14	8.5	30
R32-12P1	32	12	33.4	26.91	6.35	3.6x1	91	4390	10840	69	61	189	108	18	90	43	36	9	14	8.5	30
R32-16D1	32	16	33.4	26.91	6.35	2.6x1	66.7	3290	7790	71	61	197	108	16	90	44	37	9	14	8.5	30
R32-16D2	32	16	33.4	26.91	6.35	2.6x2	129.4	5980	15580	71	61	265	108	16	90	44	37	9	14	8.5	30
R32-16P1	32	16	33.4	26.91	6.35	3.6x1	91.1	4360	10790	71	61	203	108	16	90	44	37	9	14	8.5	30
R32-20D1	32	20	33.4	26.91	6.35	2.6x1	66.1	3270	7740	68	60	205	108	16	90	42	36	9	14	8.5	30
R32-12D2	32	12	33.6	26.299	7.144	2.6x2	123.8	6900	17180	74	64	231	108	16	90	44	39	9	14	8.5	30
R32-12P1	32	12	33.6	26.299	7.144	3.6x1	91	5020	11900	74	64	187	108	16	90	44	39	9	14	8.5	30
R32-15D2	32	15	33.6	26.299	7.144	2.6x2	129	6860	17120	74	65	258	108	16	90	46	39	9	14	8.5	30
R32-16D2	32	16	33.6	26.299	7.144	2.6x2	129.4	6850	17100	74	65	275	108	16	90	45	39	9	14	8.5	30
R36-6D2	36	6	36.8	32.744	3.969	2.6x2	130.5	3470	11510	65	60	132	100	12	82	43	33	6.6	11	6.5	24
R36-10D2	36	10	37.45	30.96	6.35	2.6x2	141.2	6430	17810	72	65	199	125	18	98	45	38	11	17.5	11	30
R36-16E2	36	16	37.4	30.91	6.35	1.6x2	89.9	4210	10900	74	66	208	120	18	98	47	38	11	17.5	11	30
R36-16D2	36	16	37.4	30.91	6.35	2.6x2	142.9	6390	17720	74	66	275	120	18	98	47	38	11	17.5	11	30
R36-20D1	36	20	37.4	30.91	6.35	2.6x1	73.5	3490	8810	76	66	207	120	18	98	47	39	11	17.5	11	30
R40-8E2	40	8	41	36.132	4.763	1.6x2	93.2	3070	9460	75	70	139	108	16	90	47	38	9	14	8.5	30
R40-8D2	40	8	41	36.132	4.763	2.6x2	148.5	4670	15380	74	72	171	108	16	90	50	38	9	14	8.5	30
R40-8P2	40	8	41	36.132	4.763	3.6x2	202.7	6180	21300	74	70	193	108	16	90	47	38	9	14	8.5	30
R40-10D2	40	10	41	36.132	4.763	2.6x2	150	4660	15360	72	66	195	108	16	90	46	37	9	14	8.5	30
R40-16D2	40	16	41	36.132	4.763	2.6x2	152.3	4630	15290	72	69	267	108	16	90	48	37	9	14	8.5	30
R40-10D2	40	10	41.4	34.91	6.35	2.6x2	150	6790	19940	78	74	199	125	18	104	53	41	11	17.5	11	30
R40-10P1	40	10	41.4	34.91	6.35	3.6x1	108.1	4950	13800	79	70	159	125	18	104	48	41	11	17.5	11	30
R40-12D2	40	12	41.4	34.91	6.35	2.6x2	154.8	6780	19910	78	70	232	128	18	106	48	41	11	17.5	11	30
R40-12P2	40	12	41.4	34.91	6.35	3.6x2	211.2	8970	27570	78	71	280	128	18	106	50	40	11	17.5	11	30
R40-16D2	40	16	41.49	35	6.35	2.6x2	152.3	6750	19850	81	73	274	128	18	106	48	41	11	17.5	11	30
R40-20E1	40	20	41.4	34.91	6.35	1.6x1	50.5	2430	6080	80	72	171	128	18	106	49	42	11	17.5	11	30
R40-20E2	40	20	41.4	34.91	6.35	1.6x2	98	4420	12160	80	72	251	128	18	106	49	42	11	17.5	11	30
R40-20D1	40	20	41.4	34.91	6.35	2.6x1	80.4	3700	9880	80	71	211	128	18	106	49	42	11	17.5	11	30
R40-20D2	40	20	41.4	34.91	6.35	2.6x2	155.8	6710	19760	80	71	328	128	18	106	49	42	11	17.5	11	30
R40-20P1	40	20	41.4	34.91	6.35	3.6x1	109.7	4890	13680	80	71	248	128	18	106	49	42	11	17.5	11	30
R40-25E1	40	25	41.4	34.91	6.35	1.6x1	50.2	2410	6040	78	73	197	128	18	106	52	40	11	17.5	11	30
R40-25D1	40	25	41.4	34.91	6.35	2.6x1	79.8	3670	9820	78	73	247	128	18	106	52	40	11	17.5	11	30
R40-10E2	40	10	41.6	34.299	7.144	1.6x2	98.8	5250	13870	82	73	160	128	18	106	51	42	11	17.5	11	40

Precision Ground Ball Screw Series

ST — FDT type standart product



Re-circulation plate below the nut body

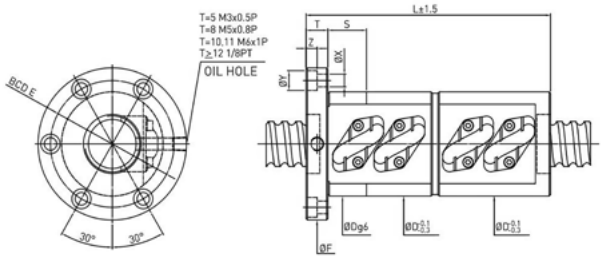


Re-circulation plate above the nut body

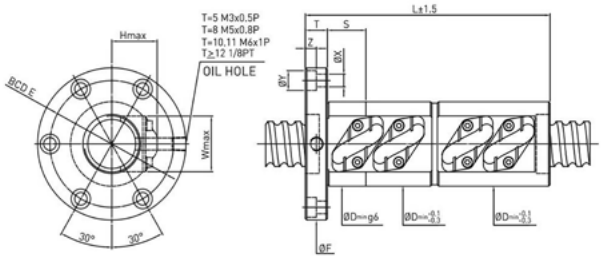
Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	D_{min}	L	F	T	BCD-E	W	H	X	Y	Z	S
R40-10D2	40	10	41.6	34.299	7.144	2.6x2	150	7980	22550	82	73	200	128	18	106	51	42	11	17.5	11	40
R40-10P2	40	10	41.6	34.299	7.144	3.6x2	214.5	10550	31220	82	73	240	128	18	106	51	42	11	17.5	11	40
R40-12E2	40	12	41.6	34.299	7.144	1.6x2	99.4	5240	13860	80	73	185	128	18	106	52	42	11	17.5	11	40
R40-12D1	40	12	41.6	34.299	7.144	2.6x1	81.5	4390	11260	79	74	161	128	18	106	52	42	11	17.5	11	40
R40-12D2	40	12	41.6	34.299	7.144	2.6x2	154.8	7960	22520	79	74	233	128	18	106	52	42	11	17.5	11	40
R40-12P1	40	12	41.6	34.299	7.144	3.6x1	111.2	5800	15590	79	74	185	128	18	106	52	41	11	17.5	11	40
R40-12P2	40	12	41.6	34.299	7.144	3.6x2	211.2	10540	31180	79	74	281	128	18	106	52	41	11	17.5	11	40
R40-16E2	40	16	41.6	34.299	7.144	1.6x2	100.2	5220	13810	81	73	238	128	18	106	49	42	11	17.5	11	40
R40-16D1	40	16	41.6	34.299	7.144	2.6x1	82.2	4370	11220	81	72	206	128	18	106	49	42	11	17.5	11	40
R40-16D2	40	16	41.6	34.299	7.144	2.6x2	152.3	7930	22450	81	72	297	128	18	106	49	42	11	17.5	11	40
R40-16P1	40	16	41.6	34.299	7.144	3.6x1	112.2	5780	15540	81	73	238	128	18	106	49	42	11	17.5	11	40
R40-20E2	40	20	41.6	34.299	7.144	1.6x2	98	5190	13750	82	74	252	128	18	106	52	42	11	17.5	11	40
R40-20D1	40	20	41.6	34.299	7.144	2.6x1	80.4	4340	11170	82	74	212	128	18	106	52	42	11	17.5	11	40
R40-20D2	40	20	41.6	34.299	7.144	2.6x2	155.8	7890	22350	82	74	329	128	18	106	52	42	11	17.5	11	40
R40-20P1	40	20	41.6	34.299	7.144	3.6x1	109.7	5750	15470	82	74	249	128	18	106	52	42	11	17.5	11	40
R40-25E1	40	25	41.6	34.299	7.144	1.6x1	50.2	2840	6830	83	73	198	128	18	106	51	43	11	17.5	11	40
R40-25D1	40	25	41.6	34.299	7.144	2.6x1	79.8	4310	11100	83	73	248	128	18	106	51	43	11	17.5	11	40
R45-5D2	45	5	45.6	42.324	3.175	2.6x2	134.7	2780	11610	72	68	124	108	16	90	45	37	9	14	8.5	30
R45-8D2	45	8	46	41.132	4.763	2.6x2	160	4880	17180	80	75	161	116	16	98	50	39	9	14	8.5	30
R45-10D1	45	10	46.4	39.91	6.35	2.6x1	88.1	4020	11540	84	77	141	132	18	110	53	44	11	17.5	11	30
R45-10D2	45	10	46.4	39.91	6.35	2.6x2	171.1	7300	23090	84	77	201	132	18	110	53	44	11	17.5	11	30
R45-12E2	45	12	46.4	39.91	6.35	1.6x2	99.5	4800	14190	85	78	165	132	18	110	53	43	11	17.5	11	30
R45-16E2	45	16	46.4	39.91	6.35	1.6x2	109.7	4780	14160	84	78	205	132	18	110	53	43	11	17.5	11	30
R45-20D2	45	20	46.4	39.91	6.35	2.6x2	175	7230	22930	84	78	329	132	18	110	53	44	11	17.5	11	30
R45-20P1	45	20	46.4	39.91	6.35	3.6x1	123.2	5270	15870	84	78	247	132	18	110	53	44	11	17.5	11	30
R45-12D2	45	12	46.6	39.299	7.144	2.6x2	171.9	8390	25230	87	80	231	132	18	110	55	45	11	17.5	11	40
R45-25E1	45	25	46.6	39.299	7.144	1.6x1	56.3	3000	7670	90	82	198	132	18	110	58	47	11	17.5	11	40
R45-25D1	45	25	46.6	39.299	7.144	2.6x1	89.5	4550	12470	90	82	248	132	18	110	58	47	11	17.5	11	40
R45-25P1	45	25	46.6	39.299	7.144	3.6x1	122.2	6030	17270	90	82	298	132	18	110	58	47	11	17.5	11	40
R45-12D2	45	12	46.8	38.688	7.938	2.6x2	171.9	9620	27850	92	84	239	142	22	117	58	47	13	20	13	40
R45-20D2	45	20	46.8	38.688	7.938	2.6x2	175	9550	27690	91	80	343	142	22	117	55	47	13	20	13	40
R45-25D1	45	25	46.8	38.688	7.938	2.6x1	89.5	5220	13770	93	81	257	142	22	117	55	48	13	20	13	40
R50-8D2	50	8	51	46.132	4.763	2.6x2	170.2	5070	18980	83	80	173	128	18	107	55	41	11	17.5	11	30
R50-8D3	50	8	51	46.132	4.763	2.6x3	250.9	7180	28470	83	80	221	128	18	107	55	41	11	17.5	11	30
R50-12D1	50	12	51	46.132	4.763	2.6x1	90.6	2780	9470	85	82	139	128	18	107	57	43	11	17.5	11	30
R50-10D2	50	10	51.4	44.91	6.35	2.6x2	181.7	7550	25240	90	85	201	135	18	114	57	47	11	17.5	11	30
R50-20D2	50	20	51.4	44.91	6.35	2.6x2	187	7490	25100	90	83	329	135	18	114	55	46	11	17.5	11	30
R50-25D2	50	25	51.6	44.299	7.144	2.6x2	188.1	8670	27680	95	90	399	140	18	118	64	47	11	17.5	11	30
R50-12D1	50	12	51.8	43.688	7.938	2.6x1	90.6	5590	15580	96	90	167	150	22	125	62	50	13	20	13	40
R50-12D2	50	12	51.8	43.688	7.938	2.6x2	188.6	10150	31170	96	90	239	150	22	125	62	50	13	20	13	40
R50-16E2	50	16	51.8	43.688	7.938	1.6x2	120.1	6670	19140	96	89	217	150	22	125	61	50	13	20	13	40
R50-16D2	50	16	51.8	43.688	7.938	2.6x2	191.1	10120	31100	97	88	304	150	22	125	61	50	13	20	13	40
R50-16P2	50	16	51.8	43.688	7.938	3.6x2	260.7	13390	43070	96	89	368	150	22	125	61	50	13	20	13	40
R50-20E2	50	20	51.8	43.688	7.938	1.6x2	120.8	6640	19090	98	91	262	150	22	125	63	50	13	20	13	40
R50-20D2	50	20	51.8	43.688	7.938	2.6x2	187	10090	31020	97	89	333	150	22	125	62	50	13	20	13	40
R50-20P1	50	20	51.8	43.688	7.938	3.6x1	135.2	7350	21470	98	91	258	150	22	125	63	50	13	20	13	40
R50-25D2	50	25	51.8	43.688	7.938	2.6x2	188.1	10030	30890	99	88	376	150	22	125	60	49	13	20	13	40
R50-20D2	50	20	52.2	42.466	9.525	2.6x2	187	13500	37530	99	93	345	152	28	128	67	51	13	20	13	60

Precision Ground Ball Screw Series

ST — FDT type standart product



Re-circulation plate below the nut body

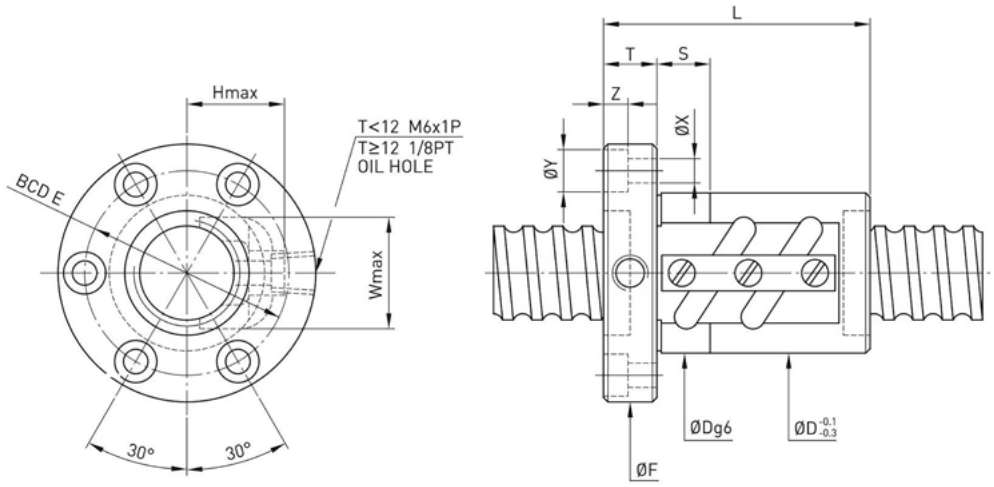


Re-circulation plate above the nut body

Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	D_{min}	L	F	T	BCD-E	W	H	X	Y	Z	S
R55-10D2	55	10	56.46	49.97	6.35	2.6x2	191.7	7790	27390	95	92	200	144	18	122	62	48	11	17.5	11	40
R55-20D2	55	20	56.6	49.299	7.144	2.6x2	208.2	9330	31780	96	93	333	144	18	122	64	49	11	17.5	11	40
R55-24E1	55	24	56.6	49.299	7.144	1.6x1	67.8	3370	9750	99	93	198	144	18	122	64	50	11	17.5	11	40
R55-24E2	55	24	56.6	49.299	7.144	1.6x2	131.5	6120	19500	99	93	294	144	18	122	64	50	11	17.5	11	40
R55-24D2	55	24	56.6	49.299	7.144	2.6x2	209	9290	31690	99	93	389	144	18	122	64	50	11	17.5	11	40
R60-24E2	60	24	62.2	52.466	9.525	1.6x2	143.3	9285	27490	113	104	304	170	22	145	71	58	13	20	13	40
R60-32P1	60	32	62.2	52.466	9.525	3.6x1	162.9	10731	30750	114	105	382	170	22	145	72	57	13	20	13	40
R63-8D2	63	8	64	59.132	4.763	2.6x2	202.2	5610	24340	102	98	201	146	18	124	66	49	11	17.5	11	40
R63-10D2	63	10	64.4	57.91	6.35	2.6x2	212.2	8270	31630	107	103	214	152	20	130	71	52	11	17.5	11	40
R63-10D3	63	10	64.4	57.91	6.35	2.6x3	312.9	11720	47440	107	103	274	152	20	130	71	52	11	17.5	11	40
R63-12D2	63	12	64.8	56.688	7.938	2.6x2	222.5	11270	39470	110	106	252	166	22	141	71	57	13	20	13	40
R63-32D1	63	32	64.8	56.688	7.938	2.6x1	118.7	6120	19530	113	107	313	166	22	141	76	55	13	20	13	40
R63-16D2	63	16	65.2	55.466	9.525	2.6x2	236.3	14861	47240	122	114	307	172	22	147	82	60	13	20	13	40
R63-20D2	63	20	65.2	55.466	9.525	2.6x2	238.1	14861	47160	118	111	366	172	22	147	77	60	13	20	13	40
R63-25D2	63	25	65.2	55.466	9.525	2.6x2	239.5	14861	47040	118	110	410	172	22	147	76	59	13	20	13	40
R63-32E2	63	32	65.2	55.466	9.525	1.6x2	149.9	9629	28810	115	107	382	172	22	147	73	58	13	20	13	40
R70-32D1	70	32	71.8	63.688	7.938	2.6x1	130.6	6470	22020	125	119	318	178	22	152	85	62	13	20	13	40
R80-16D2	80	16	82.2	72.466	9.525	2.6x2	284.2	16483	61530	142	136	310	210	28	174	97	68	18	26	17.5	50
R80-16D3	80	16	82.2	72.466	9.525	2.6x3	419	23361	92300	142	136	406	210	28	174	97	68	18	26	17.5	50
R80-24D2	80	24	82.2	72.466	9.525	2.6x2	289.5	16483	61380	134	130	411	210	28	174	86	67	18	26	17.5	50
R80-32D2	80	32	82.2	72.466	9.525	2.6x2	293.2	16483	61180	142	137	516	210	28	174	98	68	18	26	17.5	50

Precision Ground Ball Screw Series

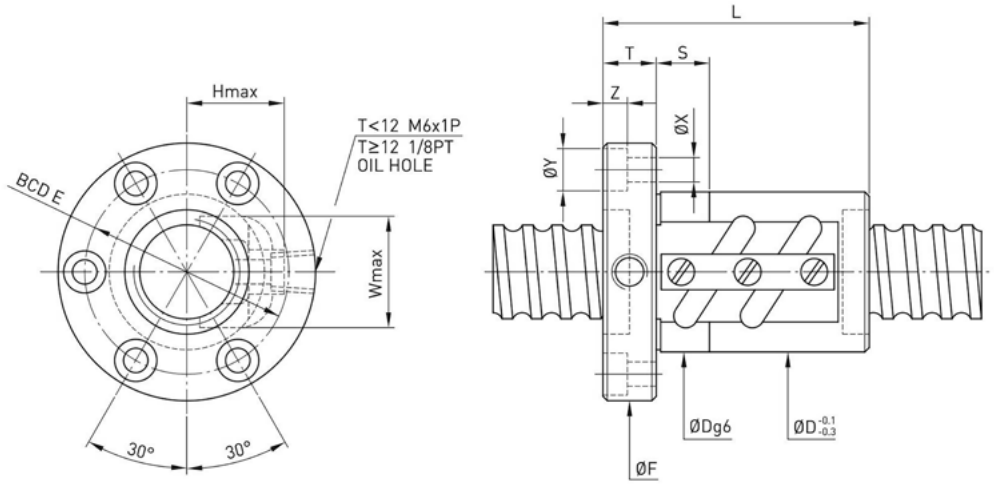
ST — FSV type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut		Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	W	H	X	Y	Z	S
16-4D2	16	4	16.25	13.792	2.381	2.5x2	26	802	1722	30	48	52	10	40	23	21	5.5	9.5	5.5	12
16-5D1	16	5	16.6	13.324	3.175	2.5x1	16	763	1400	31	45	54	12	41	27	22	5.5	9.5	5.5	12
16-5D2	16	5	16.6	13.324	3.175	2.5x2	33	1385	2799	31	60	54	12	41	27	22	5.5	9.5	5.5	12
16-5P1	16	5	16.6	13.324	3.175	3.5x1	22	1013	1946	31	50	54	12	41	27	22	5.5	9.5	5.5	12
16-10D1	16	10	16.6	13.324	3.175	2.5x1	16	763	1399	30	54	53	10	41	22.5	23	5.5	9.5	5.5	12
20-5D1	20	5	20.6	17.324	3.175	2.5x1	19	837	1733	35	45	58	12	46	27	25	5.5	9.5	5.5	12
20-5D2	20	5	20.6	17.324	3.175	2.5x2	39	1519	3465	35	60	58	12	46	27	25	5.5	9.5	5.5	12
20-6D1	20	6	20.8	16.744	3.969	2.5x1	20	1139	2187	36	48	60	12	47	28	27	5.5	9.5	5.5	12
20-6P1	20	6	20.8	16.744	3.969	3.5x1	28	1512	3041	36	66	60	12	47	28	27	5.5	9.5	5.5	12
20-20E1	20	20	20.8	16.744	3.969	1.5x1	13	719	1281	36	66	60	12	47	28	27	5.5	9.5	5.5	12
25-5D2	25	5	25.6	22.324	3.175	2.5x2	46	1704	4417	40	60	64	12	52	31	26	5.5	9.5	5.5	12
25-5P1	25	5	25.6	22.324	3.175	3.5x1	35	1252	3085	40	50	64	12	52	31	26	5.5	9.5	5.5	12
25-6D2	25	6	25.8	21.744	3.969	2.5x2	48	2308	5523	42	68	68	12	55	32	28	6.6	11	6.5	12
25-6C1	25	6	25.8	21.744	3.969	3.5x1	35	1690	3844	42	55	68	12	55	32	28	6.6	11	6.5	12
25-8D2	25	8	26	21.132	4.763	2.5x2	46	2888	6472	50	80	74	13	62	35	31	5.5	9.5	5.5	15
25-10D1	25	10	26	21.132	4.763	2.5x1	25	1592	3237	45	65	72	16	58	34	29	6.6	11	6.5	12
25-10D2	25	10	26	21.132	4.763	2.5x2	46	2888	6472	47	97	74	15	60	35	31	6.6	11	6.5	15
25-16D1	25	16	26	21.132	4.763	2.5x1	28	1592	3237	45	84	72	16	58	34	29	6.6	11	6.5	12
25-20D1	25	20	26	21.132	4.763	2.5x1	28	1592	3237	45	96	72	16	58	34	29	6.6	11	6.5	12
25-25E1	25	25	26	21.132	4.763	1.5x1	16	1019	1927	45	90	72	16	58	34	29	6.6	11	6.5	12
28-5D1	28	5	28.6	25.324	3.175	2.5x1	26	984	2466	44	45	70	12	56	34	28	6.6	11	6.5	12
28-5D2	28	5	28.6	25.324	3.175	2.5x2	50	1785	4932	44	60	70	12	56	34	28	6.6	11	6.5	12
28-6E2	28	6	28.6	25.324	3.175	1.5x2	29	1150	2960	44	55	70	12	56	34	28	6.6	11	6.5	12
28-6D2	28	6	28.6	25.324	3.175	2.5x2	48	1784	4932	50	61	74	12	60	36	29	6.6	11	6.5	15
32-5D2	32	5	32.6	29.324	3.175	2.5x2	55	1886	5666	50	60	76	12	63	38	30	6.6	11	6.5	12
32-5P1	32	5	32.6	29.324	3.175	3.5x1	39	1388	3967	50	50	76	12	63	38	30	6.6	11	6.5	12
32-6D2	32	6	32.8	28.744	3.969	2.5x2	56	2556	7020	52	68	78	12	65	39	32	6.6	11	6.5	12
32-6P1	32	6	32.8	28.744	3.969	3.5x1	39	1888	4936	52	55	78	12	65	39	32	6.6	11	6.5	12
32-8D2	32	8	33	28.132	4.763	2.5x2	59	3284	8453	54	86	88	16	70	40	33	9	14	8.5	15
32-8P1	32	8	33	28.132	4.763	3.5x1	41	2428	5948	54	70	88	16	70	40	33	9	14	8.5	15
32-10D1	32	10	33.4	26.91	6.350	2.5x1	30	2650	5599	54	70	88	16	70	44	37	9	14	8.5	15
32-10D2	32	10	33.4	26.91	6.350	2.5x2	60	4810	11199	57	98	91	16	73	44	37	9	14	8.5	15
32-10P1	32	10	33.4	26.91	6.350	3.5x1	44	3519	7785	57	78	91	16	73	44	37	9	14	8.5	15
32-16D1	32	16	33.4	26.91	6.350	2.5x1	30	2650	5599	54	100	88	16	70	45	38	9	14	8.5	15
32-20D1	32	20	33	28.132	4.763	2.5x1	33	1810	4227	54	100	88	16	70	40	33	9	14	8.5	15
32-25D1	32	25	33	28.132	4.763	2.5x1	33	1810	4227	54	118	88	16	70	40	33	9	14	8.5	15
32-32E1	32	32	33	28.132	4.763	1.5x1	18	1154	2505	54	110	88	16	70	40	33	9	14	8.5	15
36-6D1	36	6	36.8	32.744	3.969	2.5x1	35	1486	3969	55	50	82	12	68	42	32	6.6	11	6.5	12
36-6D2	36	6	36.8	32.744	3.969	2.5x2	60	2696	7937	55	68	82	12	68	42	32	6.6	11	6.5	12

Precision Ground Ball Screw Series

ST — FSV type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut		Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	W	H	X	Y	Z	S
36-10D2	36	10	37.4	30.91	6.350	2.5x2	68	5105	12669	62	102	104	18	82	49	40	11	17.5	11	15
40-5D2	40	5	40.6	37.324	3.175	2.5x2	66	2071	7134	58	65	92	16	72	46	34	9	14	8.5	15
40-6D2	40	6	40.8	36.744	3.969	2.5x2	69	2817	8855	60	72	94	16	76	47	36	9	14	8.5	15
40-8D2	40	8	41	36.132	4.763	2.5x2	70	3634	10603	62	86	96	16	78	48	38	9	14	8.5	15
40-8P1	40	8	41	36.132	4.763	3.5x1	49	2679	7438	62	70	96	16	78	48	38	9	14	8.5	15
40-10D2	40	10	41.4	34.91	6.350	2.5x2	74	5370	14138	65	102	106	18	85	52	42	11	17.5	11	15
40-10P1	40	10	41.4	34.91	6.350	3.5x1	51	3932	9841	65	82	106	18	85	52	42	11	17.5	11	15
40-12D2	40	12	41.6	34.299	7.144	2.5x2	72	6216	15674	64	108	112	18	88	53	42	11	17.5	11	30
40-16D2	40	16	41.6	34.299	7.144	2.5x2	72	6216	15674	74	135	110	18	90	52	49	11	17.5	11	30
40-25D1	40	25	41.4	34.91	6.350	2.5x1	39	2959	7069	65	123	106	18	85	52	42	11	17.5	11	15
40-32D1	40	32	41.4	34.91	6.350	2.5x1	39	2959	7069	65	146	106	18	85	52	42	11	17.5	11	15
40-40E1	40	40	41.4	34.91	6.350	1.5x1	24	1875	4159	65	133	106	18	85	52	42	11	17.5	11	15
45-10D1	45	10	46.4	39.91	6.350	2.5x1	45	4170	11161	70	74	112	18	90	58	48	11	17.5	11	15
45-10D2	45	10	46.4	39.91	6.350	2.5x2	79	5655	15905	70	104	112	18	90	58	48	11	17.5	11	15
45-12D2	45	12	46.8	38.688	7.938	2.5x2	81	7627	19799	74	123	122	22	97	60	49	13	20	13	20
50-5E2	50	5	50.6	47.324	3.175	1.5x2	48	1447	5382	70	63	104	16	86	56	40	9	14	8.5	15
50-5E3	50	5	50.6	47.324	3.175	1.5x3	73	2051	8072	70	73	104	16	86	56	40	9	14	8.5	15
50-6D2	50	6	50.8	46.744	3.969	2.5x2	81	3093	11149	72	75	106	16	88	57	43	9	14	8.5	15
50-6D3	50	6	50.8	46.744	3.969	2.5x3	119	4384	16723	72	93	106	16	88	57	43	9	14	8.5	15
50-8D2	50	8	51	46.132	4.763	2.5x2	84	4004	13409	75	88	116	18	95	58	45	11	17.5	11	15
50-8D3	50	8	51	46.132	4.763	2.5x3	124	5674	20114	75	112	116	18	95	58	45	11	17.5	11	15
50-10D2	50	10	51.4	44.91	6.350	2.5x2	87	5923	17670	78	104	119	18	98	62	48	11	17.5	11	15
50-10D3	50	10	51.4	44.91	6.350	2.5x3	129	8394	26505	78	134	119	18	98	62	48	11	17.5	11	15
50-10P1	50	10	51.4	44.91	6.350	3.5x1	60	4393	12481	78	84	119	18	98	62	48	11	17.5	11	15
50-12D1	50	12	51.8	43.688	7.938	2.5x1	46	4420	11047	82	87	130	22	105	64	52	13	20	13	20
50-12D2	50	12	51.8	43.688	7.938	2.5x2	90	8022	22094	82	123	130	22	105	64	52	13	20	13	20
50-12P1	50	12	51.8	43.688	7.938	3.5x1	63	5875	15380	82	99	130	22	105	64	52	13	20	13	20
50-40E1	50	40	51.8	43.688	7.938	1.5x1	27	2801	6499	82	135	130	22	105	64	52	13	20	13	20
50-50E1	50	50	51.8	43.688	7.938	1.5x1	30	2801	6499	82	162	130	22	105	64	52	13	20	13	20
55-10P1	55	10	56.4	49.91	6.350	3.5x1	66	4562	13661	84	84	125	18	103	68	54	11	17.5	11	20
55-12D2	55	12	56.8	48.688	7.938	2.5x2	95	8392	24390	88	123	136	22	110	70	56	13	20	13	20
55-20D2	55	20	58	45.16	12.700	2.5x2	127	20160	52439	100	175	132	28	115	74	71	9	14	8.5	30
63-8E2	63	8	64	59.132	4.763	1.5x2	54	2826	10129	87	76	129	18	107	70	50	11	17.5	11	20
63-8E3	63	8	64	59.132	4.763	1.5x3	80	4004	15193	87	92	129	18	107	70	50	11	17.5	11	20
63-10D2	63	10	64.4	57.91	6.350	2.5x2	104	6533	22371	90	107	132	20	110	74	53	11	17.5	11	20
63-10D3	63	10	64.4	57.91	6.350	2.5x3	154	9258	33556	90	137	132	20	110	74	53	11	17.5	11	20
63-12D2	63	12	64.8	56.688	7.938	2.5x2	109	8943	28062	94	124	142	22	117	76	57	13	20	13	20
63-16D2	63	16	65.2	55.466	9.525	2.5x2	141	14862	46009	100	153	150	22	123	78	62	13	20	13	20
63-20D2	63	20	65.2	55.466	9.525	2.5x2	141	14862	46009	100	176	150	22	123	78	62	13	20	13	20

Precision Ground Ball Screw Series

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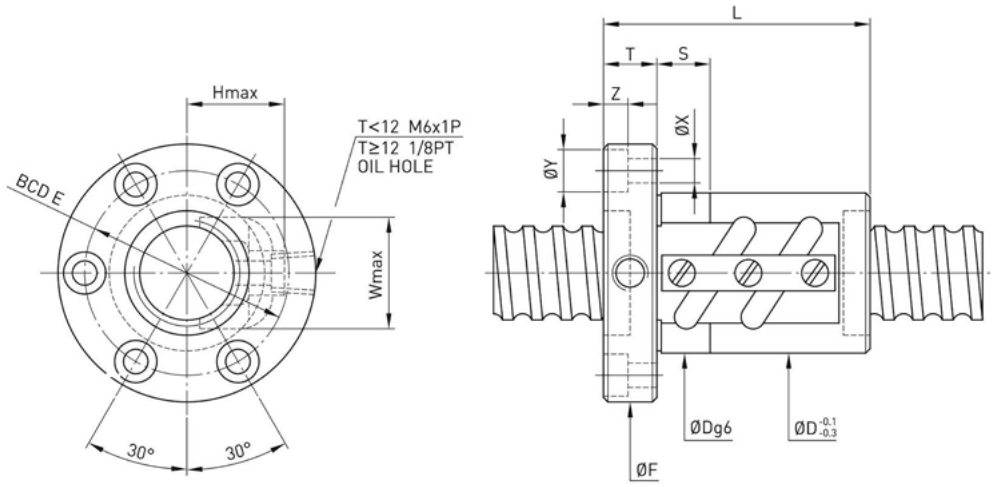

Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	W	H	X	Y	Z	S
63-20D3	63	20	66	53.16	12.700	2.5x3	210	30715	90887	117	244	157	32	137	82	70	11	17.5	11	30
70-10D2	70	10	71.4	64.91	6.350	2.5x2	115	6843	25011	104	109	152	20	128	80	56	13	20	13	20
70-10D3	70	10	71.4	64.91	6.350	2.5x3	170	9688	37516	104	139	152	20	128	80	56	13	20	13	20
70-12D2	70	12	71.8	63.688	7.938	2.5x2	120	9382	31275	110	125	159	22	133	82	58	13	20	13	20
70-12D3	70	12	71.8	63.688	7.938	2.5x3	170	13296	46912	110	159	159	22	133	82	58	13	20	13	20
80-10D2	80	10	81.4	74.91	6.350	2.5x2	126	7202	28538	115	109	163	22	137	90	64	13	20	13	20
80-10D3	80	10	81.4	74.91	6.350	2.5x3	186	10207	42807	115	139	163	22	137	90	64	13	20	13	20
80-12D2	80	12	81.8	73.688	7.938	2.5x2	130	9797	35422	120	125	169	22	143	92	67	13	20	13	25
80-12D3	80	12	81.8	73.688	7.938	2.5x3	192	13884	53132	120	159	169	22	143	92	67	13	20	13	25
80-16D2	80	16	82.2	72.466	9.525	2.5x2	171	16485	58851	125	156	190	28	154	94	70	18	26	17.5	25
80-16D3	80	16	82.2	72.466	9.525	2.5x3	252	23363	88276	125	204	190	28	154	94	70	18	26	17.5	25
80-20D2	80	20	82.2	72.466	9.525	2.5x2	171	16485	58851	125	185	190	28	154	94	70	18	26	17.5	25
80-20D3	80	20	82.2	72.466	9.525	2.5x3	252	23363	88276	125	245	190	28	154	94	70	18	26	17.5	25
100-12D2	100	12	101.8	93.688	7.938	2.5x2	156	10761	44586	145	132	209	28	173	112	76	18	26	17.5	25
100-12D3	100	12	101.8	93.688	7.938	2.5x3	229	15251	66894	145	168	209	28	173	112	76	18	26	17.5	25
100-16D2	100	16	102.2	92.466	9.525	2.5x2	200	18123	74425	150	162	228	32	185	114	80	22	32	21.5	30
100-16D3	100	16	102.2	92.466	9.525	2.5x3	305	25684	111637	150	212	228	32	185	114	80	22	32	21.5	30
100-20D2	100	20	102.2	92.466	9.525	2.5x2	200	18123	74425	150	190	228	32	185	114	80	22	32	21.5	30
100-20D3	100	20	102.2	92.466	9.525	2.5x3	305	25684	111637	150	250	228	32	185	114	80	22	32	21.5	30

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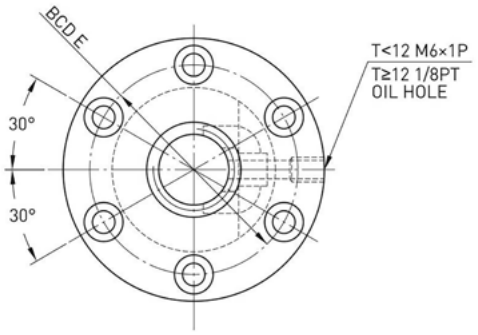
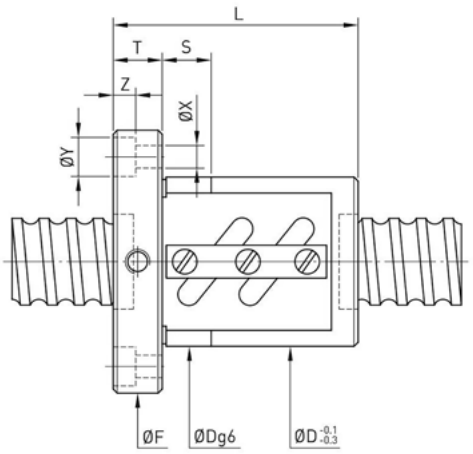
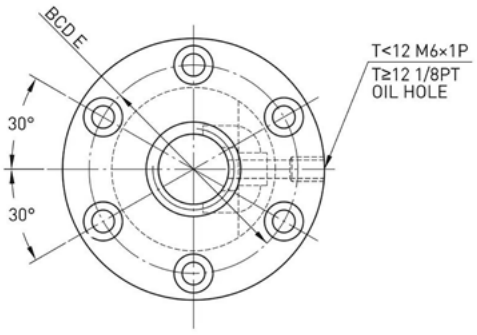


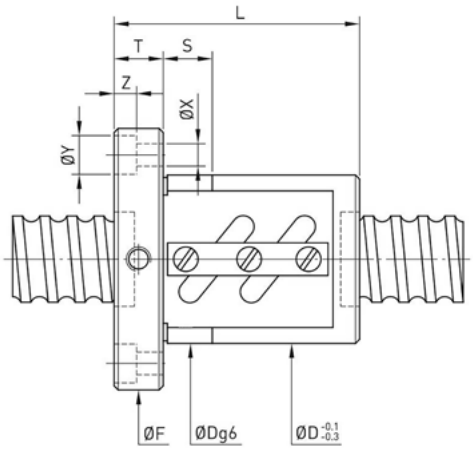


Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S
12-4D1	12	4	12.25	9.792	2.381	2.5x1	8	383	638	30	38	50	10	40	4.5	8	4	12
12-4E1	12	4	12.25	9.792	2.381	3.5x1	9	511	893	30	44	50	10	40	4.5	8	4	12
12-5D1	12	5	12.25	9.792	2.381	2.5x1	8	383	638	30	40	50	10	40	4.5	8	4	12
14-5D1	14	5	14.6	11.324	3.175	2.5x1	10	710	1216	34	40	57	11	45	5.5	9.5	5.5	12
15-10E1	15	10	15.6	12.324	3.175	1.5x1	9	474	781	34	48	57	11	45	5.5	9.5	5.5	12
15-20E1	15	20	15.6	12.324	3.175	1.5x1	9	474	781	34	62	58	12	45	5.5	9.5	5.5	12
16-4D1	16	4	16.25	13.792	2.381	2.5x1	14	439	870	34	38	57	11	45	5.5	9.5	5.5	12
16-5D1	16	5	16.6	13.324	3.175	2.5x1	16	763	1400	40	45	64	12	51	5.5	9.5	5.5	12
16-5D2	16	5	16.6	13.324	3.175	2.5x2	33	1385	2799	40	60	64	12	51	5.5	9.5	5.5	12
16-5E1	16	5	16.6	13.324	3.175	3.5x1	22	1013	1946	40	50	64	12	51	5.5	9.5	5.5	12
20-5D1	20	5	20.6	17.324	3.175	2.5x1	19	837	1733	44	45	68	12	55	5.5	9.5	5.5	12
20-5D2	20	5	20.6	17.324	3.175	2.5x2	39	1519	3465	44	60	68	12	55	5.5	9.5	5.5	12
20-6D1	20	6	20.8	16.744	3.969	2.5x1	20	1137	2187	48	48	72	12	59	5.5	9.5	5.5	12
20-6P1	20	6	20.8	16.744	3.969	3.5x1	28	1512	3041	48	66	72	12	59	5.5	9.5	5.5	12
25-4D2	25	4	25.25	22.792	2.381	2.5x2	38	976	2776	46	48	69	11	57	5.5	9.5	5.5	12
25-5D2	25	5	25.6	22.324	3.175	2.5x2	46	1704	4417	50	60	74	12	62	5.5	9.5	5.5	12
25-5P1	25	5	25.6	22.324	3.175	3.5x1	35	1252	3085	50	50	74	12	62	5.5	9.5	5.5	12
25-6D1	25	6	25.8	21.744	3.969	2.5x1	24	1255	2735	53	44	76	11	64	5.5	9.5	5.5	12
25-6D2	25	6	25.8	21.744	3.969	2.5x2	48	2308	5523	56	68	82	12	69	6.6	11	6.5	12
25-6P1	25	6	25.8	21.744	3.969	3.5x1	35	1690	3844	56	55	82	12	69	6.6	11	6.5	12
25-10D1	25	10	26	21.132	4.763	2.5x1	25	1592	3237	60	65	86	16	73	6.6	11	6.5	12
25-10D2	25	10	26	21.132	4.763	2.5x2	46	2888	6472	58	97	85	15	71	6.6	11	6.5	12
25-12D1	25	12	25.8	21.744	3.969	2.5x1	24	1271	2761	53	60	78	11	64	6.6	11	6.5	12
28-5D1	28	5	28.6	25.324	3.175	2.5x1	26	984	2466	55	45	85	12	69	6.6	11	6.5	12
28-5D2	28	5	28.6	25.324	3.175	2.5x2	50	1785	4932	55	60	85	12	69	6.6	11	6.5	12
28-6E2	28	6	28.6	25.324	3.175	1.5x2	29	1150	2960	55	55	85	12	69	6.6	11	6.5	12
28-12D2	28	12	29	24.132	4.763	2.5x2	51	3060	7299	60	110	86	12	73	6.6	11	6.5	12
28-16D1	28	16	29	24.132	4.763	2.5x1	25	1686	3649	62	84	89	12	75	6.6	11	6.5	12
32-5B2	32	5	32.6	29.324	3.175	2.5x2	55	1886	5666	58	60	84	12	71	6.6	11	6.5	12
32-5C1	32	5	32.6	29.324	3.175	3.5x1	39	1388	3967	58	50	84	12	71	6.6	11	6.5	12
32-6D2	32	6	32.8	28.744	3.969	2.5x2	56	2556	7020	62	68	88	12	75	6.6	11	6.5	12
32-6P1	32	6	32.8	28.744	3.969	3.5x1	39	1888	4936	62	55	88	12	75	6.6	11	6.5	12
32-8D2	32	8	33	28.132	4.763	2.5x2	59	3284	8453	66	86	100	16	82	9	14	8.5	15
32-8P1	32	8	33	28.132	4.763	3.5x1	41	2428	5948	66	70	100	16	82	9	14	8.5	15
32-10D2	32	10	33.4	26.91	6.350	2.5x2	60	4810	11199	74	98	108	16	90	9	14	8.5	15
32-10P1	32	10	33.4	26.91	6.350	3.5x1	44	3519	7785	74	78	108	16	90	9	14	8.5	15
32-12E2	32	12	33.4	26.91	6.350	1.5x2	37	3051	6612	74	97	108	18	90	9	14	8.5	15
32-12D2	32	12	33.4	26.91	6.350	2.5x2	59	4810	11199	74	110	108	18	90	9	14	8.5	15

Precision Ground Ball Screw Series

ST — FSW type standart product

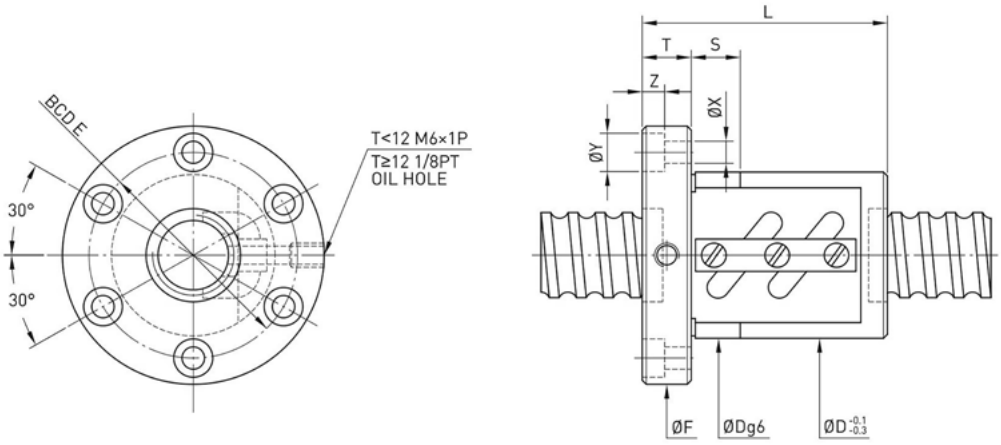




Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S
32-16E2	32	16	33.4	26.91	6.350	1.5x2	36	3035	6555	74	99	108	16	90	9	14	8.5	15
32-16D1	32	16	33.4	26.91	6.350	2.5x1	30	2650	5599	74	94	108	16	90	9	14	8.5	15
32-16D2	32	16	33.4	26.91	6.350	2.5x2	59	4810	11199	74	130	108	16	90	9	14	8.5	15
32-20E2	32	20	33.4	26.91	6.350	1.5x2	37	3035	6555	74	120	108	16	90	9	14	8.5	15
32-20D1	32	20	33.4	26.91	6.350	2.5x1	30	2650	5599	74	98	108	16	90	9	14	8.5	15
36-6D1	36	6	36.8	32.744	3.969	2.5x1	35	1486	3969	65	50	100	12	82	6.6	11	6.5	12
36-6E2	36	6	36.8	32.744	3.969	2.5x2	60	2696	7937	65	68	100	12	82	6.6	11	6.5	12
36-10D2	36	10	37.4	30.91	6.350	2.5x2	68	5105	12669	75	102	125	18	98	11	17.5	11	15
36-12D2	36	12	37.4	30.91	6.350	2.5x2	65	5105	12668	75	110	125	18	98	11	17.5	11	15
36-16P1	36	16	37.4	30.91	6.350	3.5x1	46	3736	8813	80	105	120	18	100	11	17.5	11	15
40-5D2	40	5	40.6	37.324	3.175	2.5x2	66	2071	7134	68	65	102	16	84	9	14	8.5	15
40-6D2	40	6	40.8	36.744	3.969	2.5x2	69	2817	8855	70	72	104	16	86	9	14	8.5	15
40-8D2	40	8	41	36.132	4.763	2.5x2	70	3634	10603	74	86	108	16	90	9	14	8.5	15
40-8P1	40	8	41	36.132	4.763	3.5x1	49	2679	7438	74	70	108	16	90	9	14	8.5	15
40-10D2	40	10	41.4	34.91	6.350	2.5x2	74	5370	14138	84	102	125	18	104	11	17.5	11	15
40-10P1	40	10	41.4	34.91	6.350	3.5x1	51	3932	9841	84	82	125	18	104	11	17.5	11	15
40-12D1	40	12	41.6	34.299	7.144	2.5x1	36	3425	7837	86	81	128	18	106	11	17.5	11	20
40-12D2	40	12	41.6	34.299	7.144	2.5x2	72	6217	15674	86	117	128	18	106	11	17.5	11	20
40-16E2	40	16	41.6	34.299	7.144	1.5x2	42	4007	9405	86	118	128	18	106	11	17.5	11	20
40-16D1	40	16	41.6	34.299	7.144	2.5x1	37	3425	7837	86	102	128	18	106	11	17.5	11	20
45-10D1	45	10	46.4	39.91	6.350	2.5x1	45	3116	7953	88	74	132	18	110	11	17.5	11	15
45-10D2	45	10	46.4	39.91	6.350	2.5x2	79	5655	15905	88	104	132	18	110	11	17.5	11	15
45-12D2	45	12	46.8	38.688	7.938	2.5x2	81	7627	19799	96	123	142	22	117	13	20	13	20
50-5E2	50	5	50.6	47.324	3.175	1.5x2	48	1447	5382	80	63	114	16	96	9	14	8.5	15
50-5E3	50	5	50.6	47.324	3.175	1.5x3	73	2051	8072	80	73	114	16	96	9	14	8.5	15
50-6D2	50	6	50.8	46.744	3.969	2.5x2	81	3093	11149	84	75	118	16	100	9	14	8.5	15
50-6P2	50	6	50.8	46.744	3.969	3.5x2	109	4131	15608	84	80	118	15	100	9	14	8.5	15
50-6D3	50	6	50.8	46.744	3.969	2.5x3	119	4384	16723	84	93	118	16	100	9	14	8.5	15
50-8D2	50	8	51	46.132	4.763	2.5x2	84	4004	13409	87	88	128	18	107	11	17.5	11	15
50-8D3	50	8	51	46.132	4.763	2.5x3	124	5674	20114	87	112	128	18	107	11	17.5	11	15
50-10D2	50	10	51.4	44.91	6.350	2.5x2	87	5923	17670	94	104	135	18	114	11	17.5	11	15
50-10D3	50	10	51.4	44.91	6.350	2.5x3	129	8394	26505	94	134	135	18	114	11	17.5	11	15
50-10P1	50	10	51.4	44.91	6.350	3.5x1	60	4393	12481	94	84	135	18	114	11	17.5	11	15
50-12D1	50	12	51.8	43.688	7.938	2.5x1	46	4420	11047	102	87	150	22	125	13	20	13	20
50-12D2	50	12	51.8	43.688	7.938	2.5x2	90	8022	22094	102	123	150	22	125	13	20	13	20
50-12P1	50	12	51.8	43.688	7.938	3.5x1	63	5875	15380	102	99	150	22	125	13	20	13	20
50-30E2	50	30	51.4	44.91	6.350	1.5x2	52	3834	10658	94	160	135	18	114	11	17.5	11	15

Precision Ground Ball Screw Series

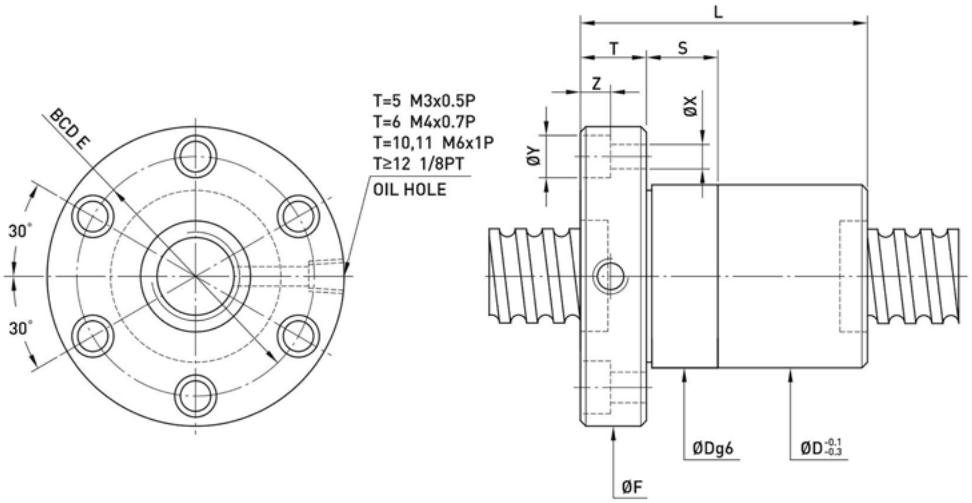
ST — FSW type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S
55-10D2	55	10	56.4	49.91	6.350	2.5x2	93	6071	19592	102	103	144	18	122	11	17.5	11	20
55-10P1	55	10	56.4	49.91	6.350	3.5x1	66	4562	13661	100	84	140	18	118	11	17.5	11	20
55-12D2	55	12	56.8	48.688	7.938	2.5x2	95	8392	24390	105	123	154	22	127	13	20	13	20
60-12D2	60	12	61.8	53.688	7.938	2.5x2	101	8742	26685	112	135	154	18	132	11	17.5	11	20
63-8E2	63	8	64	59.132	4.763	1.5x2	54	2826	10129	104	76	146	18	124	11	17.5	11	20
63-8E3	63	8	64	59.132	4.763	1.5x3	80	4004	15193	104	92	146	18	124	11	17.5	11	20
63-10D2	63	10	64.4	57.91	6.350	2.5x2	104	6533	22371	110	107	152	20	130	11	17.5	11	20
63-10D3	63	10	64.4	57.91	6.350	2.5x3	154	9528	33556	110	137	152	20	130	11	17.5	11	20
63-12D2	63	12	64.8	56.688	7.938	2.5x2	109	8943	28062	118	124	166	22	141	13	20	13	20
63-16D2	63	16	65.2	55.466	9.525	2.5x2	141	14862	46009	124	153	172	22	147	13	20	13	20
63-20D2	63	20	65.2	55.466	9.525	2.5x2	141	14862	46009	124	176	172	22	147	13	20	13	20
70-10D2	70	10	71.4	64.91	6.350	2.5x2	115	6843	25011	124	109	170	20	145	13	20	13	20
70-10D3	70	10	71.4	64.91	6.350	2.5x3	170	9698	37516	124	139	170	20	145	13	20	13	20
70-12D2	70	12	71.8	63.688	7.938	2.5x2	120	9382	31275	130	125	178	22	152	13	20	13	20
70-12D3	70	12	71.8	63.688	7.938	2.5x3	170	13296	46912	130	159	178	22	152	13	20	13	20
80-10D2	80	10	81.4	74.91	6.350	2.5x2	126	7202	28538	130	109	178	22	152	13	20	13	20
80-10D3	80	10	81.4	74.91	6.350	2.5x3	186	10207	42807	130	139	178	22	152	13	20	13	20
80-12D2	80	12	81.8	73.688	7.938	2.5x2	130	9797	35422	136	125	185	22	159	13	20	13	20
80-12D3	80	12	81.8	73.688	7.938	2.5x3	192	13844	53132	136	159	185	22	159	13	20	13	20
80-16D2	80	16	82.2	72.466	9.525	2.5x2	171	16485	58851	145	156	210	28	174	18	26	17.5	25
80-16D3	80	16	82.2	72.466	9.525	2.5x3	252	23363	88276	145	204	210	28	174	18	26	17.5	25
80-20D2	80	20	82.2	72.466	9.525	2.5x2	171	16485	58851	145	185	210	28	174	18	26	17.5	25
80-20D3	80	20	82.2	72.466	9.525	2.5x3	252	23363	88276	145	245	210	28	174	18	26	17.5	25
100-12D2	100	12	101.8	93.688	7.938	2.5x2	156	10761	44596	160	132	224	24	188	18	26	17.5	25
100-12D3	100	12	101.8	93.688	7.938	2.5x3	229	15251	66894	160	168	224	24	188	18	26	17.5	25
100-16D2	100	16	102.2	92.466	9.525	2.5x2	200	18123	77425	170	162	248	32	205	22	32	21.5	30
100-16D3	100	16	102.2	92.466	9.525	2.5x3	305	25684	111637	170	212	248	32	205	22	32	21.5	30
100-20D2	100	20	102.2	92.466	9.525	2.5x2	200	18123	74425	170	190	248	32	205	22	32	21.5	30
100-20D3	100	20	102.2	92.466	9.525	2.5x3	305	25684	111637	170	250	248	32	205	22	32	21.5	30

Precision Ground Ball Screw Series

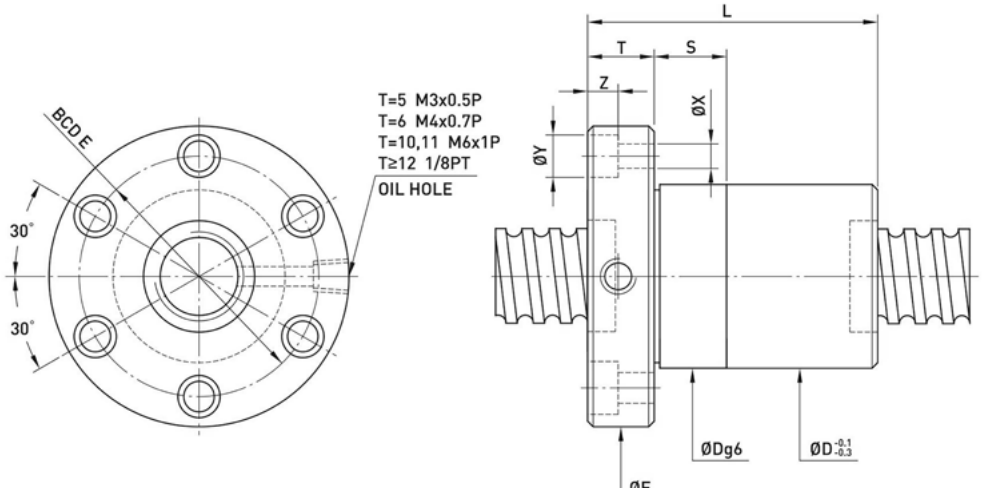
ST — FSI type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S
8-2.5K3	8	2.5	8.2	6.652	1.500	3	8	170	267	18	28	35	5	27	4.5	0	0	0
14-2.54K3	14	2.54	14.2	12.136	2.000	3	12	339	655	30	39	50	10.6	40	5	7	5	0
14-4K3	14	4	14.2	12.136	2.000	3	12	339	655	26	33	48	6	36	5.5	0	0	0
16-2K3	16	2	16.2	14.652	1.500	3	14	252	593	27	36	44	10	34	4.5	8	4.5	0
16-2.5K4	16	2.5	16.2	14.652	1.500	4	19	358	862	27	44	44	10	34	4.5	8	4.5	12
16-5K3	16	5	16.6	13.324	3.175	3	11	731	1331	30	46	54	12	41	5.5	9.5	5.5	12
16-5K4	16	5	16.6	13.324	3.175	4	12	936	1775	30	52	54	12	41	5.5	9.5	5.5	12
16-6K4	16	6	16.6	13.324	3.175	4	21	936	1775	32	58	54	12	42	5.5	9.5	5.5	12
20-2K6	20	2	20.2	18.652	1.500	6	32	518	1551	32	52	52	10	40	5.5	9.5	5.5	12
20-2K4	20	2	20.2	18.652	1.500	4	36	399	1112	32	40	52	10	40	5.5	9.5	5.5	12
20-2.5K5	20	2.5	20.2	18.136	2.000	5	28	637	1635	36	51	59	12	47	5.5	9.5	5.5	12
20-2.54K6	20	2.54	20.2	18.136	2.000	6	33	745	1962	36	55	59	12	47	5.5	9.5	5.5	12
20-4K3	20	4	20.25	17.792	2.381	3	17	509	1134	36	40	59	10	47	5.5	9.5	5.5	12
20-5K3	20	5	20.6	17.324	3.175	3	20	852	1767	34	46	57	12	45	5.5	9.5	5.5	12
20-5K4	20	5	20.6	17.324	3.175	4	27	1091	2356	34	53	57	12	45	5.5	9.5	5.5	12
20-6K3	20	6	20.8	16.744	3.969	3	20	1091	2081	36	51	60	12	48	5.5	9.5	5.5	12
20-6K4	20	6	20.8	16.744	3.969	4	27	1398	2774	36	61	60	12	48	5.5	9.5	5.5	12
20-10K3	20	10	20.8	16.744	3.969	3	20	1091	2080	35	64	57	12	45	5.5	9.5	5.5	12
25-2K6	25	2	25.2	23.652	1.500	6	39	560	1960	36	50	58	10	46	5.5	9.5	5.5	12
25-2K4	25	2	25.2	23.652	1.500	4	27	395	1307	36	40	58	10	46	5.5	9.5	5.5	12
25-2K3	25	2	25.2	23.652	1.500	3	20	309	980	36	35	58	10	46	5.5	9.5	5.5	12
25-2.5K5	25	2.5	25.2	23.136	2.000	5	34	716	2117	40	52	64	10	51	6.6	11	6.5	12
25-4K4	25	4	25.25	22.792	2.381	4	28	747	1989	40	53	64	12	51	5.5	9.5	5.5	12
25-5K3	25	5	25.6	22.324	3.175	3	28	977	2314	40	46	63	11	51	5.5	9.5	5.5	10
25-5K4	25	5	25.6	22.324	3.175	4	37	1252	3085	40	51	63	11	51	5.5	9.5	5.5	10
25-5K5	25	5	25.6	22.324	3.175	5	40	1516	3856	40	56	63	11	51	5.5	9.5	5.5	10
25-5K6	25	5	25.6	22.324	3.175	6	48	1773	4627	40	65	63	11	51	5.5	9.5	5.5	10
25-6K3	25	6	25.8	21.744	3.969	3	28	1272	2762	42	51	65	12	53	5.5	9.5	5.5	12
25-6K4	25	6	25.8	21.744	3.969	4	37	1628	3682	42	61	65	12	53	5.5	9.5	5.5	12
25-10K3	25	10	26	21.132	4.763	3	25	1591	3236	45	65	69	15	55	6.6	11	6.5	12
25-10K4	25	10	26	21.132	4.763	4	33	2038	4315	45	80	69	15	55	6.6	11	6.5	12

Precision Ground Ball Screw Series

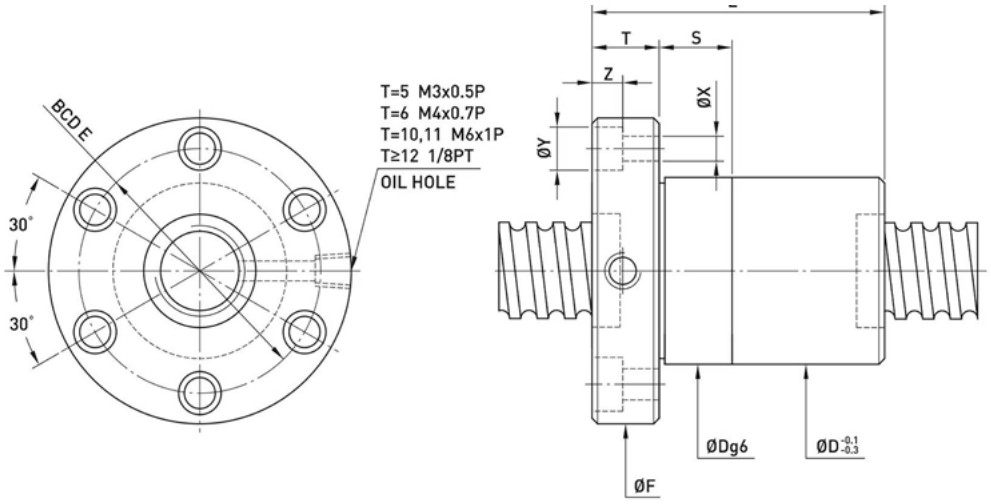
ST — FSI type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut			Flange			Bolt			Fit
	Nominal Dia.	Lead								D		L	F	T	BCD-E	X	Y	Z	S
32-5K3	32	5	32.6	29.324	3.175	3	33	1117	3081	44	48	46	74	12	60	6.6	11	6.5	12
32-5K4	32	5	32.6	29.324	3.175	4	42	1431	4108	44	48	53	74	12	60	6.6	11	6.5	12
32-5K6	32	5	32.6	29.324	3.175	6	63	2027	6162	44	48	66	74	12	60	6.6	11	6.5	12
32-6K3	32	6	32.8	28.744	3.969	3	33	1446	3620	45	50	51	76	12	62	6.6	11	6.5	12
32-6K4	32	6	32.8	28.744	3.969	4	43	1852	4826	45	50	61	76	12	62	6.6	11	6.5	12
32-6K6	32	6	32.8	28.744	3.969	6	65	2625	7239	45	50	75	76	12	62	6.6	11	6.5	12
32-8K3	32	8	33	28.132	4.763	3	35	1810	4227	47	52	63	78	16	64	6.6	11	6.5	12
32-8K4	32	8	33	28.132	4.763	4	47	2317	5635	47	52	74	78	16	64	6.6	11	6.5	12
32-10K3	32	10	33.4	26.91	6.350	3	35	2539	5327	51	56	72	82	16	68	6.6	11	6.5	12
32-10K4	32	10	33.4	26.91	6.350	4	48	3252	7102	51	56	83	82	16	68	6.6	11	6.5	12
40-5K4	40	5	40.6	37.324	3.175	4	50	1599	5280	51	54	53	80	16	66	6.6	11	6.5	12
40-5K6	40	5	40.6	37.324	3.175	6	74	2265	7919	51	54	66	80	16	66	6.6	11	6.5	12
40-5.08K6	40	5.08	40.6	37.324	3.175	6	74	2265	7919	53	56	65	90	15	72	9	14	8.5	15
40-6K4	40	6	40.8	36.744	3.969	4	50	2136	6420	53	56	65	88	16	72	9	14	8.5	15
40-6K6	40	6	40.8	36.744	3.969	6	74	3028	9630	53	56	79	88	16	72	9	14	8.5	15
40-8K4	40	8	41	36.132	4.763	4	52	2728	7596	55	60	78	92	16	75	9	14	8.5	15
40-8K6	40	8	41	36.132	4.763	6	76	3866	11394	55	60	99	92	16	75	9	14	8.5	15
40-10K3	40	10	41.4	34.91	6.350	3	40	2959	7069	60	65	76	96	16	80	9	14	8.5	15
40-10K4	40	10	41.4	34.91	6.350	4	51	3789	9426	60	65	87	96	16	80	9	14	8.5	15
50-5K4	50	5	50.6	47.324	3.175	4	62	1757	6745	62	65	57	96	16	80	9	14	8.5	15
50-5K6	50	5	50.6	47.324	3.175	6	91	2490	10117	62	65	70	96	16	80	9	14	8.5	15
50-6K4	50	6	50.8	46.744	3.969	4	62	2388	8250	64	68	65	100	16	84	9	14	8.5	15
50-6K6	50	6	50.8	46.744	3.969	6	93	3384	12375	64	68	79	100	16	84	9	14	8.5	15
50-8K4	50	8	51	46.132	4.763	4	62	2998	9578	65	70	78	102	16	85	9	14	8.5	15
50-8K6	50	8	51	46.132	4.763	6	92	4249	14367	65	70	99	102	16	85	9	14	8.5	15
50-10K3	50	10	51.4	44.91	6.350	3	50	3397	9256	69	74	78	114	18	92	11	17.5	11	20
50-10K4	50	10	51.4	44.91	6.350	4	63	4350	12341	69	74	89	114	18	92	11	17.5	11	20
50-10K6	50	10	51.4	44.91	6.350	6	94	6165	18511	69	74	112	114	18	92	11	17.5	11	20
50-12K3	50	12	51.8	43.688	7.938	3	50	4420	11047	73	78	90	118	18	96	11	17.5	11	20
50-12K4	50	12	51.8	43.688	7.938	4	63	5660	14730	73	78	103	118	18	96	11	17.5	11	20
50-20K4	50	20	52.2	42.466	9.525	4	80	9327	23955	75	78	186	129	28	105	14	20	13	30

Precision Ground Ball Screw Series

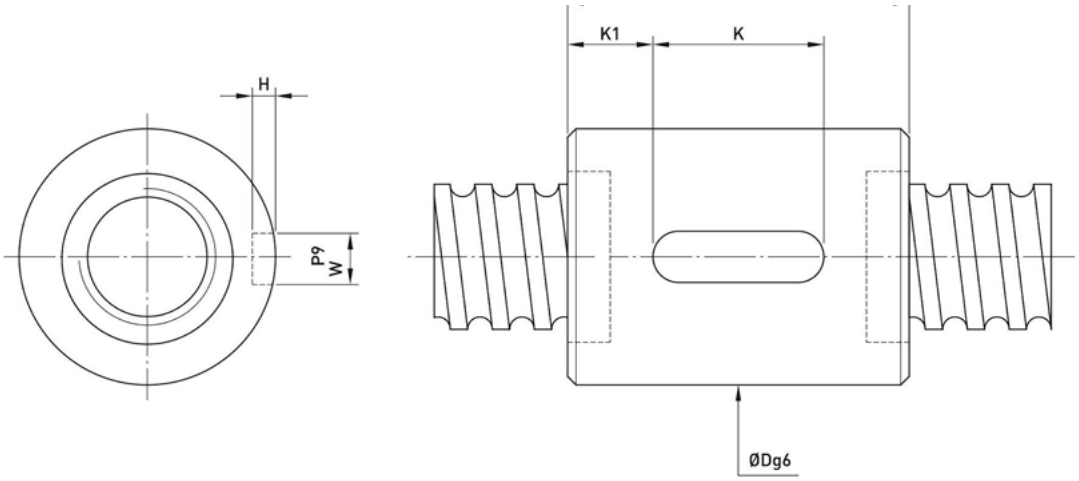
ST — FSI type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut			Flange			Bolt			Fit
	Nominal Dia.	Lead								D		L	F	T	BCD-E	X	Y	Z	S
63-6K4	63	6	63.8	59.744	3.969	4	75	2614	10542	78	80	66	119	18	98	11	17.5	11	20
63-6K6	63	6	63.8	59.744	3.969	6	113	3704	15813	78	80	81	119	18	98	11	17.5	11	20
63-8K4	63	8	64	59.132	4.763	4	77	3395	12541	79	82	80	122	18	100	11	17.5	11	20
63-8K6	63	8	64	59.132	4.763	6	114	4812	18811	79	82	101	122	18	100	11	17.5	11	20
63-10K4	63	10	64.4	57.91	6.350	4	79	4860	15858	82	88	91	134	20	110	14	20	13	20
63-10K6	63	10	64.4	57.91	6.350	6	115	6887	23786	82	88	114	134	20	110	14	20	13	20
63-12K4	63	12	64.8	56.688	7.938	4	78	6479	19293	86	92	105	138	20	114	14	20	13	20
63-12K6	63	12	64.8	56.688	7.938	6	113	9182	28939	86	92	133	138	20	114	14	20	13	20
80-10K4	80	10	81.4	74.91	6.350	4	96	5559	21118	99	105	91	152	20	127	14	20	13	20
80-10K6	80	10	81.4	74.91	6.350	6	140	7879	31677	99	105	114	152	20	127	14	20	13	20
80-12K4	80	12	81.8	73.688	7.938	4	97	7430	25681	103	110	109	170	24	138	18	26	17.5	25
80-12K6	80	12	81.8	73.688	7.938	6	141	10530	38521	103	110	137	170	24	138	18	26	17.5	25
80-16K3	80	16	82.2	72.466	9.525	3	95	9663	31622	108	115	118	174	24	143	18	26	17.5	25
80-16K4	80	16	82.2	72.466	9.525	4	130	12375	42162	108	115	136	174	24	143	18	26	17.5	25
80-20K3	80	20	82.2	72.466	9.525	3	95	9663	31622	108	115	138	174	24	143	18	26	17.5	25
80-20K4	80	20	82.2	72.466	9.525	4	125	12375	42162	108	115	161	174	24	143	18	26	17.5	25
100-12K4	100	12	101.8	93.688	7.938	4	105	8306	33001	123	130	109	190	24	158	18	26	17.5	25
100-12K6	100	12	101.8	93.688	7.938	6	175	11772	49502	123	130	137	190	24	158	18	26	17.5	25
100-16K4	100	16	102.2	92.466	9.525	4	107	13569	53161	125	135	136	194	24	163	18	26	17.5	30
100-16K6	100	16	102.2	92.466	9.525	6	140	19230	79741	125	135	173	194	24	163	18	26	17.5	30
100-20K4	100	20	102.2	92.466	9.525	4	155	13569	53161	125	135	161	194	24	163	18	26	17.5	30

Precision Ground Ball Screw Series

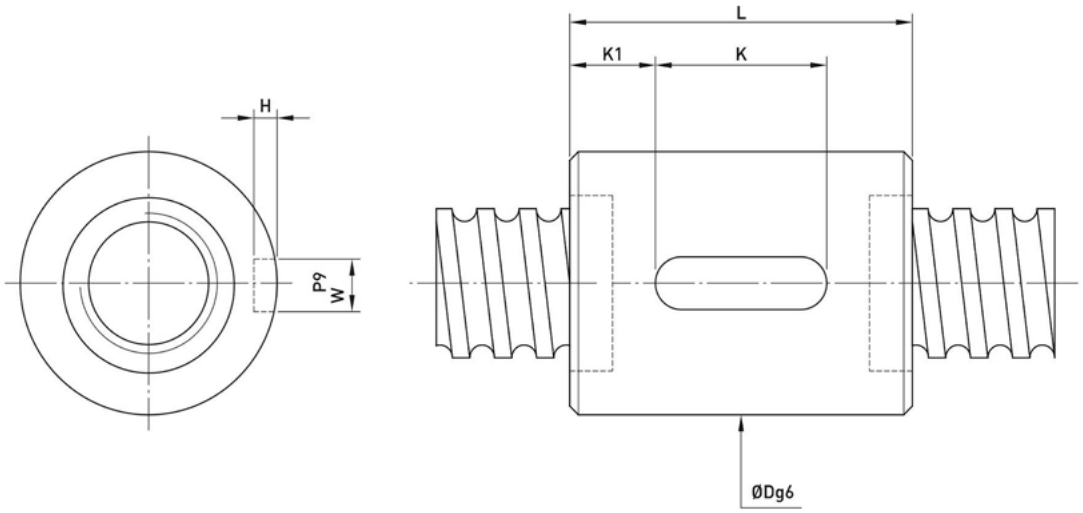
ST — RSI type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut			Keyway			
	Nominal Dia.	Lead								D		L	K	W	H	K1
16-2K4	16	2	16.2	14.652	1.500	4	15	178	395	25	25	25	20	3	1.8	2.5
16-5K3	16	5	16.6	13.324	3.175	3	11	731	1331	28	30	40	20	3	1.8	10
16-5K4	16	5	16.6	13.324	3.175	4	12	936	1775	28	30	46	20	3	1.8	13
20-5K3	20	5	20.6	17.324	3.175	3	20	852	1767	32	34	41	20	3	1.8	10.5
20-5K4	20	5	20.6	17.324	3.175	4	27	1091	2356	32	34	48	20	3	1.8	14
20-6K3	20	6	20.8	16.744	3.969	3	20	1091	2081	34	36	46	20	4	2.5	13
20-6K4	20	6	20.8	16.744	3.969	4	27	1398	2774	34	36	56	25	4	2.5	15.5
25-5K3	25	5	25.6	22.324	3.175	3	28	977	2314	37	40	41	20	4	2.5	10.5
25-5K4	25	5	25.6	22.324	3.175	4	37	1252	3085	37	40	48	20	4	2.5	14
25-6K3	25	6	25.8	21.744	3.969	3	28	1272	2762	38	42	46	20	4	2.5	13
25-6K4	25	6	25.8	21.744	3.969	4	37	1628	3682	38	42	56	25	4	2.5	15.5
32-5K3	32	5	32.6	29.324	3.175	3	33	1117	3081	44	48	41	20	4	2.5	10.5
32-5K4	32	5	32.6	29.324	3.175	4	42	1431	4108	44	48	48	20	4	2.5	14
32-5K6	32	5	32.6	29.324	3.175	6	63	2027	6162	44	48	61	25	4	2.5	18
32-6K3	32	6	32.8	28.744	3.969	3	33	1446	3620	45	50	46	20	5	3	13
32-6K4	32	6	32.8	28.744	3.969	4	43	1852	4826	45	50	56	25	5	3	15.5
32-6K6	32	6	32.8	28.744	3.969	6	65	2625	7239	45	50	70	32	5	3	19
32-8K3	32	8	33	28.132	4.763	3	35	1810	4227	47	52	59	25	5	3	17
32-8K4	32	8	33	28.132	4.763	4	47	2317	5635	47	52	70	25	5	3	22.5
32-10K3	32	10	33.4	26.91	6.350	3	35	2539	5327	51	56	68	25	6	3.5	21.5
32-10K4	32	10	33.4	26.91	6.350	4	48	3252	7102	51	56	79	32	6	3.5	23.5
40-5K4	40	5	40.6	37.324	3.175	4	50	1599	5280	51	54	48	20	4	2.5	14
40-5K6	40	5	40.6	37.324	3.175	6	74	2265	7919	51	54	61	25	4	2.5	18
40-6K4	40	6	40.8	36.744	3.969	4	50	2136	6420	53	56	56	25	5	3	15.5
40-6K6	40	6	40.8	36.744	3.969	6	74	3028	9630	53	56	70	32	5	3	19
40-8K4	40	8	41	36.132	4.763	4	52	2728	7596	55	60	70	25	5	3	22.5
40-8K6	40	8	41	36.132	4.763	6	76	3866	11394	55	60	91	40	5	3	25.5
40-10K3	40	10	41.4	34.91	6.350	3	40	2959	7069	60	65	68	25	6	3.5	21.5
40-10K4	40	10	41.4	34.91	6.350	4	51	3789	9426	60	65	79	32	6	3.5	23.5
50-5K4	50	5	50.6	47.324	3.175	4	62	1757	6745	62	65	48	20	4	2.5	14
50-5K6	50	5	50.6	47.324	3.175	6	91	2490	10117	62	65	61	25	4	2.5	18
50-6K4	50	6	50.8	46.744	3.969	4	62	2388	8250	64	68	56	25	5	3	15.5
50-6K6	50	6	50.8	46.744	3.969	6	93	3384	12375	64	68	70	32	5	3	19
50-8K4	50	8	51	46.132	4.763	4	62	2998	9578	65	70	70	32	5	3	19
50-8K6	50	8	51	46.132	4.763	6	92	4249	14367	65	70	91	40	5	3	25.5
50-10K3	50	10	51.4	44.91	6.350	3	50	3397	9256	69	74	68	32	6	3.5	18
50-10K4	50	10	51.4	44.91	6.350	4	63	4350	12341	69	74	79	32	6	3.5	23.5

Precision Ground Ball Screw Series

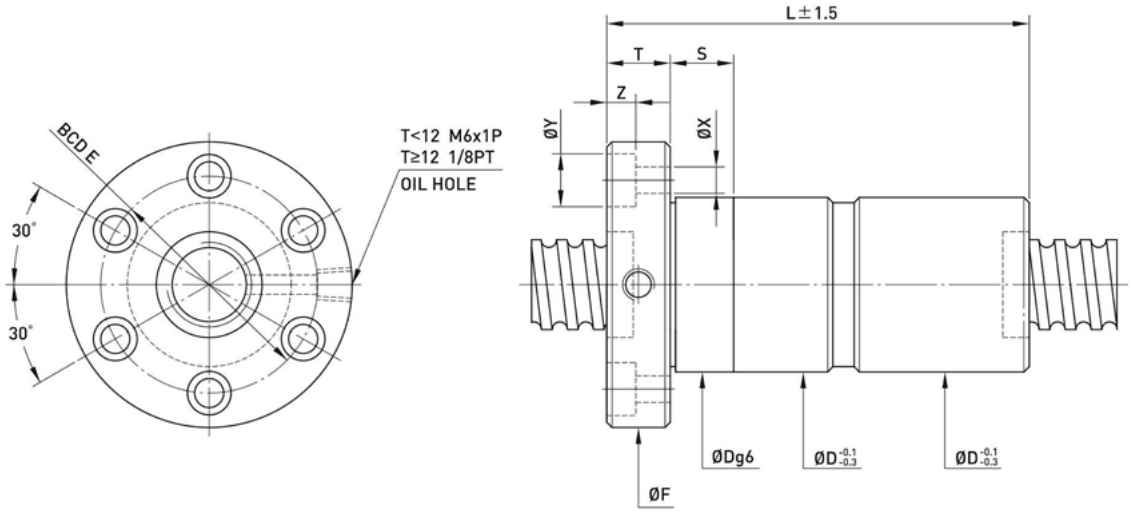
ST — RSI type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut			Keyway			
	Nominal Dia.	Lead								D		L	K	W	H	K1
50-10K6	50	10	51.4	44.91	6.350	6	94	6165	18511	69	74	102	40	6	3.5	31
50-12K3	50	12	51.8	43.688	7.938	3	50	4420	11047	73	78	82	40	6	3.5	21
50-12K4	50	12	51.8	43.688	7.938	4	63	5660	14730	73	78	95	40	6	3.5	27.5
63-6K4	63	6	63.8	59.744	3.969	4	75	2674	10542	78	80	56	25	6	3.5	15.5
63-6K6	63	6	63.8	59.744	3.969	6	113	3704	15813	78	80	70	32	6	3.5	19
63-8K4	63	8	64	59.132	4.763	4	77	3395	12541	79	82	70	32	6	3.5	19
63-8K6	63	8	64	59.132	4.763	6	114	4812	18811	79	82	91	40	6	3.5	25.5
63-10K4	63	10	64.4	57.91	6.350	4	79	4860	15858	82	88	79	32	8	4	23.5
63-10K6	63	10	64.4	57.91	6.350	6	115	6887	23786	82	88	102	40	8	4	31
63-12K4	63	12	64.8	56.688	7.938	4	78	6479	19293	86	92	95	40	8	4	27.5
63-12K6	63	12	64.8	56.688	7.938	6	113	9182	28939	86	92	123	50	8	4	36.5
80-10K4	80	10	81.4	74.91	6.350	4	96	5559	21118	99	105	79	32	8	4	23.5
80-10K6	80	10	81.4	74.91	6.350	6	140	7879	31677	99	105	102	40	8	4	31
80-12K4	80	12	81.8	73.688	7.938	4	97	7430	25681	103	110	95	40	8	4	27.5
80-12K6	80	12	81.8	73.688	7.938	6	141	10530	38521	103	110	123	50	8	4	36.5
80-16K3	80	16	82.2	72.466	9.525	3	95	9663	31622	108	115	106	40	10	5	33
80-16K4	80	16	82.2	72.466	9.525	4	130	12375	42162	108	115	124	50	10	5	37
80-20K3	80	20	82.2	72.466	9.525	3	95	9663	31622	108	115	126	50	10	5	38
80-20K4	80	20	82.2	72.466	9.525	4	125	12375	42162	108	115	149	63	10	5	43
100-12K4	100	12	101.8	93.688	7.938	4	105	8306	33001	123	130	95	40	8	4	27.5
100-12K6	100	12	101.8	93.688	7.938	6	175	11772	49502	123	130	123	50	8	4	36.5
100-16K4	100	16	102.2	92.466	9.525	4	107	13569	53161	125	135	124	50	10	5	37
100-16K6	100	16	102.2	92.466	9.525	6	140	19230	79741	125	135	161	63	10	5	49
100-20K4	100	20	102.2	92.466	9.525	4	155	13569	53161	125	135	149	63	10	5	43

Precision Ground Ball Screw Series

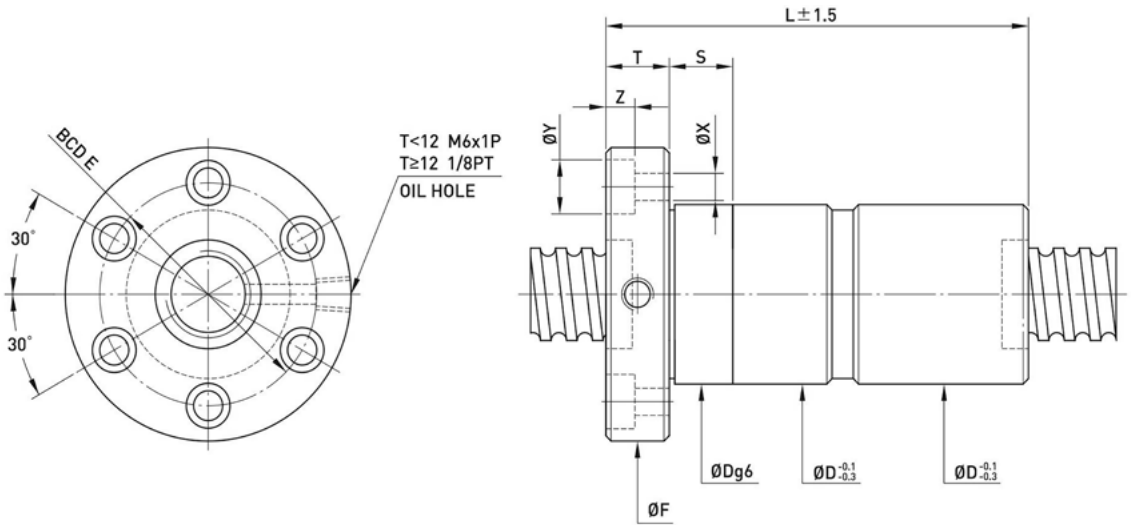
ST — FSI type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut			Flange			Bolt			Fit
	Nominal Dia.	Lead								D		L	F	T	BCD-E	X	Y	Z	S
16-5K3	16	5	16.6	13.324	3.175	3	20	731	1331	28	30	78	54	12	41	5.5	9.5	5.5	24
16-5K4	16	5	16.6	13.324	3.175	4	23	936	1775	28	30	90	54	12	41	5.5	9.5	5.5	24
20-5K3	20	5	20.6	17.324	3.175	3	39	852	1767	32	34	78	57	12	45	5.5	9.5	5.5	24
20-5K4	20	5	20.6	17.324	3.175	4	54	1091	2356	32	34	92	57	12	45	5.5	9.5	5.5	24
20-6K3	20	6	20.8	16.744	3.969	3	39	1091	2081	34	36	89	60	12	48	5.5	9.5	5.5	24
20-6K4	20	6	20.8	16.744	3.969	4	54	1398	2774	34	36	109	60	12	48	5.5	9.5	5.5	24
25-2.5K5	25	2.5	25.2	23.136	2.000	5	66	716	2117	35	40	87	65	10	51	6.6	11	6.5	24
25-5K3	25	5	25.6	22.324	3.175	3	55	977	2314	37	40	78	64	12	52	5.5	9.5	5.5	24
25-5K4	25	5	20.6	22.324	3.175	4	73	1252	3085	37	40	96	64	12	52	5.5	9.5	5.5	24
25-6K3	25	6	25.8	21.744	3.969	3	56	1272	2762	38	42	89	65	12	53	5.5	9.5	5.5	24
25-6K4	25	6	25.8	21.744	3.969	4	75	1628	3682	38	42	109	65	12	53	5.5	9.5	5.5	24
25-10K3	25	10	26	21.132	4.763	3	49	1643	3265	47	51	140	74	15	60	6.6	11	6.5	24
28-5K5	28	5	28.6	25.324	3.175	5	86	1619	4404	45	50	110	74	12	62	5.5	9.5	5.5	24
28-10K4	28	10	29	24.132	4.763	4	70	2199	4969	45	50	150	74	12	61	6.6	11	6.5	24
32-2.5K6	32	2.5	32.2	30.136	2.000	6	97	928	3339	45	51	106	74	12	62	5.5	9.5	5.5	24
32-5K3	32	5	32.6	29.324	3.175	3	64	1117	3081	44	48	78	74	12	60	6.6	11	6.5	24
32-5K4	32	5	32.6	29.324	3.175	4	82	1431	4108	44	48	96	74	12	60	6.6	11	6.5	24
32-5K6	32	5	32.6	29.324	3.175	6	121	2027	6162	44	48	118	74	12	60	6.6	11	6.5	24
32-5.08K4	32	5.08	32.6	29.324	3.175	4	82	1430	4108	44	48	96	74	12	60	6.6	11	6.5	24
32-6K3	32	6	32.8	28.744	3.969	3	65	1446	3620	45	50	89	76	12	62	6.6	11	6.5	24
32-6K4	32	6	32.8	28.744	3.969	4	84	1852	4826	45	50	109	76	12	62	6.6	11	6.5	24
32-6K6	32	6	32.8	28.744	3.969	6	125	2625	7239	45	50	137	76	12	62	6.6	11	6.5	24
32-8K3	32	8	33	28.132	4.763	3	68	1810	4227	47	52	110	78	16	64	6.6	11	6.5	24
32-8K4	32	8	33	28.132	4.763	4	82	2317	5635	47	52	136	78	16	64	6.6	11	6.5	24
32-10K3	32	10	33.4	26.910	6.350	3	68	2539	5327	51	56	129	82	16	68	6.6	11	6.5	24
32-10K4	32	10	33.4	26.910	6.350	4	82	3252	7102	51	56	155	82	16	68	6.6	11	6.5	24
40-5K4	40	5	40.6	37.324	3.175	4	99	1599	5280	51	54	96	80	16	66	6.6	11	6.5	24
40-5K6	40	5	40.6	37.324	3.175	6	146	2265	7919	51	54	122	80	16	66	6.6	11	6.5	24
40-6K4	40	6	40.8	36.744	3.969	4	100	2136	6420	53	56	113	88	16	72	9	14	8.5	30
40-6K6	40	6	40.8	36.744	3.969	6	148	3028	9630	53	56	141	88	16	72	9	14	8.5	30
40-8K4	40	8	41	36.132	4.763	4	102	2728	7596	55	60	136	92	16	75	9	14	8.5	30
40-8K6	40	8	41	36.132	4.763	6	150	3866	11394	55	60	178	92	16	75	9	14	8.5	30
40-10K3	40	10	41.4	34.91	6.350	3	76	2959	7069	60	65	133	96	16	80	9	14	8.5	30
40-10K4	40	10	41.4	34.91	6.350	4	101	3789	9426	60	65	155	96	16	80	9	14	8.5	30
40-10K5	40	10	41.4	34.91	6.350	5	119	4590	11781	60	65	192	96	16	80	9	14	8.5	30
40-12K3	40	12	41.4	34.91	6.350	3	73	2958	7069	58	60	160	96	18	80	9	14	8.5	30
40-12K4	40	12	41.4	34.91	6.350	4	101	3789	9425	58	60	186	96	18	80	9	14	8.5	30

Precision Ground Ball Screw Series

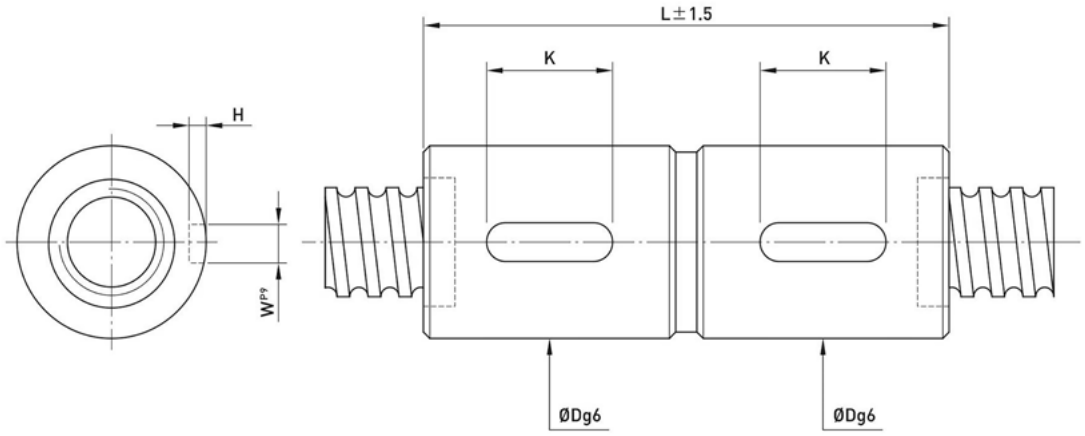
ST — RDI type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut			Flange			Bolt			Fit
	Nominal Dia.	Lead								D		L	F	T	BCD-E	X	Y	Z	S
45-10K4	45	10	46.6	39.299	7.144	4	108	4683	11930	68	70	160	110	18	90	11	17.5	11	30
45-12K3	45	12	46.4	39.91	6.350	3	80	3115	7952	68	70	183	110	16	90	11	17.5	11	30
45-16K3	45	16	46.6	39.299	7.144	3	82	3656	8947	68	70	183	110	16	90	11	17.5	11	30
50-5K4	50	5	50.6	47.324	3.175	4	121	1757	6745	62	65	96	96	16	80	9	14	8.5	30
50-5K6	50	5	50.6	47.324	3.175	6	177	2490	10117	62	65	122	96	16	80	9	14	8.5	30
50-6K4	50	6	50.8	46.744	3.969	4	123	2388	8250	64	68	113	100	16	84	9	14	8.5	30
50-6K6	50	6	50.8	46.744	3.969	6	179	3384	12375	64	68	147	100	16	84	9	14	8.5	30
50-8K4	50	8	51	46.132	4.763	4	122	2998	9578	65	70	136	102	16	85	9	14	8.5	30
50-8K6	50	8	51	46.132	4.763	6	178	4249	14367	65	70	178	102	16	85	9	14	8.5	30
50-10K3	50	10	51.4	44.91	6.350	3	95	3397	9256	69	74	135	114	18	92	11	17.5	11	40
50-10K4	50	10	51.4	44.91	6.350	4	124	4350	12341	69	74	157	114	18	92	11	17.5	11	40
50-10K6	50	10	51.4	44.91	6.350	6	184	6165	18511	69	74	203	114	18	92	11	17.5	11	40
50-12K3	50	12	51.8	43.688	7.938	3	94	4420	11047	73	78	158	118	18	96	11	17.5	11	40
50-12K4	50	12	51.8	43.688	7.938	4	124	5660	14730	73	78	184	118	18	96	11	17.5	11	40
63-6K4	63	6	63.8	59.744	3.969	4	148	2674	10542	78	80	115	119	18	98	11	17.5	11	40
63-6K6	63	6	63.8	59.744	3.969	6	220	3704	15813	78	80	143	119	18	98	11	17.5	11	40
63-8K4	63	8	64	59.132	4.763	4	152	3395	12541	79	82	138	122	18	100	11	17.5	11	40
63-8K6	63	8	64	59.132	4.763	6	222	4812	18811	79	82	180	122	18	100	11	17.5	11	40
63-10K4	63	10	64.4	57.91	6.350	4	158	4860	15858	82	88	159	134	20	110	14	20	13	40
63-10K6	63	10	64.4	57.91	6.350	6	228	6887	23786	82	88	205	134	20	110	14	20	13	40
63-12K4	63	12	64.8	56.688	7.938	4	152	6479	19293	86	92	186	138	20	114	14	20	13	40
63-12K6	63	12	64.8	56.688	7.938	6	224	9182	28939	86	92	242	138	20	114	14	20	13	40
80-10K4	80	10	81.4	74.91	6.350	4	190	5559	21118	99	105	172	152	20	127	14	20	13	40
80-10K6	80	10	81.4	74.91	6.350	6	277	7879	31677	99	105	214	152	20	127	14	20	13	40
80-12K4	80	12	81.8	73.688	7.938	4	192	7430	25681	103	110	190	170	24	138	18	26	17.5	50
80-12K6	80	12	81.8	73.688	7.938	6	280	10530	38521	103	110	246	170	24	138	18	26	17.5	50
80-16K3	80	16	82.2	72.466	9.525	3	188	9663	31622	108	115	208	174	24	143	18	26	17.5	50
80-16K4	80	16	82.2	72.466	9.525	4	254	12375	42162	108	115	244	174	24	143	18	26	17.5	50
80-20K3	80	20	82.2	72.466	9.525	3	189	9663	31622	108	115	250	174	24	143	18	26	17.5	50
80-20K4	80	20	82.2	72.466	9.525	4	248	12375	42162	108	115	296	174	24	143	18	26	17.5	50
100-12K4	100	12	101.8	93.688	7.938	4	206	8306	33001	123	130	190	190	24	158	18	26	17.5	50
100-12T6	100	12	101.8	93.688	7.938	6	343	11772	49502	123	130	246	190	24	158	18	26	17.5	50
100-16K4	100	16	102.2	92.466	9.525	4	212	13569	53161	135	135	244	194	24	163	18	26	17.5	60
100-16K6	100	16	102.2	92.466	9.525	6	276	19230	79741	135	135	318	194	24	163	18	26	17.5	60
100-20K4	100	20	102.2	92.466	9.525	4	300	13569	53161	135	135	296	194	24	163	18	26	17.5	60

Precision Ground Ball Screw Series

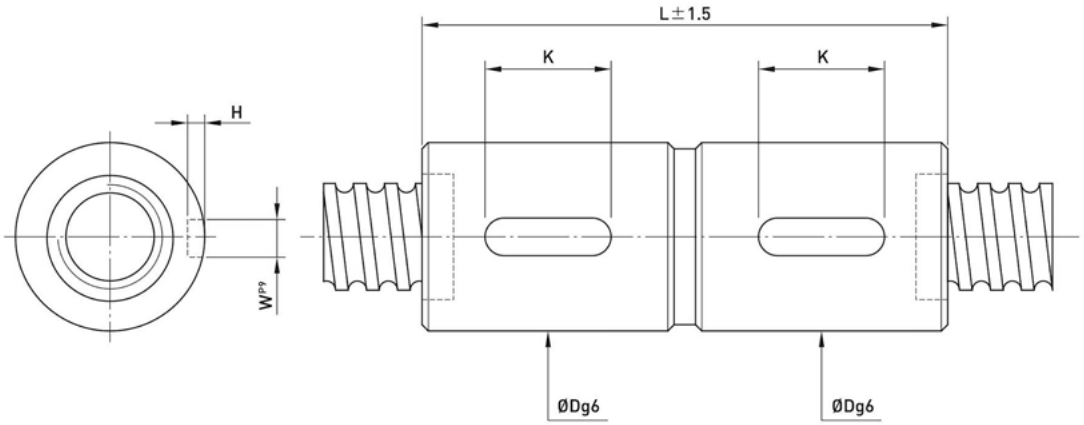
ST — RDI type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut			Keyway		
	Nominal Dia.	Lead								D		L	K	W	H
16-5K3	16	5	16.6	13.324	3.175	3	20	731	1331	28	30	72	20	3	1.8
16-5K4	16	5	16.6	13.324	3.175	4	23	936	1775	28	30	85	20	3	1.8
20-5K3	20	5	20.6	17.324	3.175	3	39	852	1767	32	34	75	20	3	1.8
20-5K4	20	5	20.6	17.324	3.175	4	54	1091	2356	32	34	85	20	3	1.8
20-6K3	20	6	20.8	16.744	3.969	3	39	1091	2081	34	36	87	20	4	2.5
20-6K4	20	6	20.8	16.744	3.969	4	54	1398	2774	34	36	103	25	4	2.5
25-5K3	25	5	25.6	22.324	3.175	3	55	977	2314	37	40	75	20	4	2.5
25-5K4	25	5	25.6	22.324	3.175	4	73	1252	3085	37	40	85	20	4	2.5
25-6K3	25	6	25.8	21.744	3.969	3	56	1272	2762	38	42	87	20	4	2.5
25-6K4	25	6	25.8	21.744	3.969	4	75	1628	3682	38	42	103	25	4	2.5
32-5K3	32	5	32.6	29.324	3.175	3	64	1117	3081	44	48	75	20	4	2.5
32-5K4	32	5	32.6	29.324	3.175	4	82	1431	4108	44	48	85	20	4	2.5
32-5K6	32	5	32.6	29.324	3.175	6	121	2027	6162	44	48	105	25	4	2.5
32-6K3	32	6	32.8	28.744	3.969	3	65	1446	3620	45	50	87	20	5	3
32-6K4	32	6	32.8	28.744	3.969	4	84	1852	4826	45	50	103	25	5	3
32-6K6	32	6	32.8	28.744	3.969	6	125	2625	7239	45	50	127	32	5	3
32-8K3	32	8	33	28.132	4.763	3	68	1810	4227	47	52	109	25	5	3
32-8K4	32	8	33	28.132	4.763	4	82	2317	5635	47	52	127	25	5	3
32-10K3	32	10	33.4	26.91	6.350	3	68	2539	5327	51	56	135	25	6	3.5
32-10K4	32	10	33.4	26.91	6.350	4	82	3252	7102	51	56	155	32	6	3.5
40-5K4	40	5	40.6	37.324	3.175	4	99	1599	5280	51	54	85	20	4	2.5
40-5K6	40	5	40.6	37.324	3.175	6	146	2265	7919	51	54	105	25	4	2.5
40-6K4	40	6	40.8	36.744	3.969	4	100	2136	6420	53	56	103	25	5	3
40-6K6	40	6	40.8	36.744	3.969	6	148	3028	9630	53	56	127	32	5	3
40-8K4	40	8	41	36.132	4.763	4	102	2728	7596	55	60	127	25	5	3
40-8K6	40	8	41	36.132	4.763	6	150	3866	11394	55	60	161	40	5	3
40-10K3	40	10	41.4	34.91	6.350	3	76	2959	7069	60	65	135	25	6	3.5
40-10K4	40	10	41.4	34.91	6.350	4	101	3789	9426	60	65	155	32	6	3.5

Precision Ground Ball Screw Series

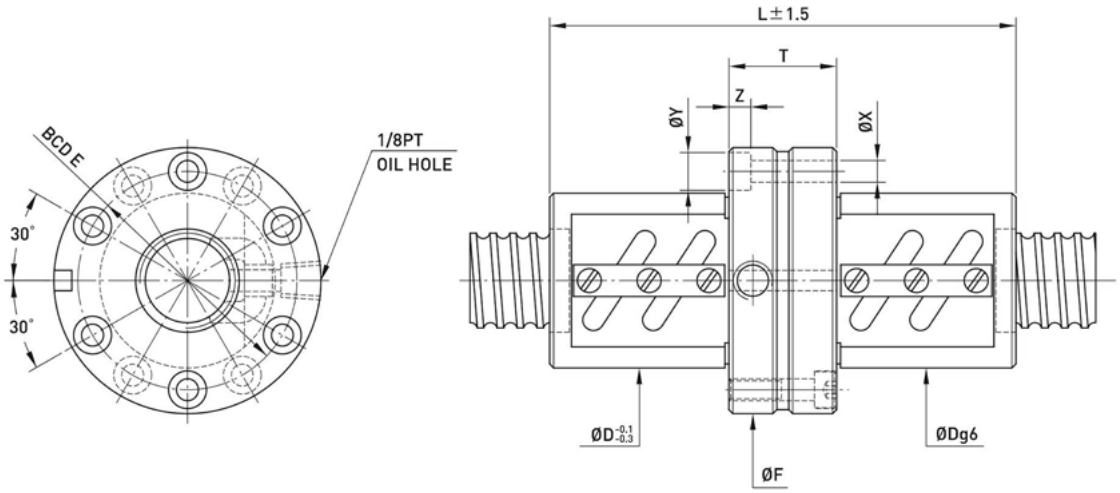
ST — RDI type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut			Keyway		
	Nominal Dia.	Lead								D		L	K	W	H
50-5K4	50	5	50.6	47.324	3.175	4	121	1757	6745	62	65	85	20	4	2.5
50-5K6	50	5	50.6	47.324	3.175	6	177	2490	10117	62	65	105	25	4	2.5
50-6K4	50	6	50.8	46.744	3.969	4	123	2388	8250	64	68	103	25	5	3
50-6K6	50	6	50.8	46.744	3.969	6	179	3384	12375	64	68	127	32	5	3
50-8K4	50	8	51	46.132	4.763	4	122	2998	9578	65	70	127	32	5	3
50-8K6	50	8	51	46.132	4.763	6	178	4249	14367	65	70	161	40	5	3
50-10K3	50	10	51.4	44.91	6.350	3	95	3397	9256	69	74	135	32	6	3.5
50-10K4	50	10	51.4	44.91	6.350	4	124	4350	12341	69	74	155	32	6	3.5
50-10K6	50	10	51.4	44.91	6.350	6	184	6165	18511	69	74	197	40	6	3.5
50-12K3	50	12	51.8	43.688	7.938	3	94	4420	11047	73	78	161	40	6	3.5
50-12K4	50	12	51.8	43.688	7.938	4	124	5660	14730	73	78	185	40	6	3.5
63-6K4	63	6	63.8	59.744	3.969	4	148	2614	10542	78	80	106	25	6	3.5
63-6K6	63	6	63.8	59.744	3.969	6	220	3704	15813	78	80	130	32	6	3.5
63-8K4	63	8	64	59.132	4.763	4	152	3395	12541	79	82	131	32	6	3.5
63-8K6	63	8	64	59.132	4.763	6	222	4812	18811	79	82	165	40	6	3.5
63-10K4	63	10	64.4	57.91	6.350	4	158	4860	15858	82	88	160	32	8	4
63-10K6	63	10	64.4	57.91	6.350	6	228	6887	23786	82	88	202	40	8	4
63-12K4	63	12	64.8	56.688	7.938	4	152	6479	19293	86	92	185	40	8	4
63-12K6	63	12	64.8	56.688	7.938	6	224	9182	28939	86	92	238	50	8	4
63-20K4	63	20	65.2	55.466	9.525	4	189	10657	31251	90	95	260	50	8	4
80-10K4	80	10	81.4	74.91	6.350	4	190	5559	21118	99	105	160	32	8	4
80-10K6	80	10	81.4	74.91	6.350	6	277	7879	31677	99	105	202	40	8	4
80-12K4	80	12	81.8	73.688	7.938	4	192	7430	25681	103	110	185	40	8	4
80-12K6	80	12	81.8	73.688	7.938	6	280	10530	38521	103	110	238	50	8	4
80-16K3	80	16	82.2	72.466	9.525	3	188	9663	31622	108	115	200	40	10	5
80-16K4	80	16	82.2	72.466	9.525	4	254	12375	42162	108	115	236	50	10	5
80-20K3	80	20	82.2	72.466	9.525	3	189	9663	31622	108	115	245	50	10	5
80-20K4	80	20	82.2	72.466	9.525	4	248	12375	42162	108	115	289	63	10	5
100-12K4	100	12	101.8	93.688	7.938	4	206	8306	33001	123	130	185	40	8	4
100-12K6	100	12	101.8	93.688	7.938	6	343	11772	49502	123	130	238	50	8	4
100-16K4	100	16	102.2	92.466	9.525	4	212	13569	53161	125	135	236	50	10	5
100-16K6	100	16	102.2	92.466	9.525	6	276	19230	79741	125	135	310	63	10	5
100-20K4	100	20	102.2	92.466	9.525	4	300	13569	53161	125	135	289	63	10	5

Precision Ground Ball Screw Series

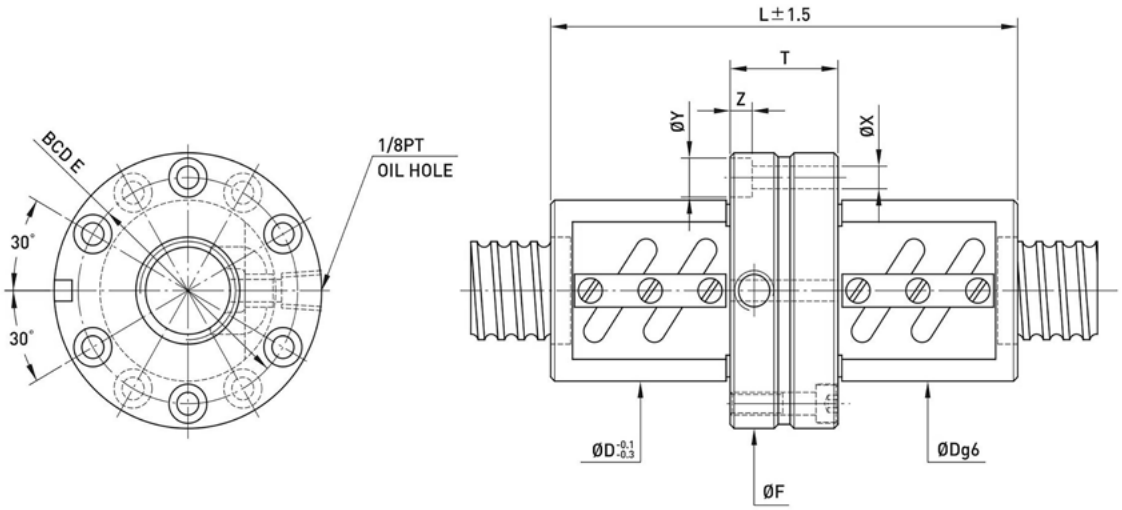
ST — PFDW type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt		
	Nominal Dia.	Lead								D	L	T	F	BCD-E	X	Y	Z
20-5D1	20	5	20.6	17.324	3.175	2.5x1	38	837	1733	44	87	27	67	55	5.5	9.5	5.5
20-5D2	20	5	20.6	17.324	3.175	2.5x2	76	1519	3465	44	117	27	67	55	5.5	9.5	5.5
20-6D1	20	6	20.8	16.744	3.969	2.5x1	40	1139	2187	48	95	29	71	59	5.5	9.5	5.5
20-6P1	20	6	20.8	16.744	3.969	3.5x1	55	1512	3041	48	107	29	71	59	5.5	9.5	5.5
25-5D1	25	5	25.6	22.324	3.175	2.5x1	46	939	2209	50	86	28	73	61	5.5	9.5	5.5
25-5D2	25	5	25.6	22.324	3.175	2.5x2	90	1704	4417	50	116	28	73	61	5.5	9.5	5.5
25-5P1	25	5	25.6	22.324	3.175	3.5x1	68	1252	3085	50	96	28	73	61	5.5	9.5	5.5
25-6D2	25	6	25.8	21.744	3.969	2.5x2	94	2308	5523	56	131	29	82	69	5.5	9.5	5.5
25-6P1	25	6	25.8	21.744	3.969	3.5x1	66	1690	3844	56	107	29	82	69	5.5	9.5	5.5
32-5D1	32	5	32.6	29.324	3.175	2.5x1	55	1039	2833	58	91	33	85	71	6.6	11	6.5
32-5D2	32	5	32.6	29.324	3.175	2.5x2	109	1886	5666	58	121	33	85	71	6.6	11	6.5
32-6D1	32	6	32.8	28.744	3.969	2.5x1	57	1409	3510	62	95	29	89	75	6.6	11	6.5
32-6D2	32	6	32.8	28.744	3.969	2.5x2	112	2556	7020	62	131	29	89	75	6.6	11	6.5
32-8D1	32	8	33	28.132	4.763	2.5x1	58	1810	4227	66	125	39	100	82	9	14	8.5
32-8D2	32	8	33	28.132	4.763	2.5x2	115	3284	8453	66	173	39	100	82	9	14	8.5
32-10D1	32	10	33.4	26.91	6.350	2.5x1	58	2651	5600	74	185	38	108	90	9	14	8.5
32-10D2	32	10	33.4	26.91	6.350	2.5x2	118	4810	11199	74	208	38	108	90	9	14	8.5
32-10P1	32	10	33.4	26.91	6.350	3.5x1	86	3519	7785	74	168	38	108	90	9	14	8.5
40-5D1	40	5	40.6	37.324	3.175	2.5x1	65	1141	3567	68	96	38	101	83	9	14	8.5
40-5D2	40	5	40.6	37.324	3.175	2.5x2	132	2071	7134	68	126	38	101	83	9	14	8.5
40-6D1	40	6	40.8	36.744	3.969	2.5x1	67	1552	4428	70	101	35	104	86	9	14	8.5
40-6D2	40	6	40.8	36.744	3.969	2.5x2	136	2817	8855	70	137	35	104	86	9	14	8.5
40-8D1	40	8	41	36.132	4.763	2.5x1	69	2003	5302	74	125	39	108	90	9	14	8.5
40-8D2	40	8	41	36.132	4.763	2.5x2	137	3634	10603	74	173	39	108	90	9	14	8.5
40-10D1	40	10	41.4	34.91	6.350	2.5x1	72	2959	7069	84	158	48	124	102	11	17.5	11
40-10D2	40	10	41.4	34.91	6.350	2.5x2	145	5370	14138	84	218	48	124	102	11	17.5	11
40-10P1	40	10	41.4	34.91	6.350	3.5x1	102	3932	9841	84	178	48	124	102	11	17.5	11
40-12D1	40	12	41.6	34.299	7.144	2.5x1	70	3425	7837	86	174	48	128	106	11	17.5	11
40-12D2	40	12	41.6	34.299	7.144	2.5x2	141	6217	15674	86	246	48	128	106	11	17.5	11

Precision Ground Ball Screw Series

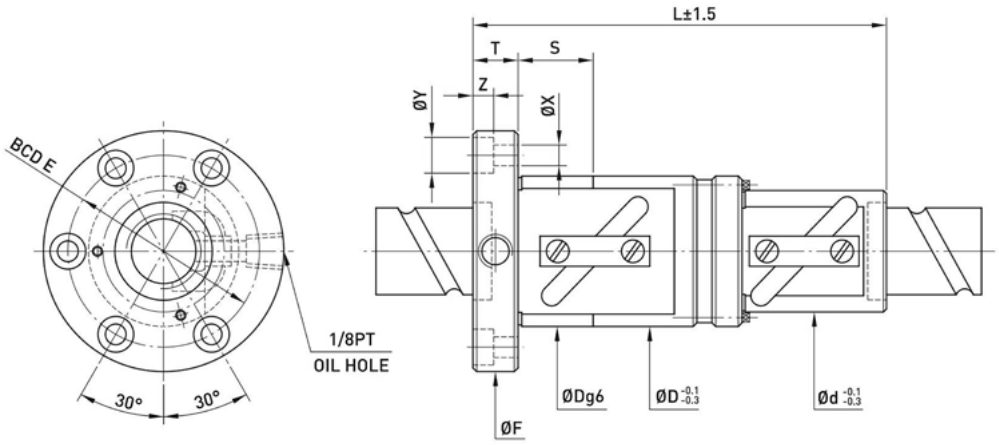
ST — PFDW type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt		
	Nominal Dia.	Lead								D	L	T	F	BCD-E	X	Y	Z
50-8D1	50	8	51	46.132	4.763	2.5x1	81	2206	6705	87	133	47	129	107	11	17.5	11
50-8D2	50	8	51	46.132	4.763	2.5x2	165	4004	13409	87	181	47	129	107	11	17.5	11
50-10D1	50	10	51.4	44.91	6.350	2.5x1	87	3264	8835	94	158	48	135	113	11	17.5	11
50-10D2	50	10	51.4	44.91	6.350	2.5x2	173	5923	17670	94	218	48	135	113	11	17.5	11
50-12D2	50	12	51.8	43.688	7.938	2.5x2	178	8022	22094	102	260	58	146	122	14	20	13
50-12P1	50	12	51.8	43.688	7.938	3.5x1	123	5875	15380	102	200	58	146	122	14	20	13
63-10D2	63	10	64.4	57.91	6.350	2.5x2	206	6533	22371	110	228	58	154	130	14	20	13
63-10D3	63	10	64.4	57.91	6.350	2.5x3	305	9258	33556	110	288	58	154	130	14	20	13
63-12D2	63	12	64.8	56.688	7.938	2.5x2	214	8943	28062	118	260	58	166	141	14	20	13
80-12D2	80	12	81.8	73.688	7.938	2.5x2	257	9797	35422	136	260	58	185	159	14	20	13
80-12D3	80	12	81.8	73.688	7.938	2.5x3	380	13884	53132	136	340	58	185	159	14	20	13
80-20D2	80	20	82.2	72.466	9.525	2.5x2	338	16485	58851	145	404	66	204	172	18	26	17.5
100-20D2	100	20	102.2	92.466	9.525	2.5x2	400	18123	74425	170	404	86	243	205	22	32	21.5

Precision Ground Ball Screw Series

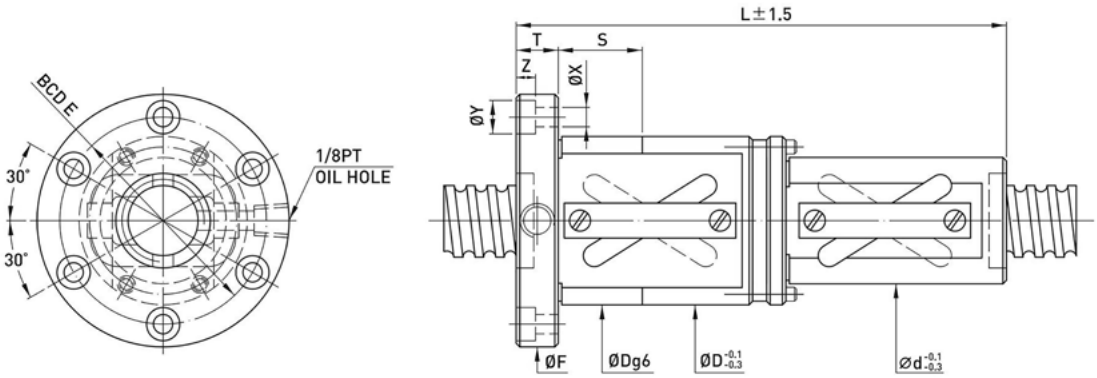
ST — PFDW type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut			Flange			Bolt			Fit
	Nominal Dia.	Lead								D	d	L	F	T	BCD-E	X	Y	Z	S
20-20E1	20	20	20.8	16.744	3.969	1.5x1	26	719	1281	48	36	140	72	12	59	5.5	9.5	5.5	24
25-16D1	25	16	26	21.132	4.763	2.5x1	56	1592	3237	62	45	148	89	16	75	6.6	11	6.5	24
25-20D1	25	20	26	21.132	4.763	2.5x1	56	1592	3237	62	45	178	89	16	75	6.6	11	6.5	24
25-25E1	25	25	26	21.132	4.763	1.5x1	32	1019	1927	62	45	166	89	16	75	6.6	11	6.5	24
32-20D1	32	20	33	28.132	4.763	2.5x1	66	1810	4227	68	54	181	102	16	84	9	14	8.5	30
32-25E1	32	25	33	28.132	4.763	2.5x1	66	1810	4227	68	54	218	102	16	84	9	14	8.5	30
32-32E1	32	32	33	28.132	4.763	1.5x1	36	1154	2505	68	54	205	102	16	84	9	14	8.5	30
40-25D1	40	25	41.4	34.91	6.350	2.5x1	78	2959	7069	84	65	224	126	18	104	11	17.5	11	30
40-32D1	40	32	41.4	34.91	6.350	2.5x1	78	2959	7069	84	65	276	126	18	104	11	17.5	11	30
40-40E1	40	40	41.4	34.91	6.350	1.5x1	48	1875	4159	84	65	274	126	18	104	11	17.5	11	30
50-40E1	50	40	51.8	43.688	7.938	1.5x1	54	2801	6499	106	82	264	152	22	128	13	20	13	40
50-50E1	50	50	51.8	43.688	7.938	1.5x1	60	2801	6499	106	82	320	152	22	128	13	20	13	40

Precision Ground Ball Screw Series

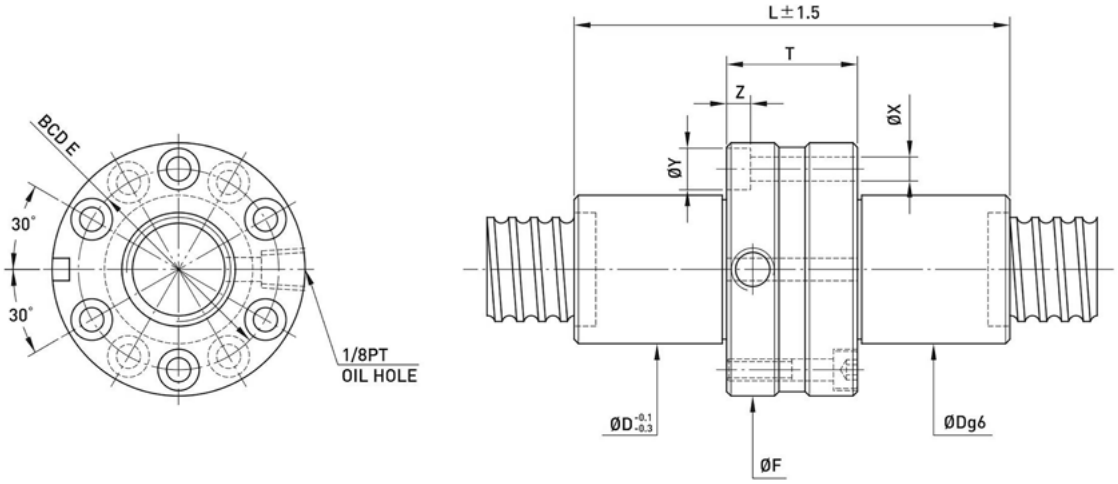
ST — PFDW type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Start type	D	d	L	F	T	BCD-E	X	Y	Z	S
	Nominal Dia.	Lead																		
36-20B2	36	20	37.4	30.91	6.35	2.5x2	87.6	4569	11820	2	94	76	191	136	18	114	11	17.5	11	30
40-25B2	40	25	41.6	34.299	7.144	2.5x2	96.6	5565	14624	2	98	80	230	140	18	118	11	17.5	11	30
40-30B2	40	30	41.6	34.299	7.144	2.5x2	96	5565	14624	2	98	80	250	140	18	118	11	17.5	11	30
45-25B2	45	25	46.6	39.299	7.144	2.5x2	106.5	5939	16696	2	101	83	230	143	18	121	11	17.5	11	30
45-30B2	45	30	46.6	39.299	7.144	2.5x2	105.9	5939	16696	2	101	83	250	143	18	121	11	17.5	11	30
50-25B2	50	25	51.6	44.299	7.144	2.5x2	115.2	6190	18441	2	103	85	230	145	18	123	11	17.5	11	40
50-30B2	50	30	51.6	44.299	7.144	2.5x2	118.2	6190	18441	2	103	85	250	145	18	123	11	17.5	11	40
55-25B2	55	25	56.6	49.299	7.144	2.5x2	127.5	6519	20515	2	105	87	230	147	18	125	11	17.5	11	40
55-30B2	55	30	56.6	49.299	7.144	2.5x2	127.2	6519	20515	2	105	87	250	147	18	125	11	17.5	11	40

Precision Ground Ball Screw Series

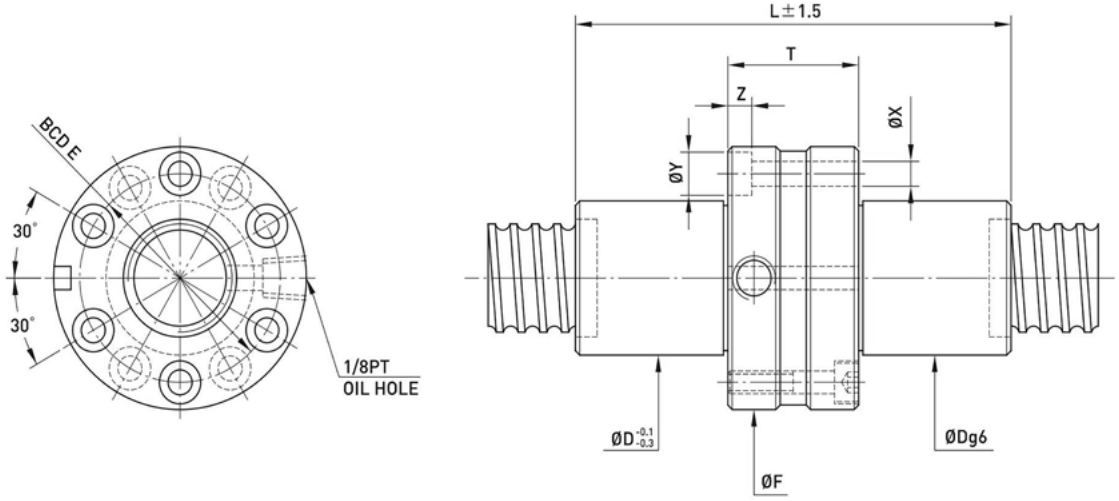
ST — PFDI type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt		
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z
20-5K3	20	5	20.6	17.324	3.175	3	39	852	1767	34	100	58	30	46	5.5	9.5	5.5
20-5K4	20	5	20.6	17.324	3.175	4	54	1091	2356	34	110	58	30	46	5.5	9.5	5.5
20-6K3	20	6	20.8	16.744	3.969	3	39	1091	2081	36	111	58	29	46	5.5	9.5	5.5
20-6K4	20	6	20.8	16.744	3.969	4	54	1398	2774	36	127	58	29	46	5.5	9.5	5.5
25-5K3	25	5	25.6	22.324	3.175	3	55	977	2314	40	100	63	30	51	5.5	9.5	5.5
25-5K4	25	5	25.6	22.324	3.175	4	73	1252	3085	40	110	63	30	51	5.5	9.5	5.5
25-6K3	25	6	25.8	21.744	3.969	3	56	1272	2762	40	111	63	29	51	5.5	9.5	5.5
25-6K4	25	6	25.8	21.744	3.969	4	75	1628	3682	40	127	63	29	51	5.5	9.5	5.5
32-5K3	32	5	32.6	29.324	3.175	3	64	1117	3081	48	100	75	30	61	6.6	11	6.5
32-5K4	32	5	32.6	29.324	3.175	4	82	1431	4108	48	110	75	30	61	6.6	11	6.5
32-6K3	32	6	32.8	28.744	3.969	3	65	1446	3620	50	111	75	29	61	6.6	11	6.5
32-6K4	32	6	32.8	28.744	3.969	4	84	1852	4826	50	127	75	29	61	6.6	11	6.5
32-8K3	32	8	33	28.132	4.763	3	68	1810	4227	52	139	84	35	68	9	14	8.5
32-8K4	32	8	33	28.132	4.763	4	82	2317	5635	52	157	84	35	68	9	14	8.5
32-10K3	32	10	33.4	26.91	6.350	3	68	2539	5327	56	165	88	35	70	9	14	8.5
32-10K4	32	10	33.4	26.91	6.350	4	82	3252	7102	56	185	88	35	70	9	14	8.5
40-5K4	40	5	40.6	37.324	3.175	4	99	1599	5280	54	115	90	35	72	9	14	8.5
40-5K6	40	5	40.6	37.324	3.175	6	146	2265	7919	54	135	90	35	72	9	14	8.5
40-6K4	40	6	40.8	36.744	3.969	4	100	2136	6420	56	133	90	35	72	9	14	8.5
40-6K6	40	6	40.8	36.744	3.969	6	148	3028	9630	56	157	90	35	72	9	14	8.5
40-8K4	40	8	41	36.132	4.763	4	102	2728	7596	60	157	94	35	76	9	14	8.5
40-8K6	40	8	41	36.132	4.763	6	150	3866	11394	60	191	94	35	76	9	14	8.5
40-10K3	40	10	41.4	34.91	6.350	3	76	2529	7069	62	175	104	45	82	11	17.5	11
40-10K4	40	10	41.4	34.91	6.350	4	101	3789	9426	62	195	104	45	82	11	17.5	11
50-5K4	50	5	50.6	47.324	3.175	4	121	1757	6745	65	115	100	35	82	9	14	8.5
50-5K6	50	5	50.6	47.324	3.175	6	177	2490	10117	65	135	100	35	82	9	14	8.5
50-6K4	50	6	50.8	46.744	3.969	4	123	2388	8250	68	136	100	38	82	9	14	8.5
50-6K6	50	6	50.8	46.744	3.969	6	179	3384	12375	68	160	100	38	82	9	14	8.5
50-8K4	50	8	51	46.132	4.763	4	122	2998	9578	70	165	112	43	90	11	17.5	11
50-8K6	50	8	51	46.132	4.763	6	178	4249	14367	70	199	112	43	90	11	17.5	11
50-10K3	50	10	51.4	44.91	6.350	3	95	3397	9256	74	175	114	45	92	11	17.5	11
50-10K4	50	10	51.4	44.91	6.350	4	124	4350	12341	74	195	114	45	92	11	17.5	11
50-10K6	50	10	51.4	44.91	6.350	6	184	6165	18511	74	235	114	43	92	11	17.5	11
50-12K3	50	12	51.8	43.688	7.938	3	94	4420	11047	75	203	121	49	97	14	20	13
50-12K4	50	12	51.8	43.688	7.938	4	124	5660	14730	75	227	121	49	97	14	20	13

Precision Ground Ball Screw Series

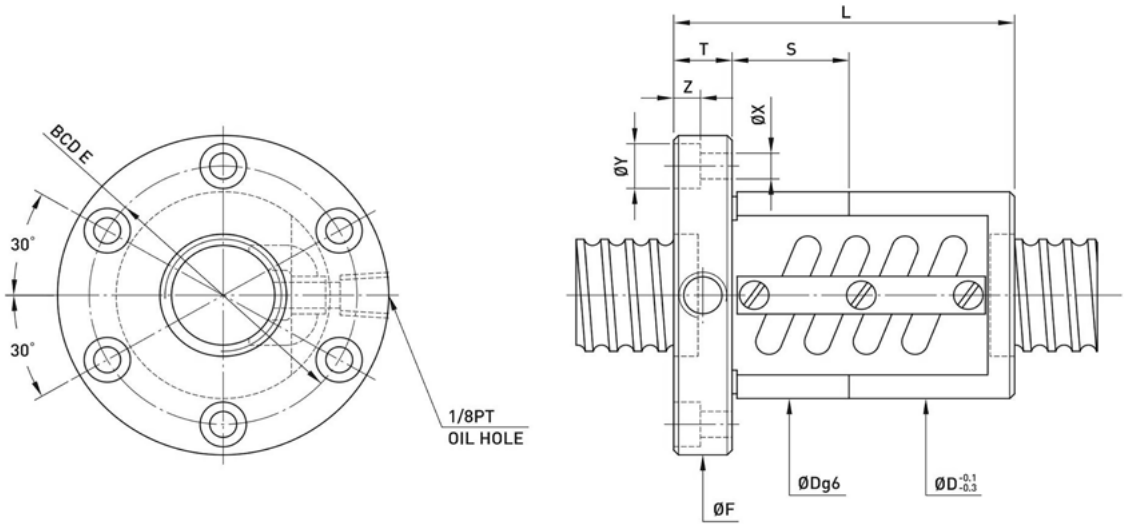
ST — PFDI type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt		
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z
63-6K4	63	6	63.8	59.744	3.969	4	148	2614	10542	80	142	122	44	100	11	17.5	11
63-6K6	63	6	63.8	59.744	3.969	6	220	3704	15813	80	166	122	44	100	11	17.5	11
63-8K4	63	8	64	59.132	4.763	4	152	3395	12541	82	165	124	43	102	11	17.5	11
63-8K6	63	8	64	59.132	4.763	6	222	4812	18811	82	199	124	43	102	11	17.5	11
63-10K4	63	10	64.4	57.91	6.350	4	158	4860	15858	85	205	131	55	107	14	20	13
63-10K6	63	10	64.4	57.91	6.350	6	228	6887	23786	85	245	131	53	107	14	20	13
63-12K4	63	12	64.8	56.688	7.938	4	152	6479	19293	90	230	136	52	112	14	20	13
63-12K6	63	12	64.8	56.688	7.938	6	224	9182	28939	90	280	136	52	112	14	20	13
80-10K4	80	10	81.4	74.91	6.350	4	190	5559	21118	105	205	151	55	127	14	20	13
80-10K6	80	10	81.4	74.91	6.350	6	277	7879	31677	105	245	151	53	127	14	20	13
80-12K4	80	12	81.8	73.688	7.938	4	192	7430	25681	110	230	156	52	132	14	20	13
80-12K6	80	12	81.8	73.688	7.938	6	280	10530	38521	110	280	156	52	132	14	20	13
80-20K3	80	20	82.2	72.466	9.525	3	189	9663	31622	115	301	173	65	143	18	26	17.5
80-20K4	80	20	82.2	72.466	9.525	4	248	12375	42162	115	346	173	66	143	18	26	17.5
100-10K6	100	10	101.4	94.91	6.350	6	236	8662	40469	125	245	171	53	147	14	20	13
100-12K6	100	12	102.2	92.466	9.525	6	343	19230	79741	130	292	188	64	158	18	26	17.5
100-20K4	100	20	102.2	92.466	9.525	4	300	13569	53161	135	356	205	76	169	22	32	21.5

Precision Ground Ball Screw Series

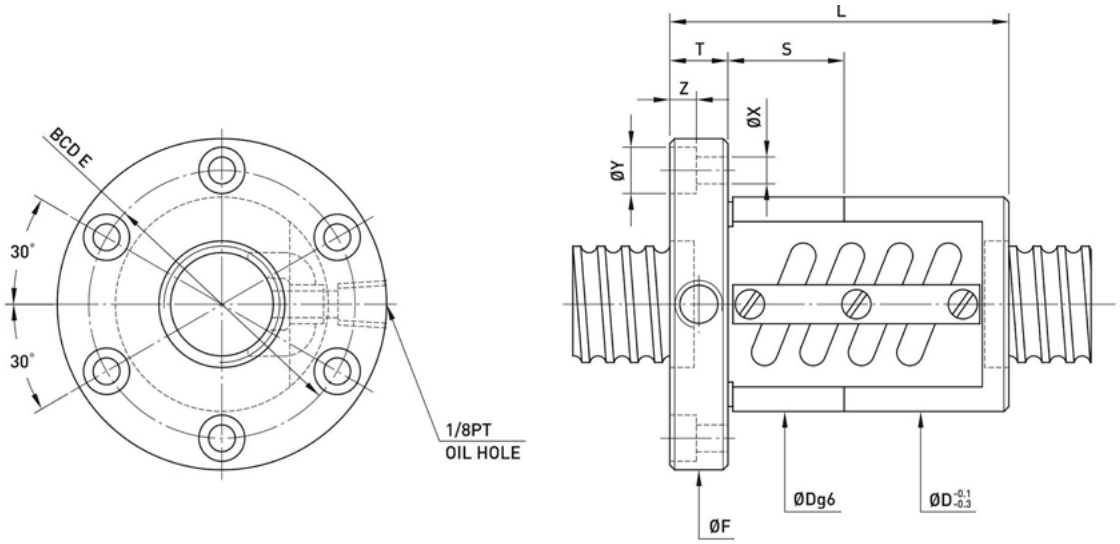
ST — OFSW type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S
16-5D1	16	5	16.6	13.324	3.175	2.5x1	32	763	1400	40	58	64	12	51	5.5	9.5	5.5	24
16-5D1	16	5	16.6	13.324	3.175	1.5x1	20	482	820	40	50	64	12	51	5.5	9.5	5.5	24
20-5D1	20	5	20.6	17.324	3.175	2.5x1	38	837	1733	44	60	68	12	55	5.5	9.5	5.5	24
20-5E2	20	5	20.6	17.324	3.175	1.5x2	46	979	2079	44	70	68	12	55	5.5	9.5	5.5	24
20-6D1	20	6	20.8	16.744	3.969	2.5x1	40	1139	2187	48	69	72	12	59	5.5	9.5	5.5	24
25-4D1	25	4	25.25	22.792	2.381	2.5x1	38	544	1376	46	48	69	12	57	5.5	9.5	5.5	12
25-4D2	25	4	25.25	22.792	2.381	2.5x2	74	988	2752	46	72	69	12	57	5.5	9.5	5.5	12
25-5D1	25	5	25.6	22.324	3.175	2.5x1	46	939	2209	50	60	74	12	62	5.5	9.5	5.5	24
25-5E2	25	5	25.6	22.324	3.175	1.5x2	48	1078	2594	50	70	74	12	62	5.5	9.5	5.5	24
25-5P1	25	5	25.6	22.324	3.175	3.5x1	68	1252	3085	50	72	74	12	62	5.5	9.5	5.5	24
25-6E2	25	6	25.8	21.744	3.969	1.5x2	56	1462	3249	56	82	82	12	69	6.6	11	6.5	24
25-6P1	25	6	25.8	21.744	3.969	3.5x1	66	1690	3844	56	81	82	12	69	6.6	11	6.5	24
25-10E1	25	10	26	21.132	4.763	1.5x1	29	1019	1927	60	81	86	16	73	6.6	11	6.5	24
28-5D1	28	5	28.6	25.324	3.175	2.5x1	51	984	2466	55	60	85	12	69	6.6	11	6.5	24
28-5D2	28	5	28.6	25.324	3.175	2.5x2	98	1785	4932	55	96	85	12	69	6.6	11	6.5	24
28-6E2	28	6	28.6	25.324	3.175	1.5x2	59	1150	2960	55	80	85	12	69	6.6	11	6.5	24
32-5D1	32	5	32.6	29.324	3.175	2.5x1	55	1039	2833	58	62	84	12	71	6.6	11	6.5	24
32-5E2	32	5	32.6	29.324	3.175	1.5x2	65	1216	3400	58	70	84	12	71	6.6	11	6.5	24
32-5P1	32	5	32.6	29.324	3.175	3.5x1	76	1388	3967	58	72	84	12	71	6.6	11	6.5	24
32-6D1	32	6	32.8	28.744	3.969	2.5x1	57	1409	3510	62	70	88	12	75	6.6	11	6.5	24
32-6E2	32	6	32.8	28.744	3.969	1.5x2	67	1633	4168	62	81	88	12	75	6.6	11	6.5	24
32-6P1	32	6	32.8	28.744	3.969	3.5x1	78	1888	4936	62	83	88	12	75	6.6	11	6.5	24
32-8D1	32	8	33	28.132	4.763	2.5x1	58	1810	4227	66	92	100	16	82	9	14	8.5	30
32-8E2	32	8	33	28.132	4.763	1.5x2	69	2094	5009	66	106	100	16	82	9	14	8.5	30
32-8P1	32	8	33	28.132	4.763	3.5x1	82	2428	5948	66	108	100	16	82	9	14	8.5	30
32-10D1	32	10	33.4	26.91	6.350	2.5x1	58	2651	5600	74	110	108	16	90	9	14	8.5	30
32-10E1	32	10	33.4	26.91	6.350	1.5x1	36	1673	3278	74	90	108	16	90	9	14	8.5	30
32-12E1	32	12	33.4	26.91	6.350	1.5x1	37	1672	3278	74	97	108	18	90	9	14	8.5	15
32-12D1	32	12	33.4	26.91	6.350	2.5x1	61	2650	5599	74	117	108	18	90	9	14	8.5	15

Precision Ground Ball Screw Series

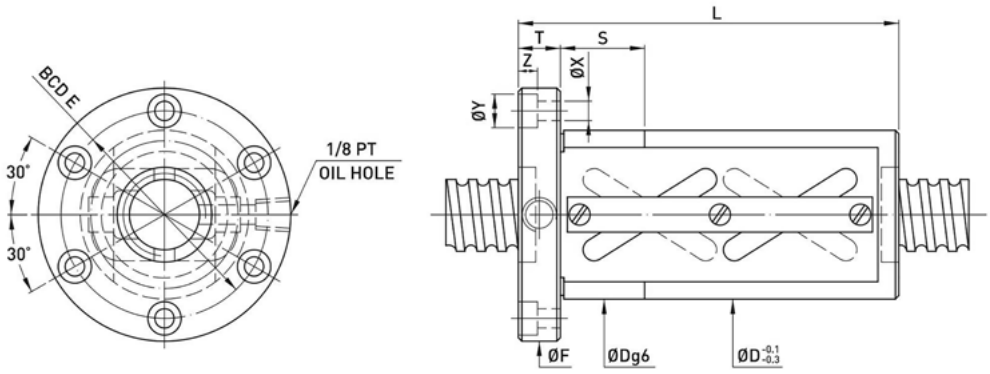
ST — OFSW type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S
36-6D1	36	6	36.6	33.324	3.175	2.5x1	62	1486	3969	65	68	100	12	82	6.6	11	6.5	24
36-6D2	36	6	36.6	33.324	3.175	2.5x2	121	2696	7937	65	103	100	12	82	6.6	11	6.5	24
36-10E1	36	10	37.4	30.91	6.350	1.5x1	40	1779	3718	75	90	120	18	98	11	17.5	11	30
36-16D1	36	16	37.4	30.91	6.350	2.5x1	67	2812	6334	74	136	114	18	90	9	14	8.5	15
40-5D1	40	5	40.6	37.324	3.175	2.5x1	65	1141	3567	68	65	102	16	84	9	14	8.5	30
40-5D2	40	5	40.6	37.324	3.175	2.5x2	132	2071	7134	68	95	102	16	84	9	14	8.5	30
40-6D2	40	6	40.8	36.744	3.969	2.5x2	136	2817	8855	70	109	104	16	86	9	14	8.5	30
40-8D1	40	8	41	36.132	4.763	2.5x1	69	2003	5302	74	90	108	16	90	9	14	8.5	30
40-8P1	40	8	41	36.132	4.763	3.5x1	96	2679	7438	74	108	108	16	90	9	14	8.5	30
40-10D1	40	10	41.4	34.91	6.350	2.5x1	72	2959	7069	84	110	125	18	104	11	17.5	11	30
40-10P1	40	10	41.4	34.91	6.350	3.5x1	102	3932	9841	84	132	125	18	104	11	17.5	11	30
40-12D1	40	12	41.6	34.299	7.144	2.5x1	72	3425	7837	86	117	128	18	106	11	17.5	11	40
40-16E1	40	16	41.6	34.299	7.144	1.5x1	46	2208	4703	86	117	128	18	106	11	17.5	11	40
45-10D1	45	10	46.4	39.91	6.350	2.5x1	76	3111	7953	88	110	132	18	110	11	17.5	11	30
45-12D1	45	12	46.8	38.688	7.938	2.5x1	81	4202	9900	96	132	142	22	117	13	20	13	40
50-5E2	50	5	50.6	47.324	3.175	1.5x2	96	1447	5382	80	74	114	16	96	9	14	8.5	30
50-5E3	50	5	50.6	47.324	3.175	1.5x3	143	2051	8072	80	103	114	16	96	9	14	8.5	30
50-6D2	50	6	50.8	46.744	3.969	2.5x2	161	3093	11149	84	110	118	16	100	9	14	8.5	30
50-8D1	50	8	51	46.132	4.763	2.5x1	81	2206	6705	87	92	128	18	107	11	17.5	11	30
50-8D2	50	8	51	46.132	4.763	2.5x2	165	4004	13409	87	140	128	18	107	11	17.5	11	30
50-10D2	50	10	51.4	44.91	6.350	2.5x2	173	5923	17670	94	170	135	18	114	11	17.5	11	30
50-10P1	50	10	51.4	44.91	6.350	3.5x1	120	4393	12481	94	130	135	18	114	11	17.5	11	30
50-12D1	50	12	51.8	43.688	7.938	2.5x1	123	4420	11047	102	132	150	22	125	13	20	13	40
55-10P1	55	10	56.4	49.91	6.350	3.5x1	132	4562	13661	100	130	140	18	118	11	17.5	11	40
55-12D1	55	12	56.8	48.688	7.938	2.5x1	128	4624	12195	105	132	154	22	127	13	20	13	40
63-8E2	63	8	64	59.132	4.763	1.5x2	107	2826	10129	104	108	146	18	124	11	17.5	11	40
63-10D2	63	10	64.4	57.91	6.350	2.5x2	206	6533	22371	110	172	152	20	130	11	17.5	11	40
63-12D1	63	12	64.8	56.688	7.938	2.5x1	107	4927	14031	118	135	166	22	141	13	20	13	40
63-16D1	63	16	65.2	55.466	9.525	2.5x1	140	8189	23005	124	158	172	22	147	13	20	13	40
63-20E1	63	20	65.2	55.466	9.525	1.5x1	84	5306	13890	124	147	172	22	147	13	20	13	40
70-10D1	70	10	71.4	64.91	6.350	2.5x1	114	3770	12506	124	112	170	20	145	13	20	13	40
70-12D1	70	12	71.8	63.688	7.938	2.5x1	118	5169	15638	130	132	178	22	152	13	20	13	40

Precision Ground Ball Screw Series

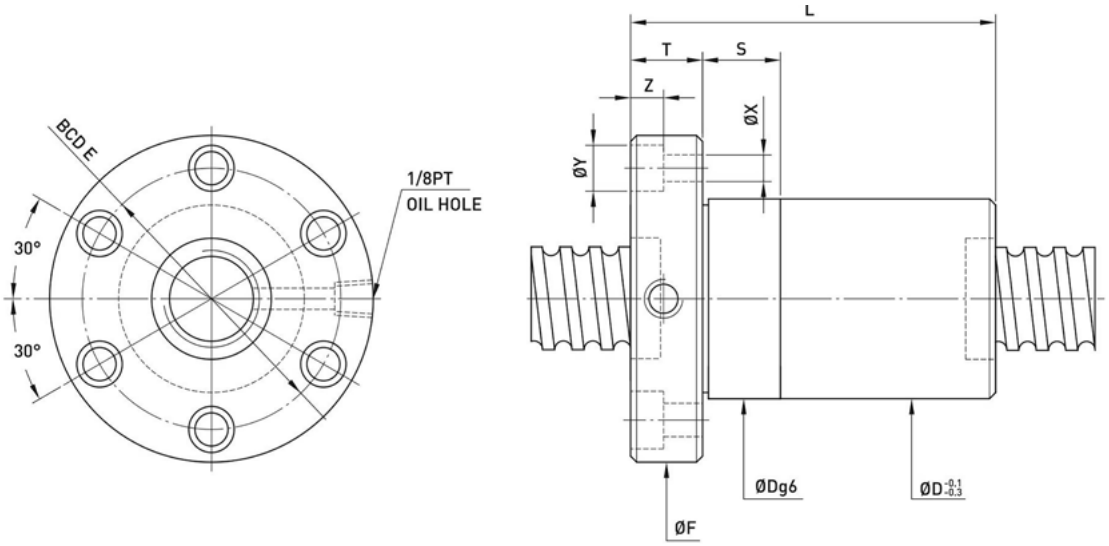
ST — OFSW type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Start type	D	L	F	T	BCD-E	X	Y	Z	S
	Nominal Dia.	Lead																	
36-20P1	36	20	37.4	30.91	6.35	3.5x1	62.2	3344	8223	2	94	121	136	18	114	11	17.5	11	30
40-20P1	40	20	41.4	34.91	6.35	3.5x1	68	3519	9182	2	96	121	138	18	116	11	17.5	11	30
40-20D2	40	20	41.4	34.91	6.35	2.5x2	95.7	4805	13191	2	96	161	138	18	116	11	17.5	11	30
45-20P1	45	20	46.4	39.91	6.35	3.5x1	76.1	3732	10413	2	98	122	140	18	118	11	17.5	11	30
45-20D2	45	20	46.4	39.91	6.35	2.5x2	106.8	5060	14839	2	98	162	140	18	118	11	17.5	11	30
45-25P1	45	25	46.6	39.299	7.144	3.5x1	75.7	4349	11622	2	101	141	143	18	121	11	17.5	11	30
50-20P1	50	20	51.4	44.91	6.35	3.5x1	81.7	3931	11645	2	101	122	143	18	121	11	17.5	11	40
50-20D2	50	20	51.4	44.91	6.35	2.5x2	114.6	5301	16486	2	101	162	143	18	121	11	17.5	11	40
50-25P1	50	25	51.6	44.299	7.144	3.5x1	82.1	4584	13008	2	103	141	145	18	123	11	17.5	11	40
50-30P1	50	30	51.6	44.299	7.144	3.5x1	84.2	4584	13008	2	103	160	145	18	123	11	17.5	11	40
55-20P1	55	20	56.4	49.91	6.35	3.5x1	88.9	4083	12746	2	103	122	145	18	123	11	17.5	11	40
55-20D2	55	20	56.4	49.91	6.35	2.5x2	124.9	5529	18133	2	103	162	145	18	123	11	17.5	11	40
55-25P1	55	25	56.6	49.299	7.144	3.5x1	90.7	4806	14393	2	105	141	147	18	125	11	17.5	11	40
55-30P1	55	30	56.6	49.299	7.144	3.5x1	90.6	4806	14393	2	105	160	147	18	125	11	17.5	11	40

Precision Ground Ball Screw Series

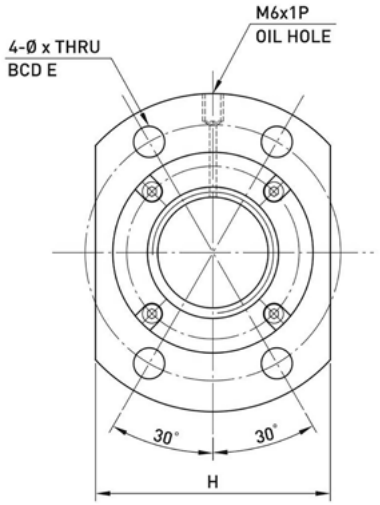
ST — OFSI type standart product

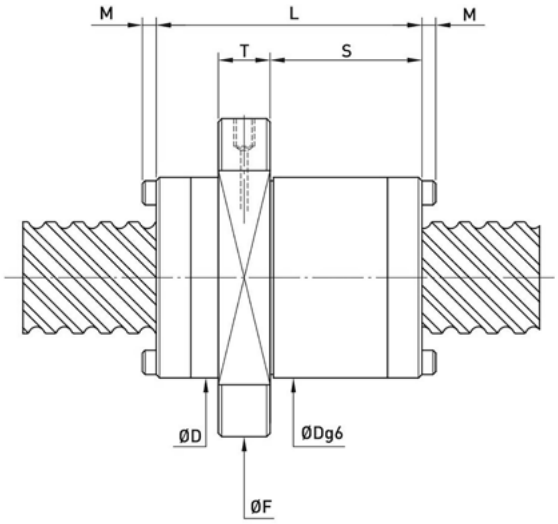


Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S
20-5K3	20	5	20.6	17.324	3.175	3	39	852	1767	34	67	57	12	45	5.5	9.5	5.5	24
20-6K3	20	6	20.8	16.744	3.969	3	39	1091	2081	36	77	60	12	48	5.5	9.5	5.5	24
25-5K3	25	5	25.6	22.324	3.175	3	55	977	2314	40	67	64	12	52	5.5	9.5	5.5	24
25-6K3	25	6	25.8	21.744	3.969	3	56	1272	2762	42	77	65	12	53	5.5	9.5	5.5	24
32-5K3	32	5	32.6	29.324	3.175	3	64	1117	3081	48	67	74	12	60	6.5	11	6.5	24
32-5K4	32	5	32.6	29.324	3.175	4	82	1431	4108	48	77	74	12	60	6.5	11	6.5	24
32-6K3	32	6	32.8	28.744	3.969	3	65	1446	3620	50	67	76	12	62	6.5	11	6.5	24
32-6K4	32	6	32.8	28.744	3.969	4	84	1852	4826	50	90	76	12	62	6.5	11	6.5	24
32-8K3	32	8	33	28.132	4.763	3	68	1810	4227	52	100	78	16	64	6.6	11	6.5	24
32-8K4	32	8	33	28.132	4.763	4	82	2317	5635	52	117	78	16	64	6.6	11	6.5	24
32-10K3	32	10	33.4	26.91	6.350	3	68	2539	5327	56	120	82	16	68	6.6	11	6.5	24
36-8K4	36	8	37	32.132	4.763	4	88	2531	6614	56	116	86	15	70	9	14	8.5	25
40-5K4	40	5	40.6	37.324	3.175	4	99	1599	5280	54	81	80	16	66	6.6	11	6.5	24
40-5K6	40	5	40.6	37.324	3.175	6	146	2265	7919	54	102	80	16	66	6.6	11	6.5	24
40-6K4	40	6	40.8	36.744	3.969	4	100	2136	6420	56	94	88	16	72	9	14	8.5	30
40-6K6	40	6	40.8	36.744	3.969	6	148	3028	9630	56	119	88	16	72	9	14	8.5	30
40-8K4	40	8	41	36.132	4.763	4	102	2728	7596	60	117	92	16	75	9	14	8.5	30
40-10K3	40	10	41.4	34.91	6.350	3	76	2959	7069	65	123	96	16	80	9	14	8.5	30
40-10K4	40	10	41.4	34.91	6.350	4	101	3789	9426	65	143	96	16	80	9	14	8.5	30
50-5K4	50	5	50.6	47.324	3.175	4	121	1757	6745	65	81	96	16	80	9	14	8.5	30
50-5K6	50	5	50.6	47.324	3.175	6	177	2490	10117	65	102	96	16	80	9	14	8.5	30
50-6K4	50	6	50.8	46.744	3.969	4	123	2388	8250	68	94	100	16	84	9	14	8.5	30
50-6K6	50	6	50.8	46.744	3.969	6	179	3384	12375	68	119	100	16	84	9	14	8.5	30
50-8K4	50	8	51	46.132	4.763	4	122	2998	9578	70	120	102	16	85	9	14	8.8	30
50-10K3	50	10	51.4	44.91	6.350	3	95	3397	9256	74	123	114	18	92	11	17.5	11	40
50-10K4	50	10	51.4	44.91	6.350	4	124	4350	12341	74	143	114	18	92	11	17.5	11	40
50-12K3	50	12	51.8	43.688	7.938	3	94	4420	11047	78	147	118	18	96	11	17.5	11	40
63-6K4	63	6	63.8	59.744	3.969	4	148	2614	10542	80	96	119	18	98	11	17.5	11	40
63-6K3	63	6	63.8	59.744	3.969	3	220	3704	15813	80	121	119	18	98	11	17.5	11	40
63-8K4	63	8	64	59.132	4.763	4	152	3395	12541	82	119	122	18	100	11	17.5	11	40
63-10K4	63	10	64.4	57.91	6.350	4	158	4860	15858	88	147	134	20	110	14	20	13	40
63-12K3	63	12	64.8	56.688	7.938	3	114	5059	14470	92	150	138	20	114	14	20	13	40

Precision Ground Ball Screw Series

ST — OFH type standart product

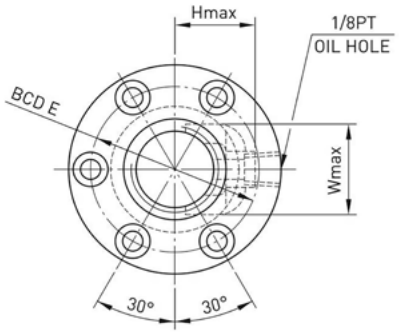


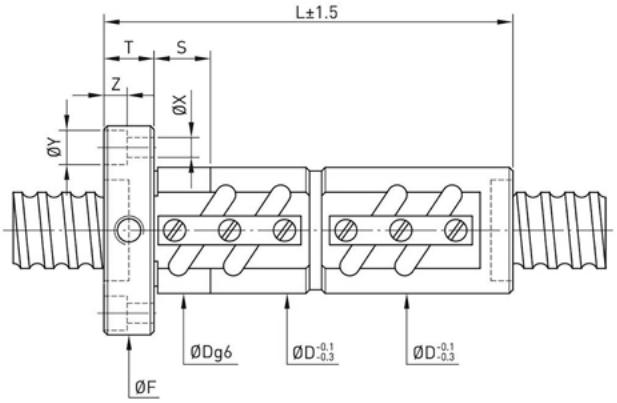


Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange				Bolt	Fit	
	Nominal Dia.	Lead								D	L	F	T	BCD-E	H	X	S	M
15-20F1	15	20	15.6	12.324	3.175	1.8x1	18	540	1030	34	45	55	10	45	36	5.5	24	0
16-16F2	16	16	16.6	13.324	3.175	1.8x2	35	1060	2280	32	48	53	10	42	38	4.5	26	0
16-16F4	16	16	16.6	13.324	3.175	1.8x4	68	1930	4560	32	48	53	10	42	38	4.5	26	0
16-16F2	16	16	16.6	13.324	3.175	1.8x2	35	1060	2280	33	48	58	10	45	38	6.6	26	0
16-16F4	16	16	16.6	13.324	3.175	1.8x4	68	1930	4560	33	48	58	10	45	38	6.6	26	0
20-20F2	20	20	20.6	17.324	3.175	1.8x2	42	1180	2860	39	48	62	10	50	46	5.5	27.5	0
20-20F2	20	20	20.6	17.324	3.175	1.8x2	42	1180	2860	38	58	62	10	50	46	5.5	32.5	3
20-20F4	20	20	20.6	17.324	3.175	1.8x4	81	2150	5720	38	58	62	10	50	46	5.5	32.5	3
25-25F2	25	25	25.8	21.744	3.969	1.8x2	53	1770	4470	47	67	74	12	60	56	6.6	39.5	3
25-25F4	25	25	25.8	21.744	3.969	1.8x4	105	3220	8940	47	67	74	12	60	56	6.6	39.5	3
32-32F2	32	32	33	28.132	4.763	1.8x2	66	2510	6770	58	85	92	15	74	68	9	48	0
32-32F4	32	32	33	28.132	4.763	1.8x4	128	4550	13540	58	85	74	15	74	68	9	48	0
40-40F2	40	40	41.4	34.91	6.350	1.8x2	82	4130	11450	72	102	114	17	93	84	11	60	0
40-40F4	40	40	41.4	34.91	6.350	1.8x4	159	7500	22910	72	102	114	17	93	84	11	60	0
50-50F2	50	50	51.8	43.688	7.938	1.8x2	100	6170	17900	90	125	135	20	112	104	14	83.5	0
50-50F4	50	50	51.8	43.688	7.938	1.8x4	193	11210	35800	90	125	135	20	112	104	14	83.5	0

Precision Ground Ball Screw Series

ST — FDV type standart product

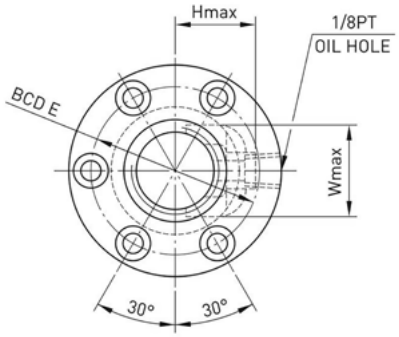


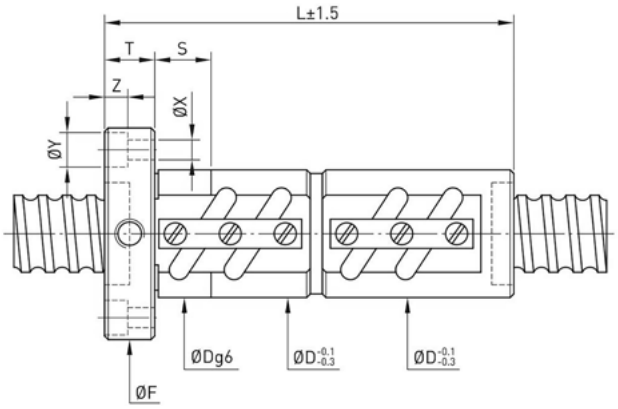


Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	W	H	X	Y	Z	S
16-5D1	16	5	16.6	13.324	3.175	2.5x1	32	763	1400	31	80	54	12	41	24	22	5.5	9.5	5.5	24
16-5D2	16	5	16.6	13.324	3.175	2.5x2	65	1385	2799	31	110	54	12	41	24	22	5.5	9.5	5.5	24
16-5P1	16	5	16.6	13.324	3.175	3.5x1	46	1013	1946	31	90	54	12	41	24	22	5.5	9.5	5.5	24
20-5D1	20	5	20.6	17.324	3.175	2.5x1	38	837	1733	35	80	58	12	46	27	25	5.5	9.5	5.5	24
20-5D2	20	5	20.6	17.324	3.175	2.5x2	76	1519	3465	35	110	58	12	46	27	25	5.5	9.5	5.5	24
20-6D1	20	6	20.8	16.744	3.969	2.5x1	40	1139	2187	36	92	60	12	47	28	27	5.5	9.5	5.5	24
20-6P1	20	6	20.8	16.744	3.969	3.5x1	55	1512	3041	36	104	60	12	47	28	27	5.5	9.5	5.5	24
25-5D1	25	5	25.6	22.324	3.175	2.5x1	46	939	2209	40	80	64	12	52	31	26	5.5	9.5	5.5	24
25-5D2	25	5	25.6	22.324	3.175	2.5x2	90	1704	4417	40	110	64	12	52	31	26	5.5	9.5	5.5	24
25-5P1	25	5	25.6	22.324	3.175	3.5x1	68	1252	3085	40	90	64	12	52	31	26	5.5	9.5	5.5	24
25-6D2	25	6	25.8	21.744	3.969	2.5x2	94	2308	5523	42	128	68	12	55	32	28	6.6	11	6.5	24
25-6P1	25	6	25.8	21.744	3.969	3.5x1	66	1690	3844	42	104	68	12	55	32	28	6.6	11	6.5	24
25-10D1	25	10	26	21.132	4.763	2.5x1	48	1592	3237	45	122	72	16	58	34	29	6.6	11	6.5	24
28-5D1	28	5	28.6	25.324	3.175	2.5x1	51	984	2466	44	80	70	12	56	34	28	6.6	11	6.5	24
28-5D2	28	5	28.6	25.324	3.175	2.5x2	98	1785	4932	44	110	70	12	56	34	28	6.6	11	6.5	24
28-6E2	28	6	28.6	25.324	3.175	1.5x2	59	1150	2960	44	110	70	12	56	34	28	6.6	11	6.5	24
28-8E2	28	8	29	24.132	4.763	1.5x2	62	1960	4348	50	110	75	12	61	38	32	6.6	11	6.5	15
28-10D2	28	10	29	24.132	4.763	2.5x2	102	3060	7299	54	177	94	15	74	37	32	9	14	8.5	30
32-5D1	32	5	32.6	29.324	3.175	2.5x1	55	1039	2833	50	80	76	12	63	38	30	6.6	11	6.5	24
32-5D2	32	5	32.6	29.324	3.175	2.5x2	109	1886	5666	50	110	76	12	63	38	30	6.6	11	6.5	24
32-5P1	32	5	32.6	29.324	3.175	3.5x1	76	1388	3967	50	90	76	12	63	38	30	6.6	11	6.5	24
32-6D1	32	6	32.8	28.744	3.969	2.5x1	57	1409	3510	52	92	78	12	65	39	32	6.6	11	6.5	24
32-6D2	32	6	32.8	28.744	3.969	2.5x2	112	2556	7020	52	128	78	12	65	39	32	6.6	11	6.5	24
32-6P1	32	6	32.8	28.744	3.969	3.5x1	78	1888	4936	52	104	78	12	65	39	32	6.6	11	6.5	24
32-8D1	32	8	33	28.132	4.763	2.5x1	58	1810	4227	54	110	88	16	70	40	33	9	14	8.5	30
32-8D2	32	8	33	28.132	4.763	2.5x2	115	3284	8453	54	158	88	16	70	40	33	9	14	8.5	30
32-8P1	32	8	33	28.132	4.763	3.5x1	82	2428	5948	54	126	88	16	70	40	33	9	14	8.5	30
32-10D1	32	10	33.4	26.91	6.350	2.5x1	58	2651	5600	57	122	91	16	73	44	37	9	14	8.5	30
32-10D2	32	10	33.4	26.91	6.350	2.5x2	118	4810	11199	57	182	91	16	73	44	37	9	14	8.5	30
32-10P1	32	10	33.4	26.91	6.350	3.5x1	86	3519	7785	57	142	91	16	73	44	37	9	14	8.5	30
32-12E2	32	12	33.4	26.91	6.350	1.5x2	72	3035	6555	62	180	108	16	86	44	38	9	14	8.5	15
32-12D1	32	12	33.4	26.91	6.350	2.5x1	62	2650	5599	62	138	108	16	86	44	38	9	14	8.5	20
32-16E2	32	16	33.4	26.91	6.350	1.5x2	72	3035	6555	62	180	108	16	86	44	38	9	14	8.5	20
36-6D1	36	6	36.8	32.744	3.969	2.5x1	62	1486	3969	55	92	82	12	68	42	32	6.6	11	6.5	24
36-6D2	36	6	36.8	32.744	3.969	2.5x2	121	2696	7937	55	128	82	12	68	42	32	6.6	11	6.5	24
36-10D2	36	10	37.4	30.91	6.350	2.5x2	132	5105	12669	62	184	104	18	82	49	40	11	17.5	11	30

Precision Ground Ball Screw Series

ST — FDV type standart product

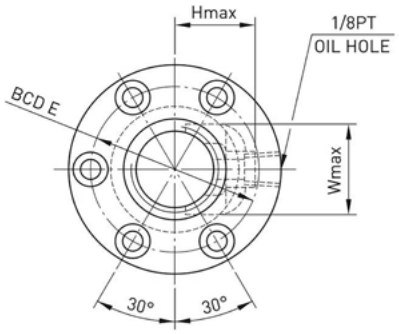


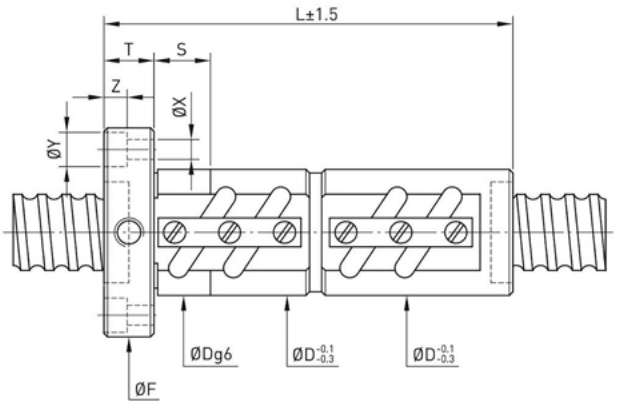


Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	W	H	X	Y	Z	S
40-5D1	40	5	40.6	37.324	3.175	2.5x1	65	1141	3567	58	84	92	16	72	46	34	9	14	8.5	30
40-5D2	40	5	40.6	37.324	3.175	2.5x2	132	2071	7134	58	114	92	16	72	46	34	9	14	8.5	30
40-6D2	40	6	40.8	36.744	3.969	2.5x2	136	2817	8855	60	132	94	16	76	47	36	9	14	8.5	30
40-8D1	40	8	41	36.132	4.763	2.5x1	69	2003	5302	62	110	96	16	78	48	38	9	14	8.5	30
40-8D2	40	8	41	36.132	4.763	2.5x2	137	3634	10603	62	158	96	16	78	48	38	9	14	8.5	30
40-8P1	40	8	41	36.132	4.763	3.5x1	96	2679	7438	62	126	96	16	78	48	38	9	14	8.5	30
40-10E1	40	10	41.4	34.91	6.350	2.5x1	72	2959	7069	65	132	106	18	85	52	42	11	17.5	11	30
40-10D2	40	10	41.4	34.91	6.350	2.5x2	145	5370	14138	65	192	106	18	85	52	42	11	17.5	11	30
40-10P1	40	10	41.4	34.91	6.350	3.5x1	102	3932	9841	65	152	106	18	85	52	42	11	17.5	11	30
40-12E2	40	12	41.4	34.91	6.350	1.5x2	88	3402	8316	65	160	106	18	84	52	42	11	17.5	11	20
40-12D1	40	12	41.6	34.299	7.144	2.5x1	70	3425	7837	70	153	112	18	90	55	43	11	17.5	11	40
40-12D2	40	12	41.6	34.299	7.144	2.5x2	141	6217	15674	70	225	112	18	90	55	43	11	17.5	11	40
40-12P1	40	12	41.6	34.299	7.144	3.5x1	103	3932	9841	65	158	106	18	85	52	42	11	17.5	11	30
40-16E2	40	16	41.6	34.299	7.144	1.5x2	88	4006	9404	75	209	117	18	95	53	43	11	17.5	11	40
40-16D1	40	16	41.6	34.299	7.144	2.5x1	118	3425	7837	75	153	117	18	95	53	43	11	17.5	11	40
40-20E1	40	20	41.4	34.91	6.350	1.5x1	44	1874	4158	65	152	106	18	85	52	42	11	17.5	11	30
45-10D1	45	10	46.4	39.91	6.350	2.5x1	76	3116	7953	70	134	112	18	90	58	48	11	17.5	11	30
45-10D2	45	10	46.4	39.91	6.350	2.5x2	156	5655	15905	70	194	112	18	90	58	48	11	17.5	11	30
45-12D2	45	12	46.8	38.688	7.938	2.5x2	162	7627	19799	74	230	122	22	97	60	49	13	20	13	40
50-5E2	50	5	50.6	47.324	3.175	1.5x2	96	1447	5382	70	107	104	16	86	56	40	9	14	8.5	30
50-5E3	50	5	50.6	47.324	3.175	1.5x3	143	2051	8072	70	127	104	16	86	56	40	9	14	8.5	30
50-5D2	50	5	50.6	47.324	3.175	2.5x2	153	2245	8969	70	116	104	16	86	56	40	9	14	8.5	30
50-6D2	50	6	50.8	46.744	3.969	2.5x2	161	3093	11149	72	134	106	16	88	57	43	9	14	8.5	30
50-6D3	50	6	50.8	46.744	3.969	2.5x3	235	4384	16723	72	170	106	16	88	57	43	9	14	8.5	30
50-8D1	50	8	51	46.132	4.763	2.5x1	81	2206	6705	75	112	116	18	95	58	45	11	17.5	11	30
50-8D2	50	8	51	46.132	4.763	2.5x2	165	4004	13409	75	160	116	18	95	58	45	11	17.5	11	30
50-8D3	50	8	51	46.132	4.763	2.5x3	244	5674	20114	75	208	116	18	95	58	45	11	17.5	11	30
50-10D2	50	10	51.4	44.91	6.350	2.5x2	173	5923	17670	78	194	119	18	98	62	48	11	17.5	11	30
50-10D3	50	10	51.4	44.91	6.350	2.5x3	255	8394	26505	78	254	119	18	98	62	48	11	17.5	11	30
50-10P1	50	10	51.4	44.91	6.350	3.5x1	120	4393	12481	78	154	119	18	98	62	48	11	17.5	11	30
50-12D2	50	12	51.8	43.688	7.938	2.5x2	178	8022	22094	82	232	130	22	105	64	52	13	20	13	40
50-12P1	50	12	51.8	43.688	7.938	3.5x1	123	5875	15380	82	184	130	22	105	64	52	13	20	13	40
55-10P1	55	10	56.4	49.91	6.350	3.5x1	132	4562	13661	84	154	125	18	103	68	54	11	17.5	11	40
55-12D2	55	12	56.8	48.688	7.938	2.5x2	185	8392	24390	88	232	136	22	110	70	56	13	20	13	40

Precision Ground Ball Screw Series

ST — FDV type standart product

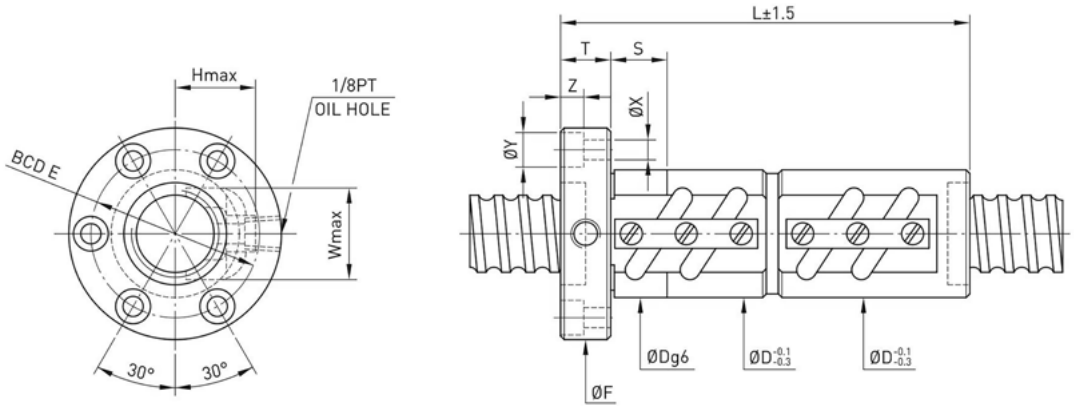




Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	W	H	X	Y	Z	S
63-8E2	63	8	64	59.132	4.763	1.5x2	107	2826	10129	87	142	129	18	107	70	50	11	17.5	11	40
63-8E3	63	8	64	59.132	4.763	1.5x3	154	4004	15193	87	171	129	18	107	70	50	11	17.5	11	40
63-10D2	63	10	64.4	57.91	6.350	2.5x2	206	6533	22371	90	196	132	20	110	74	56	11	17.5	11	30
63-10D3	63	10	64.4	57.91	6.350	2.5x3	305	9258	33556	90	256	132	20	110	74	56	11	17.5	11	30
63-12D2	63	12	64.8	56.688	7.938	2.5x2	214	8943	28062	94	232	142	22	117	76	57	13	20	13	40
63-16D2	63	16	65.2	55.466	9.525	2.5x2	280	14862	46009	100	296	150	22	123	78	62	13	20	13	40
63-20D2	63	20	65.2	55.466	9.525	2.5x2	280	14862	46009	100	334	150	22	123	78	62	13	20	13	40
70-10D2	70	10	71.4	64.91	6.350	2.5x2	228	6843	25011	104	196	152	20	128	80	56	13	20	13	40
70-10D3	70	10	71.4	64.91	6.350	2.5x3	334	9698	37516	104	256	152	20	128	80	56	13	20	13	40
70-12D2	70	12	71.8	63.688	7.938	2.5x2	236	9382	31275	110	232	159	22	133	82	58	13	20	13	40
70-12D3	70	12	71.8	63.688	7.938	2.5x3	336	13296	46912	110	302	159	22	133	82	58	13	20	13	40
80-10D2	80	10	81.4	74.91	6.350	2.5x2	251	7202	28538	115	200	163	22	137	90	64	13	20	13	40
80-10D3	80	10	81.4	74.91	6.350	2.5x3	368	10207	42807	115	260	163	22	137	90	64	13	20	13	40
80-12D2	80	12	81.8	73.688	7.938	2.5x2	257	9797	35422	120	232	169	22	143	92	67	13	20	13	40
80-12D3	80	12	81.8	73.688	7.938	2.5x3	380	13884	53132	120	302	169	22	143	92	67	13	20	13	40
80-16D2	80	16	82.2	72.466	9.525	2.5x2	340	16485	58851	125	302	190	28	154	94	70	18	26	17.5	50
80-16D3	80	16	82.2	72.466	9.525	2.5x3	498	23363	88276	125	398	190	28	154	94	70	18	26	17.5	50
80-20D2	80	20	82.2	72.466	9.525	2.5x2	338	16485	58851	125	345	190	28	154	94	70	18	26	17.5	50
80-20D3	80	20	82.2	72.466	9.525	2.5x3	498	23363	88276	125	470	190	28	154	94	70	18	26	17.5	50
100-12D2	100	12	101.8	93.688	7.938	2.5x2	301	10761	44596	145	240	209	28	173	112	76	18	26	17.5	50
100-12D3	100	12	101.8	93.688	7.938	2.5x3	452	15251	66894	145	312	209	28	173	112	76	18	26	17.5	50
100-16D2	100	16	102.2	92.466	9.525	2.5x2	400	18125	74425	150	308	228	32	185	114	80	22	32	21.5	60
100-16D3	100	16	102.2	92.466	9.525	2.5x3	595	25684	111637	150	404	228	32	185	114	80	22	32	21.5	60
100-20D2	100	20	102.2	92.466	9.525	2.5x2	400	18123	74425	150	350	228	32	185	114	80	22	32	21.5	60
100-20D3	100	20	102.2	92.466	9.525	2.5x3	595	25684	111637	150	475	228	32	185	114	80	22	32	21.5	60

Precision Ground Ball Screw Series

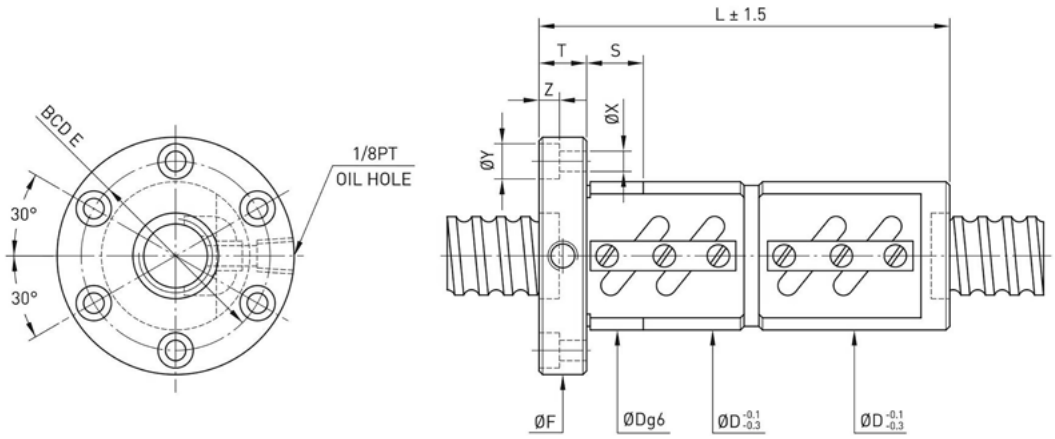
ST — FDW type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S
16-5D2	16	5	16.6	13.324	3.175	2.5x2	65	1385	2799	40	110	64	12	51	5.5	9.5	5.5	24
16-5D1	16	5	16.6	13.324	3.175	2.5x1	32	763	1400	40	80	64	12	51	5.5	9.5	5.5	24
16-5P1	16	5	16.6	13.324	3.175	3.5x1	46	1013	1946	40	90	64	12	51	5.5	9.5	5.5	24
20-5D1	20	5	20.6	17.324	3.175	2.5x1	38	837	1733	44	80	68	12	55	5.5	9.5	5.5	24
20-5D2	20	5	20.6	17.324	3.175	2.5x2	76	1519	3465	44	110	68	12	55	5.5	9.5	5.5	24
20-6D1	20	6	20.8	16.744	3.969	2.5x1	40	1139	2187	48	92	72	12	59	5.5	9.5	5.5	24
20-6P1	20	6	20.8	16.744	3.969	3.5x1	55	1512	3041	48	104	72	12	59	5.5	9.5	5.5	24
25-5E2	25	5	25.6	22.324	3.175	1.5x2	54	1092	2622	50	102	73	12	61	5.5	9.5	5.5	24
25-5D1	25	5	25.6	22.324	3.175	2.5x1	46	939	2209	50	80	74	12	62	5.5	9.5	5.5	24
25-5D2	25	5	25.6	22.324	3.175	2.5x2	90	1704	4417	50	110	74	12	62	5.5	9.5	5.5	24
25-5P1	25	5	25.6	22.324	3.175	3.5x1	68	1252	3085	50	90	74	12	62	5.5	9.5	5.5	24
25-6D2	25	6	25.8	21.744	3.969	2.5x2	94	2304	5524	56	128	82	12	69	6.6	11	6.5	24
25-6P1	25	6	25.8	21.744	3.969	3.5x1	66	1690	3844	56	104	82	12	69	6.6	11	6.5	24
25-10D1	25	10	26	21.132	4.763	2.5x1	48	1592	3237	60	122	86	16	73	6.6	11	6.5	24
28-5D1	28	5	28.6	25.324	3.175	2.5x1	51	984	2466	55	80	85	12	69	6.6	11	6.5	24
28-5D2	28	5	28.6	25.324	3.175	2.5x2	98	1785	4932	55	110	85	12	69	6.6	11	6.5	24
28-6E2	28	6	28.6	25.324	3.175	1.5x2	59	1150	2960	55	110	85	12	69	6.6	11	6.5	24
28-6D2	28	6	28.6	25.324	3.175	2.5x2	98	1776	4980	55	123	85	12	69	6.6	11	6.5	24
32-4D2	32	4	32.25	29.792	2.381	2.5x2	91	1071	3582	54	93	81	12	67	6.6	11	6.5	24
32-5D1	32	5	32.6	29.324	3.175	2.5x1	55	1039	2833	58	80	84	12	71	6.6	11	6.5	24
32-5D2	32	5	32.6	29.324	3.175	2.5x2	109	1886	5666	58	110	84	12	71	6.6	11	6.5	24
32-5P1	32	5	32.6	29.324	3.175	3.5x1	76	1388	3967	58	90	84	12	71	6.6	11	6.5	24
32-6D1	32	6	32.8	28.744	3.969	2.5x1	57	1409	3510	62	92	88	12	75	6.6	11	6.5	24
32-6D2	32	6	32.8	28.744	3.969	2.5x2	112	2556	7020	62	128	88	12	75	6.6	11	6.5	24
32-6P1	32	6	32.8	28.744	3.969	3.5x1	78	1888	4936	62	104	88	12	75	6.6	11	6.5	24
32-8E2	32	8	33	28.132	4.763	1.5x2	70	2082	5151	66	135	100	15	82	9	14	8.5	30
32-8D1	32	8	33	28.132	4.763	2.5x1	58	1810	4227	66	110	100	16	82	9	14	8.5	30
32-8D2	32	8	33	28.132	4.763	2.5x2	115	3284	8453	66	158	100	16	82	9	14	8.5	30
32-8D3	32	8	33	28.132	4.763	2.5x3	168	4653	12678	74	205	108	16	90	9	14	8.5	30
32-8P1	32	8	33	28.132	4.763	3.5x1	82	2428	5948	66	126	100	16	82	9	14	8.5	30
32-10E2	32	10	33.4	26.91	6.350	1.5x2	72	3051	6612	74	167	108	15	90	9	14	8.5	30
32-10D1	32	10	33.4	26.91	6.350	2.5x1	58	2651	5600	74	122	108	16	90	9	14	8.5	30
32-10D2	32	10	33.4	26.91	6.350	2.5x2	118	4810	11199	74	182	108	16	90	9	14	8.5	30
32-10P1	32	10	33.4	26.91	6.350	3.5x1	86	3519	7785	74	142	108	16	90	9	14	8.5	30
32-12D1	32	12	33.4	26.91	6.350	2.5x1	62	2602	5510	74	153	108	18	90	9	14	8.5	30
32-12D2	32	12	33.4	26.91	6.350	2.5x2	118	4810	11199	74	232	108	16	90	9	14	8.5	30
32-12P1	32	12	33.4	26.91	6.350	3.5x1	84	3518	7784	74	166	108	16	90	9	14	8.5	30

Precision Ground Ball Screw Series

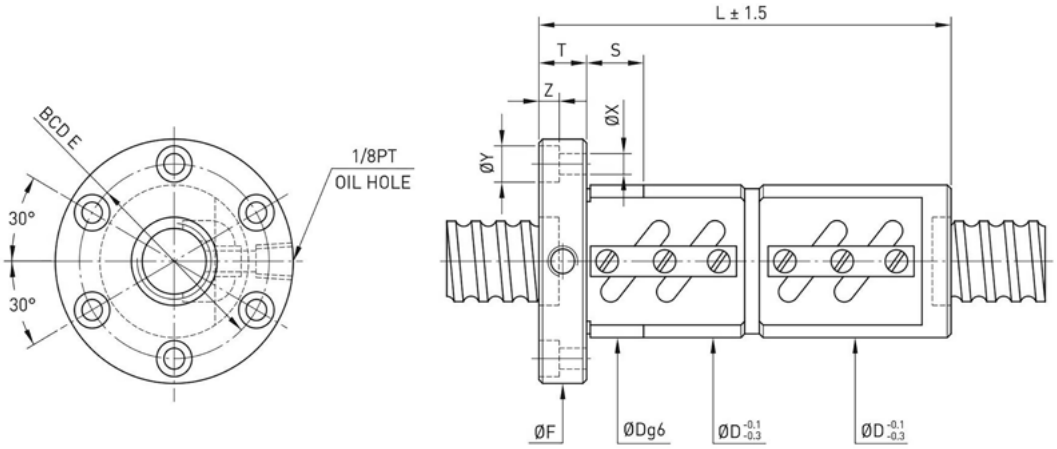
ST — FDW type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S
36-6D1	36	6	36.8	32.744	3.969	2.5x1	62	1486	3969	65	92	100	12	82	6.6	11	6.5	24
36-6D2	36	6	36.8	32.744	3.969	2.5x2	121	2696	7937	65	128	100	12	82	6.6	11	6.5	24
36-12E2	36	12	37	32.132	4.763	1.5x2	80	2557	6693	70	155	108	15	90	9	14	8.5	30
36-12D1	36	12	37.4	30.91	6.350	2.5x1	67	2812	6334	75	126	120	16	98	11	17.5	11	30
36-10D2	36	10	37.4	30.91	6.350	2.5x2	132	5105	12669	75	184	120	18	98	11	17.5	11	30
36-12D2	36	12	37.4	30.91	6.350	2.5x2	130	5105	12668	75	206	120	18	98	11	17.5	11	30
36-8E2	36	8	37	32.132	4.763	1.5x2	77	2217	5669	70	135	108	15	90	9	14	8.5	30
36-8D2	36	8	37	32.132	4.763	2.5x2	126	3489	9606	70	158	108	15	90	9	14	8.5	30
40-5D1	40	5	40.6	37.324	3.175	2.5x1	65	1141	3567	68	84	102	16	84	9	14	8.5	~
40-5D2	40	5	40.6	37.324	3.175	2.5x2	132	2071	7134	68	114	102	16	84	9	14	8.5	30
40-6D2	40	6	40.8	36.744	3.969	2.5x2	136	2817	8855	70	132	104	16	86	9	14	8.5	30
40-8D1	40	8	41	36.132	4.763	2.5x1	69	2003	5302	74	110	108	16	90	9	14	8.5	30
40-8D2	40	8	41	36.132	4.763	2.5x2	137	3634	10603	74	158	108	16	90	9	14	8.5	30
40-8D3	40	8	41	36.132	4.763	2.5x3	200	5150	15904	74	210	108	15	90	9	14	8.5	30
40-8P1	40	8	41	36.132	4.763	3.5x1	96	2679	7438	74	126	108	16	90	9	14	8.5	30
40-10E2	40	10	41.4	34.91	6.350	1.5x2	87	3418	8398	82	170	124	18	102	11	17.5	11	30
40-10D1	40	10	41.4	34.91	6.350	2.5x1	72	2959	7069	84	132	125	18	104	11	17.5	11	30
40-10D2	40	10	41.4	34.91	6.350	2.5x2	145	5370	14138	84	192	125	18	104	11	17.5	11	30
40-10P1	40	10	41.4	34.91	6.350	3.5x1	102	3932	9841	84	152	125	18	104	11	17.5	11	30
40-12E2	40	12	41.6	34.299	7.144	1.5x2	88	4006	9404	86	160	128	18	106	11	17.5	11	30
40-12D1	40	12	41.6	34.299	7.144	2.5x1	70	3425	7837	86	153	128	18	106	11	17.5	11	40
40-12D2	40	12	41.6	34.299	7.144	2.5x2	141	6217	15674	86	225	128	18	106	11	17.5	11	40
40-12P1	40	12	41.6	34.299	7.144	3.5x1	103	4637	11146	86	179	128	18	106	11	17.5	11	30
40-16E2	40	16	41.6	34.299	7.144	1.5x2	83	4007	9405	86	214	128	18	106	11	17.5	11	40
40-16D1	40	16	41.6	34.299	7.144	2.5x1	72	3425	7837	86	182	128	18	106	11	17.5	11	40
40-16D2	40	16	41.6	34.299	7.144	2.5x2	143	6216	15674	86	272	128	22	106	11	17.5	11	30
45-10D1	45	10	46.4	39.91	6.350	2.5x1	76	3111	7953	88	134	132	18	110	11	17.5	11	30
45-10D2	45	10	46.4	39.91	6.350	2.5x2	156	5655	15905	88	194	132	18	110	11	17.5	11	30
45-12D2	45	12	46.8	38.688	7.938	2.5x2	162	7627	19799	96	230	142	22	117	13	20	13	40
45-16D2	45	16	46.6	39.299	7.144	2.5x2	158	6636	17895	90	278	132	18	110	11	17.5	11	30
50-5E2	50	5	50.6	47.324	3.175	1.5x2	96	1447	5382	80	107	114	16	96	9	14	8.5	30
50-5E3	50	5	50.6	47.324	3.175	1.5x3	143	2051	8072	80	127	114	16	96	9	14	8.5	30
50-6D2	50	6	50.8	46.744	3.969	2.5x2	161	3093	11149	84	134	118	16	100	9	14	8.5	30
50-6D3	50	6	50.8	46.744	3.969	2.5x3	235	4384	16723	84	170	118	16	100	9	14	8.5	30
50-8D1	50	8	51	46.132	4.763	2.5x1	81	2206	6705	87	112	128	18	107	11	17.5	11	30
50-8D2	50	8	51	46.132	4.763	2.5x2	165	4004	13409	87	160	128	18	107	11	17.5	11	30
50-8D3	50	8	51	46.132	4.763	2.5x3	244	5674	20114	87	208	128	18	107	11	17.5	11	30
50-10D1	50	10	51.4	44.91	6.350	2.5x1	88	3245	8918	93	133	135	18	113	11	17.5	11	30

Precision Ground Ball Screw Series

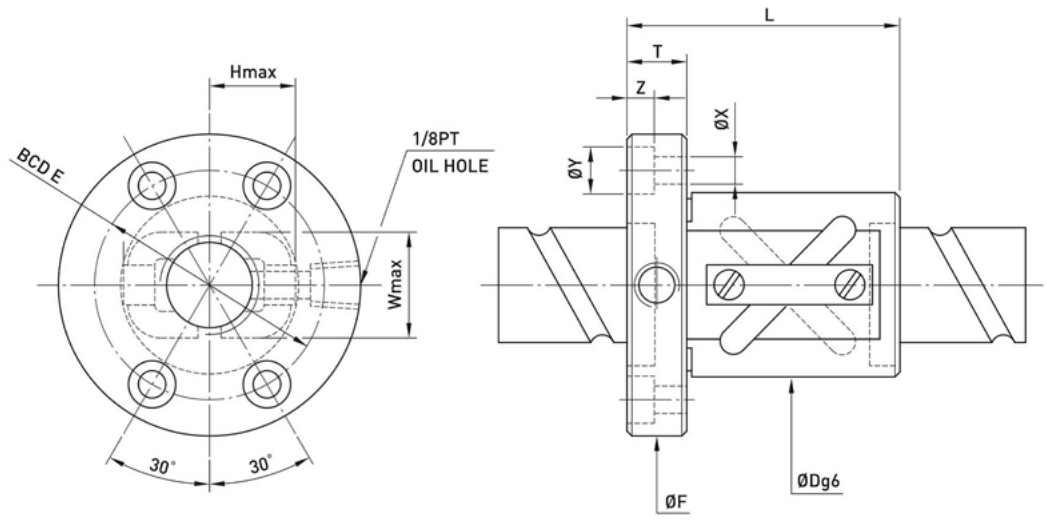
ST — FDW type standart product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S
50-10D2	50	10	51.4	44.91	6.350	2.5x2	173	5923	17670	94	194	135	18	114	11	17.5	11	30
50-10D3	50	10	51.4	44.91	6.350	2.5x3	255	8394	26505	94	254	135	18	114	11	17.5	11	30
50-10P1	50	10	51.4	44.91	6.350	3.5x1	120	4393	12481	94	154	135	18	114	11	17.5	11	30
50-12D1	50	12	51.8	43.688	7.938	2.5x1	90	4367	10918	100	159	146	22	122	14	20	13	40
50-12D2	50	12	51.8	43.688	7.938	2.5x2	178	8022	22094	102	232	150	22	125	13	20	13	40
50-12P1	50	12	51.8	43.688	7.938	3.5x1	123	5875	15380	102	184	150	22	125	13	20	13	40
50-16D2	50	16	51.8	43.688	7.938	2.5x2	174	7918	21837	100	280	146	22	122	14	20	13	40
50-20D1	50	20	51.8	43.688	7.938	2.5x1	90	4367	10918	100	227	146	28	122	14	20	13	40
55-10P1	55	10	56.4	49.91	6.350	3.5x1	132	4562	13661	100	154	140	18	118	11	17.5	11	40
55-12D2	55	12	56.8	48.688	7.938	2.5x2	185	8392	24390	105	232	154	22	127	13	20	13	40
63-8E2	63	8	64	59.132	4.763	1.5x2	107	2826	10129	104	142	146	18	124	11	17.5	11	40
63-8E3	63	8	64	59.132	4.763	1.5x3	154	4004	15193	104	174	146	18	124	11	17.5	11	40
63-10D2	63	10	64.4	57.91	6.350	2.5x2	206	6533	22371	110	196	152	20	130	11	17.5	11	30
63-10D3	63	10	64.4	57.91	6.350	2.5x3	305	9258	33556	110	256	152	20	130	11	17.5	11	30
63-12D2	63	12	64.8	56.688	7.938	2.5x2	214	8943	28062	118	232	166	22	141	13	20	13	40
63-16D2	63	16	65.2	55.466	9.525	2.5x2	280	14862	46009	124	296	172	22	147	13	20	13	40
63-20D2	63	20	65.2	55.466	9.525	2.5x2	280	14862	46009	124	334	172	22	147	13	20	13	40
70-10D2	70	10	71.4	64.91	6.350	2.5x2	228	6843	25011	124	196	170	20	145	13	20	13	40
70-10D3	70	10	71.4	64.91	6.350	2.5x3	334	9698	37516	124	256	170	20	145	13	20	13	40
70-12D2	70	12	71.8	63.688	7.938	2.5x2	236	9382	31275	130	232	178	22	152	13	20	13	40
70-12D3	70	12	71.8	63.688	7.938	2.5x3	336	13296	46912	130	302	178	22	152	13	20	13	40
70-20D2	70	20	72.2	62.466	9.525	2.5x2	300	15644	51502	130	325	186	28	158	18	26	17.5	60
80-10D2	80	10	81.4	74.91	6.350	2.5x2	251	7202	28538	130	200	178	22	152	13	20	13	40
80-10D3	80	10	81.4	74.91	6.350	2.5x3	368	10207	42807	130	260	178	22	152	13	20	13	40
80-12D2	80	12	81.8	73.688	7.938	2.5x2	257	9797	35422	136	232	185	22	159	13	20	13	40
80-12D3	80	12	81.8	73.688	7.938	2.5x3	380	13884	53132	136	302	185	22	159	13	20	13	40
80-16D2	80	16	82.2	72.466	9.525	2.5x2	340	16485	58851	145	302	210	28	174	18	26	17.5	50
80-16D3	80	16	82.2	72.466	9.525	2.5x3	498	23363	88276	145	398	210	28	174	18	26	17.5	50
80-20D2	80	20	82.2	72.466	9.525	2.5x2	338	16485	58851	145	345	210	28	174	18	26	17.5	50
80-20D3	80	20	82.2	72.466	9.525	2.5x3	498	23363	88276	145	470	210	28	174	18	26	17.5	50
100-12D2	100	12	101.8	93.688	7.938	2.5x2	301	10761	44596	160	240	224	28	188	18	26	17.5	50
100-12D3	100	12	101.8	93.688	7.938	2.5x3	452	15251	66894	160	312	224	28	188	18	26	17.5	50
100-16D2	100	16	102.2	92.466	9.525	2.5x2	400	18123	74425	170	308	248	32	205	22	32	21.5	60
100-16D3	100	16	102.2	92.466	9.525	2.5x3	595	25684	111637	170	404	248	32	205	22	32	21.5	60
100-20D2	100	20	102.2	92.466	9.525	2.5x2	400	18123	74425	170	350	248	32	205	22	32	21.5	60
100-20D3	100	20	102.2	92.466	9.525	2.5x3	595	25684	111637	170	475	248	32	205	22	32	21.5	60

Precision Ground Ball Screw Series

ST — DFSV type high lead

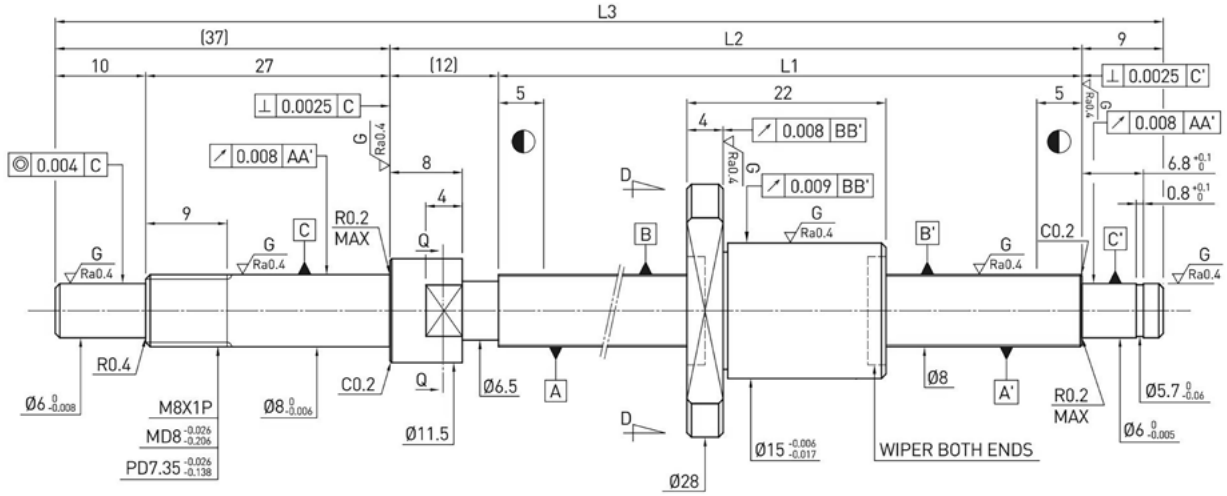


Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange			Return Tube		Bolt		
	Nominal Dia.	Lead								D	L	F	T	BCD-E	W	H	X	Y	Z
16-16E2	16	16	16.6	13.324	3.175	1.5x2	17.9	704	1376	32	60	55	12	43	22	22	5.5	9.5	5.5
20-20E2	20	20	20.6	17.324	3.175	1.5x2	21.4	793	1745	36	69	60	12	47	28	27	5.5	9.5	5.5
25-25E2	25	25	25.8	21.744	3.969	1.5x2	28.3	1174	2730	42	69	70	12	55	32	28	6.6	11	6.5
32-32E2	32	32	33	28.132	4.763	1.5x2	35	1682	4208	54	94	100	15	80	40	37	9	14	8.5
40-40E2	40	40	41.4	34.91	6.350	1.5x2	43.8	2806	7222	65	115	106	18	85	52	42	11	17.5	11

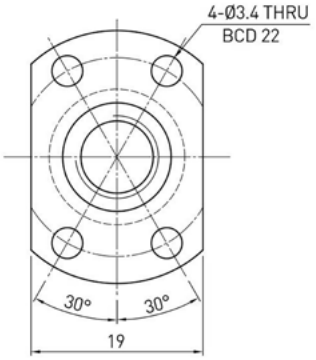
Precision Ground Ball Screw Series

4.3 Miniature Ground Ballscrew

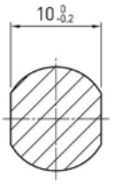
ST — FSI type (SHAFT OD 6, LEAD 1) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	1.5	
Lead Angle	3.37°	
P.C.D (mm)	8.1	
RD (mm)	7.050	
Steel Ball (mm)	Ø1	
Circuits	1x3	
Dynamic Load C (kgf)	105	
Static Load Co (kgf)	191	
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.2 MAX	0.05 MAX
Spacer Ball	-	-



D-D VIEW



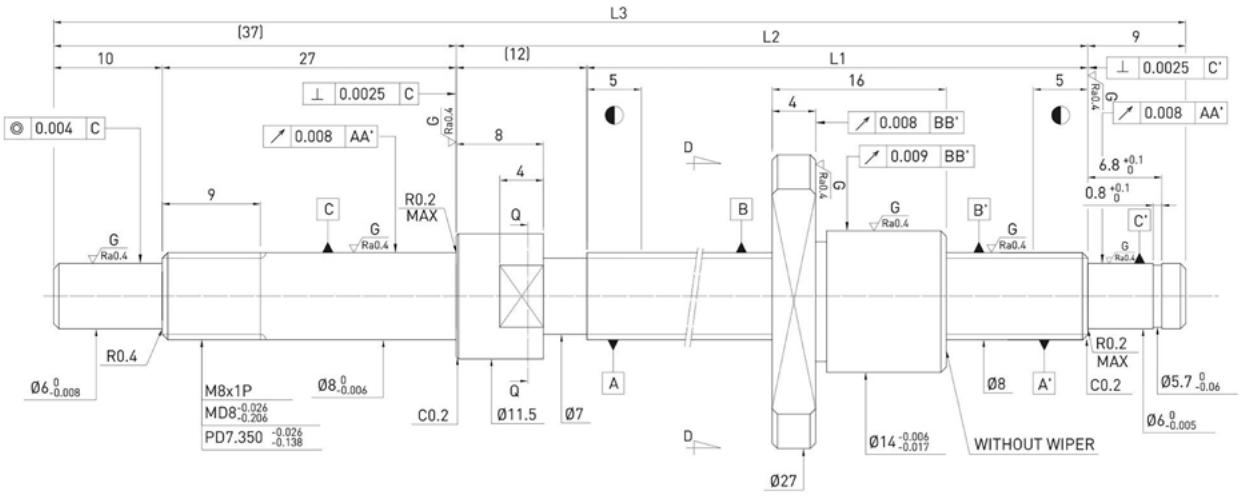
Q-Q SECTION

Unit : mm

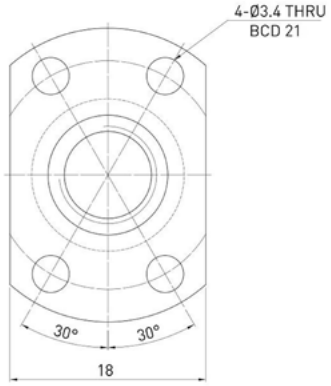
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
40	R8-1.5T3-FSI-80-138-0.008	80	92	138	C3
70	R8-1.5T3-FSI-110-168-0.008	110	122	168	C3
100	R8-1.5T3-FSI-140-198-0.008	140	152	198	C3
150	R8-1.5T3-FSI-190-248-0.008	190	202	248	C3

Precision Ground Ball Screw Series

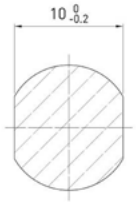
ST — FSI type (SHAFT OD 8, LEAD 1) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	1.0	
Lead Angle	2.25°	
P.C.D (mm)	8.1	
RD (mm)	7.261	
Steel Ball (mm)	Ø0.8	
Circuits	1x3	
Dynamic Load C (kgf)	79	
Static Load Co (kgf)	157	
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.18 MAX	0.05 MAX
Spacer Ball	-	-



D-D VIEW



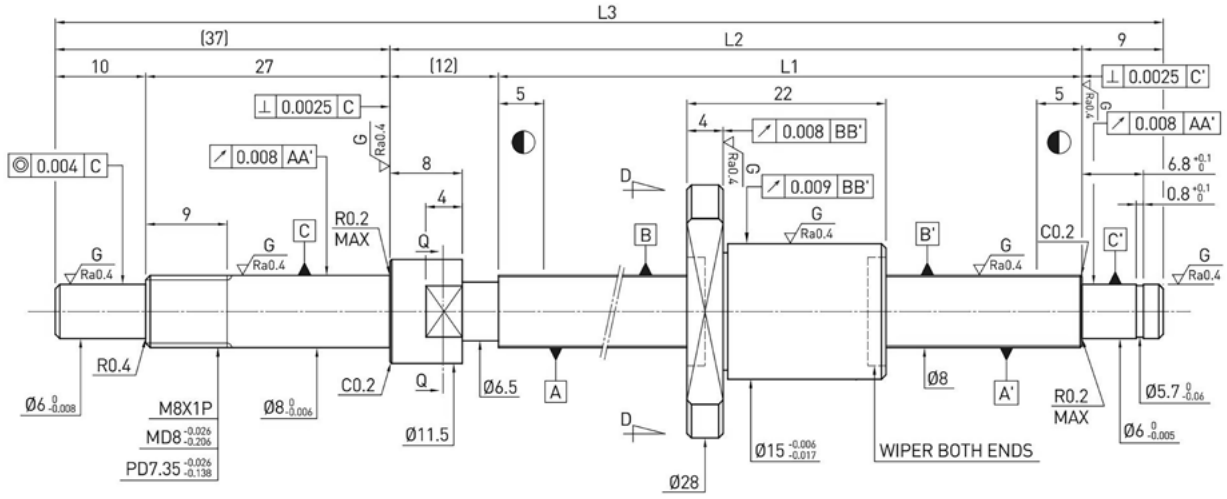
Q-Q SECTION

Unit : mm

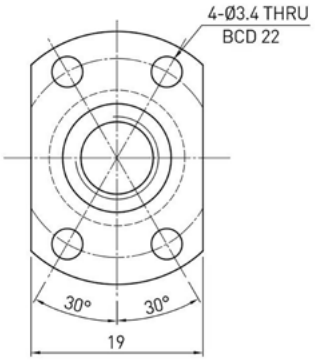
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
40	R8-1.0T3-FSI-80-138-0.008	80	92	138	C3
70	R8-1.0T3-FSI-110-168-0.008	110	122	168	C3
100	R8-1.0T3-FSI-140-198-0.008	140	152	198	C3
150	R8-1.0T3-FSI-190-248-0.008	190	202	248	C3

Precision Ground Ball Screw Series

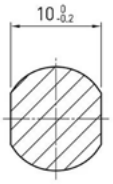
ST — FSI type (SHAFT OD 8, LEAD 1,5) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	1.5	
Lead Angle	3.37°	
P.C.D (mm)	8.1	
RD (mm)	7.050	
Steel Ball (mm)	Ø1	
Circuits	1x3	
Dynamic Load C (kgf)	105	
Static Load Co (kgf)	191	
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.2 MAX	0.05 MAX
Spacer Ball	-	-



D-D VIEW



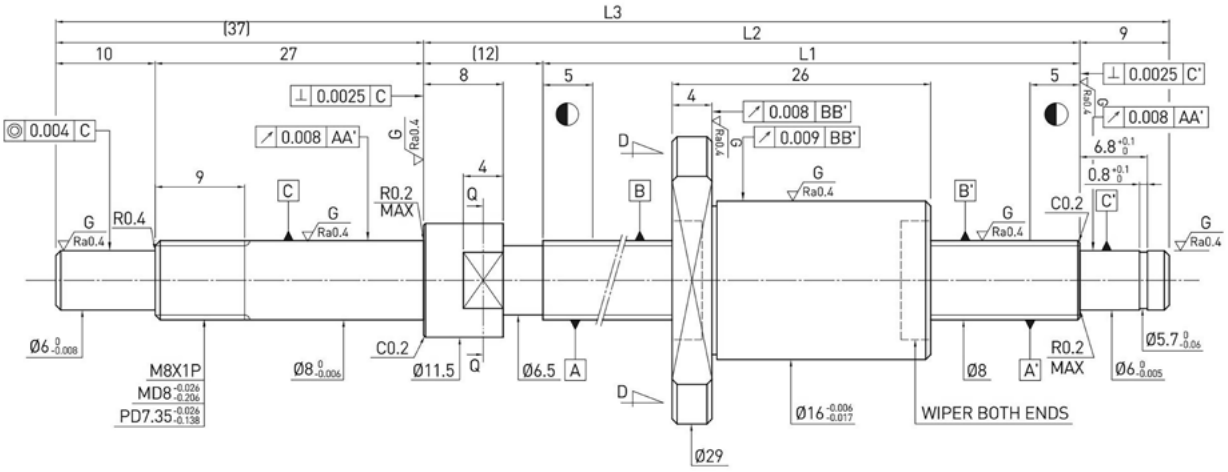
Q-Q SECTION

Unit : mm

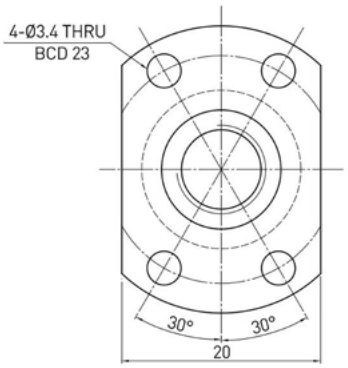
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
40	R8-1.5T3-FSI-80-138-0.008	80	92	138	C3
70	R8-1.5T3-FSI-110-168-0.008	110	122	168	C3
100	R8-1.5T3-FSI-140-198-0.008	140	152	198	C3
150	R8-1.5T3-FSI-190-248-0.008	190	202	248	C3

Precision Ground Ball Screw Series

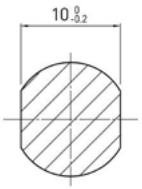
ST — FSI type (SHAFT OD 8, LEAD 2) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	2	
Lead Angle	4.44°	
P.C.D (mm)	8.2	
RD (mm)	6.652	
Steel Ball (mm)	Ø1.5	
Circuits	1x3	
Dynamic Load C (kgf)	170	
Static Load Co (kgf)	267	
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.20 MAX	0.03 MAX
Spacer Ball	-	-



D-D VIEW



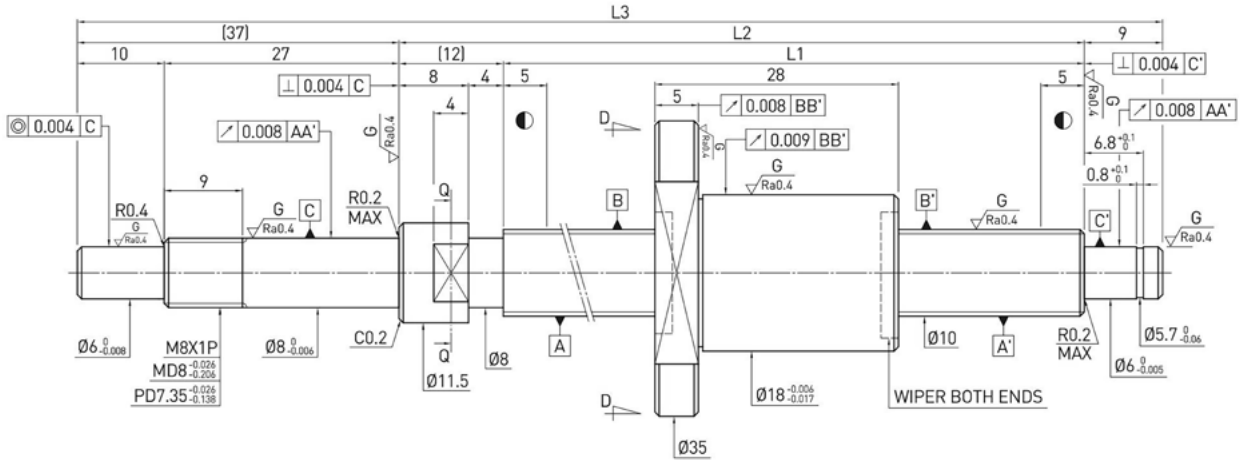
Q-Q SECTION

Unit : mm

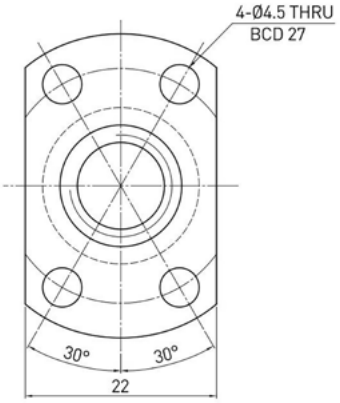
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
40	R8-2T3-FSI-80-138-0.008	80	92	138	C3
70	R8-2T3-FSI-110-168-0.008	110	122	168	C3
100	R8-2T3-FSI-140-198-0.008	140	152	198	C3
150	R8-2T3-FSI-190-248-0.008	190	202	248	C3

Precision Ground Ball Screw Series

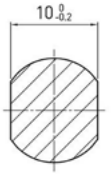
ST — FSI type (SHAFT OD 10, LEAD 2) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	2	
Lead Angle	3.57°	
P.C.D (mm)	10.2	
RD (mm)	8.652	
Steel Ball (mm)	Ø1.5	
Circuits	1x3	
Dynamic Load C (kgf)	196	
Static Load Co (kgf)	348	
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.01~0.24	0.05 MAX
Spacer Ball	-	-



D-D VIEW



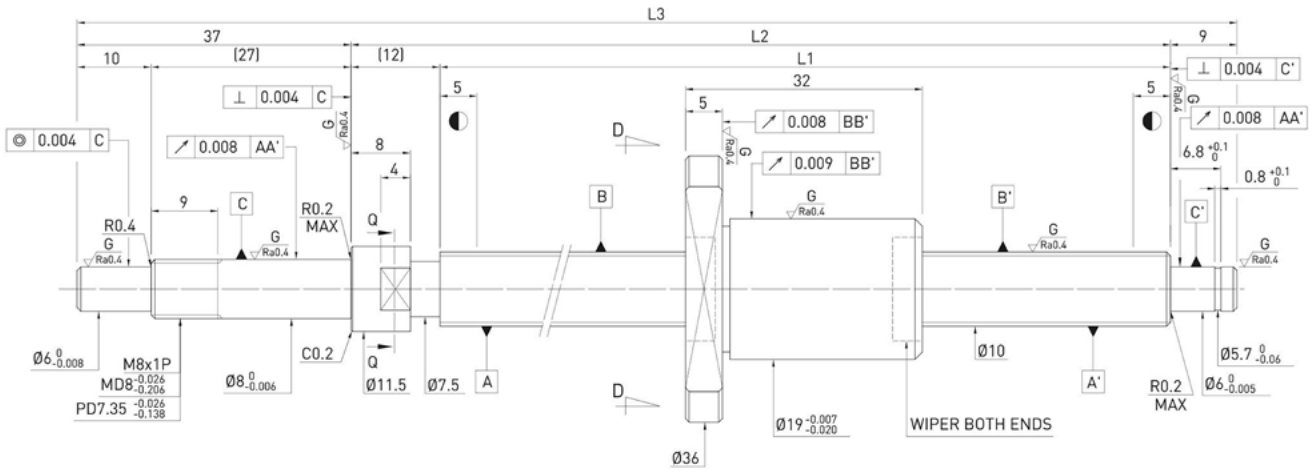
Q-Q SECTION

Unit : mm

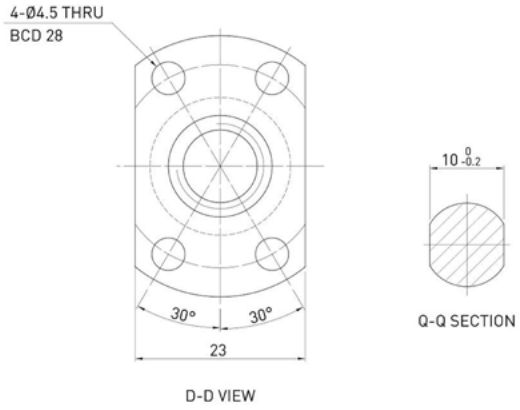
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
50	R10-2T3-FSI-100-158-0.008	100	112	158	C3
100	R10-2T3-FSI-150-208-0.008	150	162	208	C3
150	R10-2T3-FSI-200-258-0.008	200	212	258	C3
200	R10-2T3-FSI-250-308-0.008	250	262	308	C3

Precision Ground Ball Screw Series

ST — FSI type (SHAFT OD 10, LEAD 2,5) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	2.5	
Lead Angle	4.46°	
P.C.D (mm)	10.2	
RD (mm)	8.136	
Steel Ball (mm)	Ø2	
Circuits	1x3	
Dynamic Load C (kgf)	274	
Static Load Co (kgf)	438	
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.02~0.3	0.05 MAX
Spacer Ball	-	-

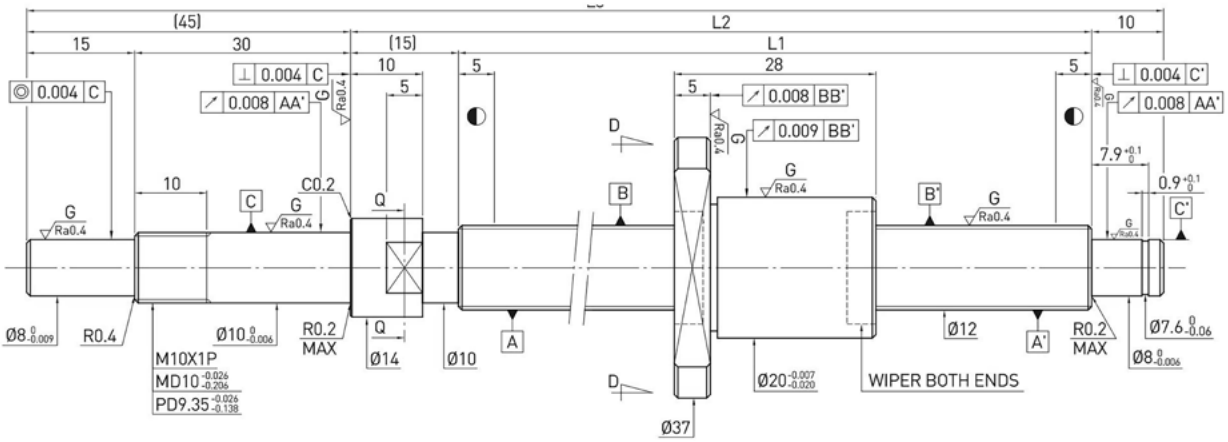


Unit : mm

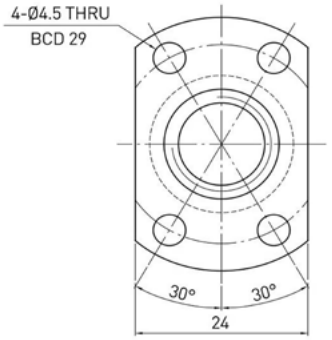
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
50	R10-2.5T3-FSI-100-158-0.008	100	112	158	C3
100	R10-2.5T3-FSI-150-208-0.008	150	162	208	C3
150	R10-2.5T3-FSI-200-258-0.008	200	212	258	C3
200	R10-2.5T3-FSI-250-308-0.008	250	262	308	C3

Precision Ground Ball Screw Series

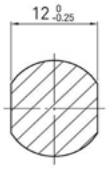
ST — FSI type (SHAFT OD 10, LEAD 2) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	2	
Lead Angle	2.99°	
P.C.D (mm)	12.2	
RD (mm)	10.652	
Steel Ball (mm)	Ø1.5	
Circuits	1x3	
Dynamic Load C (kgf)	217	
Static Load Co (kgf)	430	
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.04~0.35	0.1 MAX
Spacer Ball	-	-



D-D VIEW



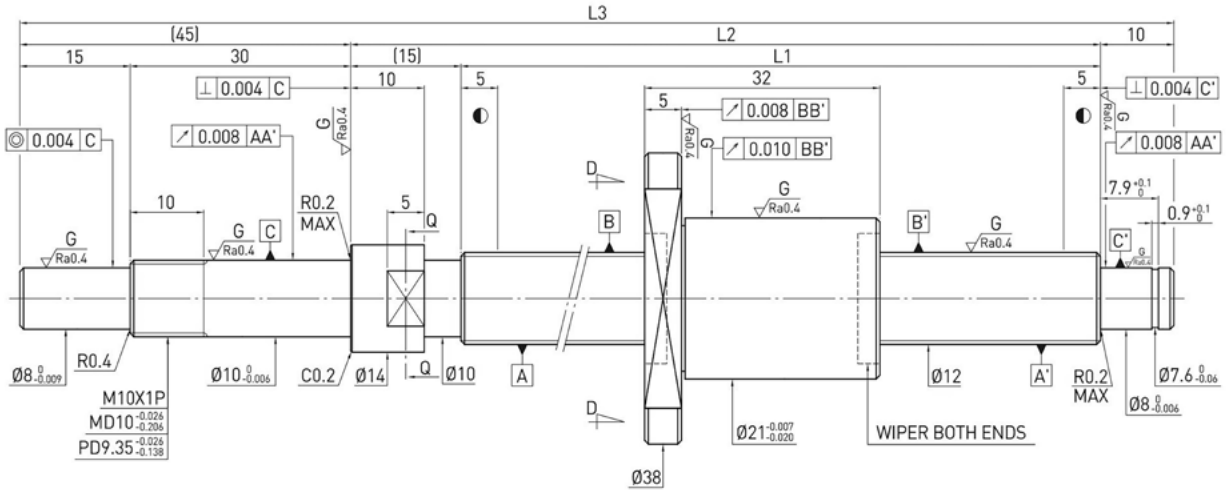
Q-Q SECTION

Unit : mm

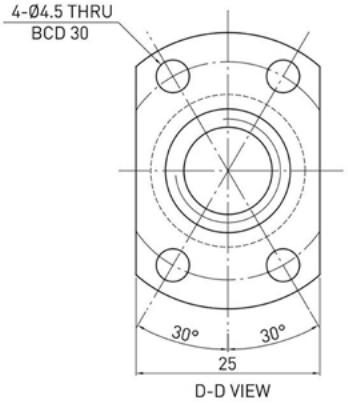
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
50	R12-2T3-FSI-110-180-0.008	110	125	180	C3
100	R12-2T3-FSI-160-230-0.008	160	175	230	C3
150	R12-2T3-FSI-210-280-0.008	210	225	280	C3
200	R12-2T3-FSI-260-330-0.008	260	275	330	C3
250	R12-2T3-FSI-310-380-0.008	310	325	380	C3

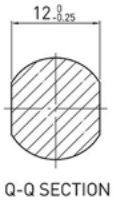
Precision Ground Ball Screw Series

ST — FSI type (SHAFT OD 12, LEAD 2,5) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	2.5	
Lead Angle	3.73°	
P.C.D (mm)	12.2	
RD (mm)	10.136	
Steel Ball (mm)	Ø2	
Circuits	1x3	
Dynamic Load C (kgf)	309	
Static Load Co (kgf)	546	
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.04~0.35	0.1 MAX
Spacer Ball	-	-



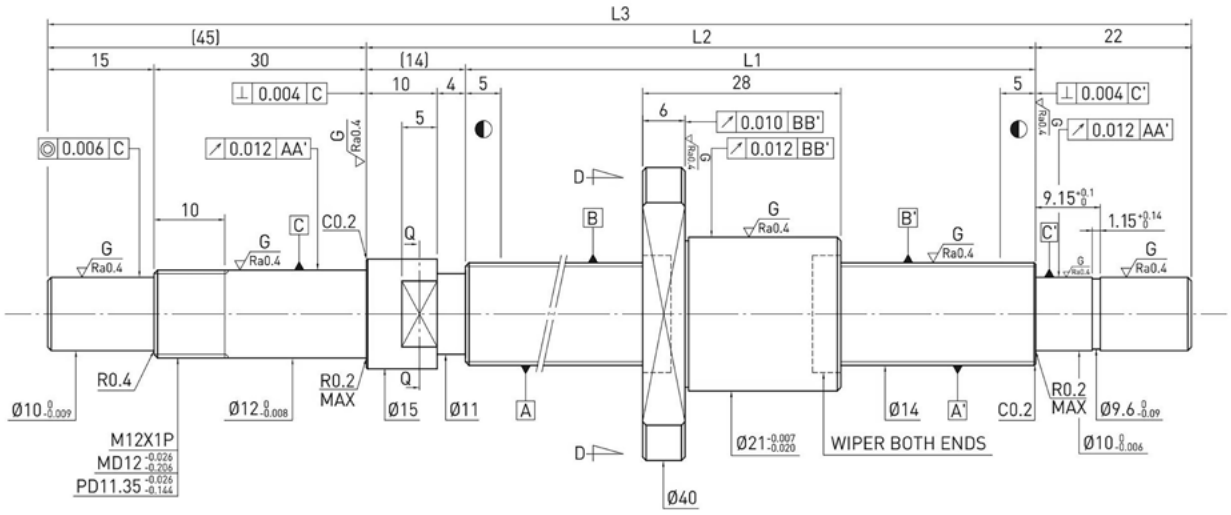


Unit : mm

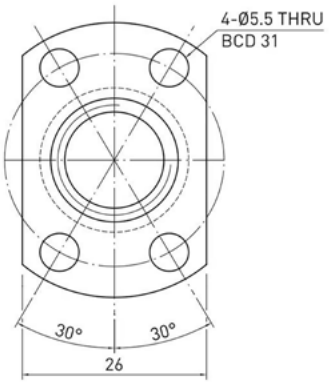
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
50	R12-2.5T3-FSI-110-180-0.008	110	125	180	C3
100	R12-2.5T3-FSI-160-230-0.008	160	175	230	C3
150	R12-2.5T3-FSI-210-280-0.008	210	225	280	C3
200	R12-2.5T3-FSI-260-330-0.008	260	275	330	C3
250	R12-2.5T3-FSI-310-380-0.008	310	325	380	C3

Precision Ground Ball Screw Series

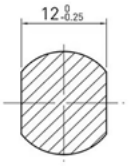
ST — FSI type (SHAFT OD 14, LEAD 2) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	2	
Lead Angle	2.57°	
P.C.D (mm)	14.2	
RD (mm)	12.652	
Steel Ball (mm)	Ø1.5	
Circuits	1x3	
Dynamic Load C (kgf)	236	
Static Load Co (kgf)	511	
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.05~0.5	-
Spacer Ball	-	-



D-D VIEW



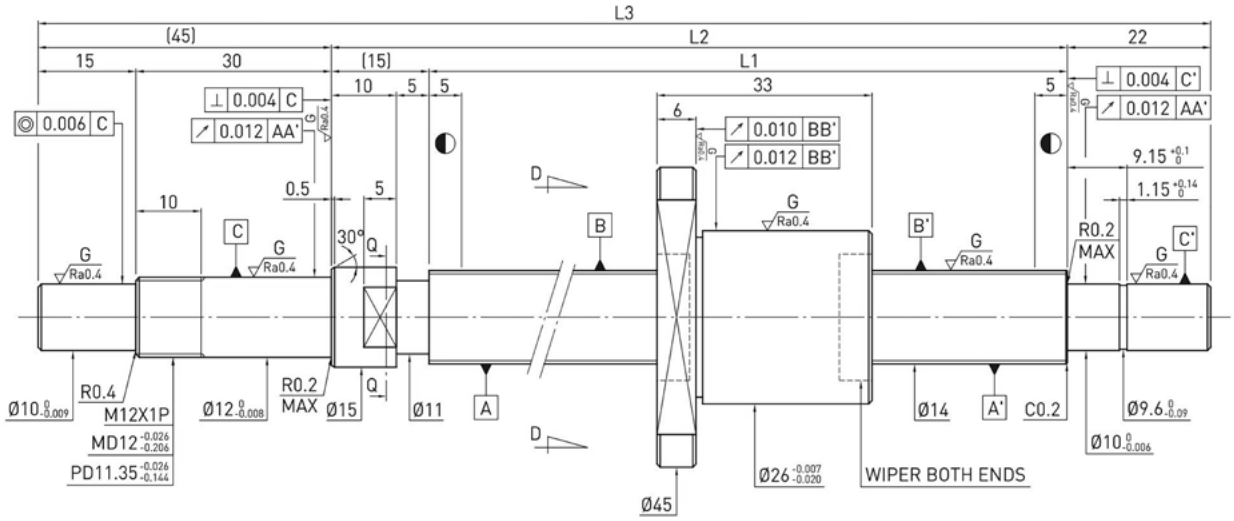
Q-Q SECTION

Unit : mm

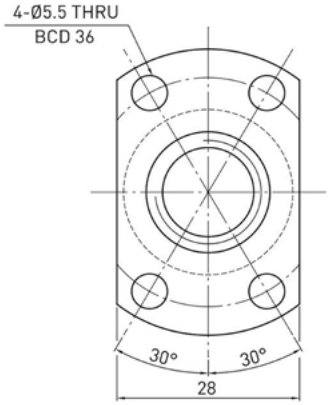
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
50	R14-2T3-FSI-85-166-0.008	85	99	166	C3
100	R14-2T3-FSI-135-216-0.008	135	149	216	C3
150	R14-2T3-FSI-185-266-0.008	185	199	266	C3
200	R14-2T3-FSI-235-316-0.008	235	249	316	C3
250	R14-2T3-FSI-335-416-0.008	335	349	416	C3

Precision Ground Ball Screw Series

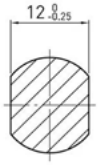
ST — FSI type (SHAFT OD 14, LEAD 4) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	4	
Lead Angle	5.11°	
P.C.D (mm)	14.25	
RD (mm)	11.792	
Steel Ball (mm)	Ø2.381	
Circuits	1x3	
Dynamic Load C (kgf)	403	
Static Load Co (kgf)	725	
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.1~0.7	-
Spacer Ball	-	-



D-D VIEW



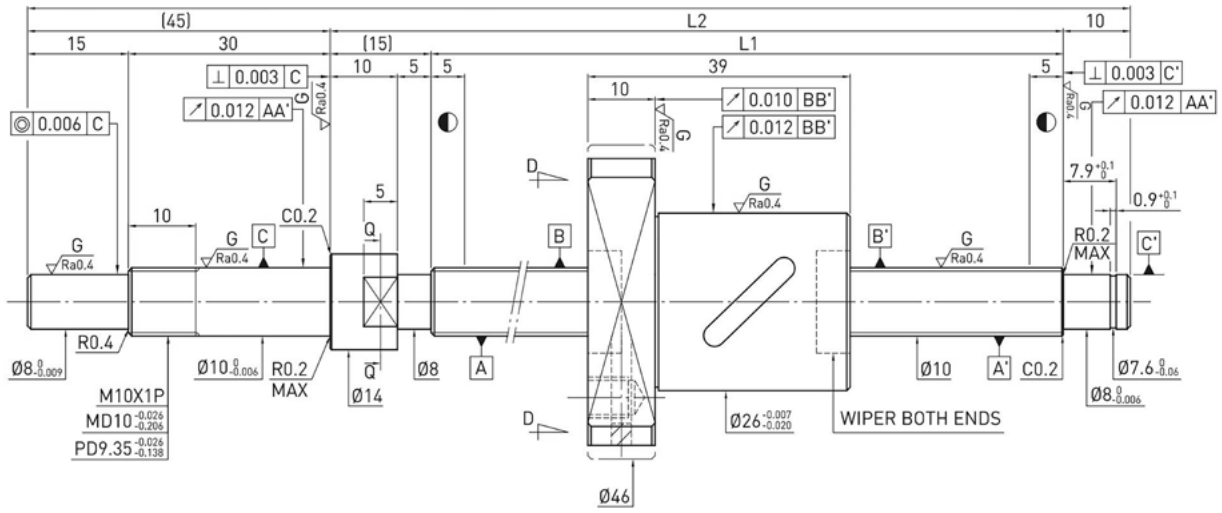
Q-Q SECTION

Unit : mm

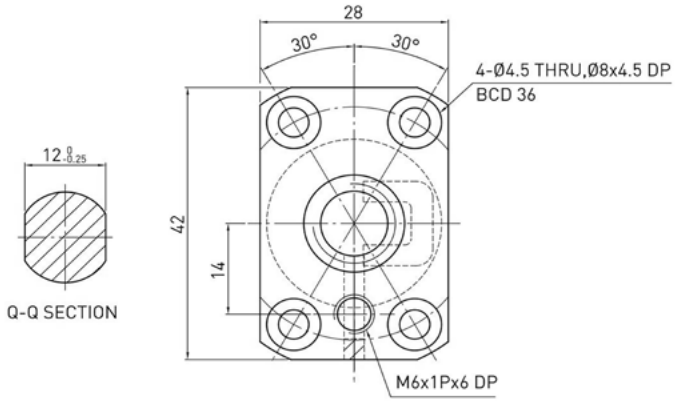
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
100	R14-4T3-FSI-148-230-0.008	148	163	230	C3
150	R14-4T3-FSI-198-280-0.008	198	213	280	C3
200	R14-4T3-FSI-248-330-0.008	248	263	330	C3
300	R14-4T3-FSI-348-430-0.008	348	363	430	C3
400	R14-4T3-FSI-448-530-0.008	448	463	530	C3

Precision Ground Ball Screw Series

ST — FSB type (SHAFT OD 10, LEAD 4) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	4	
Lead Angle	7.11°	
P.C.D (mm)	10.2	
RD (mm)	8.136	
Steel Ball (mm)	Ø2	
Circuits	2.5x1	
Dynamic Load C (kgf)	176	280
Static Load Co (kgf)	225	449
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.05~0.4	0.1 MAX
Spacer Ball	1 : 1	-

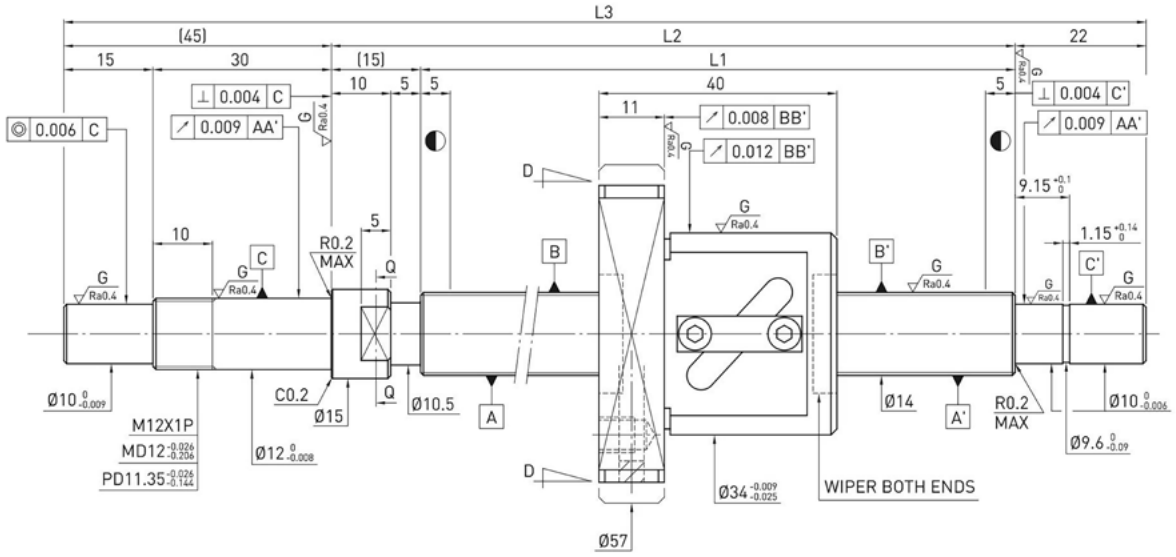


Unit : mm

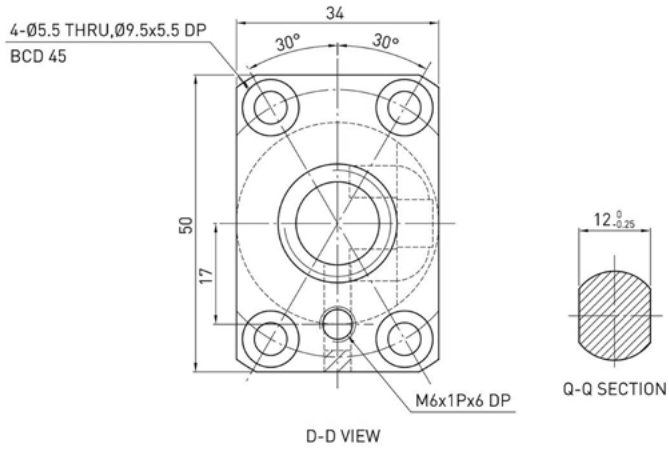
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
50	R10-4B1-FSB-110-180-0.008	110	125	180	C3
100	R10-4B1-FSB-160-230-0.008	160	175	230	C3
150	R10-4B1-FSB-210-280-0.008	210	225	280	C3
200	R10-4B1-FSB-260-330-0.008	260	275	330	C3
250	R10-4B1-FSB-310-380-0.008	310	325	380	C3
300	R10-4B1-FSB-360-430-0.008	360	375	430	C3

Precision Ground Ball Screw Series

ST — FSW type (SHAFT OD 14, LEAD 5) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	5	
Lead Angle	6.22°	
P.C.D (mm)	14.6	
RD (mm)	11.324	
Steel Ball (mm)	Ø3.175	
Circuits	2.5x1	
Dynamic Load C (kgf)	448	710
Static Load Co (kgf)	608	1215
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.15~0.70	0.2 MAX
Spacer Ball	1 : 1	-

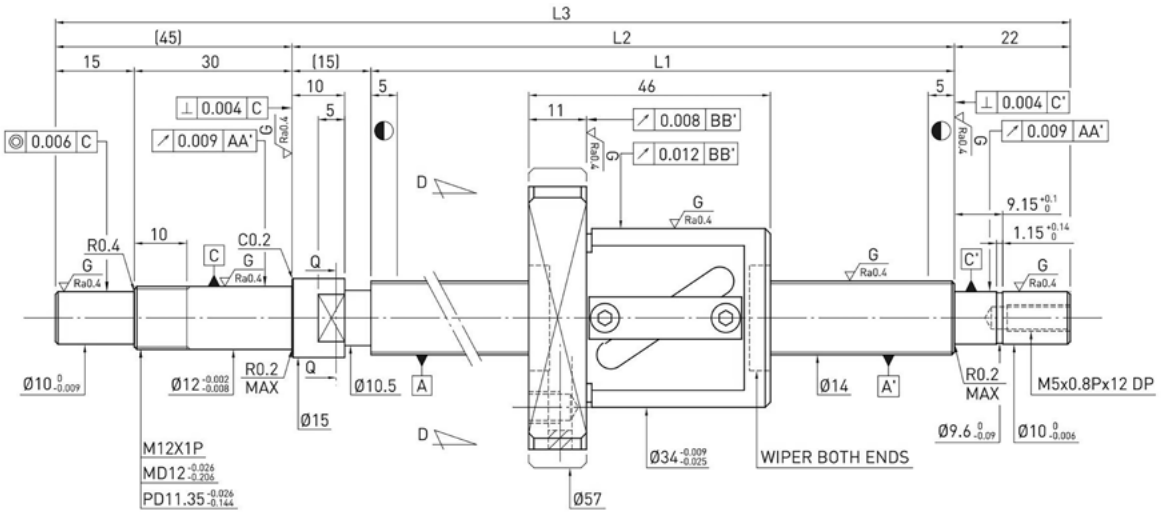


Unit : mm

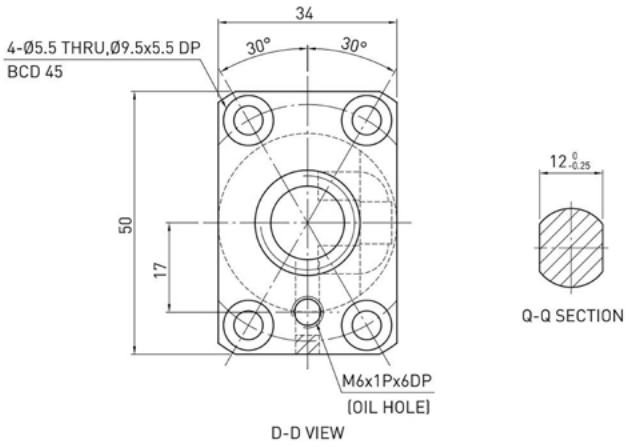
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
100	R14-5B1-FSW-189-271-0.008	189	204	271	C3
150	R14-5B1-FSW-239-321-0.008	239	254	321	C3
250	R14-5B1-FSW-339-421-0.008	339	354	421	C3
350	R14-5B1-FSW-439-521-0.008	439	454	521	C3
450	R14-5B1-FSW-539-621-0.008	539	554	621	C3
600	R14-5B1-FSW-689-771-0.008	689	704	771	C3

Precision Ground Ball Screw Series

ST — FSW type (SHAFT OD 14, LEAD 8) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	8	
Lead Angle	9.89°	
P.C.D (mm)	14.6	
RD (mm)	11.324	
Steel Ball (mm)	Ø3.175	
Circuits	2.5x1	
Dynamic Load C (kgf)	448	710
Static Load Co (kgf)	608	1215
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.15~0.79	0.24 MAX
Spacer Ball	1 : 1	-

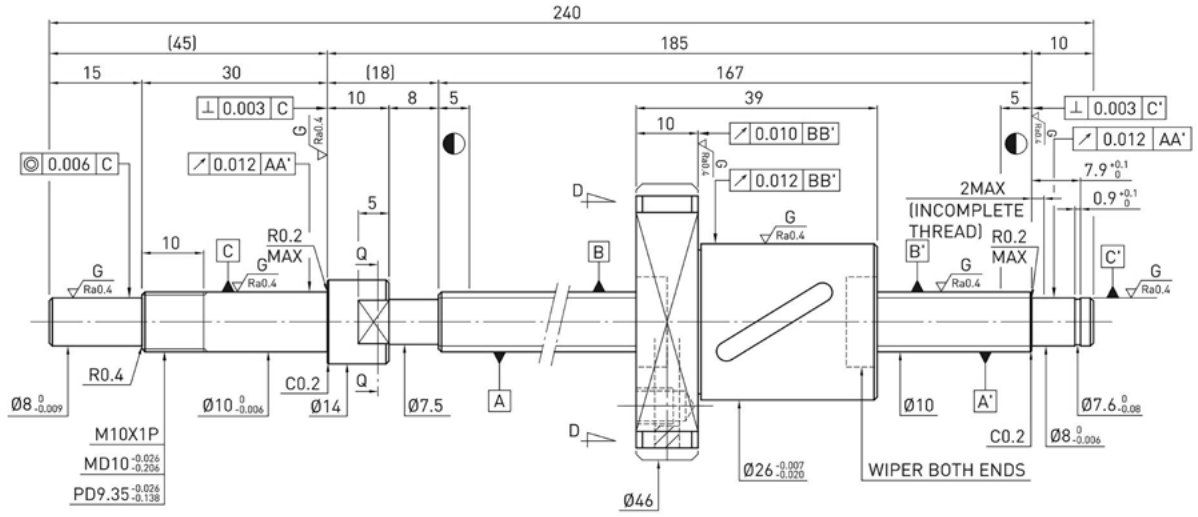


Unit : mm

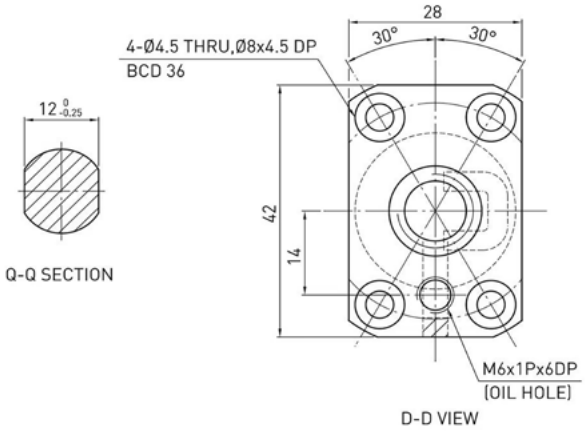
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
100	R14-8B1-FSW-189-271-0.008	189	204	271	C3
150	R14-8B1-FSW-239-321-0.008	239	254	321	C3
200	R14-8B1-FSW-289-371-0.008	289	304	371	C3
250	R14-8B1-FSW-339-421-0.008	339	354	421	C3
300	R14-8B1-FSW-389-471-0.008	389	404	471	C3
350	R14-8B1-FSW-439-521-0.008	439	454	521	C3
400	R14-8B1-FSW-489-571-0.008	489	504	571	C3
450	R14-8B1-FSW-539-621-0.008	539	554	621	C3
500	R14-8B1-FSW-589-671-0.008	589	604	671	C3
550	R14-8B1-FSW-639-721-0.008	639	654	721	C3
600	R14-8B1-FSW-689-771-0.008	689	704	771	C3
700	R14-8B1-FSW-789-871-0.008	789	804	871	C3

Precision Ground Ball Screw Series

ST — FSB type (SHAFT OD 10, LEAD 10) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	10	
Lead Angle	16.71°	
P.C.D (mm)	10.6	
RD (mm)	7.324	
Steel Ball (mm)	Ø3.175	
Circuits	1.5x1	
Dynamic Load C (kgf)	223	354
Static Load Co (kgf)	245	489
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.1~0.5	-
Spacer Ball	1 : 1	-



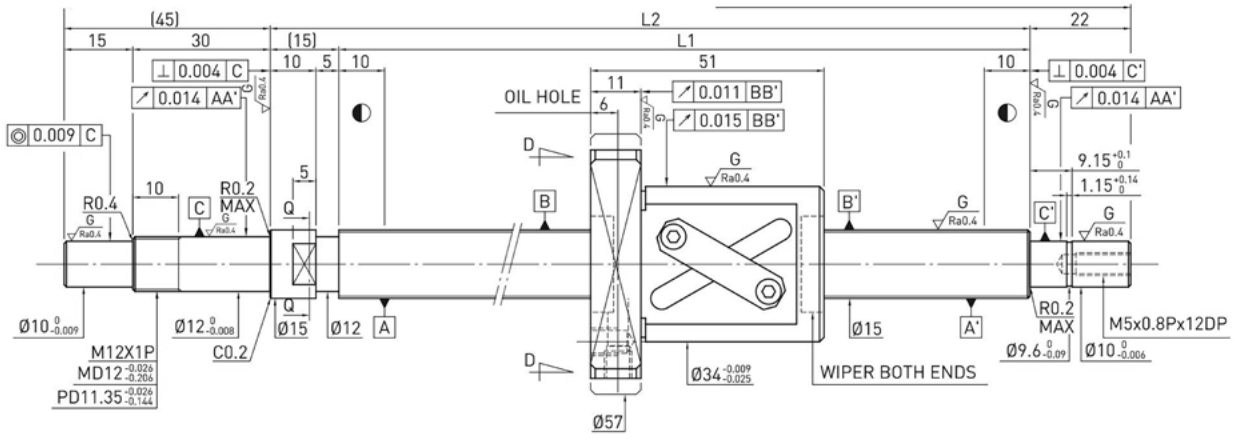
Unit : mm

Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
100	R10-10A1-FSB-167-240-0.008	167	185	240	C3
150	R10-10A1-FSB-217-290-0.008	217	235	290	C3
200	R10-10A1-FSB-267-340-0.008	267	285	340	C3
250	R10-10A1-FSB-317-390-0.008	317	335	390	C3
300	R10-10A1-FSB-367-440-0.008	367	385	440	C3

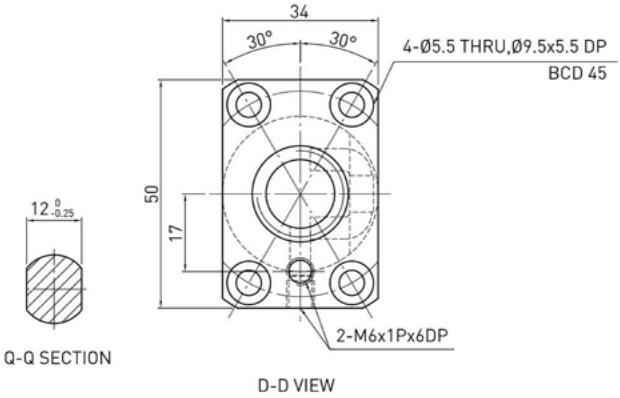
Precision Ground Ball Screw Series

2.4 End Machining Ground Ballscrew Series

ST — FSW type (SHAFT OD 15, LEAD 10) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	10	
Lead Angle	11.53°	
P.C.D (mm)	15.6	
RD (mm)	12.324	
Steel Ball (mm)	Ø3.175	
Circuits	2.5x1	
Dynamic Load C (kgf)	460	729
Static Load Co (kgf)	645	1290
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.15~0.79	0.24 MAX
Spacer Ball	1 : 1	-

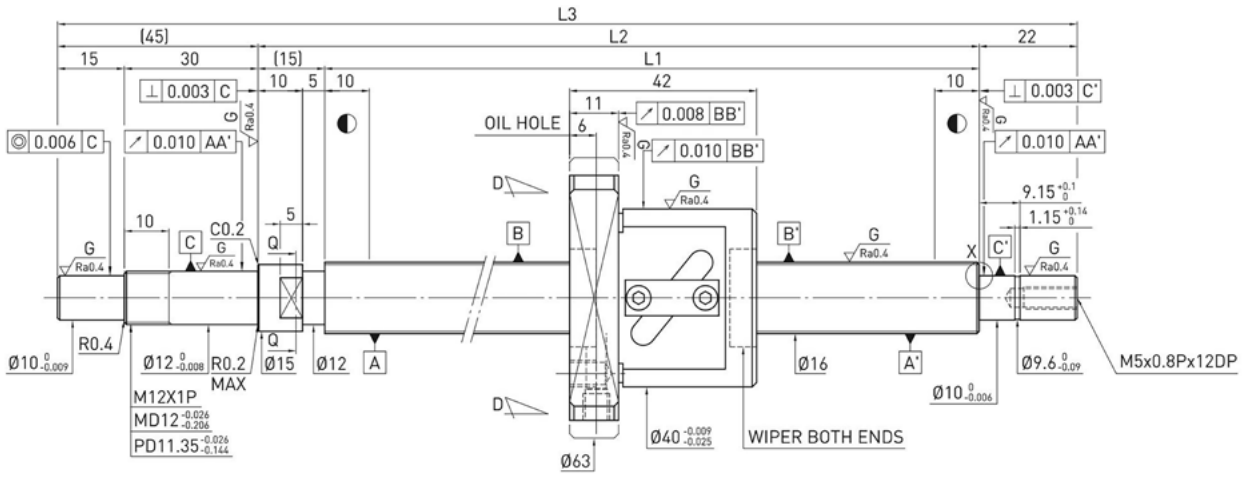


Unit : mm

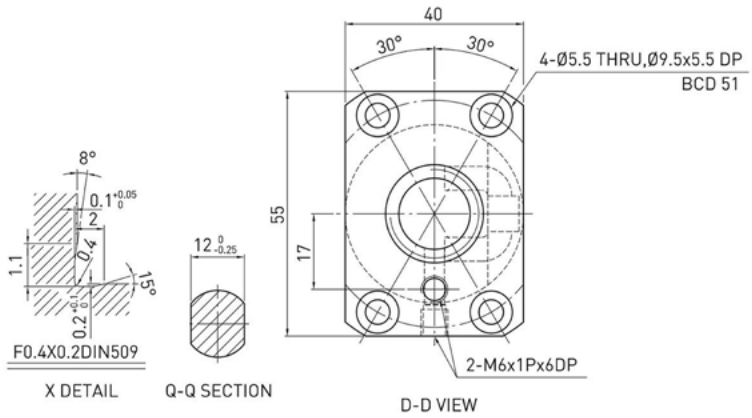
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
100	R15-10B1-FSW-189-271-0.018	189	204	271	C5
150	R15-10B1-FSW-239-321-0.018	239	254	321	C5
200	R15-10B1-FSW-289-371-0.018	289	304	371	C5
250	R15-10B1-FSW-339-421-0.018	339	354	421	C5
300	R15-10B1-FSW-389-471-0.018	389	404	471	C5
350	R15-10B1-FSW-439-521-0.018	439	454	521	C5
400	R15-10B1-FSW-489-571-0.018	489	504	571	C5
450	R15-10B1-FSW-539-621-0.018	539	554	621	C5
500	R15-10B1-FSW-589-671-0.018	589	604	671	C5
550	R15-10B1-FSW-639-721-0.018	639	654	721	C5
600	R15-10B1-FSW-689-771-0.018	689	704	771	C5
700	R15-10B1-FSW-789-871-0.018	789	804	871	C5
800	R15-10B1-FSW-889-971-0.018	889	904	971	C5
1000	R15-10B1-FSW-1089-1171-0.018	1089	1104	1171	C5

Precision Ground Ball Screw Series

ST — FSW type (SHAFT OD 16, LEAD 5) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	5	
Lead Angle	5.48°	
P.C.D (mm)	16.6	
RD (mm)	13.324	
Steel Ball (mm)	Ø3.175	
Circuits	2.5x1	
Dynamic Load C (kgf)	481	763
Static Load Co (kgf)	700	1399
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.15~0.8	0.2 MAX
Spacer Ball	1 : 1	-

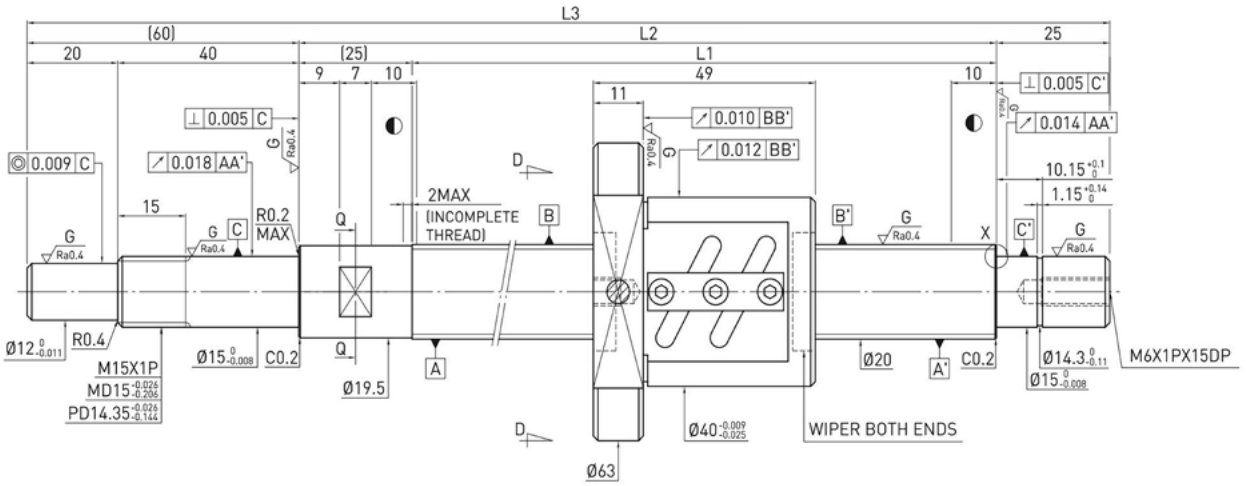


Unit : mm

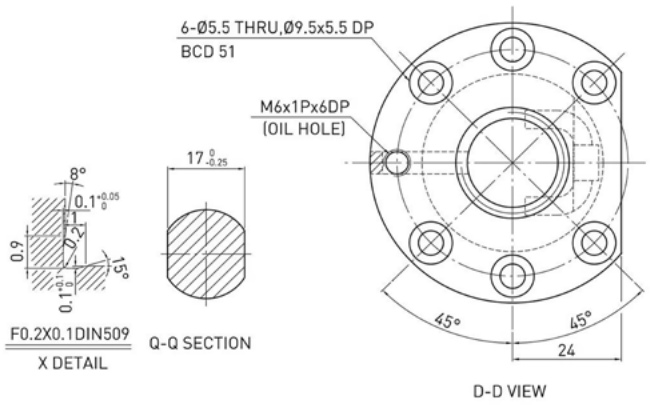
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
100	R16-5B1-FSW-189-271-0.018	189	204	271	C5
200	R16-5B1-FSW-289-371-0.018	289	304	371	C5
300	R16-5B1-FSW-389-471-0.018	389	404	471	C5
400	R16-5B1-FSW-489-571-0.018	489	504	571	C5
600	R16-5B1-FSW-689-771-0.018	689	704	771	C5
800	R16-5B1-FSW-889-971-0.018	889	904	971	C5

Precision Ground Ball Screw Series

ST — FSW type (SHAFT OD 20, LEAD 4) miniature



Ballscrew Data	
Direction	Right Hand
Lead (mm)	4
Lead Angle	3.6°
P.C.D (mm)	20.25
RD (mm)	17.792
Steel Ball (mm)	Ø2.381
Circuits	2.5x2
Dynamic Load C (kgf)	561
Static Load Co (kgf)	1085
Axial Play (mm)	0
Drag Torque (kgf-cm)	0.12~0.68
Spacer Ball	1 : 1

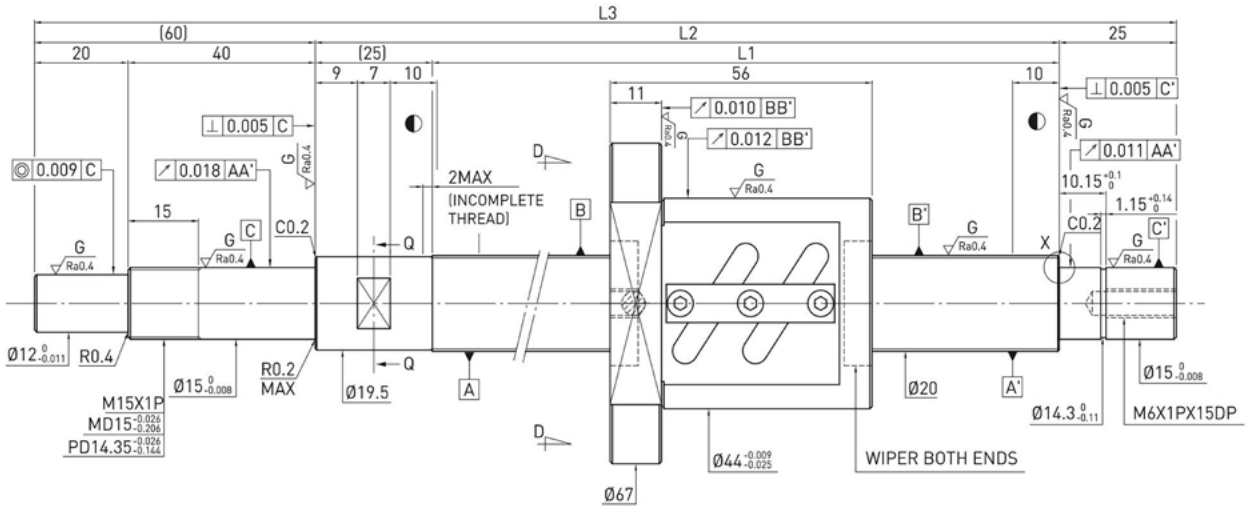


Unit : mm

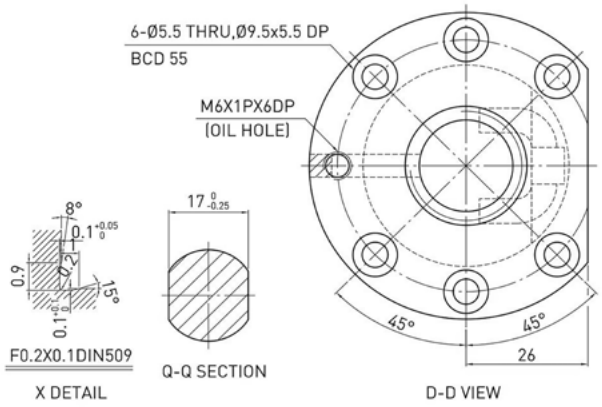
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
150	R20-4B2-FSW-225-335-0.018	225	250	335	C5
200	R20-4B2-FSW-275-385-0.018	275	300	385	C5
300	R20-4B2-FSW-375-485-0.018	375	400	485	C5
400	R20-4B2-FSW-475-585-0.018	475	500	585	C5
500	R20-4B2-FSW-575-685-0.018	575	600	685	C5
600	R20-4B2-FSW-675-785-0.018	675	700	785	C5

Precision Ground Ball Screw Series

ST — FSW type (SHAFT OD 20, LEAD 5) miniature



Ballscrew Data	
Direction	Right Hand
Lead (mm)	5
Lead Angle	4.42°
P.C.D (mm)	20.6
RD (mm)	17.324
Steel Ball (mm)	Ø3.175
Circuits	2.5x2
Dynamic Load C (kgf)	952
Static Load Co (kgf)	1732
Axial Play (mm)	0
Drag Torque (kgf-cm)	0.28~1.32
Spacer Ball	1 : 1

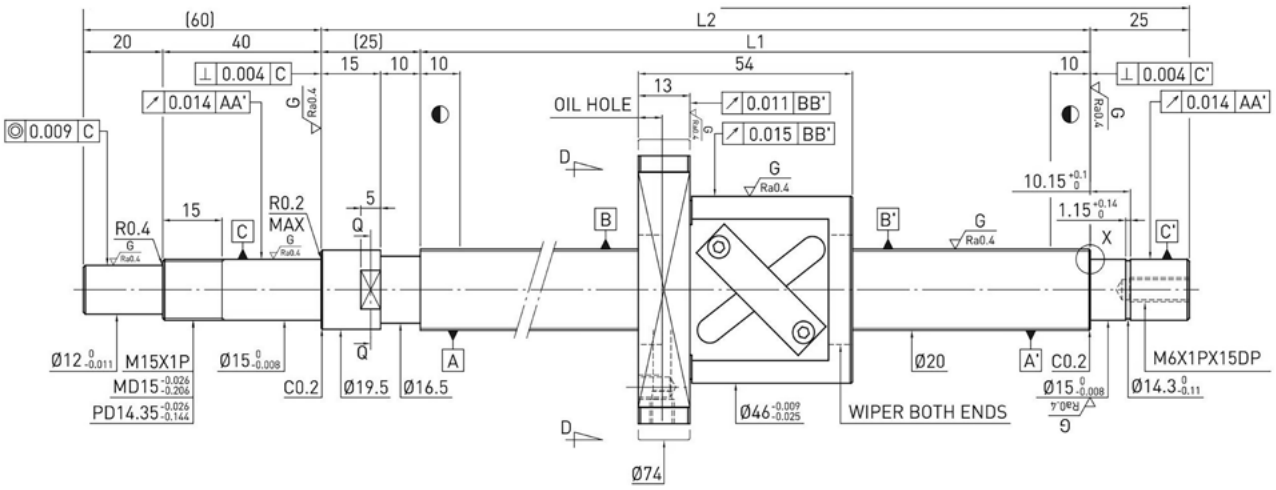


Unit : mm

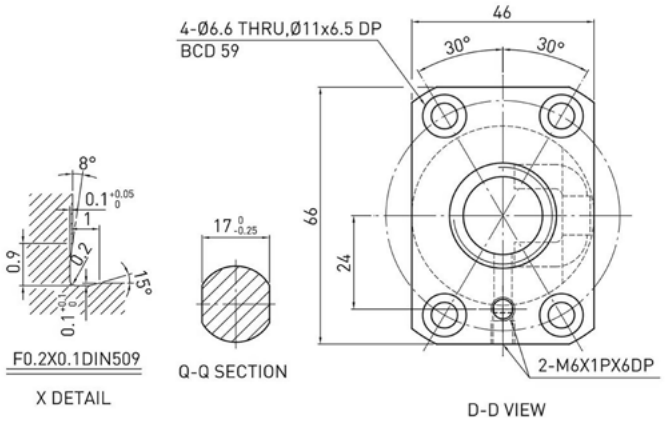
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
150	R20-5B2-FSW-225-335-0.018	225	250	335	C5
200	R20-5B2-FSW-275-385-0.018	275	300	385	C5
300	R20-5B2-FSW-375-485-0.018	375	400	485	C5
400	R20-5B2-FSW-475-585-0.018	475	500	585	C5
500	R20-5B2-FSW-575-685-0.018	575	600	685	C5
700	R20-5B2-FSW-775-885-0.018	775	800	885	C5

Precision Ground Ball Screw Series

ST — FSW type (SHAFT OD 20, LEAD 5) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	10	
Lead Angle	8.7°	
P.C.D (mm)	20.8	
RD (mm)	16.744	
Steel Ball (mm)	Ø3.969	
Circuits	2.5x1	
Dynamic Load C (kgf)	718	1139
Static Load Co (kgf)	1094	2187
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.2~1.2	0.3 MAX
Spacer Ball	1 : 1	-

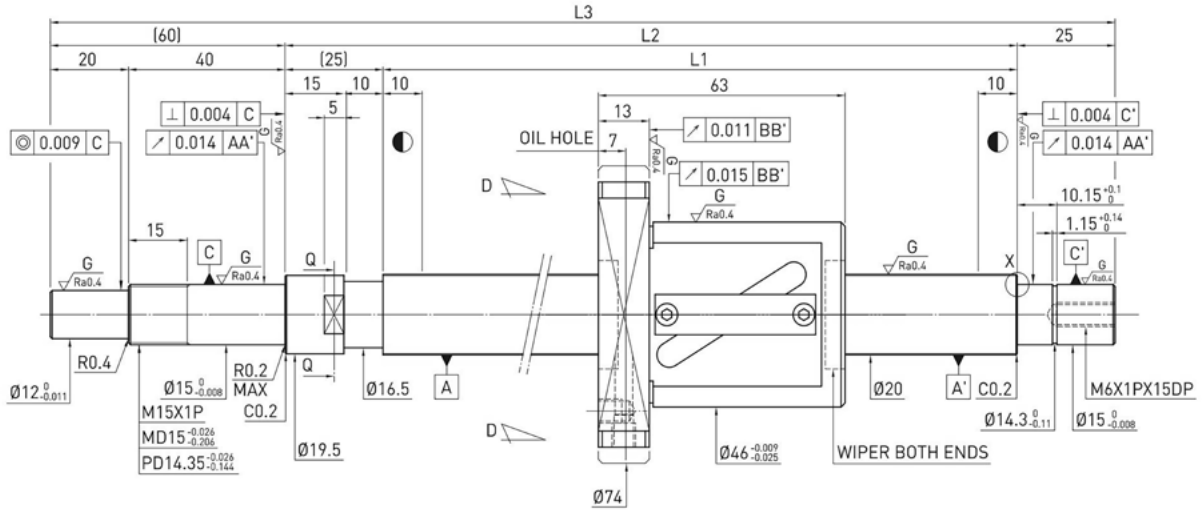


Unit : mm

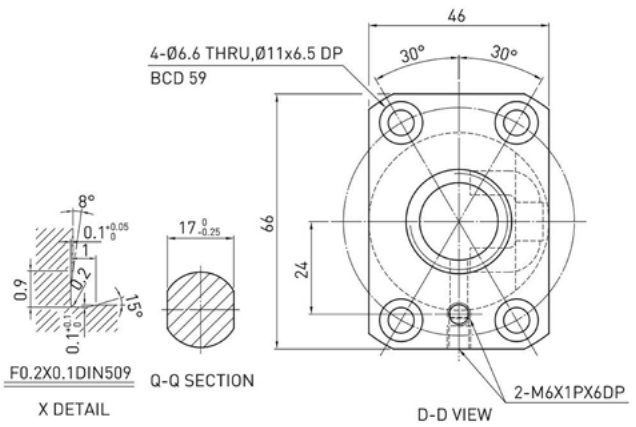
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
200	R20-10B1-FSW-289-399-0.018	289	314	399	C5
300	R20-10B1-FSW-389-499-0.018	389	414	499	C5
400	R20-10B1-FSW-489-599-0.018	489	514	599	C5
500	R20-10B1-FSW-589-699-0.018	589	614	699	C5
600	R20-10B1-FSW-689-799-0.018	689	714	799	C5
700	R20-10B1-FSW-789-899-0.018	789	814	899	C5
800	R20-10B1-FSW-889-999-0.018	889	914	999	C5
900	R20-10B1-FSW-989-1099-0.018	989	1014	1099	C5
1000	R20-10B1-FSW-1089-1199-0.018	1089	1114	1199	C5
1100	R20-10B1-FSW-1189-1299-0.018	1189	1214	1299	C5
1400	R20-10B1-FSW-1289-1399-0.018	1289	1314	1399	C5

Precision Ground Ball Screw Series

ST — FSW type (SHAFT OD 20, LEAD 20) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	20	
Lead Angle	17.01°	
P.C.D (mm)	20.8	
RD (mm)	16.744	
Steel Ball (mm)	Ø3.969	
Circuits	1.5x1	
Dynamic Load C (kgf)	453	719
Static Load Co (kgf)	641	1280
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.2~1.2	0.3 MAX
Spacer Ball	1 : 1	-

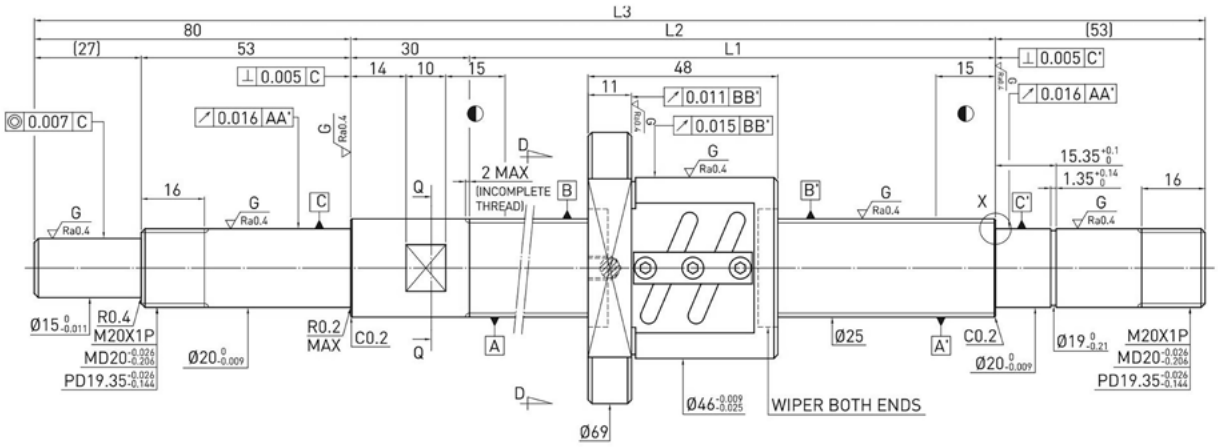


Unit : mm

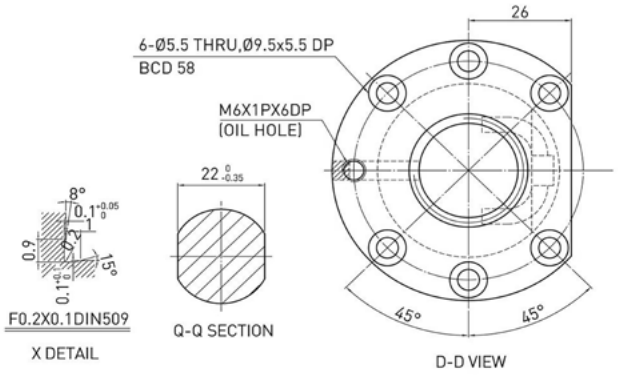
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
200	R20-20A1-FSW-310-420-0.018	310	335	420	C5
300	R20-20A1-FSW-410-520-0.018	410	435	520	C5
400	R20-20A1-FSW-510-620-0.018	510	535	620	C5
500	R20-20A1-FSW-610-720-0.018	610	635	720	C5
600	R20-20A1-FSW-710-820-0.018	710	735	820	C5
700	R20-20A1-FSW-810-920-0.018	810	835	920	C5
800	R20-20A1-FSW-910-1020-0.018	910	935	1020	C5
900	R20-20A1-FSW-1010-1120-0.018	1010	1035	1120	C5
1000	R20-20A1-FSW-1110-1220-0.018	1110	1135	1220	C5
1100	R20-20A1-FSW-1210-1320-0.018	1210	1235	1320	C5
1400	R20-20A1-FSW-1510-1620-0.018	1510	1535	1620	C5

Precision Ground Ball Screw Series

ST — FSW type (SHAFT OD 25, LEAD 4) miniature



Ballscrew Data	
Direction	Right Hand
Lead (mm)	4
Lead Angle	2.89°
P.C.D (mm)	25.25
RD (mm)	22.792
Steel Ball (mm)	Ø2.381
Circuits	2.5x2
Dynamic Load C (kgf)	988
Static Load Co (kgf)	2752
Axial Play (mm)	0
Drag Torque (kgf-cm)	0.15~0.85
Spacer Ball	1 : 1

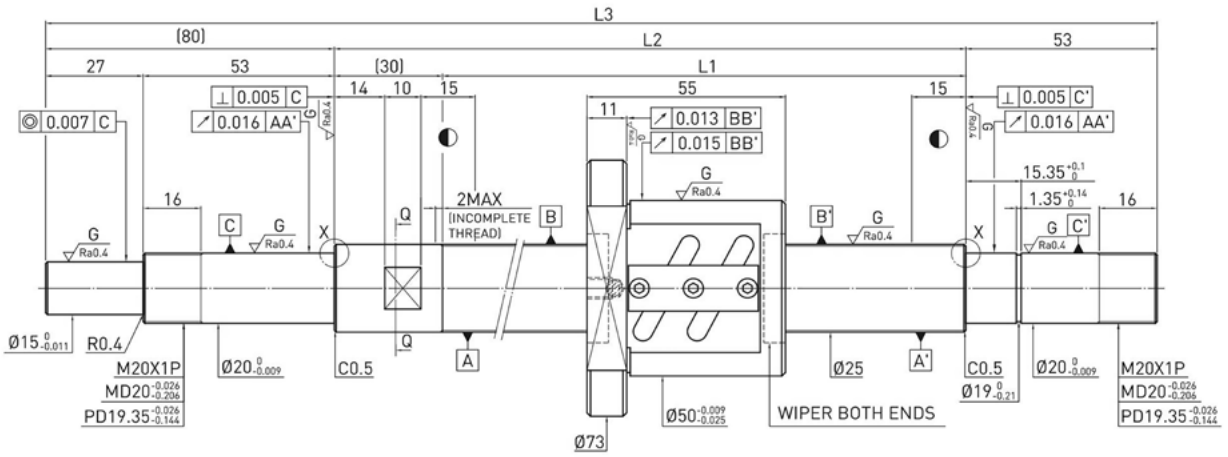


Unit : mm

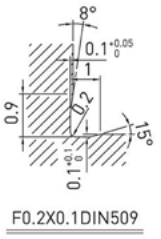
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
150	R25-4B2-FSW-220-383-0.018	220	250	383	5
200	R25-4B2-FSW-270-433-0.018	270	300	433	5
300	R25-4B2-FSW-370-533-0.018	370	400	533	5
400	R25-4B2-FSW-470-633-0.018	470	500	633	5
500	R25-4B2-FSW-570-733-0.018	570	600	733	5
700	R25-4B2-FSW-770-933-0.018	770	800	933	5

Precision Ground Ball Screw Series

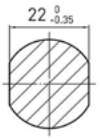
ST — FSW type (SHAFT OD 25, LEAD 5) miniature



Ballscrew Data	
Direction	Right Hand
Lead (mm)	5
Lead Angle	3.56°
P.C.D (mm)	25.6
RD (mm)	22.324
Steel Ball (mm)	Ø3.175
Circuits	2.5x2
Dynamic Load C (kgf)	1073
Static Load Co (kgf)	2209
Axial Play (mm)	0
Drag Torque (kgf-cm)	0.36~1.44
Spacer Ball	1 : 1



X DETAIL



Q-Q SECTION

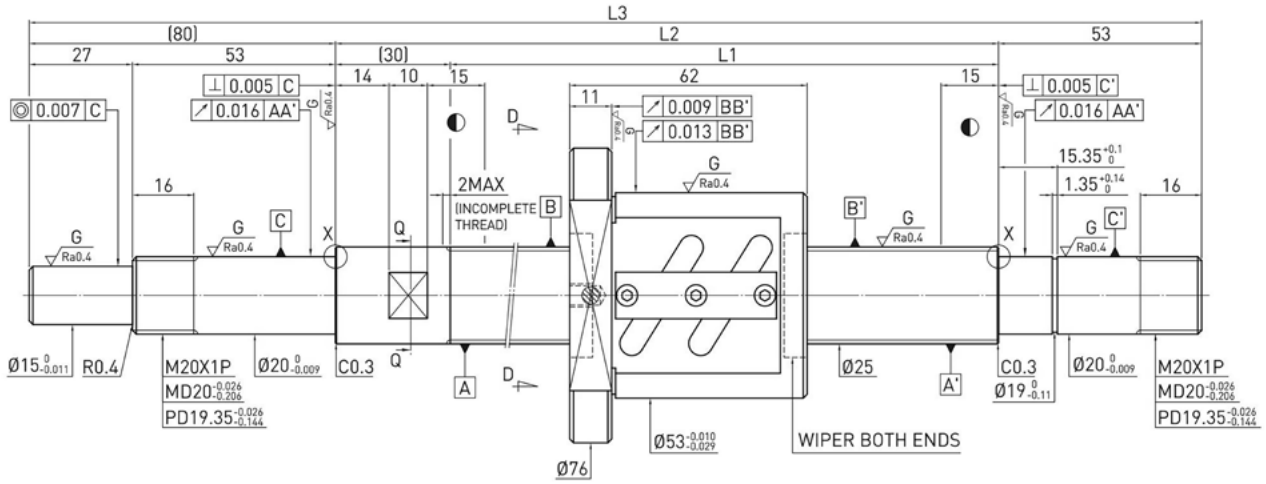
D-D VIEW

Unit : mm

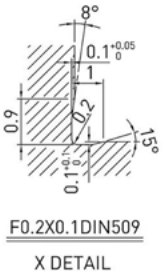
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
150	R25-5B2-FSW-220-383-0.018	220	250	383	C5
200	R25-5B2-FSW-270-433-0.018	270	300	433	C5
300	R25-5B2-FSW-370-533-0.018	370	400	533	C5
400	R25-5B2-FSW-470-633-0.018	470	500	633	C5
500	R25-5B2-FSW-570-733-0.018	570	600	733	C5
600	R25-5B2-FSW-670-833-0.018	670	700	833	C5
700	R25-5B2-FSW-770-933-0.018	770	800	933	C5
900	R25-5B2-FSW-970-1133-0.018	970	1000	1133	C5
1000	R25-5B2-FSW-1170-1333-0.018	1170	1200	1333	C5

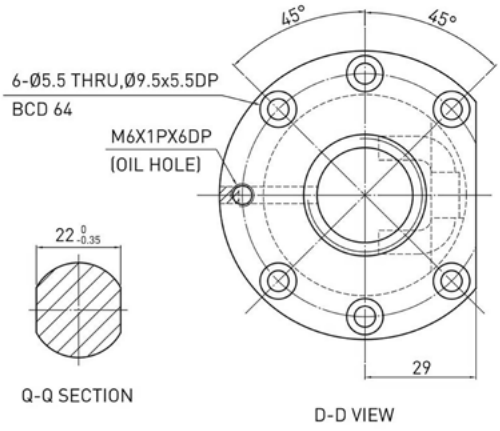
Precision Ground Ball Screw Series

ST — FSW type (SHAFT OD 25, LEAD 6) miniature



Ballscrew Data	
Direction	Right Hand
Lead (mm)	6
Lead Angle	4.23°
P.C.D (mm)	25.8
RD (mm)	21.744
Steel Ball (mm)	Ø3.969
Circuits	2.5x2
Dynamic Load C (kgf)	1453
Static Load Co (kgf)	2761
Axial Play (mm)	0
Drag Torque (kgf-cm)	0.42~2.4
Spacer Ball	1 : 1



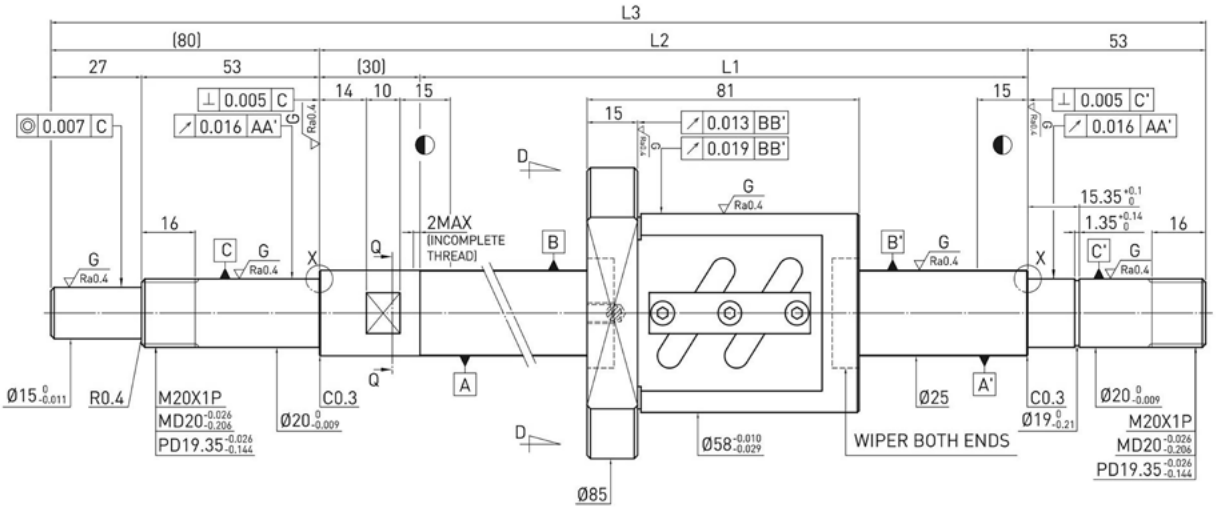


Unit : mm

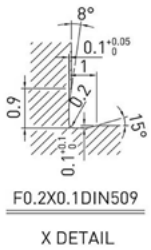
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
250	R25-6B2-FSW-370-533-0.018	370	400	533	C5
450	R25-6B2-FSW-570-733-0.018	570	600	733	C5
650	R25-6B2-FSW-770-933-0.018	770	800	933	C5
1050	R25-6B2-FSW-1170-1333-0.018	1170	1200	1333	C5

Precision Ground Ball Screw Series

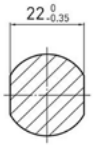
ST — FSW type (SHAFT OD 25, LEAD 10) miniature

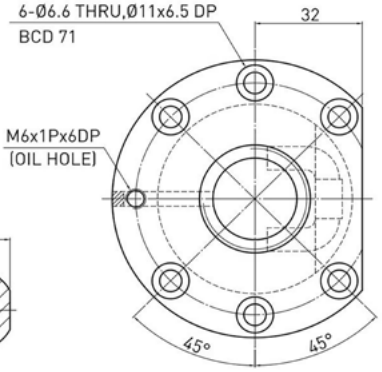


Ballscrew Data	
Direction	Right Hand
Lead (mm)	10
Lead Angle	10.98°
P.C.D (mm)	26
RD (mm)	21.132
Steel Ball (mm)	Ø4.763
Circuits	1.5x2
Dynamic Load C (kgf)	1164
Static Load Co (kgf)	1927
Axial Play (mm)	0
Drag Torque (kgf-cm)	0.42~2.4
Spacer Ball	1 : 1



X DETAIL


Q-Q SECTION



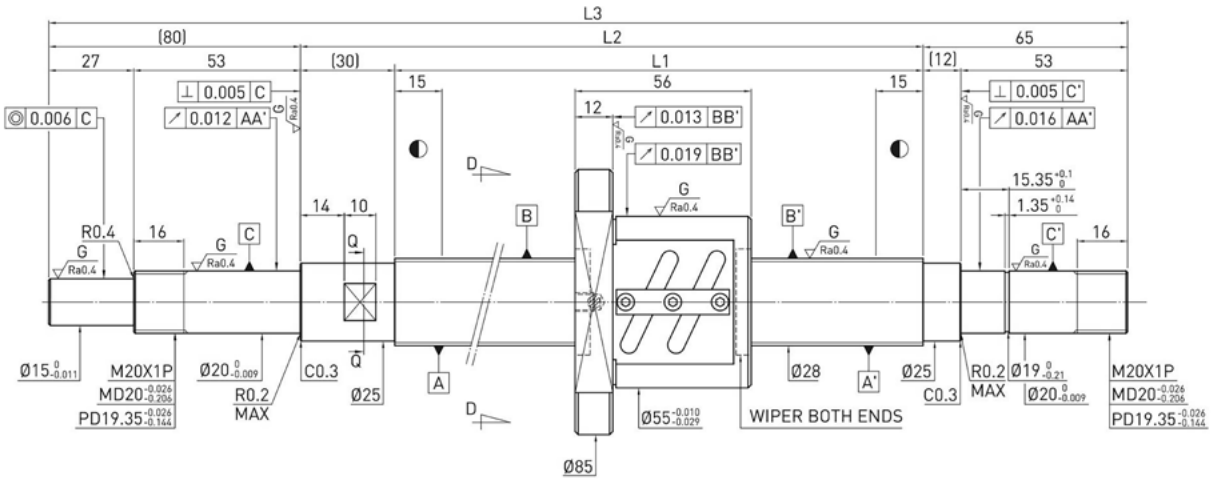
D-D VIEW

Unit : mm

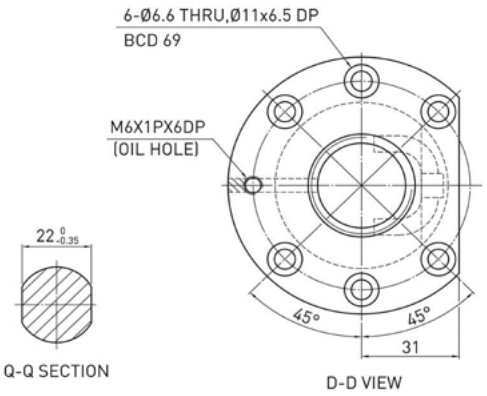
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
250	R25-10A2-FSW-370-533-0.018	370	400	533	C5
450	R25-10A2-FSW-570-733-0.018	570	600	733	C5
650	R25-10A2-FSW-770-933-0.018	770	800	933	C5
850	R25-10A2-FSW-970-1133-0.018	970	1000	1133	C5
1050	R25-10A2-FSW-1170-1333-0.018	1170	1200	1333	C5
1350	R25-10A2-FSW-1470-1633-0.018	1470	1500	1633	C5

Precision Ground Ball Screw Series

ST — FSW type (SHAFT OD 28, LEAD 5) miniature



Ballscrew Data	
Direction	Right Hand
Lead (mm)	5
Lead Angle	3.19°
P.C.D (mm)	28.6
RD (mm)	25.324
Steel Ball (mm)	Ø3.175
Circuits	2.5x2
Dynamic Load C (kgf)	1124
Static Load Co (kgf)	2466
Axial Play (mm)	0
Drag Torque (kgf-cm)	0.3~1.7
Spacer Ball	1 : 1

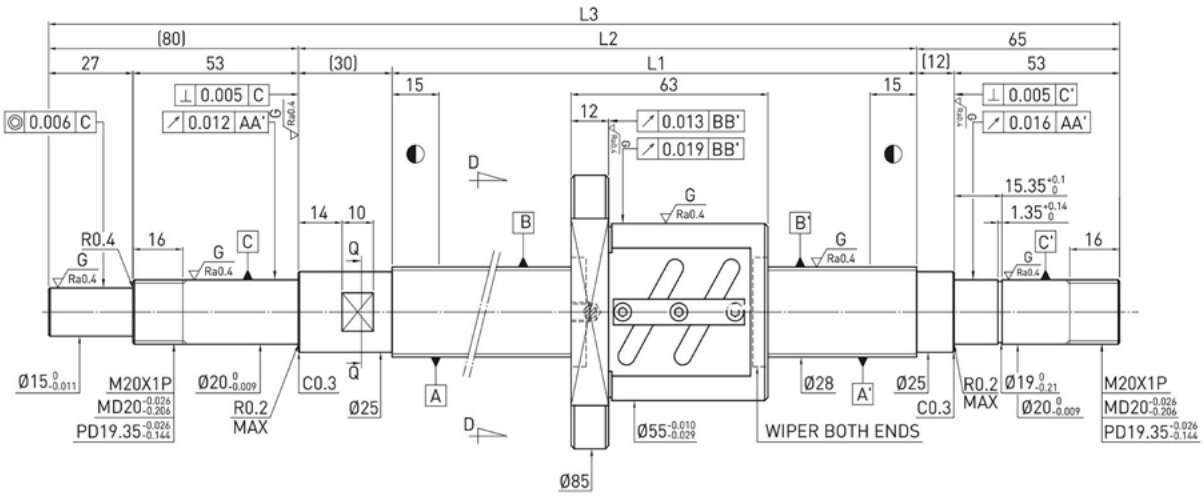


Unit : mm

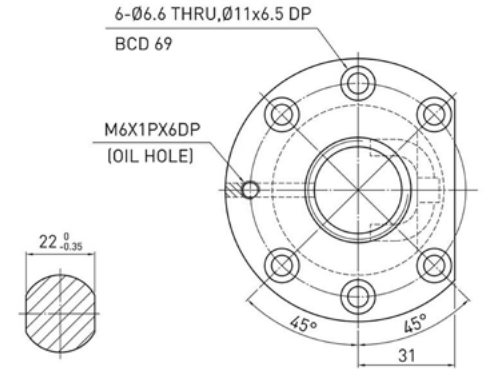
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
200	R28-5B2-FSW-270-445-0.018	270	300	445	C5
300	R28-5B2-FSW-370-545-0.018	370	400	545	C5
400	R28-5B2-FSW-470-645-0.018	470	500	645	C5
450	R28-5B2-FSW-558-733-0.018	558	588	733	C5
650	R28-5B2-FSW-758-933-0.018	758	788	933	C5
850	R28-5B2-FSW-958-1133-0.018	958	988	1133	C5
1050	R28-5B2-FSW-1158-1333-0.018	1158	1188	1333	C5

Precision Ground Ball Screw Series

ST — FSW type (SHAFT OD 28, LEAD 6) miniature



Ballscrew Data	
Direction	Right Hand
Lead (mm)	6
Lead Angle	3.82°
P.C.D (mm)	28.6
RD (mm)	25.324
Steel Ball (mm)	Ø3.175
Circuits	2.5x2
Dynamic Load C (kgf)	1124
Static Load Co (kgf)	2466
Axial Play (mm)	0
Drag Torque (kgf-cm)	0.36~2.04
Spacer Ball	1 : 1

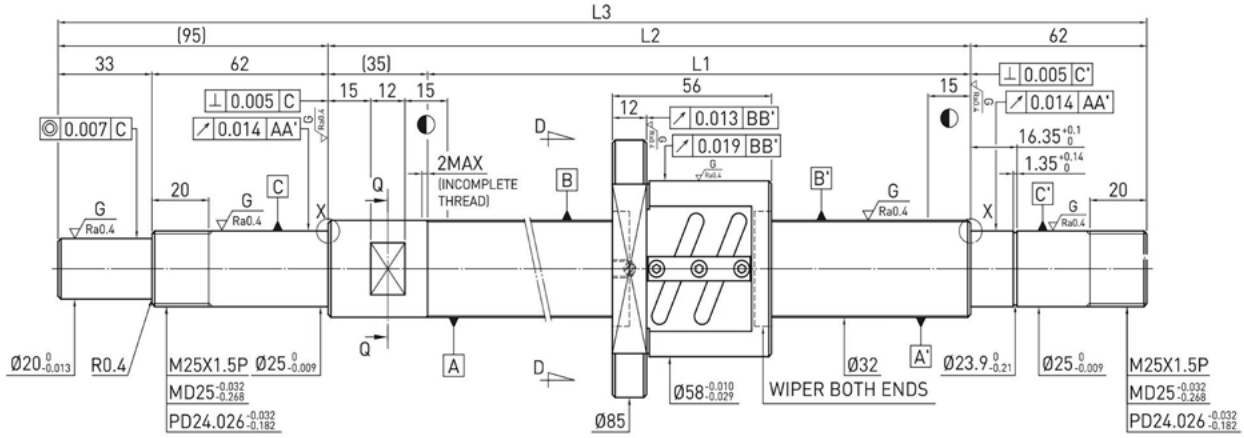


Unit : mm

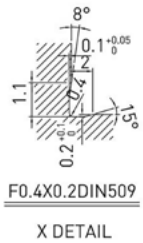
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
250	R28-6B2-FSW-370-545-0.018	370	400	545	C5
450	R28-6B2-FSW-570-745-0.018	570	600	745	C5
650	R28-6B2-FSW-758-933-0.018	758	788	933	C5
850	R28-6B2-FSW-958-1133-0.018	958	988	1133	C5
1050	R28-6B2-FSW-1158-1333-0.018	1158	1188	1333	C5

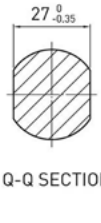
Precision Ground Ball Screw Series

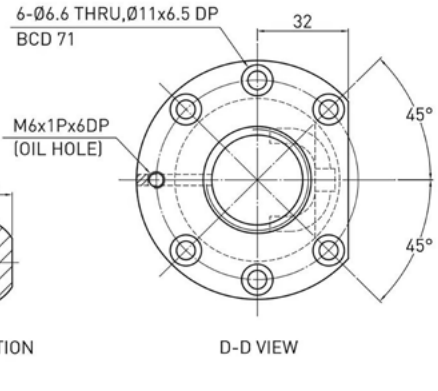
ST — FSW type (SHAFT OD 32, LEAD 5) miniature



Ballscrew Data	
Direction	Right Hand
Lead (mm)	5
Lead Angle	2.79°
P.C.D (mm)	32.6
RD (mm)	29.324
Steel Ball (mm)	Ø3.175
Circuits	2.5x2
Dynamic Load C (kgf)	1188
Static Load Co (kgf)	2833
Axial Play (mm)	0
Drag Torque (kgf-cm)	0.48~1.92
Spacer Ball	1 : 1





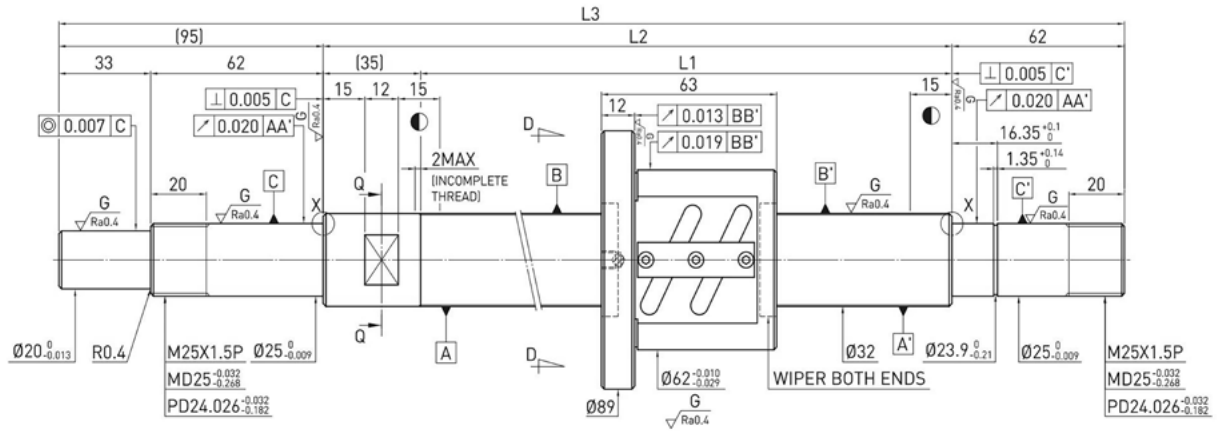


Unit : mm

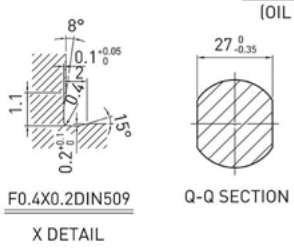
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
150	R32-5B2-FSW-265-457-0.018	265	300	457	C5
250	R32-5B2-FSW-365-557-0.018	365	400	557	C5
350	R32-5B2-FSW-465-657-0.018	465	500	657	C5
450	R32-5B2-FSW-565-757-0.018	565	600	757	C5
550	R32-5B2-FSW-665-857-0.018	665	700	857	C5
650	R32-5B2-FSW-765-957-0.018	765	800	957	C5
850	R32-5B2-FSW-965-1157-0.018	965	1000	1157	C5
1050	R32-5B2-FSW-1165-1357-0.018	1165	1200	1357	C5
1350	R32-5B2-FSW-1465-1657-0.018	1465	1500	1657	C5

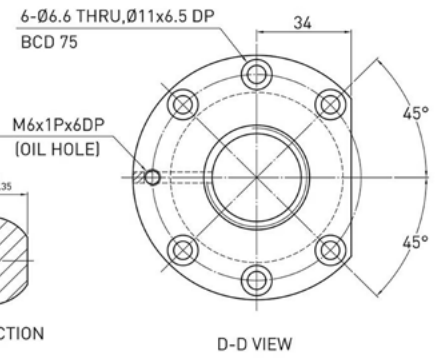
Precision Ground Ball Screw Series

ST — FSW type (SHAFT OD 32, LEAD 6) miniature



Ballscrew Data	
Direction	Right Hand
Lead (mm)	6
Lead Angle	3.33°
P.C.D (mm)	32.8
RD (mm)	28.744
Steel Ball (mm)	Ø3.969
Circuits	2.5x2
Dynamic Load C (kgf)	1610
Static Load Co (kgf)	3510
Axial Play (mm)	0
Drag Torque (kgf-cm)	0.48~2.72
Spacer Ball	1 : 1



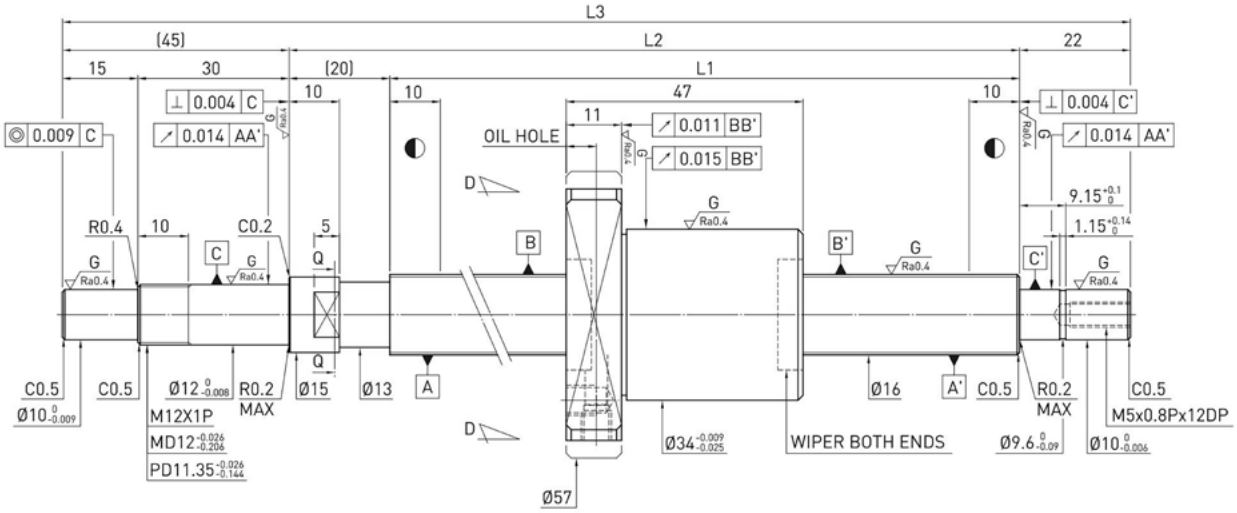


Unit : mm

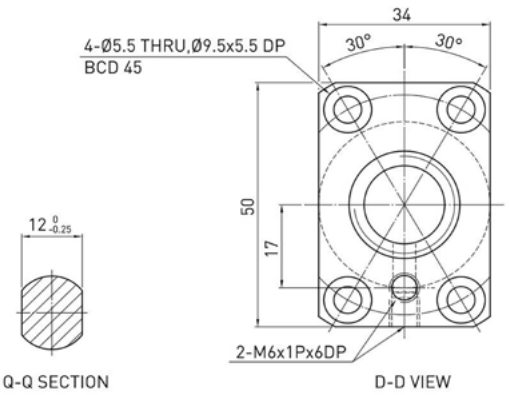
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
250	R32-6B2-FSW-365-557-0.018	365	400	557	C5
450	R32-6B2-FSW-565-757-0.018	565	600	757	C5
650	R32-6B2-FSW-765-957-0.018	765	800	957	C5
850	R32-6B2-FSW-965-1157-0.018	965	1000	1157	C5
1050	R32-6B2-FSW-1165-1357-0.018	1165	1200	1357	C5
1350	R32-6B2-FSW-1465-1657-0.018	1465	1500	1657	C5

Precision Ground Ball Screw Series

ST — FSC type (SHAFT OD 16, LEAD 16) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	16	
Lead Angle	17.06°	
P.C.D (mm)	16.6	
RD (mm)	13.324	
Steel Ball (mm)	Ø3.175	
Circuits	2	
Dynamic Load C (kgf)	420	680
Static Load Co (kgf)	690	1385
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.15~0.79	0.24 MAX
Spacer Ball	1 : 1	-

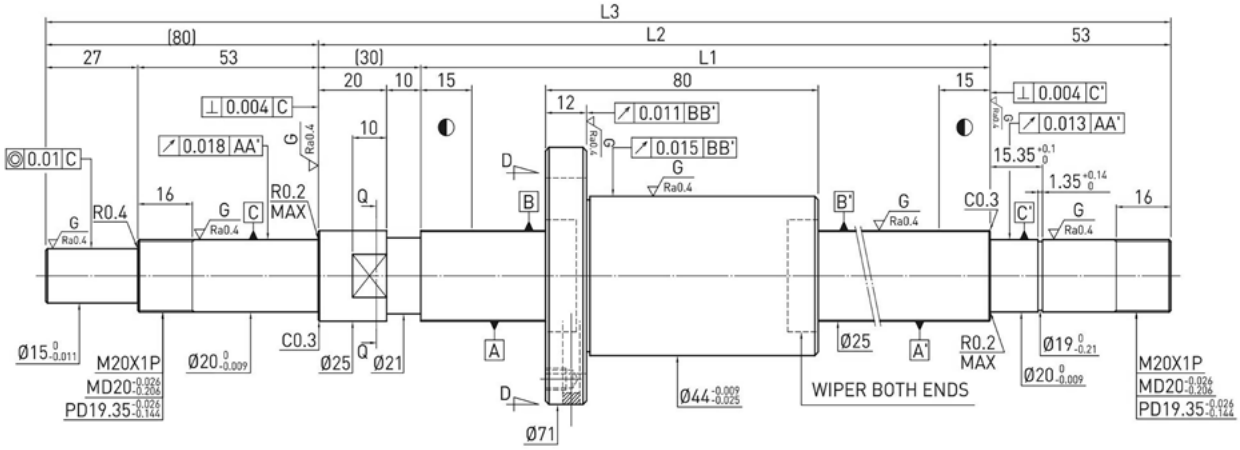


Unit : mm

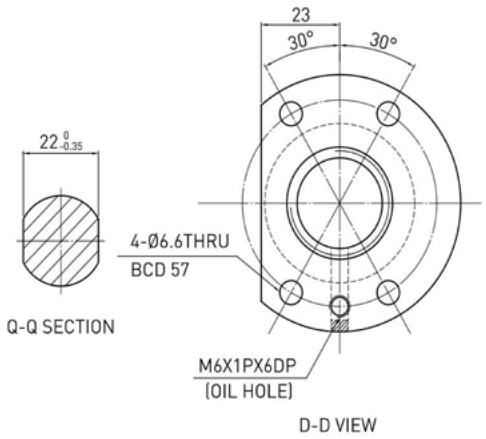
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
100	R16-16K2-FSC-184- 271-0.018	184	204	271	C5
150	R16-16K2-FSC-234- 321-0.018	234	254	321	C5
200	R16-16K2-FSC-284- 371-0.018	284	304	371	C5
250	R16-16K2-FSC-334- 421-0.018	334	354	421	C5
300	R16-16K2-FSC-384- 471-0.018	384	404	471	C5
350	R16-16K2-FSC-434- 521-0.018	434	454	521	C5
400	R16-16K2-FSC-484- 571-0.018	484	504	571	C5
450	R16-16K2-FSC-534- 621-0.018	534	554	621	C5
500	R16-16K2-FSC-584- 671-0.018	584	604	671	C5
550	R16-16K2-FSC-634- 721-0.018	634	654	721	C5
600	R16-16K2-FSC- 684-771-0.018	684	704	771	C5
700	R16-16K2-FSC- 784-871-0.018	784	804	871	C5
800	R16-16K2-FSC- 884-971-0.018	884	904	971	C5
1000	R16-16K2-FSC- 1084-1171-0.018	1084	1104	1171	C5

Precision Ground Ball Screw Series

ST — FSC type (SHAFT OD 25, LEAD 20) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	20	
Lead Angle	13.97°	
P.C.D (mm)	25.6	
RD (mm)	22.324	
Steel Ball (mm)	Ø3.175	
Circuits	3	
Dynamic Load C (kgf)	790	1260
Static Load Co (kgf)	1715	3430
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.4~2.5	0.5 MAX
Spacer Ball	1 : 1	-

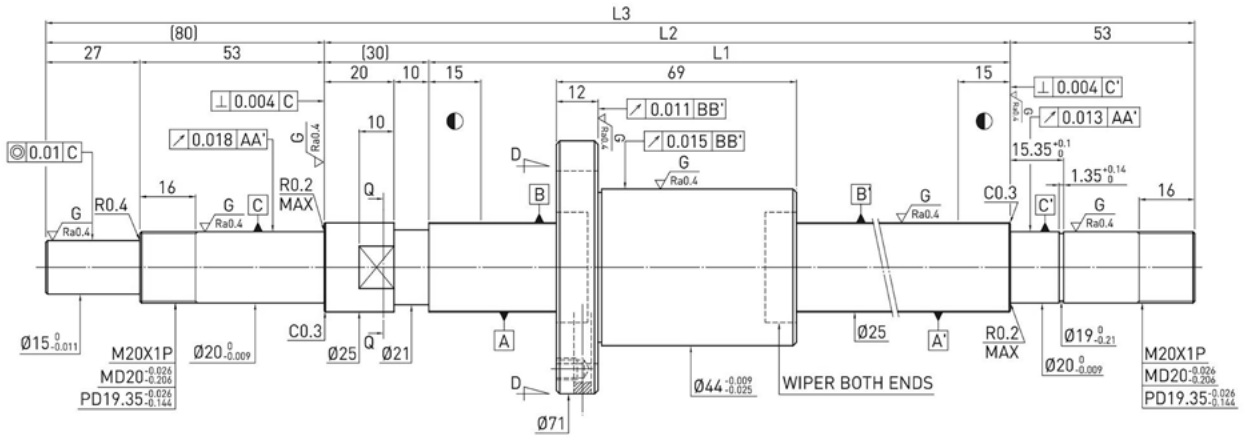


Unit : mm

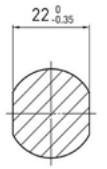
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
600	R25-20K3-FSC- 750- 913-0.018	750	780	913	C5
800	R25-20K3-FSC- 950- 1113-0.018	950	980	1113	C5
1000	R25-20K3-FSC- 1150- 1313-0.018	1150	1180	1313	C5
1200	R25-20K3-FSC- 1350- 1513-0.018	1350	1380	1513	C5
1400	R25-20K3-FSC- 1550- 1713-0.018	1550	1580	1713	C5
1600	R25-20K3-FSC- 1750- 1913-0.018	1750	1780	1913	C5
2000	R25-20K3-FSC- 2150- 2313-0.018	2150	2180	2313	C5

Precision Ground Ball Screw Series

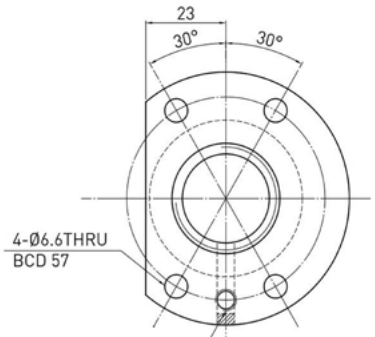
ST — FSC type (SHAFT OD 25, LEAD 25) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	25	
Lead Angle	17.27°	
P.C.D (mm)	25.6	
RD (mm)	22.324	
Steel Ball (mm)	Ø3.175	
Circuits	2	
Dynamic Load C (kgf)	520	840
Static Load Co (kgf)	1085	2170
Axial Play (mm)	0	0.005 MAX
Drag Torque (kgf-cm)	0.4~2.5	0.5 MAX
Spacer Ball	1 : 1	-



Q-Q SECTION



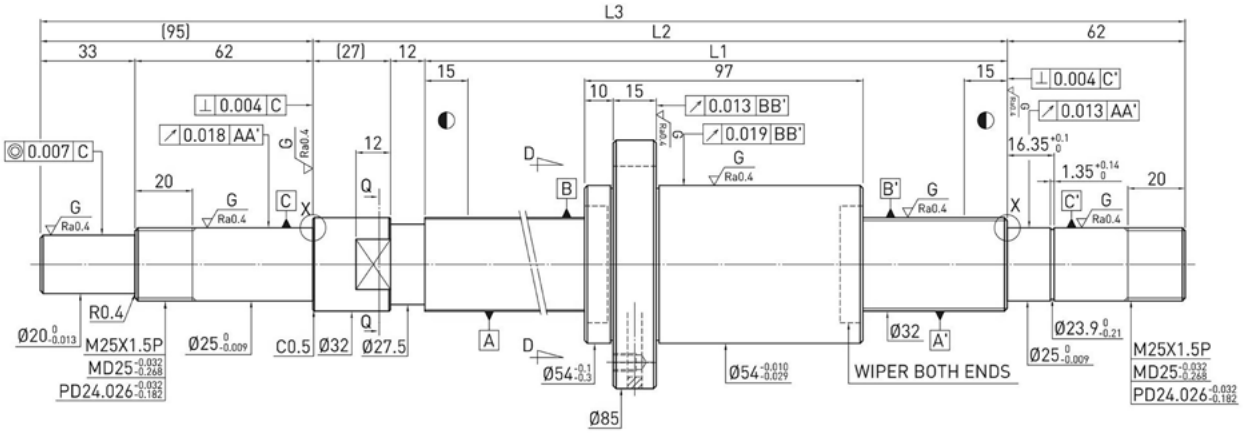
D-D VIEW

Unit : mm

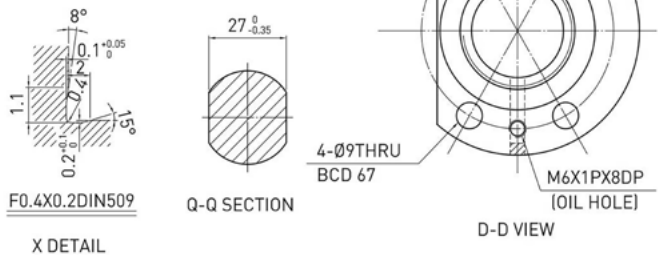
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
600	R25-25K2-FSC-750-913-0.018	750	780	913	C5
800	R25-25K2-FSC-950-1113-0.018	950	980	1113	C5
1000	R25-25K2-FSC-1150-1313-0.018	1150	1180	1313	C5
1200	R25-25K2-FSC-1350-1513-0.018	1350	1380	1513	C5
1400	R25-25K2-FSC-1550-1713-0.018	1550	1580	1713	C5
1600	R25-25K2-FSC-1750-1913-0.018	1750	1780	1913	C5
2000	R25-25K2-FSC-2150-2313-0.018	2150	2180	2313	C5

Precision Ground Ball Screw Series

ST — FSC type (SHAFT OD 32, LEAD 25) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	25	
Lead Angle	13.56°	
P.C.D (mm)	33	
RD (mm)	28.132	
Steel Ball (mm)	Ø4.763	
Circuits	3	
Dynamic Load C (kgf)	1980	3150
Static Load Co (kgf)	4410	8820
Axial Play (mm)	0	0.005MAX
Drag Torque (kgf-cm)	0.69~3.21	0.8MAX
Spacer Ball	1 : 1	-

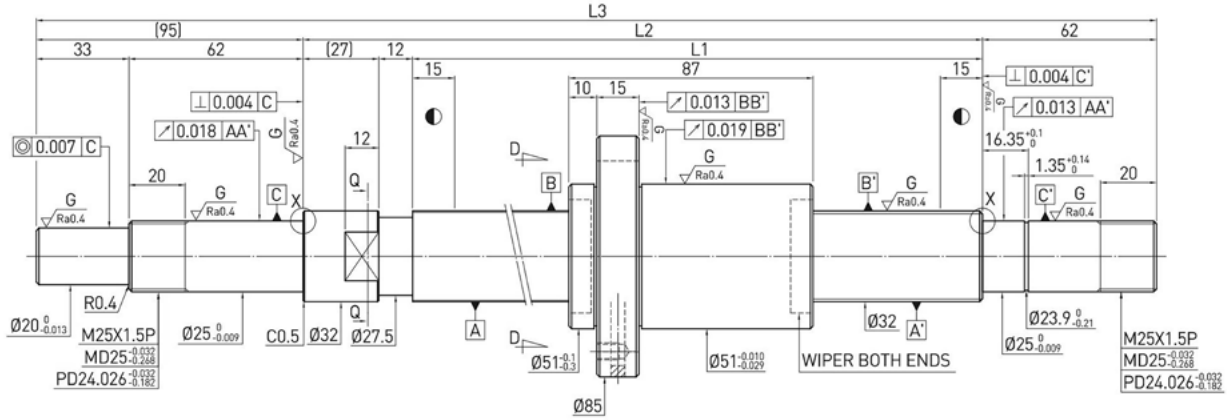


Unit : mm

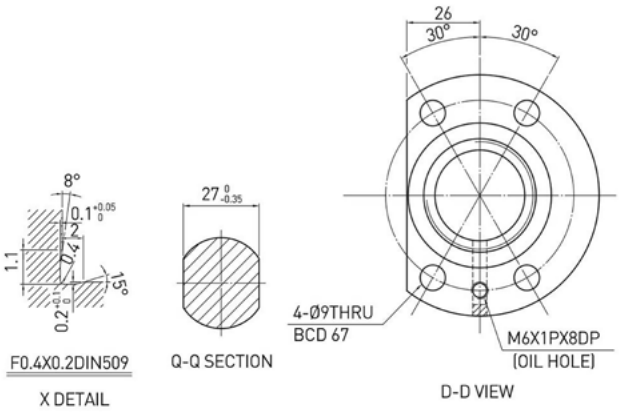
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
1000	R32-25K3-FSC-1180-1376-0.018	1180	1219	1376	C5
1500	R32-25K3-FSC-1680-1876-0.018	1680	1719	1876	C5
2000	R32-25K3-FSC-2180-2376-0.018	2180	2219	2376	C5
2600	R32-25K3-FSC-2780-2976-0.018	2780	2819	2976	C5

Precision Ground Ball Screw Series

ST — FSC type (SHAFT OD 32, LEAD 32) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	32	
Lead Angle	17.25°	
P.C.D (mm)	32.8	
RD (mm)	28.744	
Steel Ball (mm)	Ø3.969	
Circuits	2	
Dynamic Load C (kgf)	800	1280
Static Load Co (kgf)	1765	3530
Axial Play (mm)	0	0.005MAX
Drag Torque (kgf-cm)	0.7~3.21	0.8MAX
Spacer Ball	1 : 1	-

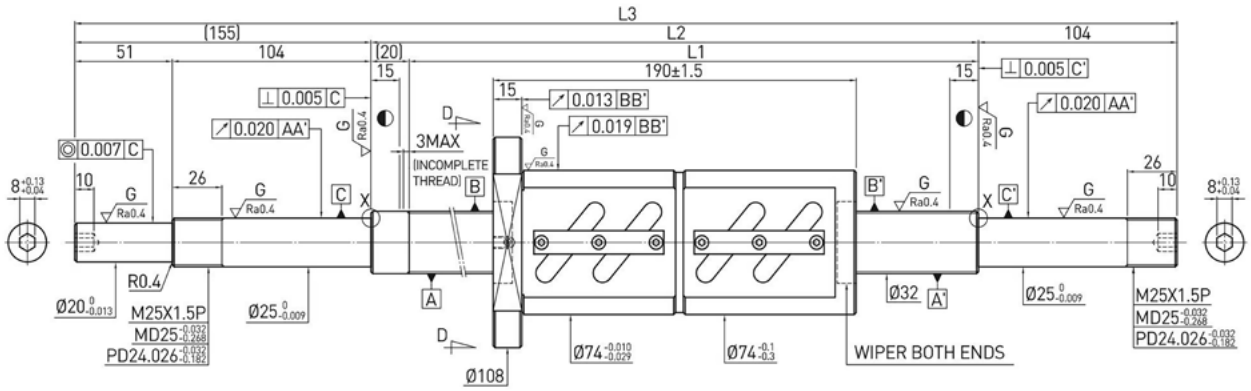


Unit : mm

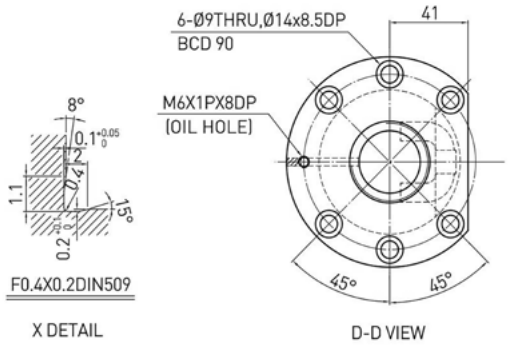
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
1000	R32-32K2-FSC-1180-1376-0.018	1180	1219	1376	C5
1500	R32-32K2-FSC-1680-1876-0.018	1680	1719	1876	C5
2000	R32-32K2-FSC-2180-2376-0.018	2180	2219	2376	C5
2600	R32-32K2-FSC-2780-2976-0.018	2780	2819	2976	C5

Precision Ground Ball Screw Series

ST — FSW type (SHAFT OD 32, LEAD 10) miniature



Ballscrew Data	
Direction	Right Hand
Lead (mm)	10
Lead Angle	5.44°
P.C.D (mm)	33.4
RD (mm)	26.91
Steel Ball (mm)	Ø6.35
Circuits	2.5x2
Dynamic Load C (kgf)	4810
Static Load Co (kgf)	11199
Axial Play (mm)	0
Drag Torque (kgf-cm)	5.51~11.43
Spacer Ball	-

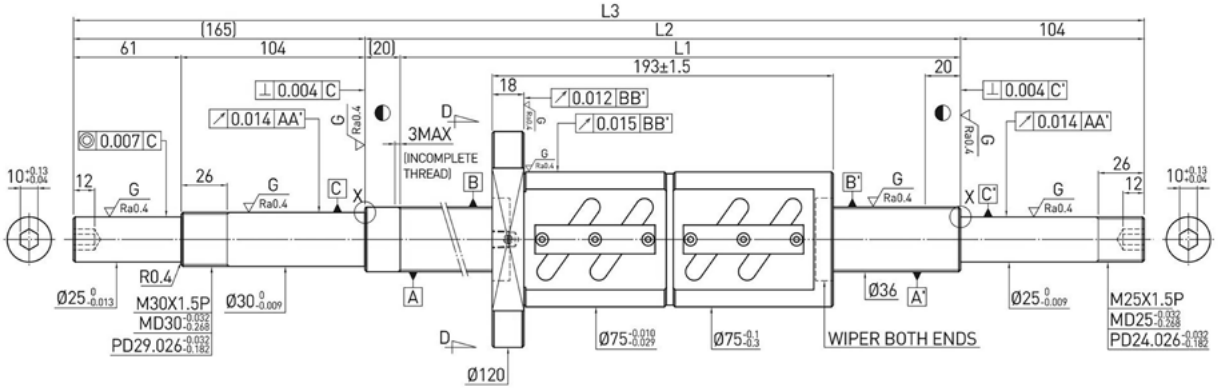


Unit : mm

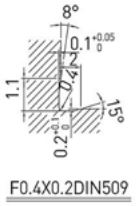
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
150	R32-10B2-FDW-380-659-0.018	380	400	659	C5
250	R32-10B2-FDW-480-759-0.018	480	500	759	C5
350	R32-10B2-FDW-580-859-0.018	580	600	859	C5
450	R32-10B2-FDW-680-959-0.018	680	700	959	C5
550	R32-10B2-FDW-780-1059-0.018	780	800	1059	C5
750	R32-10B2-FDW-980-1259-0.018	980	1000	1259	C5
950	R32-10B2-FDW-1180-1459-0.018	1180	1200	1459	C5
1250	R32-10B2-FDW-1480-1759-0.018	1480	1500	1759	C5
1550	R32-10B2-FDW-1780-2059-0.018	1780	1800	2059	C5

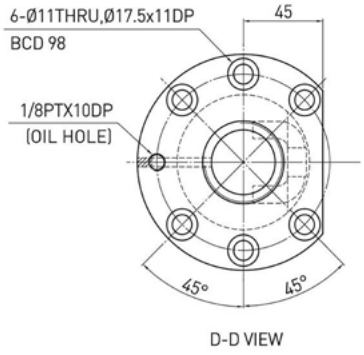
Precision Ground Ball Screw Series

ST — FSW type (SHAFT OD 36, LEAD 10) miniature



Ballscrew Data	
Direction	Right Hand
Lead (mm)	10
Lead Angle	4.86°
P.C.D (mm)	37.4
RD (mm)	30.91
Steel Ball (mm)	Ø6.35
Circuits	2.5x2
Dynamic Load C (kgf)	5105
Static Load Co (kgf)	12668
Axial Play (mm)	0
Drag Torque (kgf-cm)	6.64~12.34
Spacer Ball	-



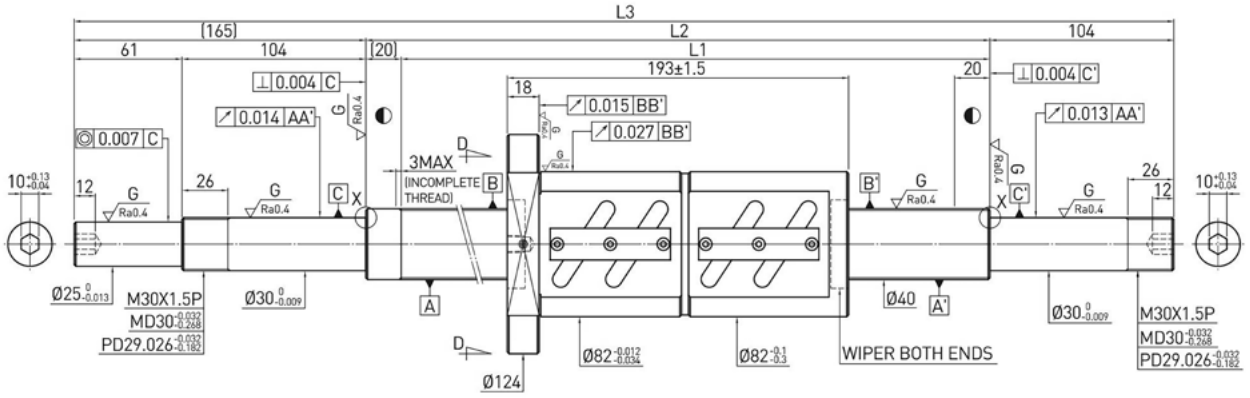


Unit : mm

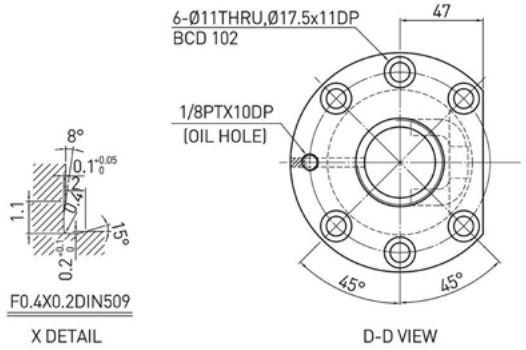
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
250	R36-10B2-FDW-480-769-0.018	480	500	769	C5
450	R36-10B2-FDW-680-969-0.018	680	700	969	C5
750	R36-10B2-FDW-980-1269-0.018	980	1000	1269	C5
1150	R36-10B2-FDW-1380-1669-0.018	1380	1400	1669	C5
1550	R36-10B2-FDW-1780-2069-0.018	1780	1800	2069	C5

Precision Ground Ball Screw Series

ST — FSW type (SHAFT OD 40, LEAD 10) miniature



Ballscrew Data	
Direction	Right Hand
Lead (mm)	10
Lead Angle	4.4°
P.C.D (mm)	41.4
RD (mm)	34.91
Steel Ball (mm)	Ø6.35
Circuits	2.5x2
Dynamic Load C (kgf)	5369
Static Load Co (kgf)	14138
Axial Play (mm)	0
Drag Torque (kgf-cm)	8.26~13.78
Spacer Ball	-

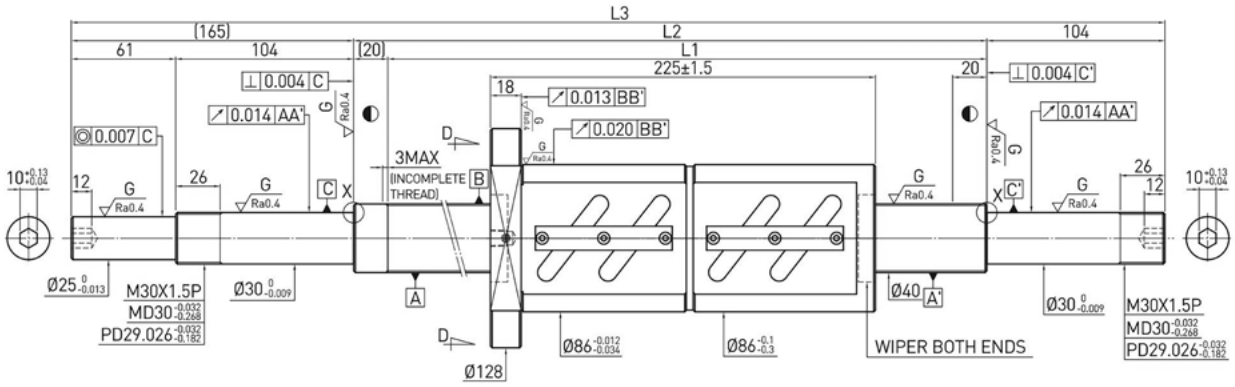


Unit : mm

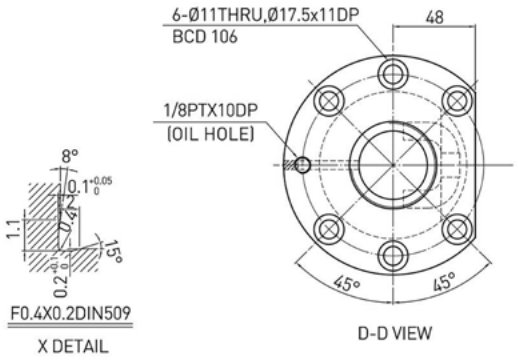
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
250	R40-10B2-FDW-480-769-0.018	480	500	769	C5
350	R40-10B2-FDW-580-869-0.018	580	600	869	C5
450	R40-10B2-FDW-680-969-0.018	680	700	969	C5
550	R40-10B2-FDW-780-1069-0.018	780	800	1069	C5
750	R40-10B2-FDW-980-1269-0.018	980	1000	1269	C5
950	R40-10B2-FDW-1180-1469-0.018	1180	1200	1469	C5
1150	R40-10B2-FDW-1380-1669-0.018	1380	1400	1669	C5
1350	R40-10B2-FDW-1580-1869-0.018	1580	1600	1869	C5
1550	R40-10B2-FDW-1780-2069-0.018	1780	1800	2069	C5
2150	R40-10B2-FDW-2380-2669-0.018	2380	2400	2669	C5

Precision Ground Ball Screw Series

ST — FSW type (SHAFT OD 40, LEAD 12) miniature



Ballscrew Data	
Direction	Right Hand
Lead (mm)	12
Lead Angle	5.25°
P.C.D (mm)	41.6
RD (mm)	34.299
Steel Ball (mm)	Ø7.144
Circuits	2.5x2
Dynamic Load C (kgf)	6216
Static Load Co (kgf)	15614
Axial Play (mm)	0
Drag Torque (kgf-cm)	9.79~18.17
Spacer Ball	-

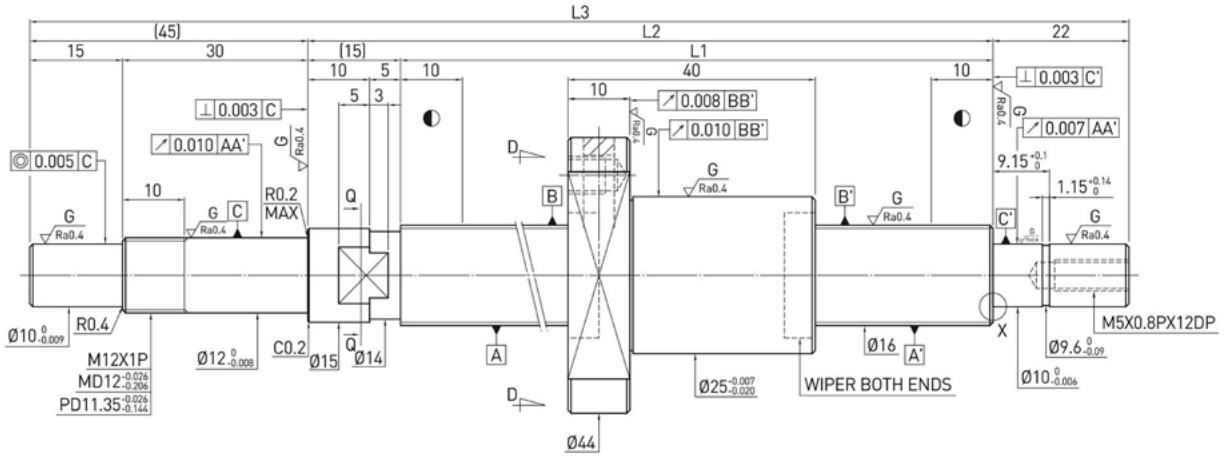


Unit : mm

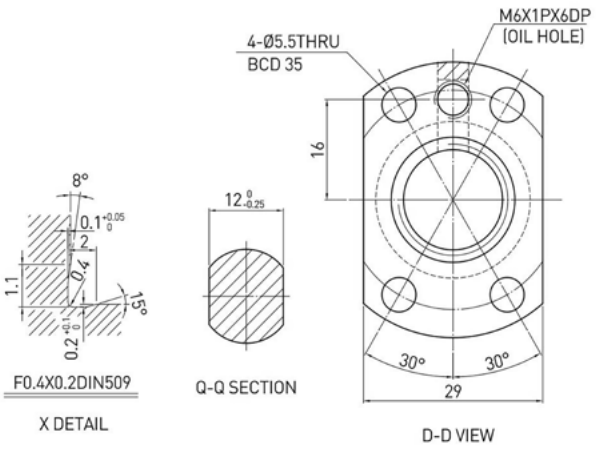
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
400	R40-12B2-FDW-680-969-0.018	680	700	969	C5
700	R40-12B2-FDW-980-1269-0.018	980	1000	1269	C5
1100	R40-12B2-FDW-1380-1669-0.018	1380	1400	1669	C5
1500	R40-12B2-FDW-1780-2069-0.018	1780	1800	2069	C5
2200	R40-12B2-FDW-2480-2769-0.018	2480	2500	2769	C5

Precision Ground Ball Screw Series

ST — FDI type (SHAFT OD 40, LEAD 10) miniature



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	2	
Lead Angle	2.25°	
P.C.D (mm)	16.2	
RD (mm)	14.652	
Steel Ball (mm)	Ø1.5	
Circuits	1x4	
Dynamic Load C (kgf)	323	
Static Load Co (kgf)	790	
Axial Play (mm)	0	0.005MAX
Drag Torque (kgf-cm)	0.05~0.5	0.15MAX
Spacer Ball	-	-

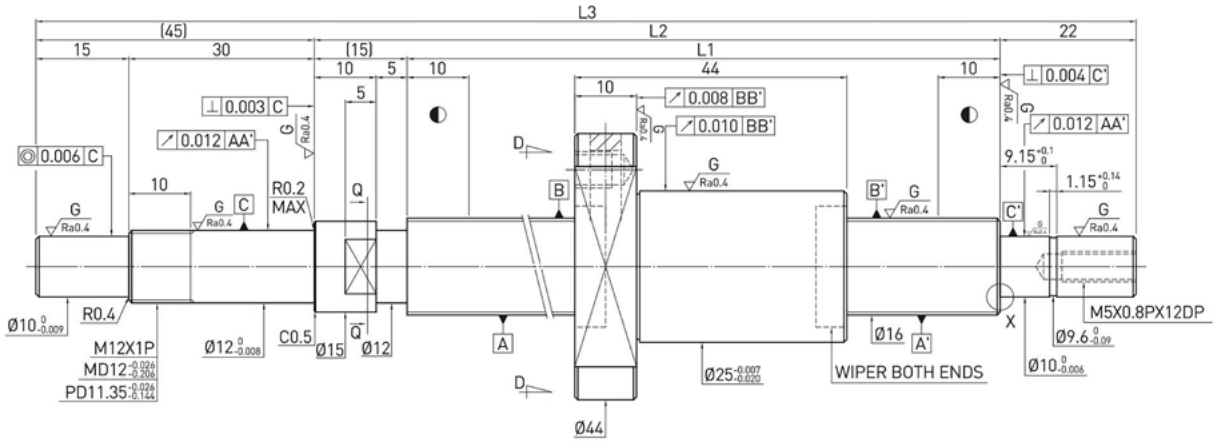


Unit : mm

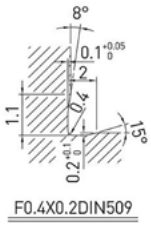
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
50	R16-2T4-FSI-139-221-0.008	139	154	221	C3
100	R16-2T4-FSI-189-271-0.008	189	204	271	C3
150	R16-2T4-FSI-239-321-0.008	239	254	321	C3
200	R16-2T4-FSI-289-371-0.008	289	304	371	C3
300	R16-2T4-FSI-389-471-0.008	389	404	471	C3

Precision Ground Ball Screw Series

ST — FDI type (SHAFT OD 40, LEAD 12) miniature

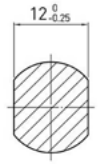


Ballscrew Data		
Direction	Right Hand	
Lead (mm)	2.5	
Lead Angle	2.81°	
P.C.D (mm)	16.2	
RD (mm)	14.652	
Steel Ball (mm)	Ø1.5	
Circuits	1x4	
Dynamic Load C (kgf)	323	
Static Load Co (kgf)	790	
Axial Play (mm)	0	0.005MAX
Drag Torque (kgf-cm)	0.05~0.5	0.15MAX
Spacer Ball	-	-

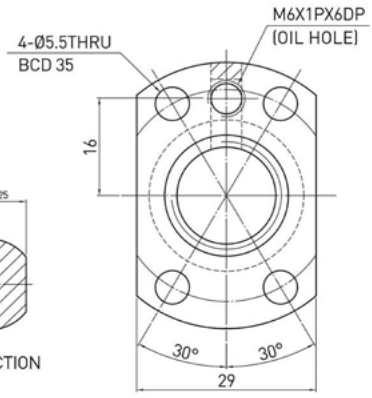


F0.4X0.2DIN509

X DETAIL



Q-Q SECTION



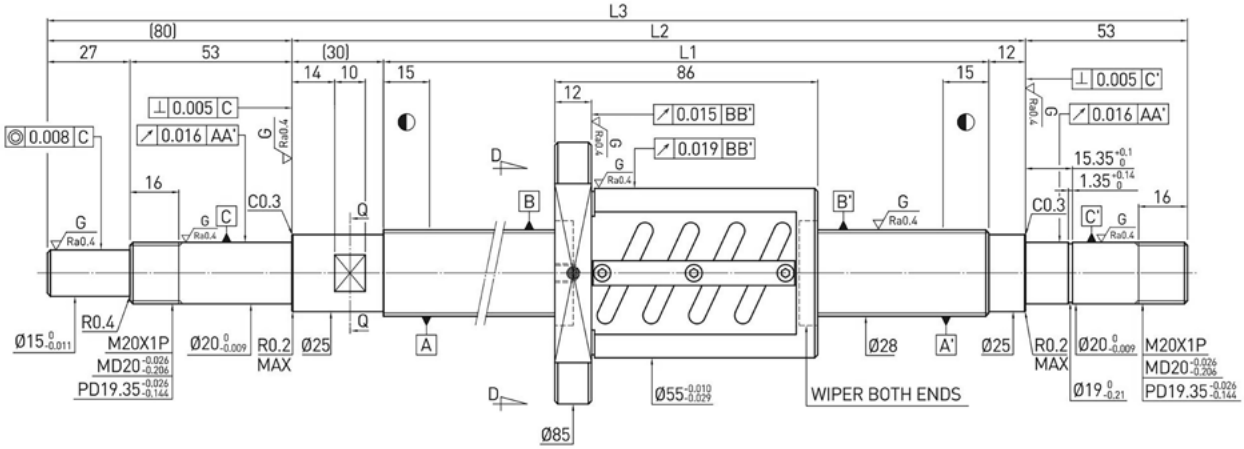
D-D VIEW

Unit : mm

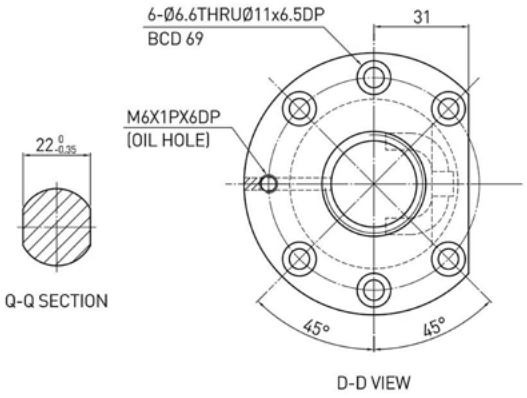
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
50	R16-2.5T4-FSI-139-221-0.008	139	154	221	C3
100	R16-2.5T4-FSI-189-271-0.008	189	204	271	C3
150	R16-2.5T4-FSI-239-321-0.008	239	254	321	C3
200	R16-2.5T4-FSI-289-371-0.008	289	304	371	C3
300	R16-2.5T4-FSI-389-471-0.008	389	404	471	C3

Precision Ground Ball Screw Series

ST — OFSW type (SHAFT OD 16, LEAD 2) standard



Ballscrew Data	
Direction	Right Hand
Lead (mm)	5
Lead Angle	3.19°
P.C.D (mm)	28.6
RD (mm)	25.324
Steel Ball (mm)	Ø3.175
Circuits	2.5x2
Dynamic Load C (kgf)	1784
Static Load Co (kgf)	4932
Axial Play (mm)	0
Drag Torque (kgf-cm)	1.1~3.3
Spacer Ball	-

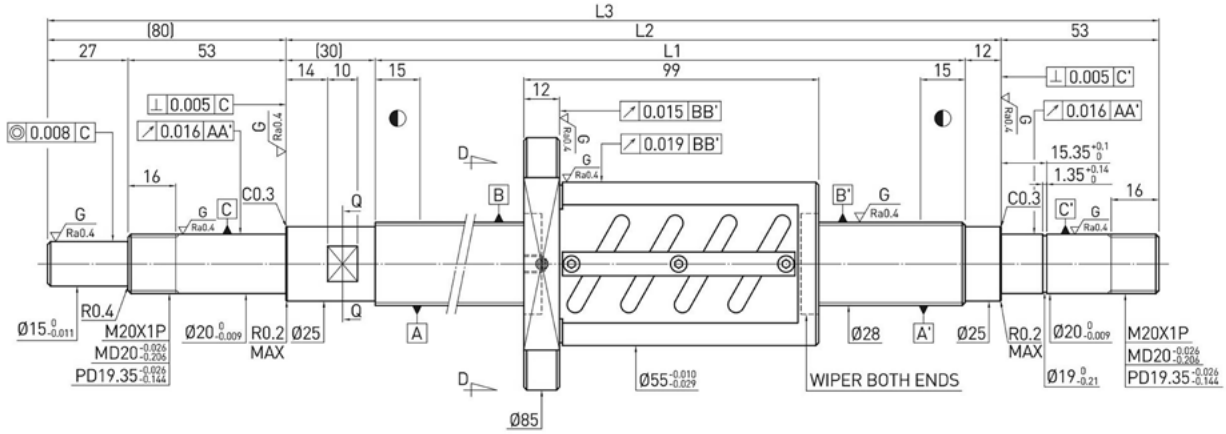


Unit : mm

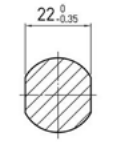
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
150	R28-5B2-OFSW-270-445-0.018	270	312	445	C5
250	R28-5B2-OFSW-370-545-0.018	370	412	545	C5
350	R28-5B2-OFSW-470-645-0.018	470	512	645	C5
450	R28-5B2-OFSW-558-733-0.018	558	600	733	C5
650	R28-5B2-OFSW-758-933-0.018	758	800	933	C5
850	R28-5B2-OFSW-958-1133-0.018	958	1000	1133	C5
1050	R28-5B2-OFSW-1158-1333-0.018	1158	1200	1333	C5

Precision Ground Ball Screw Series

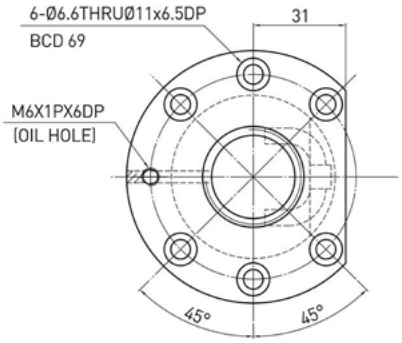
ST — OFSW type (SHAFT OD 28, LEAD 6) standard



Ballscrew Data	
Direction	Right Hand
Lead (mm)	6
Lead Angle	3.82°
P.C.D (mm)	28.6
RD (mm)	25.324
Steel Ball (mm)	Ø3.175
Circuits	2.5x2
Dynamic Load C (kgf)	1784
Static Load Co (kgf)	4932
Axial Play (mm)	0
Drag Torque (kgf-cm)	1.2~3.6
Spacer Ball	-



Q-Q SECTION



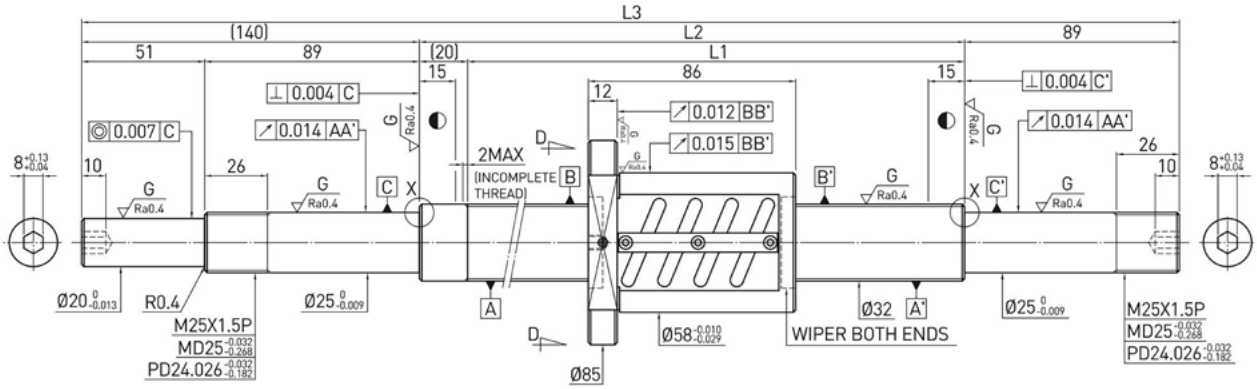
D-D VIEW

Unit : mm

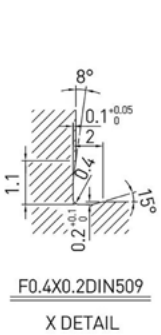
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
250	R28-6B2-OFSW-370-545-0.018	370	412	545	C5
450	R28-6B2-OFSW-570-745-0.018	570	612	745	C5
650	R28-6B2-OFSW-758-933-0.018	758	800	933	C5
850	R28-6B2-OFSW-958-1133-0.018	958	1000	1133	C5
1050	R28-6B2-OFSW-1158-1333-0.018	1158	1200	1333	C5

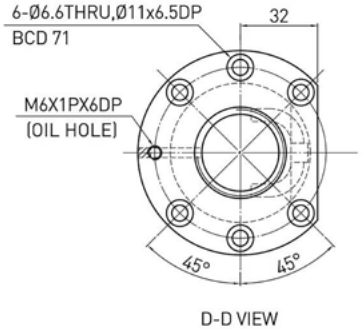
Precision Ground Ball Screw Series

ST — OFSW type (SHAFT OD 32, LEAD 5) standard



Ballscrew Data	
Direction	Right Hand
Lead (mm)	5
Lead Angle	2.79°
P.C.D (mm)	32.6
RD (mm)	29.324
Steel Ball (mm)	Ø3.175
Circuits	2.5x2
Dynamic Load C (kgf)	1886
Static Load Co (kgf)	5666
Axial Play (mm)	0
Drag Torque (kgf-cm)	1.2~3.6
Spacer Ball	-



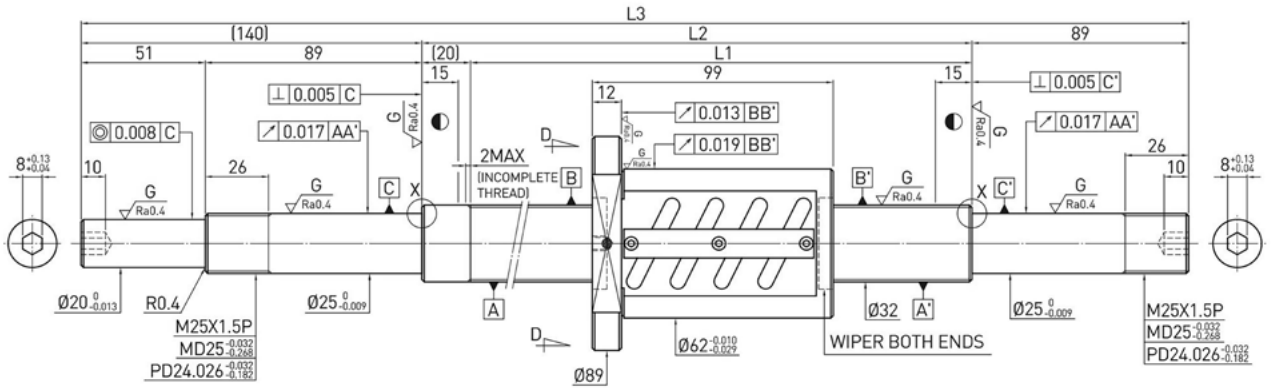


Unit : mm

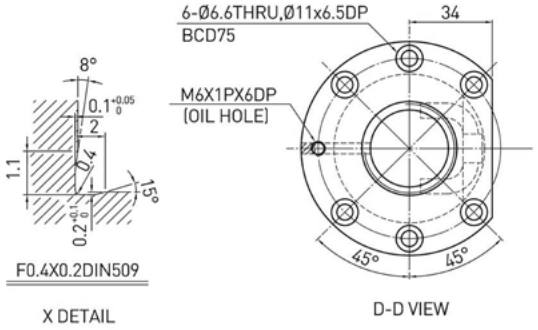
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
150	R32-5B2-OFSW-280-529-0.018	280	300	529	C5
250	R32-5B2-OFSW-380-629-0.018	380	400	629	C5
350	R32-5B2-OFSW-480-729-0.018	480	500	729	C5
450	R32-5B2-OFSW-580-829-0.018	580	600	829	C5
550	R32-5B2-OFSW-680-929-0.018	680	700	929	C5
650	R32-5B2-OFSW-780-1029-0.018	780	800	1029	C5
850	R32-5B2-OFSW-980-1229-0.018	980	1000	1229	C5
1050	R32-5B2-OFSW-1180-1429-0.018	1180	1200	1429	C5
1350	R32-5B2-OFSW-1480-1729-0.018	1480	1500	1729	C5

Precision Ground Ball Screw Series

ST — OFSW type (SHAFT OD 32, LEAD 6) standard



Ballscrew Data	
Direction	Right Hand
Lead (mm)	6
Lead Angle	3.33°
P.C.D (mm)	32.8
RD (mm)	28.744
Steel Ball (mm)	Ø3.969
Circuits	2.5x2
Dynamic Load C (kgf)	2556
Static Load Co (kgf)	7019
Axial Play (mm)	0
Drag Torque (kgf-cm)	2.32~4.82
Spacer Ball	-

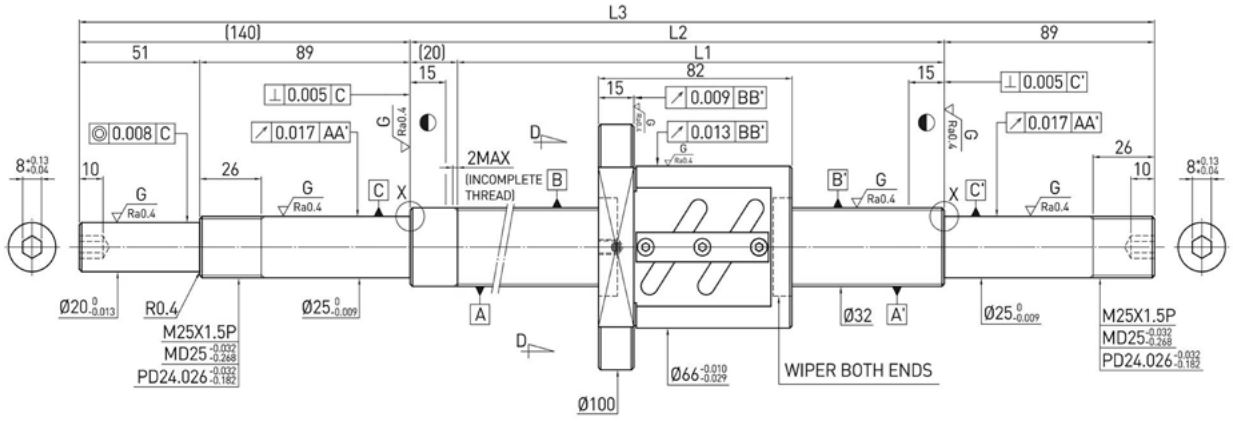


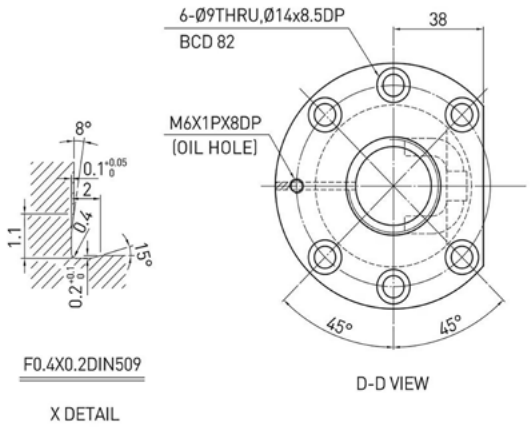
Unit : mm

Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
250	R32-6B2-OFSW-380-629-0.018	380	400	629	C5
450	R32-6B2-OFSW-580-829-0.018	580	600	829	C5
650	R32-6B2-OFSW-780-1029-0.018	780	800	1029	C5
850	R32-6B2-OFSW-980-1229-0.018	980	1000	1229	C5
1050	R32-6B2-OFSW-1180-1429-0.018	1180	1200	1429	C5
1350	R32-6B2-OFSW-1480-1729-0.018	1480	1500	1729	C5

Precision Ground Ball Screw Series

ST — OFSW type (SHAFT OD 32, LEAD 8) standard





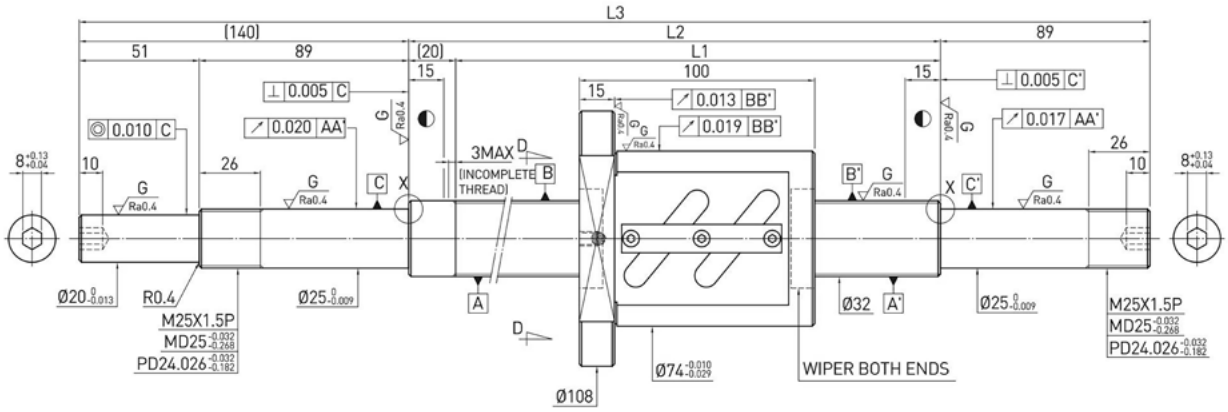
Ballscrew Data	
Direction	Right Hand
Lead (mm)	8
Lead Angle	4.41°
P.C.D (mm)	33
RD (mm)	28.132
Steel Ball (mm)	Ø4.763
Circuits	2.5x1
Dynamic Load C (kgf)	2650
Static Load Co (kgf)	5599
Axial Play (mm)	0
Drag Torque (kgf-cm)	1.26~5.06
Spacer Ball	-

Unit : mm

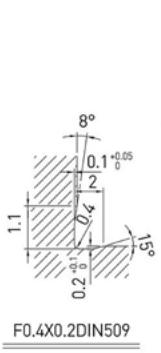
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
250	R32-8B1-OFSW-380-629-0.018	380	400	629	C5
450	R32-8B1-OFSW-580-829-0.018	580	600	829	C5
650	R32-8B1-OFSW-780-1029-0.018	780	800	1029	C5
850	R32-8B1-OFSW-980-1229-0.018	980	1000	1229	C5
1350	R32-8B1-OFSW-1480-1729-0.018	1480	1500	1729	C5

Precision Ground Ball Screw Series

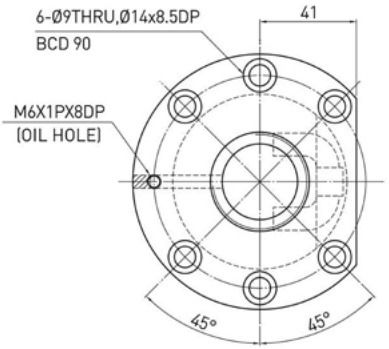
ST — OFSW type (SHAFT OD 32, LEAD 10) standard



Ballscrew Data	
Direction	Right Hand
Lead (mm)	10
Lead Angle	5.44°
P.C.D (mm)	33.4
RD (mm)	26.91
Steel Ball (mm)	Ø6.35
Circuits	2.5x1
Dynamic Load C (kgf)	2650
Static Load Co (kgf)	5599
Axial Play (mm)	0
Drag Torque (kgf-cm)	3.58~7.44
Spacer Ball	-



X DETAIL



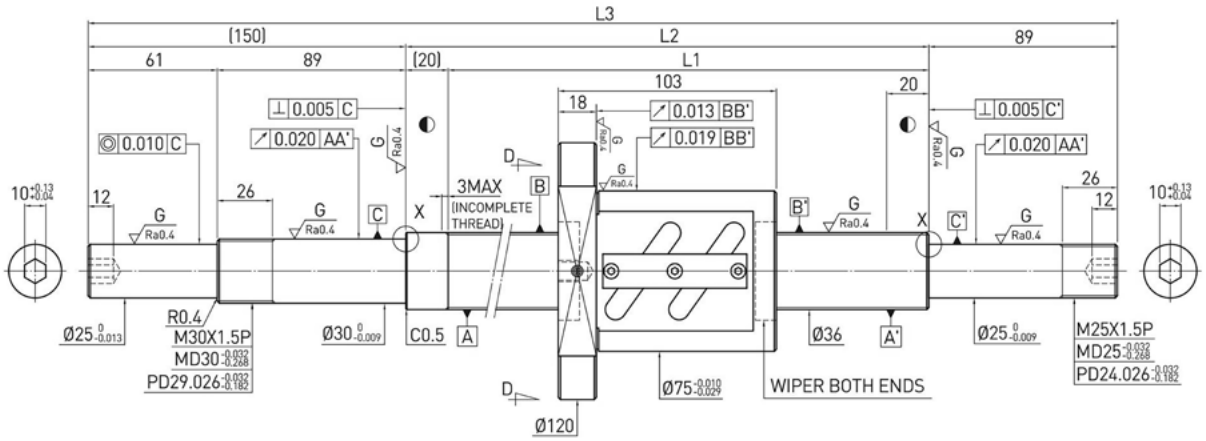
D-D VIEW

Unit : mm

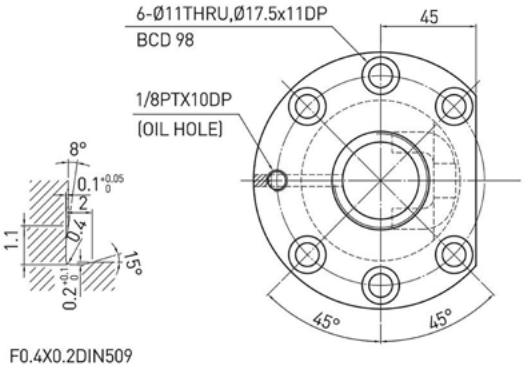
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
250	R32-10B1-OFSW-380-629-0.018	380	400	629	C5
350	R32-10B1-OFSW-480-729-0.018	480	500	729	C5
450	R32-10B1-OFSW-580-829-0.018	580	600	829	C5
550	R32-10B1-OFSW-680-929-0.018	680	700	929	C5
650	R32-10B1-OFSW-780-1029-0.018	780	800	1029	C5
850	R32-10B1-OFSW-980-1229-0.018	980	1000	1229	C5
1050	R32-10B1-OFSW-1180-1429-0.018	1180	1200	1429	C5
1350	R32-10B1-OFSW-1480-1729-0.018	1480	1500	1729	C5
1650	R32-10B1-OFSW-1780-2029-0.018	1780	1800	2029	C5

Precision Ground Ball Screw Series

ST — OFSW type (SHAFT OD 36, LEAD 10) standard



Ballscrew Data	
Direction	Right Hand
Lead (mm)	10
Lead Angle	4.84°
P.C.D (mm)	37.4
RD (mm)	30.91
Steel Ball (mm)	Ø6.35
Circuits	2.5x1
Dynamic Load C (kgf)	2812
Static Load Co (kgf)	6334
Axial Play (mm)	0
Drag Torque (kgf-cm)	3.91~8.13
Spacer Ball	-

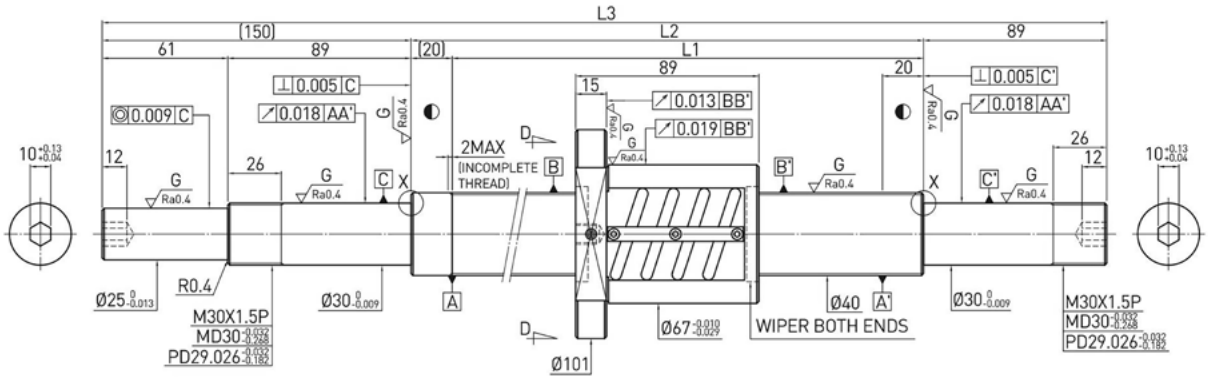


Unit : mm

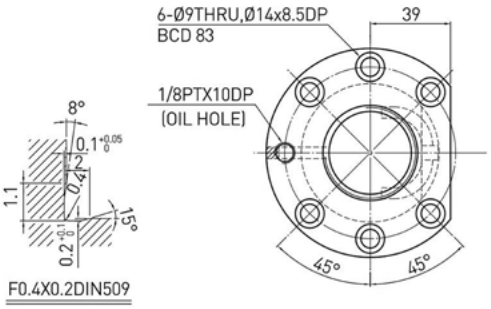
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
350	R36-10B1-OFSW-480-739-0.018	480	500	739	C5
550	R36-10B1-OFSW-680-939-0.018	680	700	939	C5
850	R36-10B1-OFSW-980-1239-0.018	980	1000	1239	C5
1250	R36-10B1-OFSW-1380-1639-0.018	1380	1400	1639	C5
1650	R36-10B1-OFSW-1780-2039-0.018	1780	1800	2039	C5

Precision Ground Ball Screw Series

ST — OFSW type (SHAFT OD 40, LEAD 5) standard



Ballscrew Data	
Direction	Right Hand
Lead (mm)	5
Lead Angle	2.24°
P.C.D (mm)	40.6
RD (mm)	37.324
Steel Ball (mm)	Ø3.175
Circuits	2.5x2
Dynamic Load C (Kgf)	2070
Static Load Co (Kgf)	7134
Axial Play (mm)	0
Drag Torque (Kgf-cm)	1.81~4.21
Spacer Ball	-

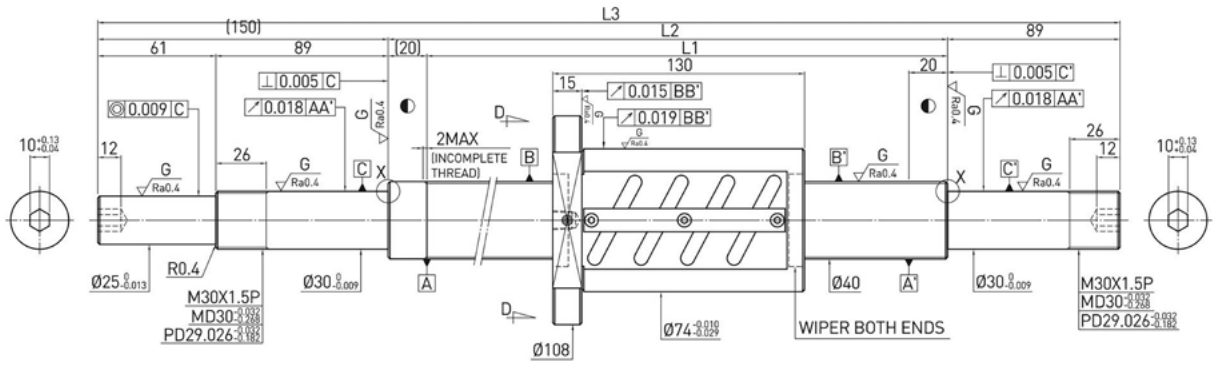


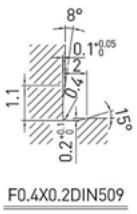
Unit : mm

Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
250	R40-5B2-OFSW-380-639-0.018	380	400	639	C5
450	R40-5B2-OFSW-580-839-0.018	580	600	839	C5
650	R40-5B2-OFSW-780-1039-0.018	780	800	1039	C5
850	R40-5B2-OFSW-980-1239-0.018	980	1000	1239	C5
1050	R40-5B2-OFSW-1180-1439-0.018	1180	1200	1439	C5
1450	R40-5B2-OFSW-1580-1839-0.018	1580	1600	1839	C5

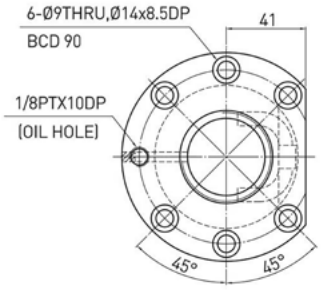
Precision Ground Ball Screw Series

ST — OFSW type (SHAFT OD 40, LEAD 8) standard





X DETAIL



D-D VIEW

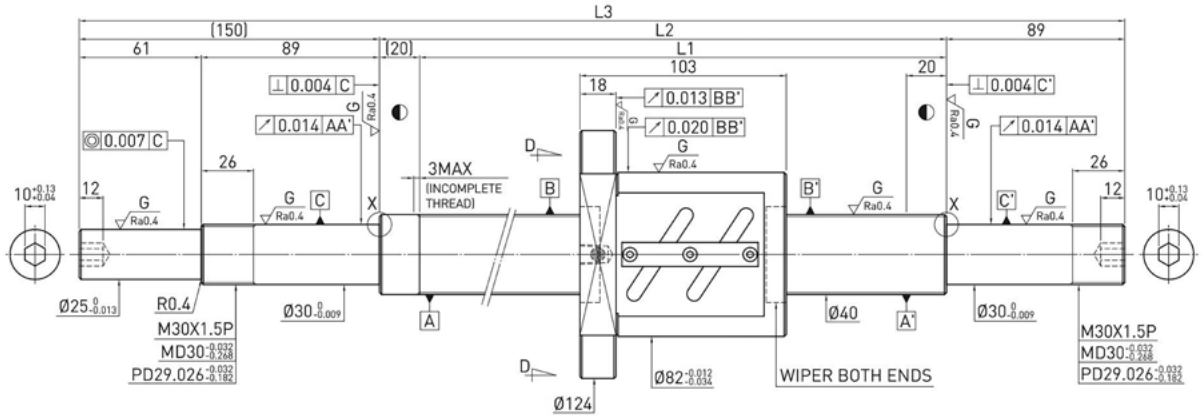
Ballscrew Data	
Direction	Right Hand
Lead (mm)	8
Lead Angle	3.55°
P.C.D (mm)	41
RD (mm)	36.132
Steel Ball (mm)	Ø4.763
Circuits	2.5x2
Dynamic Load C (kgf)	3634
Static Load Co (kgf)	10603
Axial Play (mm)	0
Drag Torque (kgf-cm)	4.24~8.82
Spacer Ball	-

Unit : mm

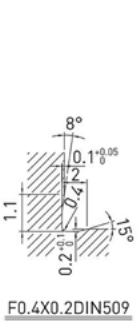
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
200	R40-8B2-OFSW-380-639-0.018	380	400	639	C5
400	R40-8B2-OFSW-580-839-0.018	580	600	839	C5
600	R40-8B2-OFSW-780-1039-0.018	780	800	1039	C5
800	R40-8B2-OFSW-980-1239-0.018	980	1000	1239	C5
1000	R40-8B2-OFSW-1180-1439-0.018	1180	1200	1439	C5
1400	R40-8B2-OFSW-1580-1839-0.018	1580	1600	1839	C5

Precision Ground Ball Screw Series

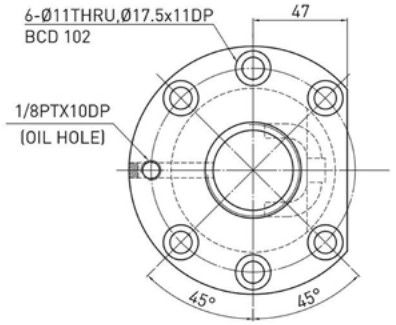
ST — OFSW type (SHAFT OD 40, LEAD 10) standard



Ballscrew Data	
Direction	Right Hand
Lead (mm)	10
Lead Angle	4.4°
P.C.D (mm)	41.4
RD (mm)	34.91
Steel Ball (mm)	Ø6.35
Circuits	2.5x1
Dynamic Load C (kgf)	2958
Static Load Co (kgf)	7069
Axial Play (mm)	0
Drag Torque (kgf-cm)	4.57~8.49
Spacer Ball	-



X DETAIL



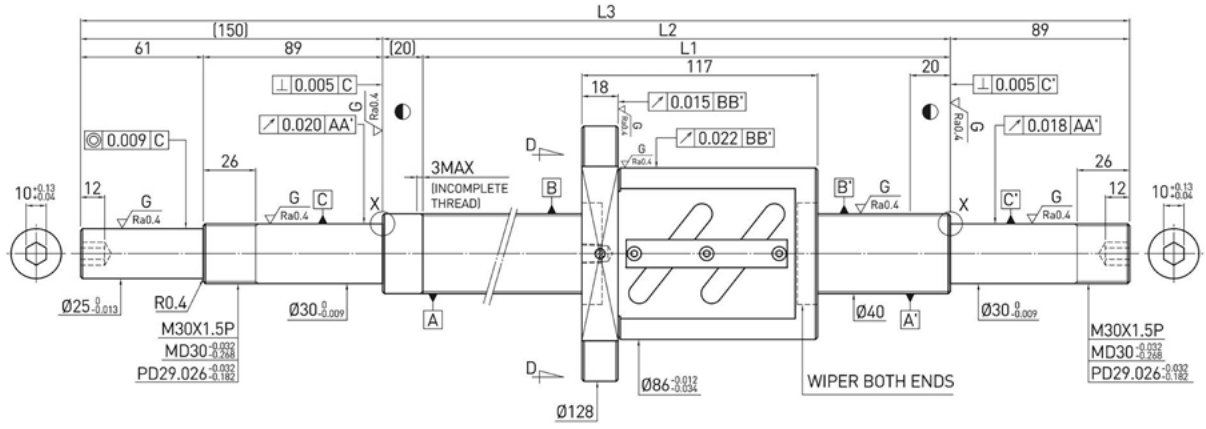
D-D VIEW

Unit : mm

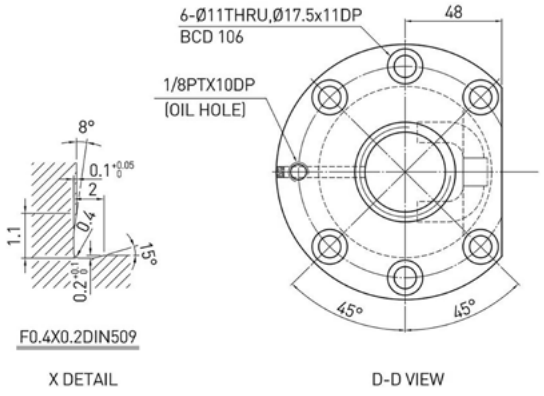
Stroke		L1	L2	L3	Accuracy grade
350	R40-10B1-OFSW-480-739-0.018	480	500	739	C5
450	R40-10B1-OFSW-580-839-0.018	580	600	839	C5
550	R40-10B1-OFSW-680-939-0.018	680	700	939	C5
650	R40-10B1-OFSW-780-1039-0.018	780	800	1039	C5
850	R40-10B1-OFSW-980-1239-0.018	980	1000	1239	C5
1050	R40-10B1-OFSW-1180-1439-0.018	1180	1200	1439	C5
1250	R40-10B1-OFSW-1380-1639-0.018	1380	1400	1639	C5
1450	R40-10B1-OFSW-1580-1839-0.018	1580	1600	1839	C5
1650	R40-10B1-OFSW-1780-2039-0.018	1780	1800	2039	C5
2250	R40-10B1-OFSW-2380-2639-0.018	2380	2400	2639	C5

Precision Ground Ball Screw Series

ST — OFSW type (SHAFT OD 40, LEAD 12) standard



Ballscrew Data	
Direction	Right Hand
Lead (mm)	12
Lead Angle	5.25°
P.C.D (mm)	41.6
RD (mm)	34.299
Steel Ball (mm)	Ø7.144
Circuits	2.5x1
Dynamic Load C (kgf)	3425
Static Load Co (kgf)	7837
Axial Play (mm)	0
Drag Torque (kgf-cm)	5.93~11.01
Spacer Ball	-

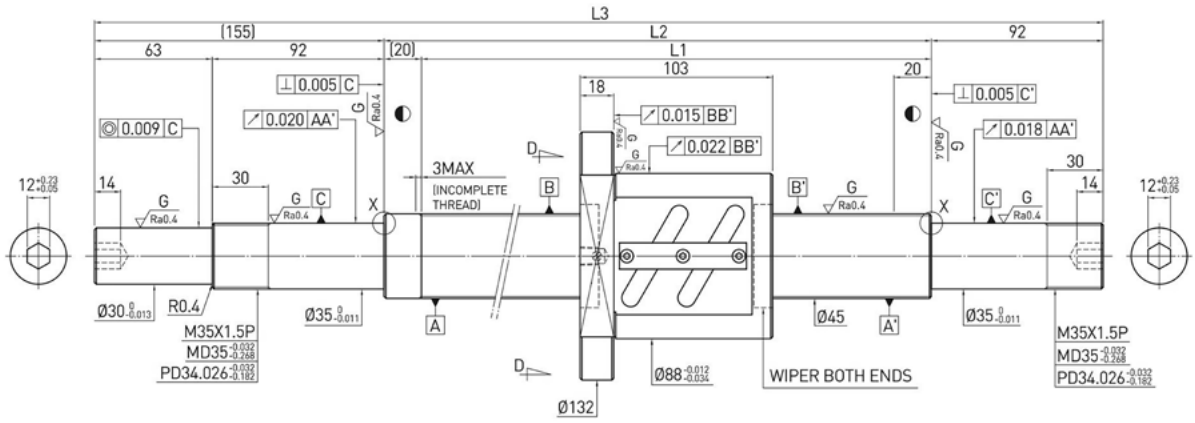


Unit : mm

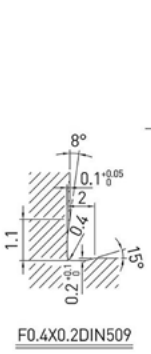
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
500	R40-12B1-OFSW-680-939-0.018	680	700	939	C5
800	R40-12B1-OFSW-980-1239-0.018	980	1000	1239	C5
1200	R40-12B1-OFSW-1380-1639-0.018	1380	1400	1639	C5
1600	R40-12B1-OFSW-1780-2039-0.018	1780	1800	2039	C5
2300	R40-12B1-OFSW-2480-2739-0.018	2480	2500	2739	C5

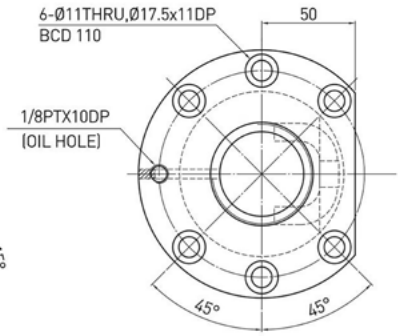
Precision Ground Ball Screw Series

ST — OFSW type (SHAFT OD 45, LEAD 10) standard



Ballscrew Data	
Direction	Right Hand
Lead (mm)	10
Lead Angle	3.92°
P.C.D (mm)	46.4
RD (mm)	39.91
Steel Ball (mm)	Ø6.35
Circuits	2.5x1
Dynamic Load C (kgf)	3115
Static Load Co (kgf)	7952
Axial Play (mm)	0
Drag Torque (kgf-cm)	4.58~9.5
Spacer Ball	-



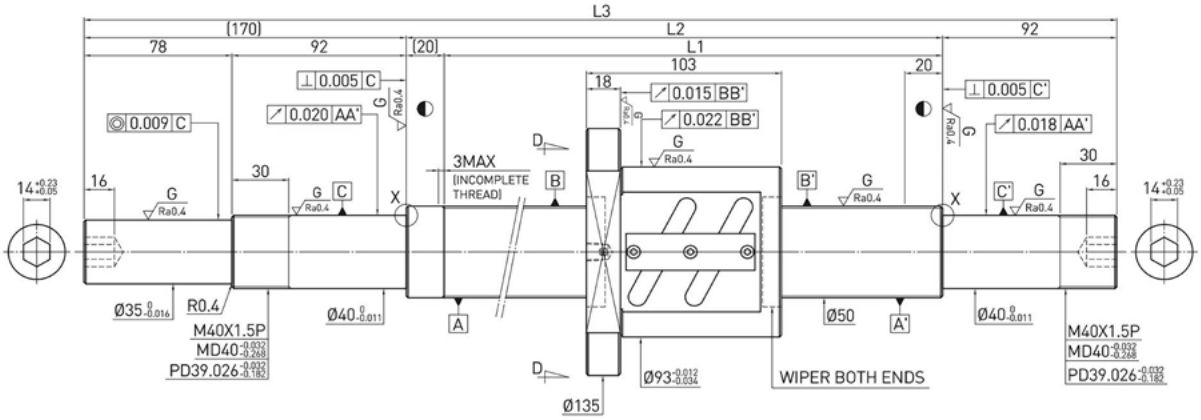


Unit : mm

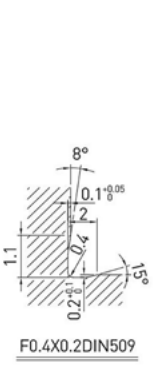
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
550	R45-10B1-OFSW-680-947-0.018	680	700	947	C5
850	R45-10B1-OFSW-980-1247-0.018	980	1000	1247	C5
1250	R45-10B1-OFSW-1380-1647-0.018	1380	1400	1647	C5
1650	R45-10B1-OFSW-1780-2047-0.018	1780	1800	2047	C5
2350	R45-10B1-OFSW-2480-2747-0.018	2480	2500	2747	C5

Precision Ground Ball Screw Series

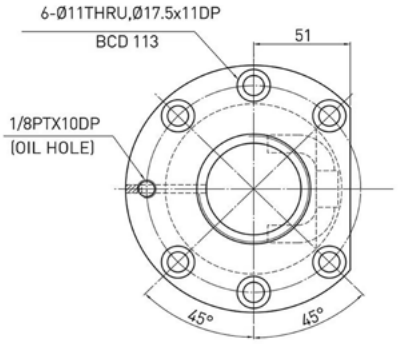
ST — OFSW type (SHAFT OD 45, LEAD 10) standard



Ballscrew Data	
Direction	Right Hand
Lead (mm)	10
Lead Angle	3.54°
P.C.D (mm)	51.4
RD (mm)	44.91
Steel Ball (mm)	Ø6.35
Circuits	2.5x1
Dynamic Load C (kgf)	3263
Static Load Co (kgf)	8835
Axial Play (mm)	0
Drag Torque (kgf-cm)	4.84~11.28
Spacer Ball	-



X DETAIL



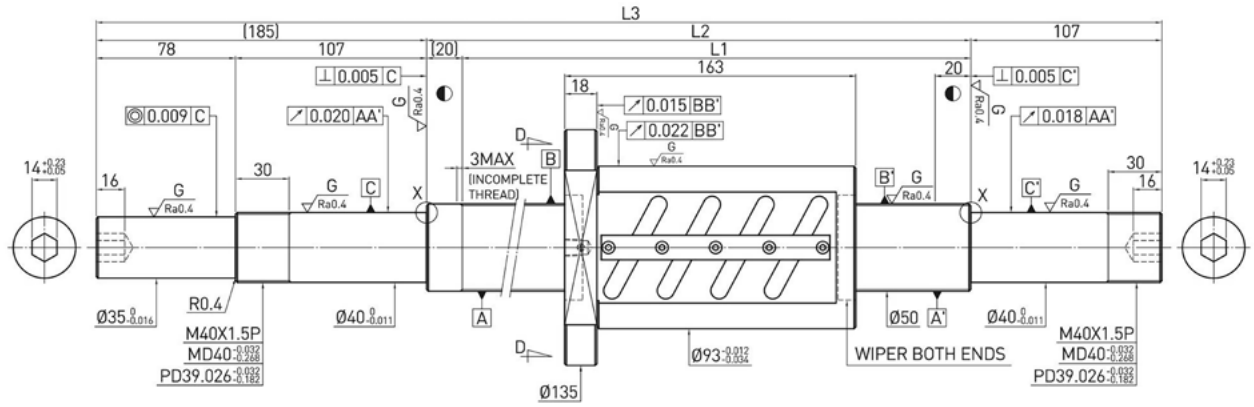
D-D VIEW

Unit : mm

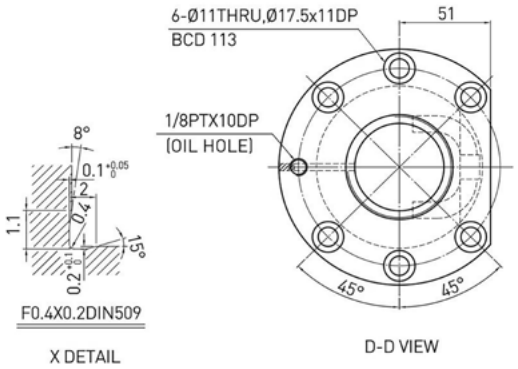
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
450	R50-10B1-OFSW-580-862-0.018	580	600	862	C5
650	R50-10B1-OFSW-780-1062-0.018	780	800	1062	C5
850	R50-10B1-OFSW-980-1262-0.018	980	1000	1262	C5
1050	R50-10B1-OFSW-1180-1462-0.018	1180	1200	1462	C5
1350	R50-10B1-OFSW-1480-1762-0.018	1480	1500	1762	C5
1850	R50-10B1-OFSW-1980-2262-0.018	1980	2000	2262	C5
2450	R50-10B1-OFSW-2580-2862-0.018	2580	2600	2862	C5

Precision Ground Ball Screw Series

ST — OFSW type (SHAFT OD 50, LEAD 10) standard



Ballscrew Data	
Direction	Right Hand
Lead (mm)	10
Lead Angle	3.54°
P.C.D (mm)	51.4
RD (mm)	44.91
Steel Ball (mm)	Ø6.35
Circuits	2.5x2
Dynamic Load C (kgf)	5923
Static Load Co (kgf)	17670
Axial Play (mm)	0
Drag Torque (kgf-cm)	10.48~17.48
Spacer Ball	-



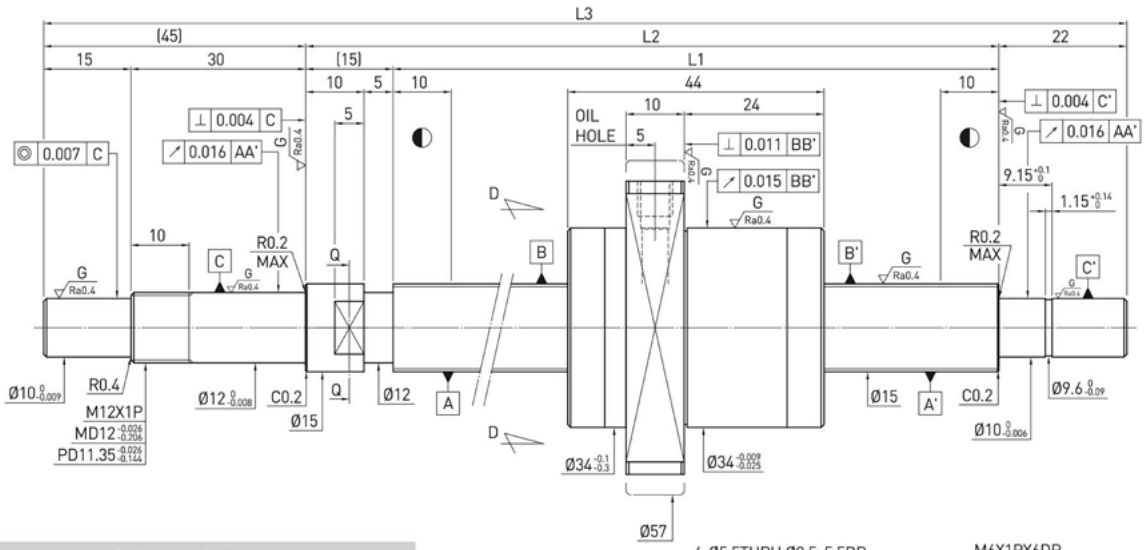
Unit : mm

Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
350	R50-10B2-OFSW-580-892-0.018	580	600	892	C5
550	R50-10B2-OFSW-780-1092-0.018	780	800	1092	C5
750	R50-10B2-OFSW-980-1292-0.018	980	1000	1292	C5
950	R50-10B2-OFSW-1180-1492-0.018	1180	1200	1492	C5
1250	R50-10B2-OFSW-1480-1792-0.018	1480	1500	1792	C5
1750	R50-10B2-OFSW-1980-2292-0.018	1980	2000	2292	C5
2350	R50-10B2-OFSW-2580-2892-0.018	2580	2600	2892	C5

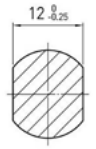
Precision Ground Ball Screw Series

4.5 High Lead Ground Ballscrew

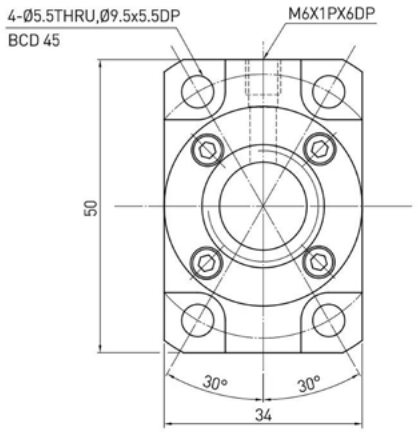
ST — DFSH type (SHAFT OD 15, LEAD 10) high lead



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	10	
Lead Angle	11.53°	
P.C.D (mm)	15.6	
RD (mm)	12.324	
Steel Ball (mm)	Ø3.175	
Circuits	2.8x2	
Dynamic Load C (kgf)	940	1490
Static Load Co (kgf)	1590	3190
Axial Play (mm)	0	0.005MAX
Drag Torque (kgf-cm)	0.2~1	-
Spacer Ball	1 : 1	-



Q-Q SECTION



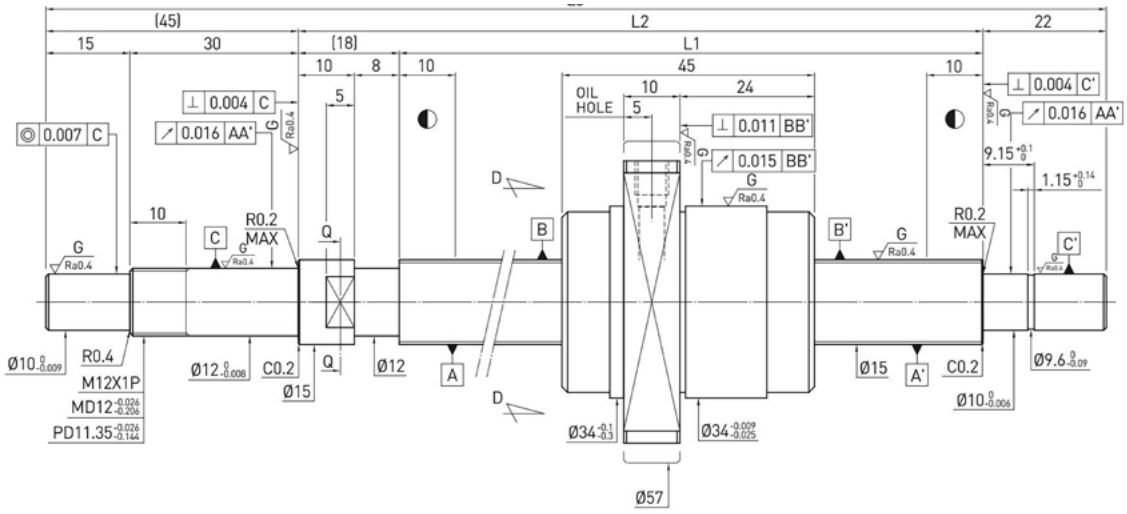
D-D VIEW

Unit : mm

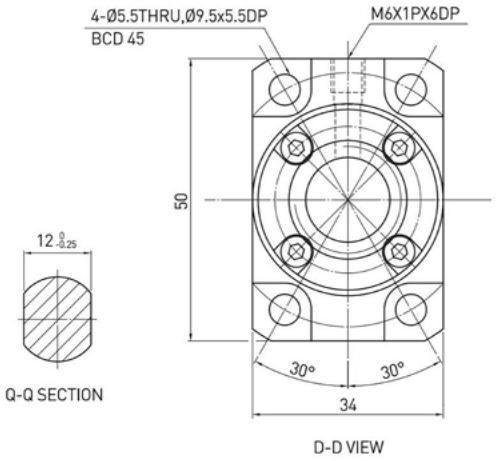
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
150	2R15-10U2-DFSH-239-321-0.018	239	254	321	C5
200	2R15-10U2-DFSH-289-371-0.018	289	304	371	C5
250	2R15-10U2-DFSH-339-421-0.018	339	354	421	C5
300	2R15-10U2-DFSH-389-471-0.018	389	404	471	C5
350	2R15-10U2-DFSH-439-521-0.018	439	454	521	C5
400	2R15-10U2-DFSH-489-571-0.018	489	504	571	C5
450	2R15-10U2-DFSH-539-621-0.018	539	554	621	C5
500	2R15-10U2-DFSH-589-671-0.018	589	604	671	C5
550	2R15-10U2-DFSH-639-721-0.018	639	654	721	C5
600	2R15-10U2-DFSH-689-771-0.018	689	704	771	C5
700	2R15-10U2-DFSH-789-871-0.018	789	804	871	C5
800	2R15-10U2-D FSH-889-971-0.018	889	904	971	C5

Precision Ground Ball Screw Series

ST — DFSH type (SHAFT OD 15, LEAD 20) high lead



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	20	
Lead Angle	22.2°	
P.C.D (mm)	15.6	
RD (mm)	12.324	
Steel Ball (mm)	Ø3.175	
Circuits	1.8x2	
Dynamic Load C (kgf)	620	990
Static Load Co (kgf)	1030	2070
Axial Play (mm)	0	0.005MAX
Drag Torque (kgf-cm)	0.2~0.9	-
Spacer Ball	1 : 1	-

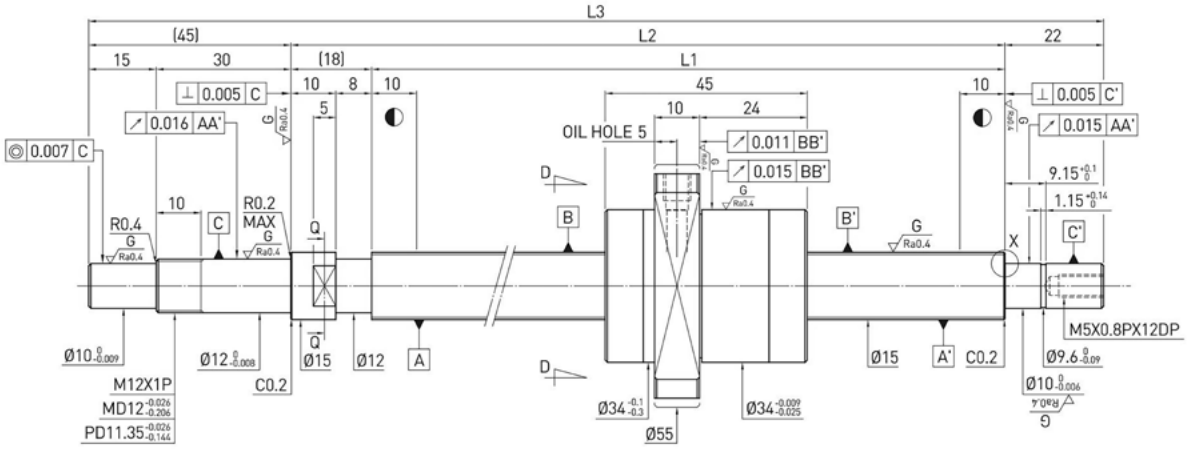


Unit : mm

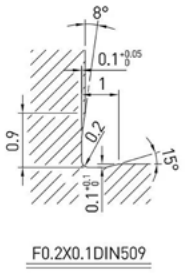
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
150	2R15-20S2-DFSH-236-321-0.018	236	254	321	C5
200	2R15-20S2-DFSH-286-371-0.018	286	304	371	C5
250	2R15-20S2-DFSH-336-421-0.018	336	354	421	C5
300	2R15-20S2-DFSH-386-471-0.018	386	404	471	C5
350	2R15-20S2-DFSH-436-521-0.018	436	454	521	C5
400	2R15-20S2-DFSH-486-571-0.018	486	504	571	C5
450	2R15-20S2-DFSH-536-621-0.018	536	554	621	C5
500	2R15-20S2-DFSH-586-671-0.018	586	604	671	C5
550	2R15-20S2-DFSH-636-721-0.018	636	654	721	C5
600	2R15-20S2-DFSH-686-771-0.018	686	704	771	C5
700	2R15-20S2-DFSH-786-871-0.018	786	804	871	C5
800	2R15-20S2-DFSH-886-971-0.018	886	904	971	C5

Precision Ground Ball Screw Series

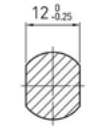
ST — FSH type (SHAFT OD 15, LEAD 20) high lead



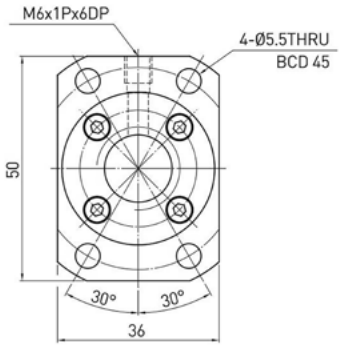
Ballscrew Data		
Direction	Right Hand	
Lead (mm)	20	
Lead Angle	22.2°	
P.C.D (mm)	15.6	
RD (mm)	12.324	
Steel Ball (mm)	Ø3.175	
Circuits	1.8x1	
Dynamic Load C (kgf)	340	540
Static Load Co (kgf)	510	1030
Axial Play (mm)	0	0.005MAX
Drag Torque (kgf-cm)	0.15~0.8	0.24MAX
Spacer Ball	1 : 1	-



X DETAIL



Q-Q SECTION



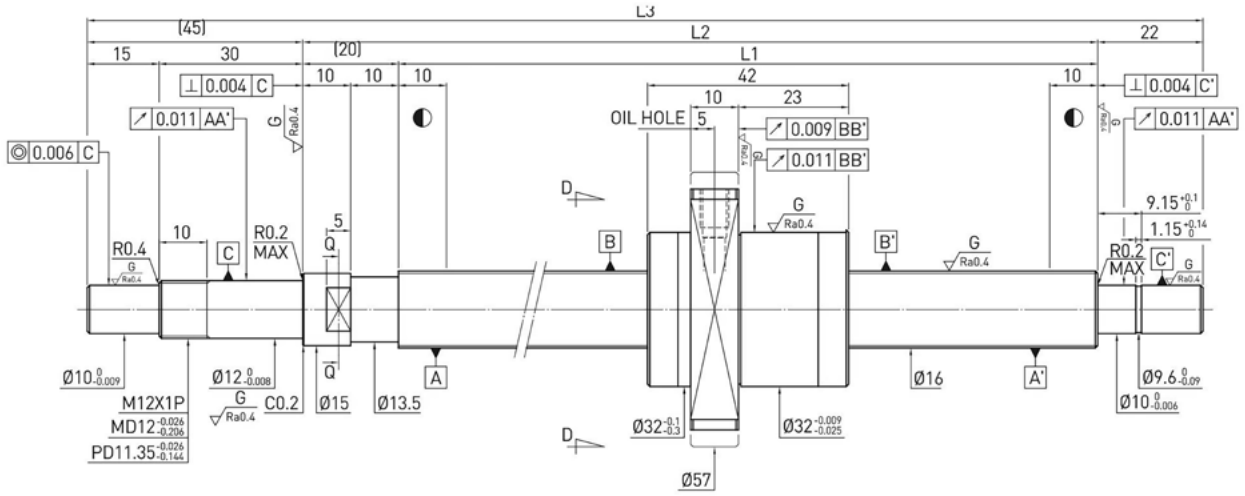
D-D VIEW

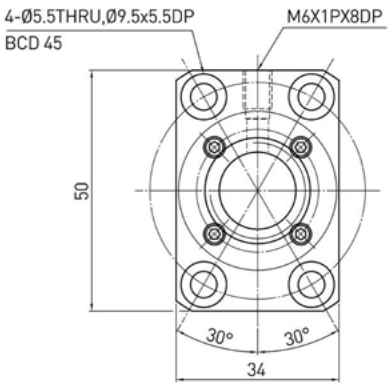
Unit : mm

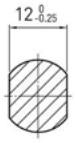
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
100	R15-20S1-FSH-186-271-0.018	186	204	271	C5
150	R15-20S1-FSH-236-321-0.018	236	254	321	C5
200	R15-20S1-FSH-286-371-0.018	286	304	371	C5
250	R15-20S1-FSH-336-421-0.018	336	354	421	C5
300	R15-20S1-FSH-386-471-0.018	386	404	471	C5
350	R15-20S1-FSH-436-521-0.018	436	454	521	C5
400	R15-20S1-FSH-486-571-0.018	486	504	571	C5
450	R15-20S1-FSH-536-621-0.018	536	554	621	C5
500	R15-20S1-FSH-586-671-0.018	586	604	671	C5
550	R15-20S1-FSH-636-721-0.018	636	654	721	C5
600	R15-20S1-FSH-686-771-0.018	686	704	771	C5
700	R15-20S1-FSH-786-871-0.018	786	804	871	C5
800	R15-20S1-FSH-886-971-0.018	886	904	971	C5
1000	R15-20S1-FSH-1086-1171-0.018	1086	1104	1171	C5

Precision Ground Ball Screw Series

ST — DFSH type (SHAFT OD 16, LEAD 16) high lead







Q-Q SECTION

D-D VIEW

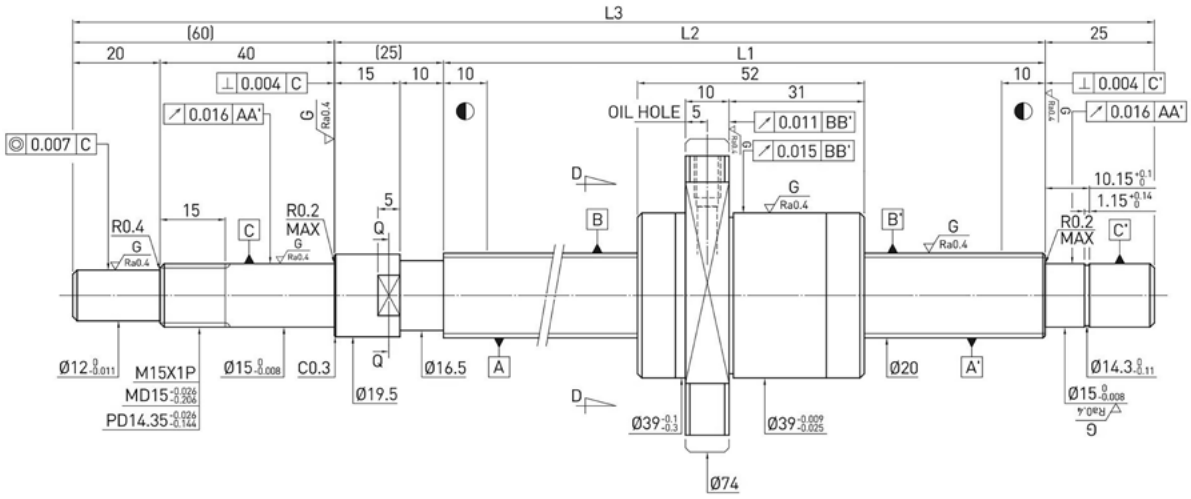
Ballscrew Data		
Direction	Right Hand	
Lead (mm)	16	
Lead Angle	17.06°	
P.C.D (mm)	16.6	
RD (mm)	13.324	
Steel Ball (mm)	Ø3.175	
Circuits	1.8x2	
Dynamic Load C (kgf)	670	1060
Static Load Co (kgf)	1140	2280
Axial Play (mm)	0	0.005MAX
Drag Torque (kgf-cm)	0.2~1	-
Spacer Ball	1 : 1	-

Unit : mm

Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
150	2R16-16S2-DFSH-234-321-0.018	234	254	321	C5
200	2R16-16S2-DFSH-284-371-0.018	284	304	371	C5
250	2R16-16S2-DFSH-334-421-0.018	334	354	421	C5
300	2R16-16S2-DFSH-384-471-0.018	384	404	471	C5
350	2R16-16S2-DFSH-434-521-0.018	434	454	521	C5
400	2R16-16S2-DFSH-484-571-0.018	484	504	571	C5
450	2R16-16S2-DFSH-534-621-0.018	534	554	621	C5
500	2R16-16S2-DFSH-584-671-0.018	584	604	671	C5
550	2R16-16S2-DFSH-634-721-0.018	634	654	721	C5
600	2R16-16S2-DFSH-684-771-0.018	684	704	771	C5
700	2R16-16S2-DFSH-784-871-0.018	784	804	871	C5
800	2R16-16S2-DFSH-884-971-0.018	884	904	971	C5

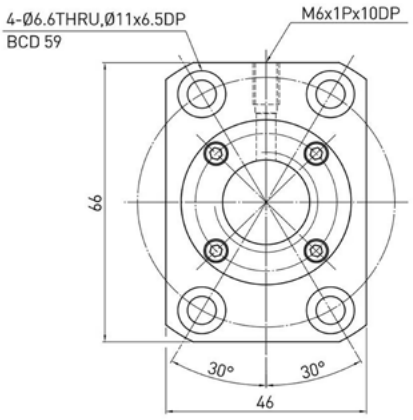
Precision Ground Ball Screw Series

ST — DFSH type (SHAFT OD 20, LEAD 20) high lead



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	20	
Lead Angle	17.17°	
P.C.D (mm)	20.6	
RD (mm)	17.324	
Steel Ball (mm)	Ø3.175	
Circuits	1.8x2	
Dynamic Load C (kgf)	740	1180
Static Load Co (kgf)	1430	2860
Axial Play (mm)	0	0.005MAX
Drag Torque (kgf-cm)	0.1~1	-
Spacer Ball	1 : 1	-

Q-Q SECTION



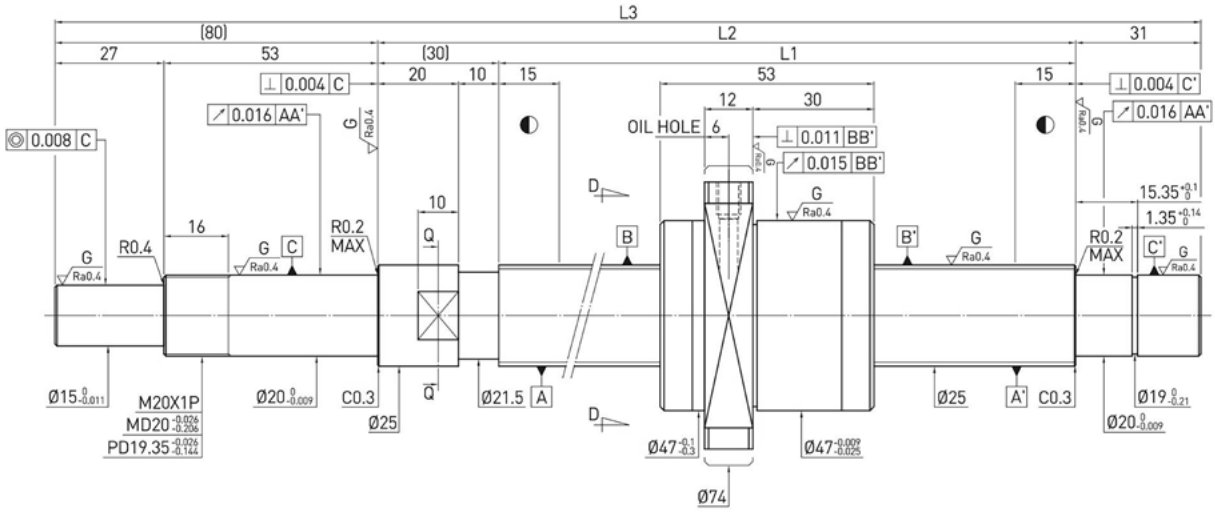
D-D VIEW

Unit : mm

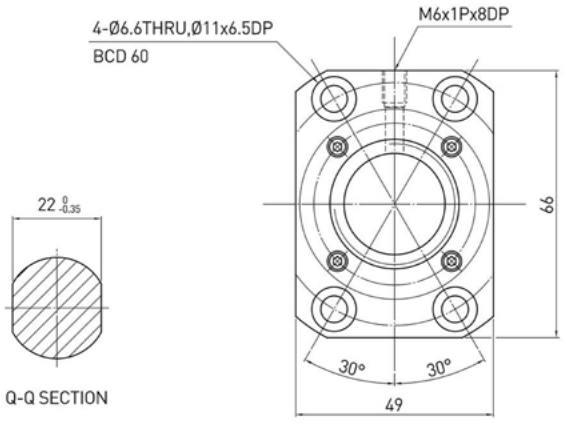
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
300	2R20-20S2-DFSH-410-520-0.018	410	435	520	C5
400	2R20-20S2-DFSH-510-620-0.018	510	535	620	C5
500	2R20-20S2-DFSH-610-720-0.018	610	635	720	C5
600	2R20-20S2-DFSH-710-820-0.018	710	735	820	C5
700	2R20-20S2-DFSH-810-920-0.018	810	835	920	C5
800	2R20-20S2-DFSH-910-1020-0.018	910	935	1020	C5
900	2R20-20S2-DFSH-1010-1120-0.018	1010	1035	1120	C5
1000	2R20-20S2-DFSH-1110-1220-0.018	1110	1135	1220	C5
1100	2R20-20S2-DFSH-1210-1320-0.018	1210	1235	1320	C5

Precision Ground Ball Screw Series

ST — DFSH type (SHAFT OD 20, LEAD 20) high lead



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	20	
Lead Angle	13.86°	
P.C.D (mm)	25.8	
RD (mm)	21.744	
Steel Ball (mm)	Ø3.969	
Circuits	1.8x2	
Dynamic Load C (kgf)	1140	1810
Static Load Co (kgf)	2270	4540
Axial Play (mm)	0	0.005MAX
Drag Torque (kgf-cm)	0.2~1	-
Spacer Ball	1 : 1	-



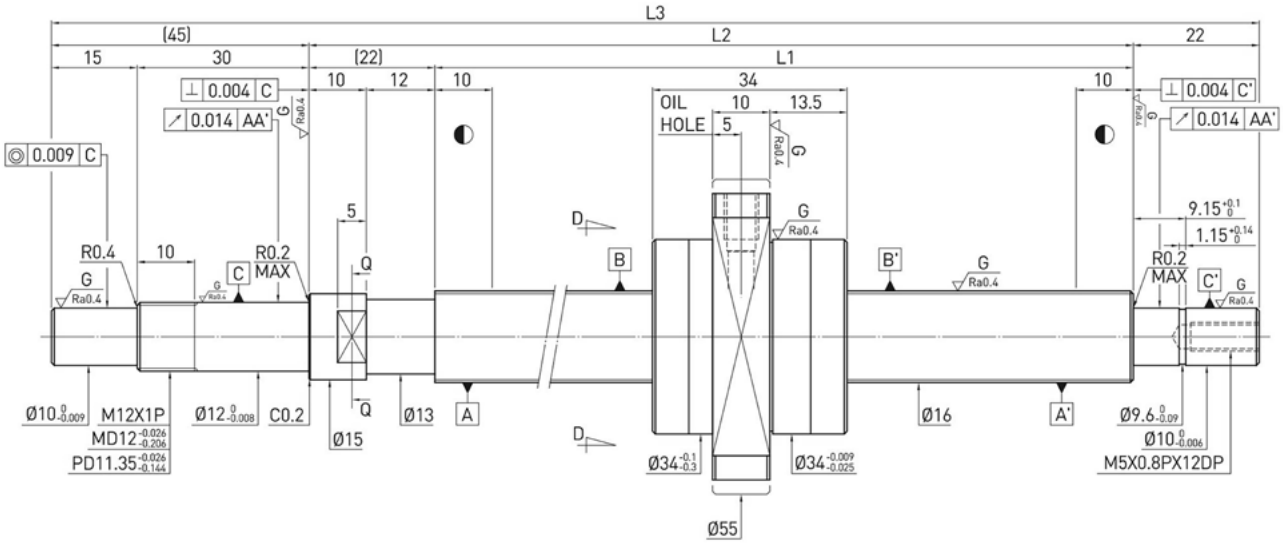
Unit : mm

Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
500	2R25-20S2-DFSH-610-751-0.018	610	640	751	C5
600	2R25-20S2-DFSH-710-851-0.018	710	740	851	C5
800	2R25-20S2-DFSH-910-1051-0.018	910	940	1051	C5
1000	2R25-20S2-DFSH-1110-1251-0.018	1110	1140	1251	C5
1200	2R25-20S2-DFSH-1310-1451-0.018	1310	1340	1451	C5
1400	2R25-20S2-DFSH-1510-1651-0.018	1510	1540	1651	C5
1600	2R25-20S2-DFSH-1710-1851-0.018	1710	1740	1851	C5

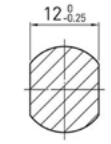
Precision Ground Ball Screw Series

4.6 Ultra High Lead Ground Ballscrew

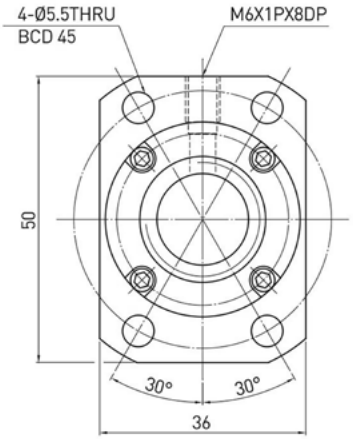
ST — DFSH type (SHAFT OD 16, LEAD 32) ultra high lead



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	32	
Lead Angle	31.53°	
P.C.D (mm)	16.6	
RD (mm)	13.324	
Steel Ball (mm)	Ø3.175	
Circuits	0.8x2	
Dynamic Load C (kgf)	490	
Static Load Co (kgf)	1010	
Axial Play (mm)	0	0.005MAX
Drag Torque (kgf-cm)	0.15~1.0	0.24MAX
Spacer Ball	-	-



Q-Q SECTION



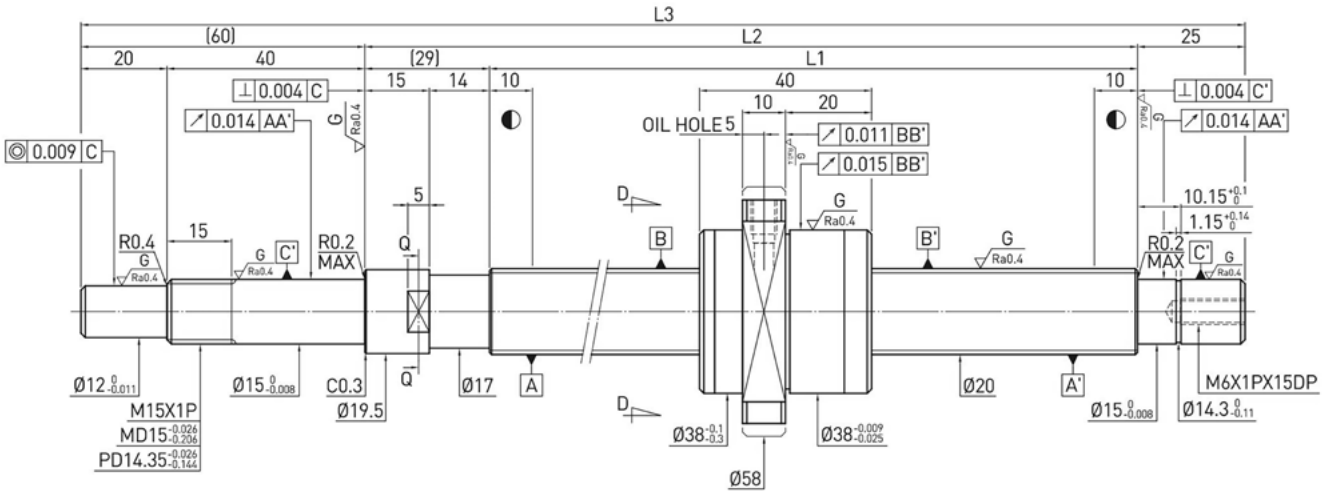
D-D VIEW

Unit : mm

Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
300	2R16-32V2-DFSH-382-471-0.018	382	404	471	C5
500	2R16-32V2-DFSH-582-671-0.018	582	604	671	C5
800	2R16-32V2-DFSH-882-971-0.018	882	904	971	C5
1200	2R16-32V2-DFSH-1282-1371-0.018	1282	1304	1371	C5

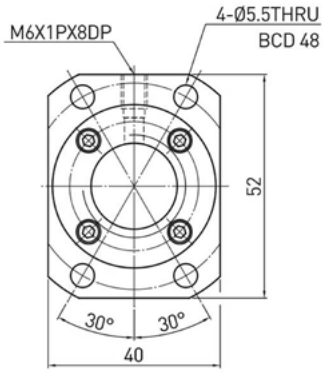
Precision Ground Ball Screw Series

ST — DFSH type (SHAFT OD 20, LEAD 40) ultra high lead



Ballscrew Data		
Direction	Right Hand	
Lead (mm)	40	
Lead Angle	31.47°	
P.C.D (mm)	20.8	
RD (mm)	17.324	
Steel Ball (mm)	Ø3.175	
Circuits	0.8x2	
Dynamic Load C (kgf)	540	
Static Load Co (kgf)	1240	
Axial Play (mm)	0	0.005MAX
Drag Torque (kgf-cm)	0.2~1.2	0.3MAX
Spacer Ball	-	-

Q-Q SECTION



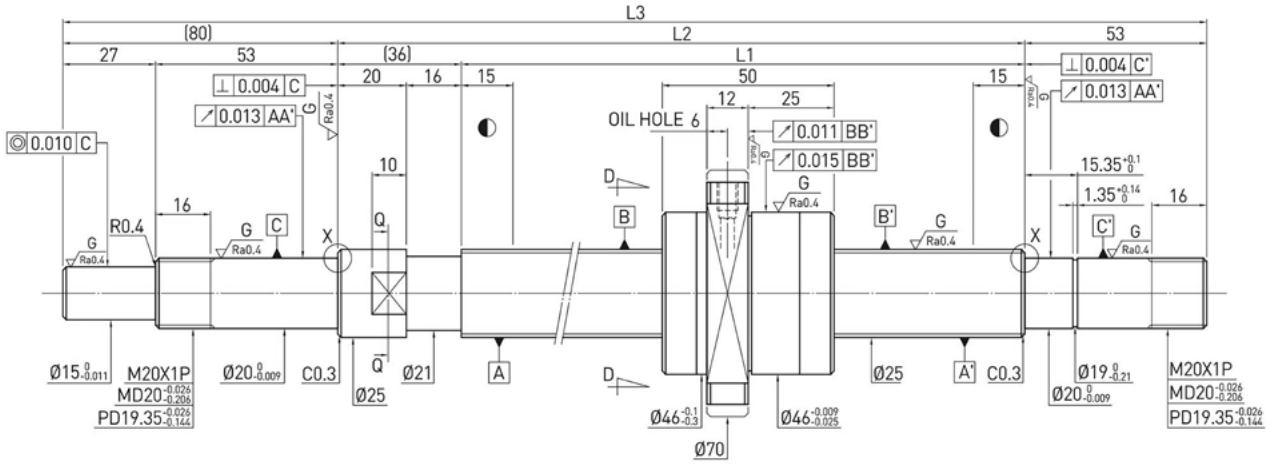
D-D VIEW

Unit : mm

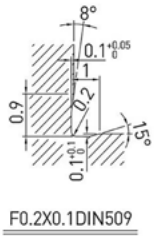
Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
400	2R20-40V2-DFSH-506- 620-0.018	506	535	620	C5
600	2R20-40V2-DFSH-706- 820-0.018	706	735	820	C5
800	2R20-40V2-DFSH-906- 1020-0.018	906	935	1020	C5
1000	2R20-40V2-DFSH-1106- 1220-0.018	1106	1135	1220	C5
1200	2R20-40V2-DFSH-1306- 1420-0.018	1306	1335	1420	C5
1600	2R20-40V2-DFSH-1706- 1820-0.018	1706	1735	1820	C5

Precision Ground Ball Screw Series

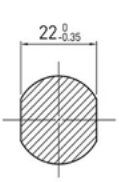
ST — DFSH type (SHAFT OD 25, LEAD 50) ultra high lead



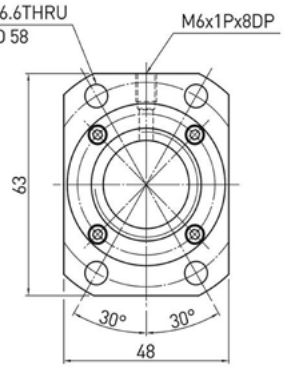
Ballscrew Data		
Direction	Right Hand	
Lead (mm)	50	
Lead Angle	31.67°	
P.C.D (mm)	25.8	
RD (mm)	21.744	
Steel Ball (mm)	Ø3.969	
Circuits	0.8x2	
Dynamic Load C (kgf)	800	
Static Load Co (Kgf)	1930	
Axial Play (mm)	0	0.005MAX
Drag Torque (kgf-cm)	0.3~2.19	0.5MAX
Spacer Ball	-	-



X DETAIL



Q-Q SECTION



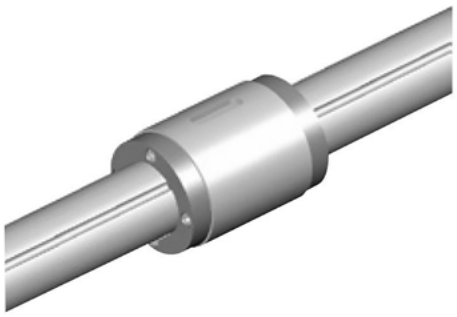
D-D VIEW

Unit : mm

Stroke	Shuntai Code	L1	L2	L3	Accuracy grade
700	2R25-50V2-DFSH-844-1013-0.018	844	880	1013	C5
1000	2R25-50V2-DFSH-1144-1313-0.018	1144	1180	1313	C5
1500	2R25-50V2-DFSH-1644-1813-0.018	1644	1680	1813	C5
2000	2R25-50V2-DFSH-2144-2313-0.018	2144	2180	2313	C5

Precision Ground Ball Screw Series

ST — SJZD convex type



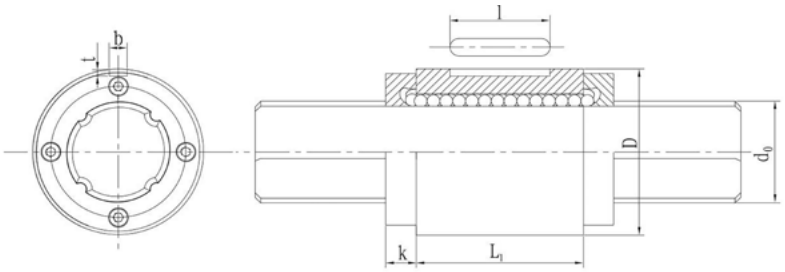


Fig. 9

Fig. 9

Tab. 16

Code and type	Shaft dia. d_0(h7)	External dia. D(h6)	Length of spline nut L_1	Width of end cap	Max. length of shaft L	Width of slot groove b	Depth of slot groove t	Length of slot groove l	Standard rated torque	
									Dynamic torsion N-m	Stationary torsion N-m
* SJZD 15	12.5 -0.016 -0.034	25 -0.005 -0.014	30	5	500	3.5H8	2 +0.1 0	20	103	105
* SJZD 32	31 -0.025 -0.05	55 -0.01 -0.029	48	11	1400	4H8	2.5 +0.1 0	40	148	171
* SJZD 40	39 -0.025 -0.05	68 -0.01 -0.029	66	12	1200	6H8	3.5 +0.2 0	52	375	415
* SJZD 50	50 -0.025 -0.5	80 -0.01 -0.029	72	14	1500	8H8	4 +0.2 0	58	760	840
* SJZD 60	58.5 -0.03 -0.06	95 -0.012 -0.034	93	17	1500	12H8	5 +0.2 0	67	1040	1220

Notes items

● Special requirements for shaft end

Fracture surface of spline shaft, shown as Fig.10. When axle neck of spline needs some processing, make sure that: d<D(see tab.17; 18; 19)

Tab. 17 Convex type

Nominal axial dia.	15	20	25	30	32	40	50	60	70	85	100	120	150
d	11.6	15.3	19	22.5	24	30.5	38.5	46	53.8	66.8	79	98	120.8
D	14.4	19.5	24	29.2	31	38.5	48.5	57.8	69	82	98	117	147

Tab. 18 Concave type

Nominal axial dia.	16	20	25	30	40	50	60	80	100	120
d	14.8	18.6	23	27.8	36.77	46.5	55	74	94.6	112.6
D	16	20	25	30	40	50	60	80	100	120

Tab. 19 SJZD type

Nominal axial dia.	15	32	40	50	60
d	11	27.24	35	43.65	52.86
D	12.5	31	39	50	58.5

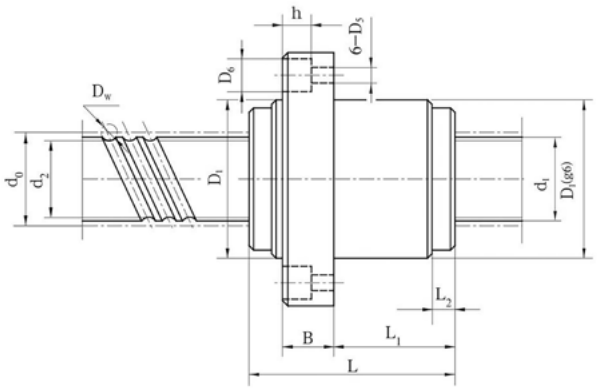
Precision Ground Ball Screw Series

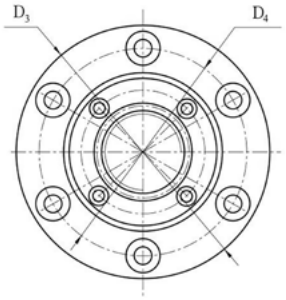
ST — STG ball screw with STG inner cycle end housin

Notes:
1. The lead accuracy of STG type of BSA is the grade 5,7,10 of GB/T17587.3-1998
2. The normal working environment temperature is ±80℃.

Code and spec.	Nominal dia. d_o	Basic lead P_{ho}	Outer dia of ball screw d_1	Ball dia. D_w	Bottom dia.of ball screw d_2	Number of circles n	Basic rated load	
							Dynamic load C_a KN	Static load C_{oa} KN
STG2020-0.8×4	20	20	19.3	3.5	16.4	0.8×4	5.6	11.2
STG2020-1.8×4	20	20	19.3	3.5	16.4	1.8×4	11.4	25.2
STG2525-0.8×4	25	25	24.3	3.5	21.4	0.8×4	6.4	14.5
STG2525-1.8×4	25	25	24.3	3.5	21.4	1.8×4	12.9	32.7
STG3232-0.8×4	32	32	31	4.763	27.1	0.8×4	11	25.6
STG3232-1.8×4	32	32	31	4.763	27.1	1.8×4	22	57.7
STG4040-08×4	40	40	39	5	34.9	0.8×4	12.9	33.7
STG4040-1.8×4	40	40	39	5	34.9	1.8×4	26	75.9

Precision Ground Ball Screw Series





Mounting & connecting dimension												Code and spec.
D_1(g6)	D_3	D_4	D_5	D_6	B	h	L	L_1	L_2	L_3	b × t	
40	66	53	5.8	10	9	5	31	13	8	—	—	STG2020-0.8×4
40	66	53	5.8	10	11	6	51	33	8	—	—	STG2020-1.8×4
45	70	56	5.8	10	10	5	35	16	8	—	—	STG2525-0.8×4
45	70	56	5.8	10	11	6	60	40	8	—	—	STG2525-1.8×4
60	92	75	7	12	13	7	48	22	12	—	—	STG3232-0.8×4
60	92	75	7	12	13	7	80	54	12	—	—	STG3232-1.8×4
71	110	90	9	15	15	9	54	26	12	—	—	STG4040-08×4
71	110	90	9	15	15	9	94	66	12	—	—	STG4040-1.8×4

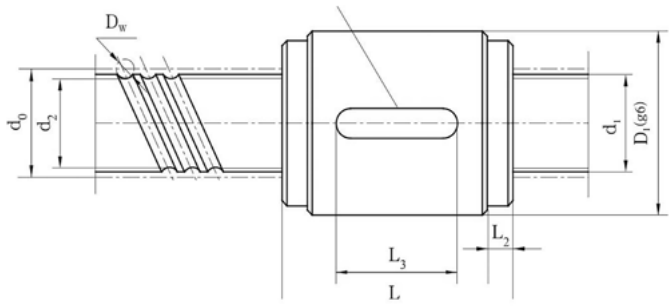
Precision Ground Ball Screw Series

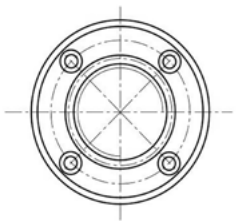
ST — STG ball screw with STG inner cycle end housin

Notes: 1. The lead accuracy of STG type of BSA is the grade 5,7,10 of GB/T17587.3-1998
2. The normal working environment temperature is ±80℃.

Code and spec.	Nominal dia. d_o	Basic lead P_{ho}	Outer dia of ball screw d_1	Ball dia. D_w	Bottom dia. of ball screw d_2	Number of circles n	Basic rated load	
							Dynamic load C_a KN	Static load C_{oa} KN
STG2020-0.8×4	20	20	19.3	3.5	16.4	0.8×4	5.6	11.2
STG2020-1.8×4	20	20	19.3	3.5	16.4	1.8×4	11.4	25.2
STG2525-0.8×4	25	25	24.3	3.5	21.4	0.8×4	6.4	14.5
STG2525-1.8×4	25	25	24.3	3.5	21.4	1.8×4	12.9	32.7
STG3232-0.8×4	32	32	31	4.763	27.1	0.8×4	11	25.6
STG3232-1.8×4	32	32	31	4.763	27.1	1.8×4	22	57.7
STG4040-08×4	40	40	39	5	34.9	0.8×4	12.9	33.7
STG4040-1.8×4	40	40	39	5	34.9	1.8×4	26	75.9

Precision Ground Ball Screw Series





Mounting & connecting dimension												Code and spec.
D_1(g6)	D_3	D_4	D_5	D_6	B	h	L	L_1	L_2	L_3	b × t	
40	—	—	—	—	—	—	31	—	8	10	5×5	STG2020-0.8×4
40	—	—	—	—	—	—	51	—	8	20	5×5	STG2020-1.8×4
45	—	—	—	—	—	—	35	—	8	12	5×5	STG2525-0.8×4
45	—	—	—	—	—	—	60	—	8	30	5×5	STG2525-1.8×4
60	—	—	—	—	—	—	48	—	12	15	6×6	STG3232-0.8×4
60	—	—	—	—	—	—	80	—	12	40	6×6	STG3232-1.8×4
71	—	—	—	—	—	—	54	—	12	20	6×6	STG4040-08×4
71	—	—	—	—	—	—	94	—	12	50	6×6	STG4040-1.8×4

Precision Ground Ball Screw Series

Precision linear motion spline series

Configuration and features

The spline is a kind of linear motion system. When spline motions along the precision ground Shaft by balls, the torque is transferred. The spline has compact structure. It can transfer the Over load and motive power. It has longer lifetime.

At present the factory manufacture two kinds of spline, namely convex spline and concave spline. Usually the convex spline can take bigger radial load and torque than concave spline.

Linear motion rolling spline,(shown as Fig.1) has three rails sharing in excircle of spline shaft, balls are running in certain six loading paths formed by bulge outs of the three rails and the respective sections of spline nut.

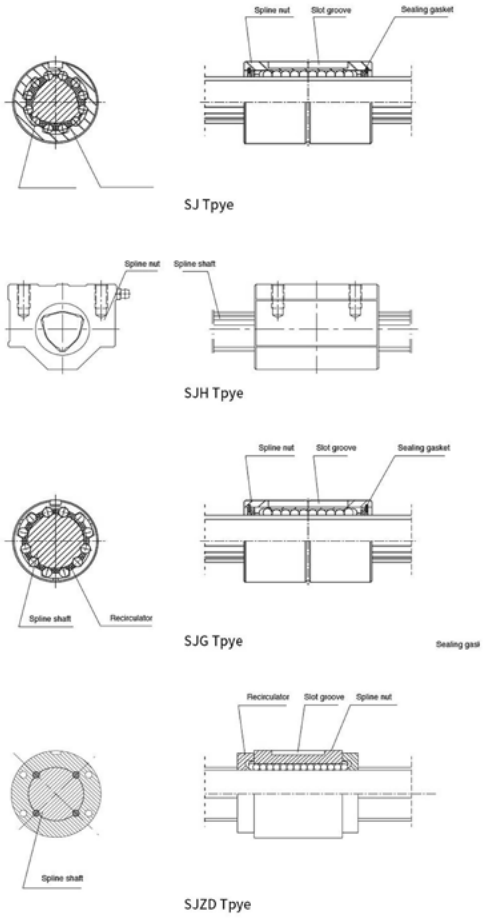


Fig.1

After finished process, radius of roller track slots is nearly R value as that of balls. When torsion force is pressed between the spline nut and the spline shaft, three torsion-oriented loading balls lines transform the force steadily and equally. When the orientation reverses, three other rows work . If a relative motion takes place between the shaft and the spline nut, balls will move back and forth between roller tracks and unload zone.

Spline shaft is made of high-grade alloy steel quenching HRC 58, and spline nut is made of high-grade alloy cementite steel quenching HRC 58, so long service life and hard intensity can be obtained.

Clearance of rotating direction can be controlled to zero value or interfere state, high-speed motion and rotating can be available, In addition, linear motion spline with compact structure is ease to assemble.

Code rule and connotation

SJ Tpye,SJH Tpye

GJ F 50 −2 −P₁ −2 /500 ×280 −M

- Seal type (ifno, no mark)
- Screw part length (mm)
- Total length
- Numbers of spline nut in one shaft
- Torsion clearance (total three: P0, P1, P2.) see Tab.5
- Accuracy grade (total three grades: 2, 3, 4)
- Nominal axial dia. d0 (diameter of ball center circle) (15, 20, 25, 30, 32, 40, 50, 60, 70, 85, 100, 120, 150)
- Structure code (flange type spline nut here Z for straight type, ZA for lengthen type, H for square type)
- Type code (linear motion spline)

GJG Tpye

GJ F G 50 −2 −P₁ −2 /500 ×280 −M

- Seal type (ifno, no mark)
- Screw part length (mm)
- Total length
- Numbers of spline nut in one shaft
- Torsion clearance (total three: P0, P1, P2.) see Tab.5
- Accuracy grade (total three grades: 2, 3, 4)
- Nominal axial dia. d0 (diameter of ball center circle) (16, 20, 25, 30, 40, 50, 60, 80, 100, 120)
- Concave ball spline here
- structure code (flange type spline nut here Z for straight type)
- Type code (linear motion spline)

SJZD Tpye

GJ ZD 50 −2 −P₁ −2 /500 ×280 −M

- Seal type (ifno, no mark)
- Screw part length (mm)
- Total length
- Numbers of spline nut in one shaft
- Torsion clearance (total three: P0, P1, P2.) see Tab.5
- Accuracy grade (total three grades: 2, 3, 4)
- Nominal axial dia. d0 (diameter of ball center circle) (15, 32, 40, 50, 60)
- End cap here
- Type code (linear motion spline)

Accuracy grade

Spline series is divided into three accuracy grades, such as super as super-grade C, precision grade D and common grade E. Accuracy items see Fig.2. Allowable variation requirements of both axle necks of spline shaft are recommended for users.

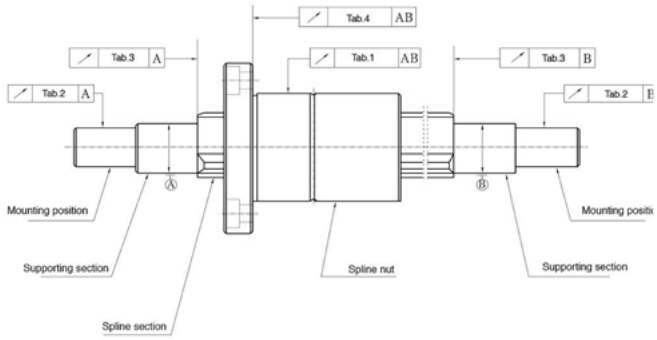


Fig.2

Tab.1 Radical circle jumping of spline nut surface toward axial line of supporting section Unit: μm

Dia. / Accuracy / Length	15 20			25 30 32			40 50			60 70			85 100 120			150		
	2	3	4	2	3	4	2	3	4	2	3	4	2	3	4	2	3	4
<200	18	34	56	18	32	53	16	32	53	16	30	51	16	30	51	—	—	—
200~315	25	45	71	21	39	58	19	36	58	17	34	55	17	32	53	—	—	—
315~400	—	53	83	25	44	70	21	39	63	19	36	58	17	34	55	—	—	—
400~500	—	—	95	29	50	78	24	43	68	21	38	61	19	35	57	19	36	46
500~630	—	—	112	34	57	88	27	47	74	23	41	65	20	37	60	21	39	49
630~800				42	68	103	32	54	84	26	45	71	22	40	64	24	43	53
800~1000				—	—	124	38	63	97	30	51	79	24	43	69	27	48	58
1000~1250							—	—	114	35	59	90	28	48	76	32	55	63
1250~1600							—	—	139	—	—	106	—	—	86	40	65	80
1600~2000													—	—	99	—	—	100

Tab.2 Concentral of supporting section and mounting position Unit: μm

Nominal axial dia. / Accuracy grade	Precision	Super-precision	Common
	2	3	4
15 16 20	12	19	46
25 30 32	13	22	53
40 50	15	25	62
60 70 80	17	29	73
85 100 120	20	34	86
150	23	40	100

Tab.3 Verticality of axis end plane towards axial line of supporting section Unit: μm

Nominal axial dia. / Accuracy grade	Precision	Super-precision	Common
	2	3	4
15 16 20	8	11	27
25 30 32	9	13	33
40 50	11	16	39
60 70 80	13	19	46
85 100 120	15	22	54
150	18	25	63

Tab.4 Verticality of flange mounting surface towards supporting section Unit: μm

Nominal axial dia. / Accuracy grade	Precision	Super-precision	Common
	2	3	4
15 16 20	9	13	33
25 30 32	11	16	39
40 50	13	19	46
60 70 80 85	15	22	54
100 120 150	18	25	63

Tab.5 Torsion clearance of linear motion rolling spline Unit: μm

Nominal axial dia. / Accuracy grade	Common	Light-preload	Middle-preload
	P_0	P_1	P_2
15 16	±3	-9 ~ -3	-15 ~ -9
20 25 30 32	±4	-12 ~ -4	-20 ~ -12
40 50 60	±6	-18 ~ -6	-30 ~ -18
70 80 85	±8	-24 ~ -8	-40 ~ -24
100 120 150	±10	-30 ~ -10	-50 ~ -30

Note: "—"represents interference value.

Tab.6 Applications of Rolling spline Unit: μm

Torsion clearance	Service conditions	Application casee
P_2	High rigidity required in situations of impacts or vibration	Spot welding shaft, tools carriers, indexing shaft
P_1	Used in lightly impact or vibration conditions of light moment of suspension arm	Rockers of automatic robots, main axle of kinds of reloading machines, painting dressing
P_0	Used for torsion supporting section of certain orientation, easy moving with small force	Measuring devices, main axle of machines such as: automatic draught machines, automatic reels, packing machines and plate benders

Tab.7 Load coefficient fw Unit: μm

Impact and vibration	Speed	f_w
No impact, light vibration	V≤15m/min	1.0~1.5
Light impact	V>15~60m/min	1.5~2.0
Impact conditions	V>60m/min	2.0~3.5

Tab.8 Contact coefficient fc Unit: μm

Number of spline nut	f_c
1	1.00
2	0.81
3	0.72
4	0.66
5	0.61

Tab.9 Temperature coefficient fT Unit: μm

Temperature of linear motion system	⩽100° C	100° C~150° C	150° C~ 200° C
f_T	1	1~0.9	0.9~0.75

Precision Ground Ball Screw Series

ST — STGJ convex type

Configuration and features

From formula: $L = 50(\frac{f_T \cdot f_C \cdot f_H \cdot C_T}{f_w T_C})^3$ rated service life with certain bearing torsion is calculated. Within certain travel distance and travel times, the service life with single bearing torsion can be calculated from the equation below:

$$L_h = \frac{L \times 10^3}{120\, L_S n_1}$$

$$f_H = \frac{(\text{Actual, HRC})^{3.6}}{\text{HRC58}}$$

L— Rated service life (KM)

fw— Load coefficient (Tab.7)

fc— Contact coefficient (Tab.8)

fT— Temperature coefficient (Tab.9)

fH— Hardness coefficient

CT— Rated torsion value (N-m)

Tc— Calculated torsion (N-m)

Lh— Service life (hr)

Ls— Travel distance (m)

n1— Return times per minute (opm)

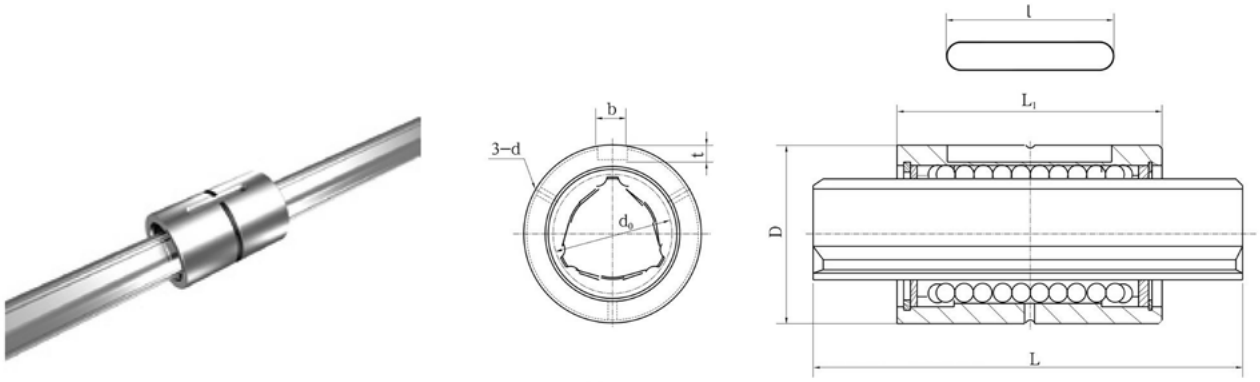


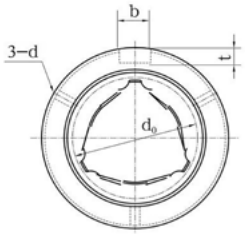
Fig.3

Tab.10

Code and type	Nominal axial dia. d0	External dia. D	Length of spline nut L1	Max. length of shaft L	Width of slot groove b	Depth of slot groove t	Length of slot groove l	Oil hole d	Standard rated torque		Basic rated load	
									Dynamic torsion N-m	Stationary torsion N-m	Dynamic load C KN	Static load C_o KN
STGJ 15	15	23 0 -0.013	40 0 -0.3	400	3.5H8	2 0 -0.3	20	2	27.8	65.2	3.9	8.1
STGJ 20	20	30 0 -0.013	50 0 -0.3	600	4H8	2.5 +0.1 0	26	3	62.3	135.2	6.6	12.7
STGJ 25	25	38 0 -0.016	60 0 -0.3	800	5H8	3 +0.2 0	36	3	127.3	268.3	10.9	20.2
STGJ 30	30	45 0 -0.016	70 0 -0.3	1400	6H8	3 +0.2 0	40	3	155.7	318.7	11.1	20
STGJ 32	32	48 0 -0.016	70 0 -0.3	1400	8H8	4 +0.2 0	40	3	236.4	459.9	15.8	27.1
STGJ 40	40	60 0 -0.019	90 0 -0.3	1500	10H8	5 +0.2 0	56	4	548	1081.9	29.3	50.9
STGJ 50	50	75 0 -0.019	100 0 -0.3	1500	14H8	5.5 +0.2 0	60	4	880.6	1711.6	37.7	64.5
STGJ 70	70	100 0 -0.022	110 0 -0.3	1700	18H8	6 +0.1 0	68	2	2488	4141.1	76.1	111.5
STGJ 85	85	120 0 -0.022	140 0 -0.3	1900	20H8	7 +0.1 0	80	3	3978	6927.4	100.2	153.6
STGJ100	100	140 0 -0.025	160 0 -0.4	1900	28H8	9 +0.1 0	93	3	6905.9	11737.2	147.9	221.3

Precision Ground Ball Screw Series

ST — SJZA convex type



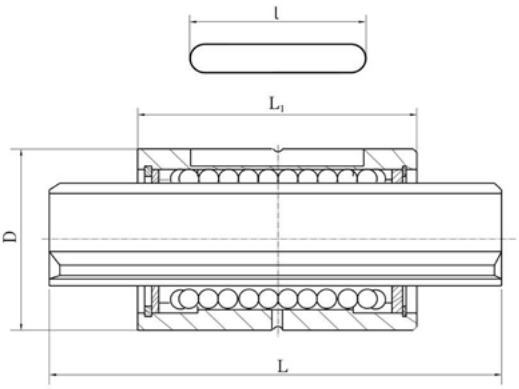


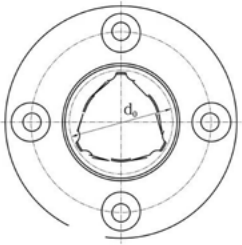
Fig. 4

Tab. 11

Code and type	Nominal axial dia. d0	External dia. D	Length of spline nut L1	Max. length of shaft L	Width of slot groove b	Depth of slot groove t	Length of slot groove l	Oil hole d	Standard rated torque		Basic rated load	
									Dynamic torsion N-m	Stationary torsion N-m	Dynamic load C KN	Static load C_0 KN
SJZA15	15	23 0 -0.013	50 0 -0.3	400	3.5H8	2 0 -0.3	20	2	38.9	105.9	5.5	13.3
SJZA20	20	30 0 -0.013	60 0 -0.3	600	4H8	2.5 +0.1 0	26	3	100	270.5	10.719	25.499
SJZA25	25	38 0 -0.016	70 0 -0.3	800	5H8	3 +0.2 0	36	3	152.0	345.0	13	26
SJZA30	30	45 0 -0.016	80 0 -0.3	1400	4H8	3 +0.2 0	26	3	192.2	425.8	16.3	33.1
SJZA32	32	48 0 -0.016	80 0 -0.3	1400	8H8	4 +0.2 0	40	3	288.9	613.2	19.3	36.1
SJZA40	40	60 0 -0.019	100 0 -0.3	1500	10H8	5 +0.2 0	56	4	651.9	1390.9	34.9	65.5
SJZA50	50	75 0 -0.019	112 0 -0.3	1500	14H8	5.5 +0.2 0	60	4	1048.0	2200.7	44.9	82.9
SJZA60	60	90 0 -0.022	127 0 -0.3	1500	16H8	6 +0.2 0	70	4	2135.9	4172.9	76.2	131.1
SJZA70	70	100 0 -0.022	135 0 -0.3	1700	18H8	6 +0.1 0	68	4	3153.4	5797.6	96.5	156.1
SJZA85	85	120 0 -0.022	155 0 -0.3	1900	20H8	7 +0.1 0	80	5	4437.2	8082.0	111.8	179.2
SJZA100	100	140 0 -0.025	175 0 -0.4	1900	28H8	9 +0.1 0	93	5	6943.8	11737.2	148.7	221.3
SJZA120	120	160 0 -0.025	200 0 -0.4	1900	28H8	9 +0.1 0	123	6	10153.5	18779.5	181.3	295
SJZA150	150	205 0 -0.029	250 0 -0.4	1900	32H8	10 +0.1 0	157	6	19564.1	33532.7	279.4	421.5

Precision Ground Ball Screw Series

ST — SGJF convex type



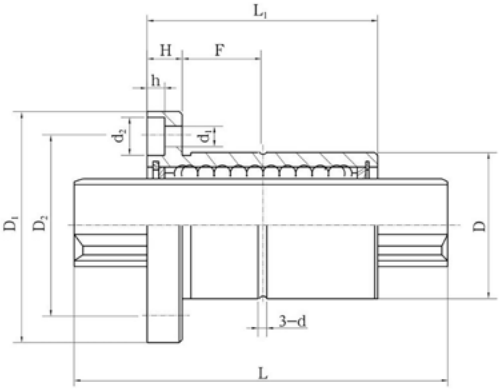


Fig. 5

Tab. 12

Code and type	Nominal axial dia. d_0	External dia. D	Length of spline nut L_1	Max. length of shaft L	Dia. of flange D_1	Dia. of center circle of mounting D_2	Thickness of flange H	Depth of counter bore h	Oil hole d	Dia. of counter bore d_2	Dia. of cross hole d_1	Position of oil hole F	Standard rated torque		Basic rated load	
													Dynamic torsion N-m	Stationary torsion N-m	Dynamic load C KN	Static load C_o KN
SGJF15	15	23 $^{0}_{-0.013}$	40 $^{0}_{-0.3}$	400	43 $^{0}_{-0.2}$	32	7	4.4	2	8	4.5	13	27.8	65.2	3.9	8.1
SGJF20	20	30 $^{0}_{-0.013}$	50 $^{0}_{-0.3}$	600	49 $^{0}_{-0.2}$	38	7	4.4	3	8	4.5	18	62.3	135.2	6.6	12.7
SGJF25	25	38 $^{0}_{-0.016}$	60 $^{0}_{-0.3}$	800	60 $^{0}_{-0.2}$	47	9	5	3	10	5.8	21	127.3	268.3	10.9	20.2
SGJF30	30	45 $^{0}_{-0.016}$	70 $^{0}_{-0.3}$	1400	70 $^{0}_{-0.2}$	54	10	6	3	11	6.6	25	155.7	318.7	11.1	20
SGJF32	32	48 $^{0}_{-0.016}$	70 $^{0}_{-0.3}$	1400	73 $^{0}_{-0.2}$	57	10	6	3	12	7	25	236.4	459.9	15.8	27.1
SGJF40	40	57 $^{0}_{-0.019}$	90 $^{0}_{-0.3}$	1500	90 $^{0}_{-0.2}$	70	14	7	4	15	9	31	548.0	1081.9	29.3	50.9
SGJF50	50	70 $^{0}_{-0.019}$	100 $^{0}_{-0.3}$	1500	108 $^{0}_{-0.2}$	86	16	9	4	18	11	34	880.6	1711.6	37.7	64.5
SGJF60	60	85 $^{0}_{-0.022}$	127 $^{0}_{-0.3}$	1500	124 $^{0}_{-0.2}$	102	18	11	4	18	11	45.5	2135.9	4172.9	76.2	131.1
SGJF70S	70	100 $^{0}_{-0.022}$	110 $^{0}_{-0.3}$	1700	142 $^{0}_{-0.2}$	117	20	13	4	20	13.5	35	2488	4141.1	76.1	111.5
SGJF70	70	100 $^{0}_{-0.022}$	135 $^{0}_{-0.3}$	1700	142 $^{0}_{-0.2}$	117	20	13	4	20	14	47.5	3153.4	5797.6	96.5	156.1
SGJF85S	85	120 $^{0}_{-0.025}$	140 $^{0}_{-0.3}$	1900	168 $^{0}_{-0.4}$	138	22	13	4	20	13.5	48	3978	6927.4	100.2	153.6
SGJF85	85	120 $^{0}_{-0.022}$	155 $^{0}_{-0.3}$	1900	168 $^{0}_{-0.2}$	138	22	13	5	20	13	55.5	4437.2	8082.0	111.8	179.2
SGJF100	100	135 $^{0}_{-0.025}$	160 $^{0}_{-0.4}$	1900	195 $^{0}_{-0.4}$	162	25	17.5	5	26	18	55	6905.9	11737.2	147.9	221.3

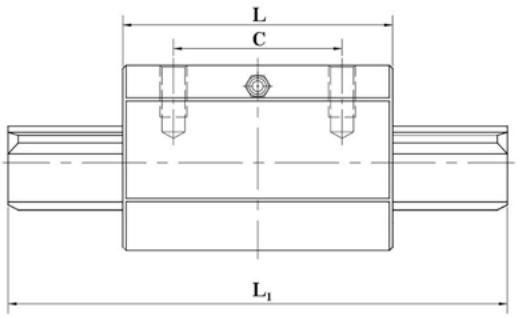
Precision Ground Ball Screw Series

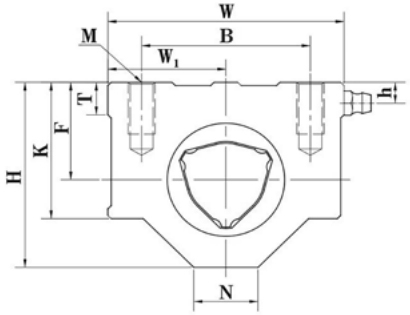
ST — SJH convex type

Note: material: GCr 15
surface hardness: HRC58

Tab. 13

Code and type	H	W	L	Max. length of shaft L_1	F	W_1	B	C	M	K	N	T	h	Oil cup	Standard rated torque		Basic rated load	
															Dynamic torsion N-m	Stationary torsion N-m	Dynamic load C KN	Static load C_o KN
SJH 15	29	34	40	400	15±0.1	17±0.1	26	26	M4 depth 10	23	9	6	5	ø4 forced filling	38.9	105.9	5.5	13.3
SJH 20	38	48	60	600	20±0.1	24±0.1	35	35	M6 depth 12	29	12	7	6	straight-through M6	100	270.5	10.7	25.4
SJH 25	47	60	70	800	25±0.1	30±0.1	40	40	M8 depth 14	35	16	10	7	straight-through M6	152.0	345.0	13.0	26.0
SJH 30	57	70	80	1400	30±0.1	35±0.1	50	50	M8 depth 16	42	19	10	7	straight-through M6	288.9	613.2	19.3	36.1
SJH 40	70	86	102	1500	38±0.1	43±0.1	60	60	M10 depth 20	58	26	15	10	straight-through M6	1048.0	2200.7	34.9	65.5
SJH 50	86	100	112	1500	48±0.1	50±0.1	75	75	M12 depth 20	74	32	15	10	straight-through M6	2135.9	4172.9	44.9	82.9





Precision Ground Ball Screw Series

ST — SJZG convex type

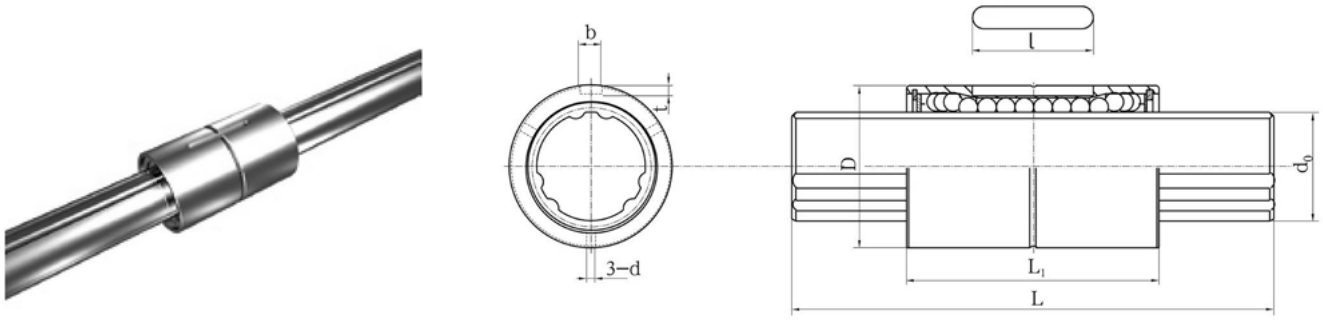


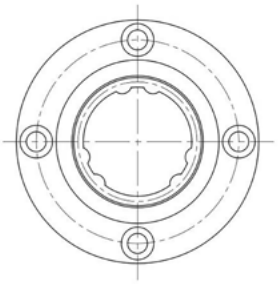
Fig. 7

Tab. 14

Code and type	Shaft dia. d_0(h7)	External dia. D(h6)	Length of spline nut L_1	Max. length of shaft L	Width of slot groove b	Depth of slot groove t	Length of slot groove l	Oil hole d	Standard rated torque		Basic rated load	
									Dynamic torsion N-m	Stationary torsion N-m	Dynamic load C KN	Static load C_0 KN
SJZG16	16 0 -0.018	31 0 -0.016	50 0 -0.2	500	3.5H8	2 +0.1 0	17.5	2	32	30	7.5	15.6
SJZG20	20 0 -0.021	35 0 -0.016	63 0 -0.2	600	4H8	2.5 +0.1 0	29	2	55	55	10.1	24.7
SJZG25	25 0 -0.021	42 0 -0.016	71 0 -0.3	800	4H8	2.5 +0.1 0	36	3	103	105	13.7	30.1
SJZG30	30 0 -0.021	48 0 -0.016	80 0 -0.3	1400	4H8	2.5 +0.1 0	40	3	148	171	17.1	37.1
SJZG40	40 0 -0.025	64 0 -0.019	100 0 -0.3	1500	6H8	3.5 +0.1 0	52	4	375	415	32.1	70.2
SJZG50	50 0 -0.025	80 0 -0.019	125 0 -0.3	1500	8H8	4 +0.2 0	58	4	760	840	49.4	104.9
SJZG60	60 0 -0.03	90 0 -0.022	140 0 -0.3	1500	12H8	5 +0.2 0	67	5	1040	1220	64.2	128.2
SJZG80	80 0 -0.03	120 0 -0.022	160 0 -0.4	1700	16H8	6 +0.2 0	76	5	1920	2310	87.3	170.7
SJZG100	100 0 -0.035	150 0 -0.025	190 0 -0.4	1900	20H8	7 +0.2 0	110	5	3010	3730	109.9	222
SJZG120	120 0 -0.035	180 0 -0.025	220 0 -0.4	1900	32H8	11 +0.2 0	120	6	4100	5200	176.5	347

Precision Ground Ball Screw Series

ST — SJFG convex type



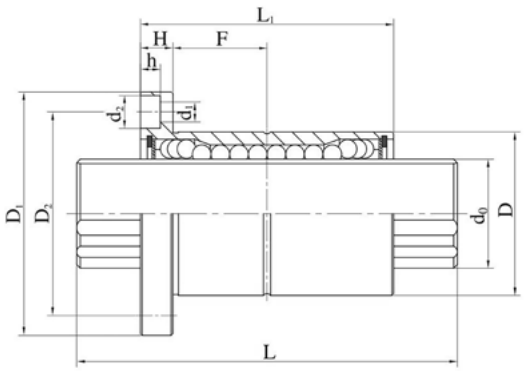


Fig. 8

Tab. 15

Code and type	Shaft dia. d_0(h7)	External dia. D(h6)	Length of spline nut L_1	Max. length of shaft L	Dia. of flange D_1	Dia. of center circle of mounting D_2	Thickness of flange H	Depth of counter bore h	Dia. of counter bore d_2	Dia. of cross hole d_1	Oil hole d	Position of oil hole F	Standard rated torque		Basic rated load	
													Dynamic torsion N-m	Stationary torsion N-m	Dynamic load C KN	Static load C_o KN
SJFG16	16 0 -0.018	31 0 -0.016	50 0 -0.2	500	51 0 -0.2	40	7	4.4	8	4.5	2	18	32	30	7.5	15.6
SJFG20	20 0 -0.021	35 0 -0.016	63 0 -0.2	600	58 0 -0.2	45	9	5.4	9.5	5.5	2	22.5	55	55	10.1	24.7
SJFG25	25 0 -0.021	42 0 -0.016	71 0 -0.3	800	65 0 -0.3	52	9	5.4	9.5	5.5	3	26.5	103	105	13.7	30.1
SJFG30	30 0 -0.021	48 0 -0.016	80 0 -0.3	1400	75 0 -0.3	60	10	6.5	11	6.6	3	30	148	171	17.1	37.1
SJFG40	40 0 -0.025	64 0 -0.019	100 0 -0.3	1500	100 0 -0.3	82	14	8.6	14	9	4	36	375	415	32.1	70.2
SJFG50	50 0 -0.025	80 0 -0.019	125 0 -0.3	1500	124 0 -0.3	102	16	11	17.5	11	4	46.5	760	840	49.4	104.9
SJFG60	60 0 -0.03	90 0 -0.022	140 0 -0.3	1500	134 0 -0.3	112	16	11	18	11	5	54	1040	1220	64.2	128.2
SJFG80	80 0 -0.03	120 0 -0.022	160 0 -0.4	1700	168 0 -0.3	144	20	12.8	20	13.5	5	60	1920	2310	87.3	170.7
SJFG100	100 0 -0.035	150 0 -0.025	190 0 -0.4	1900	200 0 -0.3	170	25	16.8	26	17.5	5	70	3010	3730	109.9	222
SJFG120	120 0 -0.035	180 0 -0.025	220 0 -0.4	1900	252 0 -0.3	216	30	20.6	32	22	6	80	4100	5200	176.5	347

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