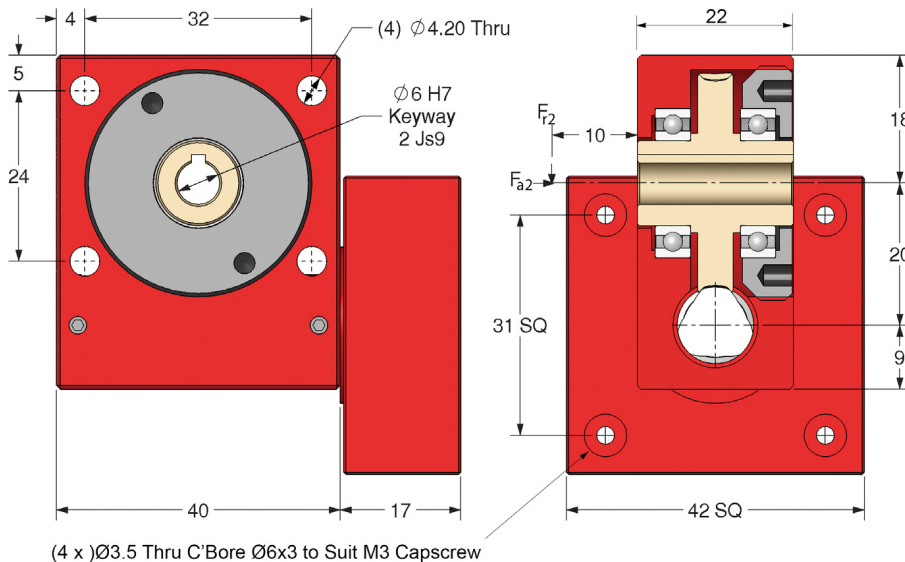
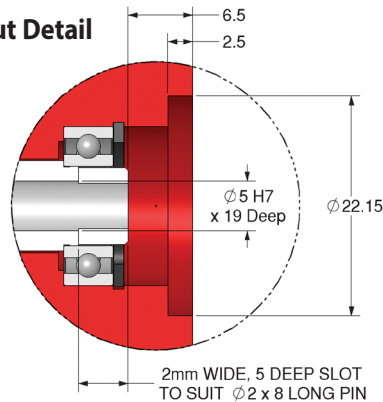


PF20NM**e-cad**
Drawings
Available

GEARBOXES

Precision Worm Gear Reducers

Nema 17 Flange Input 1.25 – 5 Nm **5:1 - 120:1****Input Detail**

(4 x)Ø3.5 Thru C'Bore Ø6x3 to Suit M3 Capscrew

Standard ≤30	Low Backlash ≤8'	Red. Backlash ≤4'	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (kg.m ²)	Self Locking Output
PF20-10NM	PF20-10ANM	PF20-10ARNM	10:1	86%	2.53 x 10 ⁻⁷	✗
PF20-12NM	PF20-12ANM	PF20-12ARNM	12:1	85%	2.43 x 10 ⁻⁷	✗
PF20-15NM	PF20-15ANM	PF20-15ARNM	15:1	84%	2.35 x 10 ⁻⁷	✗
PF20-20NM	PF20-20ANM	PF20-20ARNM	20:1	78%	2.28 x 10 ⁻⁷	✗
PF20-30NM	PF20-30ANM	PF20-30ARNM	30:1	71%	2.24 x 10 ⁻⁷	✗
PF20-60NM	PF20-60ANM	PF20-60ARNM	60:1	60%	2.21 x 10 ⁻⁷	✓
PF20-120NM	PF20-120ANM	PF20-120ARNM	120:1	32%	2.00 x 10 ⁻⁷	✓
PF20-SPNM	PF20-SPANM	PF20-SPARNM	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.

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 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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