



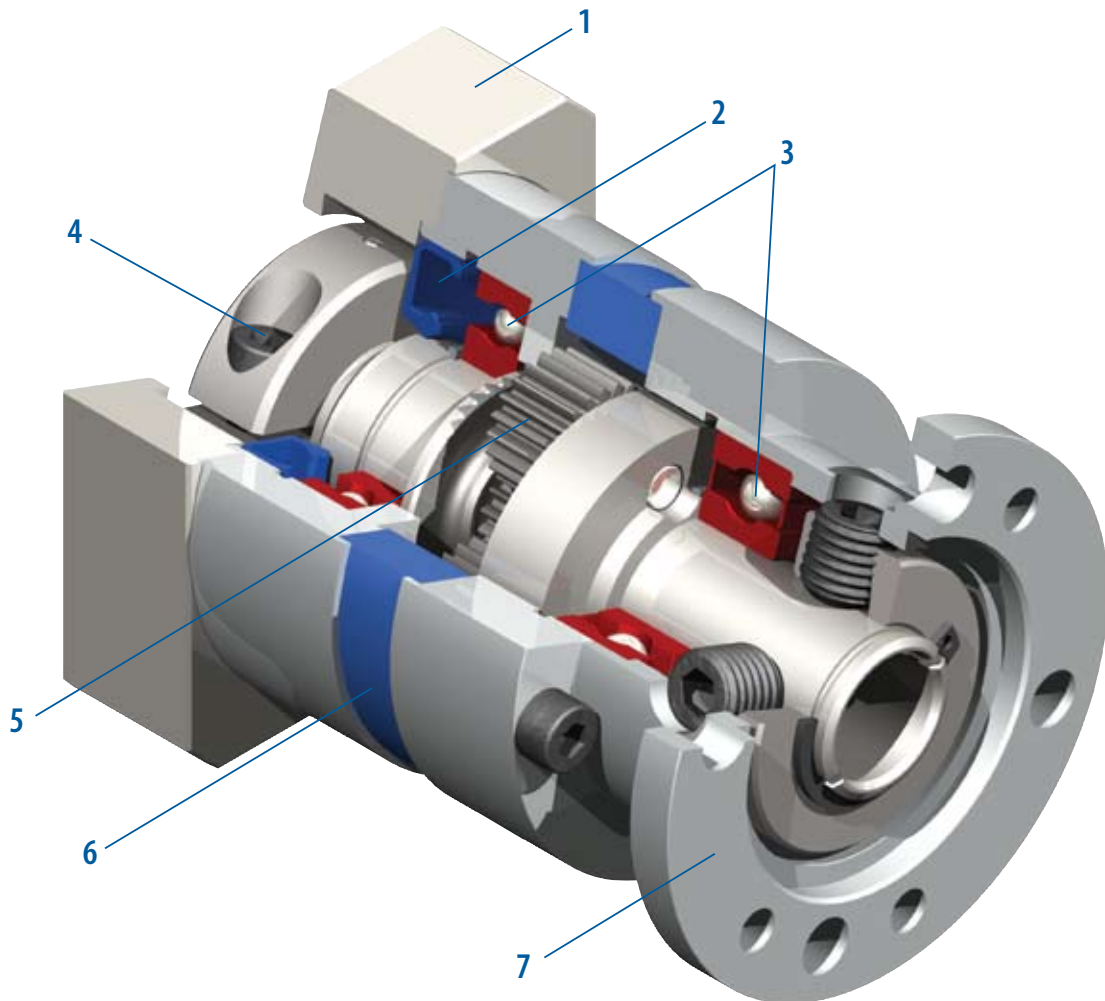
► PRECISION LINEAR MOUNT: EPL/RPL SERIES

GAM can. Just ask!

If you don't see exactly what you need, let us know. We can modify the EPL/RPL Series gearboxes to meet your needs. Page 3 provides a list of commonly requested modifications to give you a feel for our capabilities.

The Linear Mount Series takes the hassle out of mounting your motor or gearbox to a linear ball screw or belt module. The hollow output on the gearbox eliminates the need for any additional couplings or mounting adapters. GAM provides all the adapters and hardware required for the gearbox to mount to the slide and your motor. See LSK Section for motor mounts used with linear modules.

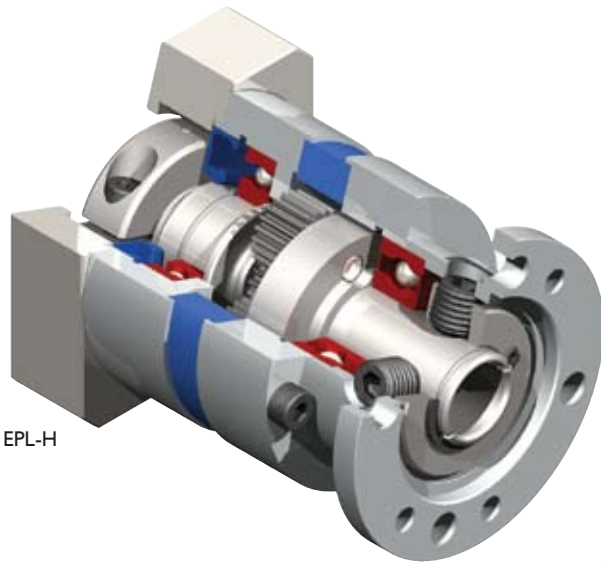
- Low backlash
- Precision gears
- Lightweight
- Lubricated for life
- Mounts to any off the shelf linear belt or ball screw modules
- All adapters and hardware included



Just tell us what motor and what module you want to mount and GAM will take care of all the engineering.

- | | | |
|--|---|---|
| 1. Adapter Plate
(Customized adapter plates for quick and easy motor mounting) | 3. Ball Bearings
(Single ball bearing in the EPL-H-064; dual ball bearings in all other sizes and styles) | 6. Ring Gear
(Ring gear incorporated into housing) |
| 2. Seals
(Protective seals to isolate the gearbox) | 4. Input Clamping Element | 7. Output Face
(Ready to mount to belt or ball screw modules) |
| | 5. Planet Gears
(Precision honed gears) | |

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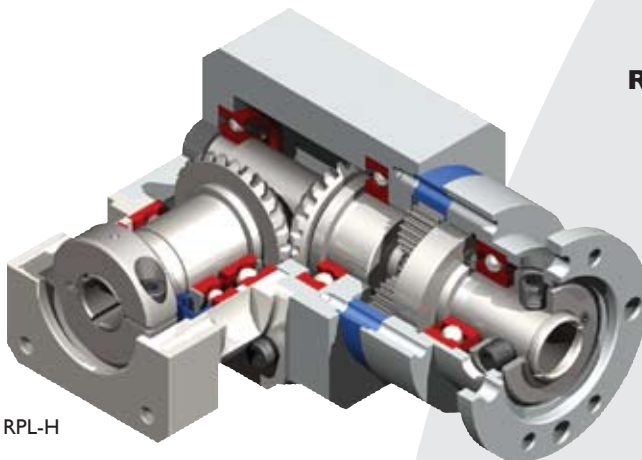
EPL-H

EPL-H

- Hollow output with zero-backlash clamping ring
- A quick, simple, low-cost solution used to mount onto any “off the shelf” linear belt or ball screw modules



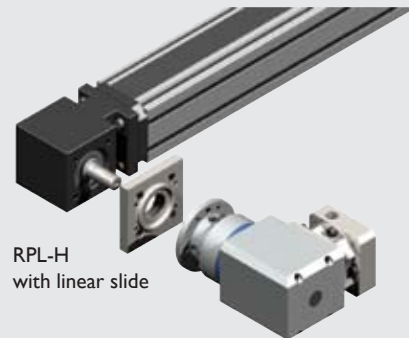
EPL-H with
Linear slide



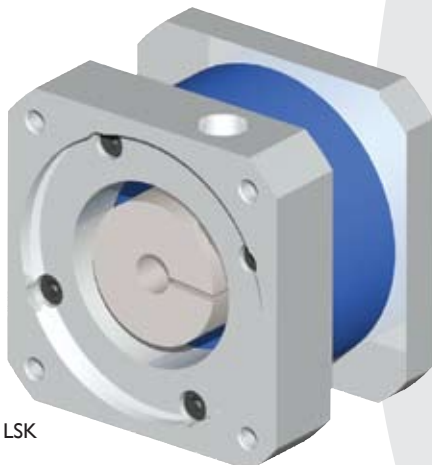
RPL-H

RPL-H

- Hollow output with zero-backlash clamping ring
- A quick, simple, low-cost solution used to mount onto any “off the shelf” linear belt or ball screw modules



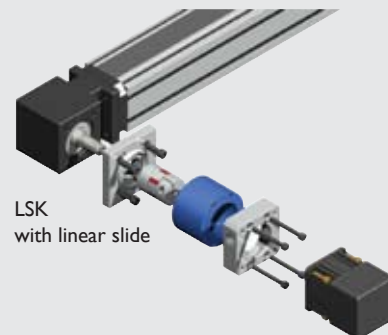
RPL-H
with linear slide



LSK

LSK

- Bellows or elastomer coupling connection
- A quick, simple, low-cost solution used to mount onto any “off the shelf” linear belt or ball screw modules

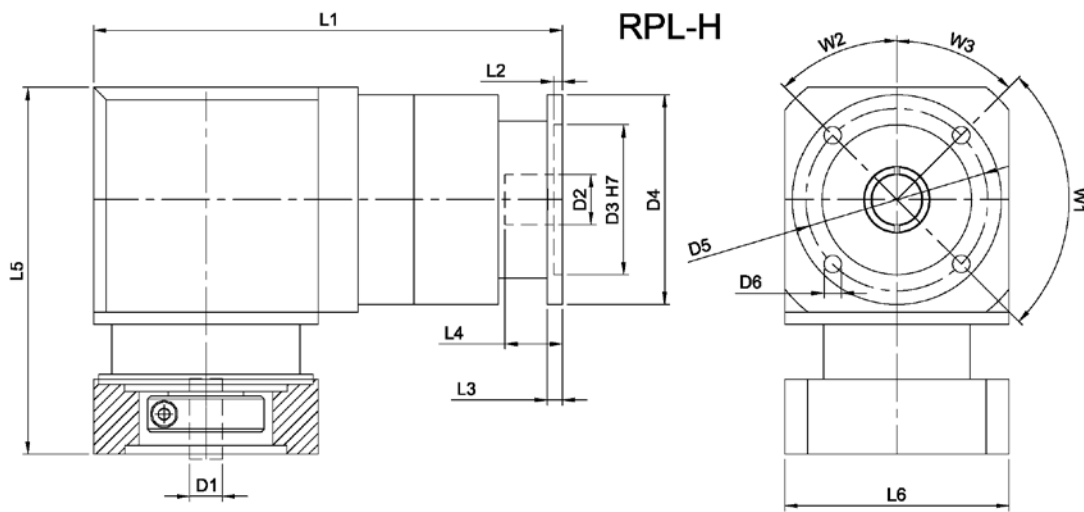


LSK
with linear slide



RPL Series			64		84		118	
Stock Ratios		5, 10, 25, 50, 100						
Ratios Available		3, 5, 7, 10, 25, 40, 50, 70, 100 For other ratios, consult GAM.						
Nominal Output Torque (T _{2n})	Nm (lb-in)	100:1, 1000:1	14	(124)	40	(354)	100	(885)
		all other ratios	36	(319)	64	(566)	165	(1460)
Max Accel Output Torque (T _{2B})	Nm (lb-in)	100:1, 1000:1	25	(221)	60	(531)	150	(1328)
		all other ratios	55	(487)	135	(1195)	255	(2257)
Nominal Input Speed (n _{1n})	RPM	-	3500		3000		3000	
Max Input Speed (n _{1max})		-	5000		5000		4500	
Standard Output Backlash (j)	arcmin	12:1 - 100:1	< 15		< 14		< 12	
		120:1 - 1000:1	< 20		< 18		< 16	
Torsional Stiffness (C ₁₂₁)	Nm/arcmin (lb-in/arcmin)	100:1	1.3	(11.5)	3.4	(30.1)	8.3	(73.5)
		70:1	1.7	(15)	4.8	(42.5)	13.6	(120.4)
		all other ratios	2.4	(21.2)	7.1	(62.8)	17.2	(152.2)
Weight (m)	kg (lbs)	-	2.8	(6.2)	6.6	(14.6)	16.1	(35.5)
Noise Level (L _{pk})	dB(A)	-	< 68		< 70		< 72	
Mass Moment of Inertia (J ₁)	kg cm ² (lb-in ²)	25:1	1.35	(0.46)	3.85	(1.31)	8.01	(2.72)
		all other ratios	1.31	(0.45)	3.75	(1.28)	7.94	(2.7)
Efficiency at Load		> 85%						
Service Life		> 10,000 hours						
Lubrication		Mineral Grease EP0						
Protection Rating		IP 64						
Operating Temperature Range		-20°C to 90°C						

1) Load applied at center of output shaft @100 RPM



RPL Series		64		84		118	
		mm	(in)	mm	(in)	mm	(in)
D1 max	motor shaft diameter	14	(0.551)	19	(0.748)	22	(0.866)
D2 max	output hollow diameter	16	(0.63)	20	(0.787)	30	(1.181)
D3 H7	pilot diameter	44	(1.732)	60	(2.362)	80	(3.15)
D4	flange diameter	70	(2.756)	84	(3.307)	118	(4.646)
D5	bolt circle	55.5	(2.185)	73	(2.874)	105	(4.134)
D6	mounting holes	M5x12		M6x14		M8x18	
L1 2-STAGE*	gearbox total length	161	(6.34)	220	(8.66)	282.5	(11.12)
L1 2-STAGE*		149	(5.866)	188	(7.402)	205	(8.071)
L1 3-STAGE*		169	(6.654)	221	(8.701)	245.5	(9.665)
L2	pilot height	3.5	(0.138)	3.5	(0.138)	3.5	(0.138)
L3	flange thickness	6	(0.236)	6	(0.236)	10	(0.394)
L4	output shaft engagement	28	(1.102)	23	(0.906)	26	(1.024)
L5	gearbox total width	120	(4.724)	147	(5.787)	165	(6.496)
L6	adapter size	70	(2.756)	90	(3.543)	90	(3.543)
W1	bolt hole spacing	125°		4x 90°		4x 90°	
W2	angle	27.5°		67.5°		67.5°	
W3	angle displacement	27.5°		22.5°		22.5°	

* depending on the motor, value can vary ** NEMA and shaft output available; contact GAM for data

TYPE CODES FOR EPL/RPL SERIES (RPL-H)

Example: RPL - H - 084 - 025 H - [115 - 201] - S111

Gearbox Series
Right Angle Planetary

Gearbox Style
H = Hollow Output Shaft

Gearbox Size
064, 084, 118

Ratio
3, 4, 5, 7, 10, 25, 40, 50, 70, 100

Special Options
Assigned by GAM
Motor Mount Kit
Assigned by GAM

Options Available for This Product
H = Smooth Shaft

Tolerances (mm)	
Size	H7
Over 6	+0.015
Thru 10	0
Over 10	+0.018
Thru 18	0
Over 18	+0.021
Thru 30	0
Over 30	+0.025
Thru 50	0
Over 50	+0.030
Thru 80	0