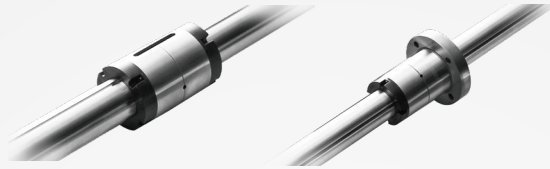


Ball Spline

SL

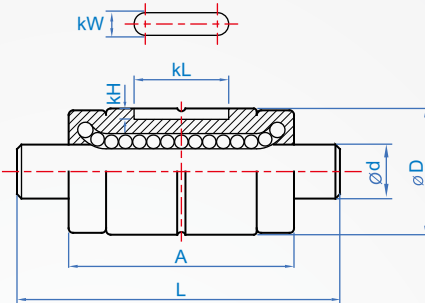
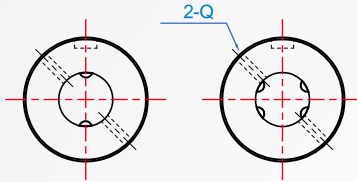
Minor torque model



	Material	Hardness
Shaft	SUJ2	58HRC~
Bushing	SCM415	

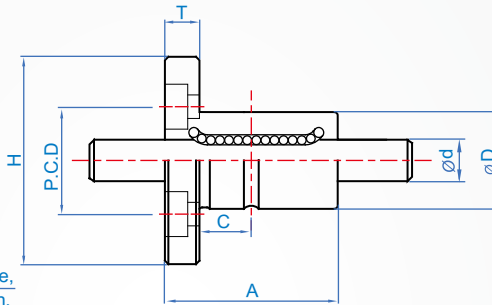
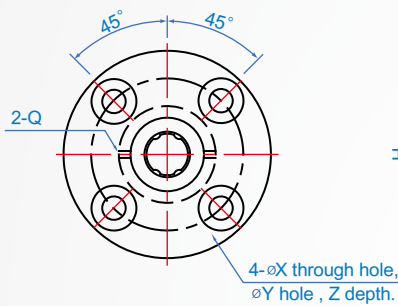
T : Straight

Rows of balls (two) : d6~20
Rows of balls (four) : d25~50

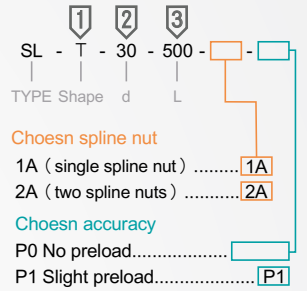


F : Flange

Rows of balls (two) : d6~20
Rows of balls (four) : d25~50



How to order

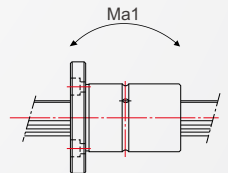


Nominal Diameter	Ball spline clearance unit : μm	
	P0 No Preload	P1 Slight Preload
6 ~ 13	-2 ~ +1	-6 ~ -2
15 ~ 20	-2 ~ +1	-6 ~ -2
25 ~ 30	-3 ~ +2	-10 ~ -4
40 ~ 50	-4 ~ +2	-16 ~ -8

Appearance	Ball column	Shaft diameter d (h7)	Shaft length L	T : Straight column type							F : Flange type				
				D(h6)	A	Keyway size			H	T	C	P.C.D	Mounting holes		
						kW	kH	kL					X	Y	Z
T 直柱型	2	6	60~300	14	25	2.5	1.2	10.5	30	6	7.5	22	3.4	6.5	4.5
		8	60~400	16	27	2.5	1.2	10.5	32	8	7.5	24	3.4	6.5	4.5
		10	60~400	21	33	3	1.5	13	42	9	10.5	32	4.5	8	4
		13	100~500	24	36	3	1.5	15	44	9	11	33	4.5	8	4.5
		16	100~500	31	50	3.5	2	17.5	51	10	18	40	5.5	9.5	6
F 法蘭型	4	20	150~1000	35	56	4	2.5	29	58	13	26.5	45	5.5	9.5	5.4
		25	150~1000	42	71	4	2.5	36	65	13	30	52	6.6	11	8
		30	150~1000	47	80	4	2.5	42	75	13	30	60	6.6	11	8
		40	200~1000	64	100	6	3.5	52	100	18	36	82	9	14	12
		50	200~1000	80	125	8	4	58	124	20	46.5	102	11	17.5	12

Q	d	Mass (g)			Basic load rating (kN)		Basic torque rating (N·M)		Static permissible moment (N·M)	
		Straight	Flange	Spline shaft (kg/m)	C	Co	Ct	Cot	Ma1	Ma2
1	6	14	36.7	0.22	1.3	2.2	0.5	0.8	0.4	3.5
	8	16	47	0.39	1.3	2.2	0.6	1.0	0.4	3.8
1.5	10	37	100	0.6	2.8	3.9	1.6	2.3	1.0	8.5
	13	52	117	1.03	3.9	5.3	2.9	3.9	1.5	12.5
2	16	130	226	1.56	5.3	8.3	4.8	7.4	3.7	26.1
	20	188	303	2.44	7.1	10.9	7.9	12.1	5.5	38.0
3	25	285	458	3.8	9.8	15.6	22.0	43.0	10.4	68.6
	30	395	633	5.49	11.4	19.4	30.3	62.9	15.7	93.3
4	40	843	1430	9.69	29.1	39.5	105.4	176.1	36.6	246.3
	50	1758	2756	15.19	40.1	55.0	179.9	304.4	51.6	428.7

● Ma1 indicates the permissible moment value in the axial direction when a single spline nut is used, as shown in the figure above.



● Ma2 indicates the permissible moment value in the axial direction when two spline nuts in close contact with each other are used as shown in the figure above.

