



**QT  
Power Chain® II  
Belt Drive  
System  
Outperforms  
Roller Chain**

**NEW**



 **TB Wood's®**  
*Incorporated*

*An Altra Industrial Motion Company*



TB Wood's QT Power Chain II belt drive systems are designed for use in a variety of industries including:

- Lumber
- Pulp & Paper
- Packaging
- Food Processing
- Bottling
- Aluminum & Steel
- Petrochemical
- Sand, Gravel & Concrete
- Glass

These high performance drive systems are specifically designed for tough applications such as:

- Belt Conveyors
- De-barkers
- Dough Mixers
- Scrap Cutters
- Compressors
- Bucket Conveyors
- Grinders
- Carton Sealers
- Dryers
- Screw Conveyors
- Pumps
- Palletizers

## QT Power Chain® II belt drive systems outperform and outlast standard roller chain - at a lower overall cost.

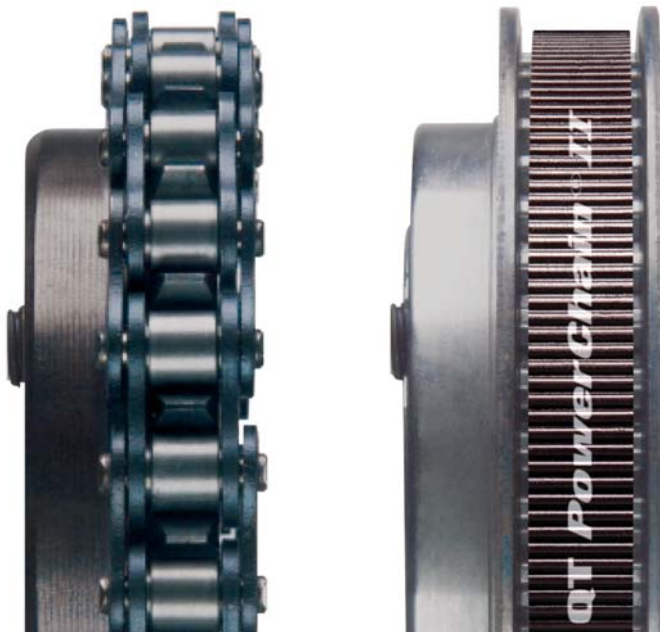
TB Wood's QT Power Chain II synchronous belt drive system is the optimal choice for high performance and life cycle value in a wide variety of high-torque drive applications. When compared to standard roller chain, this powerful belt drive system provides important performance advantages and significantly reduces overall costs for end-users.

### The costs of roller chain add up fast:

- Lubrication system equipment and maintenance
- Lubricant cost and disposal
- Lubrication contamination of product
- Frequent retensioning of "stretched" chain
- Expensive drive enclosures/noise guards
- Broken chain replacement
- Worn sprocket replacement
- Regular maintenance downtime
- Safety issues

### QT Power Chain II advantages over roller chain:

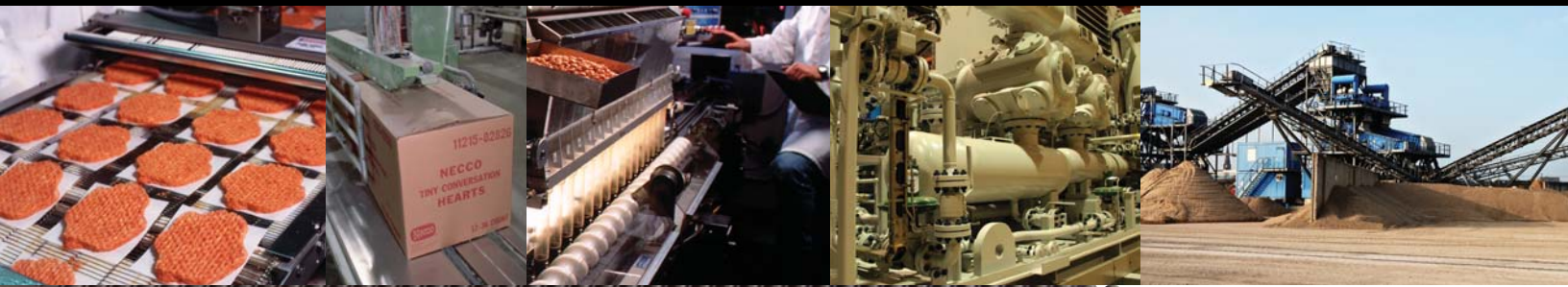
- Belts outlast roller chain 3-to-1
- Sprockets outlast roller chain sprockets 10-to-1 or more
- Maintenance free system
- Minimal or no downtime
- No lubrication
- No expensive oil baths
- No retensioning
- Accurate and precise – no chain slop
- Quieter operation
- Minimal vibration due to chordal action
- Resistant to chemical and contaminants
- Excellent shock load resistance



### Power Ratings

This is the optimal choice in meeting your needs for low-speed (below 500 RPM), high-torque drive applications. The QT Power Chain II belt drive system will transmit positive power over a wide range of loads, while withstanding power surges and shock loading.

Many QT Power Chain II belt drive systems have equivalent capacity to roller chain drives in the same width.



Tooth construction delivers high horsepower, exceptional tooth shear strength, reduced friction and eliminates the need for lubrication.

Aramid fiber tensile cords provide extraordinary load carrying capability, incredible strength and virtually zero elongation.

Tough polyurethane compound resists oils, chemicals, pollutants and abrasion.

## **Tough enough to outlast standard roller chain 3-to-1.**

The body and teeth of QT Power Chain II belts are made of a durable polyurethane compound, specially blended for uncompromising adhesion to the tensile cords, plus the teeth are reinforced with a heavy wear-resistant nylon facing. This allows for exceptional tooth shear strength and excellent flex life. The belt gets its muscle from Aramid fiber tensile cords. It performs flawlessly under the harshest operating conditions, virtually immune to abrasion and chemical attack. The cords provide high impact strength to handle shock and surge loading. And with no metal-to-metal contact between belt and sprockets, sprocket life increases over roller chain sprockets by an even higher ratio – 10-to-1 more.

## **Replaces roller chain - virtually size for size.**

QT Power Chain II belts and sprockets have increased power ratings up to 40 percent higher than QT Power Chain. This allows drive systems to be designed in widths narrower and more compact than ever before. Many QT Power Chain II sprocket hub sizes are identical to standard roller chain sprockets. With over countless drive combinations to choose from, you can take advantage of QT Power Chain II benefits by replacing roller chain drives, particularly in, but not limited to, the #35 to #120 pitch range.

## **Get the most from your drive system with TB Wood's Sprockets and Bushings**

QT Power Chain II sprockets utilize the Taper-Lock bushing system. This keeps the hubs narrow so the sprockets will fit on applications with short shafts. In addition, the left-justified hub design allows shaft mounting close to outboard bearings. This keeps the center of load dimension small, so overhung load values are as low as possible.



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**1-315-432-0700**

**Asia Pacific Sales Offices**

**Australia**

Unit 51/9, Hoyle Avenue  
Castle Hill, NSW 2154  
**+61 2 9894 0133**  
**+61 2 9894 0368** (Fax)  
www.warnerelectric.com.au

**China - Hong Kong**

Room 304A, 3rd Floor  
Join-In Hang Sing Centre  
71-75 Container Port Rd.  
Kwai Chung, Hong Kong  
**+852 2615 9313**  
**+852 2615 9162** (Fax)  
www.warnerelectric.com.hk

**China - Shanghai**

Shanghai Universal Mansion  
Suite 703, 168 Yuyuan Road,  
Shanghai 200040  
**+86 21 5169-9255**  
**+86 21 6248 5387** (Fax)  
www.altramotion.com.cn

**China - Taiwan**

3rd Fl., No. 35, Lane 32  
Kwang-Fu, South Road  
10562 Taipei  
**+886 2 2577 8156**  
**+886 2 2570 6358** (Fax)  
www.wamerelectric.com.tw

**Singapore**

39 Benoi Road  
Singapore 627725  
**+65 6487 4464**  
**+65 6487 6674** (Fax)  
www.warnerelectric.com.sg

**Thailand**

178 Soi Anamai Srinakarini Rd.,  
Suanluang Bangkok 10250  
**+66 2 322 5527**  
**+66 2 320 2380** (Fax)  
www.wamerelectric.co.th

For more information, or to contact authorized agents in Japan, Korea, India, or elsewhere in Asia Pacific, send an email to: ap@altramotion.com



www.tbwoods.com

440 North Fifth Avenue  
Chambersburg, PA 17201 - USA  
888-829-6637 • 717-264-7161  
Fax: 717-264-6420