Right Angle Helical Reducers

**E20**

**GEARBOXES**

**Available Drawings**

**Heavy Duty 6mm Bores 0.6 – 3.84Nm 1:1 - 40:1**

**Weight:** 0.255kg.  
**Greased for life:** Shell Gadus S2 V220AD 2.

**Self Locking Output:** Subject to ratio and only applies in static conditions. Amount of locking effect may vary due to manufacturing processes.

**Maximum Overhung Loads at 1000rpm:**  
- Overhung Load (F_x) = 15kg.

**Maximum Thrust Loads at 1000rpm:**  
- Thrust Load (F_a) = 10kg.

**Standard Backlash:** ≈ 1°.

**Output Shafts:** E20-X (Single), E20-DX (Double).

**Output Key:** KK2-22.

Special bores and other modifications are available. Please contact Technical Sales department.

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.

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### Output Torque Nm

<table>
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<tr>
<th>Rpm</th>
<th>1:1</th>
<th>2:1</th>
<th>3:1</th>
<th>4:1</th>
<th>5:1</th>
<th>8:1</th>
<th>10:1</th>
<th>20:1</th>
<th>40:1</th>
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<td>0</td>
<td>2.6</td>
<td>2.22</td>
<td>2.4</td>
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</table>

**Part Number**  
- E20-1: 1:1 Helical A 88% 4000 3.762 x 10^6  
- E20-2: 2:1 Helical A 86% 4000 2.349 x 10^6  
- E20-3: 3:1 Helical A 85% 4000 2.011 x 10^6  
- E20-4: 4:1 Helical A 84% 4000 1.986 x 10^6  
- E20-5: 5:1 Helical A 80% 4000 1.544 x 10^6  
- E20-8: 8:1 Wormwheel A 80% 2000 1.622 x 10^6  
- E20-10: 10:1 Wormwheel A 73% 2000 1.609 x 10^6  
- E20-40: 40:1 Wormwheel A 60% 2000 1.589 x 10^6  

**Special Ratios:** Replace SP with required ratio
- E20-SPA: 1:1 - 40:1 Low Backlash <30°: Replace SP with required ratio
- E20-SPLH: 1:1 - 40:1 Left Hand Helicals: Replace SP with required ratio

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[Diagram of Gearbox and Components]