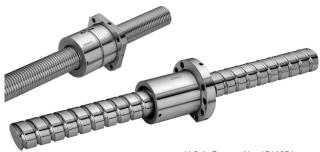
9.5 Super S Series



U.S.A. Patent No. 6561054 Taiwan Patent No. 231845 Taiwan Patent No. 233472 Taiwan Patent No. 245857 Taiwan Patent No. 115652 Japan Patent No. 3117738

• Application:

CNC Machinery, Industrial Machinery, Electronic Machinery, Precision Machine and other High Speed Machinery.

• Features:

- Low noise (5~7dB lower than traditional series)
 The patent design of return unit can absorb noises caused by the impact of the ballnut's balls, greatly reducing the noise intensity.
- 2. Space-saving and weight-lightening design
 The ballnut diamenter is 18%~32% smaller than traditional series.

3. Dm-N value up to 220,000

The patent design of the return unit can improve the strength of the return structure, achieving a Dm-N value of up to 220,000.

4. High acceleration and deceleration velocity

The pathway of specialized return unit, as well as the ballnut's strengthened design diminish the impact experienced by the balls, Hence, it can sustain peak performance in more rigorous operating environments, such as high acceleration and deceleration.

5. Accuracy grade

Precision ground ballscrews available in JIS Grade C0~C7; Rolled ballscrews available in JIS Grade C6~C10.

• Pattern Nomenclature :

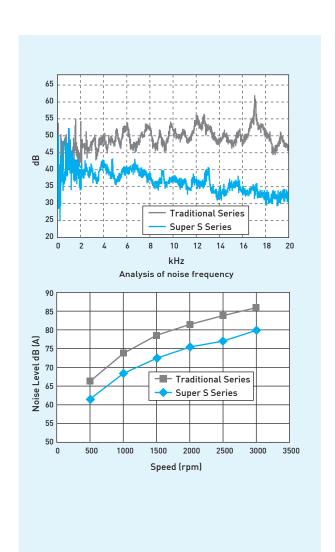


• Performance :

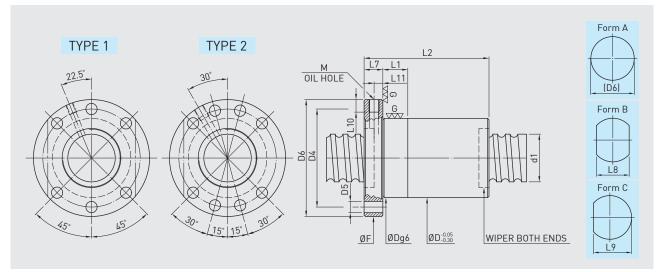
Specification: 2R40 - 40K4 - DFSC - 1200 -1600 - 0.008

Lead: 40 mm

Acceleration: 1g (9.8m/sec²) Dm-N Value: 120,000



FSC TYPE

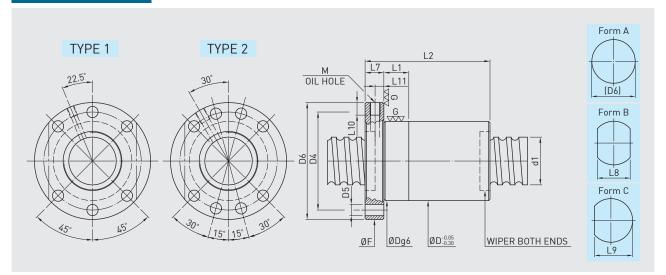


	Size	!			Ball		Rigidity K	Dynamic	Static		Nut				Flan	ge				Oil Hole				
Model	Nominal Dia.	Lead	PCD	RD	Dia.	Circuits	(kgf/µm)	Load C(KN)	Load Co(KN)	D	L1	L2	TYPE	Form A (D6)	Form B (L8)	Form C (L9)	L7	D4	D5	М	L10	L11		
15-10K3	15	10	1	10.007	0.175	3	25 960 15 630	960	1930	27	10	44		57	/0	50		, F		ME 1D	,			
15-20K2	15	20	15.6	12.324	3.1/5	2		630	1250	34	10	50		57	43			45	5.5	M5×1P	6			
20-10K3	20	10	20.4	17.324	2 175	3	32	1130 2660 36	24	10	47		58	44	51		47							
20-20K2	20	20	20.0	17.324	3.1/5	2	21	760	1730	10	56		30	44	10	10	47				5			
25-10K3		10	25.6	22.324	3 175	3	38	1260	3370	40	10	50		62	48	55	10	51				J		
25-25K2	25	25	25.0	22.024	0.170	2	25	840	2170	40	10	69		02	40	33		51						
25-10K4	20	10	25.8	21.744	3 969	4	56	2210	5660	45	10	60		65	51	58	54	6.6						
25-12K4		12	25.0	21.744	5.707	4	56	2200	00 5640	10	67			31	30		54							
28-8K5	28	8	29	24.132		5	79	3690	9780	50	10	62		80	62	71		65						
32-5K4		5	32.6	29.324	3.175	4	57	1840	5960	48	10	38		70	54	62		59						
32-6K5		6				5	83	3090	9480	56	10	48	1	86	65	75.5	12	71			8			
32-8K5		8				5	84	3080	9460		10	59	ı	80	62	71				M6×1P		6		
32-10K5		10	32.8	28.744	3 969	5	85	3080	9450		10	73						,,						
32-20K3		20	02.0	2017 11	0.707	3	52	1900	5430	50	20	87						65						
32-32K2		32				2	34	1280	3530		20	87												
32-40K2	32	40				2	32	1240	3440		20	94												
32-10K5		10	33	28.132	4.763	5	86	3850	10890 10870 56	56	10	79		86	65	75.5		71						
32-12K5		12				5	87	3840		20	88													
32-10K5		10				5	90	5640 14480		10	77													
32-12K5		12	33.4	26.91	6.35	5	90	5620	14450 62	62	20	87		92	74	83		77						
32-16K4		16				4	73	4570	11390	1390	20	92												
32-20K3		20				3	54	3480	8340		20	87												
36-10K5		10				5	98	6010	16440		20	80												
36-12K5		12				5	99	5990	16420		20	87							9					
36-16K5	36	16	37.4	30.91	6.35	5	100	5960	16350	66	20	109		96	73	84.5		81						
36-20K4		20				4	79	4840	12880			108												
36-36K2		36				2	39	2540	6240		20	95					14					7		
38-8K5		8	39	34.132	4.763	5	96	4190	13110	61	20	64		91	68	79.5		76						
38-10K4		10				4	81	5050	13790		20	70												
38-15K4		15				4	83	5020	13740		20	88	2							M8×1P	10			
38-16K5	38	16	39.4	32.91	6.35	5	104	6140	17340			108												
38-20K4		20				4	83	4990	13660			108												
38-25K4		25				4	83	4940	13560	13560 63 6560		127		93	70	81.5		78						
38-40K2		40				2	40	2590				103												
40-5K5		5		37.324		5	85	2470	9490		20	45												
40-6K5	40	6	40.8	36.744		5	95	3370	11780		20	52												
40-8K5		8	41	36.132	4.763	5	101	4360	14200		20	64												

Note: 1. Rigidity without preload: The axial load is calculated by 30% of dynamic load.

^{2.} Circuits less than K5 also available.

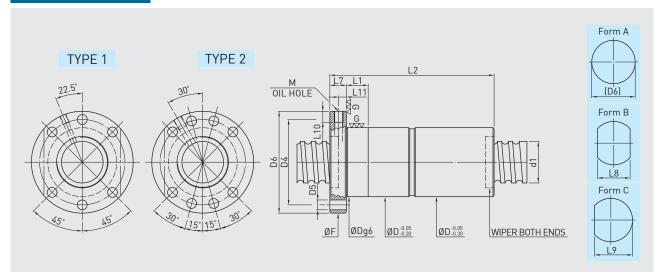
FSC TYPE



	Size	9			Ball		Rigidity K	Dynamic	Static		Nut				Flan	ge				Oil Hole				
Model	Nominal Dia.	Lead	PCD	RD	Dia.	Circuits	(kgf/µm)	Load C(KN)	Load Co(KN)	D	L1	L2	TYPE	Form A (D6)	Form B (L8)	Form C (L9)	L7	D4	D5	М	L10	L11		
40-10K5		10				5	106	6340 18400 6330 18380 6300 18320		20 83	83													
40-12K5		12				5	108			20	86													
40-16K5		16	(1.1		6.35	5	109		F 0	20			100				٥٦							
40-20K4	40	20	41.4	34.91		4	87	5130	130 14440 70	/U	20	110		100	75	87.5	14	85	9			7		
40-25K4		25				4	86	5080 14350		25	127													
40-40K2		40				2	42	2660	6940		25	101												
40-12K5		12	41.6	34.299	7.144	5	110	7430	20790		20	90												
45-10K5		10				5	118	6810	21320		20	78				16	16					8		
45-12K5		12				5	119	6800	21290	21290	20	89												
45-16K5		16	46.4	20.01	/ 25	5	121	6780 21240	75	20	108		110	0.5	07.5		02							
45-20K4	45	20	40.4	39.91	6.35	4	98	5520	16760	/5	25	108		110	85	97.5		93						
45-25K4		25				4	98	5480	16670		25	129												
45-40K3		40				3	71	4100	12020		25	145												
45-16K5		16	46.6	39.299	7.144	5	120	7810	23230		20	119												
50-5K5		5	50.6	47.324	3.175	5	95	2700	11940	70	20	45		100	75	87.5		85						
50-10K5		10				5	125	7050	23300		25	80												
50-12K5		12				5	127	7040	23280		25	90							11	M8×1P	10			
50-15K5		15				5	129	7030	23250		25	104	2				18		11			9		
50-16K5		16			6.35	5	129	7020 23230		25	109	2							MOXIF	10				
50-20K4		20	51.4	44.91		4	104	5720	18260 18170	02	25	106		118	92	105		100						
50-25K4	50	25				4	104	5690		02	25	129			72	103		100						
50-30K4		30				4	104	5650			25	147												
50-35K3		35				3	80	4430			25	133												
50-40K3		40				3	79	4390	13750		25	145												
50-30K2		30	51.6	44.299	7.144	2	53	3560	9960		25	92												
50-16K5		16	51.8	43.688	7.938	5	132	9450	28710	85	25	112		121	95	108		104						
50-20K4		20	52.2	42.466	9.525	4	113	10670	31310	86	25	120		121	/3	100		104						
63-10K5		10				5	144	7720	29190		25	84												
63-12K5		12	61.1.	57.91	4 25	5	147	7720	29180	95	25	94		135	100	117.5		115						
63-20K5		20	04.4	37.71	0.55	5	157	7850	30020	75	25	132		133	100	117.5		113						
63-40K2	63	40				2	62	3310	11100		25	110					20					10		
63-12K5		12	64.8	56.688	7.938	5	152	10520	36440	98	25	94		138	103	120.5	20	118	13.5			10		
63-16K4		16	45.2	55.466	0 525	4	132	11810	39320	107	25	100		1/.7	112	129.5		127						
63-20K5		20	03.2	33.400	7.323	5	168	14410	49590 107	25	146		147	112	127.0		127							
80-10K5	80	10	81.4	74.91	6.35	5	166	8620	37980	110	25	80		150	115	132.5		130						
80-20K5	00	20	82.2	72.466	9.525	5	205	16170	64500	145	25	142		185	150	167.5	25	165				12.5		

Note: 1. Rigidity without preload: The axial load is calculated by 30% of dynamic load. 2. Circuits less than K5 also available.

FDC TYPE

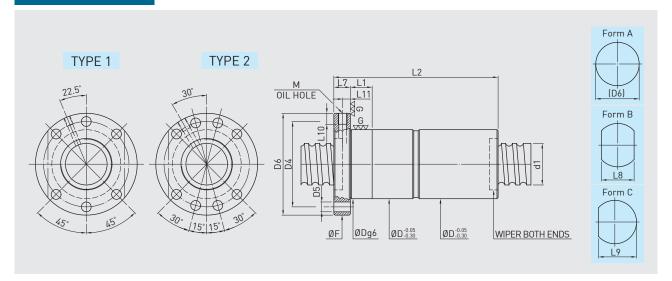


	Size				Ball		Rigidity K	Dynamic	Static		Nut				Flar	nge				Oil Hole			
Model	Nominal Dia.	Lead	PCD	RD	Dia.	Circuits	(kgf/µm)	Load C(KN)	Load Co(KN)	D	L1	L2	TYPE	Form A (D6)	Form B (L8)	Form C (L9)	L7	D4	D5	М	L10	L11	
15-10K3	15	10	15 /	10.007	0.175	3	33	960	1930	27	10	92		F77	/0	F0.		/ -	5.5	ME 1D	,		
15-20K2	15	20	15.6	12.324	3.1/5	2	20	630	1250	34	10	104		57	43	50		45	5.5	M5×1P	6		
20-10K3	20	10	20.4	17 22/	2 175	3	42	1130	2660 36	10	98		58	44	51		47						
20-20K2	20	20	20.0	17.324	3.173	2	27	760	1730	10	116		30	44	31	10	47				5		
25-10K3		10	25.6	22.324	3 175	3	50	1260	3370 40	/ ₁ ∩	10	104		62	48	55	10	51				J	
25-25K2	25	25	25.0	22.024	0.170	2	32	840	2170	40	10	142		02	40	33		51					
25-10K4	20	10	25.8	21.744	3 969	4	74	2210	5660	45	10	124		65	51	58		54	6.6				
25-12K4		12	25.0	21.744	0.707	4	74	2200	5640	10	138		03	31	30		54						
28-8K5	28	8	29	24.132	4.763	5	104	3690	9780	50	10	128		80	62	71		65					
32-5K4		5	32.6	29.324	3.175	4	77	1840	5960	48	10	80		70	54	62		59					
32-6K5		6				5	111	3090	9480	56	10	100	1	86	65	75.5		71					
32-8K5		8				5	112	3080	9460 9450		10	122	ľ		62	12				M6×1P	8	6	
32-10K5		10	32.8	28.744	3 969	5	113	3080			10	150		80		71	12	65		1-1011		Ū	
32-20K3		20	32.0	20.744	0.707	3	68	1900	5430	50	20	178											
32-32K2		32				2	44	1280	3530		20	178											
32-40K2	32	40				2	42	1240	3440		20	192											
32-10K5		10	33	28.132	4 763	5	113	3850	10890 56	56	10	162		86	65	75.5		71					
32-12K5		12	00	20.102	4.700	5	114	3840	10870		20	180		00	00			, ' '					
32-10K5		10				5	119	5640	11390		10	158											
32-12K5		12	33 4	26.91	6.35	5	119	5620		62	20	178		92	74	83		77					
32-16K4		16	00.4	20.71	0.00	4	96	4570		02	20	188				00		,,					
32-20K3		20				3	71	3480	8340		20	178											
36-10K5		10				5	130	6010	16440		20	164											
36-12K5		12				5	131	5990	16420		20	178							9				
36-16K5	36	16	37.4	30.91	6.35	5	132	5960	16350	66	20	222		96	73	84.5		81					
36-20K4		20				4	105	4840	12880			220											
36-36K2		36				2	51	2540	6240		20	194					14					7	
38-8K5		8	39	34.132	4.763	5	127	4190	13110	61	20	132		91	68	79.5		76					
38-10K4		10				4	107	5050	13790			144											
38-15K4		15				4	109	5020	13740			180	2							M8×1P	10		
38-16K5	38	16	39.4	32.91	6.35	5	137	6140	17340			220											
38-20K4		20	J	,,,,,	2.00	4	110	4990	13660			220											
38-25K4		25				4	109	4940	13560	63		258		93	70	81.5		78					
38-40K2		40				2	53	2590	6560	6560		210											
40-5K5		5		37.324		5	114	2470	9490		20	95											
40-6K5	40	6	40.8	36.744		5	127	3370	11780			109											
40-8K5		8	41	36.132	4.763	5	135	4360	14200		20	133											

Note: 1. Rigidity with proload: The axial load is calculated by 10% of dynamic load. 2. Circuits less than K5 also available.



FDC TYPE



	Size		Size		Ball		Rigidity K	Dynamic	Static		Nut				Flar	nge				Oil	Hole	
Model	Nominal Dia.	Lead	PCD	RD	Dia.	Circuits	(kgf/µm)	Load C(KN)	Load Co(KN)	D	L1	L2	TYPE	Form A (D6)	Form B (L8)	Form C (L9)	L7	D4	D5	М	L10	L11
40-10K5		10				5	141	6340	18400		20	171										
40-12K5		12				5	142	6330	18380		20	177				0.7.5						
40-16K5		16		0 / 01		5	143	6300	18320	5 0	20	221		400	85			0.5				
40-20K4	40	20	41.4	34.91	6.35	4	115	5130 14440	70	20	225	25	100	75	87.5	14	85	9			7	
40-25K4		25				4	114	5080	14350		25	259										
40-40K2		40				2	56	2660	6940		25	207										
40-12K5		12	41.6	34.299	7.144	5	146	7430	20790		20	185										
45-10K5		10				5	156	6810	21320		20	161					16					8
45-12K5		12				5	158	6800	21290		20	183		110								
45-16K5		16	141	39.91	6.35	5	160	6780	21240	75	20	221			0E	075		93				
45-20K4	45	20	46.4	37.71	0.33	4	129	5520	16760	/5	25	221			85	97.5		93				
45-25K4		25				4	129	5480	16670		25	263										
45-40K3		40				3	93	4100	12020		25	295										
45-16K5		16	46.6	39.299	7.144	5	159	7810	23230		20	243										
50-5K5		5	50.6	47.324	3.175	5	129	2700	11940 70 23300	20	95		100	75	87.5		85					
50-10K5		10				5	166	7050			25	166										
50-12K5		12				5	169	7040	23280		25	186							11			
50-15K5		15				5	171	7030	23250		25	214	2				18		- 11	M8×1P	10	9
50-16K5		16				5	171	7020	23230		25	224	2	118						140711	10	
50-20K4		20	51.4	44.91	6.35	4	138	5720	18340	82	25	218			92	105		100				
50-25K4	50	25				4	134	5690 18260	82	25	263		110	12	103		100					
50-30K4		30				4	136	5650	5650 18170 4430 13840		25	299										
50-35K3		35				3	105	4430		25	271											
50-40K3		40				3	104	4390	13750		25	295										
50-30K2		30	51.6	44.299	7.144	2	70	3560	9960		25	190										
50-16K5		16	51.8	43.688	7.938	5	175	9450	28710	85	25	229		121	95	108		104				
50-20K4		20	52.2	42.466	9.525	4	149	10670	31310	86	25	245		121	75	100		104				
63-10K5		10				5	192	7720	29190		25	174										
63-12K5		12	61.1.	57.91	6.35	5	196	7720	29180	95	25	194		135	100	117.5		115				
63-20K5		20	04.4	37.71	0.55	5	208	7850	30020	/5	25	270		155	100	117.5		113				
63-40K2	63	40				2	82	3310	11100		25	226					20					10
63-12K5		12	64.8	56.688	7.938	5	202	10520	36440	98	25	194		138	103	120.5	20	118	13.5			10
63-16K4		16	45.2	55 /.44	9 525	4	175	11810	39320	107	25	206		147	112	129.5		127				
63-20K5		20	00.2	55.400	9.525	5	222	14410	49590	49590	25	298		147	112	127.3		127				
80-10K5	80	10	81.4	74.91	6.35	5	223	8620	37980	110	25	166		150	115	132.5		130				
80-20K5	- 00	20	82.2	72.466	9.525	5	272	16170	64500	145	25	289		185	150	167.5	25	165				12.5

Note: 1. Rigidity with proload: The axial load is calculated by 10% of dynamic load. 2. Circuits less than K5 also available.