



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

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

Heavy-duty belts combined with Taper-Lock sprockets and bushings make QT Power Chain® II belt drive systems the optimal choice for high-performance in high-torque drive applications.

The QT Power Chain II belt drive system from TB Wood's consists of a synchronous belt, sprockets, bushings and idlers that are all designed to work together to deliver the best value in power transmission – whether the application is low-speed or high-speed. When compared with standard roller chain, this powerful belt drive system provides important performance advantages and significantly reduces overall costs. The new sizes of belts and sprockets along with increased power ratings (up to 40% higher than its predecessor) allow QT Power Chain II drive systems to be designed in widths narrower and more compact than ever before.

QT Power Chain II System advantages compared to ROLLER CHAIN:

- Longer drive life
- No lubrication required
- Less noise
- Identical hub sizes

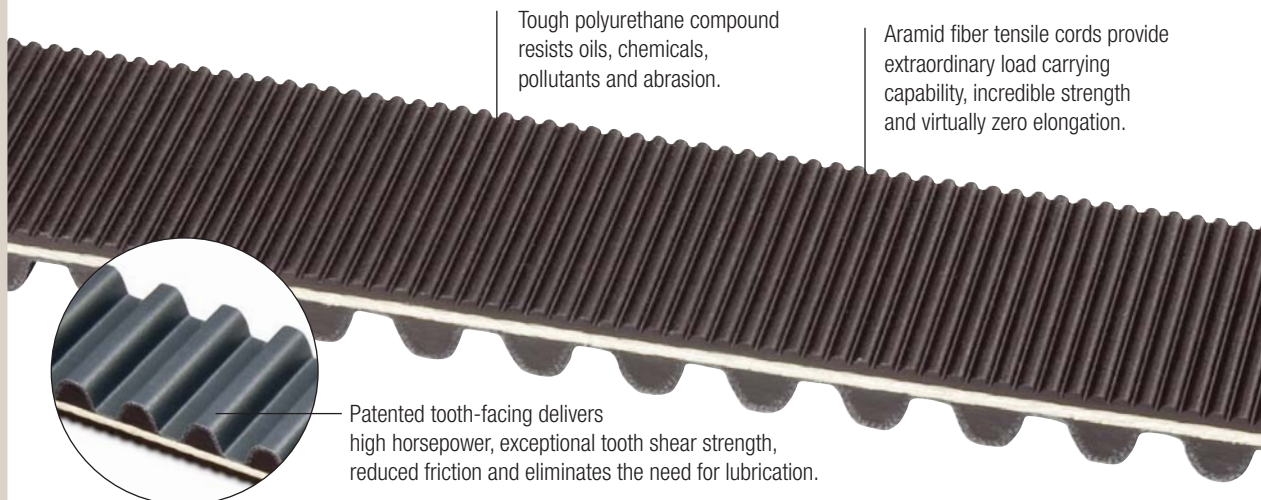
QT Power Chain II System advantages compared to QT POWER CHAIN:

- Increased power ratings
- Narrower sprocket profiles
- Taper Lock bushing system

Belts built for maximum strength

The result of state-of-the-art design and engineering, 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 and heavy nylon tooth facing. The result is a belt that is virtually immune to abrasion and chemical attack.

QT Power Chain II belts get their muscle from Aramid fiber tensile cords and perform flawlessly under the harshest operating conditions. The cords provide exceptional flex fatigue life and high impact strength to handle shock and surge loading. These belts are tough enough to outlast standard roller chain 3-1. With no metal-to-metal contact between belt and sprocket, sprocket life increases significantly over roller chain sprockets by a ratio of 10 to 1.

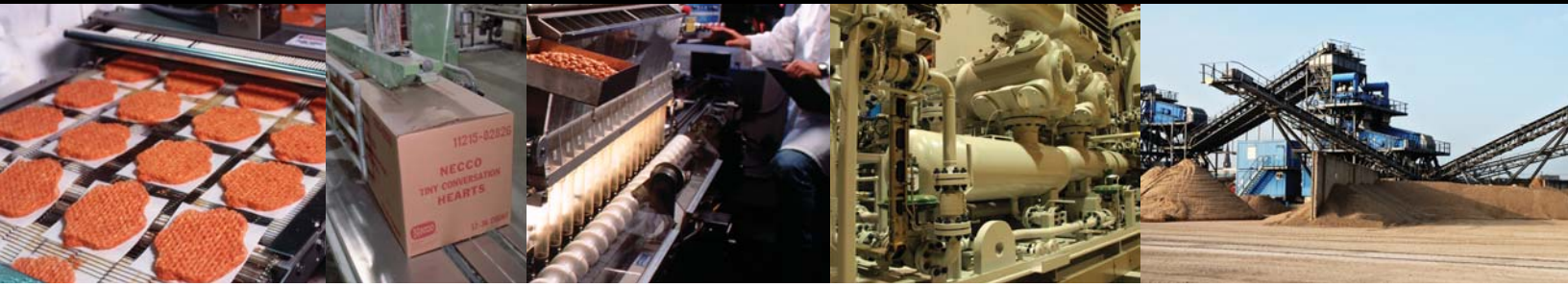


Tough polyurethane compound resists oils, chemicals, pollutants and abrasion.

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



Patented tooth-facing delivers high horsepower, exceptional tooth shear strength, reduced friction and eliminates the need for lubrication.



Get the most from your drive system with TB Wood's Taper-Lock Sprockets and Bushings

QT Power Chain II sprockets are designed to carry hefty belt power loads utilizing the robust, industry-proven Taper-Lock bushing system. Taper-Lock bushings are split through the flange and gradual taper to provide a true clamp fit on the shaft that is the equivalent of a shrink fit.

The Taper-Lock bushing system keeps the sprocket hubs narrow so the length-thru-bore dimension is less than ever before. The left-justified hub design allows shaft mounting close to bearings, keeping the center of load dimension small while preventing issues with high overhung loads.

QT Power Chain II Sprocket advantages include:

- GT2 tooth profile
- 8mm and 14mm pitch
- Taper-Lock bushing interface
- Left justified hub
- Industry-proven robustness
- True running, concentric
- Easy installation and removal
- Installs with less axial sprocket movement than other bushing systems

QT Power Chain II design flexibility:

- 8mm Pitch
Drive combinations: 66,600+
Speed Ratios: 336
- 14mm Pitch
Drive combinations: 51,500+
Speed Ratios: 500
- Operating Temperature Range:
-65°F to +185°F (-54°C to +85°C)



Custom sprockets available

For unique or unusual sprocket requirements, TB Wood's can design and manufacture custom sprockets in our on-site foundry. Typically, Request for Quote (RFQs) are processed within 48 hours. Call 888-829-6637 (press 7).



Electromagnetic Clutches and Brakes

Warner Electric

Electromagnetic Clutches and Brakes

New Hartford, CT - USA
1-800-825-6544

For application assistance:
1-800-825-9050

St Barthelemy d'Anjou, France
+33 (0) 2 41 21 24 24

Precision Electric Coils and Electromagnetic Clutches and Brakes

Columbia City, IN - USA
1-260-244-6183

Matrix International

Electromagnetic Clutches and Brakes, Pressure Operated Clutches and Brakes

Brechin, Scotland
+44 (0) 1356 602000

New Hartford, CT - USA
1-800-825-6544

Inertia Dynamics

Spring Set Brakes; Power On and Wrap Spring Clutch/Brakes

New Hartford, CT - USA
1-800-800-6445

Overrunning Clutches

Formsprag Clutch

Overrunning Clutches and Holdbacks

Warren, MI - USA
1-800-348-0881 – Press #1

For application assistance:
1-800-348-0881 – Press #2

Marland Clutch

Roller Ramp and Sprag Type Overrunning Clutches and Backstops

Burr Ridge, IL - USA
1-800-216-3515

Stieber Clutch

Overrunning Clutches and Holdbacks

Heidelberg, Germany
+49 (0) 6221 30 47 0

Engineered Couplings

Ameridrives Couplings

Mill Spindles, Ameriflex, Ameridisc

Erie, PA - USA
1-814-480-5000

Gear Couplings

San Marcos, TX - USA
1-512-353-4000

Bibby Transmissions

Disc, Gear, Grid Couplings, Overload Clutches

Dewsbury, England
+44 (0) 1924 460801

Boksburg, South Africa
+27 11 918 4270

TB Wood's

Elastomeric Couplings

Chambersburg, PA - USA
1-888-829-6637 – Press #5

For application assistance:
1-888-829-6637 – Press #7

General Purpose Disc Couplings

San Marcos, TX - USA
1-512-353-4000

Ameridrives Power Transmission

Universal Joints, Drive Shafts, Mill Gear Couplings

Green Bay, WI - USA
1-920-593-2444

Huco Dynatork

Precision Couplings and Air Motors

Hertford, England
+44 (0) 1992 501900

Charlotte, NC - USA
1-800-825-6544

Linear Products

Warner Linear

Linear Actuators and Guideways

Belvidere, IL - USA
1-800-825-6544

For application assistance:
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+33 (0) 2 41 21 24 24

Heavy Duty Clutches and Brakes

Wichita Clutch

Pneumatic Clutches and Brakes

Wichita Falls, TX - USA
1-800-964-3262

Bedford, England
+44 (0) 1234 350311

Twiflex Limited

Caliper Brakes and Thrusters

Twickenham, England
+44 (0) 20 8894 1161

Industrial Clutch

Pneumatic and Oil Immersed Clutches and Brakes

Waukesha, WI - USA
1-262-547-3357

Gearing

Boston Gear

Enclosed and Open Gearing, Electrical and Mechanical P.T. Components

Charlotte, NC - USA
1-800-825-6544

For application assistance:
1-800-816-5608

Nuttall Gear and Delroyd Worm Gear

Worm Gear and Helical Speed Reducers

Niagara Falls, NY - USA
1-716-298-4100

Belted Drives and Sheaves

TB Wood's

Belted Drives

Chambersburg, PA - USA
1-888-829-6637 – Press #5

For application assistance:
1-888-829-6637 – Press #7

Engineered Bearing Assemblies

Kilian Manufacturing

Engineered Bearing Assemblies

Syracuse, NY - USA
1-315-432-0700

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