



POLY CHAIN®

THE GATES BELT-DRIVE-SOLUTIONS

- 3x Longer Life
- Requires no lubrication
- Virtually maintenance free, with no re-tensioning required
- Significantly reduced weight and noise
- Carbon tensile cord does not stretch
- Belt sprockets good for 2 to 3 belt changes
- Increased uptime
- No crane rental to replace the belt

8M x 12 mm

Increased safety

8M-12

8M-21

8M-36

8M-62

14M-20 14M-37

14M-68

Width (mm)

14M-68

14M-90

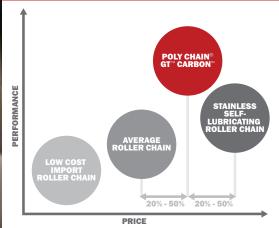
14M-125

19M-100

19M-150 19M-200 19M-250

Can reach virtually any center distance

THE BENEFITS EASILY PAY FOR THE COST TO UPGRADE PAYBACK PERIOD IN 6-12 MONTHS



Absolute performance of roller chain and Poly Chain will vary by application Price comparison is for belt, sprockets and bushings vs. chain, sprockets and bushings

62.7 50.8 91.9

#80-2 #120 #80-3 #100-2

19M x 300 mm

POLY CHAIN PORTFOLIO LENGTHS AVAILABLE UP TO 65.6 FT (PITCH DEPENDENT) PITCHES AVAILABLE 5MM, 8MM, 14MM, 19MM WIDTHS AVAILABLE 9MM TO 300MM **TEMPERATURE RANGE** -65F TO +185F **CONSTRUCTION** CARBON TENSILE CORDS; TRULY ENDLESS **OTHER FEATURES** HIGH-MODULUS CORD WHICH ALLOWS USE OF BACKSIDE IDLER

POLY CHAIN® EXTENDED LENGTH

Gates' innovative carbon tensile technology and extended length polyurethane belting ability enables asphalt manufacturers to have higher uptime, lower maintenance, multiyear solution longevity, and greatly reduced multi-year operating costs.

POLY CHAIN® ADV™

Higher power than you've reached before. Narrower drives than ever before. Poly Chain ADV™ is designed for significantly reduced weight and maintenance in your high-torque applications with limited space constraints.

POLY CHAIN® CARBON™ VOLT®

Suitable for high torque, low speed drives and environments with explosive atmospheres, Poly Chain[®] Carbon[™] Volt[®] is Static conductive to ISO 9563 throughout the lifetime of the

19M-300

Chain size ordered in increasing load capacity

POLY CHAIN GT CARBON ROLLER CHAIN COVERAGE CHART

POLY CHAIN GT CARBON ROLLER CHAIN COVERAGE CHART CONTINUED

#160 | #120-2 | #100-3 | #180 | #140-2 | #120-3 | #200 | #160-2 | #180-2 | #200-2 | #240-2 | #200-3 | #240-3 | #200-4 | #200-5

54.4 64.5 96.3 112.5 73.2 103.4 141.7 79.2 123.2 139.2 150.9 184.7 222.5 272.5 294.1 363.2

| #35 | #40 | #50 | 2-#40 | #60 | #40-3 | #50-2 | #50-3 | #60-2 | #80 | #60-3 | #100 | Width (mm) 12.7 17.0 21.1 31.5 26.4 45.7 39.4 57.4 49.3 33.5 72.1 40.9

NOTES:

Chart indicates Poly Chain GT Carbon belt widths and roller chain sizes with

19M x 150 mm

8M x 62 mm

Not to be used for drive design purpo







DRIVEN BY POSSIBILITY™

SYSTEM SOLUTIONS:

MACHINEWORKS: CUSTOM METALS



GATES DRIVE EXPERTS GET YOU UP AND RUNNING IN NO TIME. ANY DESIGN, ANY MATERIAL, AND NO MINIMUMS.

ENGINEERING

- Application Engineering
- Field Engineering
- Packaging Design

MANAGEMENT

- Production Sourcing
- Field Sales Support
- Distribution + Transportation

OEM LOGISTICS

- EAU (Estimated Annual Usage)
- Inventory Management
- Just-In-Time Delivery
- Packaging + Container
- Distribution + Transportation



DRIVEN BY POSSIBILITY

PORTFOLIO SUMMARY:

BELT SELECTION MATRIX

	ATTRIBUTE	POLY CHAIN	POWERGRIP GT	TPU
	TORQUE	HIGH TO LOW	MEDIUM TO LOW	LOW (POSITIONING)
~	RIM SPEED WITH STANDARD SPROCKETS*	MAX 6500FPM	MAX 6500FPM	MAX 3000FPM
	NOISE	HIGHER AT HIGH SPEED	MEDIUM AT HIGH SPEED	MEDIUM AT HIGH SPEED
1	LENGTH (ENDLESS)	65.6FT UP TO 65.6FT ENDLESS (PITCH DEPENDENT)	22.5FT UP TO 22.5FT ENDLESS (PITCH DEPENDENT)	77FT UP TO 77FT ENDLESS
	LENGTH (LONG LENGTH)	900FT UP TO 900FT (PITCH AND WIDTH DEPENDENT)	590FT UP TO 590FT (PITCH AND WIDTH DEPENDENT)	984FT UP TO 984FT (PITCH AND WIDTH DEPENDENT)
	CONDUCTIVITY	VOLT ONLY	YES (8 AND 14MM)	STANDARD NO, SPECIAL RESIN AVAILABLE
	TEMPERATURE	+185F -65F TO +185F, -54C TO +85C	+185F -30F TO +185F, -34C TO +85C	+158F +23F TO +158F, -5C TO +70C
	CHEMICAL RESISTANCE	HIGH	MEDIUM	HIGH
/	FOOD APPLICATIONS	YES (NOT FDA)	NO	YES (FDA)
STATE OF THE PARTY.	CUSTOMIZATION	VERY LOW	LOW (SOME BACKINGS)	HIGH (BACKINGS, PROFILES, MODIFICATIONS)
	DUAL SIDED POWER TRANSFER	NO	YES (TWIN POWER GT2)	NO

* Higher spee sds can be reached with custom sprockets

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SATISFIED CUSTOMERS:

CONTINENTAL PAVING

Continental Paving has been in business for 40 years and is always looking for ways to improve what they do.

"Back in the 80's if you put down five to seven hundred tons a day, it would be a great day. Today, our goal is twenty five hundred a day. Then we get on some projects and we put down as much as thirty five hundred to four thousand tons a day" notes Mark Charbonneau, the president of Continental Paving. "Downtime is extremely expensive and one of the biggest problems is that you have 30 trucks with 10-man paving crews. If any one thing goes down, then it shuts the whole operation down. So it is important to have products that are sustainable and give you the most efficiency and long life." Replacing the chain system helped resolve very time consuming and tedious maintenance, which frees up Continental Paving to be more efficient. "The solution was the 19 mm pitch Poly Chain belt. They installed it almost two years ago and it's been working flawlessly. It's exciting to have this kind of technology and this horsepower behind me."



CHANGEOVER PROCESS

Gates field engineers perform an onsite application survey to get measurements and application requirements.

Gates engineers use proprietary software to generate a bill of materials.

Quote and ROI proposal is delivered to the customer.

Customer commits to order, and schedules future install.

Installation is performed by onsite staff or Gates installation partners.

Gates provides tools and support to keep you running long into the future.



REPLACEMENT PART SAVINGS

IMPACT ON EMPLOYEE SAFETY **SATISFIED CUSTOMERS:**

CULP LUMBER TESTIMONIAL

One belt doing what many chains used to do.

Culp Lumber is a fifth-generation family-owned business. We interviewed Charlie Smith, the Maintenance Manager for Culp Lumber, after they switched from chain drives to Poly Chain systems throughout the entire mill. "We were having lots of trouble with our band mills. We were going through two to three sets a year, at two, three, four thousand [dollars] a set." Culp Lumber was using wide, cumbersome chain before Gates replaced it with Poly Chain. "We put a little $2\,\frac{1}{2}$ inch wide belt on there and put 150 horsepower and I really didn't have much confidence in it. Five years later it's still running."

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AT PLAY

POWERING INDOOR AND OUTDOOR PLAY, FROM THE MOST EXTREME TO THE MORE FAMILIAR.

IN MOTION

PROVIDING AN EXTENSIVE RANGE OF HIGH-PERFORMANCE TRANSMISSION SOLUTIONS FOR ORIGINAL EQUIPMENT AND REPLACEMENT APPLICATIONS.

AT HOME

MAKING EVERYDAY HOME LIFE EASIER AND MORE EFFICIENT THROUGH A BROAD RANGE OF PRODUCTS AND SOLUTIONS.

IN THE FACTORY

DELIVERING SPECIALIZED INDUSTRY SOLUTIONS THAT ENABLE SUPERIOR MANUFACTURING AND AUTOMATION WHEN AND WHERE QUALITY MATTERS MOST.

IN THE FIELD

DEVELOPING ADVANCED TECHNOLOGY THAT POWERS EVERYTHING FROM CONSTRUCTION EQUIPMENT TO WINDMILLS.

13,500+ EMPLOYEES

100+ LOCATIONS

128 COUNTRIES SOLD TO

NORTH AMERICA

GLOBAL HEADQUARTERS DENVER, COLORADO

- 15 Manufacturing Facilities
- 12 Sales Offices
- 14 Warehouses
- 2 Major R&D Centers
- 2 Oil & Gas Service Centers

EUROPE, MIDDLE EAST & AFRICA (EMEA)

EMEA HEADQUARTERS BRUSSELS, BELGIUM

- 13 Manufacturing Facilities
- 17 Sales Offices
- 9 Warehouses
- 2 Major R&D Centers
- 8 Oil & Gas Service Centers

GREATER CHINA (GC)

GC HEADQUARTERS SHANGHAI, CHINA

- 6 Manufacturing Facilities
- 5 Sales Offices
- 7 Warehouses
- 1 Major R&D Center
- 1 Oil & Gas Service Center

SOUTH AMERICA

- 2 Manufacturing Facilities
- 2 Sales Offices
- 2 Warehouses

EAST ASIA & INDIA (EA&I)

EA&I HEADQUARTERS SINGAPORE

- 7 Manufacturing Facilities
- 17 Sales Offices
- 3 Warehouses
- 2 Major R&D Centers
- 2 Oil & Gas Service Centers

