



SMD

BRILLIANTLY AGILE!

SMD GEARBOX

HIGH PRECISION SERVO GEARBOX



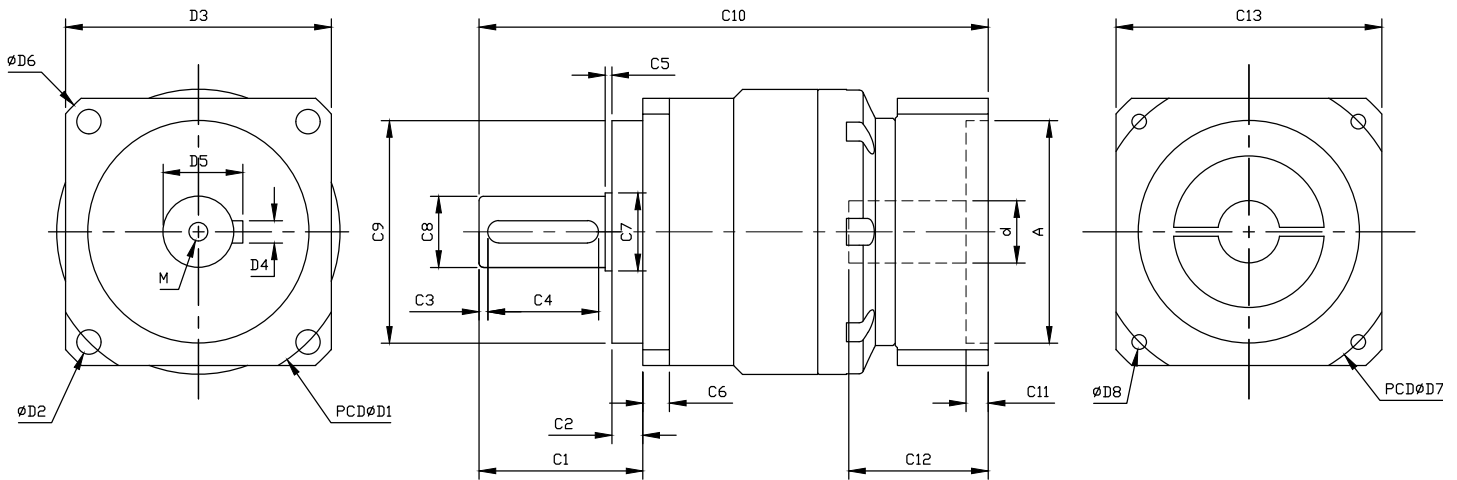
SPE Series

Planetary Gearbox with Shaft Output
Square Frame
Helical Gears



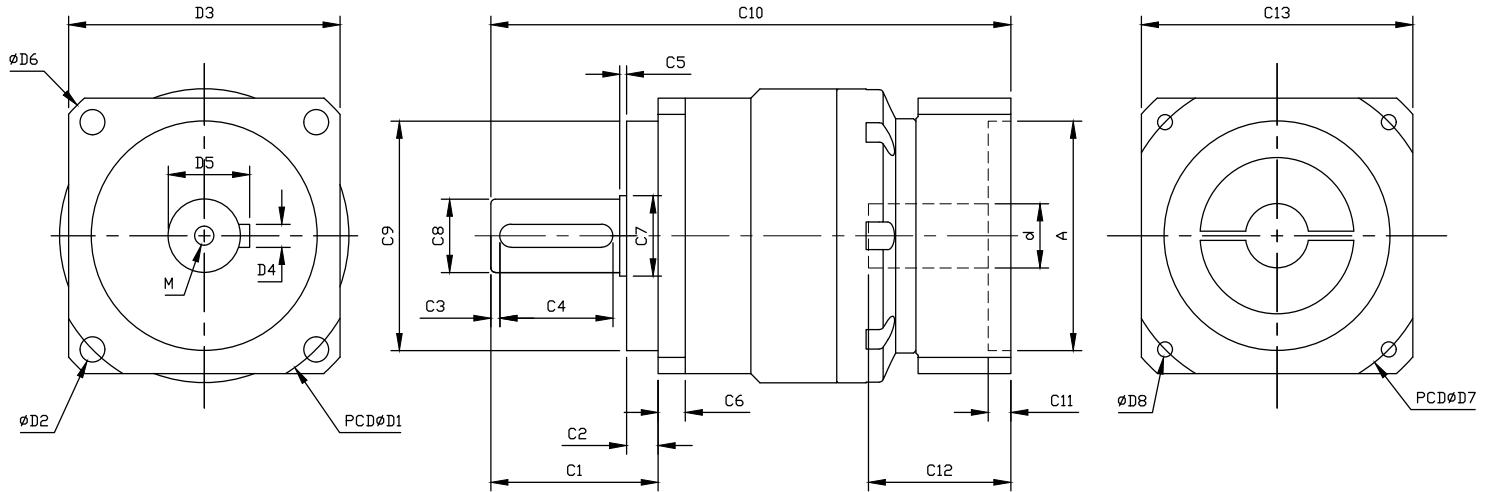
Performance	Unit	Stage	Ratio	SPE042	SPE060	SPE090	SPE115	SPE142	SPE180	SPE220
Rated output torque	Nm	1	3	20	55	130	208	342	588	1140
			4	19	50	140	290	542	1050	1700
			5	22	60	160	330	650	1200	2000
			6	20	55	150	310	600	1100	1900
			7	19	50	140	300	550	1100	1800
			8	17	45	120	260	500	1000	1600
		2	10	14	40	100	230	450	900	1500
			15	20	55	130	208	342	588	1140
			20	19	50	140	290	542	1050	1700
			25	22	60	160	330	650	1200	2000
			30	20	55	150	310	600	1100	1900
			35	19	50	140	300	550	1100	1800
			40	17	45	120	260	500	1000	1600
			50	22	60	160	330	650	1200	2000
			60	20	55	150	310	600	1100	1900
			70	19	50	140	300	550	1100	1800
			80	17	45	120	260	500	1000	1600
			100	14	40	100	230	450	900	1500
Emergency stop torque	Nm	1,2	3 ~ 100	Triple rated output torque						
Rated input speed	rpm	1,2	3-100	5000	5000	4000	4000	3000	3000	2000
Maximum input speed		1,2	3-100	10000	10000	8000	8000	6000	6000	4000
Standard backlash P2	arcmin	1	3~10	≤5	≤5	≤5	≤5	≤5	≤5	≤5
		2	15 ~ 100	≤8	≤8	≤8	≤8	≤8	≤8	≤8
Torsional rigidity	Nm/arcmin	1,2	3-100	3	7	14	25	50	145	225
Allowable radial force	N	1,2	3-100	780	1530	3250	6700	9400	14500	50000
Allowable axial force	N	1,2	3-100	390	765	1625	3350	4700	7250	25000
Lifespan	hr	1,2	3-100	20000						
Efficiency	%	1	3~10	≥97%						
		2	15 ~ 100	≥94%						
Weight	kg	1	3~10	0.6	1.3	3.7	7.8	14.5	29	48
		2	15 ~ 100	0.8	1.5	4.1	9	17.5	33	60
Working temperature	°C	1,2	3-100	-10°C~90°C						
Lubricating		1,2	Synthetic lubricating grease							
IP Grade		1,2	3-100	IP65						
Installation direction		1,2	3-100	In any direction						
(n1=3000rpm, Noise level (n1=3000rpm,off load)	dB(A)	1,2	3 ~ 100	≤56	≤58	≤60	≤63	≤65	≤67	≤70

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



Dimension	SPE042	SPE060	SPE090	SPE115	SPE140	SPE180	SPE220
D1	50	70	100	130	165	215	250
D2	3.5	5.5	6.5	9	11	13.5	17
D3	42	60	90	115	140	180	220
D4	5	5	6	10	12	16	20
D5	15	18	24.5	35	43	59	79.5
D6	57	80	116	152	185	240	290
D7	46,70	70,90	90,145	145,200	200	200	235
d8	M4,M4	M4,M5	M5,M8	M8,M12	M8*1.75P	M12*1.75P	M12.1.75P
C1	26	37	48	60	95	105	138
C2	5.5	7	10	7	13	20	30
C3	2	2	3	5	5	6	7
C4	16	25	32	40	63	70	90
C5	1	1.5	1.5	2	3	3	3
C6	4	7	8	10	12	15	20
C7	15	18	30	40	50	70	85
C8	13	16	22	32	40	55	75
C9	35	50	80	110	130	160	180
C10	86/95	115/128	147/165	199.5/221.5	279	318	377
C11	5,5	5,5	6,14	14,19	19	24	20
C12	26,31.5	31.5,41	41,59	60,81	81	114	117
C13	48,60	60,80	80,130	130,180	180	180	220
M	M4*0.7P	M5*08P	M8*1.25P	M12*1.75P	M16*2P	M20*2.5P	M20*2.5
A	30,50	50,70	70,110	110,114.3	114.3	114.3	200
d	<=8,<=11	<=14,<=19	<=19,<=24	<=24,<=35	<=35,<=42	<=42	<=42,<=55

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



Dimension	SPE042	SPE060	SPE090	SPE115	SPE140	SPE180	SPE220
D1	50	70	100	130	165	215	250
D2	3.5	5.5	6.5	9	11	13.5	17
D3	42	60	90	115	140	180	220
D4	5	5	6	10	12	16	20
D5	15	18	24.5	35	43	59	79.5
D6	57	80	116	152	185	240	290
D7	46,70	70,90	70,90,145	90,145	145	200	200
D8	M4,M4	M4,M5	M5,M8	M8,M12	M8*1.75P	M12*1.75P	M12.1.75P
C1	26	37	48	60	95	105	138
C2	5.5	7	10	7	13	20	30
C3	2	2	3	5	5	6	7
C4	16	25	32	40	63	70	90
C5	1	1.5	1.5	2	3	3	3
C6	4	7	8	10	12	15	20
C7	15	18	30	40	50	70	85
C8	13	16	22	32	40	55	75
C9	35	50	80	110	130	160	180
C10	107,116	147,160	168,184.5,202.5	214,244.5	325	352.5	441.5
C11	5,5	5,5	5,6,14	6,14	10	9	24
C12	26,31.5	31.5,41	31.5,41,59	41,60	66	80	114
C13	48,60	60,80	60,80,130	80,130	130	180	180
M	M4*0.7P	M5*08P	M8*1.25P	M12*1.75P	M16*2P	M20*2.5P	M20*2.5
A	30,50	50,70	70,110	110,114.3	114.3	114.3	200
d	<=8,<=11	<=14,<=19	<=14,<=19,<=24	<=19,<=24	<=24/<=28	<=35	<=42



SMD

BRILLIANTLY AGILE!

GET IN TOUCH

HEADQUARTERS

SMD Gearbox (Taiwan)

📍 Zhongshan Rd, Taichung City,
Taiwan - 41171.

☎ +886 (09) 33510083



sales@smdgearbox.com

HEAD OFFICE (OVERSEAS)

SMD Gearbox (India)

📍 A-51, H Block, M. I. D. C., Pimpri-Chinchwad
Pune, Maharashtra, India - 411018.

☎ +91 70306 69818

☎ +91 020-46212730

www.smdgearbox.com