



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.

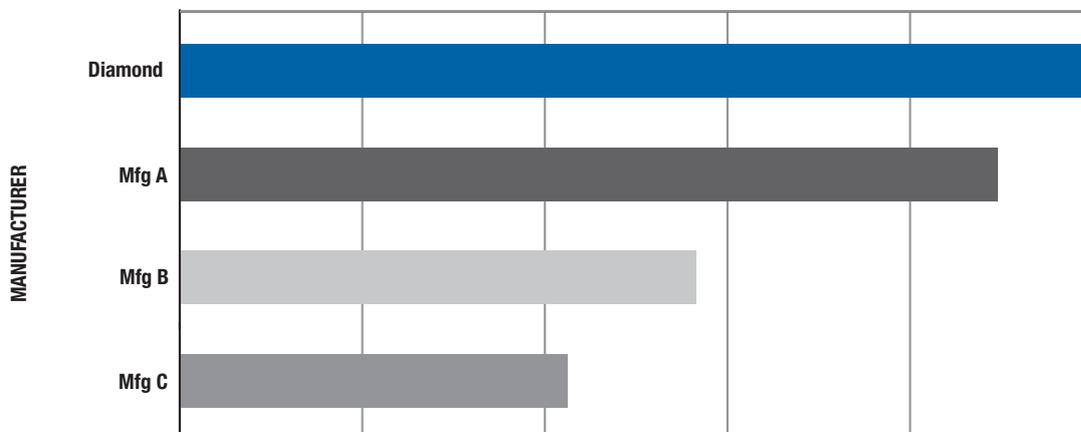
### ◆ PRELOADING

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

Diamond ISO/British Standard chain delivers best-in-class wear performance against the competition.

**Nothing Outlasts a Diamond.**

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



Accelerated Test Conditions : 1,172 rpm, 404.79 N tension, 3.5 horsepower, 21T x 21T sprockets



# 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

Type	Options
<b>Carbon Steel</b>	Carbon steel roller chain offers superior wear and fatigue performance in industrial applications.
<b>Oval Contour</b>	Oval contour roller chain features full oval contour linkplates for maximum plate rigidity in fatigue-critical applications.
<b>Stainless Steel</b>	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).
<b>Attachments</b>	A list of attachments is available for ISO/British Standard roller chain at <a href="http://www.diamondchain.com">www.diamondchain.com</a> . (add URL: <a href="https://www.diamondchain.com/wp-content/uploads/2017/03/attachment-A4-rev4.pdf">https://www.diamondchain.com/wp-content/uploads/2017/03/attachment-A4-rev4.pdf</a> ).

## 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.

# TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related power transmission rebuild and repair services.

**Stronger. By Design.**

[www.timken.com](http://www.timken.com)