



# SMD GEARBOX

## SMD

BRILLIANTLY AGILE!



# HIGH PRECISION SERVO GEARBOX



## SPRE-S Series

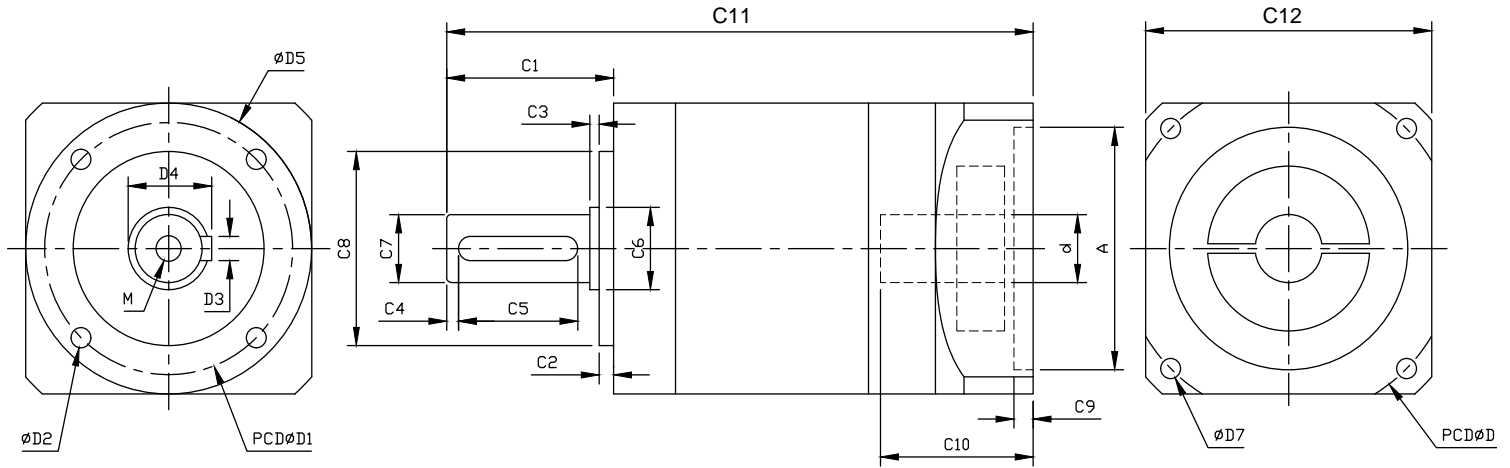
Planetary Gearbox with Shaft Output  
Round Frame  
Spur Gears



Information	Stage	Ratio	SPRE60-S	SPRE080-S	SPRE090-S	SPRE115-S	SPRE142-S
Defined Output Torque (Nm)	1	3	18	40	50	125	290
		4	36	90	110	230	460
		5	40	110	125	260	550
		6	20	40	50	90	340
		7	20	40	50	90	340
		8	12	22	32	70	210
		10	12	22	32	70	210
	2	12	36	90	110	230	460
		15	40	110	125	260	550
		16	36	90	110	230	460
		20	40	110	125	260	550
		25	40	110	125	260	550
		28	36	90	110	230	460
		30	18	40	50	125	290
		35	40	110	125	260	550
		40	36	90	110	230	460
		50	40	110	125	260	550
		60	20	40	50	90	340
		70	20	40	50	90	340
		80	12	22	32	70	210
100	12	22	32	70	210		
Motor Shaft Size	1, 2	3-100	6—14	14—19	14—19	16—24	19-35
Peak Output Torque (Nm)	1, 2	3-100	2 times of Defined Output Torque				
Backlash (arc min)	1	3-10	≤10	≤10	≤10	≤10	≤10
Backlash (arc min)	2	12-100	≤12	≤12	≤12	≤12	≤12
Defined Input Speed (RPM)	1, 2	3-100	4000	3500	3500	3500	2500
Torsional rigidity Nm/arcmin	1, 2	3-100	1.8	4.7	4.85	11	55
Allowable Radial Force (N)	1,2	3-100	220	400	430	1000	4500
Allowable Axial Force (N)	1,2	3-100	240	420	450	1240	4800
Life Time (hrs)	1,2	3-100	10000				
Efficiency (%)	1	3-10	≥96				
Efficiency (%)	2	12-100	≥93				
Weight (kg)	1	3-10	1.1	2.1	4.4	6.6	26.5
	2	12-100	1.4	3	5	8.2	29.6
Temperature (°C)			-10°C~+80°C				
Protection Rank	1, 2	3-100	IP54				
Lubricant			Synthetic Lubricant				
Noise (dB)	1,2	3-100	61	63	63	68	75

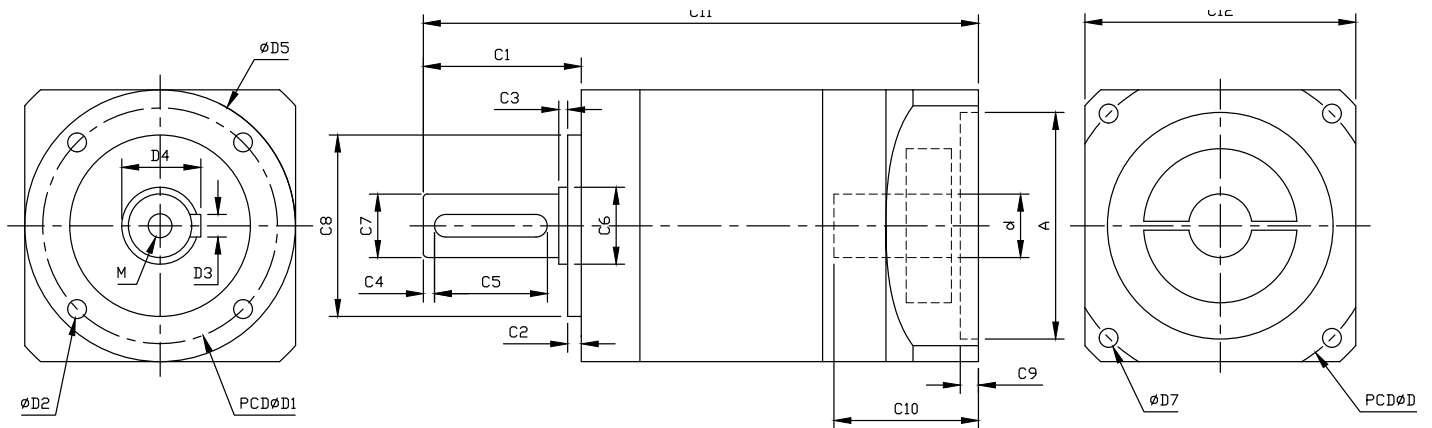
# Dimension Sheet

Dimension(single stage,Ratio i=3 to 10)



Dimension	SPRE042S	SPRE060S	SPRE080S	SPRE090S	SPRE120S	SPRE160S
D1	34	52	70	80	100	145
D2	M4	M5	M6	M6	M10	M12
D3	3	5	6	6	8	12
D4	11.2	16	22.5	24.5	28	43
D5	42	60	80	90	115	162
D6	46	70	90	90	145	200
D7	M4	M4	M5	M5	M8	M12
C1	26	35	40	46	55	87
C2	2	3	3	5	4	5
C3	2.6	2	1	5	1	2
C4	2.5	2.5	5	2	5	5
C5	16	25	25	32	40	70
C6	12	17	25	30	35	55
C7	10	14	20	22	25	40
C8	26	40	60	68	80	130
C9	5	5	6	5	14	10
C10	26	31.5	41	41	60	83
C11	86	118.5	152.9	158.2	204.2	268.5
C12	42	60	80	80	130	180
M	M4	M5	M6	M6	M10	M12
A	30	50	70	70	110	114.3
d	5-8	6-14	14-19	14-19	19-24	24-35

Dimension(Double stage,Ratio i=15 to 100)



Dimension	SPRE042S	SPRE060S	SPRE080S	SPRE090S	SPRE120S	SPRE160S
D1	34	52	70	80	100	145
D2	M4	M5	M6	M6	M10	M12
D3	3	5	6	6	8	12
D4	11.2	16	22.5	24.5	28	43
D5	42	60	80	90	115	162
D6	46	70	90	90	145	200
D7	M4	M4	M5	M5	M8	M12
C1	26	35	40	46	55	87
C2	2	3	3	5	4	5
C3	2.6	2	1	5	1	2
C4	2.5	2.5	5	2	5	5
C5	16	25	25	32	40	70
C6	12	17	25	30	35	55
C7	10	14	20	22	25	40
C8	26	40	60	68	80	130
C9	5	5	6	5	14	10
C10	26	31.5	41	41	60	83
C11	'104	137.5	177.4	183.4	273	313.5
C12	42	60	80	80	130	180
M	M4	M5	M6	M6	M10	M12
A	30	50	70	70	110	114.3
d	5-8	6-14	14-19	14-19	19-24	24-35



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## GET IN TOUCH

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