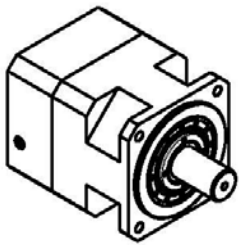
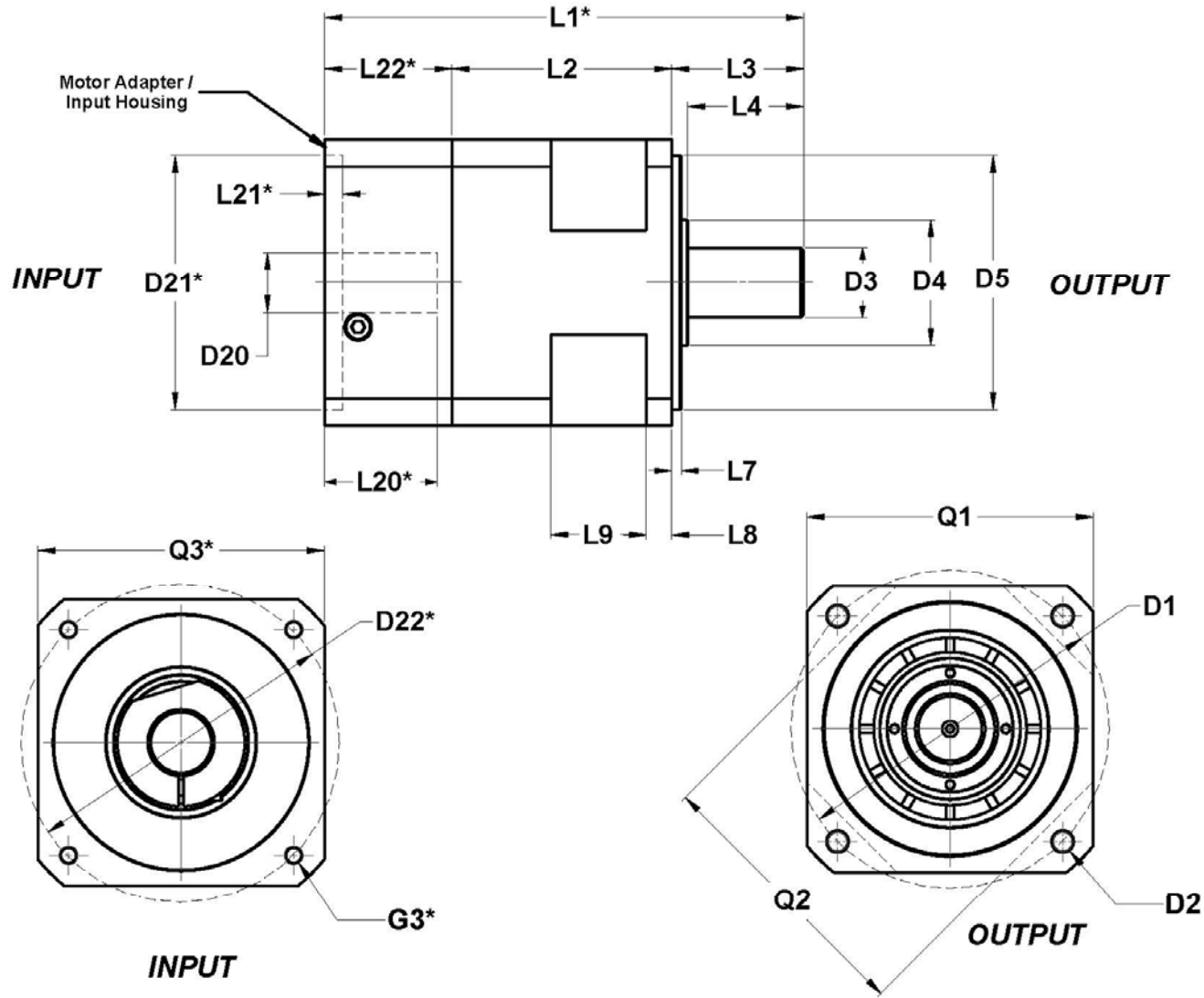




PLS
 High Precision Planetary Servo Gearhead
 With Standard Neugart Output Flange



PLS series with Neugart standard output flange

PLS 70 PLS 90 PLS 115 PLS 142 PLS 190





PLS

High Precision Planetary Servo Gearhead

With Standard Neugart Output Flange



DIMENSIONS mm (in.)		PLS 70	PLS 90	PLS 115	PLS 142	PLS 190
D1	Output flange bolt circle	75 (2.953)	100 (3.947)	130 (5.118)	165 (6.496)	215 (8.465)
D2	Output flange bolt-hole diam.	4	5.5 (0.217)	6.5 (0.256)	8.5 (0.335)	11 (0.433)
D3	Output shaft diameter	h7	19 (0.748)	22 (0.866)	32 (1.259)	40 (1.575)
D4	Shaft collar diameter		32.5 (1.279)	37.5 (1.476)	42.5 (1.673)	62.5 (2.461)
D5	Output flange pilot diameter	h7	60 (2.362)	80 (3.150)	110 (4.331)	130 (5.118)
Q1	Housing square		70 (2.756)	90 (3.543)	115 (4.527)	142 (5.590)
Q2	Housing at the recess		64 (2.519)	87 (3.425)	115 (4.527)	140 (5.511)
L2	Main housing length 1-Stage		62.5 (2.460)	69 (2.716)	77.5 (3.051)	102 (4.015)
	2-Stage		86 (3.385)	97.5 (3.838)	111 (4.370)	143 (5.629)
L3	Shaft length (to mounting face)		32 (1.259)	41.5 (1.633)	64.5 (2.539)	87 (3.425)
L4	Shaft length (to collar)		28 (1.102)	36 (1.417)	58 (2.283)	80 (3.149)
L7	Pilot length		3 (0.118)	3 (0.118)	4 (0.157)	5 (0.196)
L8	Flange thickness		7 (0.275)	8 (0.314)	14 (0.551)	20 (0.787)
L9	Recess width		23 (0.905)	30 (1.181)	34 (1.338)	52 (2.047)
D20	Maximum input pinion bore ⁽¹⁾		14 (.551)	19 (0.748)	24 (0.944)	35 (1.377)
Available standard bushings ⁽¹⁾ mm		6; 6.35; 7; 8; 9; 9.525; 10; 11; 12; 12.7;	9.525; 10; 11; 12; 12.7; 14; 15.87; 16;	11; 12.7; 14; 15.875; 16; 19; 19.05; 22; 22.22;	19; 22; 24; 28; 28.575; 32;	24; 28; 32; 35; 38; 42;
		inch	.236; .250; .276; .315; .354; .375; .394; .433; .472; .500;	.375; .394; .433; .472; .500; .551; .625; .630;	.433; .500; .551; .625; .630; .748; .750; .866; .875;	.748; .866; .944; 1.102; 1.125; 1.378; 1.496; 1.653;
Motor dependent dimensions: D21*, D22*, L1*, L20*, L21*, L22*, G3*, Q3*		Adapter / Input Housing dimensions and unit overall length depend on motor shaft geometry, motor flange style, and motor flange dimensions. A motor-specific adapter / input housing is supplied with every gearhead.				
L22* - dimension calculation L22* Tolerance: +5 / - 0.0 (+ 0.196 / - 0.0)		Determine L22* calc = motor shaft length + Δ L , if L22* calc ≤ L22* minimum → L22* = L22* minimum + Tolerance if L22* calc > L22* minimum → L22* = L22* calc + Tolerance				
Δ L		6.5 (0.256)	10 (0.394)	6 (0.236)	14.5 (0.571)	13.2 (0.519)
L22* minimum		29.5 (1.161)	40 (1.575)	46 (1.811)	64.5 (2.540)	73.2 (2.894)