

# SERVOBOX Planetary Reducers

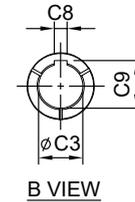
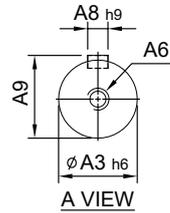
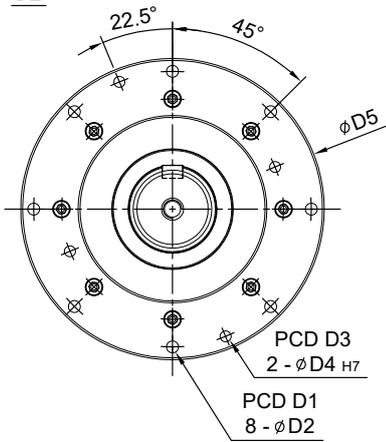
## MODEL : SB SE

雙段 2-Stage

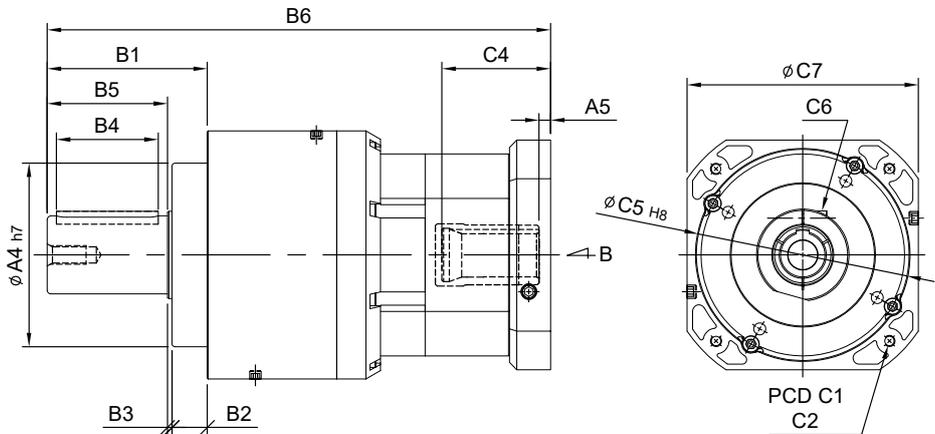
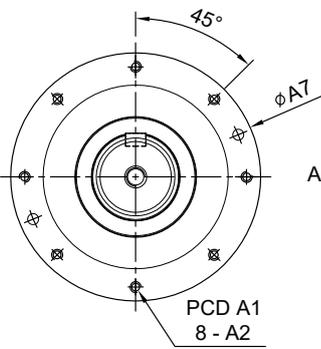
RATIO : 15, 20, 25, 30, 35,  
40, 50, 70, 100



SB



SE

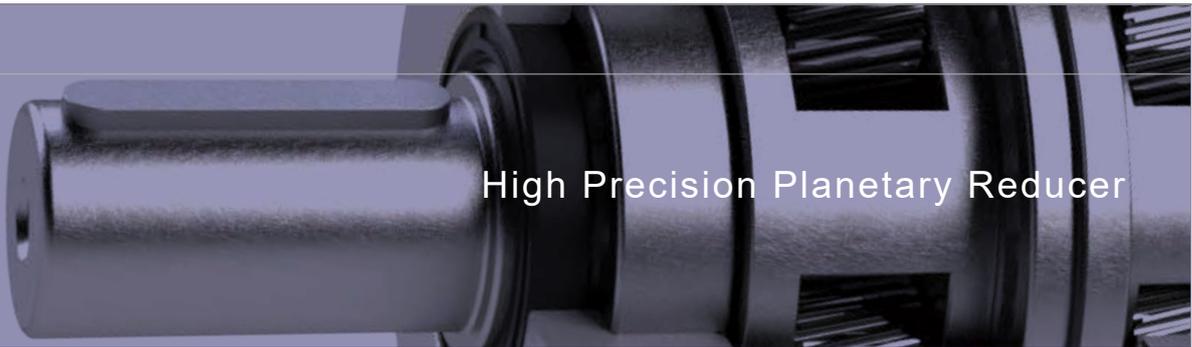


unit: mm

unit: mm

Model	270	330
<b>A</b> Code		
A1	240	300
A2	M12 x P1.75	M16 x P2.0
A3	85	100
A4	200	250
A5	12.5	26 · 23
A6	M20 x P2.5	M24 x P3.0
A7	270	336
A8	22	28
A9	90	106
<b>B</b> Code		
B1	173	187
B2	38	42
B3	5	5
B4	110	120
B5	130	140
B6	544 · 547	625 · 632.5 · 635.5

Model	270	330
<b>C</b> Code		
C1	200 · 265 · 300	265 · 300 · 350
C2	M12 · M16	M12 · M16 · M18
C3	38 · 42 · 48 · 55	48 · 55 · 60 · 65 · 70
C4	117.5 · 120.5	146 · 149
C5	114.3 · 230 · 250	230 · 250 · 300
C6	M10 x P1.5	M12 x P1.75
C7	222 · 250 · 265	280 · 300 · 330
C8	10 · 12 · 14 · 16	14 · 16 · 18 · 20
C9	41.3 · 45.3 · 51.8 · 59.3	51.8 · 59.3 · 64.4 · 69.4 · 74.8
<b>D</b> Code		
D1	300	380
D2	13	17
D3	300	380
D4	12	14
D5	328	416
D6	24	28



## High Precision Planetary Reducer

規格 Parameter	代號	單位 Unit	速比 Ratio	270	330
額定輸出扭矩 Rated Output Torque (Nominal output torque)	$T_{2N}$	Nm	15	4,770	8,790
			20	4,730	8,730
			25	4,680	8,660
			30	4,770	8,610
			35	4,570	8,520
			40	4,730	8,440
			50	4,680	8,660
			70	4,570	8,520
100	4,420	8,310			
最大加速扭矩 Max. Acceleration Torque	$T_{2B}$	Nm	15 ~ 100	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	15 ~ 100	3 倍額定輸出力矩 3 Times of Rated Output Torque	
額定輸入轉速 Rated Input Speed	$n_{IN}$	rpm	15 ~ 100	2,000	2,000
最大輸入轉速 Max. Input Speed	$n_{IB}$	rpm	15 ~ 100	3,000	3,000
背隙 Backlash Ps		arcmin	15 ~ 100	≤ 3	≤ 3
背隙 Backlash P0		arcmin	15 ~ 100	≤ 5	≤ 5
背隙 Backlash P1		arcmin	15 ~ 100	≤ 7	≤ 7
背隙 Backlash P2		arcmin	15 ~ 100	≤ 9	≤ 9
扭轉剛性 Torsional Rigidity		Nm/arcmin	15 ~ 100	510	980
容許徑向力 Max. Radial Force	$F_{2rB}$	N	15 ~ 100	107,100	224,910
容許軸向力 Max. Axial Force	$F_{2aB}$	N	15 ~ 100	53,550	112,455
使用壽命 Service Life	$L_H$	hr	15 ~ 100	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	$\eta$	%	15 ~ 100	≥ 94%	
使用溫度 Operating Temperature		°C	15 ~ 100	- 25 °C ~ + 90 °C	
潤滑 Lubrication			15 ~ 100	全合成潤滑油脂 Synthetic Grease	
防護等級 Protection Class			15 ~ 100	IP65	
安裝方向 Mounting Position			15 ~ 100	任意方向 Any	
噪音值 Noise Level		dB	15 ~ 100	≤ 72	≤ 74
重量 Weight ±3%		Kg	15 ~ 100	SB : 137 · SE : 127.5	SB : 186 · SE : 176

### ■ 轉動慣量 (kg.cm<sup>2</sup>) Mass Moments of Inertia

Ratio	270	330
15	63.81	185.05
20	63.81	185.05
25	63.81	185.05
30	63.25	183.43
35	63.25	183.43
40	63.25	183.43
50	63.25	183.43
70	61.12	177.26
100	60.48	175.39