



Made in Taiwan



مهره بال اسکرو روتاری برند TBI ساخت تایوان

About Precision Rotary Ball Screw/Spline

1-1 Features of *TBI MOTION* Precision Rotary Ball Screw/Spline

TBI MOTION rotary ball screw and spline line is designed to enable the application to move linearly and rotationally in one assembly, with symmetrical orientation design between the outer and inner ball screw or spline nut. Both rotary and spiral movement can be achieved simultaneously.

TBI MOTION rotary line is the most ideal key component in scara robots, industrial robots, pick & place, laser engraving, transporting and many other multi-directional application.

Feature

Zero clearance/High rigidity

TBI MOTION rotary line featured 40° angular (Back to back) contact angle within in the bearing. It enables self-aligning with minor mounting error and bears higher axial load to achieve better accuracy. Custom preload can be applied to reduce clearance and increase high rigidity. (as shown in Fig 1.1.1)

High speed/Smooth running performance

The rotary line uses *TBI MOTION* super lead screw to maintain high speed with smoothness in performance.

Noise reduction

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

Plug and run/Compactness

TBI MOTION rotary line features a one-piece compact and easy mounting design.

Accuracy

Please refer to chart D05~10 for detail.

Spline alternative

Ball spline offers customized end journal according to print. Hollow spline is available on request for special operation environment in rentilation, piping on weight reduction.



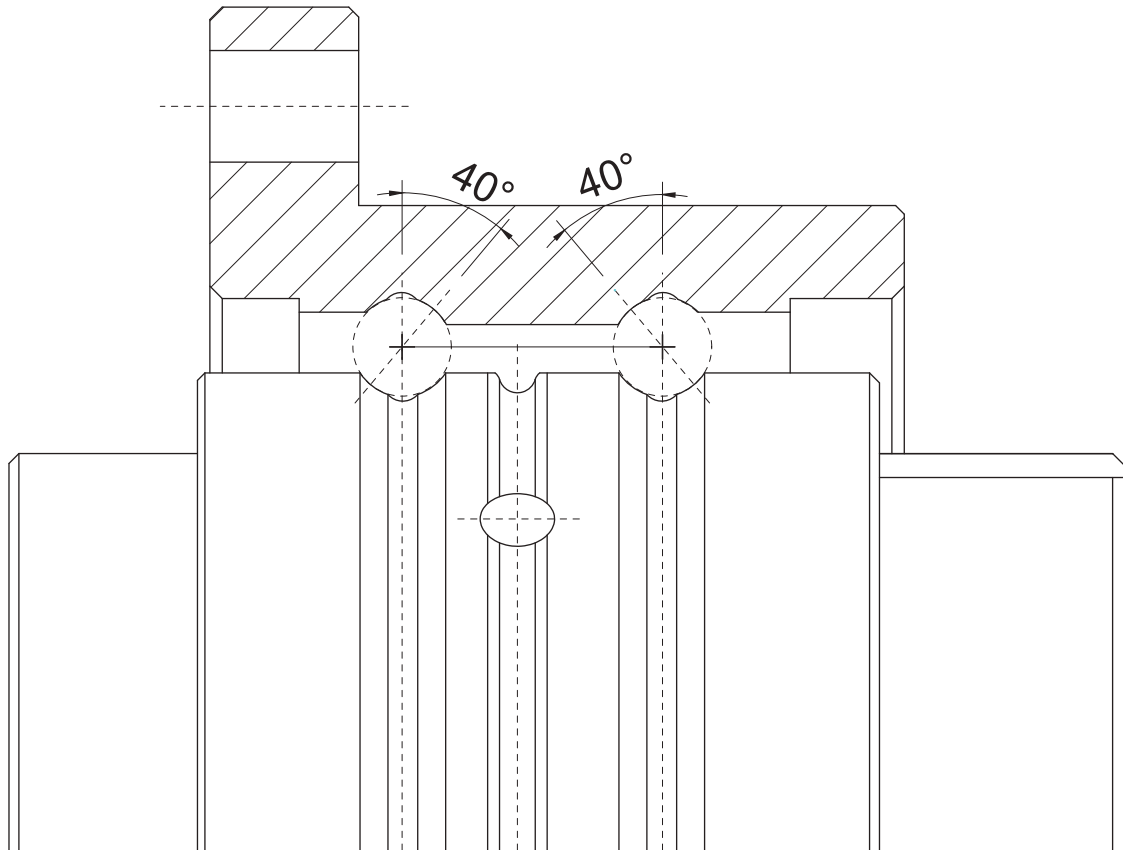
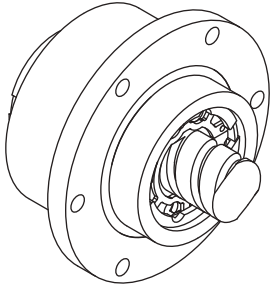
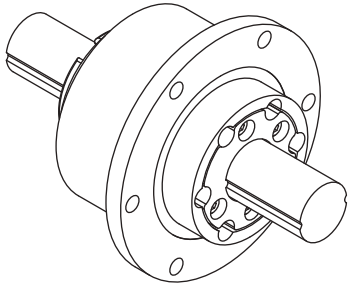
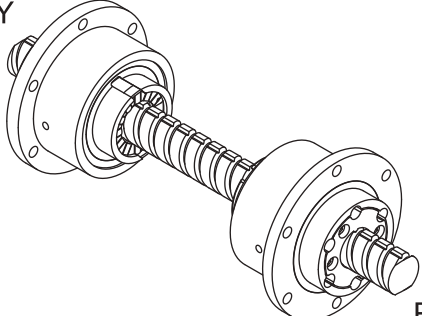
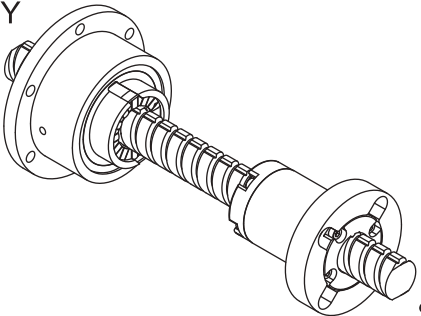


Fig 1.1.1 DB-type (Back to back)



Table 1.1.1 Mass series

Rotary Ball Screw - RFBY Type	Rotary Ball Spline - RLBF Type
	
Ball Screw/Spline - RBBY Type	Ball Screw/Spline - RBLY Type
<p>RFBY</p>  <p>RLBF</p>	<p>RFBY</p>  <p>SLF</p>

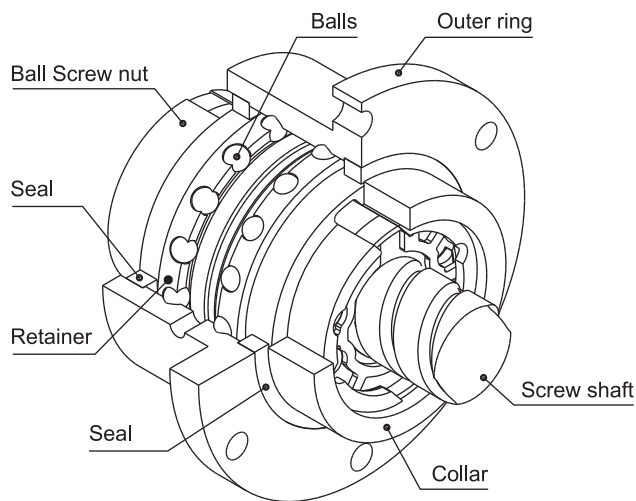


Fig 1.1.2 The Structure of RFBY - series

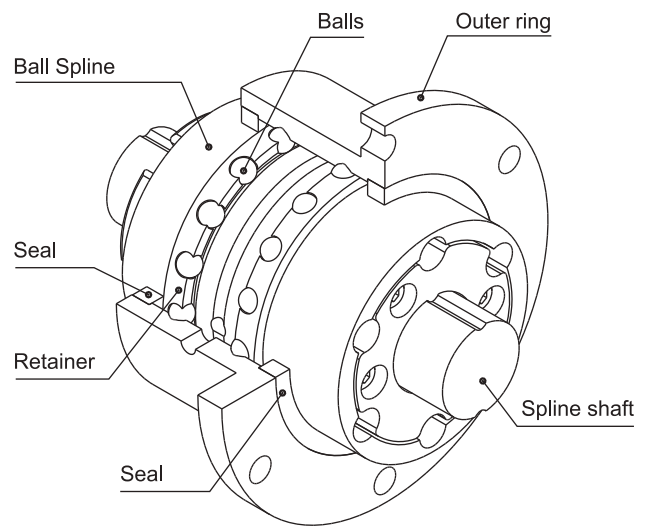
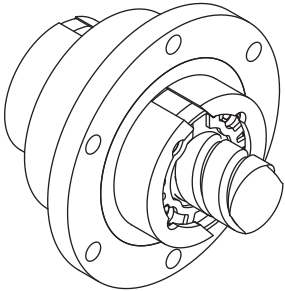
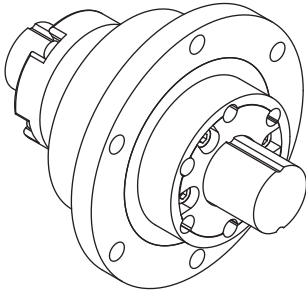
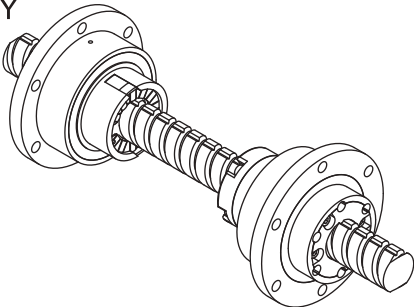
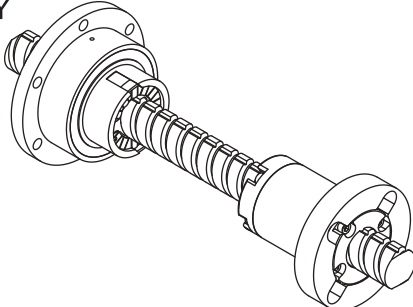


Fig 1.1.3 The Structure of RLBF - series



Table 1.1.2 Compact series

Rotary Ball Screw - RFSY Type	Rotary Ball Spline - RLSF Type
	
Ball Screw/Spline - RSSY Type	Ball Screw/Spline - RSLY Type
<p>RFSY</p>  <p>RLSF</p>	<p>RFSY</p>  <p>SLF</p>

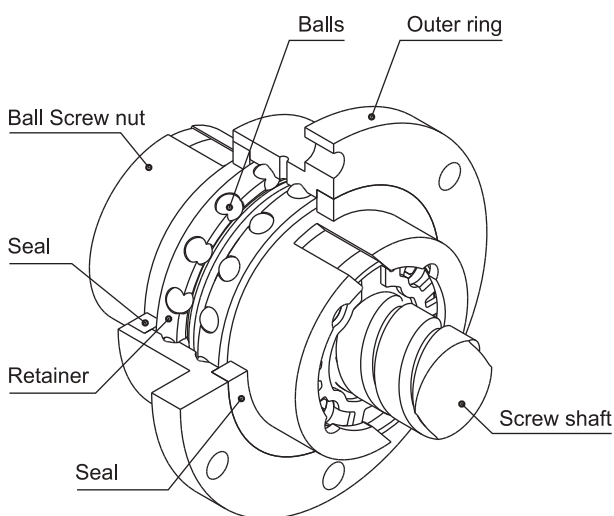


Fig 1.1.4 The Structure of RFSY - series

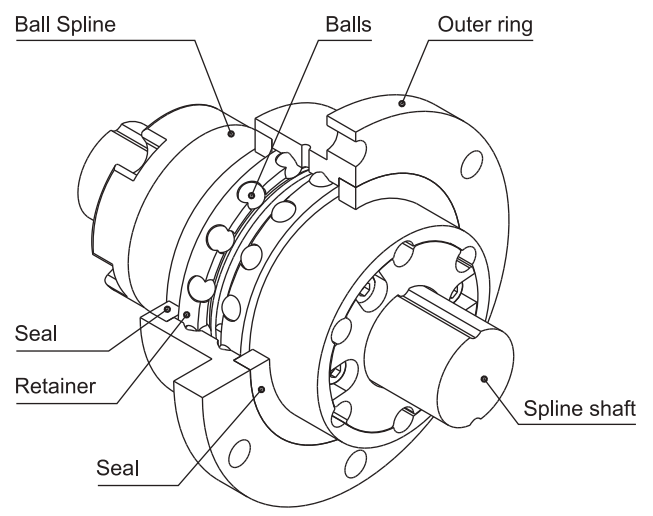


Fig 1.1.5 The Structure of RLSF - series



1-2-3 RSSY, RSLY Accuracy Standards

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

【 Ball Screw 】

Axial clearance : 0 or less

Lead accuracy : C5

(For detailed specifications, see C05)

【 Ball Spline 】

Clearance in the rotational direction : 0 or less

(CL : light preload)

(For detailed specifications, see B21~22)

Accuracy grade : class H

(For detailed specifications, see B23)

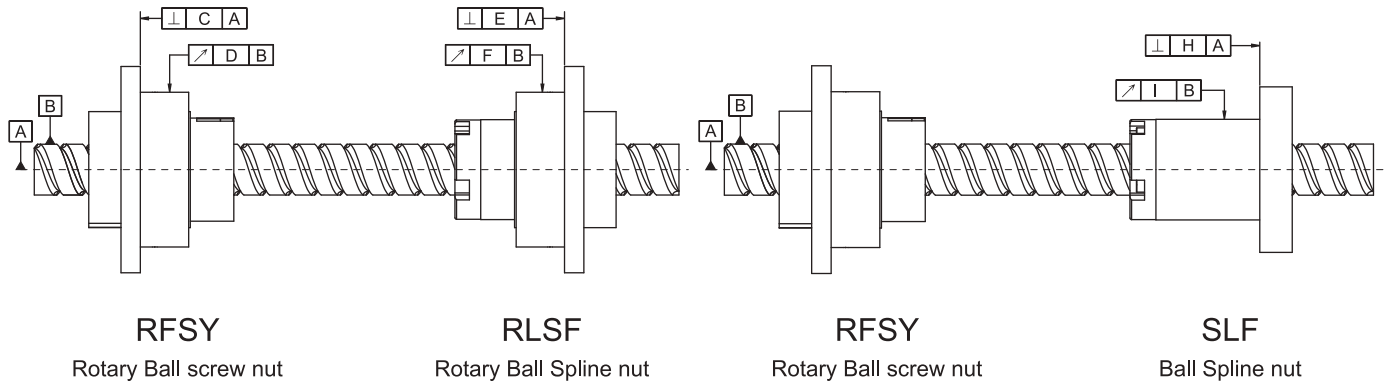


Fig 1.2.4 RSSY - series

Fig 1.2.5 RSLY - series

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



1-2-4 RFSY Accuracy Standards

The accuracy of model RFSY is compliant with JIS standard (JIS B 1192-1997) except for the radial runout of the circumference of the ball screw nut from the screw axis (D) and the perpendicularity of the flange-mounting surface against the screw axis (C).

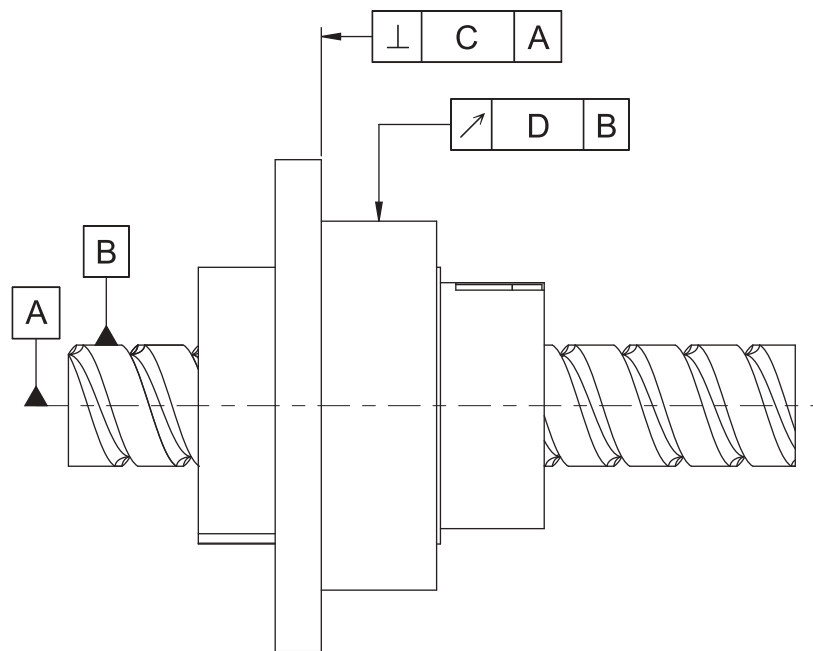


Fig 1.2.6 RFSY - series

Unit : mm

Lead angle accuracy	Rolled C7		Rolled C10		Ground C7		Ground C5		Ground C3	
	C	D	C	D	C	D	C	D	C	D
RFSY01616	0.035	0.065	0.035	0.065	0.023	0.035	0.016	0.020	0.013	0.017
RFSY02020	0.035	0.065	0.035	0.065	0.023	0.035	0.016	0.020	0.013	0.017
RFSY02525	0.035	0.065	0.035	0.065	0.023	0.035	0.018	0.024	0.015	0.020
RFSY03232	0.035	0.065	0.035	0.065	0.023	0.035	0.018	0.024	0.015	0.020
RFSY04040	0.046	0.086	0.046	0.086	0.026	0.046	0.021	0.033	0.018	0.026



1-2-5 RLBF, RLSF Accuracy Standards

Accuracy Grades

The accuracy of the Ball Spline is determined by the callout of the spline-nut and thus divided into three accuracy grades of Normal (N), High (H), and Precision (P).

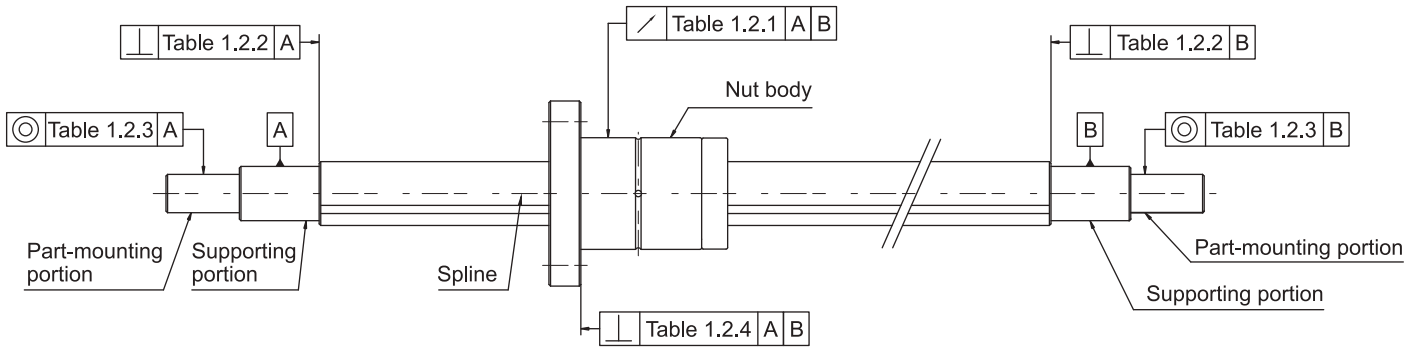


Fig 1.2.7

Accuracy Specification

Tables 1.2.1 ~ 5 indicates the the measurement items of the Ball Spline.

Table 1.2.1 The Maximum callout of Spline Nut on the support unit

Unit : μm

Length		Nominal Diameter	16, 20			25, 32			40, 50		
			N	H	P	N	H	P	N	H	P
Above	Below										
-	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



Table1.2.2 The Maximum perpendicularity of Spline-shaft end on the journal ends 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

Table1.2.3 The maximum radial callout on the 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

Table1.2.4 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

Table1.2.5 The accuracy grade on the effective length accuracy Unit : μm

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

Note : Measurement according to any 100 mm on the Spline shaft.



1-3 Example of Assembly - RFBY

1-3-1 Example of Mounting Rotary Ball Screw Nut Model RFBY

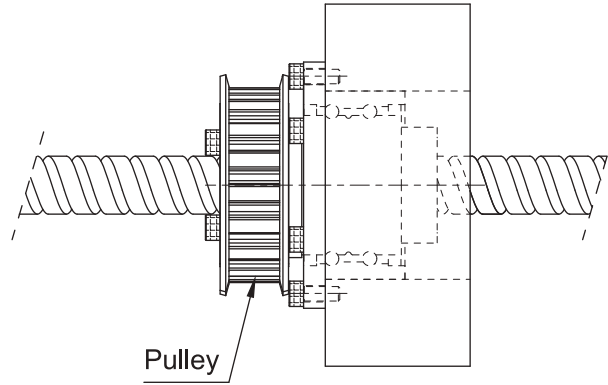


Fig 1.3.1

Example of Mounting Model RFBY on the Table

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

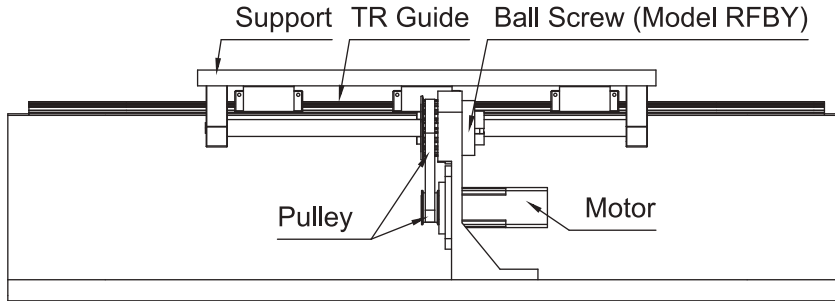


Fig 1.3.2

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

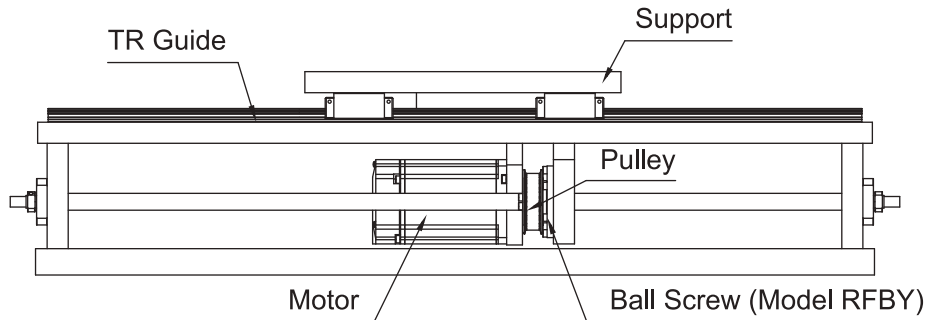


Fig 1.3.3



1-4 Example of Assembly - RBBY

1-4-1 Example of Mounting Precision Ball Screw / Spline Model RBBY

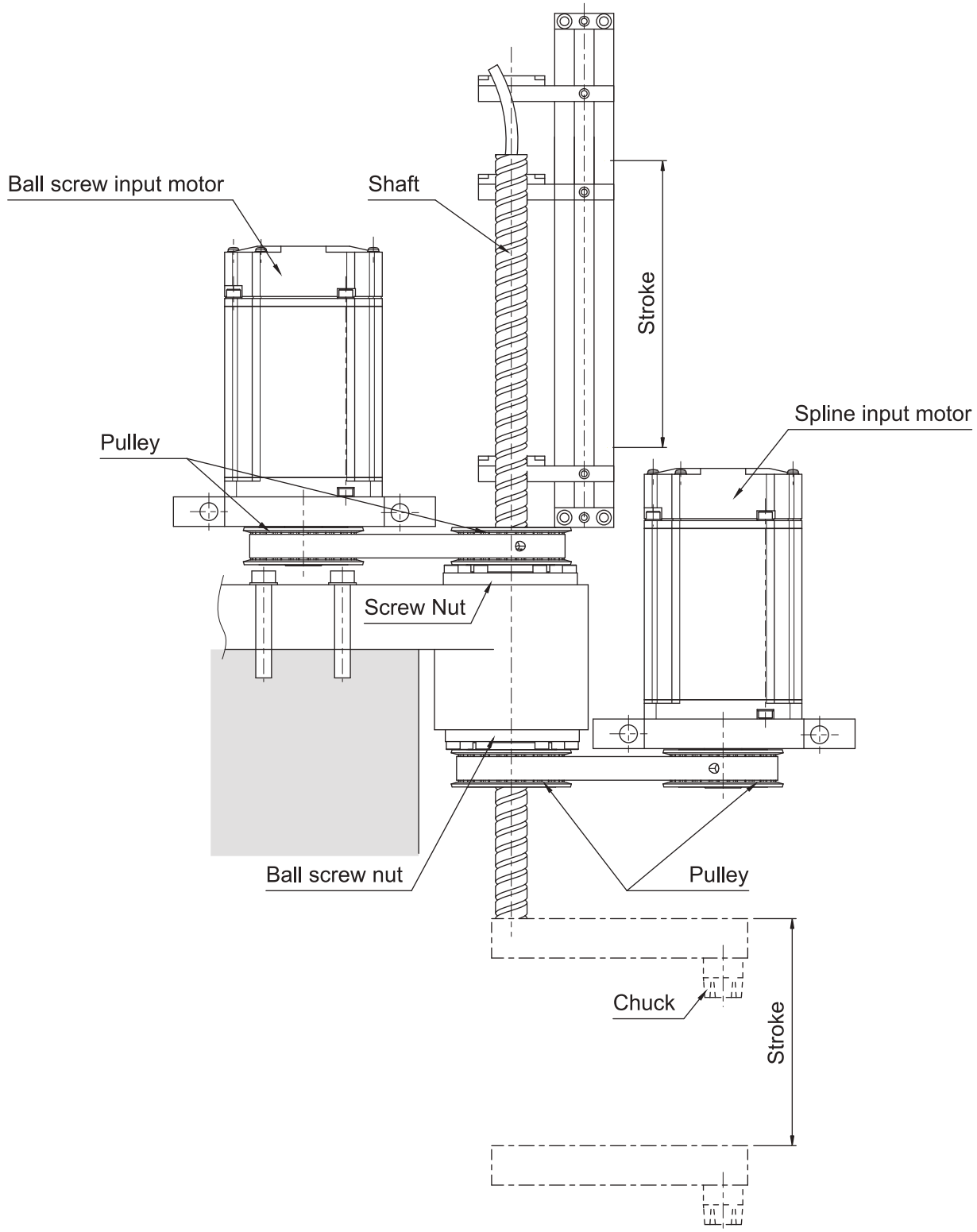


Fig 1.4.1



1-5 Nominal Model Code of Rotary Series

Nominal Model Code of Rotary Ball Screw

	RFSY	R	016	16	A2	N	G	C5	500	P0	(1A)
Nominal Model	RFSY, RFBY										
Threading Direction	R : Right										
Nominal Diameter	Unit : mm										
Lead	Unit : mm										
Number of Turns (Turn · Row)	Turn : A : 1.7										
	ex : (1.7 · 2 = A2)										
Flange Type	N : Round										
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 Grooves	1A : Single start screw 2A : Double start screw										

※No symbol required when no plating is needed.

Nominal Model Code of Rotary Ball Spline

	RLSF	016	T2	N	N	H	500	P0
Nominal Model	RLSF, RLBF							
Nominal Diameter	Unit : mm							
Groove	T2 : 2 Rows T4 : 4 Rows							
Flange Type	N : Round							
Accuracy Grade of Spline Shaft	N : Normal H : High P : Precision							
Spline Shaft Type	S : Solid H : Hollow							
Overall Length of Spline Shaft	Unit : mm							
Preload Value	P0 : No preload P1 : Light preload P2 : Medium preload							

※No symbol required when no plating is needed.

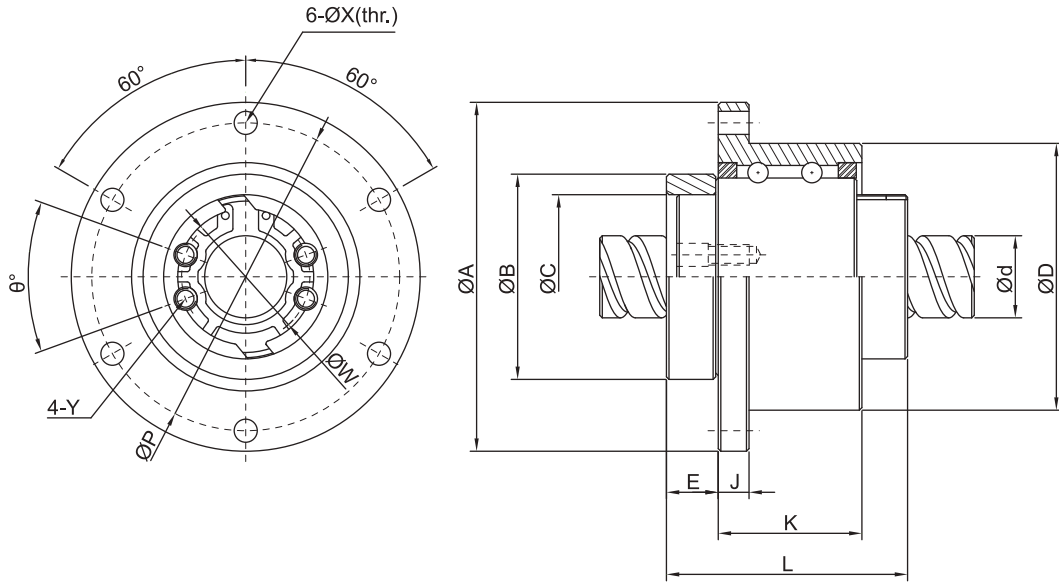


Nominal Model Code of Rotary Ball Screw and Ball Spline

	RSSY	R	016	16	A2	G	C5	H	H	- 500 -	P1	(1A)
Nominal Model	RSSY (RFSY+RLSF) RSLY (RFSY+SLF) RBBY (RFBY+RLBF) RBLY (RFBY+SLF)											
Threading Direction	R : Right											
Nominal Diameter	Unit : mm											
Lead	Unit : mm											
Number of Turns (Turn · Row) Turn : A : 1.7 ex : (1.7 · 2 = A2)												
Product Code	G : Ground											
Accuracy Grade of Ball Screw	C5											
Accuracy Grade of Spline Shaft	H : High											
Spline Shaft Type	S : Solid H : Hollow											
Overall Length of Assembly	Unit : mm											
Preload Value	P1 : Light preload											
Number of Grooves	1A : Single start screw 2A : Double start screw											



RFBY Series Specifications



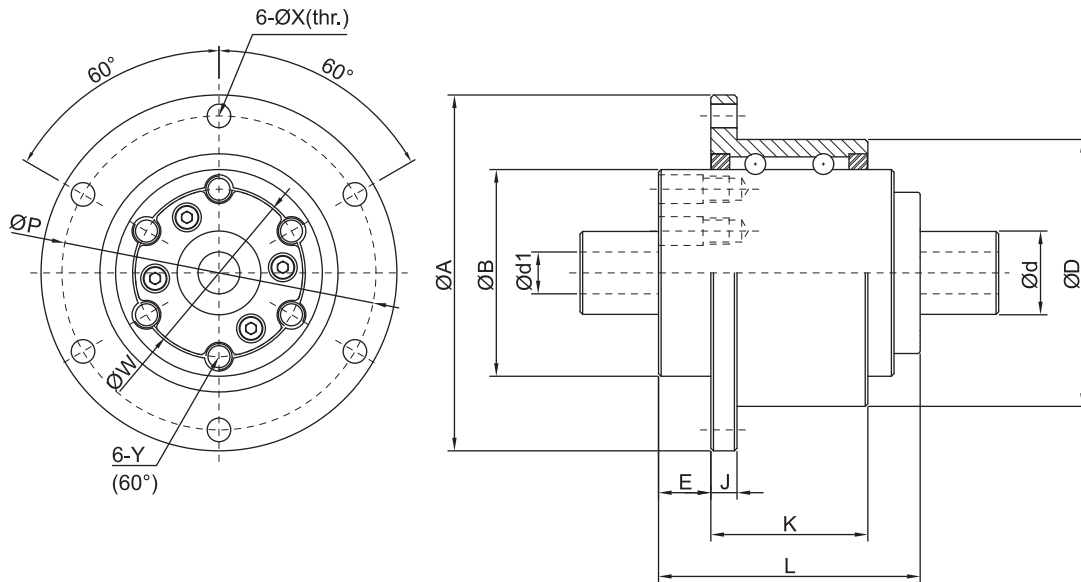
Unit: mm

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	

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RLBF Series Specifications

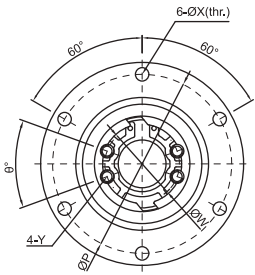


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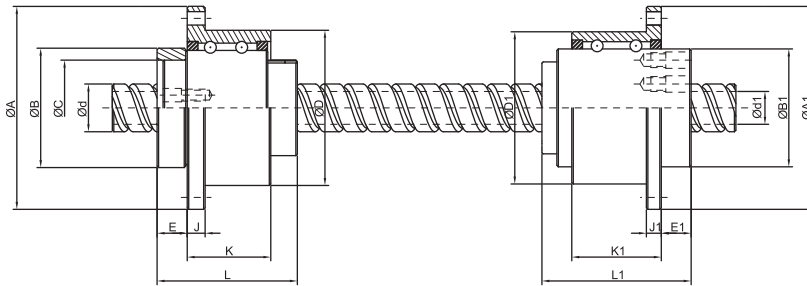
Model No.	d	d1	Row	Support Bearing Load Rating		Spline Nut Dimension												Ball Spline Load Rating	
				Ca (kgf)	Coa (kgf)	D	A	B	L	E	J	K	P	X	W	Y	Ca (kgf)	Coa (kgf)	
RLBF016	16	8	2	746	1597	52 ⁰ _{-0.007}	68	39.5 ⁰ _{-0.025}	50	10	5	30	60	4.5	32	M5	545	849	
RLBF020	20	10	2	1011	2138	56 ⁰ _{-0.007}	72	43.5 ⁰ _{-0.025}	63	12	6	42	64	4.5	36	M5	736	1124	
RLBF025	25	15	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	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	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	4	4317	12585	120 ⁰ _{-0.008}	156	99.5 ⁰ _{-0.035}	125	25	12	87	136	11	85	M10	4086	5615	



RBBY Series Specifications



RFBY



RLBF

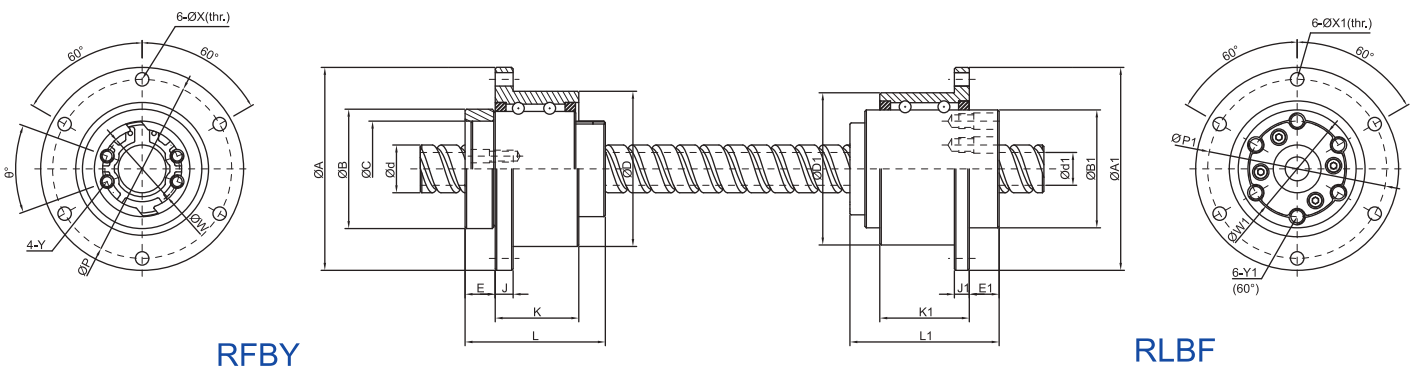
Unit: mm

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	
RBBY01616-3.6	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	
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	
RBBY02020-3.6	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	
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	
RBBY02525-3.6	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	
◆ 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	

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RBBY Series Specifications

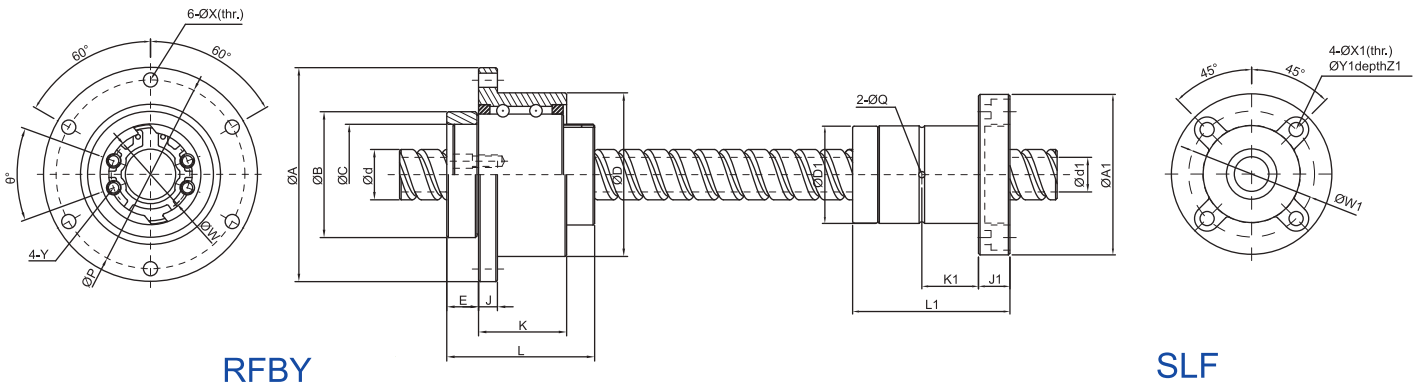


Unit: mm

Model No.	d	d1	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	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	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	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	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	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	4	4317	12585	120 ⁰ _{-0.008}	156	99.5 ⁰ _{-0.035}	125	25	12	87	136	11	85	M10	4086	5615



RBLY Series Specifications



RFBY

SLF

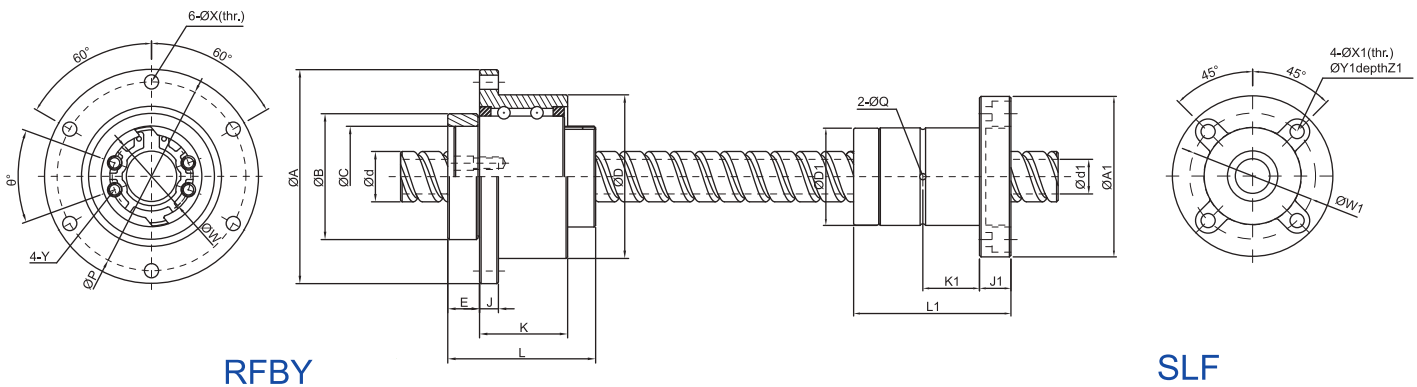
Unit:mm

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	
RBLY01616-3.6	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	
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	
RBLY02020-3.6	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	
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	
RBLY02525-3.6	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	
◆ 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	

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RBLY Series Specifications

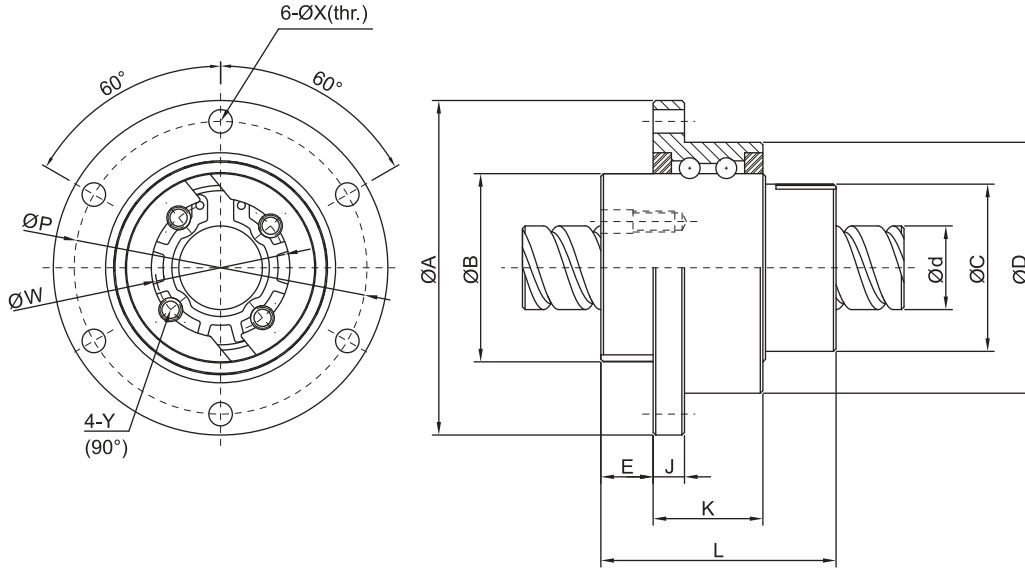


Unit: mm

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



RFSY Series Specifications



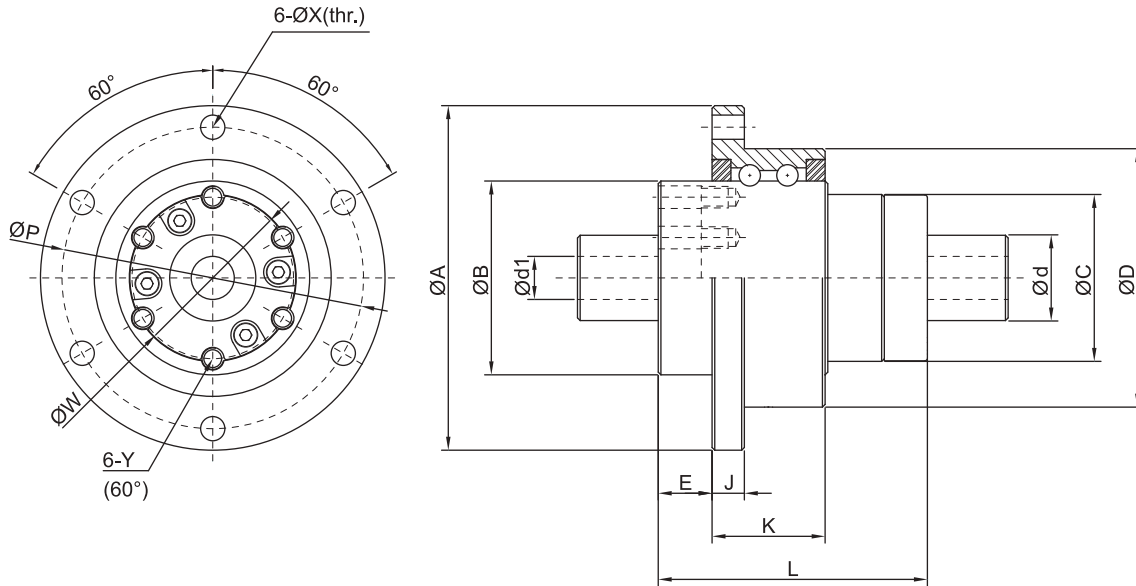
Unit: mm

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

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RLSF Series Specifications

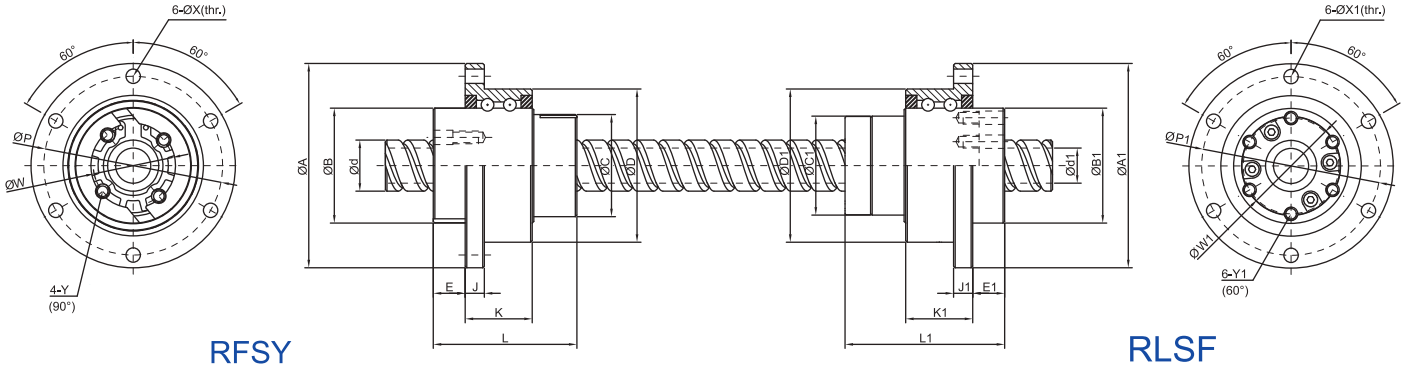


Unit:mm

Model No.	d	d1	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	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	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	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	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	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



RSSY Series Specifications

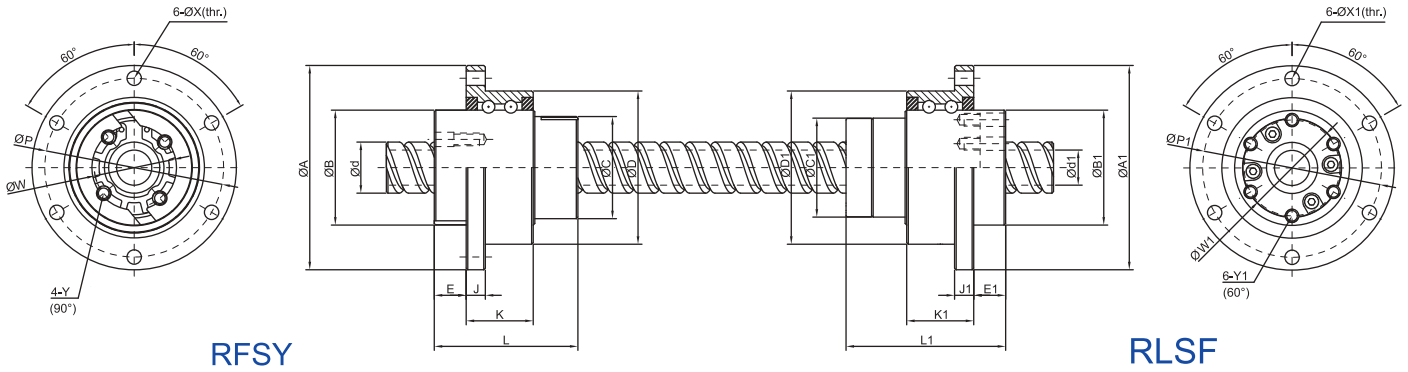


Unit: mm

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
RSSY01616-3.6	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
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
RSSY02020-3.6	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
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
RSSY02525-3.6	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
◆ 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	100	-0.012 -0.034	130	79.5	0 -0.035	99	73	16.5	10	33	113	9	61	M8	2662	7031

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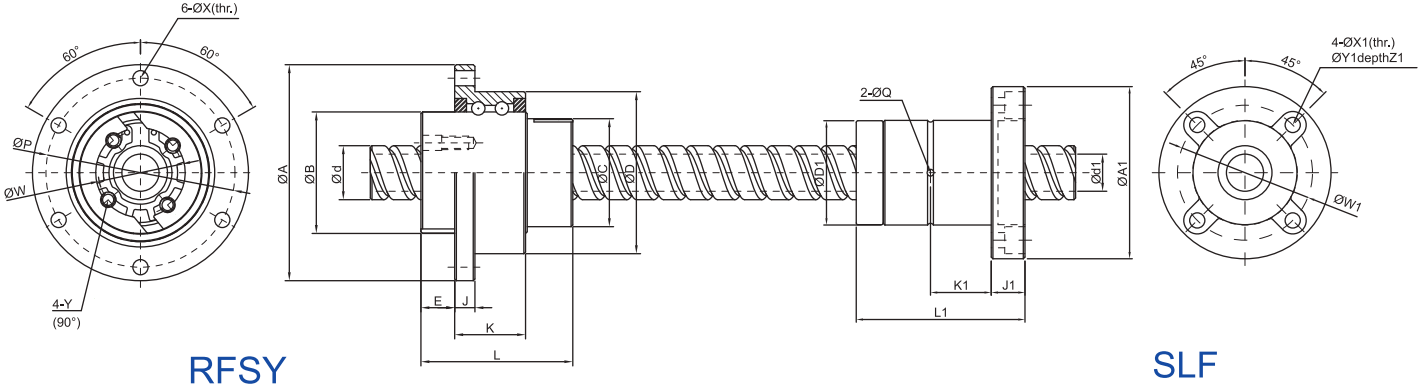


Unit: mm

Model No.	d	d1	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)		
RSSY01616	16	11	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	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	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	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	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



RSLY Series Specifications



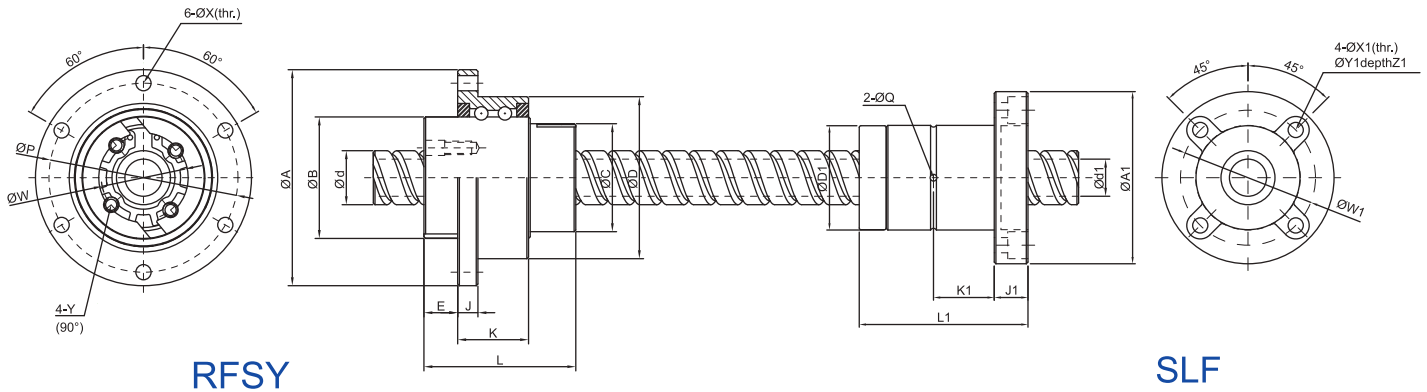
Unit: mm

Model No.	d	I	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
RSLY01616-3.6	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
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
RSLY02020-3.6	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
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
RSLY02525-3.6	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
◆ 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

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RSLY Series Specifications



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

