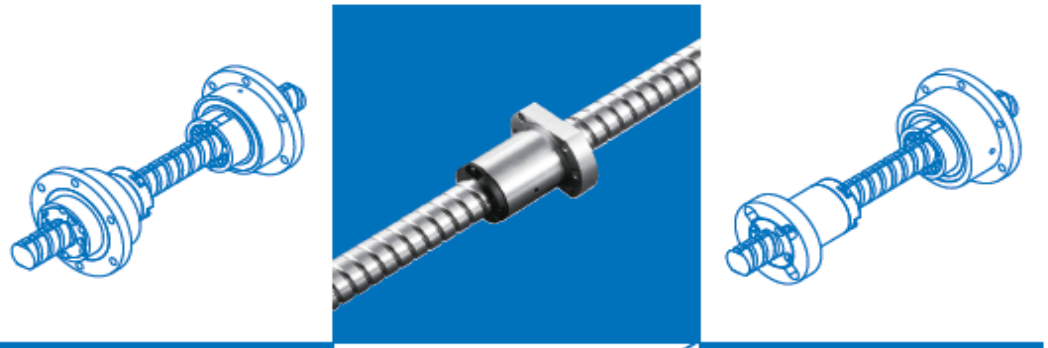
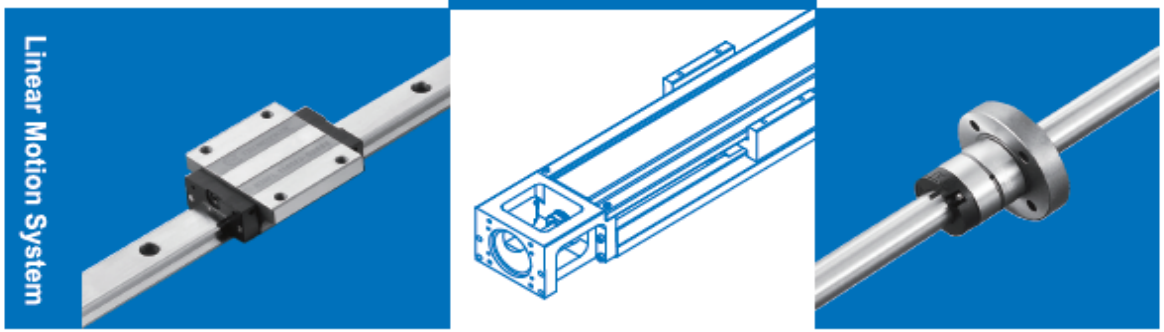
TBI TBIMOTION®

GENERAL PRODUCTS

Linear Motion System

- Linear Guide
- Ball Spline
- Ball Screw
- Rotary Series
- Single Axis Actuator
- Linear Ball Bearing
- Support Unit of Ball Screw
- Coupling





C. Ball Screw

SFNH／SFH

NEW

Ground C43
Rolled C68

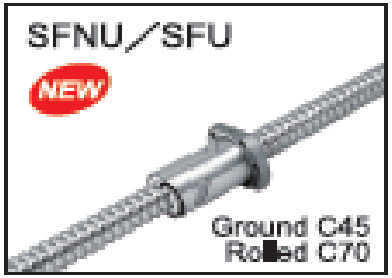
SCNH

NEW

Ground C44
Rolled C69

SFNU／SFU

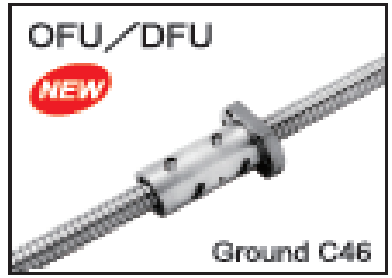
NEW



Ground C45
Rolled C70

OFU／DFU

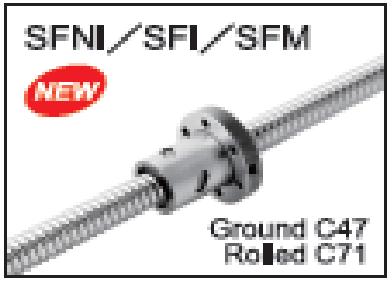
NEW



Ground C46

SFNI／SFI／SFM

NEW



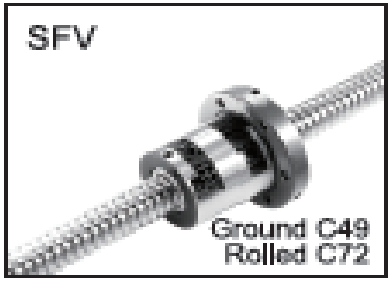
Ground C47
Rolled C71

OFI／DFI／DFM

NEW

Ground C48

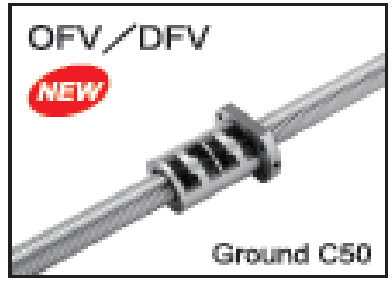
SFV



Ground C49
Rolled C72

OFV／DFV

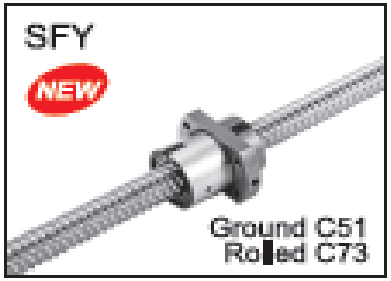
NEW



Ground C50

SFY

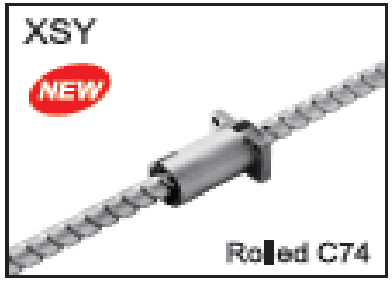
NEW



Ground C51
Rolled C73

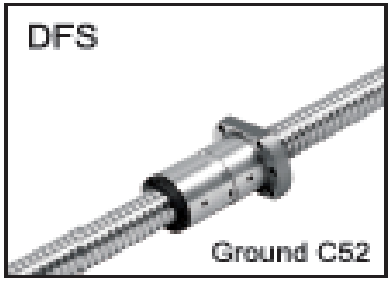
XSY

NEW



Rolled C74

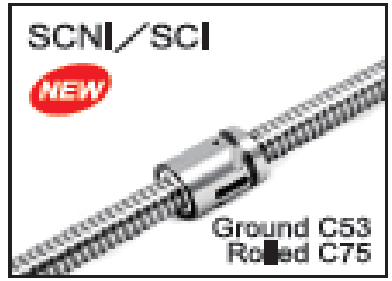
DFS



Ground C52

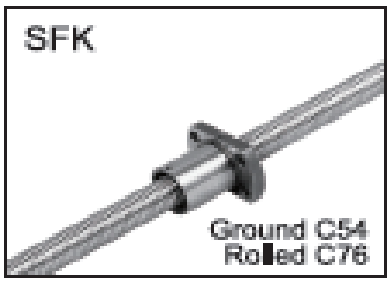
SCNI／SCI

NEW



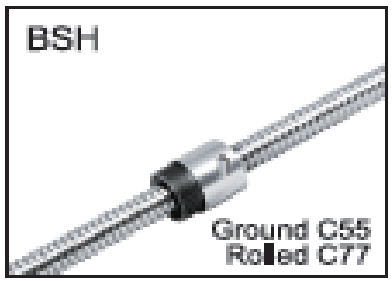
Ground C53
Rolled C75

SFK



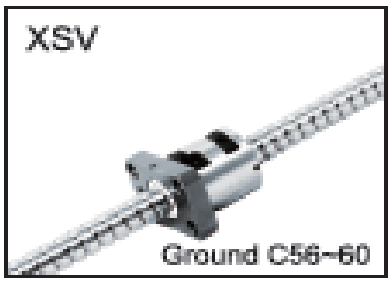
Ground C54
Rolled C76

BSH



Ground C55
Rolled C77

XSV



Ground C56~60

2. *TBI MOTION* Ball Screw

2-1 Nominal Model Code of Ball Screw

SFU R 025 05 T4 D G C5 - 600 - P1 - B2+N3 N3

Nominal Model

S
- S : Single nut
- D : Double nut
- O : OFF set double nut

F
- F : With flange
- C : Without flange

U
- NI : NI type nut
- NU : NU type nut
- H : H type nut
- Y : Y type nut
- V : V type nut
- U : DIN nut
- M : M type nut
- K : K type nut

Threading Direction
R : Right L : Left

Nominal Diameter
Unit : mm

Lead
Unit : mm

Number of Turns (Turn · Row)
Turn : T : 1 A : 1.5 (or 1.7/1.8) B : 2.5/2.8 C : 3.5 D : 4.8
ex : (2.5 · 2 = B2)

Flange Type
N : Not cutting S : Single cutting D : Double cutting

Product Code
G : Ground F : Rolled

Accuracy Grade
C0, C1, C2, C3, C5, C7, C10

Overall Length of Shaft
Unit : mm

Axial Clearance and Preload Value
P0, P1, P2, P3, P4

Number of Nut
(Leave blank if only one nut is required) Ex : Two install two nuts in a shaft : B2

Nut Surface Treatment
S : Standard B1 : Black Oxidation N1 : Hard Chrome Plating P : Phosphating
N3 : Nickel Plating N4 : Raydent N5 : Balck Chrome Plating

Shaft Surface Treatment
S : Standard B1 : Black Oxidation N1 : Hard Chrome Plating P : Phosphating
N3 : Nickel Plating N4 : Raydent N5 : Balck Chrome Plating

※ No symbol required when no plating is need.
※ An inspection report is provided for ground ball screws with an accuracy higher than C5.

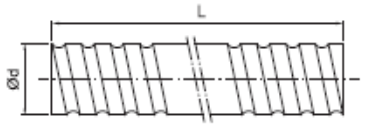


Fig 2.1.1 Screw Shaft Nominial Diameter

Table 2.1.1 Ground Ball Screw Specifications Ø4~32

Unit : mm

Model No.			Accuracy Grade	Threading Direction	Number of Grooves	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	NU, BSH
	5	2.5	C7, C5, C3	R	1	SCR01205-A	V, NU, BSH, 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, NI, NU, BSH
	5	3.175	C7, C5, C3	R/L	1	SCR01605	V, NI, NU, BSH
	10	3.175	C7, C5, C3	R/L	2	SCR01610	V, NI, NU, 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, NI, NU
	5	3.175	C7, C5, C3	R/L	1	SCR02005	V, NI, NU, BSH, H
	10	3.969	C7, C5, C3	R	1	SCR02010	V
	20	3.175	C7, C5, C3	R	2	SCR02020	V, Y, H
	40	3.175	C7, C5, C3	R	2	SCR02040	Y
25	4	2.381	C7, C5, C3	R	1	SCR02504(N)	NI, NU
	5	3.175	C7, C5, C3	R/L	1	SCR02505	V, NI, NU, BSH, H
	6	3.969	C7, C5, C3	R	1	SCR02506	V, NU
	8	4.762	C7, C5, C3	R	1	SCR02508	V, NU
	10	4.762	C7, C5, C3	R	1	SCR02510-A	NI, NU, 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, NI, NU
	5	3.175	C7, C5, C3	R/L	1	SCR03205	V, NI, NU, M, H
	6	3.969	C7, C5, C3	R	1	SCR03206	V, NU
	8	4.762	C7, C5, C3	R	1	SCR03208	V, NU
	10	6.35	C7, C5, C3	R/L	1	SCR03210	V, NI, NU
	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

Table 2.1.2 Standard Specifications Ø4~80

Unit：mm

Model No.			Accuracy Grade	Threading Direction R：Right L：Left	Number of Grooves	Standard Code of Shaft	Type of Nut
Ød	l	Da					
40	5	3.175	C7, C5, C3	R／L	1	SCR04005	V, NI, NU, H
	6	3.969	C7, C5, C3	R	1	SCR04006	V, NU
	8	4.762	C7, C5, C3	R	1	SCR04008	V, NU
	10	6.35	C7, C5, C3	R／L	1	SCR04010	V, NI, NU
	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, H
	10	6.35	C7, C5, C3	R／L	1	SCR05010	V, NI, NU
	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, NI, NU
	20	9.525	C7, C5, C3	R	1	SCR06320	V, NU
80	10	6.35	C7, C5, C3	R	1	SCR08010	V, NI, NU
	20	9.525	C7, C5, C3	R	1	SCR08020	V, NU

Table 2.1.3 H-type Specifications Ø12~50

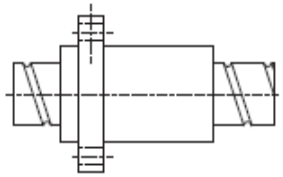
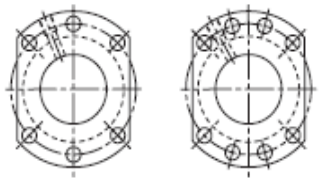
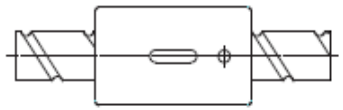
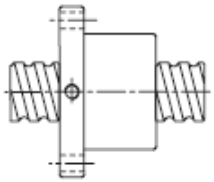
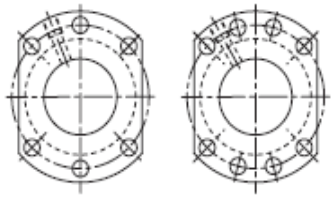
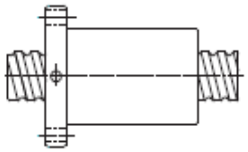
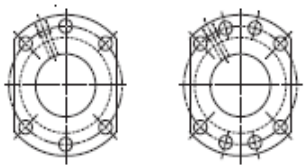
Unit：mm

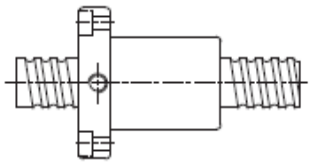
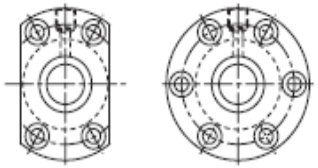
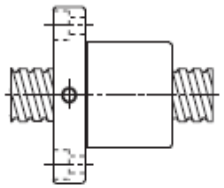
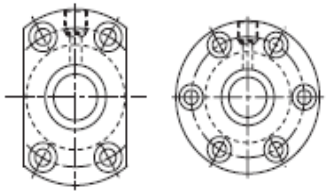
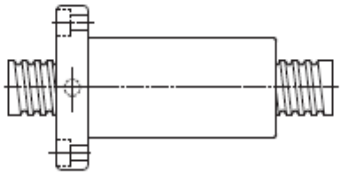
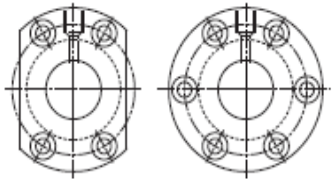
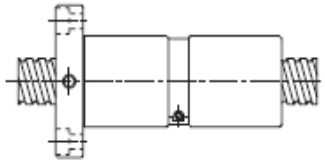
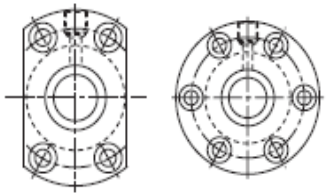
Model No.			Accuracy Grade	Threading Direction R：Right L：Left	Number of Grooves	Type-H Code of Shaft	Type of Nut
Ød	l	Da					
16	5	2.778	C7, C5, C3	R	1	SSR01605	H
	10	2.778	C7, C5, C3	R	1	SSR01610	H
	16	2.778	C7, C5, C3	R	1	SSR01616	H
20	10	3.175	C7, C5, C3	R	1	SSR02010	H
25	10	3.175	C7, C5, C3	R	1	SSR02510	H
	25	3.175	C7, C5, C3	R	1	SSR02525	H
32	10	3.969	C7, C5, C3	R	1	SSR03210	H
	20	3.969	C7, C5, C3	R	1	SSR03220	H
40	10	6.35	C7, C5, C3	R	1	SSR04010	H
50	10	6.35	C7, C5, C3	R	1	SSR05010	H

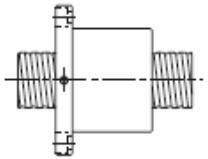
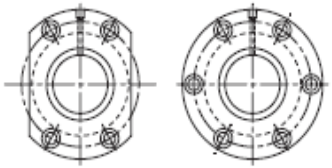
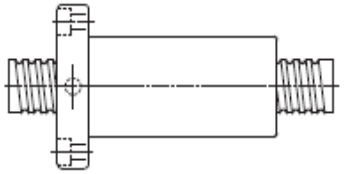
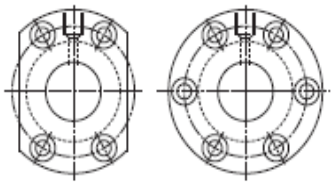
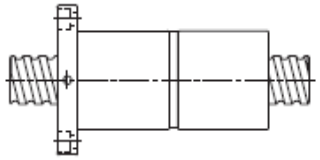
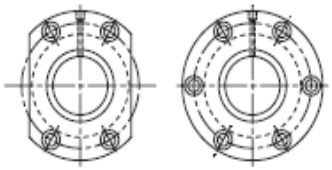
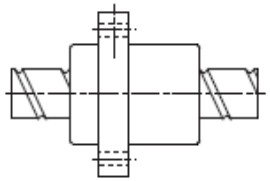
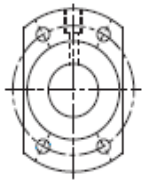
※The information is for standard production, if other needs please contact ***TBIMOTION***.

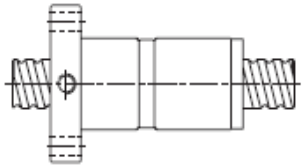
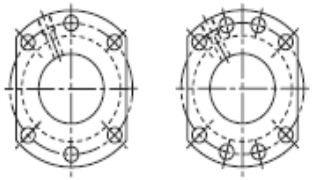
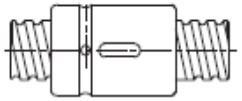
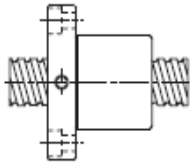
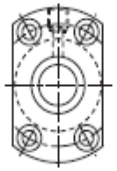
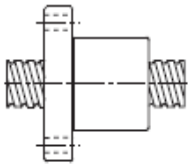
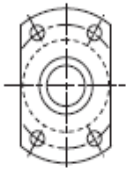
2-2 Precision Ground Ball Screw Series

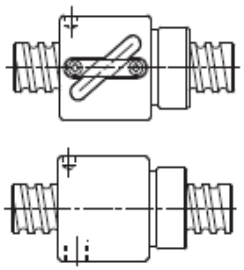
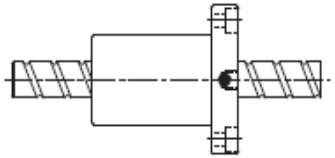
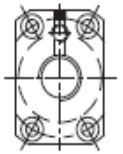
2-2-1 *TBIMOTION* Nut of Precision Ground Ball Screw Type

Nut Type		Flange Type
NH／H (High Speed/Strong dust-proof type)	SFNH／SFH  C43	 d≦32 d≧40
CNH (Actuator type)	SCNH  C44	No-Flange
NU／U (Strong dust-proof type)	SFNU／SFU  C45	 d≦32 d≧40
OFU／U (OFF set double nut)	OFU／DFU  C46	

	Nut Type	Flange Type
NI／I (Strong dust-proof type)	SFNI／SFI  C47	
M (Design for Milling)	SFM  C47	
OFI／DFI (OFF set double nut)	OFI／DFI  C48	
M (Design for Milling)	DFM  C48	

	Nut Type	Flange Type
V (High Load External Circulation type)	SFV  C49	
OFV (OFF set double nut)	OFV  C50	
V (High Load External Circulation type)	DFV  C50	
Y (High DM-N Rating)	SFY  C51	

	Nut Type	Flange Type
S (High Speed / Low Noise type)	DFS  C52	 Model No.≦3232 Model No.≧4005
CNI／I (Standard)	SCNI／SCI  C53	No-Flange
K (Miniature type)	SFK  C54	 (SFK 01004) (SFK 02002) (SFK 02502)
	SFK  C54	

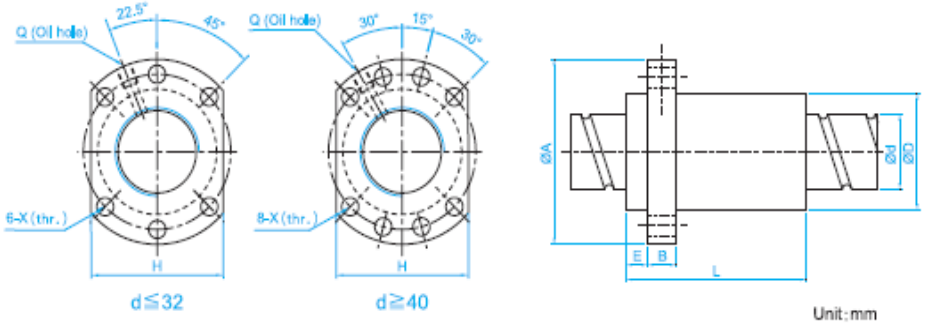
	Nut Type	Flange Type
BSH	BSH  d≦12 d≧14 C55	No-Flange
XSV (Design for factory automation)	XSV  C56~60	

※The information is for standard production, if other needs please contact ***TBIMOTION***.

Table 2.2.1 Preload Chart

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

SFNH／SFH (DIN 69051 FORM B) Series Specifications

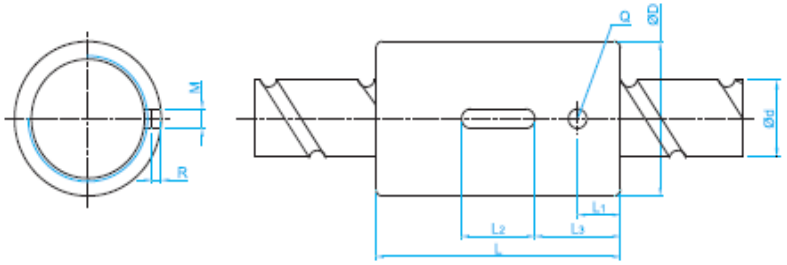


Unit: mm

Model No.	d	l	Da	Dimension										Load Rating		K kgf／μm
				D	A	E	B	L	W	H	X	Q	n	Ca (kgf)	Coa (kgf)	
★ 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

※★Actuator type available (SFNH series).

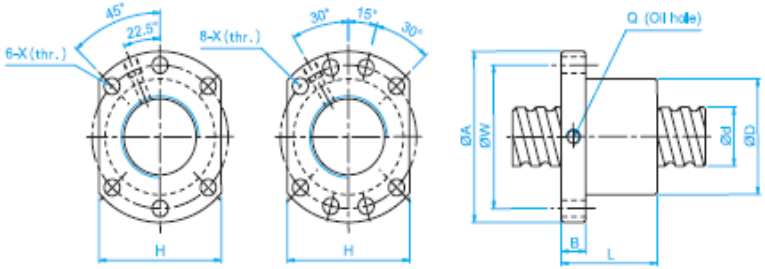
SCNH Series Specifications



Unit: mm

Model No.	d	l	Da	Dimension									Load Rating		K kgf／μm
				D	L	L1	L2	L3	M	R	Q	n	Ca (kgf)	Coa (kgf)	
SCNH01205-4.8	12	5	2.5	24	40	7	12	14	3	1.5	3	4.8x1	536	794	34
SCNH01210-2.8		10	2.5	24	45	8	15	15	3	1.5	3	2.8x1	642	1287	19
XCNH01210-1.8		10	2.5	24	40	10.5	12	14	3	1.5	3	1.8x1	422	771	33
SCNH01605-5.8	15	5	2.778	28	45	7	20	12.5	5	3	3	5.8x1	1599	3827	49
SCNH01610-2.8		10	2.778	28	45	7	20	12.5	5	3	3	2.8x1	839	1821	23
SCNH01616-1.8		16	2.778	28	45	7	20	12.5	5	3	3	1.8x1	552	1137	18
SCNH01620-1.8		20	2.778	28	58	10	20	19	5	3	3	1.8x1	808	1769	14
SCNH02005-5.8	20	5	3.175	36	47	8	20	13.5	5	3	3	5.8x1	2134	5619	60
SCNH02010-3.8		10	3.175	36	55	8	20	17.5	5	3	3	3.8x1	1516	3833	40
SCNH02020-1.8		20	3.175	36	55	8	20	17.5	5	3	3	1.8x1	764	1758	19

SFNU／SFU (DIN 69051 FORM B) Series Specifications

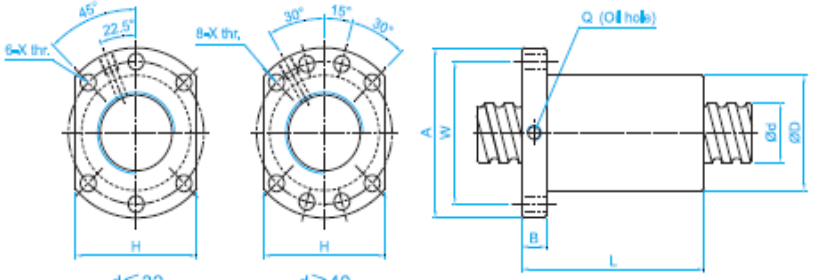


d≦32　　d≧40

Unit:mm

Model No.	d	l	Da	Dimension									Load Rating		K kgf／μm
				D	A	B	L	W	H	X	Q	n	Ca (kgf)	Coa (kgf)	
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
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
SFU02004-4	20	4	2.381	36	58	10	42	47	44	6.6	M6	1x4	1066	2987	38
SFU02504-4	25	4	2.381	40	62	10	42	51	48	6.6	M6	1x4	1180	3795	43
SFU02506-4		6	3.969	40	62	10	54	51	48	6.6	M6	1x4	2318	6057	47
SFU02508-4		8	4.762	40	62	10	63	51	48	6.6	M6	1x4	2963	7313	49
SFU03204-4	32	4	2.381	50	80	12	44	65	62	9	M6	1x4	1296	4838	51
SFU03206-4		6	3.969	50	80	12	57	65	62	9	M6	1x4	2632	7979	57
SFU03208-4		8	4.762	50	80	12	65	65	62	9	M6	1x4	3387	9622	60
SFU04006-4	40	6	3.969	63	93	14	60	78	70	9	M6	1x4	2873	9913	66
SFU04008-4		8	4.762	63	93	14	67	78	70	9	M6	1x4	3712	11947	70
SFU05020-4	50	20	7.144	75	110	16	138	93	85	11	M8	1x4	7142	22588	94
SFU06320-4	63	20	9.525	95	135	20	149	115	100	13.5	M8	1x4	11444	36653	112
SFU08020-4	80	20	9.525	125	165	25	154	145	130	13.5	M8	1x4	12911	47747	138
SFU10020-4	100	20	9.525	150	202	30	180	170	155	17.5	M8	1x4	14303	60698	162

OFU／DFU (DIN 69051 FORM B) Series Specifications

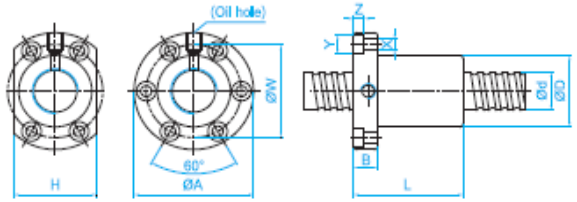


d≦32　　d≧40

Unit:mm

Model No.	d	l	Da	Dimension									Load Rating		K kgf／μm
				D	A	B	L	W	H	X	Q	n	Ca (kgf)	Coa (kgf)	
OFU01605-4	16	5	3.175	28	48	10	75	38	40	5.5	M6	1x4	1380	3052	44
OFU02005-4	20	5	3.175	36	58	10	85	47	44	6.6	M6	1x4	1551	3875	53
OFU02505-4	25	5	3.175	40	62	10	86	51	48	6.6	M6	1x4	1724	4904	62
OFU02510-4		10	4.762	40	62	12	130	51	48	6.6	M6	1x4	2954	7295	67
OFU03205-4	32	5	3.175	50	80	12	87	65	62	9	M6	1x4	1922	6343	74
OFU03210-4		10	6.35	50	80	12	145	65	62	9	M6	1x4	4805	12208	82
OFU04005-4	40	5	3.175	63	93	14	90	78	70	9	M8	1x4	2110	7988	87
OFU04010-4		10	6.35	63	93	14	148	78	70	9	M8	1x4	5399	15500	99
OFU05010-4	50	10	6.35	75	110	16	148	93	85	11	M8	1x4	6004	19614	117
OFU06310-4	63	10	6.35	90	125	18	153	108	95	11	M8	1x4	6719	25358	139
OFU08010-4	80	10	6.35	105	145	20	153	125	110	13.5	M8	1x4	7346	31953	156
DFU01604-4	16	4	2.381	28	48	10	80	38	40	5.5	M6	1x4	973	2406	43
DFU02004-4	20	4	2.381	36	58	10	80	47	44	6.6	M6	1x4	1066	2987	51
DFU02504-4	25	4	2.381	40	62	10	80	51	48	6.6	M6	1x4	1180	3795	60
DFU02506-4		6	3.969	40	62	10	105	51	48	6.6	M6	1x4	2318	6057	64
DFU02508-4		8	4.762	40	62	10	120	51	48	6.6	M6	1x4	2963	7313	67
DFU03204-4	32	4	2.381	50	80	12	80	65	62	9	M6	1x4	1296	4838	71
DFU03206-4		6	3.969	50	80	12	105	65	62	9	M6	1x4	2632	7979	78
DFU03208-4		8	4.762	50	80	12	122	65	62	9	M6	1x4	3387	9622	82
DFU04006-4	40	6	3.969	63	93	14	108	78	70	9	M6	1x4	2873	9913	91
DFU04008-4		8	4.762	63	93	14	132	78	70	9	M6	1x4	3712	11947	96
DFU05020-4	50	20	7.144	75	110	16	280	93	85	11	M8	1x4	7142	22588	126
DFU06320-4	63	20	9.525	95	135	20	290	115	100	13.5	M8	1x4	11444	36653	152
DFU08020-4	80	20	9.525	125	165	25	295	145	130	13.5	M8	1x4	12911	47747	187
DFU10020-4	100	20	9.525	150	202	30	340	170	155	17.5	M8	1x4	14303	60698	222

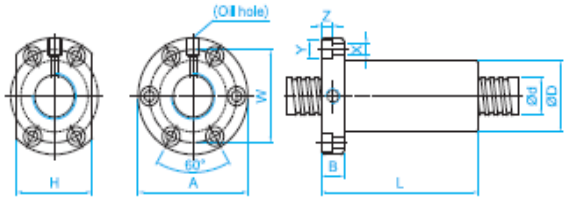
SFNI／SFI Series Specifications



Unit:mm

Model No.	d	l	Da	Dimension											Load Rating		K kgf／μm
				D	A	B	L	W	H	X	Y	Z	Q	n	Ca (kgf)	Coa (kgf)	
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
SFI01604-4	16	4	2.381	30	49	10	45	39	34	4.5	8	4.5	M6	1x4	973	2406	32
SFI02004-4	20	4	2.381	34	57	11	46	45	40	5.5	9.5	5.5	M6	1x4	1066	2987	37
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
SFI0255T-4		5.08	3.175	40	63	11	51	51	46	5.5	9.5	5.5	M8	1x4	1724	4904	45
SFI03204-4	32	4	2.381	46	72	12	47	58	52	6.5	11	6.5	M6	1x4	1296	4838	49

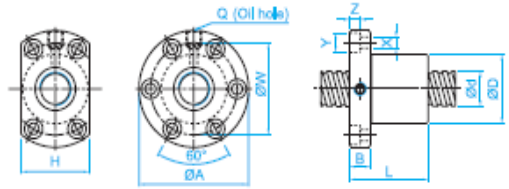
OFI／DFI Series Specifications



Unit:mm

Model No.	d	l	Da	Dimension											Load Rating		K kgf／μm
				D	A	B	L	W	H	X	Y	Z	Q	n	Ca (kgf)	Coa (kgf)	
OFI01605-4	16	5	3.175	30	49	10	75	39	34	4.5	8	4.5	M6	1x4	1380	3052	44
OFI02005-4	20	5	3.175	34	57	11	85	45	40	5.5	9.5	5.5	M6	1x4	1551	3875	52
OFI02505-4	25	5	3.175	40	63	11	86	51	46	5.5	9.5	5.5	M8	1x4	1724	4094	62
OFI02510-4		10	4.762	46	72	12	130	58	52	6.5	11	6.5	M6	1x4	2954	7295	68
OFI03205-4	32	5	3.175	46	72	12	87	58	52	6.5	11	6.5	M8	1x4	1922	6343	72
OFI03210-4		10	6.35	54	88	15	145	70	62	9	14	8.5	M8	1x4	4805	12208	83
OFI04005-4	40	5	3.175	56	90	15	90	72	64	9	14	8.5	M8	1x4	2110	7988	84
OFI04010-4		10	6.35	62	104	18	148	82	70	11	17.5	11	M8	1x4	5399	15500	99
OFI05010-4	50	10	6.35	72	114	18	148	92	82	11	17.5	11	M8	1x4	6004	19614	115
OFI06310-4	63	10	6.35	85	131	22	153	107	95	14	20	13	M8	1x4	6719	25358	135
OFI08010-4	80	10	6.35	105	150	22	153	127	115	14	20	13	M8	1x4	7346	31953	156
DFI01604-4	16	4	2.381	30	49	10	80	39	34	4.5	8	4.5	M6	1x4	973	2406	44
DFI02004-4	20	4	2.381	34	57	11	80	45	40	5.5	9.5	5.5	M6	1x4	1066	2987	51
DFI02504-4	25	4	2.381	40	63	11	80	51	46	5.5	9.5	5.5	M6	1x4	1180	3795	60
DFI0255T-4		5.08	3.175	40	63	11	101	51	46	5.5	9.5	5.5	M8	1x4	1724	4094	62
DFI03204-4	32	4	2.381	46	72	12	80	58	52	6.5	11	6.5	M6	1x4	1296	4838	69
DFI0325T-4		5.08	3.175	46	72	12	102	58	52	6.5	11	6.5	M8	1x4	1922	6343	72

SFM Series Specifications (Design for Milling)

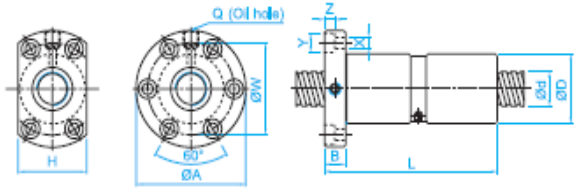


Unit:mm

Model No.	d	l	Da	Dimension											Load Rating		K kgf／μm
				D	A	B	L	W	H	X	Y	Z	Q	n	Ca (kgf)	Coa (kgf)	
☆ SFM03205-4	32	5	3.175	48	74	12	52	60	60	6.5	11	6.5	M8	1x4	1922	6343	53
☆ SFM0325T-4		5.08	3.175	48	74	12	53	60	60	6.5	11	6.5	M8	1x4	1922	6343	53

Note : For double ball screw nut order, please contact ***TBIMOTION*** in advance.
※☆Left helix available

DFM Series Specifications (Design for Milling)

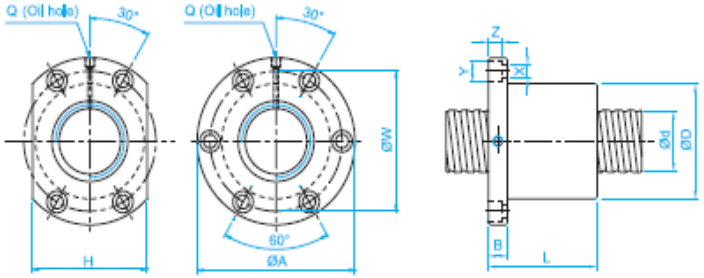


Unit:mm

Model No.	d	l	Da	Dimension											Load Rating		K kgf／μm
				D	A	B	L	W	H	X	Y	Z	Q	n	Ca (kgf)	Coa (kgf)	
☆ DFM03205-4	32	5	3.175	48	74	12	102	60	60	6.5	11	6.5	M8	1x4	1922	6343	73
☆ DFM0325T-4		5.08	3.175	48	74	12	104	60	60	6.5	11	6.5	M8	1x4	1922	6343	73

Note : For double ball screw nut order, please contact ***TBIMOTION*** in advance.
※☆Left helix available

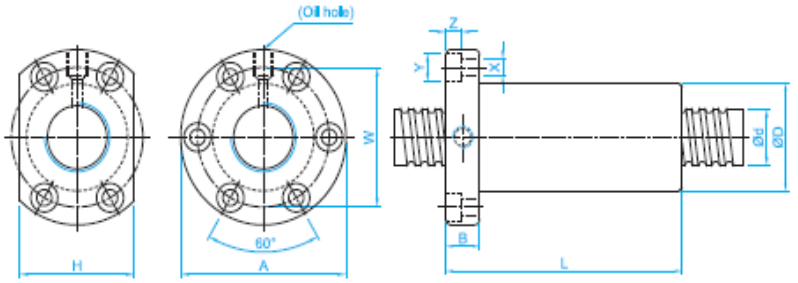
SFV Series Specifications



Unit : mm

Model No.	d	l	Da	Dimension											Load Rating		K kgf／μm
				D	A	B	L	W	H	X	Y	Z	Q	n	Ca (kgf)	Coa (kgf)	
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

OFV／DFV Series Specifications

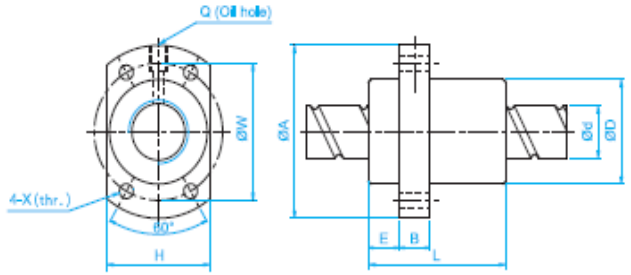


Unit : mm

Model No.	d	l	Da	Dimension											Load Rating		K kgf／μm
				D	A	B	L	W	H	X	Y	Z	Q	n	Ca (kgf)	Coa (kgf)	
OFV01605-4.8	16	5	3.175	40	63	11	100	51	42	5.5	9.5	5.5	M6	4.8x1	1614	3662	53
OFV02005-4.8	20	5	3.175	44	67	11	102.5	55	52	5.5	9.5	5.5	M6	4.8x1	1814	4650	63
OFV02505-4.8	25	5	3.175	50	73	11	96	61	52	5.5	9.5	5.5	M8	4.8x1	2017	5884	75
OFV03205-4.8	32	5	3.175	58	85	12	98	71	64	6.6	11	6.5	M8	4.8x1	2249	7612	90
OFV03210-4.8		10	6.35	74	108	15	166	90	82	9	14	9	M8	4.8x1	5620	14649	101
OFV04005-4.8	40	5	3.175	67	101	15	100	83	72	9	14	8.5	M8	4.8x1	2468	9586	105
OFV04010-4.8		10	6.35	82	124	18	174	102	94	11	17.5	11	M8	4.8x1	6316	18600	121
OFV05010-4.8	50	10	6.35	93	135	16	167	113	98	11	17.5	11	M8	4.8x1	7023	23537	144
OFV06310-4.8	63	10	6.35	108	154	22	177	130	110	14	20	13	M8	4.8x1	7860	30430	172
OFV08010-4.8	80	10	6.35	130	176	22	178	152	132	14	20	13	M8	4.8x1	8593	38344	201
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
DFV02004-4.8	20	4	2.381	40	60	10	94	50	40	4.5	8	4	M6	4.8x1	1247	3584	61
DFV02010-2.7		10	3.969	46	74	13	117	59	46	6.6	11	6.5	M6	2.7x1	1518	3398	40
DFV02506-4.8	25	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
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
DFV03220-2.7		20	6.35	74	108	16	200	90	82	9	14	8.5	M8	2.7x1	3509	8644	61
DFV04020-2.7	40	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
DFV05020-2.7		20	9.525	105	152	28	221	128	110	14	20	13	M8	2.7x1	7336	19700	90
DFV06320-2.7	63	20	9.525	122	180	28	220	150	130	18	26	17.5	M8	2.7x1	8162	24741	107
DFV08020-4.8	80	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

Note : For double ball screw nut order, please contact *TBIMOTION* in advance.

SFY Series Specifications

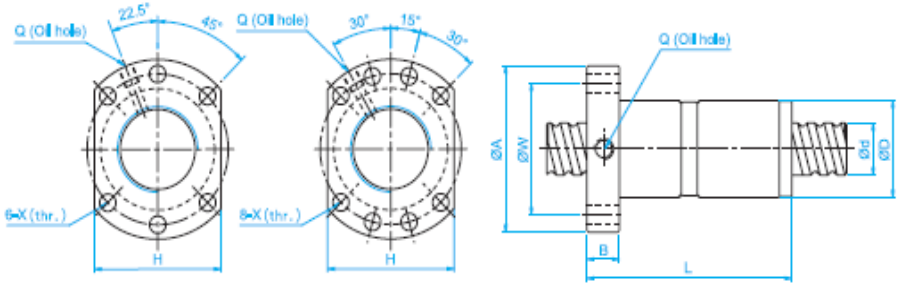


Unit : mm

Large Lead Model No.	d	l	Da	Dimension										Load Rating		K kgf／μm
				D	A	E	B	L	W	H	X	Q	n	Ca (kgf)	Coa (kgf)	
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

Twin Lead Model No.	d	l	Da	Dimension										Ca (kgf)	Coa (kgf)	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
SFY050100-1.6	50	100	7.938	90	135	21.5	20	111	112	92	14	M6	0.8x2	3398	9980	35
SFY050100-3.6		100	7.938	90	135	21.5	20	211	112	92	14	M6	1.8x2	6824	22455	72

DFS (DIN 69051 FORM B) Series Specifications

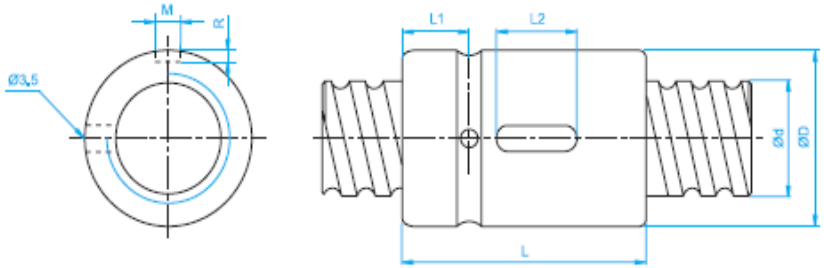


Unit : mm

Model No.	d	l	Da	Dimension									Load Rating		K kgf／μm
				D	A	B	L	W	H	X	Q	n	Ca (kgf)	Coa (kgf)	
DFS01605-3.8	15	5	2.778	28	48	10	73	38	40	5.5	M6	3.8x1	1112	2507	41
DFS01610-2.8		10	2.778	28	48	10	97	38	40	5.5	M6	2.8x1	839	1821	31
DFS02005-3.8	20	5	3.175	36	58	10	75	47	44	6.6	M6	3.8x1	1484	3681	50
DFS02010-3.8		10	3.175	36	58	10	120	47	44	6.6	M6	3.8x1	1516	3833	53
DFS02505-3.8	25	5	3.175	40	62	10	75	51	48	6.6	M6	3.8x1	1650	4658	59
DFS02510-3.8		10	3.175	40	62	12	122	51	48	6.6	M6	3.8x1	1638	4633	61
DFS03205-3.8	32	5	3.175	50	80	12	82	65	62	9	M6	3.8x1	1839	6026	71
DFS03210-3.8	31	10	3.969	50	80	13	122	65	62	9	M6	3.8x1	2460	7255	75
DFS03220-2.8		20	3.969	50	80	12	160	65	62	9	M6	2.8x1	1907	5482	58
DFS04005-3.8	40	5	3.175	63	93	15	85	78	70	9	M8	3.8x1	2018	7589	83
DFS04010-3.8	38	10	6.35	63	93	14	123	78	70	9	M8	3.8x1	5035	13943	91
DFS04020-2.8		20	6.35	63	93	14	162	78	70	9	M8	2.8x1	3959	10715	73
DFS05005-3.8	50	5	3.175	75	110	15	85	93	85	11	M8	3.8x1	2207	9542	96
DFS05010-3.8	48	10	6.35	75	110	18	138	93	85	11	M8	3.8x1	5638	17852	109
DFS05020-3.8		20	6.35	75	110	18	218	93	85	11	M8	3.8x1	5749	18485	116

Note : For double ball screw nut order, please contact ***TBIMOTION*** in advance.

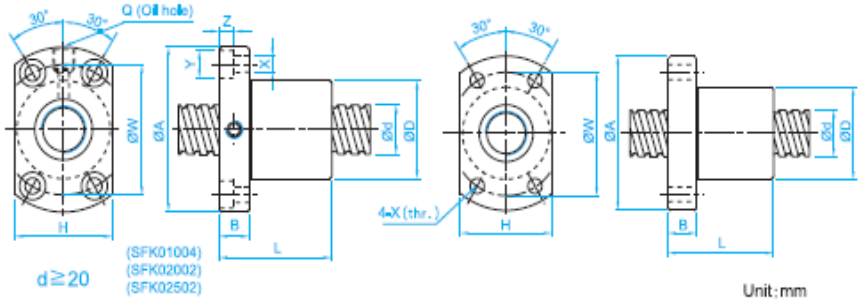
SCNI／SCI Series Specifications



Unit: mm

Model No.	d	l	Da	Dimension							Load Rating		K kgf／μm
				D	L	L1	L2	M	R	n	Ca (kgf)	Coa (kgf)	
SCNI01605-4	16	5	3.175	30	45	9	20	5	3	1x4	1380	3052	33
SCNI02005-4	20	5	3.175	34	45	9	20	5	3	1x4	1551	3875	39
SCNI02505-4	25	5	3.175	40	45	9	20	5	3	1x4	1724	4904	45
SCNI02510-4		10	4.762	46	85	13	30	5	3	1x4	2954	7295	51
SCNI03205-4	32	5	3.175	46	45	9	20	5	3	1x4	1922	6343	52
SCNI03210-4		10	6.35	54	85	13	30	5	3	1x4	4805	12208	62
SCNI04005-4	40	5	3.175	56	45	9	20	5	3	1x4	2110	7988	59
SCNI04010-4		10	6.35	62	85	13	30	5	3	1x4	5399	15500	72
SCNI05010-4	50	10	6.35	72	85	13	30	5	3	1x4	6004	19614	83
SCNI06310-4	63	10	6.35	85	85	13	30	6	3.5	1x4	6719	25358	95
SCNI08010-4	80	10	6.35	105	85	13	30	8	4.5	1x4	7346	31953	109
SCI01604-4	16	4	2.381	30	40	9	15	3	1.5	1x4	973	2406	32
SCI02004-4	20	4	2.381	34	40	9	15	3	1.5	1x4	1066	2987	37
SCI02504-4	25	4	2.381	40	40	9	15	3	1.5	1x4	1180	3795	43
SCI03204-4	32	4	2.381	46	40	9	15	3	1.5	1x4	1296	4838	49

SFK Series Specifications



Unit: mm

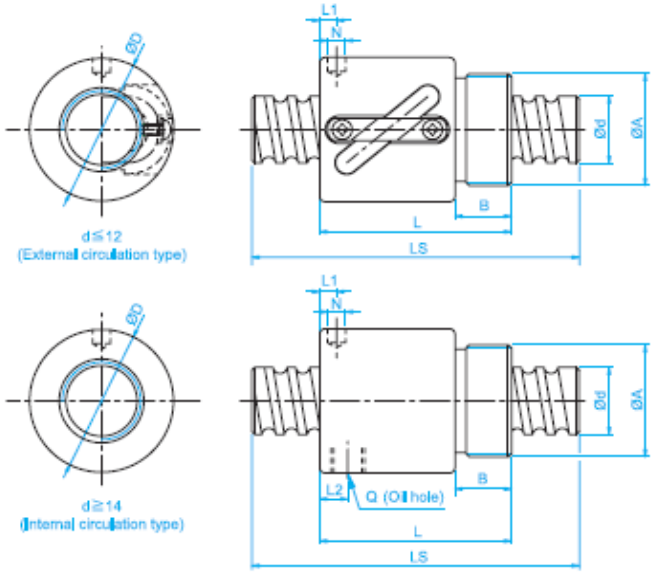
Model No.	d	l	Da	Dimension											Ca (kgf)	Coa (kgf)	K kgf／μm
				D	A	B	L	W	H	X	Y	Z	Q	n			
SFK00401	4	1	0.8	10	20	3	12	15	14	2.9	–	–	–	1x2	64	97	5
SFK00601	6	1	0.8	12	24	3.5	15	18	16	3.4	–	–	–	1x3	111	224	9
☆ SFK00801	8	1	0.8	14	27	4	16	21	18	3.4	–	–	–	1x4	161	403	14
☆ SFK00802		2	1.2	14	27	4	16	21	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

※☆Left helix available

Unit: mm

Model No.	d	l	Da	Dimension											Ca (kgf)	Coa (kgf)	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

BSH Series Specifications



Unit : mm

Model No.	d	l	Da	Dimension									Ca (kgf)	Coa (kgf)	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

※Standard ball nut from Ø8~Ø16 is assembled without wiper.

2-3 Rolled Ball Screw

2-3-1 Rolled Screws

Rolled screws are made through thread roller. Generally rolled screw has a smoother operation while lowering friction and backlash. Therefore, it gradually replaced the traditional ACME screws and trapezoidal screws. Moreover, rolled screws can eliminate axial play by preloading nut with a cost effective pricing compare to ground screw.

2-3-2 The Features of *TBIMOTION* Rolled Ball Screw

(1) Lead Accuracy Up to Grade C5

C7 and C10 Screws have been Standardized. C5 on request.

(2) Precision Ground Ball Nut

TBIMOTION High Precision Ball Nut are interchangeable between ground and rolled screws.

(3) Maximize Interchangeability

TBIMOTION Ball screw and ball nuts can be shipped separated ensure shortest delivery time. The ball nuts are standardized with P0 preloaded, preload value can be adjusted through reballing.

2-3-3 Nominal Model Code of Rolled Ball Screws

Nominal Model Code of Shaft

SC R 025 05 F C7 - 1000 + N3

- Type of Screw Shaft — SC : standard SS : For SFS, DFS Only
- 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 Treatment — □ : Standard B1 : Black Oxidation N1 : Hard Chrome Plating P : Phosphating N3 : Nickel Plating N4 : Raydent N5 : Balck Chrome Plating

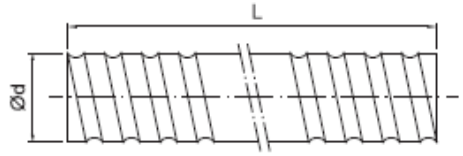


Fig 2.3.1 Screw Shaft Nominal Diameter

Table 2.3.1 Rolled Ball Screw Specifications Ø 6~32

Unit : mm

Model No. d	Model No. l	Model No. Da	Accuracy Grade	Threading Direction R:Right L:Left	Number of Grooves	Standard Code of Shaft	Type of Nut	Overall Length of Shaft
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	SCR00825	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	NU, BSH	
	5	2.5	C10, C7, C5	R	1	SCR01205-A	V, NU, BSH, H	
	5	2.5	C10, C7, C5	R	1	SCR01205-B	K	
	10	2.5	C10, C7, C5	R	2	SCR01210-B	V	
	20	2.5	C10, C7	R	4	SCR01220	Y	
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, NI, NU, BSH	3000
	5	3.175	C10, C7, C5	R/L	1	SCR01605	V, NI, NU, BSH	
	10	3.175	C10, C7, C5	R	2	SCR01610	V, NI, NU, 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, NI, NU	3000
	5	3.175	C10, C7, C5	R/L	1	SCR02005	V, NI, NU, BSH, H	
	20	3.175	C10, C7, C5	R	4	SCR02020	V, Y, H	
	40	3.175	C10, C7	R	8	SCR02040	Y	
25	4	2.381	C10, C7	R	1	SCR02504(N)	NI, NU	6000
	5	3.175	C10, C7, C5	R/L	1	SCR02505	V, NI, NU, BSH, H	
	10	4.762	C10, C7, C5	R	1	SCR02510-A	NI, NU, 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, NI, NU	6000
	5	3.175	C10, C7, C5	R/L	1	SCR03205	V, NI, NU, M, H	
	10	6.35	C10, C7, C5	R/L	1	SCR03210	V, NI, NU	
	32	4.762	C10, C7	R	4	SCR03232	Y	
	64	4.762	C10, C7	R	8	SCR03264	Y	

Table2.3.2 Standard Specifications Ø40~80

Unit:mm

Model No.			Accuracy Grade	Threading Direction R : Right L : Left	Number of Grooves	Standard Code of Shaft	Type of Nut	Overall Length of Shaft
d	l	Da						
40	5	3.175	C10, C7, C5	R/L	1	SCR04005	V, NI, NU, H	6000
	10	6.35	C10, C7	R/L	1	SCR04010	V, NI, NU	
	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, H	6000
	10	6.35	C10, C7, C5	R/L	1	SCR05010	V, NI, NU	
	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, NI, NU	7000
	20	9.525	C10, C7	R	1	SCR06320	V, NU	
80	10	6.35	C10, C7, C5	R	1	SCR08010	V, NI, NU	7000
	20	9.525	C10, C7	R	1	SCR08020	V, NU	

Table2.3.2 H-Type Specifications Ø12~50

Unit:mm

Model No.			Accuracy Grade	Threading Direction R : Right L : Left	Number of Grooves	Type=H Code of Shaft	Type of Nut	Overall Length of Shaft
d	l	Da						
16	5	2.778	C10, C7, C5	R	1	SSR01605	H	3000
	10	2.778	C10, C7, C5	R	2	SSR01610	H	
	16	2.778	C10, C7, C5	R	4	SSR01616	H	
20	10	3.175	C10, C7, C5	R	2	SSR02010	H	3000
25	10	3.175	C10, C7, C5	R	2	SSR02510	H	6000
	25	3.175	C10, C7	R	4	SSR02525	H	
32	10	3.969	C10, C7, C5	R	1	SSR03210	H	6000
	20	3.969	C10, C7	R	2	SSR03220	H	
40	10	6.35	C10, C7	R	1	SSR04010	H	6000
50	10	6.35	C10, C7	R	1	SSR05010	H	6000

※The information is for standard production, if required accuracy grade C5 or other needs, please contact ***TBIMOTION***.

Nominal Model Code of Nut

G SFU R 025 05 T4 D + N3

Product Code

Nominal Model

S
- S : Single nut
- D : Double nut

F
- F : With flange
- C : Without flange

U
- NI : NI type nut
- NU : NU type nut
- H : H type nut
- Y : Y type nut
- V : V type nut
- U : DIN nut
- M : M type nut
- K : K type nut

Threading Direction
R : Right L : Left

Nominal Diameter
Unit : mm

Lead
Unit : mm

Number of Turns (Turn · Row)
Turn : T : 1 A : 1.5 (or 1.7/1.8) B : 2.5/2.8 C : 3.5 D : 4.8
ex : (2.5 · 2 = B2)

Flange Type
N : Not cutting S : Single cutting D : Double cutting

Nut Surface Treatment
□ : Standard B1 : Black Oxidation N1 : Hard Chrome Plating P : Phosphating
N3 : Nickel Plating N4 : Raydent N5 : Balck Chrome Plating

2-3-4 Preload of Rolled Ball Screw

The standard preloading for Rolled Ball Screw is P0. If P1 preloading is required, please contact ***TBIMOTION***.

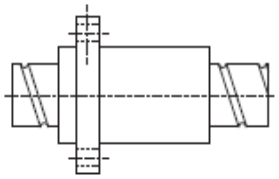
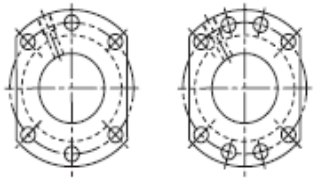
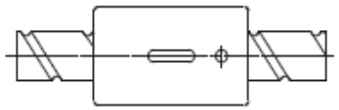
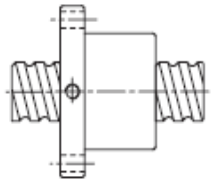
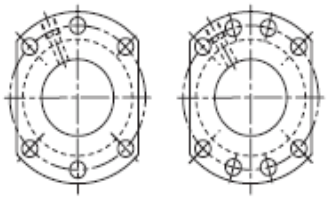
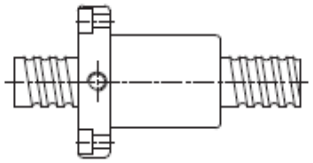
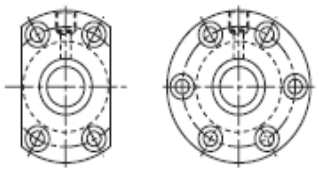
Table2.3.2 Rolled screw accuracy

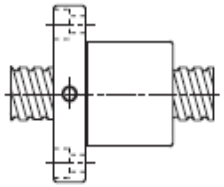
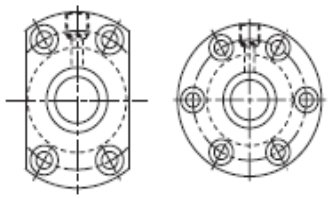
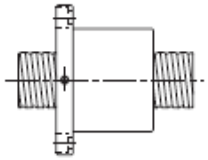
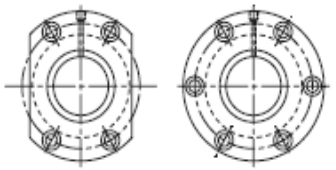
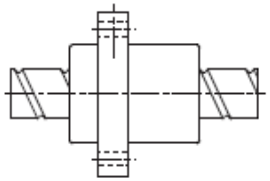
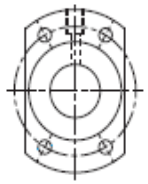
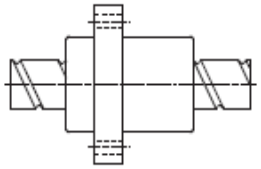
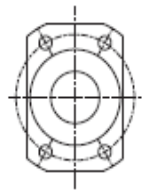
Unit: μm

Accuracy Grade	C5 (DIN)	C7	C10
e_{300}	23	50	210

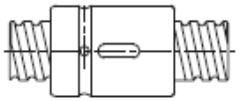
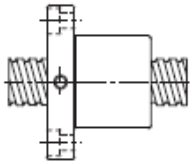
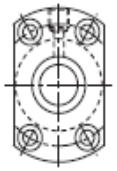
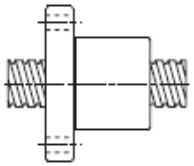
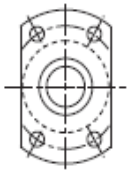
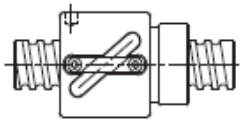
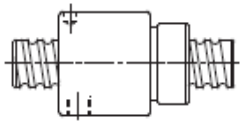
2-4 Rolled Ball Screw Series

2-4-1 *TBIMOTION* Nut of Rolled Ball Screw Type

	Nut Type	Flange Type
NH／H (High Speed/Strong dust-proof type)	SFNH／SFH  C68	 d≦32 d≧40
CNH (Actuator type)	SCNH  C69	No-Flange
NU／U (Strong dust-proof type)	SFNU／SFU  C70	 d≦32 d≧40
NI／I (Strong dust-proof type)	SFNI／SFI  C71	

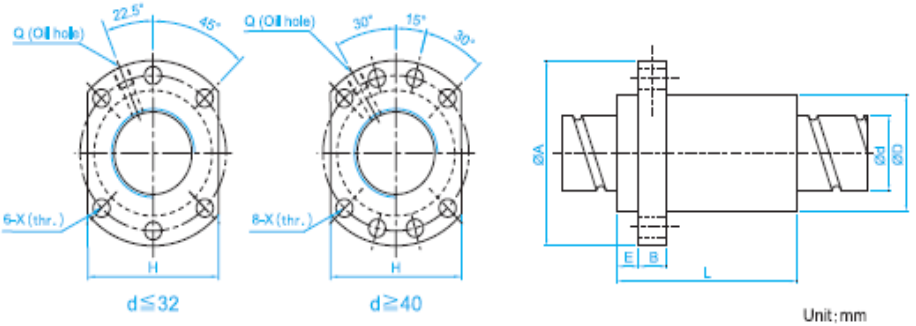
	Nut Type	Flange Type
M (Design for Milling)	SFM  C71	
V (High Load External Circulation type)	SFV  C72	
Y (High DM-N Rating)	SFY  C73	
XSY (Miniature type)	XSY  C74	

BALL SCREW

	Nut Type	Flange Type
CNI/I (Standard)	SCNI/SCI  C75	No-Flange
K (Miniature type)	SFK  C76	 (SFK 01004) (SFK 02002) (SFK 02502)
	SFK  C76	
BSH	BSH  d≦12  d≧14 C77	No-Flange

※The information is for standard production, if other needs please contact *TBIMOTION*.

SFNH/SFH (DIN 69051 FORM B) Series Specifications

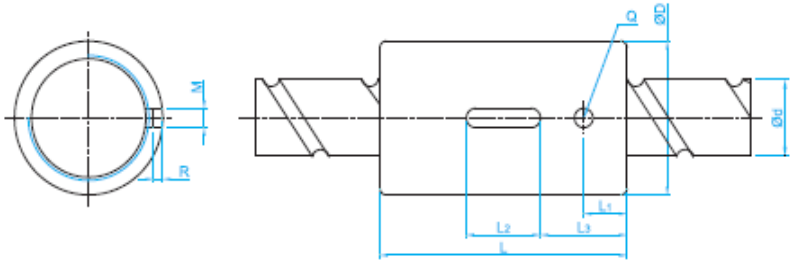


Unit: mm

	Model No.	d	l	Da	Dimension										Load Rating		K kgf/μm
					D	A	E	B	L	W	H	X	Q	n	Ca (kgf)	Coa (kgf)	
★	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

※★Actuator type available (SFNH series).

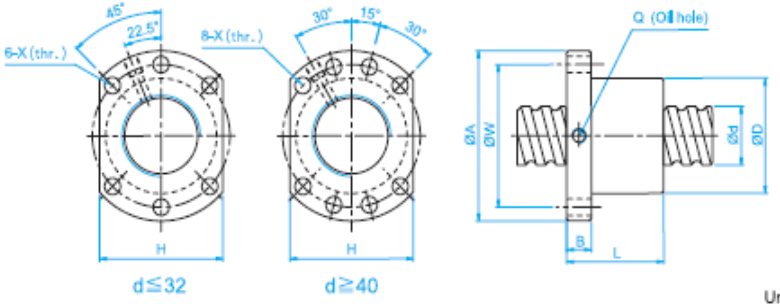
SCNH Series Specifications



Unit:mm

Model No.	d	l	Da	Dimension									Load Rating		K kgf/μm
				D	L	L1	L2	L3	M	R	Q	n	Ca (kgf)	Coa (kgf)	
SCNH01205-4.8	12	5	2.5	24	40	7	12	14	3	1.5	3	4.8x1	536	794	34
SCNH01210-2.8		10	2.5	24	45	8	15	15	3	1.5	3	2.8x1	642	1287	19
XCNH01210-1.8		10	2.5	24	40	10.5	12	14	3	1.5	3	1.8x1	422	771	33
SCNH01605-5.8	15	5	2.778	28	45	7	20	12.5	5	3	3	5.8x1	1599	3827	49
SCNH01610-2.8		10	2.778	28	45	7	20	12.5	5	3	3	2.8x1	839	1821	23
SCNH01616-1.8		16	2.778	28	45	7	20	12.5	5	3	3	1.8x1	552	1137	18
SCNH01620-1.8		20	2.778	28	58	10	20	19	5	3	3	1.8x1	808	1769	14
SCNH02005-5.8	20	5	3.175	36	47	8	20	13.5	5	3	3	5.8x1	2134	5619	60
SCNH02010-3.8		10	3.175	36	55	8	20	17.5	5	3	3	3.8x1	1516	3833	40
SCNH02020-1.8		20	3.175	36	55	8	20	17.5	5	3	3	1.8x1	764	1758	19

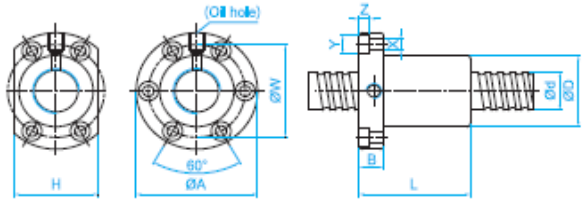
SFNU／SFU (DIN 69051 FORM B) Series Specifications



Unit:mm

Model No.	d	l	Da	Dimension									Load Rating		K kgf/μm
				D	A	B	L	W	H	X	Q	n	Ca (kgf)	Coa (kgf)	
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
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
SFU02004-4	20	4	2.381	36	58	10	42	47	44	6.6	M6	1x4	1066	2987	38
SFU02504-4	25	4	2.381	40	62	10	42	51	48	6.6	M6	1x4	1180	3795	43
SFU03204-4	32	4	2.381	50	80	12	44	65	62	9	M6	1x4	1296	4838	51
SFU05020-4	50	20	7.144	75	110	16	138	93	85	11	M8	1x4	7142	22588	94
SFU06320-4	63	20	9.525	95	135	20	149	115	100	13.5	M8	1x4	11444	36653	112
SFU08020-4	80	20	9.525	125	165	25	154	145	130	13.5	M8	1x4	12911	47747	138
SFU10020-4	100	20	9.525	150	202	30	180	170	155	17.5	M8	1x4	14303	60698	162

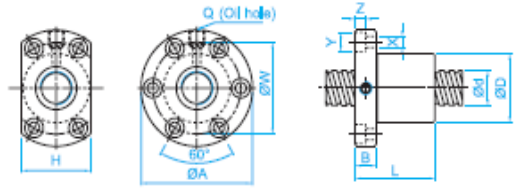
SFNI／SFI Series Specifications



Unit:mm

Model No.	d	l	Da	Dimension											Load Rating		K kgf/μm
				D	A	B	L	W	H	X	Y	Z	Q	n	Ca (kgf)	Coa (kgf)	
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
SFI01604-4	16	4	2.381	30	49	10	45	39	34	4.5	8	4.5	M6	1x4	973	2406	32
SFI02004-4	20	4	2.381	34	57	11	46	45	40	5.5	9.5	5.5	M6	1x4	1066	2987	37
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
SFI0255T-4		5.08	3.175	40	63	11	51	51	46	5.5	9.5	5.5	M8	1x4	1724	4904	45
SFI03204-4	32	4	2.381	46	72	12	47	58	52	6.5	11	6.5	M6	1x4	1296	4838	49

SFM Series Specifications (Design for Milling)



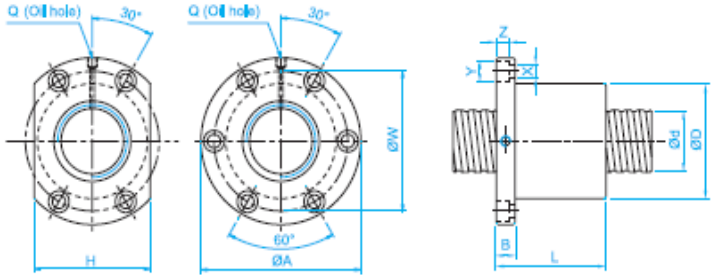
Unit:mm

Model No.	d	l	Da	Dimension											Load Rating		K kgf/μm
				D	A	B	L	W	H	X	Y	Z	Q	n	Ca (kgf)	Coa (kgf)	
☆ SFM03205-4	32	5	3.175	48	74	12	52	60	60	6.5	11	6.5	M8	1x4	1922	6343	53
☆ SFM0325T-4		5.08	3.175	48	74	12	53	60	60	6.5	11	6.5	M8	1x4	1922	6343	53

Note : For double ball screw nut order, please contact *TBIMOTION* in advance.

※☆Left helix available

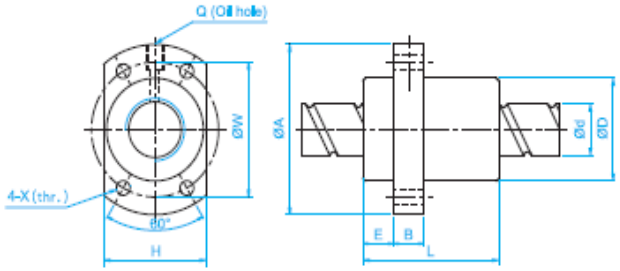
SFV Series Specifications



Unit:mm

Model No.	d	l	Da	Dimension											Load Rating		K kgf/μm
				D	A	B	L	W	H	X	Y	Z	Q	n	Ca (kgf)	Coa (kgf)	
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
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
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

SFY Series Specifications

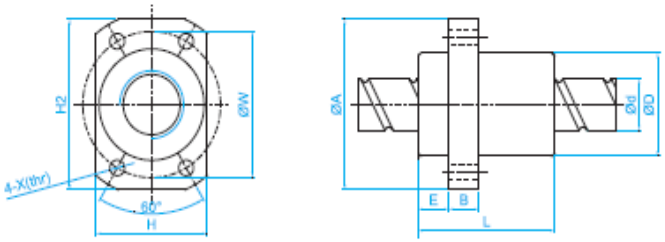


Unit: mm

Large Lead Model No.	d	l	Da	Dimension										Load Rating		K kgf／μm
				D	A	E	B	L	W	H	X	Q	n	Ca (kgf)	Coa (kgf)	
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

Twin Lead Model No.	d	l	Da	Dimension										Ca (kgf)	Coa (kgf)	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

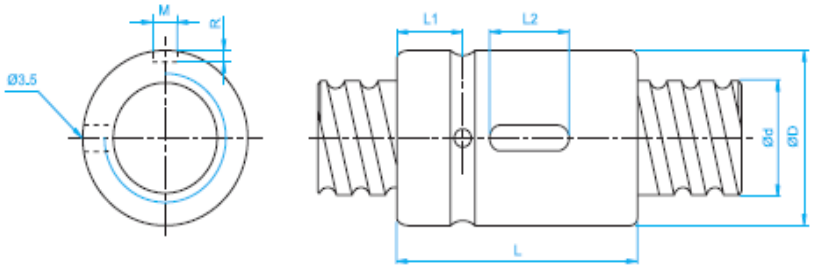
XSY Series Specifications



Unit: mm

Model No.	d	l	Da	Dimension										Load Rating		K kgf／μm
				D	A	E	B	L	W	H	H2	X	n	Ca (kgf)	Coa (kgf)	
XSYR01220A2D-00	12	20	2.5	24	41	3.8	5	50	32	24	36	4.5	1.8x2	777	1718	13

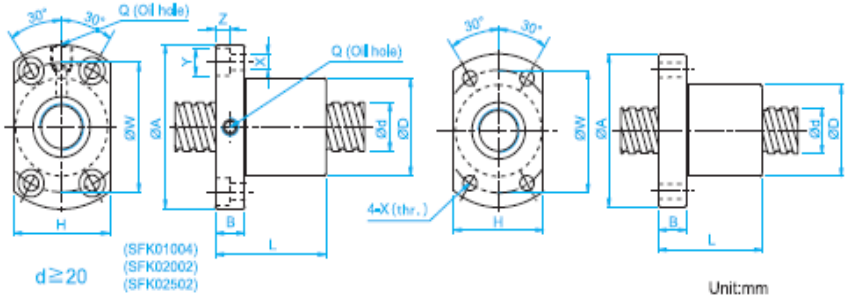
SCNI／SCI Series Specifications



Unit: mm

Model No.	d	l	Da	Dimension							Load Rating		K kgf／μm
				D	L	L1	L2	M	R	n	Ca (kgf)	Coa (kgf)	
SCNI01605-4	16	5	3.175	30	45	9	20	5	3	1x4	1380	3052	33
SCNI02005-4	20	5	3.175	34	45	9	20	5	3	1x4	1551	3875	39
SCNI02505-4	25	5	3.175	40	45	9	20	5	3	1x4	1724	4904	45
SCNI02510-4		10	4.762	46	85	13	30	5	3	1x4	2954	7295	51
SCNI03205-4	32	5	3.175	46	45	9	20	5	3	1x4	1922	6343	52
SCNI03210-4		10	6.35	54	85	13	30	5	3	1x4	4805	12208	62
SCNI04005-4	40	5	3.175	56	45	9	20	5	3	1x4	2110	7988	59
SCNI04010-4		10	6.35	62	85	13	30	5	3	1x4	5399	15500	72
SCNI05010-4	50	10	6.35	72	85	13	30	5	3	1x4	6004	19614	83
SCNI06310-4	63	10	6.35	85	85	13	30	6	3.5	1x4	6719	25358	95
SCNI08010-4	80	10	6.35	105	85	13	30	8	4.5	1x4	7346	31953	109
SCI01604-4	16	4	2.381	30	40	9	15	3	1.5	1x4	973	2406	32
SCI02004-4	20	4	2.381	34	40	9	15	3	1.5	1x4	1066	2987	37
SCI02504-4	25	4	2.381	40	40	9	15	3	1.5	1x4	1180	3795	43
SCI03204-4	32	4	2.381	46	40	9	15	3	1.5	1x4	1296	4838	49

SFK Series Specifications



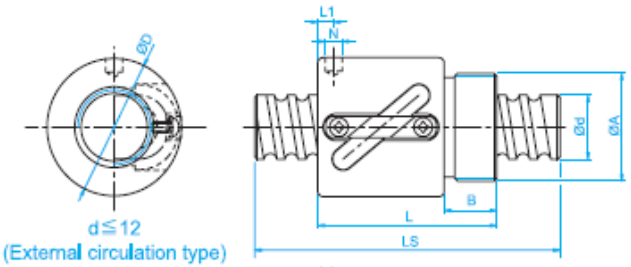
Unit:mm

Model No.	d	l	Da	Dimension											Ca (kgf)	Coa (kgf)	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

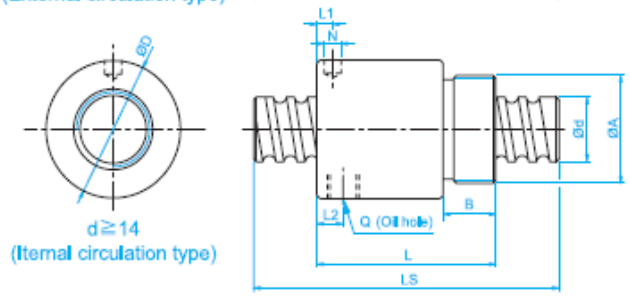
Unit:mm

Model No.	d	l	Da	Dimension											Ca (kgf)	Coa (kgf)	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

BSH Series Specifications



d≦12
(External circulation type)



d≧14
(Iternal circulation type)

Unit:mm

Model No.	d	l	Da	Dimension									Ca (kgf)	Coa (kgf)	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

※Standard ballnut from Ø8~Ø16 is assembled without wiper.