

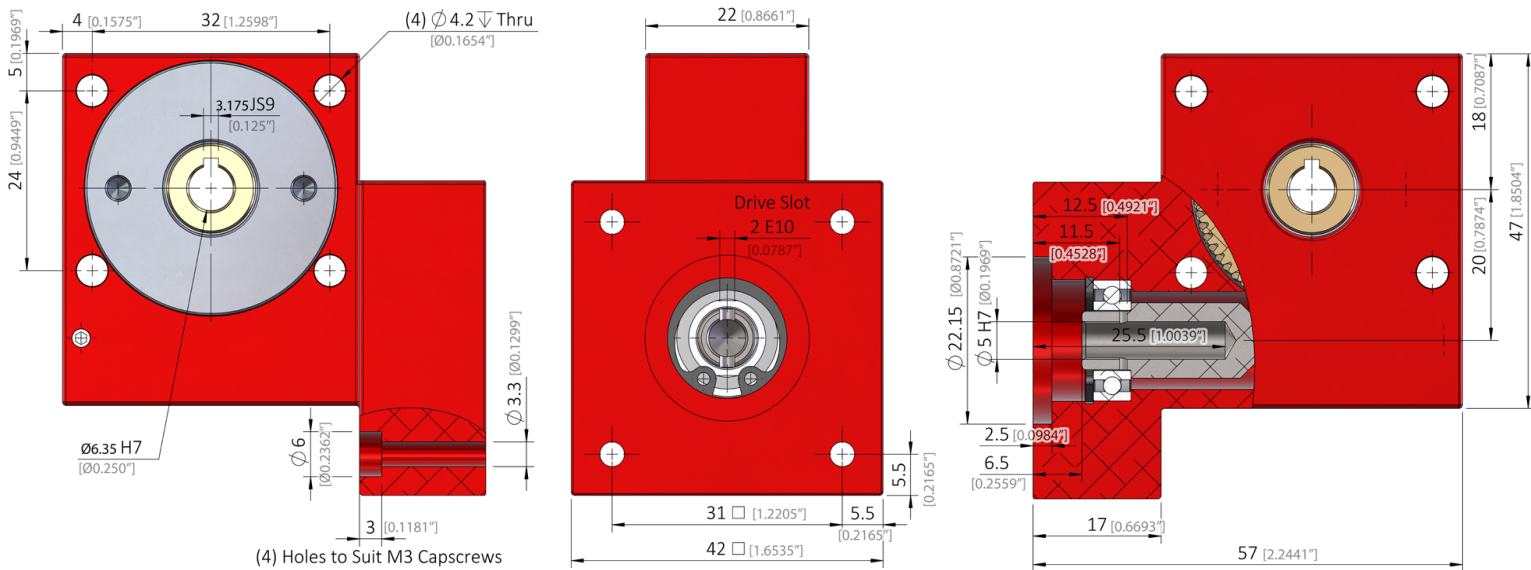
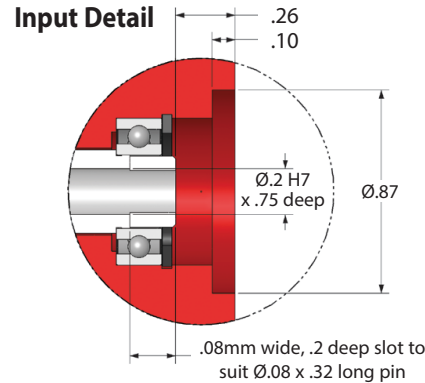
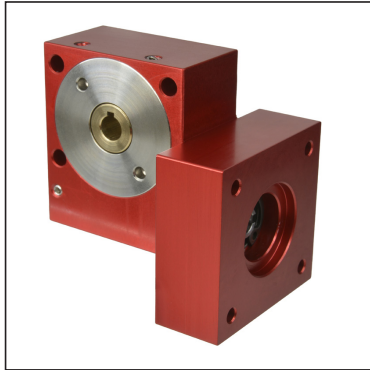
GEARBOXES

Precision Worm Gear Reducers

Nema 17 Flange Input 11 – 44.3 lbf.in **5:1 - 120:1**

e-cad
Drawings
Available

PFA20NM



Standard ≤30'	Low Backlash ≤8'	Red. Backlash ≤4'	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (lb.in ²)	Self Locking Output
PFA20-10NM	PFA20-10ANM	PFA20-10ARNM	10:1	86%	8.65 x 10 ⁻⁴	✗
PFA20-12NM	PFA20-12ANM	PFA20-12ARNM	12:1	85%	8.30 x 10 ⁻⁴	✗
PFA20-15NM	PFA20-15ANM	PFA20-15ARNM	15:1	84%	8.03 x 10 ⁻⁴	✗
PFA20-20NM	PFA20-20ANM	PFA20-20ARNM	20:1	78%	7.79 x 10 ⁻⁴	✗
PFA20-30NM	PFA20-30ANM	PFA20-30ARNM	30:1	71%	7.65 x 10 ⁻⁴	✗
PFA20-60NM	PFA20-60ANM	PFA20-60ARNM	60:1	60%	7.55 x 10 ⁻⁴	✓
PFA20-120NM	PFA20-120ANM	PFA20-120ARNM	120:1	32%	6.83 x 10 ⁻⁴	✓
PFA20-SPNM	PFA20-SPANM	PFA20-SPARNM	5:1-120:1	Special Ratios : Replace SP with required ratio		

Weight: 0.5 lb. **Greased for Life:** Shell Gadus S5 V42P 2.5.
F_a at 1000 Rpm: 26.46 lb. **F_a at 1000 Rpm:** 11.02 lb.

Modifications and custom designed gearboxes available. Contact Sales for details.
Testing in your application is necessary.
You will need to assess duty cycles and confirm suitability with your own calculations.
All figures listed are to be used for guidance only.

Output Torque lbf.in

Rpm Input	Reduction Ratio						
	10:1	12:1	15:1	20:1	30:1	60:1	120:1
3000	12.4	13.3	14.2	15.0	16.8	18.6	11.1
2000	15.0	15.0	15.9	15.9	18.6	21.2	12.6
1000	18.6	20.4	20.4	22.1	23.9	25.7	15.0
500	23.9	23.9	24.8	25.7	28.3	31.0	17.2
200	30.1	31.0	31.0	32.7	34.5	36.3	20.1
100	34.5	34.5	36.3	37.2	38.1	39.8	22.6
50	38.9	39.8	39.8	40.7	41.6	42.5	24.1
10	42.5	42.5	43.4	43.4	44.3	44.3	24.1

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