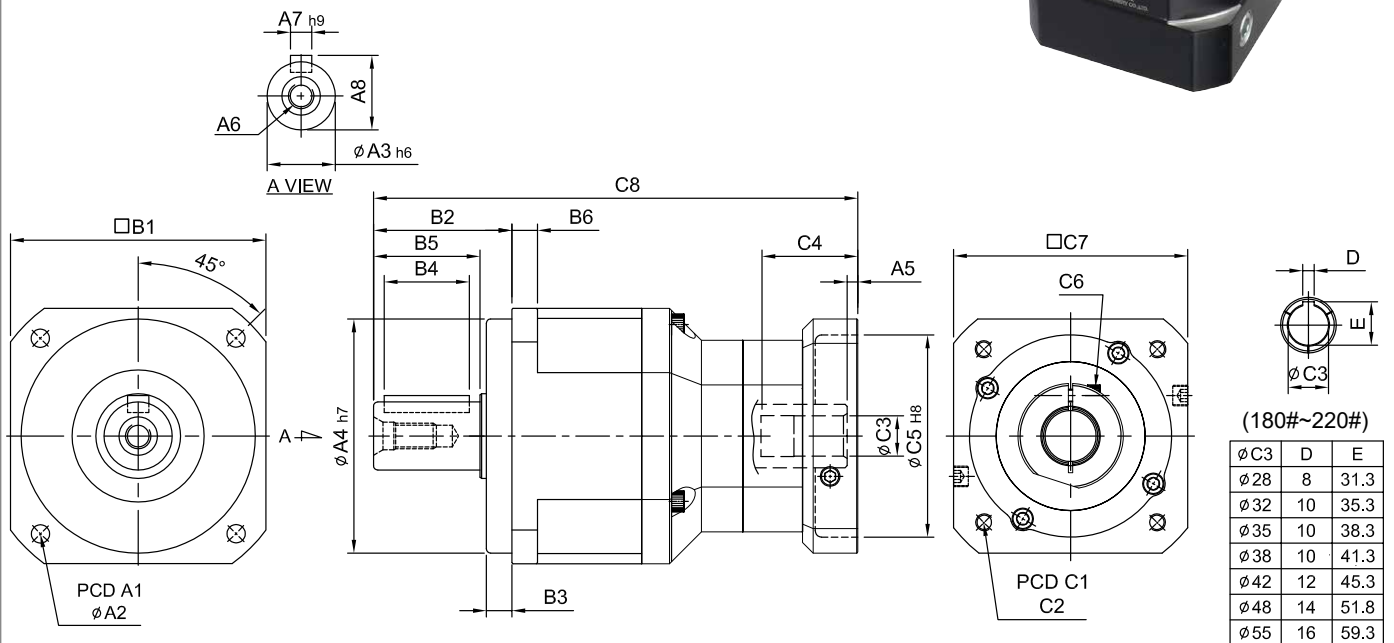


# FABGEAR Planetary Reducers

## MODEL : PB

雙段 2-Stage

RATIO : 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100



unit: mm

Model Code	62	90	120	142	180	220
<b>A</b>						
A1	70	100	130	165	215	250
A2	5.5	6.8	9	11	13	17
A3	16	22	32	40	55	75
A4	50	80	110	130	160	180
A5	5	6	9·23.5	10·20	10	11.5·13.5
A6	M5 × P0.8	M8 × P1.25	M10 × P1.5	M12 × P1.75	M14 × P2.0	M16 × P2.0
A7	5	6	10	12	16	20
A8	18	24.5	35	43	59	79.5
<b>B</b>						
B1	62	90	120	142	180	220
B2	36	48	65	92	106	139
B3	7	10	12	15	20	30
B4	20	30	40	65	70	90
B5	28	36	50	74	82	104
B6	8	10	12	15	16	20
<b>C</b>						
C1	46·60·63	70·75·90	90·100·115·145	115·145·165	145·165·215	200·215·265
C2	M3·M4·M5	M4·M5·M6	M5·M6·M8	M6·M8·M10	M8·M10·M12	M10·M12
C3	8·9·11	11·14·16·19	16·19·22·24	22·24·28·32	28·32·35·38	35·38·42·48·55
C4	26·30.5	33.5·41.5	59·73.5	67·77	84.5	116.5·118.5
C5	30·40·50	50·60·70	70·80·95·110	70·95·110·130	110·130·180	114.3·180·230
C6	M4 × P0.7	M5 × P0.8	M6 × P1.0	M8 × P1.25	M10 × P1.5	M10 × P1.5
C7	46·55	64·70·80	92·110·130	122·130·150	146·180·190	182·200·250
C8	139.5	172.5·180.5	241·255.5	298.5·308.5	358.5	446.5·448.5



規格 Parameter	代號	單位 Unit	速比 Ratio	62	90	120	142	180	220
額定輸出扭矩 Rated Output Torque (Nominal output torque)	$T_{2N}$	Nm	15	54	145	301	553	1,067	1,786
			20	48	128	269	491	940	1,587
			25	45	132	278	510	1,050	1,770
			30	41	125	252	466	985	1,680
			35	41	123	258	473	975	1,645
			40	39	115	241	442	942	1,605
			50	45	132	278	510	1,050	1,770
			60	41	125	252	466	985	1,680
			70	41	123	258	473	975	1,645
			80	40	115	241	442	942	1,605
			90	40	120	227	412	875	1,490
			100	40	116	246	452	930	1,565
最大加速扭矩 Max. Acceleration Torque	$T_{2B}$	Nm	15 ~ 100	1.8 倍額定輸出扭矩 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 倍額定輸出扭矩 3 Times of Rated Output Torque					
額定輸入轉速 Rated Input Speed	$n_{IN}$	rpm	15 ~ 100	3,000	3,000	3,000	3,000	3,000	3,000
最大輸入轉速 Max. Input Speed	$n_{IB}$	rpm	15 ~ 100	6,000	6,000	6,000	5,000	5,000	4,000
背隙 Backlash		arcmin	15 ~ 100	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10
扭轉剛性 Torsional Rigidity		Nm/arcmin	15 ~ 100	6	14	27	60	140	240
容許徑向力 Max. Radial Force	$F_{2rB}$	N	15 ~ 100	1,120	3,040	6,460	8,830	14,820	48,450
容許軸向力 Max. Axial Force	$F_{2aB}$	N	15 ~ 100	560	1,520	3,230	4,410	7,410	24,225
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	≤ 58	≤ 60	≤ 63	≤ 65	≤ 67	≤ 70
重量 Weight ±3%		Kg	15 ~ 100	1.6	4.04	9.49	17	34.1	57.3

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

Ratio	62	90	120	142	180	220
15	0.03	0.14	0.46	2.63	7.30	22.79
20	0.03	0.14	0.46	2.63	7.30	22.79
25	0.03	0.14	0.46	2.63	7.10	22.79
30	0.03	0.14	0.46	2.43	7.10	22.59
35	0.03	0.14	0.44	2.43	7.10	22.59
40	0.03	0.14	0.44	2.43	6.92	22.59
50	0.03	0.14	0.44	2.43	6.92	22.59
60	0.03	0.14	0.43	2.39	6.72	21.83
70	0.03	0.14	0.43	2.39	6.72	21.83
80	0.03	0.14	0.43	2.39	6.72	21.83
90	0.03	0.14	0.40	2.39	6.72	21.60
100	0.03	0.14	0.40	2.39	6.72	21.60