

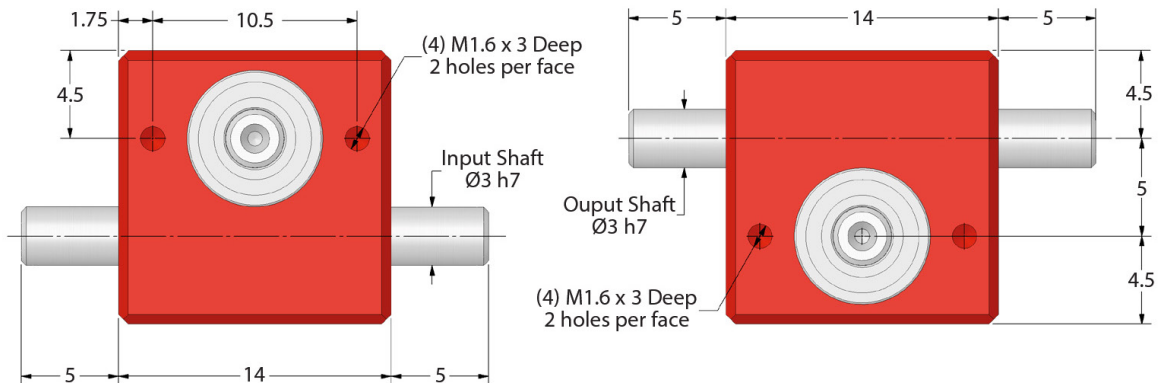
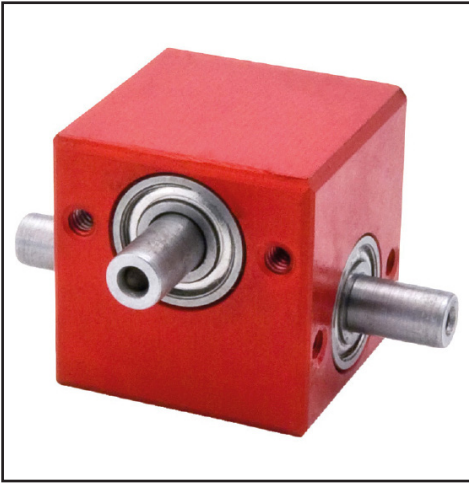
PR5

GEARBOXES

PR5

Miniature Precision Worm Gear Reducers

Shaft Input & Output 0.009 – 0.028 Nm **6:1 - 18:1**



Part Number	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (kg.m ²)	Self* Locking Output
PR5-6	6:1	78%	6.04×10^{-9}	✗
PR5-9	9:1	71%	5.99×10^{-9}	✗
PR5-18	18:1	60%	5.96×10^{-9}	✓

Housing: AA15 Red Anodised Aluminum (6082-T6).

Shafts: 817M40(EN24) T Condition.

Worm: 817M40(EN24) T Condition.

Wheel: 817M40(EN24) T Condition.

Bearings: Steel ZZ Shielded.

Weight: 0.032 kg.

Backlash: $\approx 2^\circ$.

Max. Input Speed: 4,000 Rpm (short term).

Greased for Life: Shell Gadus S5 V42P 2.5.

* Static only and may not be under vibration or other conditions of use. Amount of locking effect may vary due to manufacturing processes etc.

Input Shaft: RH as standard.

Output Torque Nm

RPM Input	Reduction Ratio		
	6:1	9:1	18:1
2000	0.009	0.009	0.009
1000	0.012	0.012	0.012
500	0.017	0.017	0.017
200	0.022	0.022	0.022
100	0.028	0.028	0.028

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.

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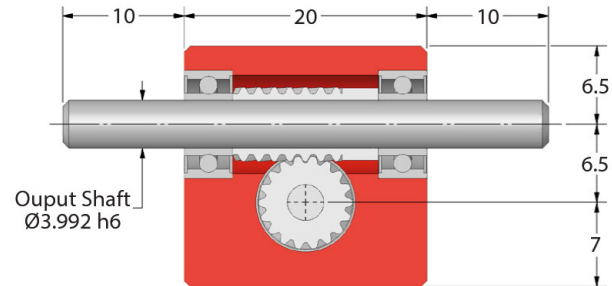
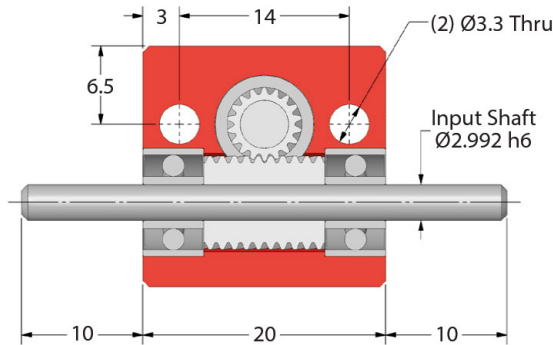
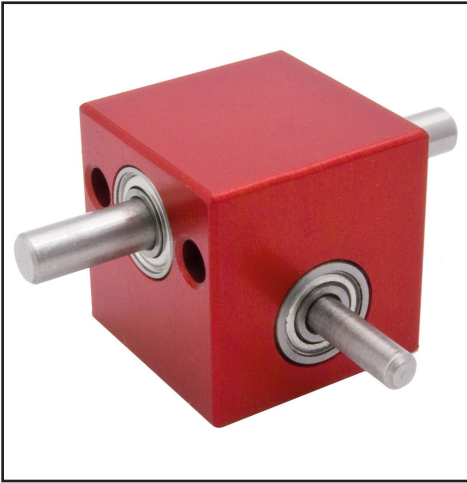
PR6

GEARBOXES

PR6

Miniature Precision Worm Gear Reducers

Shaft Input & Output 0.015 – 0.046 Nm **1:1 - 30:1**



Part Number	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (kg.m ²)	Self* Locking Output
PR6-1	1:1	82%	4.10×10^{-8}	✗
PR6-5	5:1	80%	1.03×10^{-8}	✗
PR6-10	10:1	78%	9.35×10^{-9}	✗
PR6-15	15:1	71%	9.18×10^{-9}	✓
PR6-30	30:1	60%	9.07×10^{-9}	✓

Housing: AA15 Red Anodised Aluminum (6082-T6).

Shafts: 303 Stainless Steel.

Worm: 817M40(EN24) T Condition.

Wheel: 817M40(EN24) T Condition.

Bearings: Steel ZZ Shielded.

Weight: 0.032 kg.

Backlash: $\approx 2^\circ$.

Max. Input Speed: 4,000 Rpm (short term).

Greased for Life: Shell Gadus S5 V42P 2.5.

* Static only and may not be under vibration or other conditions of use. Amount of locking effect may vary due to manufacturing processes etc.

Input Shaft: RH as standard.

Output Torque Nm

RPM Input	Reduction Ratio				
	1:1	5:1	10:1	15:1	30:1
2000	0.015	0.015	0.015	0.015	0.015
1000	0.020	0.020	0.020	0.020	0.020
500	0.028	0.028	0.028	0.028	0.028
200	0.036	0.036	0.036	0.036	0.036
100	0.046	0.046	0.046	0.046	0.046

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.

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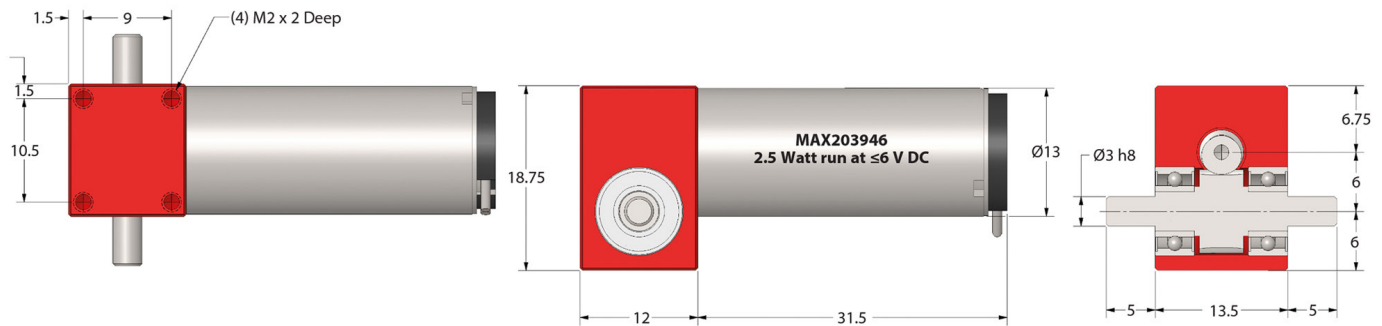
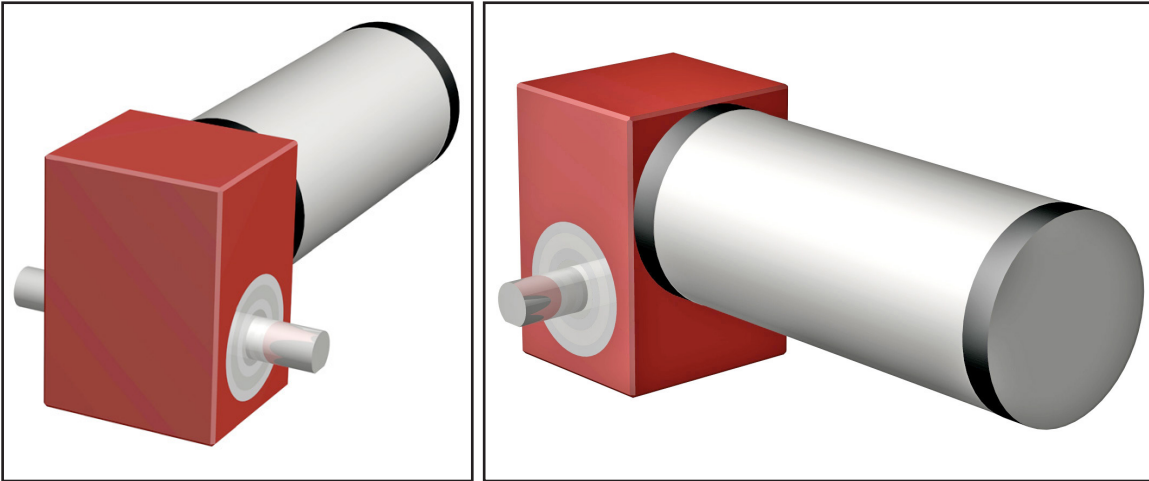
PREM6

GEARBOXES

PREM6

Miniature Precision Worm Gear Reducers

Fitted with Miniature DC Motor 0.036 Nm



Part Number	Ratio	Rated Output Torque Nm	Self* Locking Output
PREM6-32	32:1	-	×
PREM6-32-13	32:1	0.036	MAX203946

Part Number	Voltage (V)	No Load Speed (Rpm)	No Load Current (mA)	Nominal Current (mA)	Max. Efficiency Nominal Torque (mNm)	Moment of Inertia (gcm ²)	
MAX203946	12	11,100	7	272	84%	2.6	0.507

Gearbox Case: Aluminum 6082 T6.

Gears: Steel 817M40 T condition.

Motor

2 Pole Permanent Magnet Motor.

Weight: 24 g.

Ambient Temperature Range: -20°C to +65°C (Max. Motor

Temperature +85°C).

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