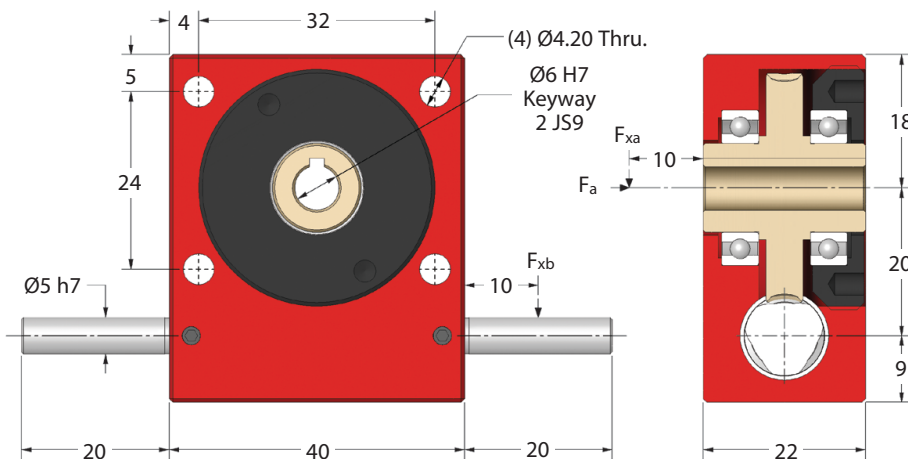
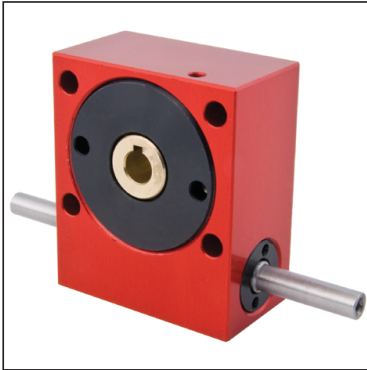


P20**e-cad**
Drawings
Available

GEARBOXES

Precision Worm Gear Reducers

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

Standard ≤30'	Part Number Low Backlash ≤8'	Red. Backlash ≤4'	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (kg.m ²)	Self Locking Output
P20-10	P20-10A	P20-10AR	10:1	86%	2.03 x 10 ⁻⁷	✗
P20-12	P20-12A	P20-12AR	12:1	85%	1.93 x 10 ⁻⁷	✗
P20-15	P20-15A	P20-15AR	15:1	84%	1.85 x 10 ⁻⁷	✗
P20-20	P20-20A	P20-20AR	20:1	78%	1.78 x 10 ⁻⁷	✗
P20-30	P20-30A	P20-30AR	30:1	71%	1.74 x 10 ⁻⁷	✗
P20-60	P20-60A	P20-60AR	60:1	60%	1.71 x 10 ⁻⁷	✓
P20-120	P20-120A	P20-120AR	120:1	32%	1.50 x 10 ⁻⁷	✓
P20-SP	P20-SPA	P20-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: 0.18 kg. **Greased for Life:** Shell Gadus S5 V42P 2.5.**F_{xb} at 1000 Rpm:** 6 kg. **F_{xa} at 1000 Rpm:** 12 kg. **F_a at 1000 Rpm:** 5 kg.**Input Shaft Modifications:**Smaller Diameter, Mill Keyway/Flat, Shorten Shaft Length.
Circlip Groove, Pin Hole.

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