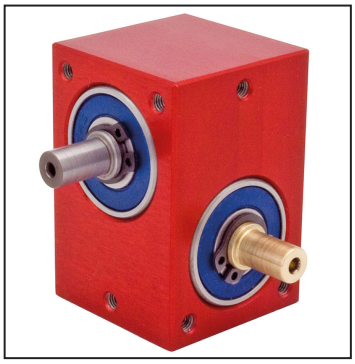
EA20

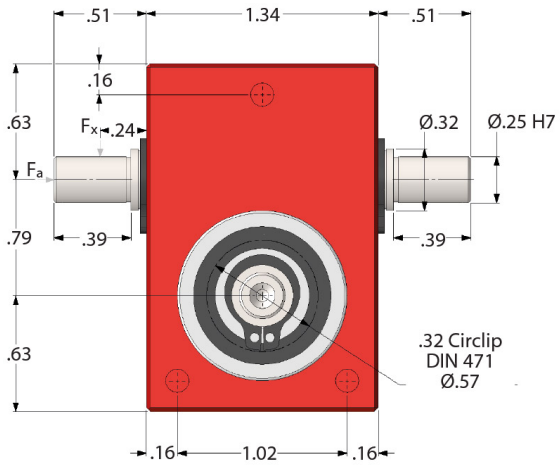
GEARBOXES

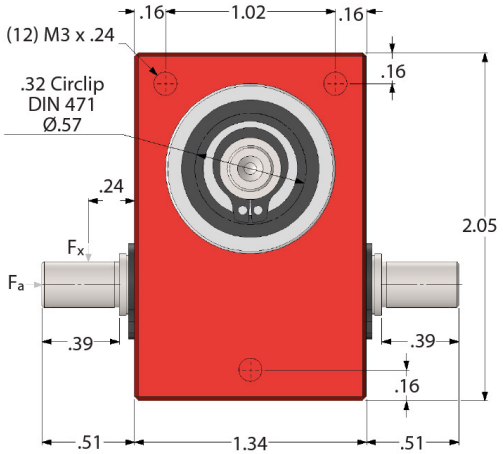
Right Angle Helical Reducers

Heavy Duty 0.25 Dia. Shafts 5.3 – 34 lbf.in **1:1 - 40:1**

EA20







Part Number	Ratio	Type	Input Face	Efficiency at 1000 Rpm	Max Input Speed	Reflected Inertia at Input (lb.in²)	Self Locking Output
EA20-1	1:1	Helical	A	88%	4,000	1.29×10^{-2}	✗
EA20-2	2:1	Helical	A	86%	4,000	8.03×10^{-3}	✗
EA20-3	3:1	Helical	A	85%	4,000	6.87×10^{-3}	✗
EA20-4	4:1	Helical	A	84%	4,000	6.79×10^{-3}	✗
EA20-5	5:1	Helical	A	80%	4,000	5.28×10^{-3}	✗
EA20-8	8:1	Wormwheel	A	80%	2,000	5.54×10^{-3}	✗
EA20-10	10:1	Wormwheel	A	73%	2,000	5.50×10^{-3}	✗
EA20-20	20:1	Wormwheel	A	67%	2,000	5.44×10^{-3}	✓
EA20-40	40:1	Wormwheel	A	60%	2,000	5.43×10^{-3}	✓
EA20-SP	1:1 - 40:1	Special Ratios : Replace **SP** with required ratio					
EA20-SPA	1:1 - 40:1	Low Backlash ≤30' : Replace **SP** with required ratio					
EA20-SPLH	1:1 - 40:1	Left Hand Helicals : Replace **SP** with required ratio					

Weight: 0.56 lb. Greased for Life: Shell Gadus S2 V220AD 2.
Self Locking Output: Subject to ratio and only applies in static condition.
Amount of locking effect may vary due to manufacturing processes.
Max. Overhung Loads at 1000 Rpm: Overhung Load (F_X) = 33.07 lb.
Max. Thrust Loads at 1000 Rpm: Thrust Load (F_a) = 22.05 lb.
Standard Backlash: ≈1°.

Special shaft sizes and other modifications are available.
Please contact Technical Sales department.

Testing in your application is necessary.
You will need to assess duty cycles and confirm
gearbox suitability with your own calculations.
All figures listed are to be used for guidance only.

Output Torque lbf.in

RPM	Reduction Ratio								
Input	1:1	2:1	3:1	4:1	5:1	8:1	10:1	20:1	40:1
3000	5.3	5.3	5.3	5.3	5.3	-	-	-	-
2000	6.2	6.2	6.2	6.2	6.2	9.3	10.6	12.0	13.5
1000	8.9	8.9	8.9	8.9	8.9	11.6	13.0	14.4	15.9
500	12.4	12.4	12.4	12.4	12.4	17.1	18.4	19.7	21.0
100	15.9	15.9	15.9	15.9	15.9	23.0	23.9	25.0	26.1
50	16.8	16.8	16.8	16.8	16.8	26.1	27.7	29.3	30.1
10	17.7	17.7	17.7	17.7	17.7	32.0	32.8	33.6	34.0

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