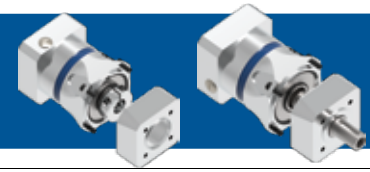




EPL SERIES: EPL-U

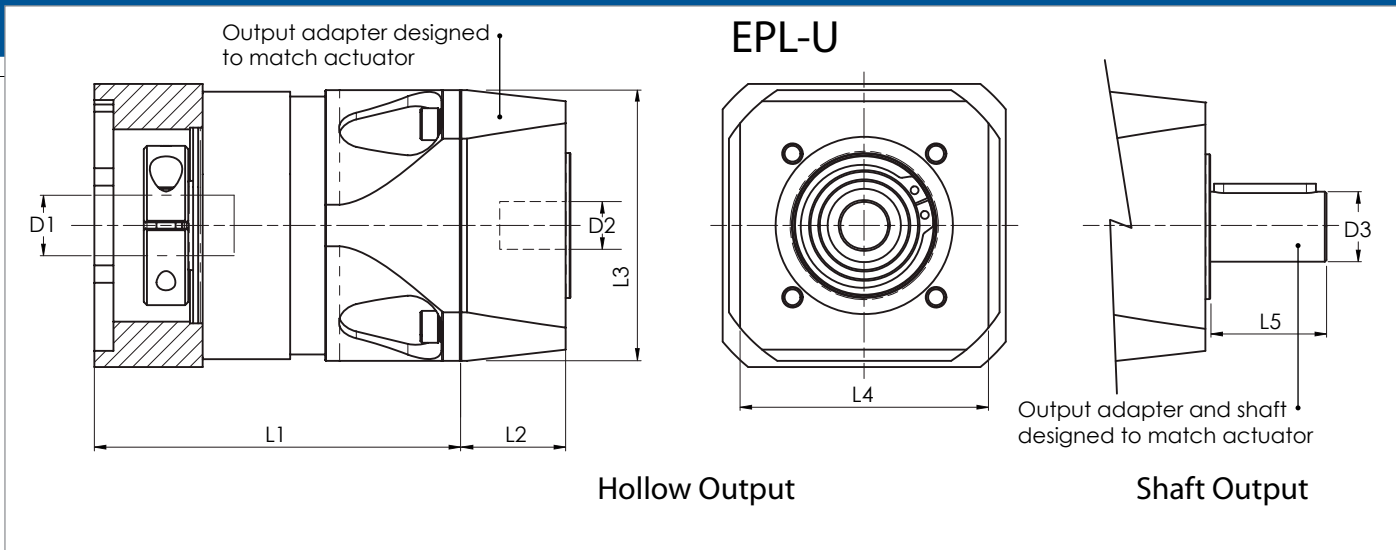


The EPL-U is designed to drive linear actuators with an integral mounting plate and hollow or shaft output

- Hollow output to mount to shaft-input actuators (*replaces the EPL-H*)
- Shaft output to mount to hollow-input actuators

EPL-U Series		50	64	84	118	
Stock Ratios		3, 5, 7, 10, 25, 50, 100 (Standard Input)				
All Ratios Available		1-stage: 3, 4, 5, 7, 10 2-stage: 12, 16, 20, 25, 35, 40, 50, 70, 100 3-stage: 120, 160, 200, 250, 350, 490, 700, 1000 (Consult GAM for other ratios)				
Nominal Output Torque (T_{2n})	Nm (lb-in)	3:1	5 (44)	20 (177)	40 (354)	100 (885)
		4, 5, 7:1	6.5 (58)	26 (230)	54 (478)	120 (1062)
		10, 100, 1000:1	5 (44)	16 (142)	40 (354)	105 (929)
		12:1	14 (124)	36 (319)	80 (708)	170 (1505)
		all other ratios	16 (142)	42 (372)	100 (885)	210 (1859)
Max Acceleration Output Torque (T_{2a})	Nm (lb-in)	3:1	10 (89)	36 (319)	70 (620)	180 (1593)
		4, 5, 7:1	13 (115)	44 (389)	100 (885)	200 (1770)
		10, 100, 1000:1	10 (89)	24 (212)	75 (664)	180 (1593)
		12:1	17.5 (155)	45 (398)	100 (885)	215 (1903)
		all other ratios	20 (177)	52 (460)	125 (1106)	255 (2257)
Nominal Input Speed (n_1)	RPM	-	3500	3500	3000	2500
Max Input Speed (n_{1max})		-	6000	6000	6000	5000
Standard Output Backlash* (j)	arcmin	1-stage	<16	<10	<10	<8
		2-stage	<20	<14	<14	<12
		3-stage	-	<18	<18	<16
Weight (m)	kg (lbs)	1-stage	0.4 (0.9)	1.0 (2.2)	2.3 (5.1)	5.8 (12.8)
		2-stage	0.5 (1.1)	1.3 (2.9)	3.1 (6.8)	7.9 (17.4)
		3-stage	-	1.6 (3.5)	3.9 (8.6)	10.0 (22.1)
Noise Level (L_{pa})	dB(A)	-	<64	<66	<68	<70
Mass Moment of Inertia (J_1)	kg cm ² (lb-in ²)	3:1	0.06 (0.021)	0.45 (0.154)	1.37 (0.468)	6.54 (2.235)
		4:1, 12:1, 16:1	0.04 (0.014)	0.38 (0.130)	1.14 (0.390)	4.8 (1.640)
		5:1, 20:1, 25:1	0.04 (0.014)	0.36 (0.123)	1.05 (0.359)	4.05 (1.384)
		7:1, 35:1	0.04 (0.014)	0.35 (0.120)	0.97 (0.331)	3.4 (1.162)
		10:1, 40:1 - 100:1	0.04 (0.014)	0.34 (0.116)	0.93 (0.318)	3.1 (1.059)
		120:1 - 1000:1	(0.000)	0.34 (0.116)	0.93 (0.318)	3.12 (1.066)
Efficiency at Load	1-stage: 94% 2-stage: 92% 3-stage: 90%					
Service Life	> 30,000 hours					
Lubrication	Mineral Grease EP0					
Protection Rating	IP 64					
Operating Temperature Range	-20°C to 90°C					

*See page 224 for definition



EPL-U Series		50		64		84		118	
		mm	(in)	mm	(in)	mm	(in)	mm	(in)
D1 max standard*	motor shaft diameter	11	(0.433)	14	(0.551)	19	(0.748)	24	(0.945)
D1 max available*		14	(0.551)	16	(0.63)	24	(0.945)	32	(1.26)
D2 min	output hollow shaft diameter	6	(0.236)	8	(0.315)	10	(0.394)	12	(0.472)
D2 max		25	(0.984)	35	(1.378)	50	(1.969)	80	(3.150)
D3 min	output shaft diameter	12	(0.472)	14	(0.551)	20	(0.787)	25	(0.984)
D3 max		25	(0.984)	35	(1.378)	55	(2.165)	70	(2.756)
L1 1-stage**	overall gearbox length	74.5	(2.933)	90.5	(3.563)	115	(4.528)	137.5	(5.413)
L1 2-stage**		90.5	(3.563)	112.5	(4.429)	148	(5.827)	178	(7.008)
L1 3-stage**		106.5	(4.193)	134.5	(5.295)	181	(7.126)	218.5	(8.602)
L2	output adapter length	dimensions determined by actuator used in application							
L3	housing size (square)	50	(1.969)	64	(2.52)	85	(3.346)	118	(4.646)
L4	output mounting face	dimensions determined by actuator used in application							
L5	output shaft length	dimensions determined by actuator used in application							

* for larger motor shaft diameters, please contact GAM ** dimension varies depending on motor

TYPE CODES FOR EPL SERIES (EPL-U)

