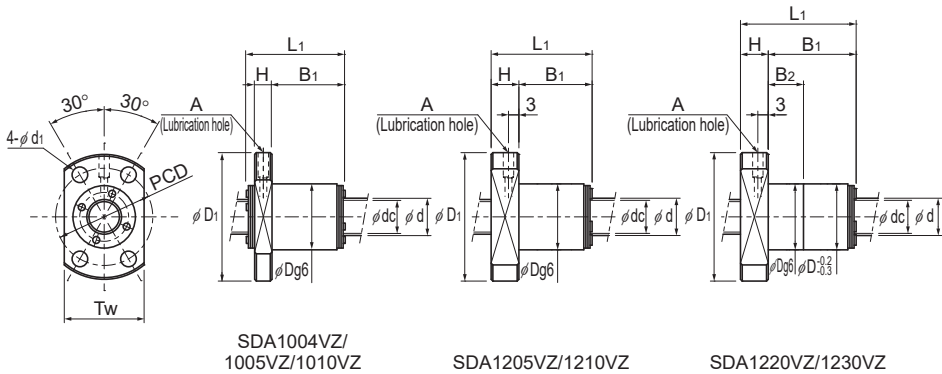


SDA-V/SDA-VZ
With Preload/No Preload

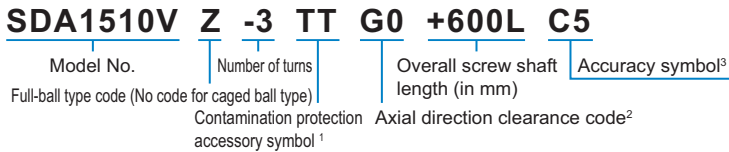
DN value	SDA-V (Caged Ball)	160,000
	SDA-VZ (Full-Ball)	100,000

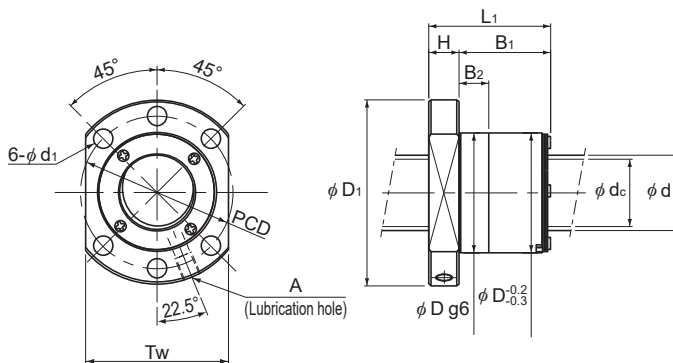


Model No.	Screw shaft outer diameter	Lead	Ball center-to-center diameter	Thread minor diameter	No. of loaded circuits	Basic load rating				Rigidity		
						SDA-V (Caged Ball)		SDA-VZ (Full-Ball)		SDA-V (Caged Ball)	SDA-VZ (Full-Ball)	
						Ca	C _{0a}	Ca	C _{0a}	K	K	
	d	Ph	dp	dc	Rows X turns	kN	kN	kN	kN	N/μm	N/μm	
○ SDA 1004VZ-4	10	4	10.4	8.77	1×4	—	—	3.54	5.42	—	143	
○ SDA 1005VZ-4	10	5	10.4	8.77	1×4	—	—	3.53	5.44	—	143	
○ SDA 1010VZ-3	10	10	10.4	8.77	1×3	—	—	2.63	3.86	—	108	
○ SDA 1205VZ-3	12	5	12.5	10.1	1×3	—	—	4.99	7.02	—	128	
○ SDA 1210VZ-2	12	10	12.5	10.1	1×2	—	—	3.31	4.25	—	83	
○ SDA 1220VZ-2	12	20	12.5	10.1	1×2	—	—	3.13	4.63	—	87	
○ SDA 1230VZ-2	12	30	12.5	10.1	1×2	—	—	2.92	4.14	—	91	
SDA 1405V-4	14	5	14.5	12.1	1×4	7.4	10.1	7.1	11.3	178	196	
SDA 1505V-3	15	5	15.5	13.1	1×3	5.9	7.9	5.6	8.8	140	153	
SDA 1510V-3	15	10	15.5	13.1	1×3	5.8	7.6	5.5	8.4	141	154	
SDA 1520V-4	15	20	15.5	13.1	2×2	6.8	10.1	6.5	11.2	181	198	
SDA 1530V-4	15	30	15.5	13.1	2×2	6.5	8.8	6.2	9.7	188	205	
SDA 1605V-3	16	5	16.5	14.1	1×3	6	8.4	5.8	9.4	147	162	
SDA 1610V-3	16	10	16.5	14.1	1×3	6	8.1	5.7	9	148	163	
SDA 1616V-3	16	16	16.5	14.1	1×3	5.9	8.4	5.6	9.2	151	165	

○: Indicates model numbers that are only compatible with Model SDA-VZ (Full-Ball type).

Model number coding





SDA14V to 16V

Unit: mm

	Nut dimensions										Screw shaft inertial moment/mm kg·m ² /mm	Nut mass kg	Shaft mass kg/m	Permissible rotational speed	
	Outer diameter	Flange diameter	Overall length							Lubrication hole				SDA-V (Caged Ball)	SDA-VZ (Full-Ball)
	D	D ₁	L ₁	H	B ₁	B ₂	PCD	d ₁	T _w	A				min ⁻¹	min ⁻¹
	19	36	24	6	16	—	28	4.5	23	$\phi 3$	7.71×10^{-9}	0.047	0.577	—	5,000
	19	36	28	6	20	—	28	4.5	23	$\phi 3$	7.71×10^{-9}	0.052	0.585	—	5,000
	19	36	37	6	29	—	28	4.5	23	$\phi 3$	7.71×10^{-9}	0.066	0.6	—	5,000
	24	40	25	8	17	—	32	4.5	26	$\phi 3$	1.60×10^{-8}	0.073	0.796	—	5,000
	24	40	29	8	21	—	32	4.5	26	$\phi 3$	1.60×10^{-8}	0.082	0.841	—	5,000
	24	40	47	8	39	20	32	4.5	26	$\phi 3$	1.60×10^{-8}	0.126	0.863	—	5,000
	24	40	65	8	57	20	32	4.5	26	$\phi 3$	1.60×10^{-8}	0.172	0.869	—	5,000
	26	48	30	10	20	10	38	5.5	40	M6	2.96×10^{-8}	0.14	1.1	5,000	5,000
	28	48	25	10	15	12.5	38	5.5	40	M6	3.90×10^{-8}	0.13	1.27	5,000	5,000
	28	48	38	10	28	25.5	38	5.5	40	M6	3.90×10^{-8}	0.17	1.33	5,000	5,000
	28	48	46	10	36	20	38	5.5	40	M6	3.90×10^{-8}	0.19	1.33	5,000	5,000
	28	48	65	10	55	20	38	5.5	40	M6	3.90×10^{-8}	0.25	1.34	5,000	5,000
	28	48	25	10	15	12.5	38	5.5	40	M6	5.05×10^{-8}	0.13	1.46	5,000	5,000
	28	48	39	10	29	26.5	38	5.5	40	M6	5.05×10^{-8}	0.16	1.52	5,000	5,000
	28	48	56	10	46	20	38	5.5	40	M6	5.05×10^{-8}	0.21	1.54	5,000	5,000

Ball Screw