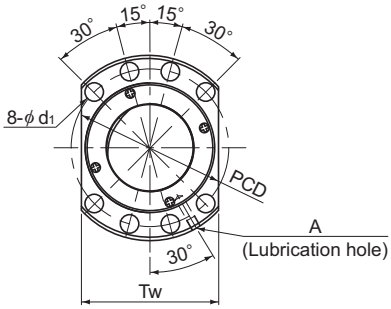
SDA-V/SDA-VZ
With Preload/No Preload

DN value	SDA-V (Caged Ball)	160,000
	SDA-VZ (Full-Ball)	130,000

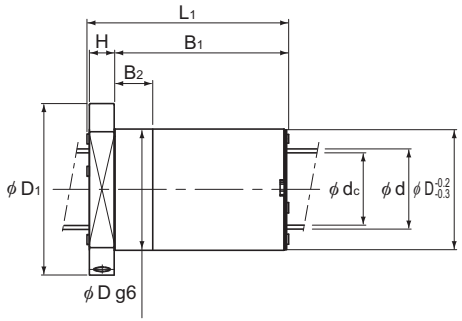


Model No.	Screw shaft outer diameter	Lead	Ball center-to-center diameter	Thread minor diameter	No. of loaded circuits	Basic load rating				Rigidity	
						SDA-V (Caged Ball)		SDA-VZ (Full-Ball)		SDA-V (Caged Ball)	SDA-VZ (Full-Ball)
						Ca	C0a	Ca	C0a	K	K
	d	Ph	dp	dc	Rows X turns	kN	kN	kN	kN	N/μm	N/μm
SDA 4510V-5	45	10	46	39.4	1×5	68.7	139.4	65.4	146.5	717	749
SDA 4510VA-5	45	10	46.75	40.2	1×5	69.2	142.2	65.9	149	729	759
SDA 4512V-5	45	12	46	39.4	1×5	68.6	139.4	65.4	146.7	717	750
SDA 4512VA-5	45	12	46.75	40.2	1×5	69.2	142.2	65.9	149.2	728	760
SDA 4516V-5	45	16	46	39.4	1×5	68.5	140.7	65.3	147	722	751
SDA 4516VA-5	45	16	46.75	40.2	1×5	69	142.2	65.8	149.5	727	761
SDA 4520V-5	45	20	46	39.4	1×5	68.4	140.7	65.1	147.5	721	752
SDA 4520VA-5	45	20	46.75	40.2	1×5	68.9	143.6	65.6	150	733	762
SDA 4520VA-10	45	20	46.75	40.2	2×5	125.1	285.8	119.1	300.1	1,413	1,475
SDA 4525V-4	45	25	46	39.4	1×4	55.5	104	52.8	109.8	572	600
SDA 4525VA-4	45	25	46.75	40.2	1×4	55.9	106.7	53.2	111.6	584	608
SDA 4530V-4	45	30	46	39.4	1×4	55.2	105.3	52.6	110.5	577	602
SDA 4530VA-4	45	30	46.75	40.2	1×4	55.7	106.7	53	112.3	583	610
SDA 4540V-3	45	40	46	39.4	1×3	41.7	78.3	39.7	81.9	431	449
SDA 4540VA-3	45	40	46.75	40.2	1×3	42.1	79.7	40.1	83.2	438	455

Model number coding

SDA4510V Z -5 TT G0 +830L C5

- SDA4510V: Model No.
- Z: Full-ball type code (No code for caged ball type)
- -5: Number of turns
- TT: Contamination protection accessory symbol [1]
- G0: Axial direction clearance code[2]
- +830L: Overall screw shaft length (in mm)
- C5: Accuracy symbol[3]



Unit: mm

	Nut dimensions										Screw shaft inertial moment/mm	Nut mass	Shaft mass	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	$kg \cdot m^2/mm$	kg	kg/m	min^{-1}	min^{-1}
	70	105	65	16	48	20	88	11	80	M8×1	3.16×10^{-6}	1.35	11.16	3,470	2,820
	75	110	65	16	48	20	93	11	85	M8×1	3.16×10^{-6}	1.62	11.4	3,420	2,780
	70	105	74	16	57	20	88	11	80	M8×1	3.16×10^{-6}	1.5	11.38	3,470	2,820
	75	110	74	16	57	20	93	11	85	M8×1	3.16×10^{-6}	1.81	11.58	3,420	2,780
	70	105	93	16	76	20	88	11	80	M8×1	3.16×10^{-6}	1.81	11.67	3,470	2,820
	75	110	93	16	76	20	93	11	85	M8×1	3.16×10^{-6}	2.19	11.82	3,420	2,780
	70	105	112	16	95	20	88	11	80	M8×1	3.16×10^{-6}	2.11	11.84	3,470	2,820
	75	110	112	16	95	20	93	11	85	M8×1	3.16×10^{-6}	2.57	11.96	3,420	2,780
	75	110	112	16	95	20	93	11	85	M8×1	3.16×10^{-6}	2.56	11.28	3,420	2,780
	70	105	110	16	93	20	88	11	80	M8×1	3.16×10^{-6}	2.04	11.95	3,470	2,820
	75	110	110	16	93	20	93	11	85	M8×1	3.16×10^{-6}	2.51	12.06	3,420	2,780
	70	105	130	16	113	20	88	11	80	M8×1	3.16×10^{-6}	2.36	12.04	3,470	2,820
	75	110	131	16	114	20	93	11	85	M8×1	3.16×10^{-6}	2.91	12.14	3,420	2,780
	70	105	129	16	112	20	88	11	80	M8×1	3.16×10^{-6}	2.33	12.16	3,470	2,820
	75	110	129	16	112	20	93	11	85	M8×1	3.16×10^{-6}	2.86	12.23	3,420	2,780