

GEARBOXES

Precision Worm Gear Reducers

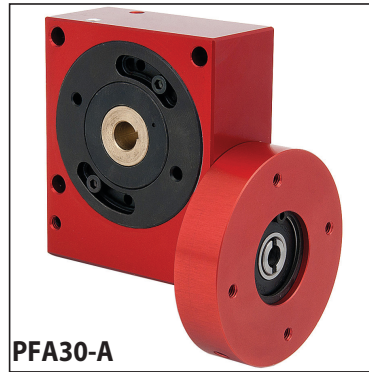
Flange Input 22.1 – 77.9 lbf.in **5:1 - 120:1**

e-cad
Drawings
Available

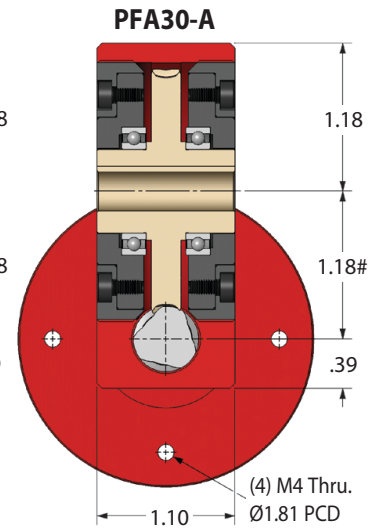
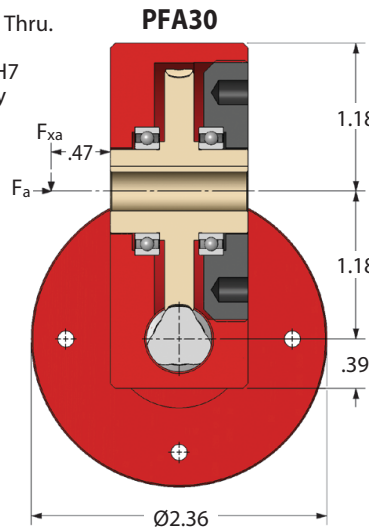
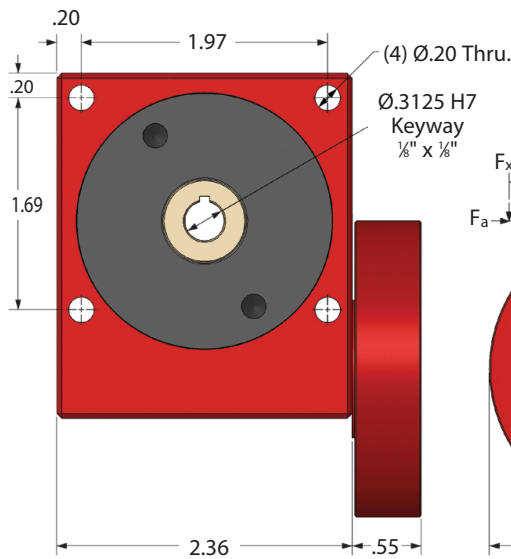
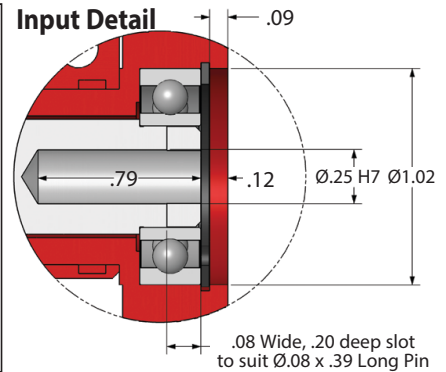
PFA30



PFA30



PFA30-A



PFA30A version (low backlash) output is on eccentric so centres will vary

Standard	Part Number	Part Number	Part Number	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (lb.in ²)	Self Locking Output
≤30'	Low Backlash ≤8'	Red. Backlash ≤4'					
PFA30-10	PFA30-10A	PFA30-10AR	10:1	90%	3.42 x 10 ⁻³	✗	
PFA30-12	PFA30-12A	PFA30-12AR	12:1	88%	3.16 x 10 ⁻³	✗	
PFA30-15	PFA30-15A	PFA30-15AR	15:1	86%	2.95 x 10 ⁻³	✗	
PFA30-20	PFA30-20A	PFA30-20AR	20:1	84%	2.78 x 10 ⁻³	✗	
PFA30-30	PFA30-30A	PFA30-30AR	30:1	78%	2.08 x 10 ⁻³	✗	
PFA30-60	PFA30-60A	PFA30-60AR	60:1	70%	2.62 x 10 ⁻³	✓	
PFA30-120	PFA30-120A	PFA30-120AR	120:1	40%	2.54 x 10 ⁻³	✓	
PFA30-SP	PFA30-SPA	PFA30-SPAR	5:1-120:1	Special Ratios : Replace SP with required ratio			

Weight: 1.30 lb. **Greased for Life:** Shell Gadus S5 V42P 2.5.
F_{xa} at 1000 Rpm: 44.09 lb. **F_a at 1000 Rpm:** 26.46 lb.

Tapped holes on input flange are not relative in position to the gearbox body and will alter from box to box. However, we can machine the tapped holes after assembly so they are relative in position to the gearbox body. This will affect delivery.

Motor Inputs also available.

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						
	10:1	12:1	15:1	20:1	30:1	60:1	120:1
3000	22.1	22.1	23.0	23.9	26.6	31.0	30.1
2000	24.8	25.7	26.6	28.3	31.9	36.3	32.7
1000	31.0	32.7	35.4	37.2	39.8	44.3	40.7
500	40.7	41.6	43.4	45.1	46.9	51.3	47.8
200	47.8	49.6	50.4	52.2	54.9	58.4	56.6
100	53.1	53.1	57.5	57.5	62.0	66.4	59.3
50	66.4	69.0	70.8	73.5	73.5	76.1	59.3
10	70.8	70.8	73.5	75.2	75.2	77.9	59.3