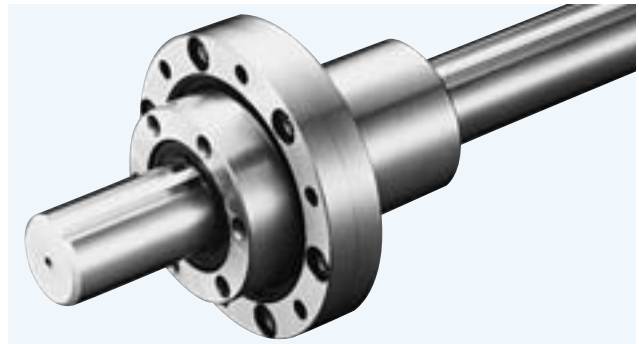
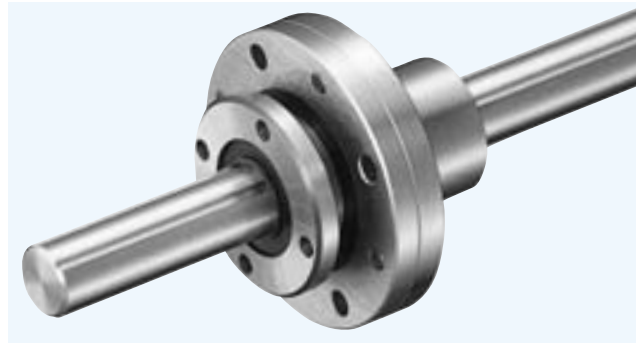
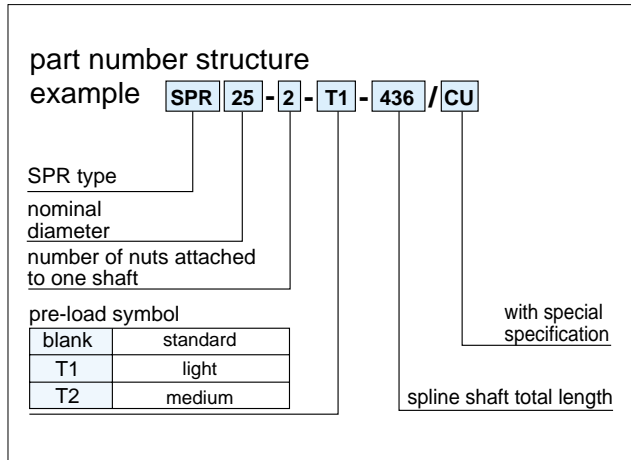


SPR TYPE



part number	ball spline major dimensions								major dimensions of support bearing								
	D ₁		D ₂		L		P ₁	S	h	l	H	D ₃		P ₂	d	G	θ°
	mm	μm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SPR 6	20		13	25		16	M2	2.5	5	6.5	30	0/-21	24	2.4	φ2	20°	
SPR 8	22	0	15	25		18	M2.5	3	6	6.5	33	0	27	2.9			
SPR10	27	-21	19	33	0	22	M3	4	8	7	40		-25	33			3.4
SPR13	29		24	36	-0.2	24	M3	5	8	9	50	0	42	3.4	φ3	15°	
SPR16	36		31	50		30	M4	6	10	11	60		-30	50			4.5
SPR20	40	0	34	60		34	M4	7	12	13	66		0	56			4.5
SPR25	50	-25	40	70		42	M5	8	13	16	78	-35	68	4.5	M6 × 0.75	15°	
SPR30	61	0	47	80		52	M6	10	17	17	100	0	86	6.6			
SPR40	76	-30	62	100	0	64	M6	10	23	20	120	-35	104	9			
SPR50	88	0	75	112	-0.3	77	M8	13	24	22	130	0	114	9			
SPR60	102	-35	90	127		90	M8	13	25	25	150	-40	132	9			

ROTARY BALL SPLINE

SLIDE GUIDE

BALL SPLINE
ROTARY BALL SPLINE

TOPBALL® PRODUCTS

SLIDE BUSH

SLIDE UNIT

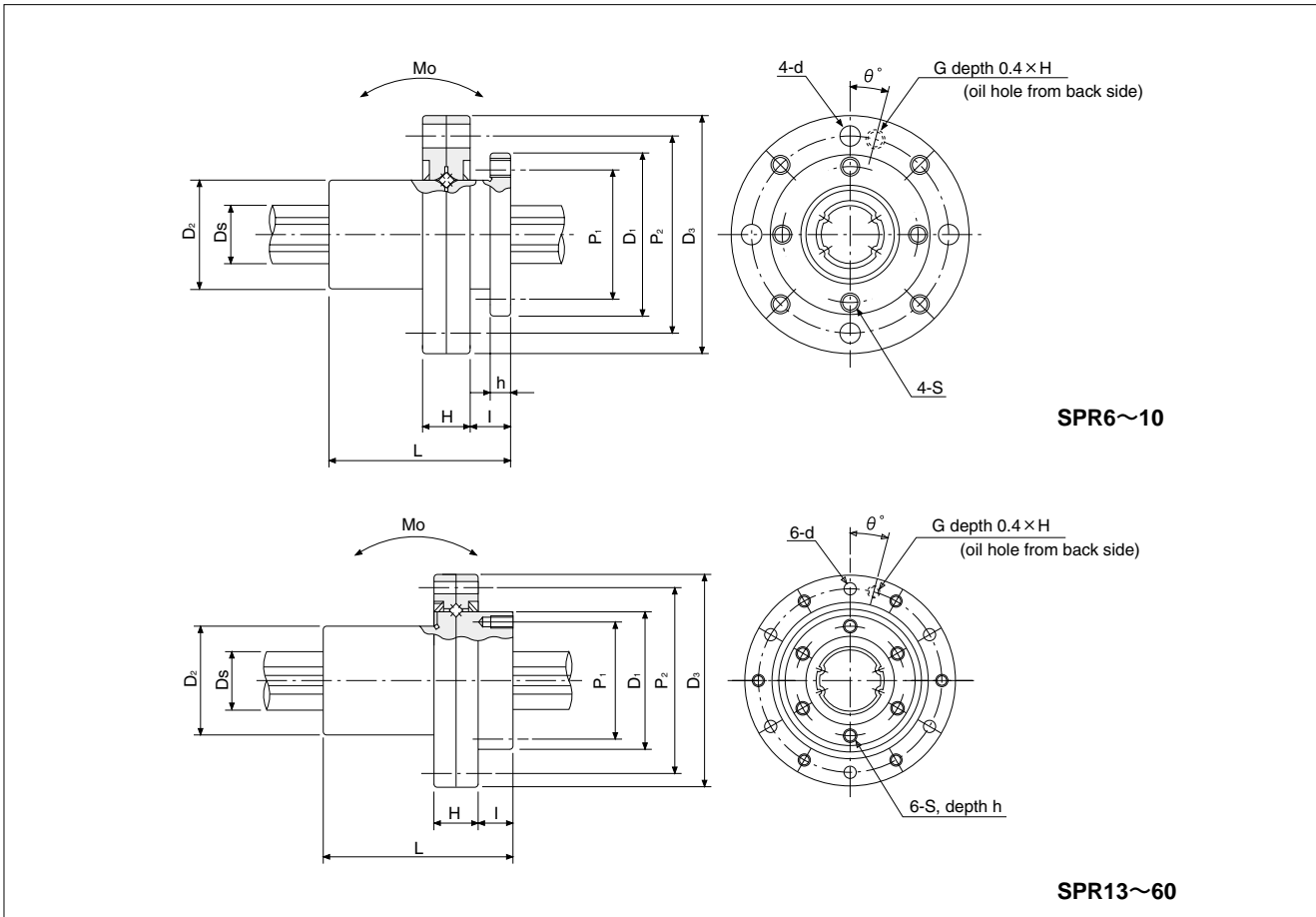
STROKE BUSH
SLIDE ROTARY BUSH

SLIDE SHAFT

SLIDE WAY
SLIDE TABLE
GONIO WAY

ACTUATOR

SLIDE SCREW



SPR6~10

SPR13~60

spline shaft		ball spline				support bearing		allowable static moment Mo	second cross-sectional moment of inertia	cross-sectional coefficient	mass		※maximum rotational speed	part number
Ds mm	tolerance μm	basic torque rating		basic load rating		basic load rating					nut	spline shaft		
		C _T N·m	C _{OT} N·m	C kN	C _O kN	C _R kN	C _{OR} kN							
6	0/-12	1.5	2.4	1.22	2.28	0.6	0.5	5.1	59	19.7	0.04	0.21	3,500	SPR 6
8	0	2.1	3.7	1.45	2.87	1.2	1.14	7.4	190	47.6	0.05	0.38	3,500	SPR 8
10	-15	4.4	8.2	2.73	5.07	2.4	2.45	18.0	461	92.2	0.09	0.60	3,000	SPR10
13	0	21	39.2	2.67	4.89	3.0	3.70	13.7	1,380	213	0.17	1.0	1,800	SPR13
16	-18	60	110	6.12	11.2	5.6	6.70	46	2,980	373	0.33	1.5	1,500	SPR16
18.2	0 -21	83	133	7.84	11.3	5.90	7.35	63	5,050	554	0.45	2.0	1,200	SPR20
23		162	239	12.3	16.1	9.11	11.5	104	12,700	1,110	0.75	3.1	1,000	SPR25
28		289	412	18.6	23.2	13.2	18.0	181	27,500	1,960	1.25	4.8	800	SPR30
37.4	0	637	882	30.8	37.5	22.8	32.3	358	87,300	4,670	2.30	8.6	800	SPR40
47	-25	1,390	3,180	46.1	74.2	27.2	42.1	696	216,000	9,210	3.10	13.1	570	SPR50
56.5	0/-30	2,100	4,800	58.0	127.4	30.0	48.2	1,300	451,000	16,000	4.70	19	500	SPR60

※Maximum rotational speed for grease lubrication.

1kN ≒ 102kgf 1N·m ≒ 0.102kgf·m

Contact NB for further information when higher speeds or oil lubrication is required.