

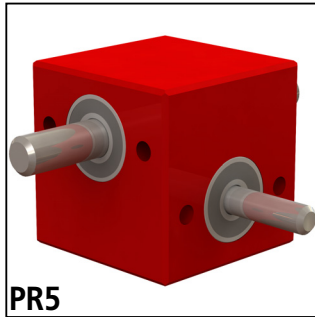
# GEARBOXES

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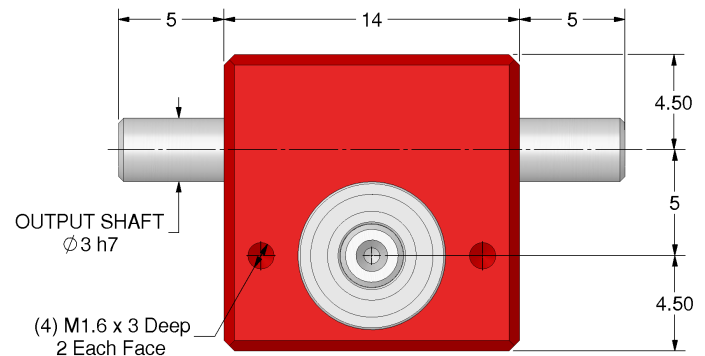
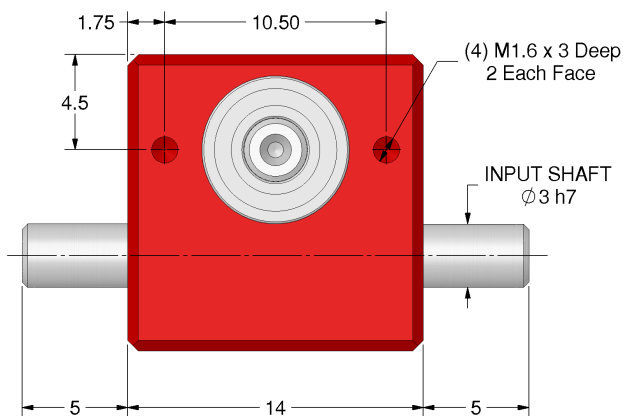
PR5

## Miniature Precision Worm Gear Reducers

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



PR5



Part Number	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (kg.m <sup>2</sup> )	Self 1) Locking Output
PR5-6	6:1	78%	6.04 x 10 <sup>-9</sup>	✘
PR5-9	9:1	71%	5.99 x 10 <sup>-9</sup>	✘
PR5-18	18:1	60%	5.96 x 10 <sup>-9</sup>	✔

### Material

**Housing:** AA15 Red Anodised Aluminium (6082-T6).

**Shafts:** 303 Stainless Steel.

**Worm:** 817M40(EN24) T Condition.

**Wheel:** 817M40(EN24) T Condition.

**Bearings:** Steel ZZ Shielded.

### Performance

**Weight:** 0.032kg.

**Backlash:** ≈2°.

**Max Input Speed:** 4000 Rpm (short term).

**Greased for life:** Shell Nerita Grease HV.

1) Static only and may not be under vibration or other conditions of use.

Amount of locking effect may vary due to manufacturing processes etc.

### 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

### Other Info.

**Input Shaft:** RH as standard.

Testing in your applications is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.



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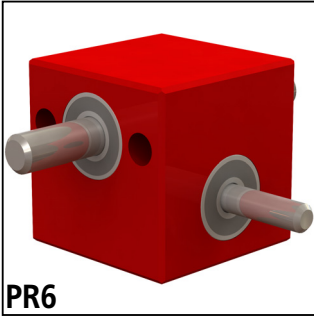
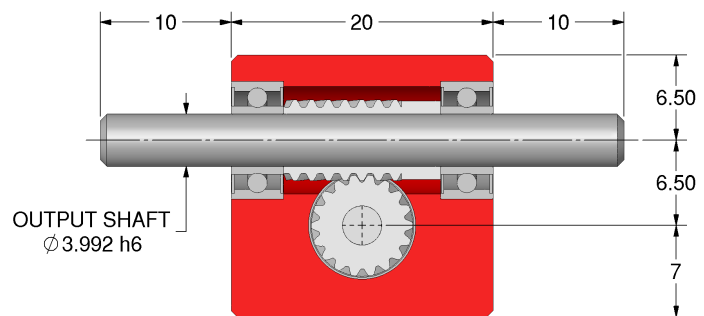
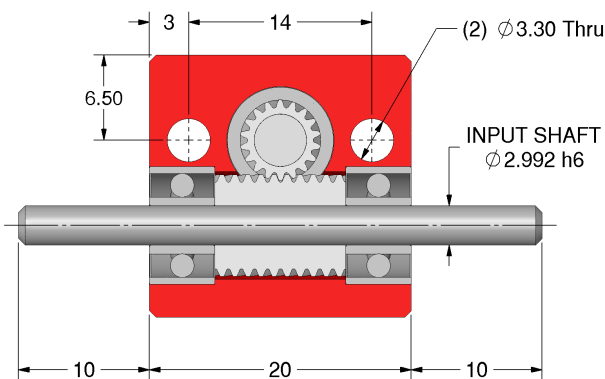
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**PR6**e-cad  
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# GEARBOXES

## Miniature Precision Worm Gear Reducers

Shaft Input & Output 0.015Nm – 0.046Nm **1:1 - 30:1****PR6**

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

### Material

**Housing:** AA15 Red Anodised Aluminium (6082-T6).**Shafts:** 303 Stainless Steel.**Worm:** 817M40(EN24) T Condition.**Wheel:** 817M40(EN24) T Condition.**Bearings:** Steel ZZ Shielded.

### Performance

**Weight:** 0.032kg.**Backlash:** ≈2°.**Max Input Speed:** 4000 Rpm (short term).**Greased for life:** Shell Nerita Grease HV.

1) Static only and may not be under vibration or other conditions of use.

Amount of locking effect may vary due to manufacturing processes etc.

### Other Info.

**Input Shaft:** RH as standard.

Testing in your applications is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

### 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

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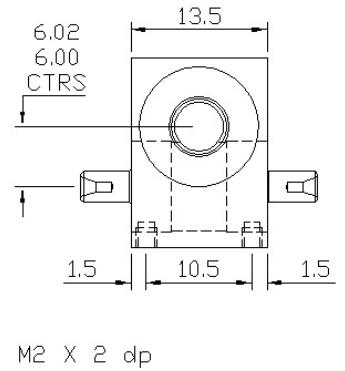
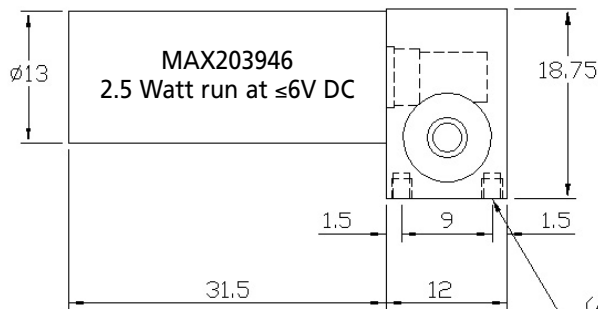
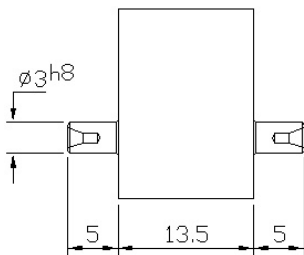
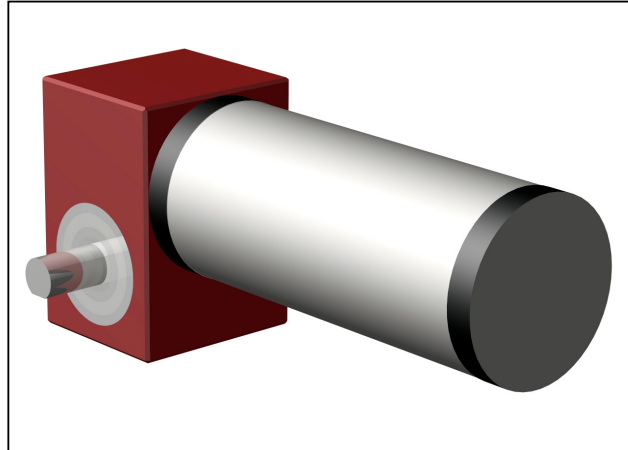
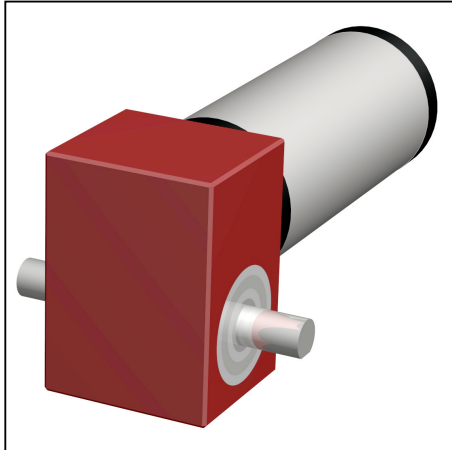
# GEARBOXES

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**PREM6**

## Miniature Precision Worm Gear Reducers

Fitted with Miniature DC Motor 0.036Nm



(4) M2 X 2 dp

Part Number	Ratio	Rated Output Torque Nm	Fitted Motor
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 <sup>2</sup> )
MAX203946	12	11,100	7	272	84%	2.6	0.507

### Material

Gearbox Case: Aluminium 6082 T6

Gears: Steel 817M40 T condition

### Motor

2 Pole Permanent Magnet Motor

Weight: 24g

Ambient Temperature Range: -20°C to +65°C (Max. Motor Temperature +85°C)



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