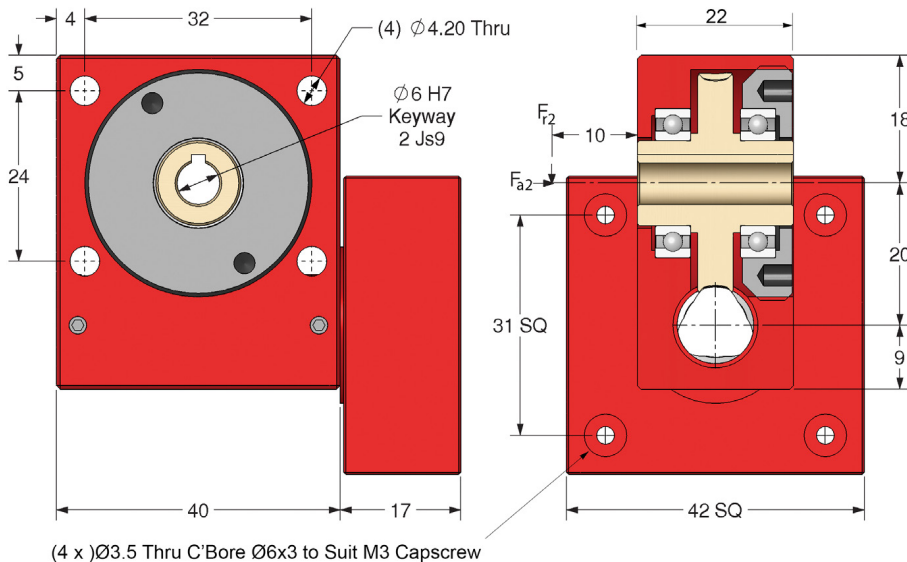
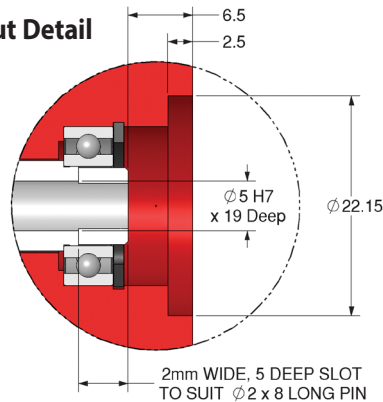


PF20NM**e-cad**
Drawings
Available

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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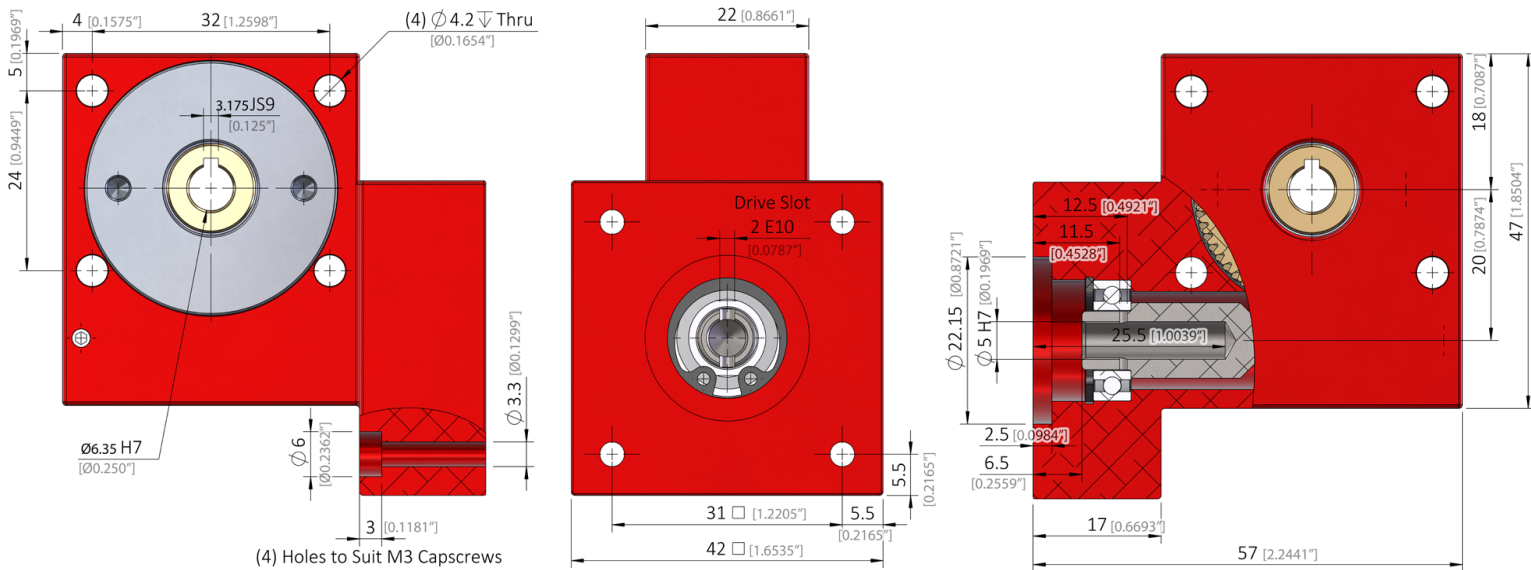
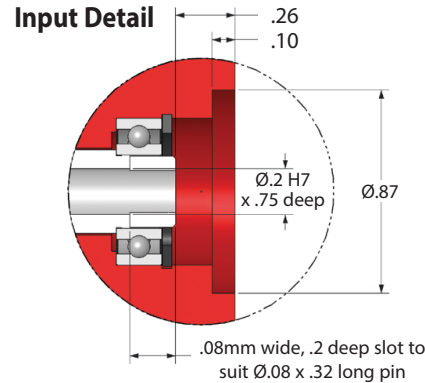
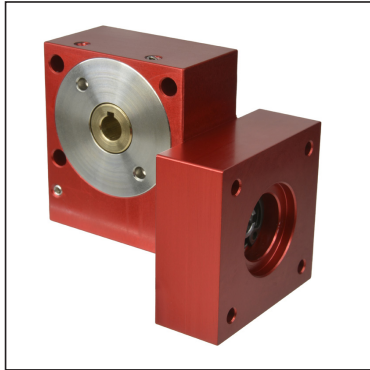
GEARBOXES

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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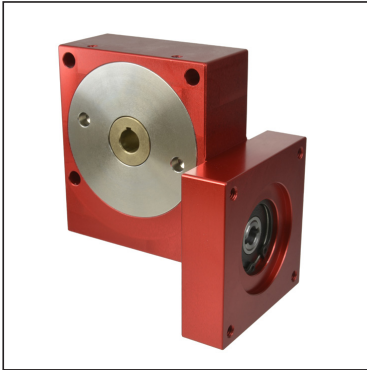
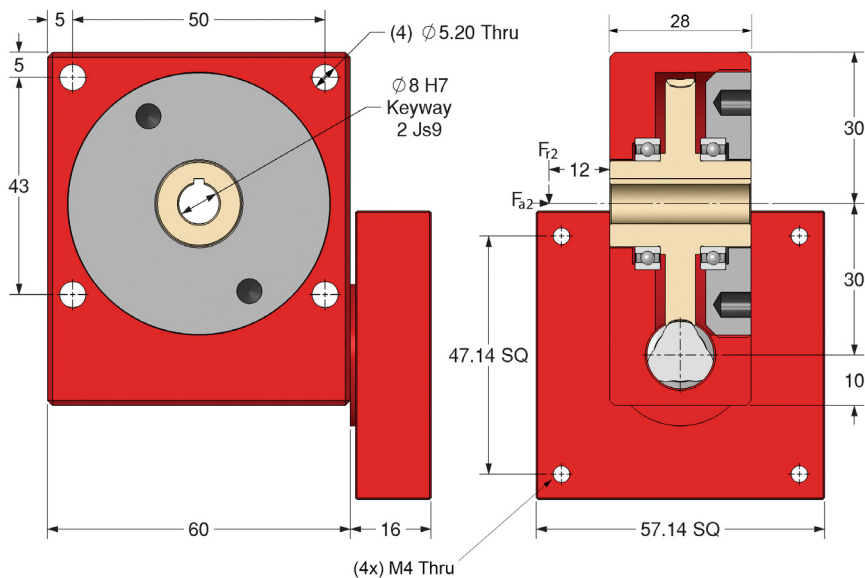
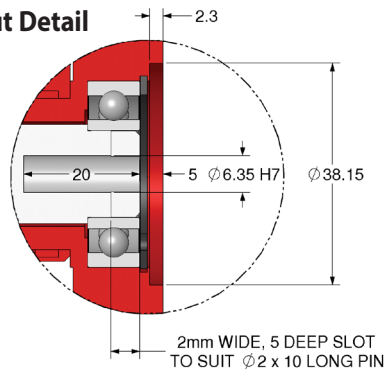
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PF30NM**e-cad**
Drawings
Available

GEARBOXES

Precision Worm Gear Reducers

Nema 23 Flange Input 2.5 – 8.8 Nm **5:1 - 120:1****Input Detail**

Standard ≤30'	Low Backlash ≤8'	Red. Backlash ≤4'	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (kg.m ²)	Self Locking Output
PF30-10NM	PF30-10ANM	PF30-10ARNM	10:1	90%	1.00 x 10 ⁻⁶	✗
PF30-12NM	PF30-12ANM	PF30-12ARNM	12:1	88%	9.25 x 10 ⁻⁷	✗
PF30-15NM	PF30-15ANM	PF30-15ARNM	15:1	86%	8.62 x 10 ⁻⁷	✗
PF30-20NM	PF30-20ANM	PF30-20ARNM	20:1	84%	8.13 x 10 ⁻⁷	✗
PF30-30NM	PF30-30ANM	PF30-30ARNM	30:1	78%	7.88 x 10 ⁻⁷	✗
PF30-60NM	PF30-60ANM	PF30-60ARNM	60:1	70%	7.67 x 10 ⁻⁷	✓
PF30-120NM	PF30-120ANM	PF30-120ARNM	120:1	40%	7.42 x 10 ⁻⁷	✓
PF30-SPNM	PF30-SPANM	PF30-SPARNM	5:1-120:1	Special Ratios : Replace SP with required ratio		

Accessories**P30-X**

Single Output Shafts

P30-DX

Double Output Shafts

KK2-20

Output Key

Weight: 0.59 kg. **Greased for Life:** Shell Gadus S5 V42P 2.5.
F_{xa} at 1000 Rpm: 20 kg. **F_a at 1000 Rpm:** 12 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	2.5	2.5	2.6	2.7	3.0	3.5	3.4
2000	2.8	2.9	3.0	3.2	3.6	4.1	3.7
1000	3.5	3.7	4.0	4.2	4.5	5.0	4.6
500	4.6	4.7	4.9	5.1	5.3	5.8	5.4
200	5.4	5.6	5.7	5.9	6.2	6.6	6.4
100	6.0	6.0	6.5	6.5	7.0	7.5	6.7
50	7.5	7.8	8.0	8.3	8.3	8.6	6.7
10	8.0	8.0	8.3	8.5	8.5	8.8	6.7

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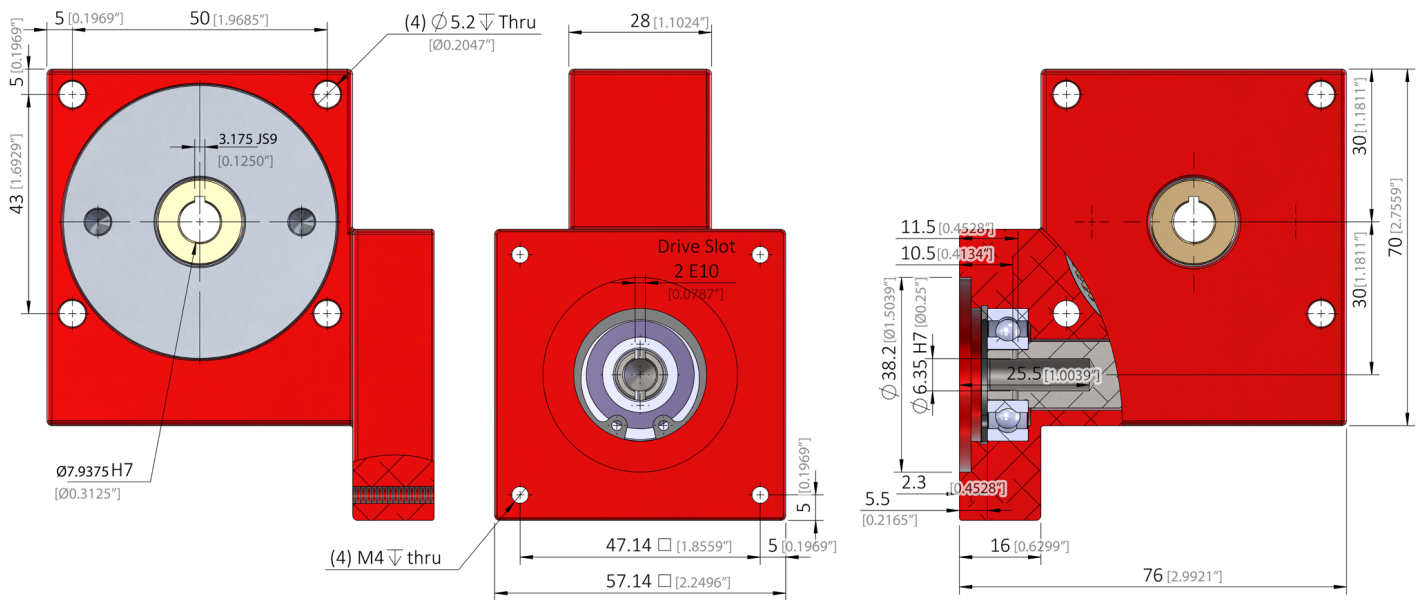
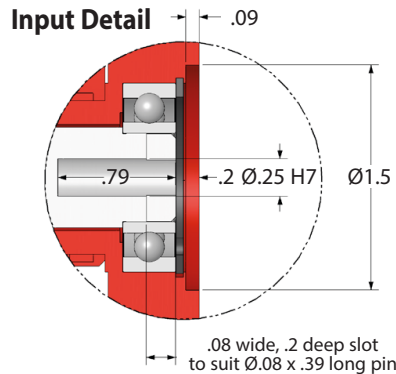
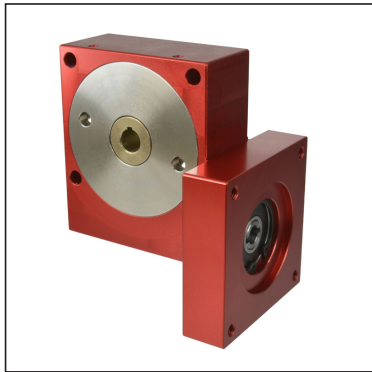
GEARBOXES

Precision Worm Gear Reducers

Nema 23 Flange Input 30 – 77.9 lbf.in **5:1 - 120:1**

e-cad
Drawings
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PFA30NM



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

Weight: 1.30 lb. **Greased for Life:** Shell Gadus S5 V42P 2.5.
F₃₀ at 1000 Rpm: 44.09 lb. **F₂ at 1000 Rpm:** 26.46 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	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

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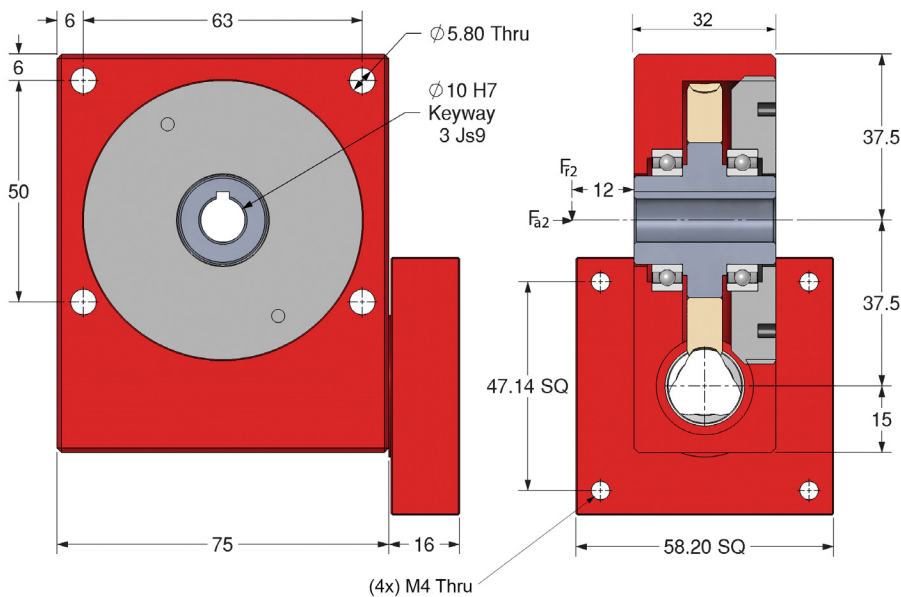
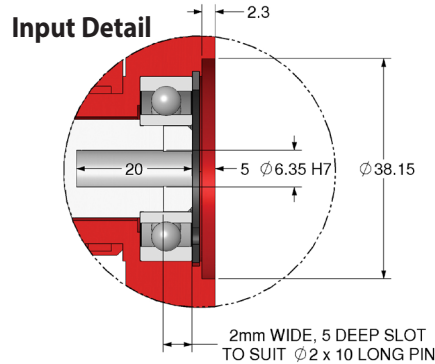
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PF40NM**e-cad**
Drawings
Available

GEARBOXES

Precision Worm Gear Reducers

Nema 23 Flange Input 5 – 18 Nm **5:1 - 120:1**

Standard ≤30'	Low Backlash ≤8'	Red. Backlash ≤4'			Reflected Inertia at Input (kg.m ²)	Self Locking Output
PF40-10NM	PF40-10ANM	PF40-10ARNM	10:1	89%	3.78 x 10 ⁻⁶	✗
PF40-12NM	PF40-12ANM	PF40-12ARNM	12:1	87%	3.62 x 10 ⁻⁶	✗
PF40-15NM	PF40-15ANM	PF40-15ARNM	15:1	85%	3.49 x 10 ⁻⁶	✗
PF40-20NM	PF40-20ANM	PF40-20ARNM	20:1	83%	3.39 x 10 ⁻⁶	✗
PF40-30NM	PF40-30ANM	PF40-30ARNM	30:1	76%	3.32 x 10 ⁻⁶	✗
PF40-60NM	PF40-60ANM	PF40-60ARNM	60:1	65%	3.27 x 10 ⁻⁶	✓
PF40-120NM	PF40-120ANM	PF40-120ARNM	120:1	41%	3.26 x 10 ⁻⁶	✓
PF40-SPNM	PF40-SPANM	PF40-SPARNM	5:1-120:1	Special Ratios : Replace SP with required ratio		
Accessories						
P40-X			Single Output Shafts			
P40-DX			Double Output Shafts			
KK3-20			Output Key			

Weight: 1.15 kg. **Greased for Life:** Shell Gadus S5 V42P 2.5.
F_{xa} at 1000 Rpm: 30 kg. **F_a at 1000 Rpm:** 20 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	5.0	5.2	5.4	5.6	6.4	7.2	6.5
2000	5.5	5.8	6.2	6.6	7.3	8.0	7.2
1000	7.1	7.5	8.0	8.2	9.0	10.0	8.7
500	8.9	9.1	9.6	10.0	10.5	11.4	10.2
200	11.6	11.9	12.3	12.5	13.5	14.2	11.7
100	13.4	13.6	14.1	14.6	15.3	16.0	12.3
50	15.1	15.5	16.2	16.4	17.3	17.6	12.3
10	17.6	17.6	17.6	17.7	17.8	18.0	12.3

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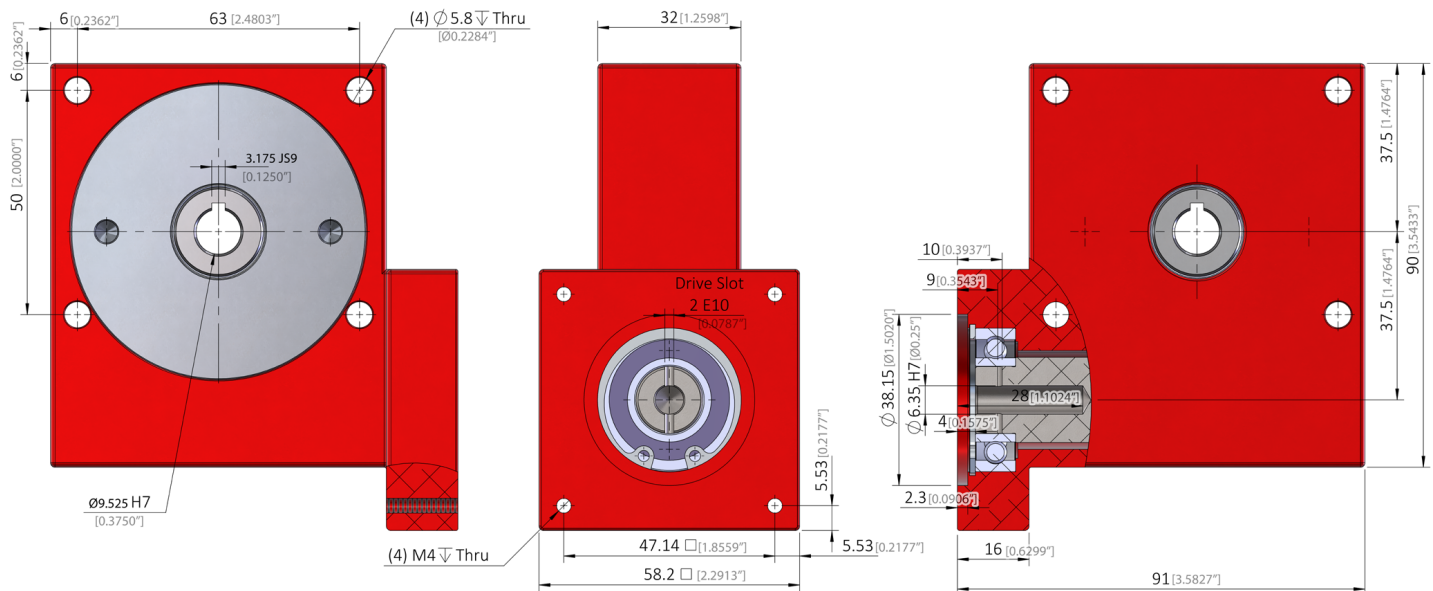
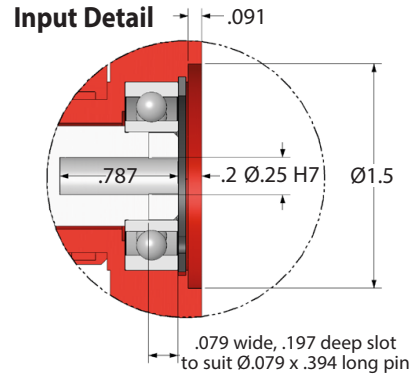
GEARBOXES

Precision Worm Gear Reducers

Nema 23 Flange Input 57.5 – 159.3 lbf.in **5:1 - 120:1**

e-cad
Drawings
Available

PFA40NM



Standard ≤30'	Low Backlash ≤8'	Red. Backlash ≤4'	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (lb.in ²)	Self Locking Output
PFA40-10NM	PFA40-10ANM	PFA40-10ARNM	10:1	89%	1.29 x 10 ⁻²	✗
PFA40-12NM	PFA40-12ANM	PFA40-12ARNM	12:1	87%	1.24 x 10 ⁻²	✗
PFA40-15NM	PFA40-15ANM	PFA40-15ARNM	15:1	85%	1.19 x 10 ⁻²	✗
PFA40-20NM	PFA40-20ANM	PFA40-20ARNM	20:1	83%	1.16 x 10 ⁻²	✗
PFA40-30NM	PFA40-30ANM	PFA40-30ARNM	30:1	76%	1.13 x 10 ⁻²	✗
PFA40-60NM	PFA40-60ANM	PFA40-60ARNM	60:1	65%	1.12 x 10 ⁻²	✓
PFA40-120NM	PFA40-120ANM	PFA40-120ARNM	120:1	41%	1.11 x 10 ⁻²	✓
PFA40-SPNM	PFA40-SPANM	PFA40-SPARNM	5:1-120:1	Special Ratios : Replace SP with required ratio		

Weight: 2.54 lb. **Greased for Life:** Shell Gadus S5 V42P 2.5.
F_a at 1000 Rpm: 66.14 lb. **F_t at 1000 Rpm:** 44.09 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	44.3	46.0	47.8	49.6	56.6	63.7	57.5
2000	48.7	51.3	54.9	58.4	64.6	70.8	63.7
1000	62.8	66.4	70.8	72.6	79.7	88.5	77.0
500	78.8	80.5	85.0	88.5	92.9	100.9	90.3
200	102.7	105.3	108.9	110.6	119.5	125.7	103.6
100	118.6	120.4	124.8	129.2	135.4	141.6	108.9
50	133.6	137.2	143.4	145.2	153.1	155.8	108.9
10	155.8	155.8	155.8	156.7	157.5	159.3	108.9