

Brochure RC-03

**Emerson Power
Transmission**
www.emerson-ept.com/chain

Morse

**ROLLER
CHAIN**


EMERSON
Industrial Automation

Quality Driven

For over 100 years, MORSE high quality domestic chain has provided exceptional value to our customers. When you choose MORSE roller chain, you are choosing an experienced chain manufacturer dedicated to the production of quality chain products. At Emerson Power Transmission our engineering and quality departments work closely with our production staff to make certain that our chain is manufactured to meet or exceed industry standards. When deciding which chain manufacturer to use, consider MORSE for all of your chain needs.

CURL FORMED BUSHINGS



Each bushing is curl formed from strip steel to provide a smooth edge radius, surface finish, and inner and outer diameter concentricity for increased wear resistance, fatigue resistance, and chain pitch consistency. The lubrication hole allows for greater penetration and distribution of lubricant throughout the chain assembly.

SOLID ROLLERS



Our solid rollers are extruded to an optimal wall thickness designed to handle a full range of steady and shock loads. MORSE rollers are shot peened and custom heat treated for improved impact and fatigue resistance.

CARBURIZED PINS



Alloy steel is used to create pins, which are case hardened and precision ground for additional strength and extended wear life.

PARALLEL PUNCHED LINK PLATES

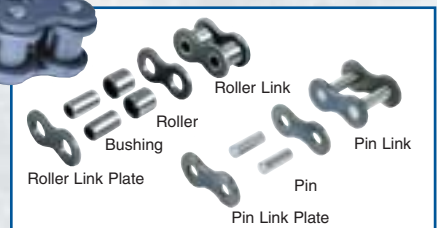


MORSE link plates are parallel punched for maximum resistance to cracking, heat treated for uniform hardness, and shot peened for increased strength. During our manufacturing process, MORSE link plate apertures are shaved, chamfered, and ballized for increased fatigue strength.



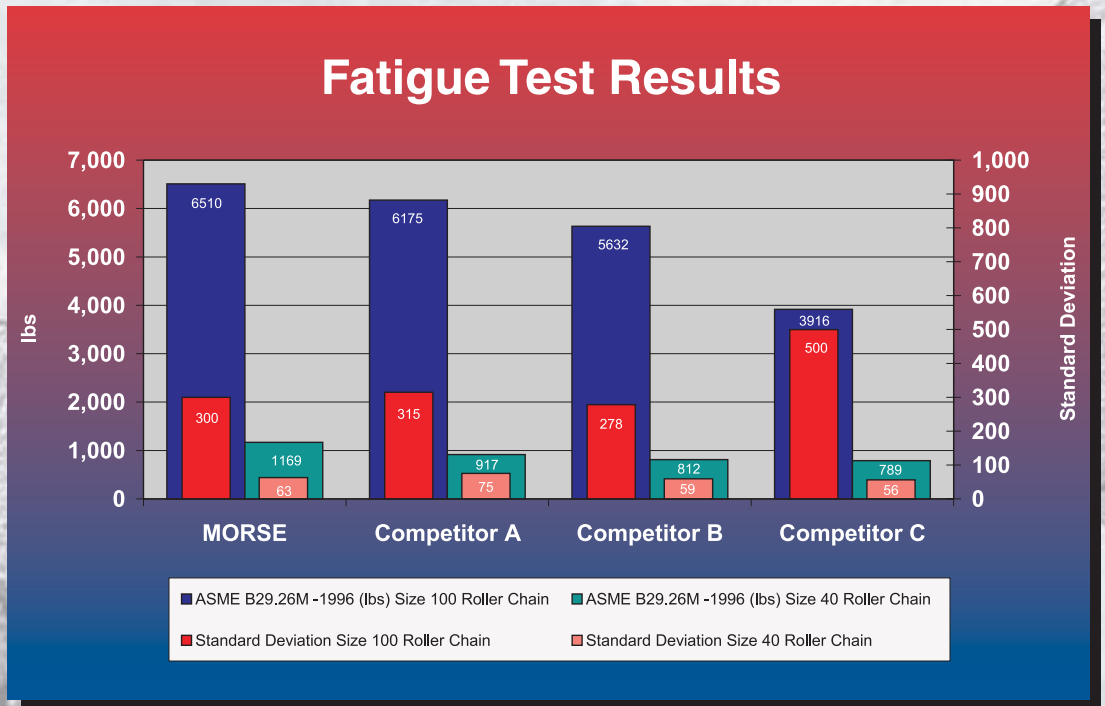
ASSEMBLY

During the assembly process, our roller chain is pre-stressed to avoid excessive early chain wear leading to less frequent take-up adjustments.



Proven Performance

At Emerson Power Transmission we believe that leadership is built upon experience and exceptional performance. Through our manufacturing process, we have produced chain that will thrive in environments where cyclical or fluctuating loads cause problems. We have performed fatigue testing to compare MORSE roller chain against our toughest competitors. The results confirm that in both small (size 40) and large (size 100) pitch, MORSE roller chain succeeds in providing outstanding fatigue strength. If you still have any doubts about our ability to provide the best chain possible, please call our Technical Service Department at (800) 626-2093.



Browning Chain Drive Sprockets

EMERSON POWER TRANSMISSION OFFERS THE WORLD'S LARGEST SELECTION OF APPLICATION-MATCHED, SHAFT-READY SPROCKETS

That's your assurance of maximum drive efficiency at the lowest evaluated cost

You can choose from the world's largest selection of high-quality, shaft-ready sprockets to solve all your application problems. In-stock hardened sprockets, a BROWNING specialty, are warranted to last at least twice as long as the standard (unhardened) mild steel sprockets they replace. The result is increased chain life and reduced downtime.

Additionally, you have the industry's broadest selection of sprocket mounting choices. Sprockets are available with three types of bushings, finished bore and minimum bore to ensure secure mounting to shaft:



- Patented BROWNING® **SPLIT TAPER™** Bushing — available in inch and metric sizes, as well as with spline bores; bore range 1/4-10". This unique bushing design offers key to key drive for positive lock and high torque carrying capacity.
- **Q-D®** Bushing in 1/16 inch increments and metric sizes
- **TAPER BORE™** in the same configurations
- Finished Bore Sprockets are provided with Hardened Teeth and 2 Setscrews for driver sprockets, (30 teeth and smaller)
- Minimum Bore Sprockets are provided from stock to allow for our customers' requirements for simple modifications with same day delivery service

The combination of the above provides one of the broadest selections of stock sprockets in the industry. EPT continues to provide BROWNING custom sprockets for a variety of applications up through 60" diameters.

MORSE roller chains are suitable for your most demanding applications. Listed below are examples of the variety of roller chain we offer. For made-to-order inquiries, please contact Emerson Power Transmission technical service department at (800) 626-2093 and let us help you choose the chain best suited for your application.



ANSI Roller Chain

- Available in 1/4 " - 2", 2 1/2" pitch and widths ranging from 1 - 8 strands wide
- Created for applications requiring high horsepower at low speeds

Corrosion Resistant Chain

- Available in 1/4" - 1" pitch in Nickel Plated, Moisture Guard™, Custom Moisture Guard™ and Stainless Steel
- Plated before assembly for thorough corrosion protection
- Size 35-80 stocked - other sizes and special attachments available upon request



Heavy Series Chain

- Available in 3/4", 2", and 2 1/2" pitch ranging from 1 - 7 strands wide
- Link plates are equivalent to the thickness of the next larger pitch ANSI roller chain
- Designed for applications subjected to heavy shock loads

Leaf Chain

- Available with various plate lacing construction in 1/2" - 2" pitch
- Assembly is constructed from link plates and riveted pins
- Designed for frequent lifting at low speeds



Sticker Chain

- Available in 1/2", 5/8" and 1" pitch with one, two or three sticker points
- Primarily utilized in agricultural and wood product applications



Attachment Chain

- Dedicated Specialty Chain Center to provide customer service - contact them at 1-888-ept-scc3 (1-888-378-7223)
- Manufactured from carbon steel or your choice of corrosion resistant engineered solutions (CRES)
- Available in 3/8" - 2" pitch with straight, bent, extended pin, wide tab and other special attachments
- Made-to-order and laser cut capabilities
- Fast Service - orders up to 500 ft may be assembled from stock components and shipped within 5 days - at no additional charge

Sintered Bushing Chain

- Available in 4 sizes - 1/2", 5/8", 3/4" and 1" pitches
- Created for slow speed applications where external lubrication is impractical
- Speed capability up to 600 feet per minute
- Dimensionally interchangeable with ANSI roller chain for operation on ANSI sprockets
- Packaged for "off-the-shelf" availability



Rollerless Hoist Chain

- Available in 3 sizes - 3/4", 1" and 1 1/4" pitches
- Manufactured without rollers
- Designed for lift applications where low friction joint articulation is important
- Developed for usage with sheaves or rollers instead of sprockets

Double Pitch Conveyor Chain

- Available in 1" - 3" pitch in standard roller, large roller and attachment chain
- Manufactured with heavy side plates and full contact edges for longer wear
- Designed for conveyor applications where chain will slide over a surface



Wrench Chain

- Available in 5/8" pitch
- Average ultimate tensile strength is 7,400 lbs
- Assembled with high - strength extended pins for proper engagement in clevis or wrench tool
- Engineered center plates have a slip fit to assure smooth articulation, while outside plates have an interference fit



Type of Chain: ANSI Roller Chain

Industry: Farming

Application: Dispenses cornseed

Other Industries: Oilfield, Mining, Wood Products, Packaging

Other Applications: Balers, Combines, Conveyors

Type of Chain: Corrosion Resistant Chain

Industry: Food and Beverage

Application: Conveys packages through filling and sealing lines

Other Industries: Bulk Material

Other Applications: Conveyors



Type of Chain: Heavy Series Roller Chain

Industry: Oilfield

Application: Compound Drive

Other Industries: OHV, Coal Mining

Other Applications: Skid Steers, Road Graders

Type of Chain: Leaf Chain

Industry: Material Handling Equipment

Application: Used on the mast of lift trucks to elevate and lower the fork carriage

Other Industries: Automotive Maintenance

Other Applications: Lifts



Photo courtesy of Wobark, Inc.

Type of Chain: Sticker Chain

Industry: Lumber Industry

Application: Debarking Equipment

Other Industries: Agriculture, Poultry, Wood Products

Other Applications: Sugarcane Harvester, Thermoforming Equipment



Type of Chain: Attachment Chain

Industry: Tobacco

Application: Pulls tobacco off the stalk

Other Industries: Packaging, Bottling, Food and Beverage

Other Applications: Drive Systems, Corn Pickers, Sorting Machines, Conveyors (windshields, electronic components)

Type of Chain: Sintered Bushing Chain

Industry: Printing/Publishing

Application: Used to convey product from the binder/stitcher to the carousel.

Other Industries: Packaging, Vending Machines, Agriculture, Construction

Other Applications: Feeders, Dryers



Type of Chain: Rollerless Hoist Chain

Industry: Material Handling Equipment

Application: Used on the mast of lift trucks to elevate and lower the fork carriage

Other Industries: Automotive Maintenance

Other Applications: Lifts/Hoisting Equipment

Type of Chain: Double Pitch Conveyor Chain

Industry: Agriculture

Application: Extract/Discharge Sugarcane

Other Industries: Food and Beverage, Material Handling, Packaging

Other Applications: Conveyors



Type of Chain: Wrench Chain

Industry: Manufacturing

Application: Used to grip piping

eCommerce Capabilities

◆ Comprehensive Website

- Consultative Engineering Support
 - EDGE®
 - Chain Drive Selection
 - CAD Drawings in 2D and 3D Models
 - Smart Interchange
 - eCatalog/Product Literature
 - Product Training

■ Transaction Capabilities

- eLINK*
 - Inventory/Pricing Visibility
 - Quote/Order Entry and Review
 - Purchase Order Acknowledgment
 - Advance Ship Notices

◆ Electronic Data Interchange (EDI)*

- Order Status Report
- Shipment and Billing Notices



* These tools available to customers with an Emerson Power Transmission account number.

**For More Information Contact
Customer Service at 1-800-626-2120**

www.emerson-ept.com/chain
CONNECT HERE AND EXPERIENCE THE POWER

**Emerson Power
Transmission**

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APPLICATION CONSIDERATIONS

The proper selection and application of power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Emerson Power Transmission Corporation and its divisions with respect to the use of products and components is given in good faith and without charge, and Emerson assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

For a copy of our **Standard Terms and Conditions of Sale, Disclaimers of Warranty, Limitation of Liability and Remedy**, please contact BROWNING customer service, 1-800-626-2120. These terms and conditions of sale, disclaimers and limitations of liability apply to any person who may buy, acquire or use an Emerson Power Transmission Corporation product referred to herein, including any person who buys from a licensed distributor of these branded products.