

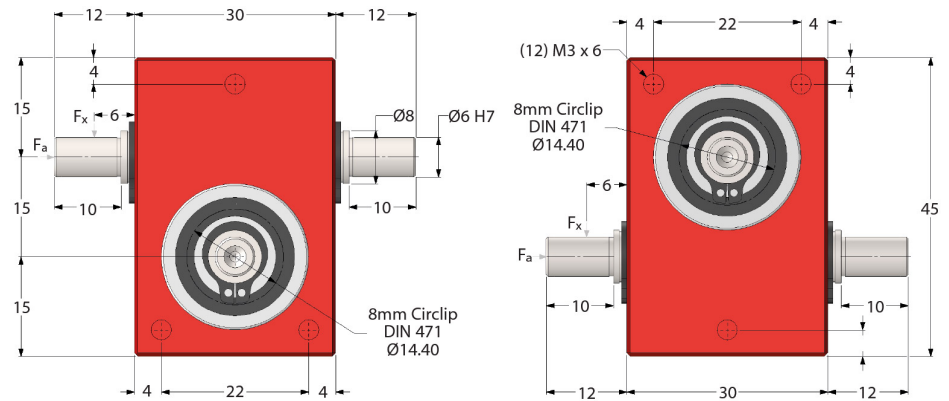
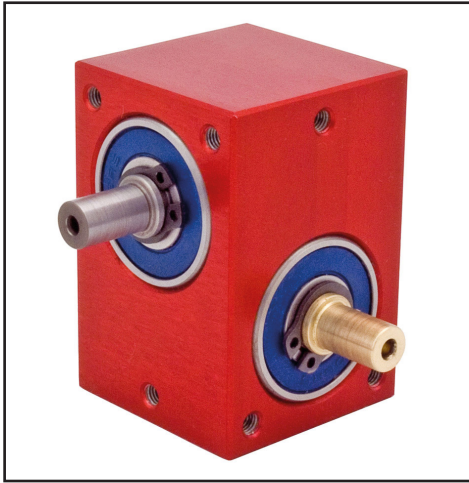
E15

GEARBOXES

E15

Right Angle Helical Reducers

Heavy Duty 6mm Dia. Shafts 0.4 – 2.53 Nm **1:1 - 40:1**



Part Number	Ratio	Type	Input Face	Efficiency at 1000 Rpm	Max Input Speed	Reflected Inertia at Input (kg.m ²) Self	Locking Output	
E15-1	1:1	Helical	A	88%	4,000	3.762 x 10 ⁻⁶	✗	
E15-2	2:1	Helical	A	86%	4,000	2.349 x 10 ⁻⁶	✗	
E15-3	3:1	Helical	A	85%	4,000	2.011 x 10 ⁻⁶	✗	
E15-4	4:1	Helical	A	84%	4,000	1.986 x 10 ⁻⁶	✗	
E15-5	5:1	Helical	A	80%	4,000	1.544 x 10 ⁻⁶	✗	
E15-8	8:1	Wormwheel	A	80%	2,000	1.622 x 10 ⁻⁶	✗	
E15-10	10:1	Wormwheel	A	73%	2,000	1.609 x 10 ⁻⁶	✗	
E15-20	20:1	Wormwheel	A	67%	2,000	1.593 x 10 ⁻⁶	✓	
E15-40	40:1	Wormwheel	A	60%	2,000	1.589 x 10 ⁻⁶	✓	
E15-SP	1:1 - 40:1	Special Ratios : Replace SP with required ratio						
E15-SPA	1:1 - 40:1	Low Backlash ≤30' : Replace SP with required ratio						
E15-SPLH	1:1 - 40:1	Left Hand Helicals : Replace SP with required ratio						

Weight: 0.255 kg. 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) = 15 kg.
 Max. Thrust Loads at 1000 Rpm: Thrust Load (F_a) = 10 kg.
 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 Nm

RPM Input	Reduction Ratio								
	1:1	2:1	3:1	4:1	5:1	8:1	10:1	20:1	40:1
3000	0.40	0.40	0.40	0.40	0.40	-	-	-	-
2000	0.46	0.46	0.46	0.46	0.46	0.69	0.79	0.90	1.00
1000	0.66	0.66	0.66	0.66	0.66	0.86	0.97	1.08	1.19
500	0.92	0.92	0.92	0.92	0.92	1.27	1.37	1.47	1.56
100	1.19	1.19	1.19	1.19	1.19	1.72	1.78	1.87	1.95
50	1.25	1.25	1.25	1.25	1.25	1.95	2.07	2.18	2.24
10	1.32	1.32	1.32	1.32	1.32	2.39	2.44	2.51	2.53

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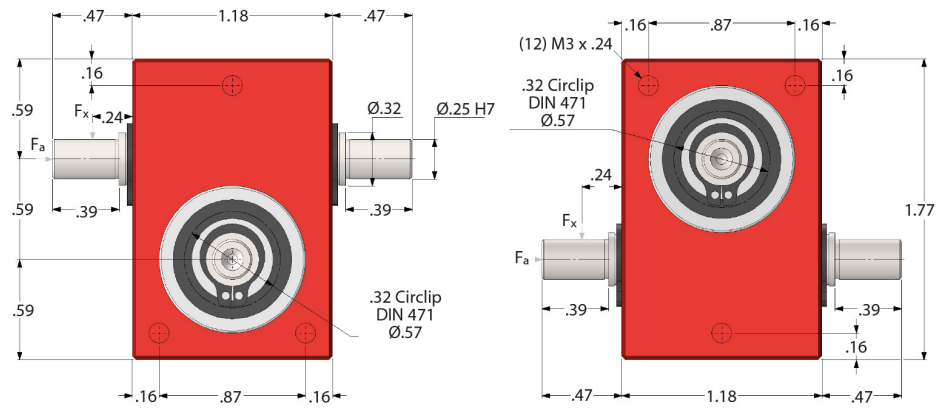
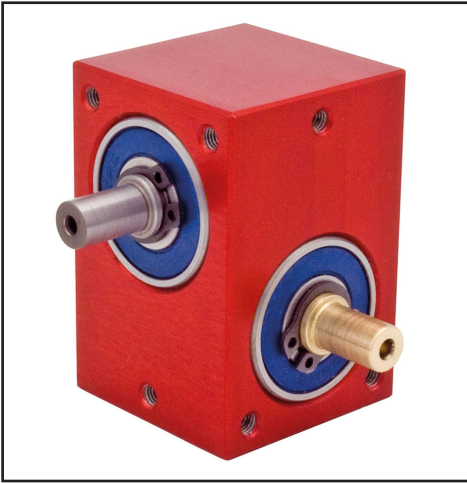
EA15

GEARBOXES

EA15

Right Angle Helical Reducers

Heavy Duty 0.25 Dia. Shafts 3.5 – 22.4 lbf.in **1:1 - 40:1**



Part Number	Ratio	Type	Input Face	Efficiency at 1000 Rpm	Max Input Speed	Reflected Inertia at Input (lb.in ²)	Self Locking Output	
EA15-1	1:1	Helical	A	88%	4,000	1.29 x 10 ⁻²	✗	
EA15-2	2:1	Helical	A	86%	4,000	8.03 x 10 ⁻³	✗	
EA15-3	3:1	Helical	A	85%	4,000	6.87 x 10 ⁻³	✗	
EA15-4	4:1	Helical	A	84%	4,000	6.79 x 10 ⁻³	✗	
EA15-5	5:1	Helical	A	80%	4,000	5.28 x 10 ⁻³	✗	
EA15-8	8:1	Wormwheel	A	80%	2,000	5.54 x 10 ⁻³	✗	
EA15-10	10:1	Wormwheel	A	73%	2,000	5.50 x 10 ⁻³	✗	
EA15-20	20:1	Wormwheel	A	67%	2,000	5.44 x 10 ⁻³	✓	
EA15-40	40:1	Wormwheel	A	60%	2,000	5.43 x 10 ⁻³	✓	
EA15-SP	1:1 - 40:1	Special Ratios : Replace SP with required ratio						
EA15-SPA	1:1 - 40:1	Low Backlash ≤30' : Replace SP with required ratio						
EA15-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 Input	Reduction Ratio								
	1:1	2:1	3:1	4:1	5:1	8:1	10:1	20:1	40:1
3000	3.5	3.5	3.5	3.5	3.5	-	-	-	-
2000	4.1	4.1	4.1	4.1	4.1	6.1	7.0	8.0	8.9
1000	5.8	5.8	5.8	5.8	5.8	7.6	8.6	9.6	10.5
500	8.1	8.1	8.1	8.1	8.1	11.2	12.1	13.0	13.8
100	10.5	10.5	10.5	10.5	10.5	15.2	15.8	16.6	17.3
50	11.1	11.1	11.1	11.1	11.1	17.3	18.3	19.3	19.8
10	11.7	11.7	11.7	11.7	11.7	21.2	21.6	22.2	22.4

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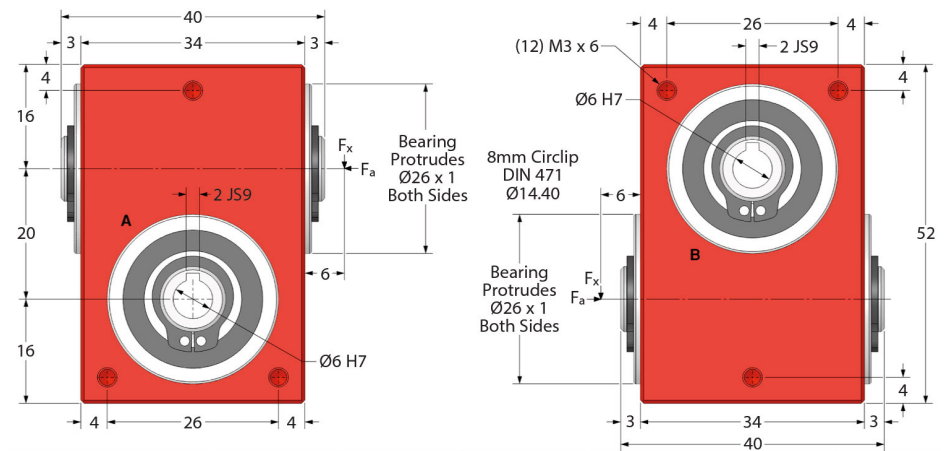
E20

GEARBOXES

E20

Right Angle Helical Reducers

Heavy Duty 6mm Bores 0.6 – 3.84 Nm **1:1 - 40:1**



Part Number	Ratio	Type	Input Face	Efficiency at 1000 Rpm	Max Input Speed	Reflected Inertia at Input (kg.m ²) Self	Self Locking Output
E20-1	1:1	Helical	A	88%	4,000	3.762 x 10 ⁻⁶	✗
E20-2	2:1	Helical	A	86%	4,000	2.349 x 10 ⁻⁶	✗
E20-3	3:1	Helical	A	85%	4,000	2.011 x 10 ⁻⁶	✗
E20-4	4:1	Helical	A	84%	4,000	1.986 x 10 ⁻⁶	✗
E20-5	5:1	Helical	A	80%	4,000	1.544 x 10 ⁻⁶	✗
E20-8	8:1	Wormwheel	A	80%	2,000	1.622 x 10 ⁻⁶	✗
E20-10	10:1	Wormwheel	A	73%	2,000	1.609 x 10 ⁻⁶	✗
E20-20	20:1	Wormwheel	A	67%	2,000	1.593 x 10 ⁻⁶	✓
E20-40	40:1	Wormwheel	A	60%	2,000	1.589 x 10 ⁻⁶	✓
E20-SP	1:1 - 40:1			Special Ratios : Replace SP with required ratio			
E20-SPA	1:1 - 40:1			Low Backlash ≤30' : Replace SP with required ratio			
E20-SPLH	1:1 - 40:1			Left Hand Helicals : Replace SP with required ratio			

Weight: 0.255 kg. 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) = 15 kg.
 Max. Thrust Loads at 1000 Rpm: Thrust Load (F_a) = 10 kg.
 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 Nm

RPM Input	Reduction Ratio								
	1:1	2:1	3:1	4:1	5:1	8:1	10:1	20:1	40:1
3000	0.60	0.60	0.60	0.60	0.60	-	-	-	-
2000	0.70	0.70	0.70	0.70	0.70	1.05	1.20	1.36	1.52
1000	1.00	1.00	1.00	1.00	1.00	1.31	1.47	1.63	1.80
500	1.40	1.40	1.40	1.40	1.40	1.93	2.08	2.22	2.37
100	1.80	1.80	1.80	1.80	1.80	2.60	2.70	2.83	2.95
50	1.90	1.90	1.90	1.90	1.90	2.95	3.13	3.31	3.40
10	2.00	2.00	2.00	2.00	2.00	3.62	3.70	3.80	3.84

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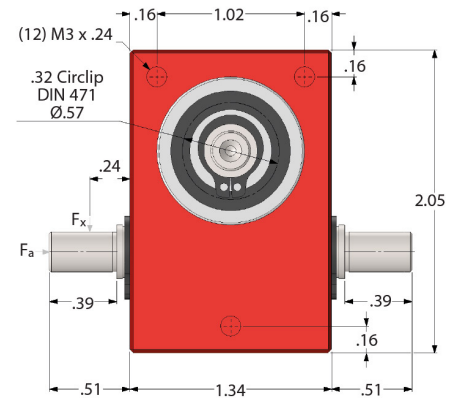
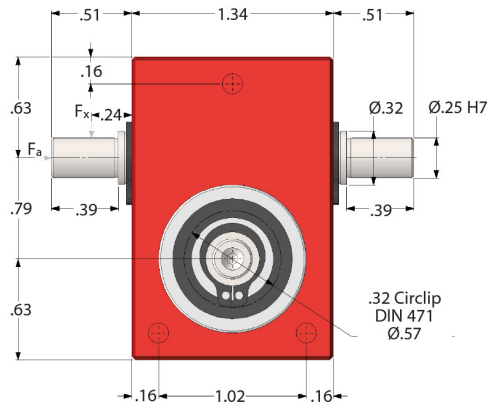
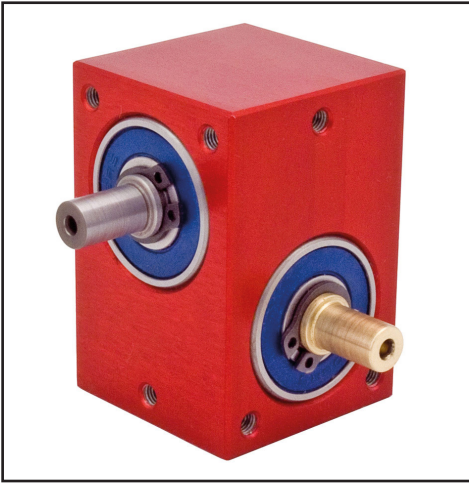
EA20

GEARBOXES

EA20

Right Angle Helical Reducers

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



Part Number	Ratio	Type	Input Face	Efficiency at 1000 Rpm	Max Input Speed	Reflected Inertia at Input (lb.in ²)	Self Locking Output
EA20-1	1:1	Helical	A	88%	4,000	1.29 x 10 ⁻²	✗
EA20-2	2:1	Helical	A	86%	4,000	8.03 x 10 ⁻³	✗
EA20-3	3:1	Helical	A	85%	4,000	6.87 x 10 ⁻³	✗
EA20-4	4:1	Helical	A	84%	4,000	6.79 x 10 ⁻³	✗
EA20-5	5:1	Helical	A	80%	4,000	5.28 x 10 ⁻³	✗
EA20-8	8:1	Wormwheel	A	80%	2,000	5.54 x 10 ⁻³	✗
EA20-10	10:1	Wormwheel	A	73%	2,000	5.50 x 10 ⁻³	✗
EA20-20	20:1	Wormwheel	A	67%	2,000	5.44 x 10 ⁻³	✓
EA20-40	40:1	Wormwheel	A	60%	2,000	5.43 x 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 Input	Reduction Ratio								
	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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