

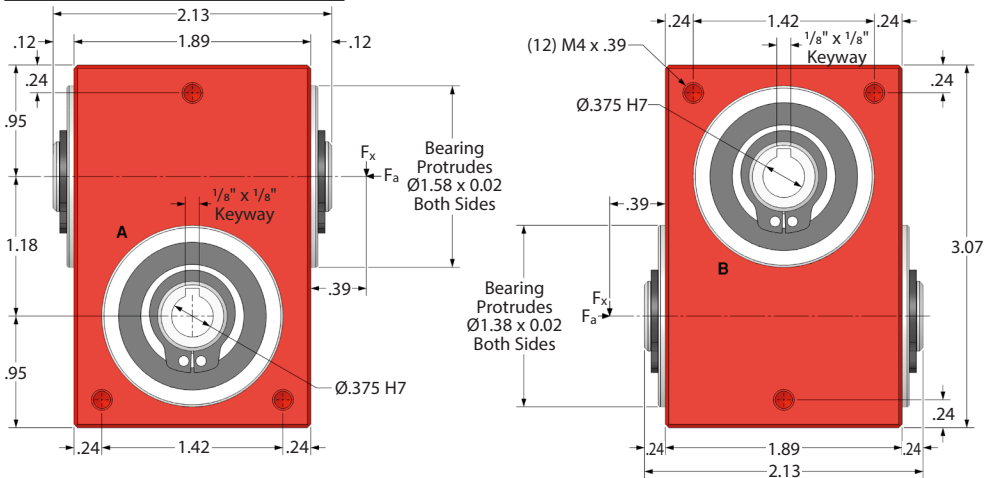
EA30**e-cad**
Drawings
Available

GEARBOXES

Right Angle Helical Reducers

Heavy Duty 0.375 Dia. Bores 13.3 - 79.7 lbf.in **1:1 - 40:1**

Testing in your application is necessary.

You will need to assess duty cycles and confirm suitability with your own calculations.
Figures listed are for guidance only.

Part Number	Ratio	Type	Input Face	Efficiency at 1000 Rpm	Max Input Speed	Reflected Inertia at Input (lb.in ²) Self	Locking Output
EA30-1	1:1	Helical	B	90%	4,000	9.80×10^{-2}	✗
EA30-2	2:1	Helical	A	88%	4,000	4.65×10^{-2}	✗
EA30-3	3:1	Helical	A	87%	4,000	3.66×10^{-2}	✗
EA30-4	4:1	Helical	A	86%	4,000	3.53×10^{-2}	✗
EA30-5	5:1	Helical	A	80%	4,000	3.20×10^{-2}	✗
EA30-8	8:1	Wormwheel	A	80%	1,500	3.81×10^{-2}	✗
EA30-10	10:1	Wormwheel	A	73%	1,500	3.78×10^{-2}	✗
EA30-20	20:1	Wormwheel	A	67%	1,500	3.74×10^{-2}	✓
EA30-40	40:1	Wormwheel	A	60%	1,500	3.73×10^{-2}	✓
EA30-SP	1:1 - 40:1	Special Ratios: Replace SP with required ratio					
EA30-SPA	1:1 - 40:1	Low Backlash ≤30': Replace SP with required ratio					
EA30-SPLH	1:1 - 40:1	Lefthand Helicals: Replace SP with required ratio					

Performance

Weight: 1.59 lb (Approx.).**Standard Backlash:** ≈1°. **Low Backlash:** ≤30'.**Greased for Life:** Shell Gadus S2 V220AD 2.

LH – Left hand helix reverses output rotation.

Max. Overhung Loads at 1000 Rpm: Overhung Load (F_o) = 44.09 lb.**Max. Thrust Loads at 1000 Rpm:** Thrust Load (F_a) = 33.07 lb.**Self Locking Output:** Subject to ratio and only applies in static condition.

Amount of locking effect may vary due to manufacturing processes.

Modifications and specials are available. Please contact Technical Sales department.

Output Torque lbf.in

Rpm Input	Reduction Ratio									
	1:1	2:1	3:1	4:1	5:1	8:1	10:1	20:1	40:1	
3000	13.3	13.3	13.3	13.3	13.3	-	-	-	-	
2000	17.7	17.7	17.7	17.7	17.7	-	-	-	-	
1000	22.1	22.1	22.1	22.1	22.1	31.9	37.2	41.6	44.3	
500	26.6	26.6	26.6	26.6	26.6	43.4	46.9	49.6	53.1	
100	35.4	35.4	35.4	35.4	35.4	57.5	62.0	62.8	64.6	
50	39.8	39.8	39.8	39.8	39.8	69.9	74.3	75.2	76.1	
10	44.3	44.3	44.3	44.3	44.3	75.2	77.0	78.8	79.7	

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