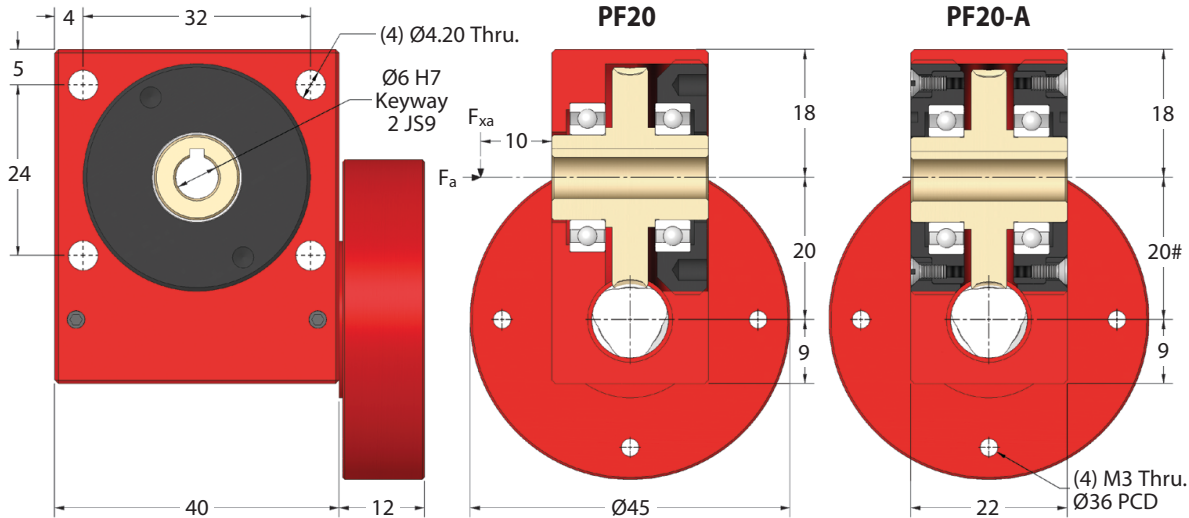
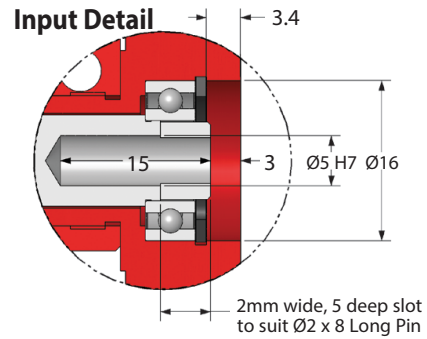
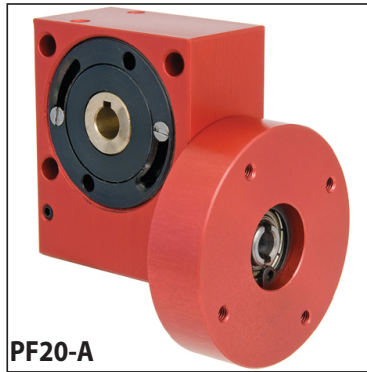
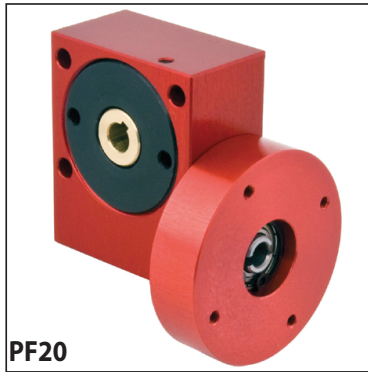


PF20**e-cad**
Drawings
Available

GEARBOXES

Precision Worm Gear Reducers

Flange Input 1.25 – 5 Nm **5:1 - 120:1**

PF20A version (low backlash) output is on eccentric so centres will vary

Standard ≤30'	Part Number		Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (kg.m ²)	Self Locking Output
	Low Backlash ≤8'	Red. Backlash ≤4'				
PF20-10	PF20-10A	PF20-10AR	10:1	86%	2.53 x 10 ⁻⁷	✗
PF20-12	PF20-12A	PF20-12AR	12:1	85%	2.43 x 10 ⁻⁷	✗
PF20-15	PF20-15A	PF20-15AR	15:1	84%	2.35 x 10 ⁻⁷	✗
PF20-20	PF20-20A	PF20-20AR	20:1	78%	2.28 x 10 ⁻⁷	✗
PF20-30	PF20-30A	PF20-30AR	30:1	71%	2.24 x 10 ⁻⁷	✗
PF20-60	PF20-60A	PF20-60AR	60:1	60%	2.21 x 10 ⁻⁷	✓
PF20-120	PF20-120A	PF20-120AR	120:1	32%	2.00 x 10 ⁻⁷	✓
PF20-SP	PF20-SPA	PF20-SPAR	5:1-120:1	Special Ratios : Replace SP with required ratio		

Accessories

P20-X	Single Output Shafts
P20-DX	Double Output Shafts
KK2-20	Output Key

Weight: 0.23 kg. Greased for Life: Shell Gadus S5 V42P 2.5.
F_{xa} at 1000 Rpm: 12 kg. F_a at 1000 Rpm: 5 kg.

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 Nm

Rpm Input	Reduction Ratio						
	10:1	12:1	15:1	20:1	30:1	60:1	120:1
3000	1.40	1.50	1.60	1.70	1.90	2.10	1.25
2000	1.70	1.70	1.80	1.80	2.10	2.40	1.42
1000	2.10	2.30	2.30	2.50	2.70	2.90	1.70
500	2.70	2.70	2.80	2.90	3.20	3.50	1.94
200	3.40	3.50	3.50	3.70	3.90	4.10	2.27
100	3.90	3.90	4.10	4.20	4.30	4.50	2.55
50	4.40	4.50	4.50	4.60	4.70	4.80	2.72
10	4.80	4.80	4.90	4.90	5.00	5.00	2.72

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