

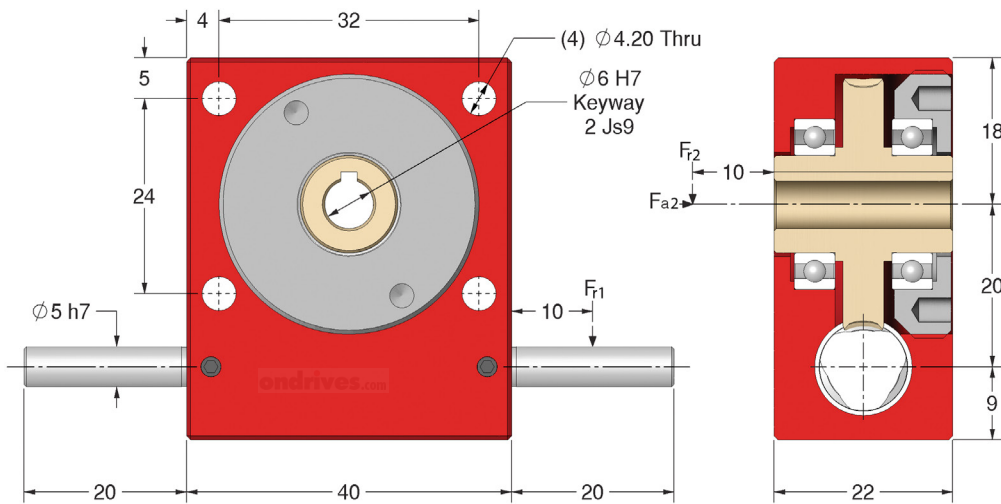
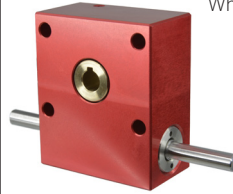
**Worm Gear Reducers**  
 5mm Input Shaft Double Sided • 6mm Output Bore 20mm  
 Centre Distance •  $T_{2max}$  3Nm – 5Nm • **10:1 - 120:1**

**Worm Gear Rotation Direction.**

**RH-Right Hand**

When input rotation is clockwise, output gear is pulled towards input.

When input is counter-clockwise, output gear is pushed away from input.



Output Backlash j	Part Numbers	Output Backlash j AR	Gear Ratio i	Efficiency $\eta z$	Lead Direction	Reflected Inertia at Input
$\leq 30'$ ( $\leq 0.50^\circ$ )	Output Backlash j A	$\leq 4'$ ( $\leq 0.066^\circ$ )		n1nom		kg·m <sup>2</sup>
P20-10	P20-10A	P20-10AR	10:1	86%	Right Hand	$2.03 \times 10^{-7}$
P20-12	P20-12A	P20-12AR	12:1	85%	Right Hand	$1.93 \times 10^{-7}$
P20-15	P20-15A	P20-15AR	15:1	84%	Right Hand	$1.85 \times 10^{-7}$
P20-20	P20-20A	P20-20AR	20:1	78%	Right Hand	$1.78 \times 10^{-7}$
P20-30	P20-30A	P20-30AR	30:1	71%	Right Hand	$1.74 \times 10^{-7}$
P20-60	P20-60A	P20-60AR	60:1	60%	Right Hand	$1.71 \times 10^{-7}$
P20-120	P20-120A	P20-120AR	120:1	32%	Right Hand	$1.50 \times 10^{-7}$

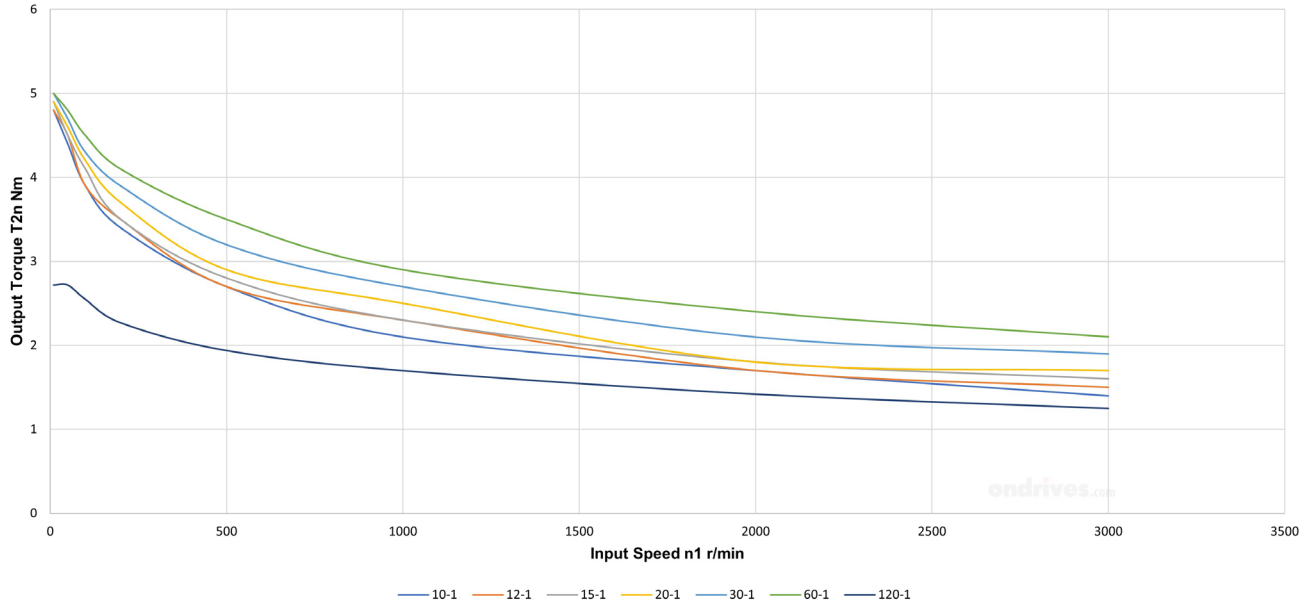
**Weight:** 0.18 kg.  
**Nom. Input Speed [S1 T<sub>2</sub>n] n1nom:** 1,000 min<sup>-1</sup> (r/min)  
**Max. Input Speed n1max:** 3,000 min<sup>-1</sup> (r/min)  
**Lubrication:** Grease Shell Gadus S5 V4P 2.5  
**Lubrication Temperature:** Max. Operating  $\approx 60^\circ\text{C}$   
**Max. Input Radial Load  $F_{r1}$ :** 20N.  
**Max. Output Radial Load  $F_{r2}$ :** 120N.  
**Max. Output Axial Load  $F_{a1}$ :** 50N.

Testing in your application is necessary.  
 You will need to assess duty cycles and confirm suitability with your own calculations.  
 Figures listed are for guidance only.  
 Cooling may be needed dependent on application.

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P Series Wormwheel Gearboxes



Worm Gear Reducers