



"P" Series ServoFit® Precision Planetary Gearhead Dimensional Data

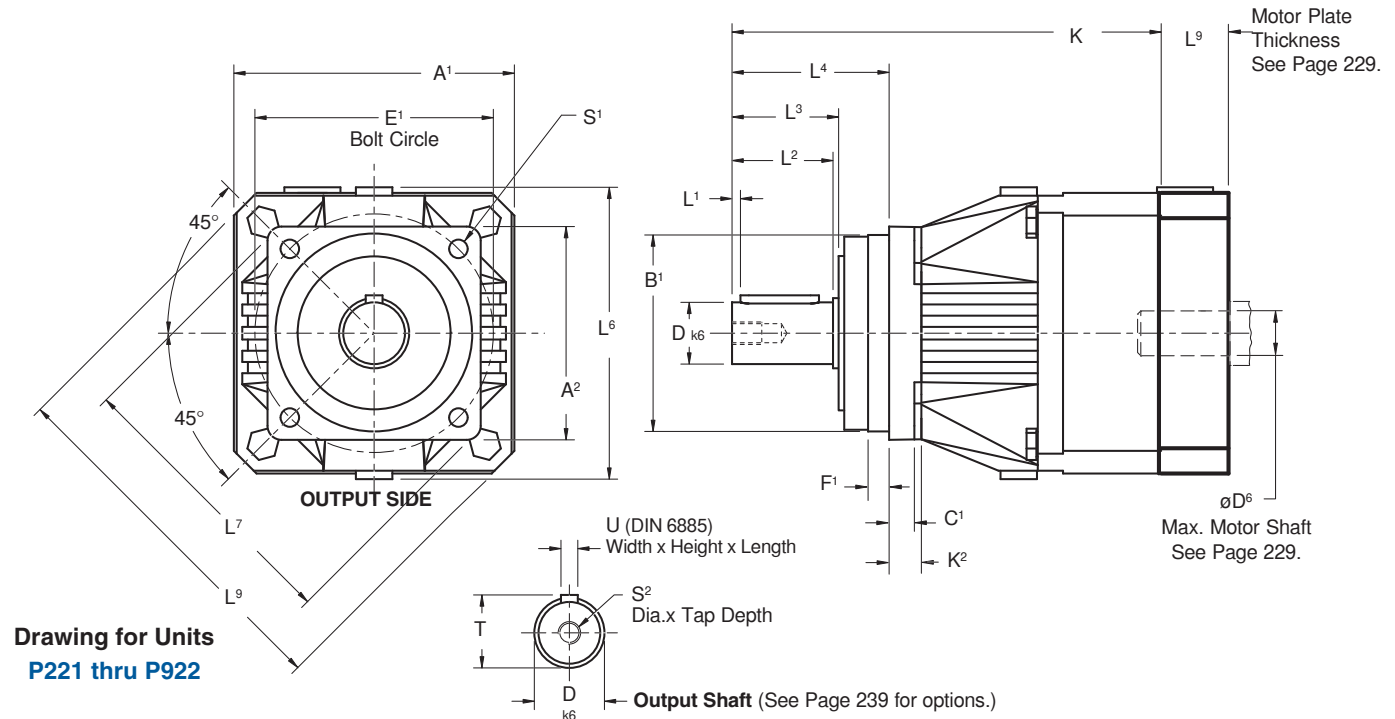


Table No. 1

"P" Series – Precision Planetary Gearhead Dimensions (mm/inches)

Unit	A ¹	A ²	B ¹	h ₆	C ¹	D _{k6}	E ¹	F ¹	K ²	L ¹	L ²	L ³	L ⁴	L ⁶	L ⁷	L ⁸	S ¹	S ²	T	U
P221/P222	55 2.17	55 2.17	50 1.969	+0.000/-0.019 +0.000/-0.0007	6 .24	12 +0.012/+0.001	63 2.48	7 .28	—	2 .08	22 .87	24 .94	36 1.42	62 2.44	74 2.91	80 3.15	5.5 .22	M4x10	13.5 .53	A4x4x18
P321/P322	72 2.83	72 2.83	60 2.362	+0.000/-0.019 +0.000/-0.0007	7 .28	16 +0.012/+0.001	75 2.95	7.5 .30	—	2 .08	28 1.10	30 1.18	48 1.89	79 3.11	92 3.62	92 3.62	5.5 .22	M5x12.5	18 .71	A5x5x22
P421/P422	98 3.86	76 2.99	70 2.756	+0.000/-0.019 +0.000/-0.0007	9 .35	22 +0.015/+0.002	85 3.35	7.5 .30	12 .47	3 .12	36 1.42	38 1.50	56 2.20	98 3.86	103.3 4.07	130 5.12	6.6 .26	M8x19	24.5 .96	A6x6x28
P521/P522	115 4.53	101 3.98	90 3.543	+0.000/-0.022 +0.000/-0.0009	10 .39	32 +0.018/+0.002	120 4.72	15 .59	14 .55	3 .12	58 2.28	60 2.36	88 3.46	121 4.76	139 5.47	149 5.87	9 .35	M12x28	35 1.38	A10x8x50
P721/P722	145 5.71	145 5.71	130 5.118	+0.000/-0.025 +0.000/-0.001	15 .59	40 +0.018/+0.002	165 6.50	3.5 .14	—	4 .16	82 3.23	85 3.35	112 4.41	145 5.71	—	190 7.48	11 .43	M16x36	43 1.69	A12x8x70
P821/P822	190 7.48	190 7.48	160 6.299	+0.000/-0.025 +0.000/-0.001	15 .59	55 +0.021/+0.002	215 8.46	10 .39	—	6 .24	82 3.23	85 3.35	112 4.41	190 7.48	—	250 9.84	13.5 .53	M20x42	59 2.32	A16x10x70
P921/P922	225 8.86	212 8.35	180 7.086	+0.000/-0.025 +0.000/-0.001	17 .67	75 +0.021/+0.002	250 9.84	10 .39	22 .87	7 .28	105 4.13	109 4.29	143 5.63	225 8.86	285 11.22	300 11.81	17.5 .69	M20x42	79.5 3.13	A20x12x90

Part No. Explanation

P 4 2 1 S P R 0030 MT C

- P** – "P" Series ServoFit Precision Planetary Gearhead
- 4** – Generation Number
- 2** – No. of Gear Stages (1 = 1 Stage, 2 = 2 Stages)
- 1** – Standard Housing
- S** – Output Shaft with Key
- P** – Shaft — no Key
- R** – Reinforced Bearings-Radial
- R** – Reinforced Bearings-Axial
- R** – Normal Bearing
- 0030** – Ratio (0030 = 3.0:1)
- MT** – Motor Plate with TriAdapt Coupling
- C** – Option for ServoCool

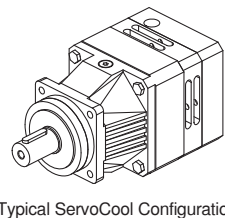
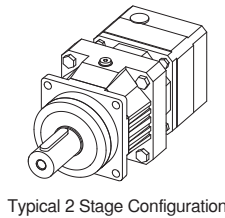


Table No. 2

Unit	K Dimension				
	Standard		ServoCool		
	mm	inches	Unit	mm	inches
P221	94.5	3.72	—	—	—
P222	126.5	4.98	—	—	—
P321	135	5.31	—	—	—
P322	158.5	6.24	—	—	—
P421	153	6.02	P421_C	176.5	6.95
P422	200.5	7.89	—	—	—
P521	193	7.60	P521_C	221	8.70
P522	242.5	9.55	P522_C	266	10.47
P721	242	9.53	P721_C	272	10.71
P722	294	11.57	P722_C	322	12.68
P821	283	11.14	P821_C	331	13.03
P822	350.5	13.80	P822_C	380.5	14.98
P921	353	13.89	P921_C	418	16.45
P922	441	17.36	P922_C	489	19.25

When ordering a planetary gearhead, specify the motor manufacturer and part number, provide the motor drawing with dimensions, or specify the motor mounting dimensions. (See Page 229.)