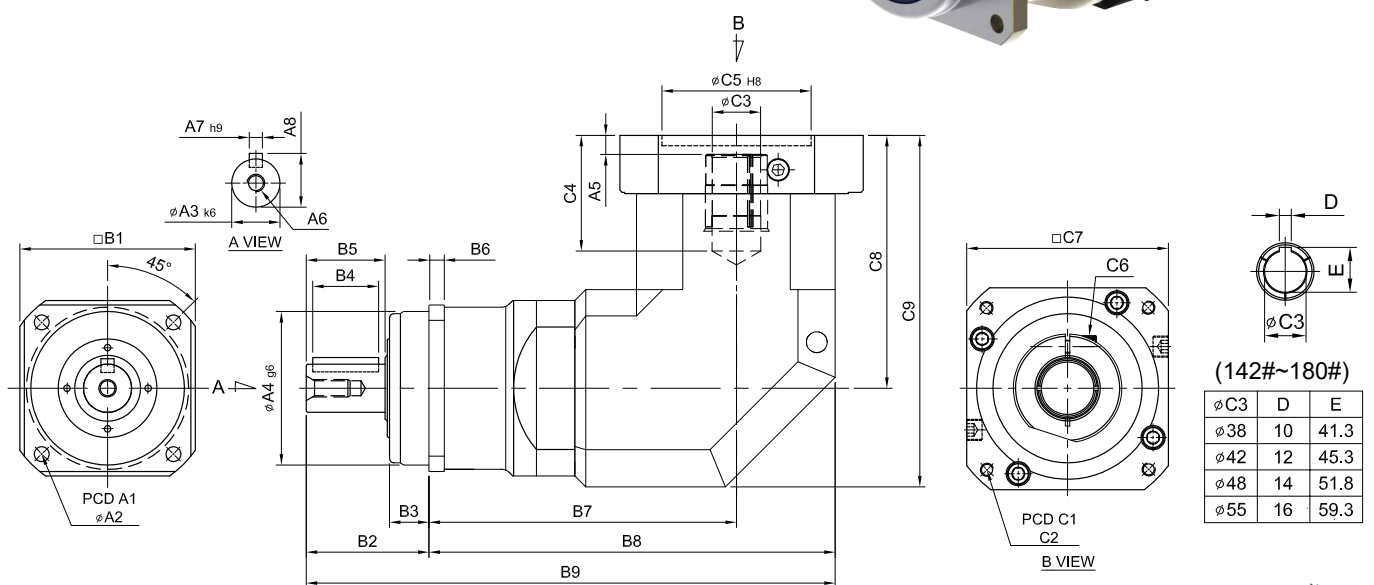
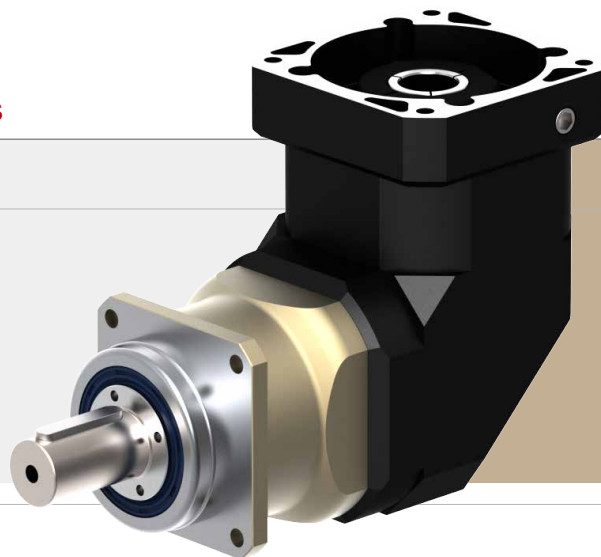


SERVOBOX Planetary Reducers

MODEL : SFL

單段 1-Stage

RATIO : 3, 4, 5, 6, 7, 8, 9, 10, 12, 14,
16, 18, 20



unit: mm

	Model Code	Model				
		62	75	100	142	180
A	A1	68	85	120	165	215
	A2	5.5	6.8	9	11	13
	A3	16	22	32	40	55
	A4	60	70	90	130	160
	A5	6	9	10	10	12.5 · 14.5
	A6	M5 x P0.8	M8 x P1.25	M10 x P1.5	M12 x P1.75	M14 x P2.0
	A7	5	6	10	12	16
	A8	18	24.5	35	43	59
B	B1	62	76	106	142	180
	B2	48	56	88	112	112
	B3	18	18	27	27	26
	B4	20	32	50	70	70
	B5	28	36	58	82	82
	B6	6	7	10	12	15
	B7	97	142.9	162	191	254.1
	B8	128	187.9	222	262	344.1
C	B9	176	243.9	310	374	456.1
	C1	70 · 75 · 90	90 · 110 · 115 · 145	115 · 145 · 165	145 · 165 · 215	200 · 215 · 265
	C2	M4 · M5 · M6	M5 · M6 · M8	M6 · M8 · M10	M8 · M10 · M12	M10 · M12 · M16
	C3	11 · 14 · 16 · 19	16 · 19 · 22 · 24	24 · 28 · 32	28 · 32 · 35 · 38	35 · 38 · 42 · 48 · 55
	C4	33.5 · 41.5	53 · 67.5	67 · 77	85	117 · 119
	C5	50 · 60 · 70	70 · 80 · 95 · 110	95 · 110 · 130	110 · 130 · 180	114.3 · 180 · 230
	C6	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5
	C7	64 · 70 · 80	92 · 110 · 130	122 · 130 · 150	146 · 150 · 190	182 · 200 · 250
	C8	77 · 85	115.3	141	165.7	235 · 237
	C9	108 · 116	160.3	201	236.7	325 · 327

High Precision Planetary Reducer

規格 Parameter	代號	單位 Unit	速比 Ratio	62	75	100	142	180
額定輸出扭矩 Rated Output Torque (Nominal output torque)	T_{2N}	Nm	3	59	165	216	625	1,206
			4	51	146	208	555	1,069
			5	48	155	333	618	1,189
			6	45	150	315	583	1,118
			7	45	142	309	573	1,108
			8	43	141	305	553	1,070
			9	44	140	293	516	993
			10	43	136	294	549	1,059
			12	45	150	315	583	1,118
			14	45	142	309	573	1,108
			16	43	141	305	553	1,070
			18	44	140	293	516	993
			20	43	138	294	549	1,059
最大加速扭矩 Max. Acceleration Torque	T_{2B}	Nm	3 ~ 20	1.8 倍額定輸出力矩 1.8 Times of Rated Output Torque				
最大輸出扭矩 Max. Output Torque 急停扭矩 Emergency Stop Torque	T_{2NOT}	Nm	3 ~ 20	3 倍額定輸出力矩 3 Times of Rated Output Torque				
額定輸入轉速 Rated Input Speed	n_{1N}	rpm	3 ~ 20	3,000	3,000	3,000	3,000	3,000
最大輸入轉速 Max. Input Speed	n_{1B}	rpm	3 ~ 20	6,000	6,000	6,000	5,000	4,000
背隙 Backlash Ps		arcmin	3 ~ 20	-	≤ 2	≤ 2	≤ 2	≤ 2
背隙 Backlash P0		arcmin	3 ~ 20	≤ 4	≤ 4	≤ 4	≤ 4	≤ 4
背隙 Backlash P1		arcmin	3 ~ 20	≤ 6	≤ 6	≤ 6	≤ 6	≤ 6
背隙 Backlash P2		arcmin	3 ~ 20	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8
扭轉剛性 Torsional Rigidity		Nm/arcmin	3 ~ 20	8	15	27	60	150
容許徑向力 Max. Radial Force	F_{2rB}	N	3 ~ 20	2,240	4,150	8,760	12,750	17,860
容許軸向力 Max. Axial Force	F_{2aB}	N	3 ~ 20	1,920	3,780	7,500	10,840	15,180
使用壽命 Service Life	L_H	hr	3 ~ 20	S5 周期運轉 : >30,000 (S1 連續運轉 : >15,000 hrs) S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)				
效率 Efficiency	η	%	3 ~ 20	$\geq 95\%$				
使用溫度 Operating Temperature		°C	3 ~ 20	- 25° C ~ + 90° C				
潤滑 Lubrication			3 ~ 20	全合成潤滑油脂 Synthetic Grease				
防護等級 Protection Class			3 ~ 20	IP65				
安裝方向 Mounting Position			3 ~ 20	任意方向 Any				
噪音值 Noise Level		dB	3 ~ 20	≤ 68	≤ 70	≤ 72	≤ 74	≤ 76
重量 Weight $\pm 3\%$		Kg	3 ~ 20	2.7	7.5	10.9	25.6	57.9

 ■ 轉動慣量 Mass Moments of Inertia (kg.cm²)

速比 Ratio	62	75	100	142	180
3	0.30	2.11	6.42	18.36	57.65
4	0.28	2.02	5.61	18.02	56.17
5	0.26	2.01	5.42	17.21	55.05
6	0.24	2.00	5.33	16.50	53.44
7	0.24	1.97	5.09	15.85	51.10
8	0.24	1.94	5.06	14.94	49.03
9	0.24	1.94	5.04	14.61	48.08
10	0.24	1.94	5.02	14.02	41.33
12	0.22	1.94	4.98	13.86	41.12
14	0.22	1.94	4.95	13.53	40.50
16	0.21	1.92	4.91	13.03	40.11
18	0.21	1.91	4.87	12.57	39.73
20	0.20	1.88	4.75	12.11	38.65