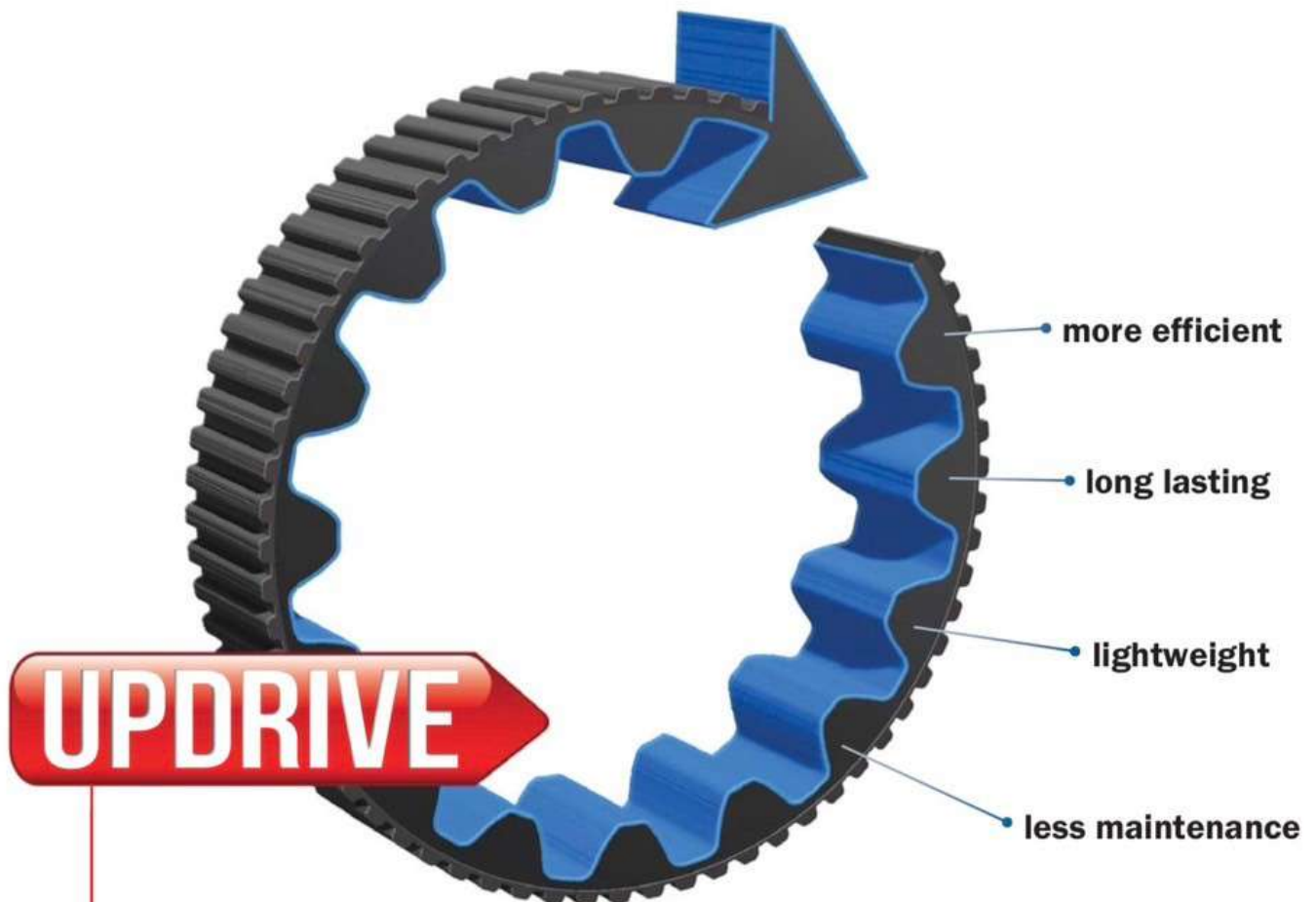


POLY CHAIN® GT® CARBON™

INDUSTRY LEADING POWER TRANSMISSION TECHNOLOGY



- **verb:** to improve productivity + profits
- **noun:** actualized results

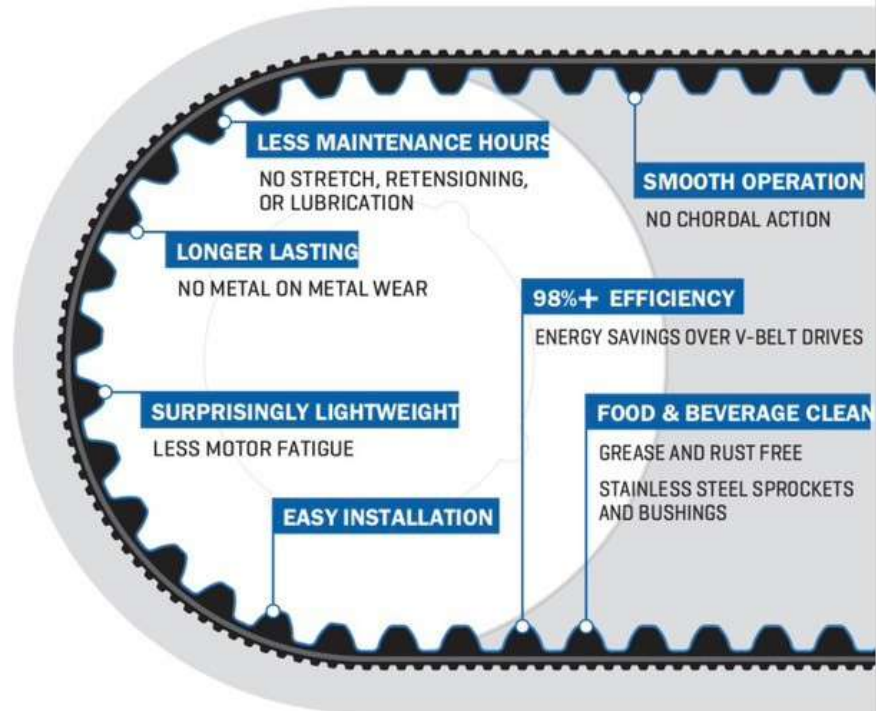


DRIVEN BY POSSIBILITY™

UPDRIVE

with Poly Chain GT Carbon synchronous belts - eliminate downtime and increase production and profits.

Gates Poly Chain GT Carbon is the profitable solution to replace roller chain, gears and large V-belt drives. Our industry leading power transmission technology drives savings day after day.



INTRODUCING

GATES POLY CHAIN GT CARBON EXTENDED LENGTH

Poly Chain drive solutions now handle longer center distances than ever before.

MANUFACTURING CAPABILITIES PITCH 14mm & 19mm

Minimum Length: 4480mm

Maximum Length: 10,000mm – 20,000mm*

Minimum Width: 37mm

Maximum Width: 300mm

* Maximum belt lengths are influenced by belt width.

LEARN MORE:

www.gates.com/extendedlength



POLY CHAIN® GT® CARBON™

TEMPERATURE RANGE

-65 °F (-53 °C)

POLY CHAIN

+185 °F (+85 °C)



MAINTENANCE LABOR SAVINGS



LOWER COMPONENT COSTS



LUBRICATION, CLEAN UP, AND
DISPOSAL: ELIMINATED

Save more than you think:

www.gates.com/chainpain

\$276K

\$10K

\$53K

\$330,000
Annual Savings*

*NOT INCLUDING INCREASED
PRODUCTION PROFITS

High Power Density

97% Less Weight

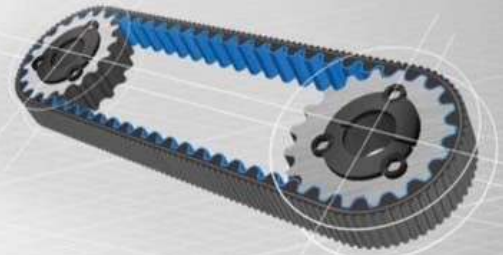
Long Belt & Sprocket Lives



Improve Drive Performance

Whether you're developing, tweaking or validating your design, Gates has the resources you need.

GatesDesignCenter.com

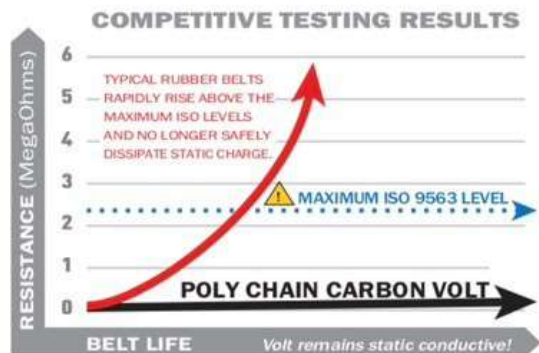


VOLT POLY CHAIN CARBON VOLT™

Antistatic Excellence - Start to Finish

Poly Chain Carbon Volt belts maintain static conductivity to ISO 9563 levels many times longer than the competition. No other rubber or polyurethane belt can match it.

Remember, when belt drive systems are located in potentially hazardous environments, a secondary means of dissipation such as static grounding brushes is recommended.



GT POLY CHAIN® GT® CARBON™ High Temperature

Poly Chain® GT Carbon TM High Temperature

Special polyurethane compound provides superb heat resistance. It enables the belt to remain fully operational under extreme temperatures ranging up to 120°C and even up to 140°C during shorter periods;

Poly Chain® GT Carbon TM Hot Oil

Special polyurethane compound provides superb oil and heat resistance, ensuring a problem-free operation in oil environments at temperatures ranging up to 120°C



Poly Chain® GT® Carbon™ belts make an excellent alternative to roller chains, requiring neither re-tensioning nor lubrication. Space-saving, weight-saving and money-saving, Poly Chain® GT® Carbon™ drives offer a long and reliable service life.

19M 19M POLY CHAIN® GT® CARBON™

Welcome to the BIG TIME

Now in 19M pitch to replace even bigger roller chain, open gears, and wide V-belt drive systems.

20 POUNDS PER FOOT LIGHTER, YET

- > Strong enough for the job
- > Equal in performance
- > Superior life in adverse conditions

ADV POLY CHAIN ADV™

The strongest belt in the industry

At 15% stronger, Poly Chain ADV is the answer for challenging applications with limited space requirements.

WHEN POLY CHAIN REPLACES ROLLER CHAIN

97% WEIGHT
SAVINGS

100% MAINTENANCE
SAVINGS

**NARROWEST+LIGHTEST
DRIVES POSSIBLE**

WHEN POLY CHAIN REPLACES V-BELTS

82% WIDTH
SAVINGS

49% WEIGHT
SAVINGS

21% COST
SAVINGS

48% LESS
FORCE ON
BEARINGS

Singapore (East Asia & India) HQ
3A International Business Park
Unit: #10-01/05 ICON@IBP,
Tower A Singapore 609935

Tel: +65-6832-2368
Fax: +65-6659-1607

Malaysia
11th Floor, Unit A1101,
West Wing Wisma Consplant 2,
No. 7 Jalan SS16/1, 47500 Subang Jaya,
Selangor Darul Ehsan, Malaysia
Tel: +60-3-5033 4588
Fax: +60-3-5033 4546



For enquiries, please contact Singapore office
Email: marketing.GIS@gates.com, Website: www.gates.com



CASE STUDY PROCESS, SPECIALTY

INDUSTRY

- › Bottling

APPLICATION

- › Conveyor that fed bottles into a production line for labeling

ORIGINAL DRIVE DESCRIPTION

- › #60 Roller chain drive

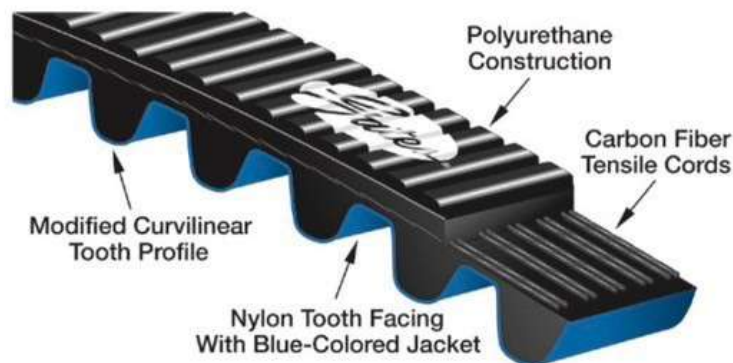


Problem

The chain stretched unevenly, causing variations in length and speed of the conveyor. This caused the bottles to pile up and break. As a result, the entire line had to be shut down so the chain could be retensioned, which caused downtime, maintenance, and scrapped product costs to skyrocket.

Solution Drive Description

Poly Chain® GT® Carbon™ drive



Benefits of Gates Drive

The Gates drives eliminated stretching so speeds were consistent, which in turn eliminated scrapped product and downtime. The maintenance costs associated with the roller chain such as lubrication and retensioning were also eliminated. All together, the company saved over \$300K per year with the maintenance free Poly Chain GT Carbon drive.

SUBMITTED BY: JEFFREY PORTELLI

WITH OVER 100 YEARS OF EXPERIENCE,
GATES PRODUCTS ARE TRUSTED BY PROFESSIONAL
TECHNICIANS AROUND THE WORLD.

SEE MORE AT [GATES.COM/CASESTUDIES](https://www.gates.com/casestudies)

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[GATES.COM](https://www.gates.com)

Follow GatesAuto





Why tough products make life easy

We know many needless hours are spent at beverage plants lubricating and re-tensioning roller chain drives when those efforts could be focused elsewhere. We also know we have a better option. Gates Poly Chain® GT® Carbon™ belt is part of a powerful synchronous drive system that outperforms roller chain in the toughest beverage manufacturing conditions.

- Lasts three times longer than roller chain
- No stretch, no lubrication and no metal-on-metal parts wear
- Ideal for wash down applications as it resists moisture, chemicals and abrasion
- Less maintenance means less downtime

Roller chain drives can become messy with required lubrication and are prone to rust and wear, resulting in additional maintenance.



Gates Poly Chain® drives require no lubrication or maintenance, extending performance life.

BY SWITCHING ROLLER CHAIN TO GATES POLY CHAIN®

YOU CAN SAVE UP TO \$624,000

BY ELIMINATING 3,120 MINUTES OF DOWNTIME OVER THE COURSE OF TWO YEARS:

LEARN MORE AT GATES.COM/BEVERAGE OR CONTACT YOUR GATES DISTRIBUTOR.

\$200 x 3,120 minutes for each minute of maintenance over the course of two years



Poly Chain[®] GT[®] Carbon[®]

- **Last 3X Longer than Roller Chain**
- **No Stretch, no lubrication and no metal-on-metal part wear**
- **Ideal for washdown applications as it resists moisture, chemicals and abrasion**
- **Less maintenance means less downtime**



Roller chain drives can become messy with required lubrication and are prone to rust and wear, resulting in additional maintenance.

Gates Poly Chain[®]

Drives require no lubrication or maintenance, extending performance life



Poly Chain[®] GT[®] Carbon[®]



ORIGINAL COMPONENTS

Belts = 8 x SPC3550 V-Belts

Driver Pulley = 8/SPC315

Driven Pulley = 8/SPC800

Total drive width = 213mm

Total weight of belt drive 200kg*



SOLUTION COMPONENTS

Belts = 14MGT-3136-90

Poly Chain GT Carbon

Driver Sprocket = 56 Tooth

Driven Sprocket = 140 Tooth

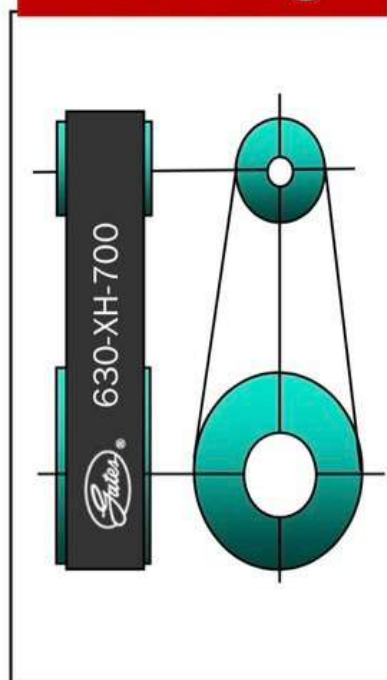
Total drive width = 107mm

Total weight of belt drive 83kg*

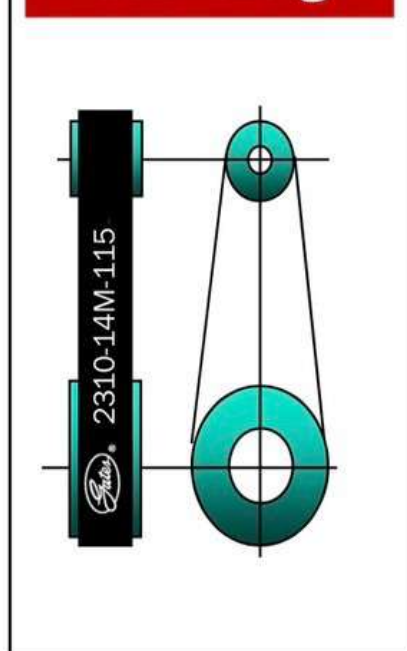


Drive Package Comparison

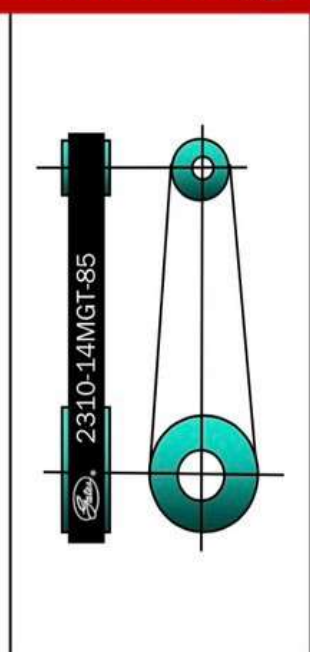
CTB-64 Kg



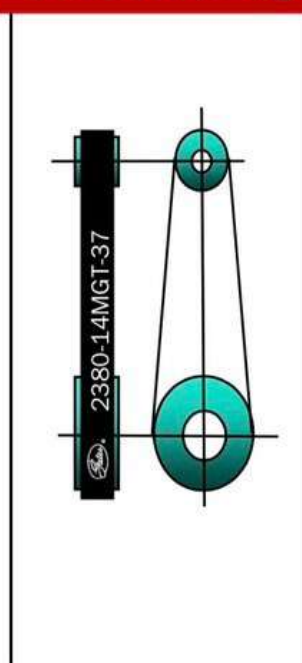
HTD-42 Kg



PGGT3-29 Kg

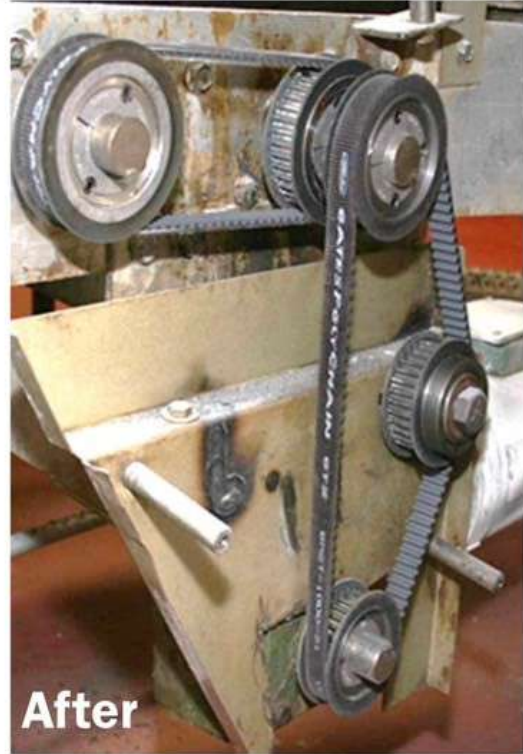


PCGTC-17 Kg





Poly Chain® GT® Carbon®



Poly Chain® GT Carbon™ exceeds typical roller chain power ratings

- Clean (no contamination)
- No rust
- Longer service life
- Increased MTF
- Can run at higher speeds
- No lubrication
- Quiet
- Smoother running
- Lighter