

LINEAR MOTION GUIDE



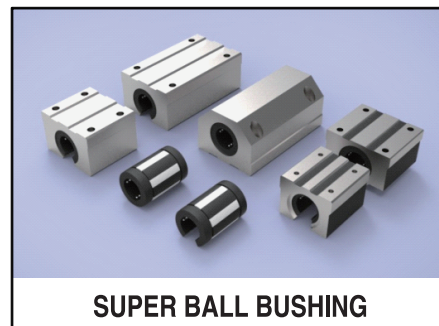
CROSSED ROLLER BEARING



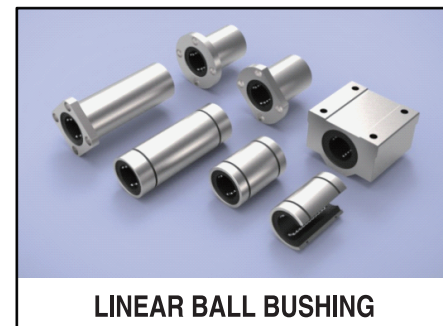
BALL SPLINE



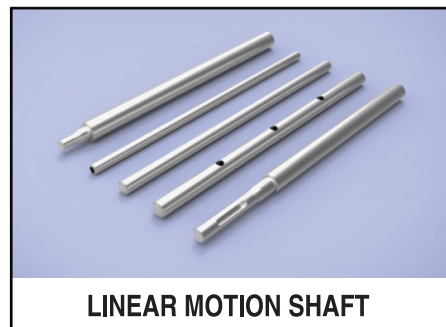
CROSS ROLLER GUIDE WAY



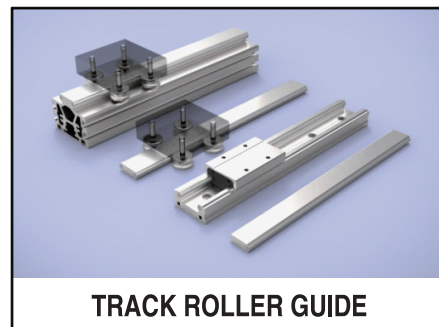
SUPER BALL BUSHING



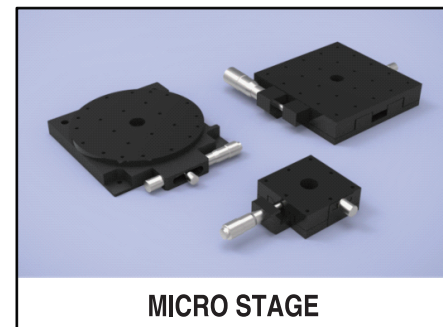
LINEAR BALL BUSHING



LINEAR MOTION SHAFT



TRACK ROLLER GUIDE

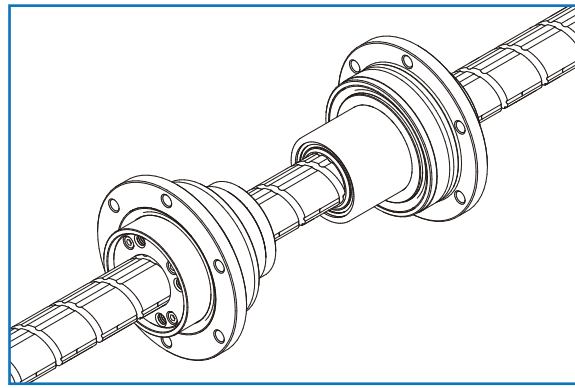


MICRO STAGE

BALL SCREW SPLINE LINEAR MOTION SYSTEM



made in Korea



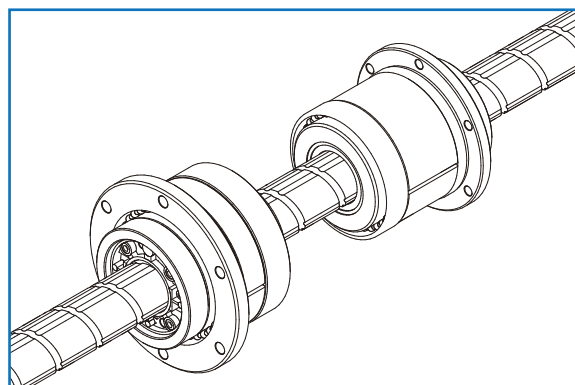
Ball Screw Spline WBSC series

Ball Screw

Model No.	Screw shaft outer diameter	Screw shaft inner diameter	Lead	Ball Screw dimensions							
				Basic load rating		Ball center-to-center diameter	Outer diameter	Flange diameter	overall length	D ₃	D ₄
				Ca	Coa						
WBSC 1616	16	11	16	5.2	10.1	16.75	48	64	40.5	36	32
WBSC 2020	20	14	20	6.5	13.6	20.5	56	72	48.5	43.5	39
WBSC 2525	25	18	25	7.1	17	25.5	66	86	57.3	52	47

Ball Spline

Model No.	Ball Spline dimensions									
	Basic load rating		Static permissible moment	Basic torque rating		Outer diameter	Flange diameter	overall length	D ₆	BE ₁
	C	C ₀		M _A	C _T					
WBSC 1616	6.12	11.2	46	60	110	48	64	50	36	31
WBSC 2020	8.9	16.3	110	105	194	56	72	63	43.5	35
WBSC 2525	12.8	23.4	171	189	346	66	86	71	52	42



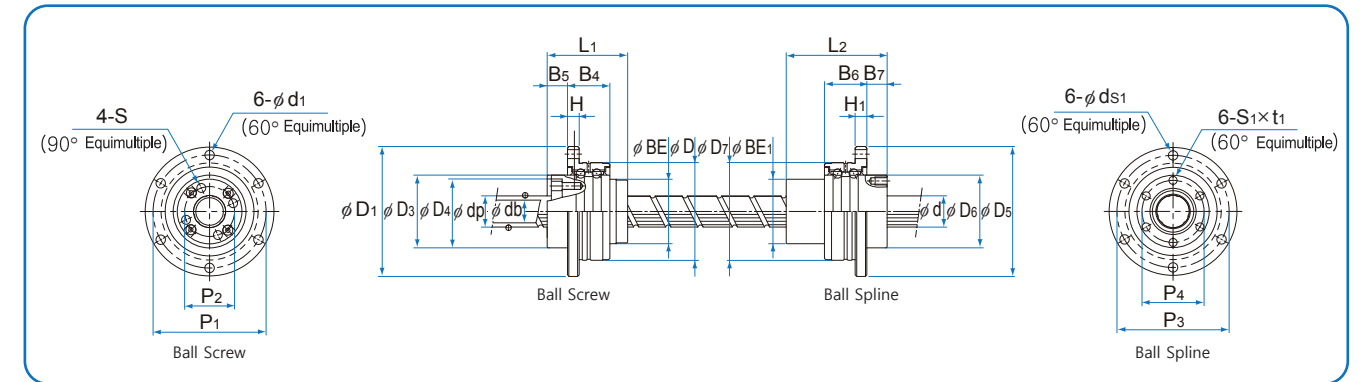
Ball Screw Spline WBSN series

Ball Screw

Model No.	Screw shaft outer diameter	Screw shaft inner diameter	Lead	Ball Screw dimensions							
				Basic load rating		Ball center-to-center diameter	Outer diameter	Flange diameter	overall length	D ₃	
				Ca	Coa						dp
WBSN 1616	16	11	16	5.2	10.1	16.75	52 ⁰ _{-0.007}	68	37.8	32	
WBSN 2020	20	14	20	6.5	13.6	20.5	62 ⁰ _{-0.007}	78	48	49.5	
WBSN 2525	25	18	25	7.1	17	25.5	72 ⁰ _{-0.007}	92	56.75	57.5	

Ball Spline

Model No.	Ball Spline dimensions									
	Basic load rating		Static permissible moment	Basic torque rating		Outer diameter	Flange diameter	overall length	D ₆	BE ₁
	Ca	C ₀		M _A	C _T					
WBSN 1616	6.12	11.2	67.6	60	110	52 ⁰ _{-0.007}	68	50		
WBSN 2020	8.9	16.3	118	105	194	56 ⁰ _{-0.007}	72	63		
WBSN 2525	12.8	23.4	210	189	346	62 ⁰ _{-0.007}	78	71		

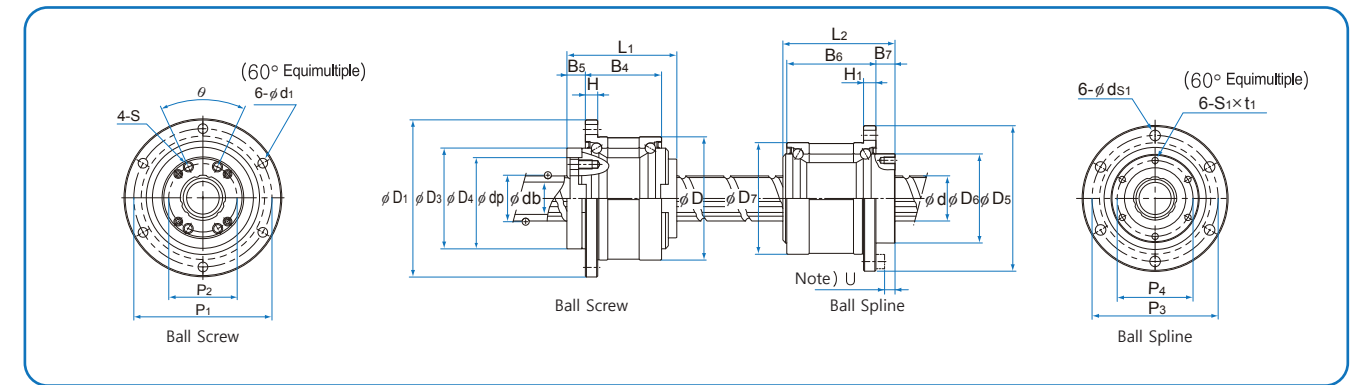


Unit : mm

Ball screw dimensions								Support bearing basic load rating	Nut inertial moment	Screw shaft inetail moment / mm	Nut mass	Shaft mass	
BE	H	B ₄	B ₅	P ₁	P ₂	S	d ₁						Ca
32	6	21	10	56	25	M4	4.5	7.8	6.3	0.35	3.92 X 10 ⁻⁴	0.31	0.8
39	6	21	13	64	31	M5	4.5	10.5	9.6	0.85	9.37 X 10 ⁻⁴	0.54	1.21
47	7	25	13	75	38	M6	5.5	13.7	13.2	2.12	2.2 X 10 ⁻³	0.88	1.79

Unit : mm

Ball spline dimensions							Support bearing basic load rating	Nut inertial moment	Nut mass	
H ₁	B ₆	B ₇	P ₃	P ₄	S ₁ X t ₁	ds ₁				C
6	21	10	56	30	M4 X 6	4.5	7.8	6.3	0.44	0.35
6	21	12	64	36	M5 X 8	4.5	10.5	9.6	0.99	0.51
7	25	13	75	44	M5 X 8	5.5	13.7	13.2	2.2	0.79



Unit : mm

Ball screw dimensions									Support bearing basic load rating	Nut inertial moment	Screw shaft inetail moment / mm	Nut mass	Shaft mass	
D ₄	H	B ₄	B ₅	P ₁	P ₂	S	d ₁	θ°						Ca
32	5	27	8	60	25	M4	4.5	40	19.4	19.2	0.48	3.92 X 10 ⁻⁴	0.38	0.8
39	6	33	10	70	31	M5	4.5	40	26.8	29.3	1.44	9.37 X 10 ⁻⁴	0.68	1.21
47	8	43.1	10	81	38	M6	5.5	40	28.2	33.3	3.23	2.2 X 10 ⁻³	1.1	1.79

Unit : mm

Ball spline dimensions										Support bearing basic load rating	Nut inertial moment	Nut mass
D ₆	H ₁	B ₆	B ₇	P ₃	P ₄	S ₁ X t ₁	ds ₁	U	C			
39.5	5	37	10	60	32	M5 X 8	4.5	5	12.7	11.8	0.52	0.51
43.5	6	48	12	64	36	M5 X 8	4.5	7	16.2	15.5	0.87	0.7
53	6	55	13	70	45	M6 X 8	4.5	8	17.6	18	1.72	0.93