From standard drive chains to specialty applications, Nothing Outlasts a Diamond®

Diamond Chain
ISO/British Standard Roller Chain

- **MATERIALS**
  The Diamond Difference begins with alloy steels that meet exacting standards of impact tensile and fatigue strength.

- **HEAT TREATMENT**
  Strict control of atmosphere, time, and temperature optimize the material properties – increasing strength, durability, and wear resistance.

- **FABRICATION**
  Diamond Chain manufactures each component to exacting standards for optimal performance.

- **SHOT PEENING**
  A proprietary shot peening process improves fatigue resistance by applying consistent compressive stresses.

- **LUBRICATION**
  Enhanced corrosion protection and extended wear life are provided by proprietary lubrication and a “hot dip” process on all lubricated chains.

- **PRELOADING**
  Chains are dynamically preloaded (prestressed) to firmly seat the pins and bushings. This reduces initial run-in and extends wear life.


**ISO/British Standard 10B-1 Accelerated Wear Test (time to wear limit)**

<table>
<thead>
<tr>
<th>MANUFACTURER</th>
<th>Accelerated Test Conditions: 1,172 rpm, 404.79 N tension, 3.5 horsepower, 21T x 21T sprockets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diamond</td>
<td></td>
</tr>
<tr>
<td>Mfg A</td>
<td></td>
</tr>
<tr>
<td>Mfg B</td>
<td></td>
</tr>
<tr>
<td>Mfg C</td>
<td></td>
</tr>
</tbody>
</table>
Diamond ISO/British Standard chain delivers best-in-class wear performance against the competition. Nothing Outlasts a Diamond

While a roller chain may initially appear to be a simple product, a section of five meter chain contains over a thousand parts – each one a potential point for failure. At every stage of the manufacturing process, The Diamond Difference is our commitment to quality that ensures you only receive the highest quality chain for your application.

Diamond Chain is part of the Timken Company, a global industrial leader of engineered bearings and mechanical power transmission products. By leveraging Timken's technical, manufacturing, and distribution resources, Diamond Chain is well positioned to deliver innovative products with unrivaled quality.

### ISO/British Standard roller chain types and options

<table>
<thead>
<tr>
<th>Type</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Steel</td>
<td>Carbon steel roller chain offers superior wear and fatigue performance in industrial applications.</td>
</tr>
<tr>
<td>Oval Contour</td>
<td>Oval contour roller chain features full oval contour linkplates for maximum plate rigidity in fatigue-critical applications.</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>Stainless steel roller chain is engineered for applications involving frequent water washdowns or exposure to chemicals (food and beverage, packaging, meat processing, baking, fertilizer, pharmaceutical, or medical applications).</td>
</tr>
</tbody>
</table>

**The Diamond Difference is our Commitment to Quality**

Since its founding in 1890, the Diamond Chain Company has been singularly focused on producing the best roller chain. It’s why the Wright Brothers chose Diamond Chain for their flying machine, why Henry Ford chose Diamond Chain for his automobile, and why thousands of companies choose Diamond Chain every day for their needs.