



UPDATE ON LATEST BELT TECHNOLOGY





CUSTOMERS SHARED THEIR CHALLENGES AND NEEDS.

WE DEVELOPED A BELT TO ADDRESS EFFICIENCY, NOISE, DURABILITY AND EASE OF INSTALLATION.



AN ETHYLENE ELASTOMER HIGH-TORQUE SYNCHRONOUS BELT



INTRODUCTION



POWERGRIP™ GT4™ : THE LATEST IN SYNCHRONOUS BELT TECHNOLOGY



NEW TECHNOLOGY PLATFORM





KEY ADVANTAGES

- Higher-power capability
- Wider temperature range
- Service-free
- Other benefits



OPPORTUNITIES

- Applications
- Industries



PRODUCT SPECIFICATIONS

- Construction
- GT range evolution
- Benchmark
- Other product specifications
- Order codes



LET'S START

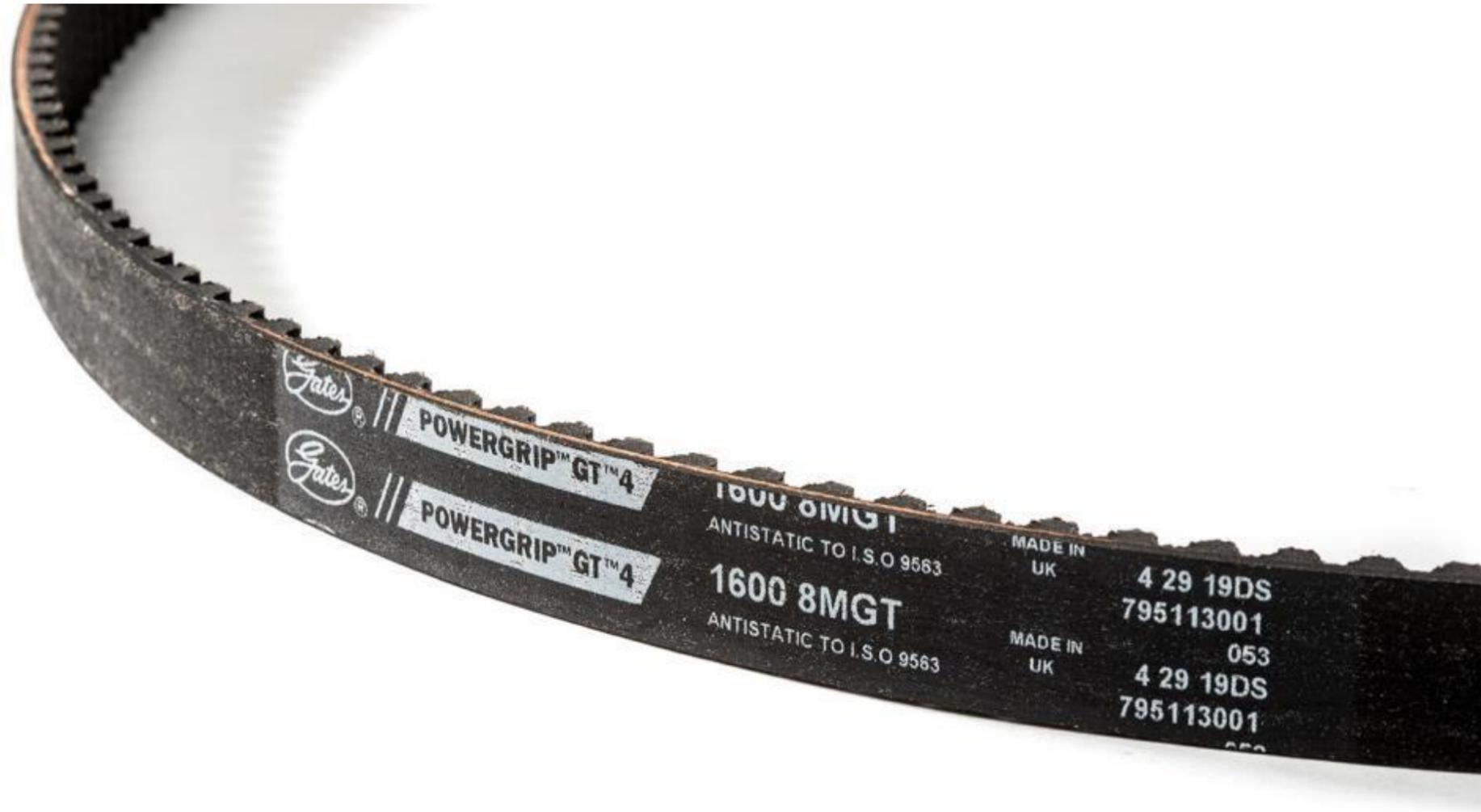


POWERGRIP™ GT4™
KEY ADVANTAGES & BENEFITS





KEY ADVANTAGES



- 1. HIGHER POWER-CARRYING CAPACITY**

- 2. WIDER TEMPERATURE RANGE CAPABILITY**

- 3. SERVICE FREE**



A NARROWER BELT OPENS UP A BROADER RANGE OF USES

- You can apply a narrower belt which opens up a broader range of uses.
- Machine builders can fit a belt drive into smaller spaces or design machines that use more torque.
- Factory managers can save money as a result of a lower total cost of ownership by reducing downtime and repair costs.



POSSIBILITY TO USE A NARROWER BELT



ADVANTAGE OF MATERIALS SCIENCE

- Moving from chloroprene to the EE formulation allows the new belt to carry required power across a greater temperature range.
- This larger range capability enables application of belts in high and low temperature environments.
- Fully operational in temperatures of **-40°C to +120°C**.

Can be used to +140°C intermittently.

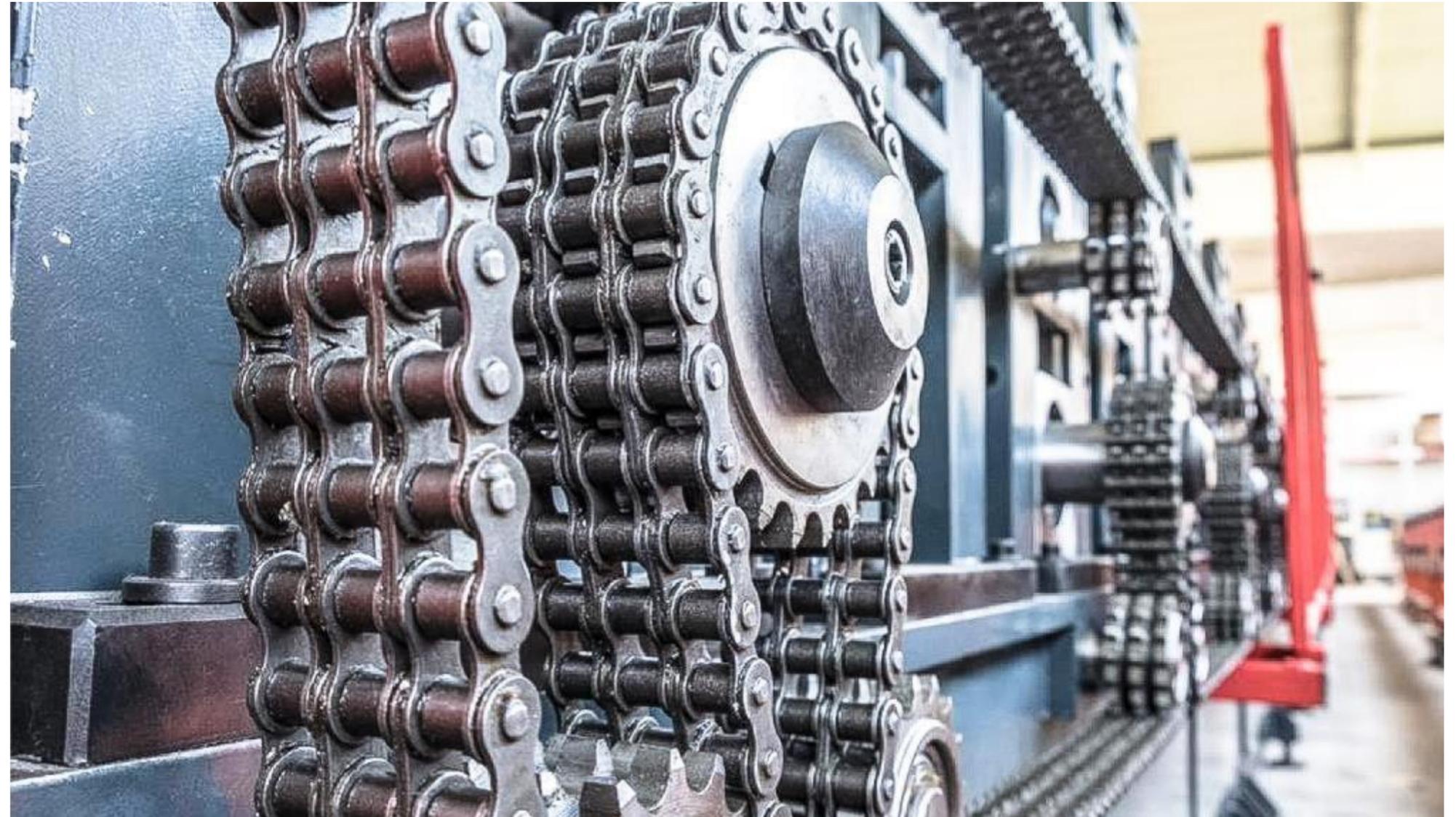


FULLY OPERATIONAL IN ENVIRONMENTS FROM -40°C UP TO +120°C



POWERGRIP™ GT4™ ZERO MAINTENANCE

- No lubrication and less re-tensioning eliminates maintenance costs throughout the life of the belt
- Running smoothly and quietly, reducing contamination risks.
- This makes it ideal to replace traditional chain drives.



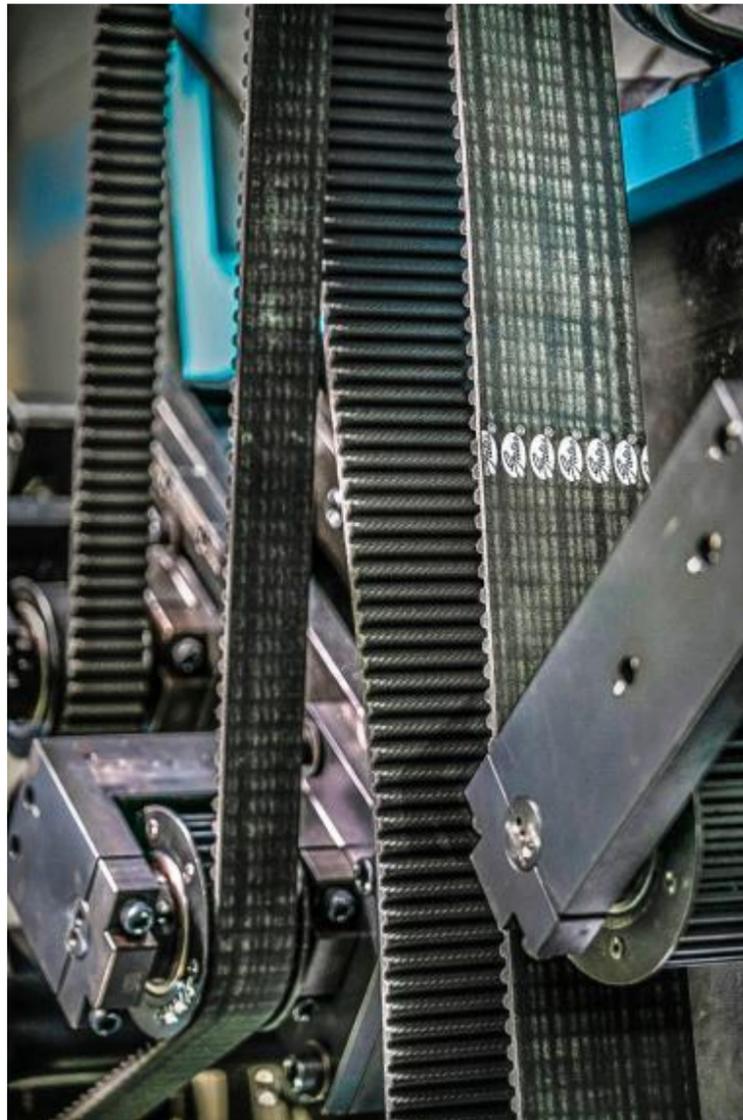
NO STRETCH - NO RE-TENSIONING - NO LUBRICATION



- High efficiency – up to 98% over belt life
- Improves Ergonomics – Less weight reduces fatigue and strain during installation resulting in more productivity and fewer lost time incidents
- Enables safer employee working conditions – with zero oil and less weight there's less risk of slipping and falling
- Rust free and safe for use in food handling spaces
- Less maintenance – reduces grime build-up
- Reduced environmental risk
- Increased uptime
- Improved chemical resistance against alkalis, acids, UV and ozone
- Maintains performance in all but fully submerged grease and oil environments (Intermittent contact with grease and/or oil will not adversely affect performance)

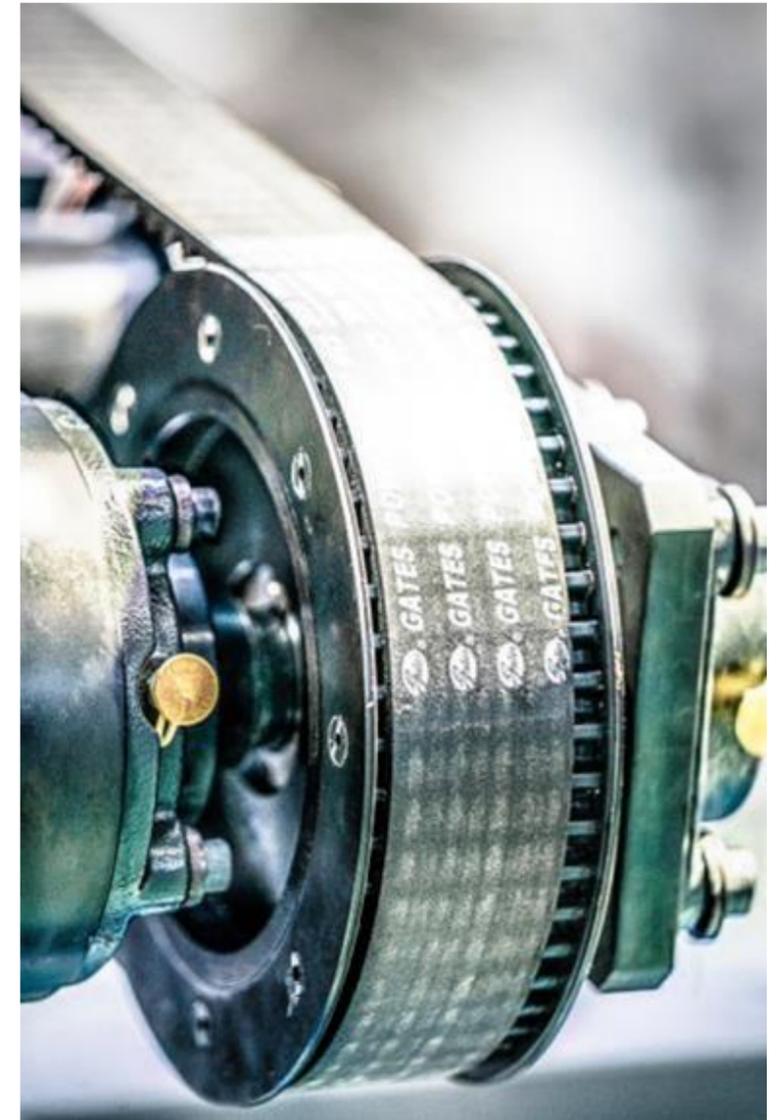


COMPLEMENTING THE EXISTING GATES PORTFOLIO



BENEFITS OF WORKING WITH GATES

- Backed by 100 Years of Innovation
- Engineered to outperform the competition
- Industry-leading product coverage
- Comprehensive training programs
- Dedicated Sales Force

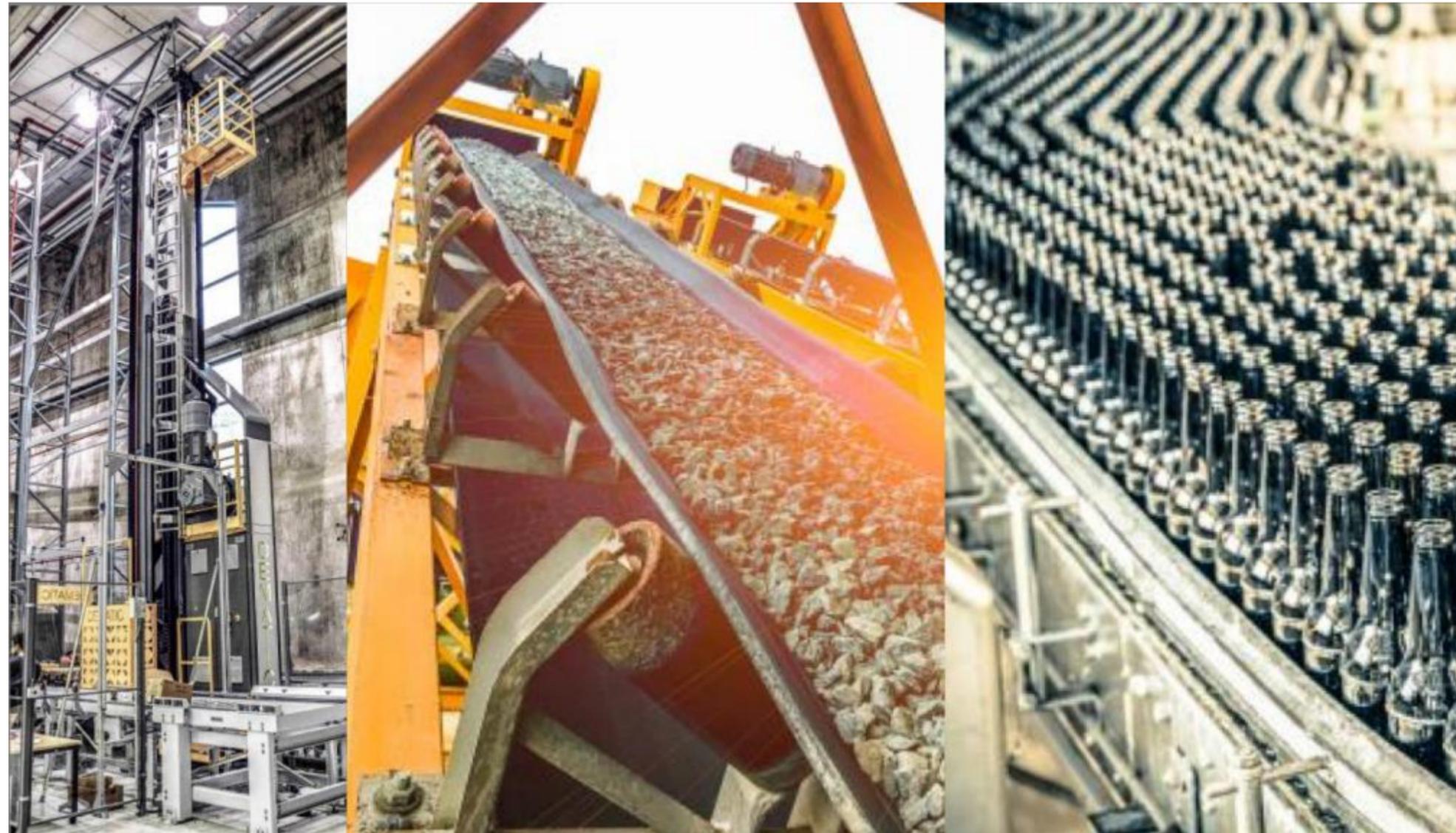


THE GATES VALUE PROPOSITION



WE CAN HELP YOU ACHIEVE...

- Global Product Availability
- Elimination of Metal-on-Metal Chain Clatter
- Corrosion Resistance
- Reduced Maintenance
- Increased Durability
- Improved Efficiency
- Weight Reduction
- Higher Speeds
- Greater Power and Load
- Cleaner Drives
- Environmentally-Friendly



... IN THESE INDUSTRIES

- Construction & mining
- Forestry & agriculture
- Textile & laundry
- Stationary machinery & tools
- Pulp & paper
- Food processing
- Packaging
- Automation
- Automotive assembly
- Robotics
-



POWERGRIP™ GT4™ PRODUCT SPECIFICATIONS



FIBERGLASS TENSILE CORDS

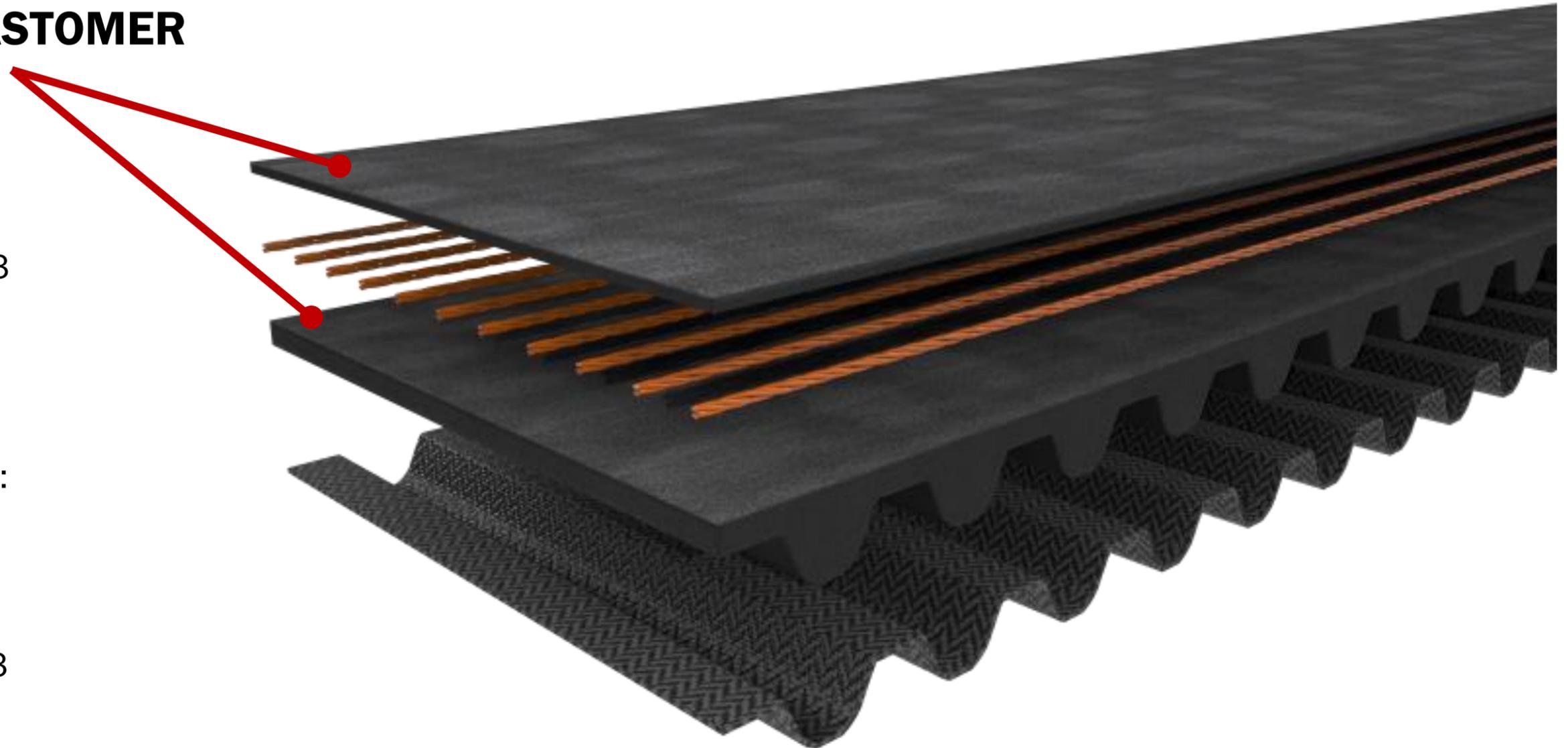
- No re-tensioning required
- Improved flex fatigue
- High length stability
- Enhanced durability



NEW DESIGNED CORD TECHNOLOGY

NEW GENERATION ELASTOMER

- Class leading power capacity
- 25% rating increase over GT3
- Compact belt drive design
- Wider range of temperatures:
-40 °C to +120 °C
- ATEX compliant
Static conductive – ISO 9563
- Halogen free



NEW ENGINEERED EPDM COMPOUND

NYLON TOOTH FABRIC

- High efficiency up to 98%
- Improved tooth wear resistance
- Reduces friction
- Longer durability
- ATEX compliant
Static conductive – ISO 9563

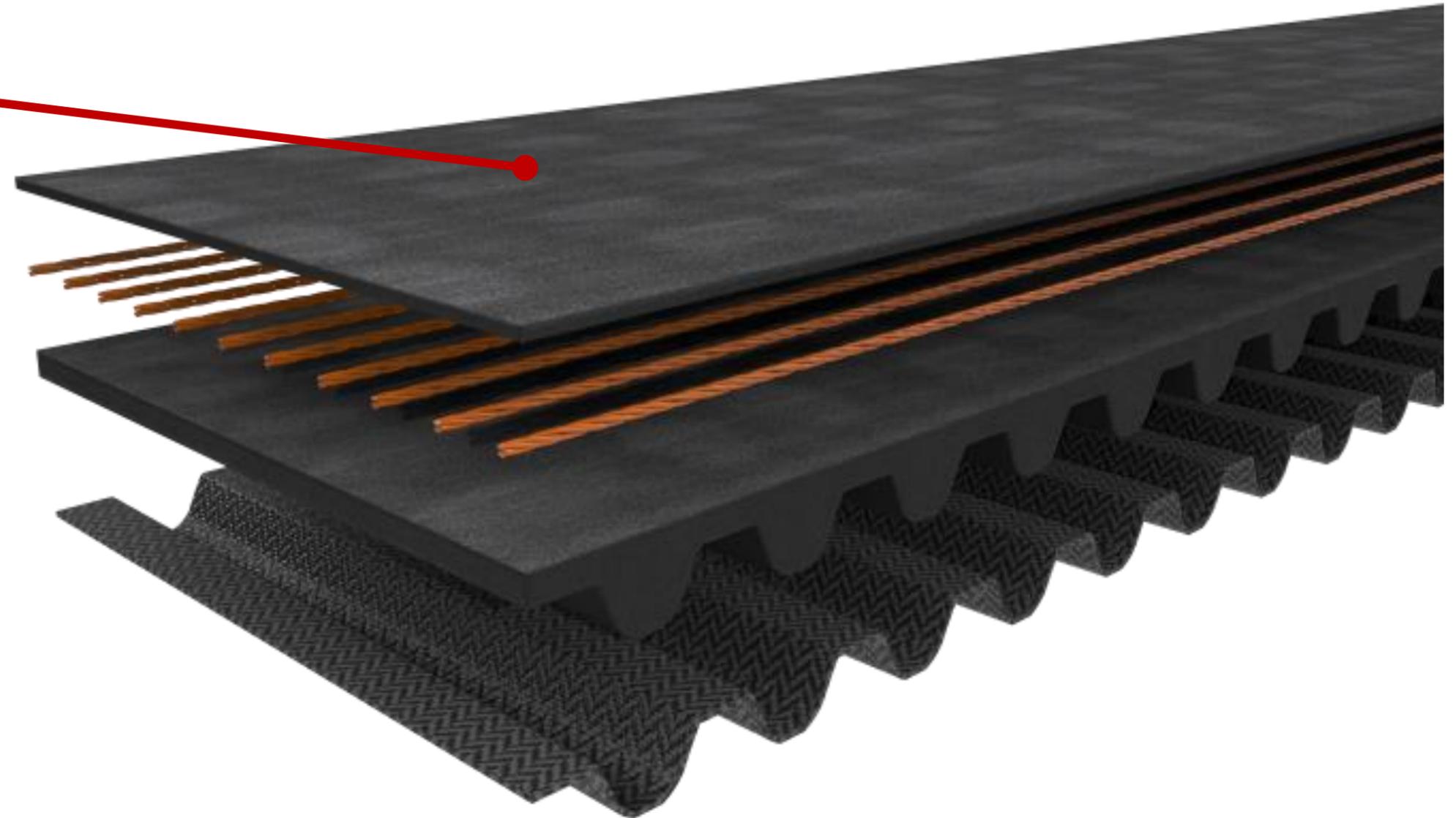


ENHANCED FABRIC MATERIAL



BACK FINISH

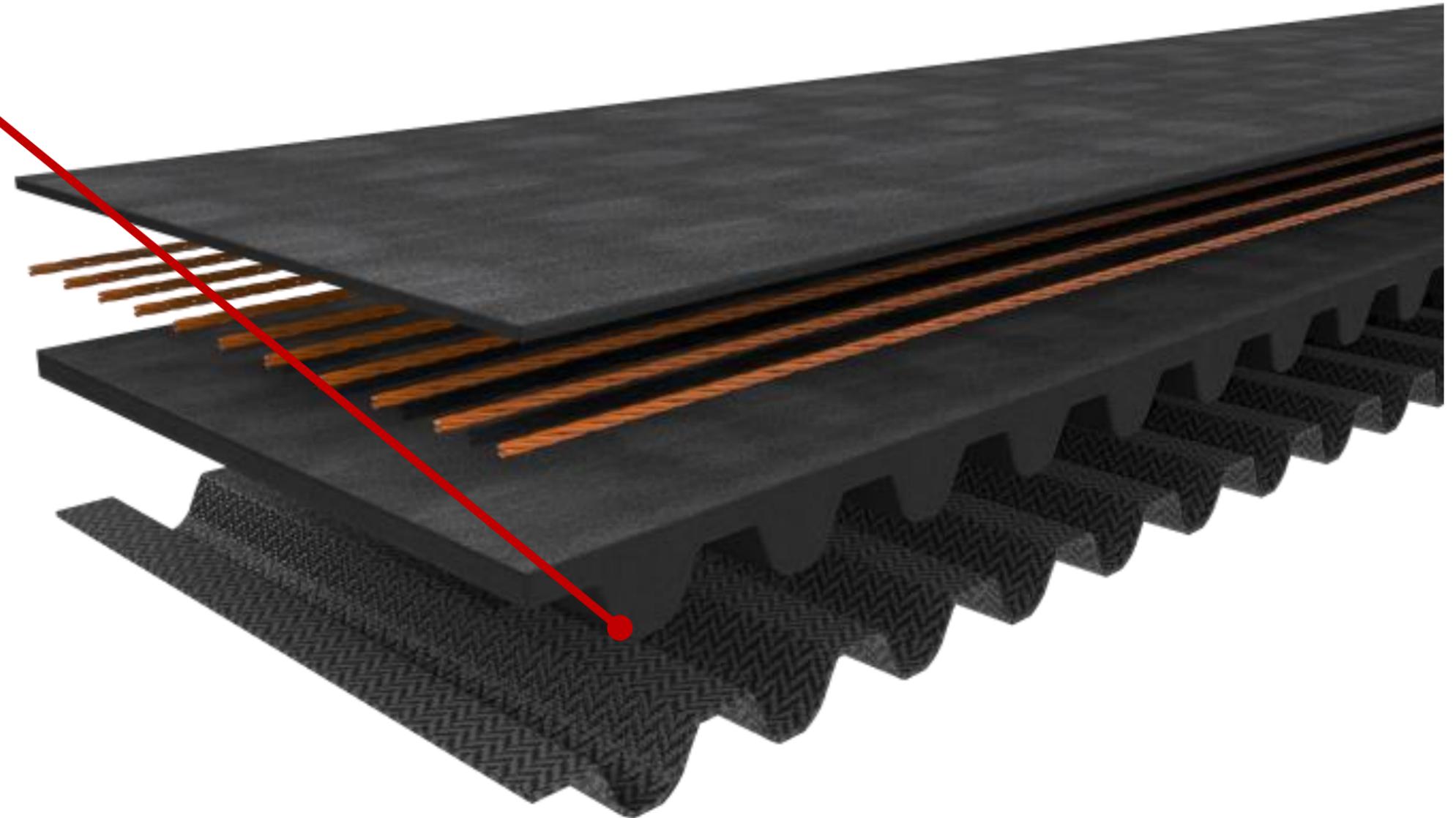
- Smooth back idler running
- Vibration elimination



IMPROVED GRINDING

PATENTED GT TOOTH PROFILE

- Perfect fit on HTD™ pulley groove
- Reduced running noise
- Improved tooth jump resistance



OPTIMISED CURVILINEAR DESIGN



AVAILABLE PITCH SECTIONS & DIMENSIONS

SECTION	PITCH (MM)	TOOTH HEIGHT (MM)	BELT HEIGHT (MM)	LENGTH RANGE (MM)
8MGT	8.0	3.4	5.6	384 - 4400
14MGT	14.0	6.0	10.0	966 - 6860

NEW LENGTHS - 8MGT

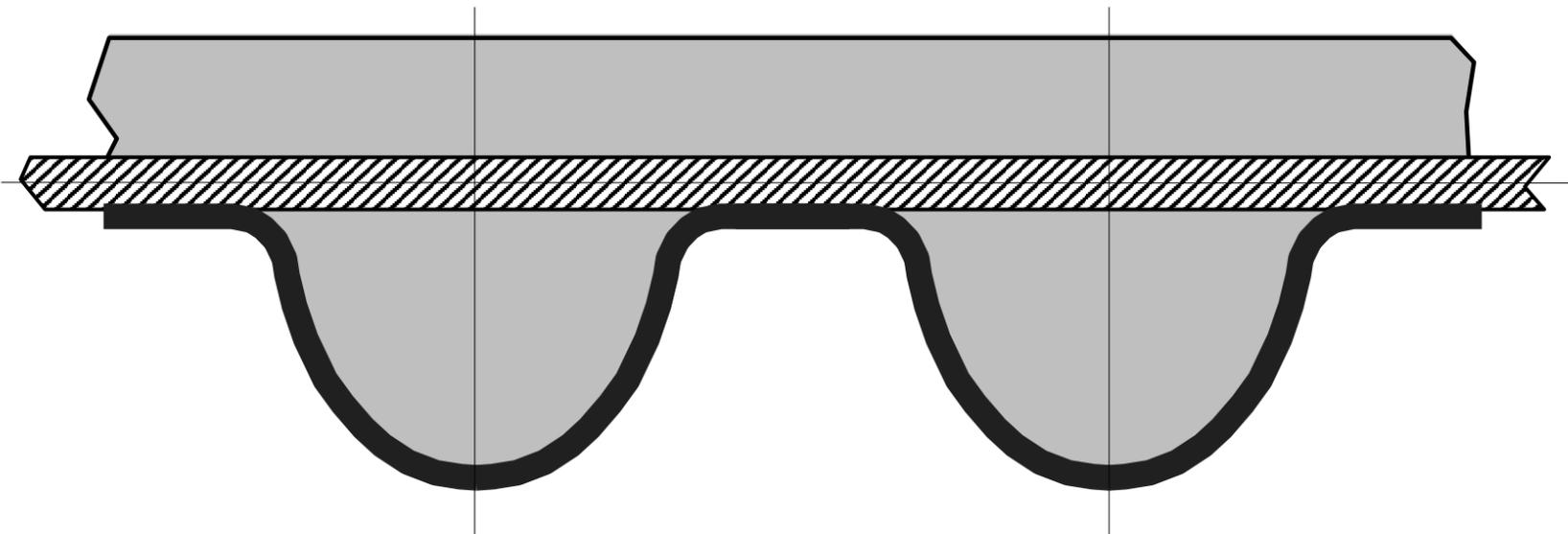
- 424 mm / 53T
- 472 mm / 59T
- 656 mm / 82T
- 760 mm / 95T
- 976 mm / 122T
- 1000 mm / 125T
- 1080 mm / 135T
- 1264 mm / 158T
- 1360 mm / 170T
- 1552 mm / 194T
- 1696 mm / 212T
- 1880 mm / 235T
- 1896 mm / 237T
- 2080 mm / 260T

NEW LENGTHS - 8MGT

- 4004 mm / 286T

STANDARD WIDTHS

- 8MGT : 20 - 30 - 50 - 85 mm
- 14MGT : 40 - 55 - 85 - 115 - 170 mm

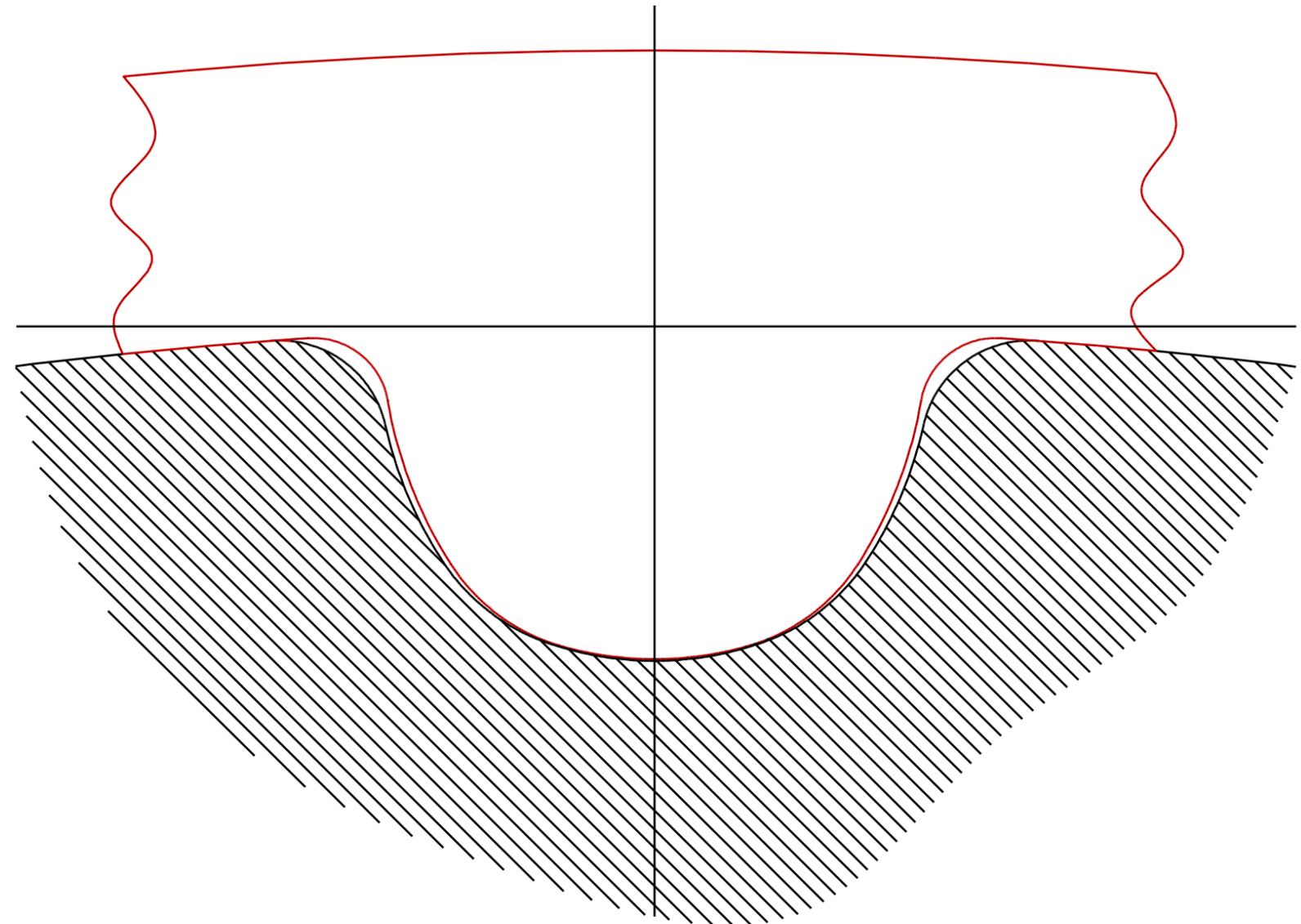


MADE TO STOCK PRODUCT LINE



HTD™ SPROCKET GROOVE COMPATIBILITY

- Easy drive upgrade in existing HTD™ sprocket groove
- Reduced backlash
- Reduced running noise due to damping effect



FIT TO MARKET PROFILE STANDARD



PITCH 8MGT

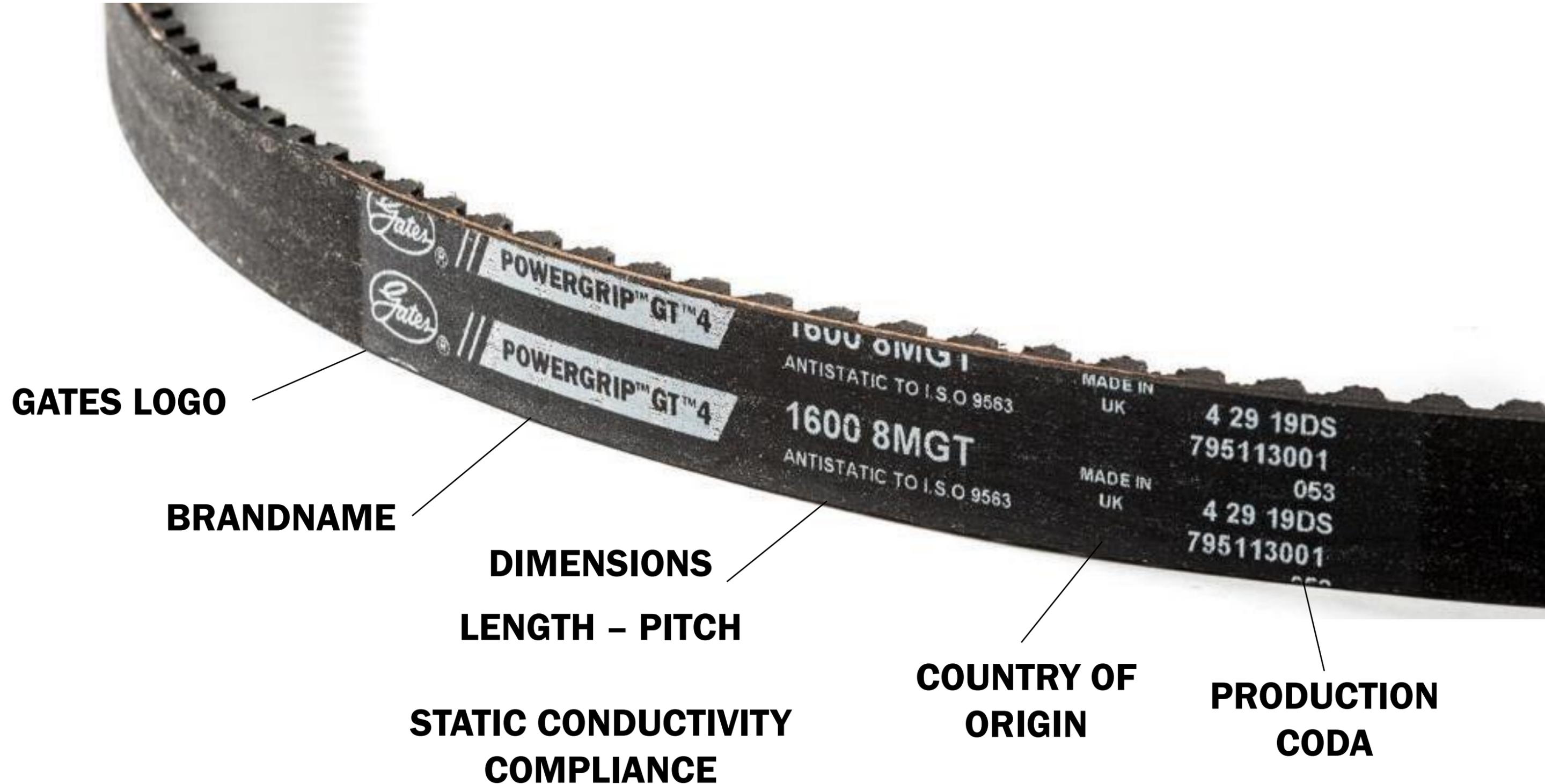
GT4 840 8MGT 20

PITCH 14MGT

GT4 4326 14MGT 55



THE LATEST IN SYNCHRONOUS BELT TECHNOLOGY



POWERPAINT™

- PowerGrip GT4 can be supplied on demand suited for usage on Paint and Varnish applications.
- Maintaining its high performance rating and product characteristics, the PowerPaint™ version guarantees a smooth and evenly painting surface.
- Available on demand

ORDERING CODE

PPT GT4 length pitch width



POWERGRIP™ HTD4™

- Using PowerGrip GT4 advanced materials and available HTD™ production tooling, we offer the ability to have GT4™ performance in HTD™ 8M length sizes.
- Available on demand

ORDERING CODE

HTD4 length 8M width

ON DEMAND AVAILABILITY



PITCH 8MGT

- 22 = Min. recommended pulley size (number of grooves)
- 85 = Min. back idler diameter (mm)

PITCH 14MGT

- 28 = Min. recommended pulley size (number of grooves)
- 190 = Min. back idler diameter (mm)





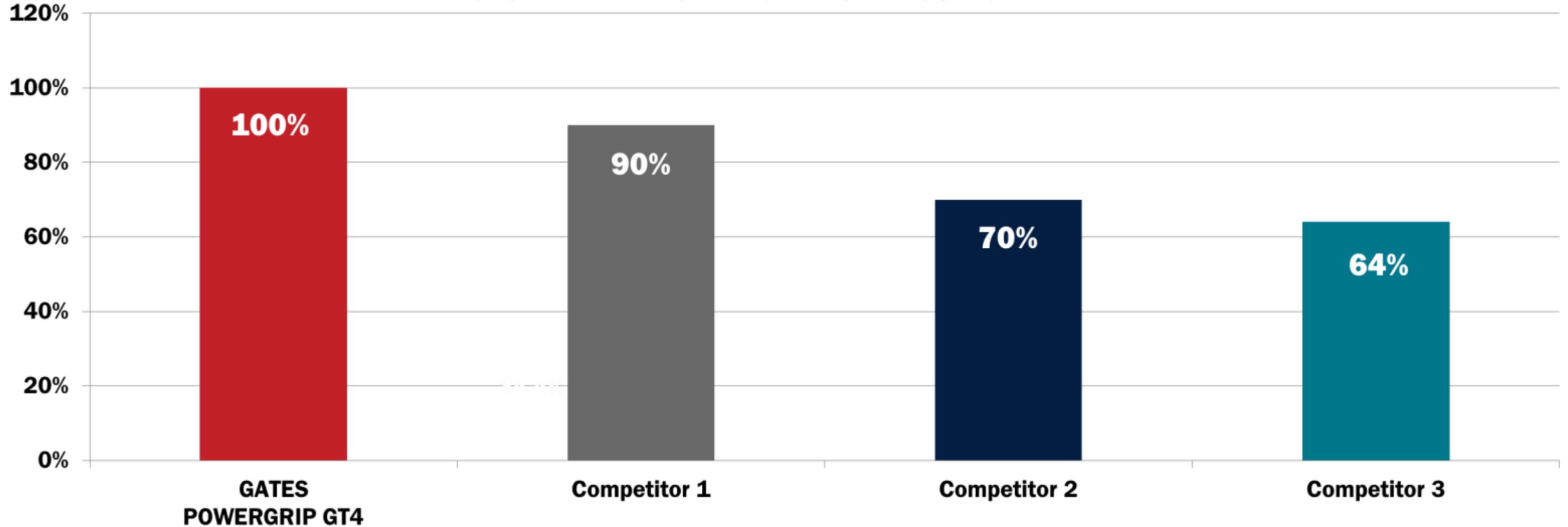
PRODUCT SPECIFICATIONS - GATES GT4 RANGE EVOLUTION

	1990	2000	2004	2020
14	GT	GT2 +30%	GT3 +10%	GT4 14MGT
8	GT	GT2 +30%	GT3 +22%	GT4 8MGT
5	GT			GT3 5MGT
3	GT			GT3 3MGT
2	GT			GT3 2MGT

CONTINUOUS PERFORMANCE IMPROVEMENT



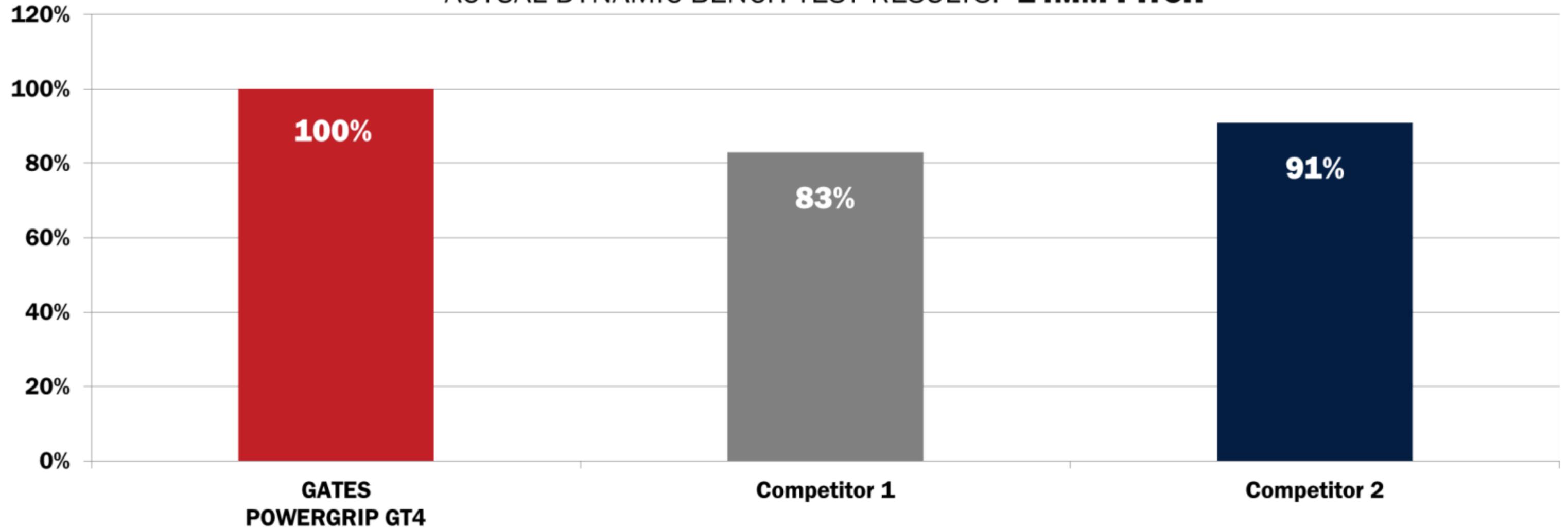
ACTUAL DYNAMIC BENCH TEST RESULTS: 8MM PITCH



CLASS LEADING PERFORMANCE



ACTUAL DYNAMIC BENCH TEST RESULTS: **14MM PITCH**



CLASS LEADING PERFORMANCE



THE NEXT GENERATION EPDM COMPOUND

- This new engineered halogen free EPDM compound shows the results of our materials science.
- The key advantage of this next generation compound is the wider temperature range capability,
- which in turn benefits a wider range of industries.



LET US ADDRESS EFFICIENCY, NOISE, DURABILITY AND EASE OF INSTALLATION



PRODUCT MARKETING SUPPORT





PRODUCT MARKETING - POWERGRIP™ GT4™ TOOLKIT



SELL SHEET



PRODUCT POSTER



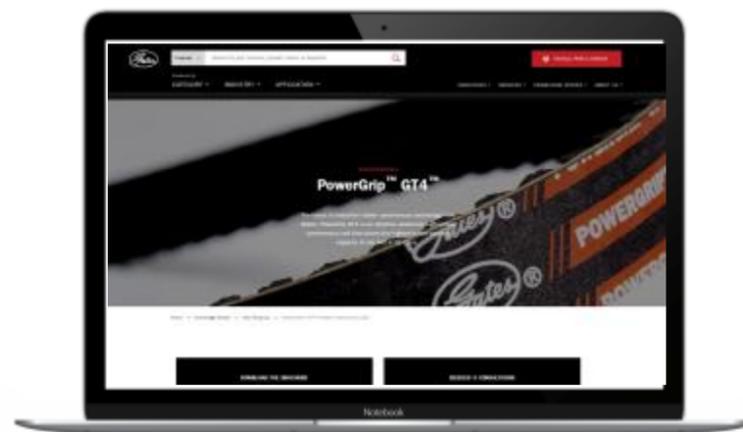
WHITE PAPER



PRESS RELEASE



EMAIL SIGNATURE BANNER



LANDING PAGE



PRODUCT VIDEO



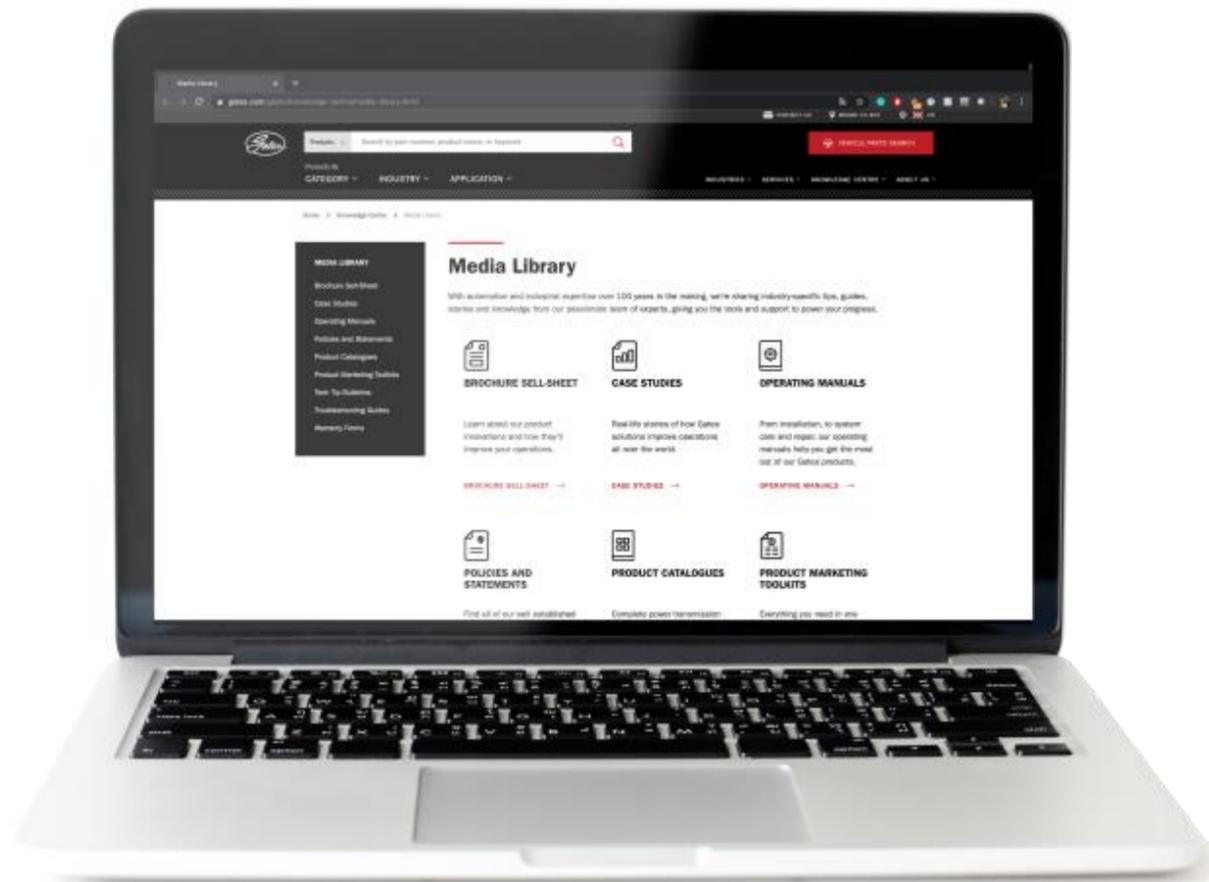
UPDATED INDUSTRIAL POWER TRANSMISSION CATALOGUE

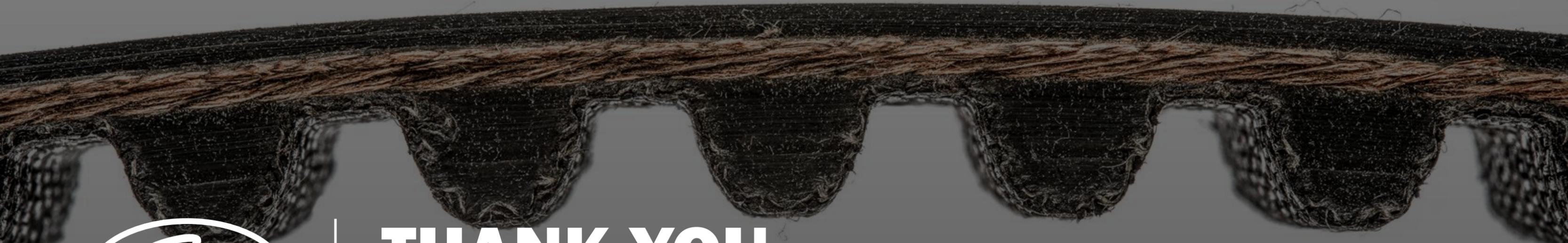


EMEA GATES.COM KNOWLEDGE CENTRE

YOUR **PRODUCT MARKETING TOOLKIT** CONTAINING ALL POWERGRIP™ GT4™ MARCOM COLLATERAL IN ONE ZIP-FOLDER!

- Contact your sales representative for more info
- Or download from the Gates Knowledge Centre:
- **GATES.COM**
 - ↓ Knowledge Centre (upper right corner)
 - ↓ Media Library
 - ↓ Product Marketing Toolkits





**THANK YOU
FOR YOUR ATTENTION**

