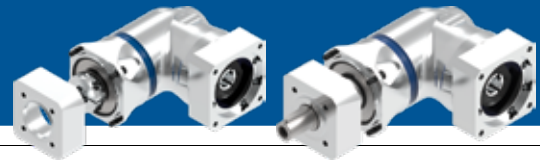




▶ EPR SERIES: EPR-U

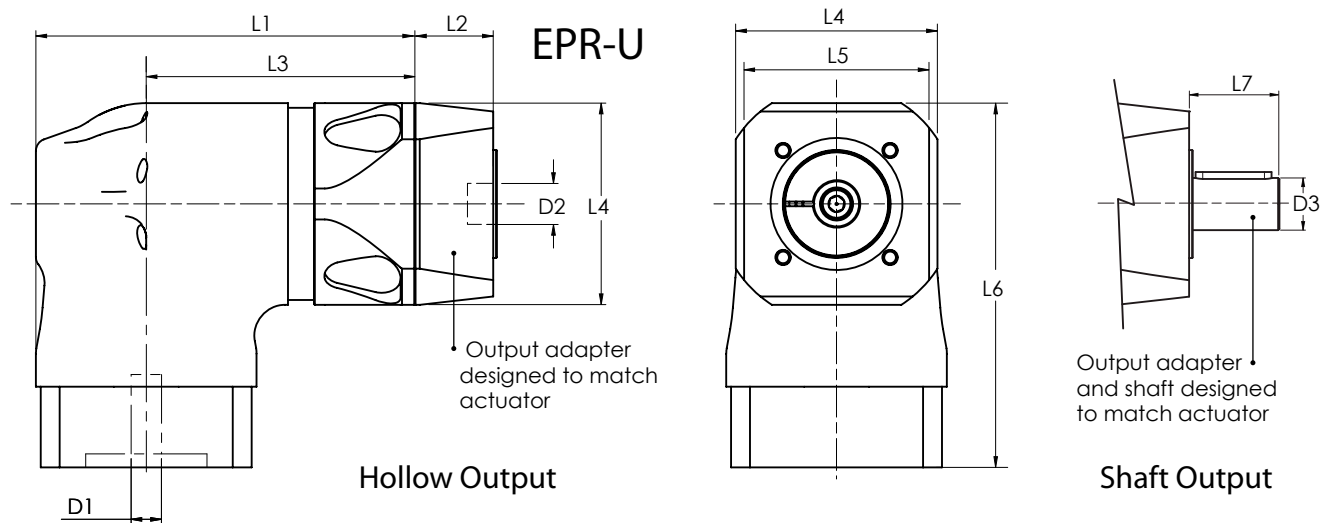


The EPR-U is designed to drive linear actuators with an integral mounting plate and hollow or shaft output

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

EPR-U Series		64	84	118	
Stock Ratios		3, 5, 7, 10, 25, 50, 100 (Standard Input)			
All Ratios Available		1-Stage Planetary: 3, 4, 5, 7, 10 2-Stage Planetary: 12, 16, 20, 25, 35, 40, 50, 70, 100 3-Stage Planetary: 120, 160, 200, 250, 350, 490, 700, 1000 (Consult GAM for other ratios)			
Nominal Output Torque (T_{2n})	Nm (lb-in)	3:1	16 (142)	33 (292)	82 (726)
		4, 5, 7:1	22 (195)	45 (398)	101 (894)
		10, 100, 1000:1	14 (124)	34 (301)	90 (797)
		all other ratios	30 (266)	71 (628)	149 (1319)
Max Acceleration Output Torque (T_{2B})	Nm (lb-in)	3:1	30 (266)	57 (504)	148 (1310)
		4, 5, 7:1	37 (327)	84 (743)	168 (1487)
		10, 100, 1000:1	21 (186)	65 (575)	155 (1372)
		all other ratios	37 (327)	89 (788)	181 (1602)
Emergency Output Torque (T_{2not})	Nm (lb-in)	3:1	72 (637)	160 (1416)	200 (1770)
		4, 5, 7:1	84 (743)	216 (1912)	480 (4248)
		10, 100, 1000:1	62 (549)	160 (1416)	410 (3629)
		all other ratios	84 (743)	216 (1912)	480 (4248)
Nominal Speed (n_{1n})	RPM	-	3500	3000	2500
Max Speed (n_{1max})		-	6000	6000	5000
Standard Output Backlash* (j)	arcmin	1-stage	≤12	≤12	≤10
		2-stage	≤14	≤14	≤12
		3-stage	≤15	≤15	≤12
Weight (m)	kg (lbs)	1-stage	3.0 (6.6)	5.6 (12)	15 (33)
		2-stage	3.3 (7.3)	6.4 (14)	17 (37)
		3-stage	3.6 (7.9)	7.2 (16)	19 (42)
Noise Level (L_{pA})	dB(A)	-	≤75	≤78	≤78
Mass Moment of Inertia (J_1)	kg cm ² (lb-in ²)	3:1	0.95 (0.32)	5.4 (1.8)	22 (7.5)
		4:1, 12:1, 16:1	0.88 (0.30)	5.1 (1.7)	20 (6.8)
		5:1, 20:1, 25:1	0.86 (0.29)	5.1 (1.7)	20 (6.8)
		7:1, 35:1	0.85 (0.29)	5.0 (1.7)	19 (6.5)
		10:1, 40:1 - 100:1	0.84 (0.29)	4.9 (1.7)	19 (6.5)
		120:1 - 1000:1	0.84 (0.29)	4.9 (1.7)	19 (6.5)
Efficiency at Load	1-stage: 92% 2-stage: 90% 3-stage: 88%				
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 definitions

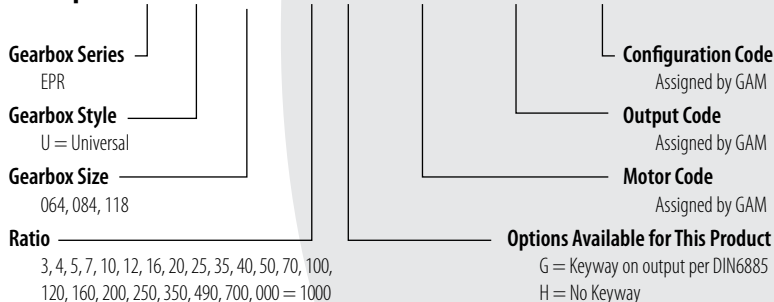


EPR-U Series		64		84		118	
		mm	(in)	mm	(in)	mm	(in)
D1 max standard*	motor shaft diameter	14	(0.551)	19	(0.748)	24	(0.945)
D1 max available*		16	(0.630)	24	(0.945)	32	(1.260)
D2 min	output hollow shaft diameter	8	(0.315)	10	(0.394)	12	(0.472)
D2 max		35	(1.378)	50	(1.969)	80	(3.150)
D3 min	output shaft diameter	14	(0.551)	20	(0.787)	25	(0.984)
D3 max		35	(1.378)	55	(2.165)	70	(2.756)
L1 1-stage**	gearbox length	118	(4.646)	160	(6.299)	205	(8.071)
L1 2-stage**		140	(5.512)	193	(7.598)	245.5	(9.665)
L1 3-stage**		162	(6.378)	226	(8.898)	286	(11.260)
L2	output adapter length	dimensions determined by actuator used in application					
L3 1-stage**	gearbox length to input center line	85.5	(3.366)	113	(4.449)	146	(5.748)
L3 2-stage**		107.5	(4.232)	146	(5.748)	186.5	(7.343)
L3 3-stage**		129.5	(5.098)	179	(7.047)	227	(8.937)
L4	housing size (square)	64	(2.520)	85	(3.346)	118	(4.646)
L5	output mounting face	dimensions determined by actuator used in application					
L6	gearbox height	105	(4.134)	153.5	(6.043)	188.5	(7.421)
L7	output shaft length	dimensions determined by actuator used in application					

*for larger motor shaft diameters, please contact GAM ** depending on the motor, value can vary

TYPE CODES FOR EPR SERIES (EPR-U)

Example: EPR - U - 084 - 005 H - M0000 - H0000 - C0000



Tolerances (mm)		
Over	To (incl.)	H7
6	10	+0.015 0
10	18	+0.018 0
18	30	+0.021 0
30	50	+0.025 0
50	80	+0.030 0
80	120	+0.035 0
120	180	+0.040 0