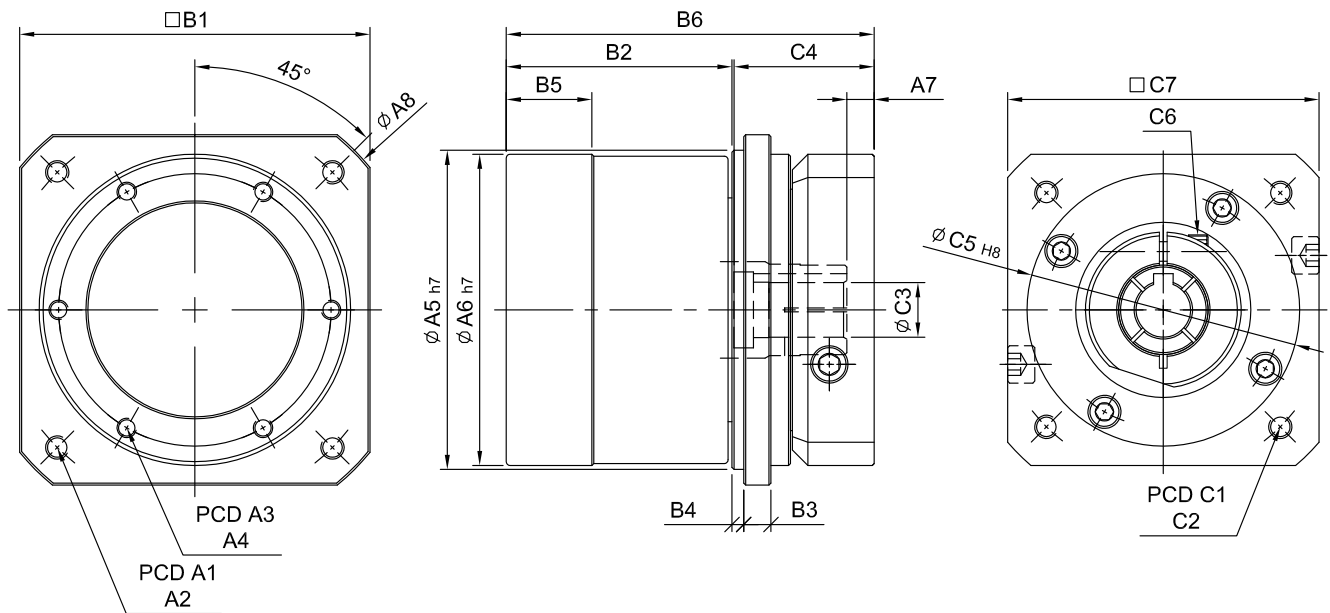
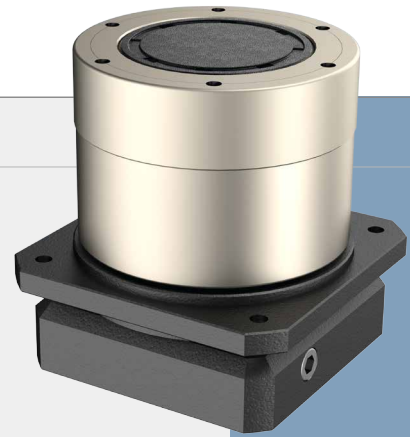


# SERVOBOX Planetary Reducers

## MODEL : SR

1-Stage RATIO : 2,  
3, 4, 6, 9



unit: mm

Code	Model	82	100	132
	A	A1	100	122
A2		M6 x P1.0	M8 x P1.25	M10 x P1.5
A3		70	84	114
A4		M5 x P0.8	M6 x P1.0	M8 x P1.25
A5		82	100	132
A6		80	96	128
A7		7 · 9	8 · 17	11.5
A8		116	139	184
B	B1	90	108	140
	B2	58	63	85.5
	B3	7	9.5	12
	B4	3	3.5	4
	B5	22	24	34
	B6	94.5	111.5	143
C	C1	85	115	130
	C2	M6 x P1.0	M6 x P1.0	M8 x P1.25
	C3	14 · 19	19 · 24	24 · 28
	C4	36 · 43	47 · 56	63.5
	C5	70	95	110
	C6	M5 x P0.8	M6 x P1.0	M8 x P1.25
	C7	80	110	130

## High Precision Planetary Reducer

Model No.		Unit	Ratio	82	100	132
Rated Output Torque (Nominal output torque)	$T_{2N}$	Nm	2	96	145	301
			3	91	135	270
			4	84	128	265
			6	80	123	258
			9	75	116	246
Acceleration Torque	$T_{2B}$	Nm	2 ~ 9	1.5 Times of Rated Output Torque		
Max. Output Torque Emergency Stop Torque	$T_{2NOT}$	Nm	2 ~ 9	3 Times of Rated Output Torque		
Rated Input Speed	$n_{1N}$	rpm	2 ~ 9	3,000		
Max. Input Speed	$n_{1B}$	rpm	2 ~ 9	6,000		
Backlash		arcmin	2 ~ 9	≤ 6	≤ 6	≤ 6
Torsional Rigidity		Nm/arcmin	2 ~ 9	10	14	27
Max. Radial Force	$F_{2rB}$	N	2 ~ 9	3,000	3,400	7,200
Max. Axial Force	$F_{2aB}$	N	2 ~ 9	1,500	1,700	3,600
Service Life	$L_H$	hr	2 ~ 9	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)		
Efficiency	$\eta$	%	2 ~ 9	≥ 97%		
Operating Temperature		°C	2 ~ 9	- 25° C ~ + 90° C		
Lubrication			2 ~ 9	Synthetic Grease		
Protection Class			2 ~ 9	IP65		
Mounting Position			2 ~ 9	Any		
Noise Level		dB	2 ~ 9	≤ 60	≤ 62	≤ 64
Weight ±3%		Kg	2 ~ 9	2.5		

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

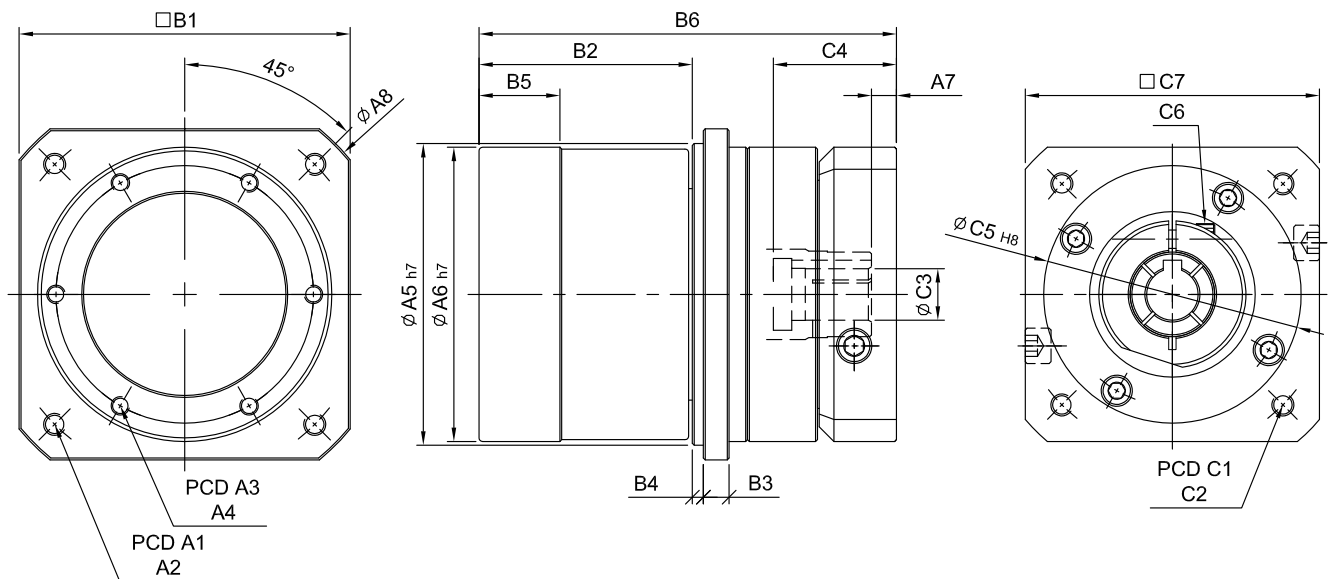
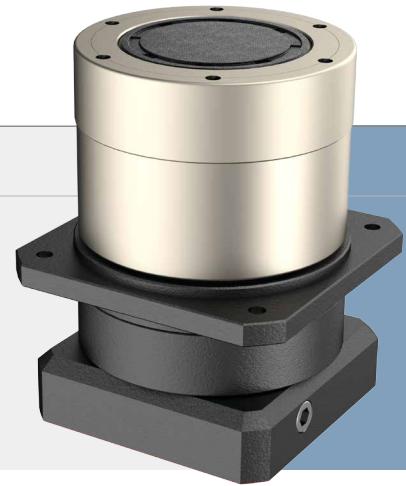
Ratio	82	100	132
2	0.3	0.5	2.7
3	0.3	0.5	2.7
4	0.3	0.5	2.7
6	0.3	0.5	2.7
9	0.3	0.5	2.7

# SERVOBOX Planetary Reducers

## MODEL : SR

2-Stage

RATIO : 10, 15, 20, 24, 30, 36, 40, 45, 60, 90



unit: mm

Model		82	100	132
A	A1	100	122	166
	A2	M6 x P1.0	M8 x P1.25	M10 x P1.5
	A3	70	84	114
	A4	M5 x P0.8	M6 x P1.0	M8 x P1.25
	A5	82	100	132
	A6	80	96	128
	A7	7-9	8	8
	A8	116	139	184
B	B1	90	108	140
	B2	58	63	85.5
	B3	7	9.5	12
	B4	3	3.5	4
	B5	22	24	34
	B6	113.5	137	168
C	C1	85	115	145
	C2	M6 x P1.0	M6 x P1.0	M8 x P1.25
	C3	14-19	19	19-24
	C4	33.5-40.8	43.5	52
	C5	70	95	110
	C6	M5 x P0.8	M5 x P0.8	M8 x P1.25
	C7	80	110	130

## High Precision Planetary Reducer

Model No.		Unit	Ratio	82	100	132
Rated Output Torque (Nominal output torque)	$T_{2N}$	Nm	10	96	145	301
			15	91	135	270
			20	84	128	265
			24	80	123	258
			30	80	123	258
			36	75	116	246
			40	84	128	265
			45	75	116	246
			60	80	123	258
			90	75	116	246
Max. Acceleration Torque	$T_{2B}$	Nm	2 ~ 9	1.5 Times of Rated Output Torque		
Max. Output Torque Emergency Stop Torque	$T_{2NOT}$	Nm	2 ~ 9	3 Times of Rated Output Torque		
Rated Input Speed	$n_{1N}$	rpm	2 ~ 9	3,000		
Max. Input Speed	$n_{1B}$	rpm	2 ~ 9	6,000		
Backlash		arcmin	2 ~ 9	≤ 8	≤ 8	≤ 8
Torsional Rigidity		Nm/arcmin	2 ~ 9	10	14	27
Max. Radial Force	$F_{2rB}$	N	2 ~ 9	3,000	3,400	7,200
Max. Axial Force	$F_{2aB}$	N	2 ~ 9	1,500	1,700	3,600
Service Life	$L_H$	hr	2 ~ 9	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)		
Efficiency	$\eta$	%	2 ~ 9	≥ 94%		
Operating Temperature		°C	2 ~ 9	- 25° C ~ + 90° C		
Lubrication			2 ~ 9	Synthetic Grease		
Protection Class			2 ~ 9	IP65		
Mounting Position			2 ~ 9	Any		
Noise Level		dB	2 ~ 9	≤ 60	≤ 62	≤ 64
Weight ±3%		Kg	2 ~ 9	2.8		

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

Ratio	82	100	132
2	0.3	0.5	2.7
3	0.3	0.5	2.7
4	0.3	0.5	2.7
6	0.3	0.5	2.7
9	0.3	0.5	2.7