



**ADVANCING HOW THE WORLD MOVES**

**FITNESS DRIVE SOLUTIONS**





# PERSONAL FITNESS DRIVE SOLUTIONS

## MATERIALS SCIENCE TECHNOLOGIES

- CONSTRUCTION
- DURABILITY
- PERFORMANCE





## TECHNICAL EXPERTISE

- SYSTEM DESIGN
- SPECIFICATIONS
- GLOBAL SUPPORT

## BROAD PROVEN PORTFOLIO

- BELTS
- SPROCKETS
- IDLERS AND TENSIONERS
- DRIVE COMPONENTS







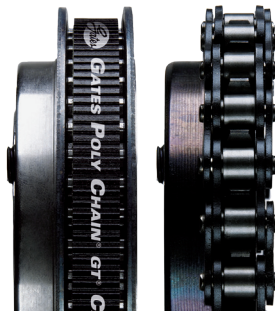
**ADVANCING HOW THE WORLD MOVES**



**1911**  
FOUNDED  
DENVER, CO



**1942**  
CO-DEVELOPED  
SYNTHETIC RUBBER  
MASS PRODUCTION



**1986**  
INTRODUCED  
REVOLUTIONARY  
POLY CHAIN  
SYNCHRONOUS BELT



**2010**  
GATES LAUNCHES  
CARBON DRIVE  
CENTERTRACK™

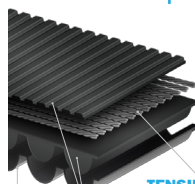
**1917**

INVENTED  
V-BELTS



**1980**

ENGINEERED AND  
DEVELOPED BELTS TO  
REPLACE CHAINS ON  
MOTORCYCLES



**TENSILE MEMBER**  
CARBON  
**COMPOUND**  
POLYURETHANE AND  
RIBBED BELT BACK  
**WEAR LAYER**  
WEAR-RESISTANT  
NYLON FABRIC

**2006**

POLY CHAIN  
GT CARBON

**2007**

GATES CARBON DRIVE  
LAUNCHES  
FIRST BICYCLE  
BELT DRIVE  
SYSTEM



In 2012 Frank Schneider  
conquers Alpe D'huez  
Megavalanche Cup



# GATES CORPORATION IS A LEADING MANUFACTURER OF APPLICATION-SPECIFIC FLUID POWER AND POWER TRANSMISSION SOLUTIONS.

At Gates, we are driven to push the boundaries of materials science to engineer products that continually exceed expectations, driving a revolution in personal and micromobility that is transforming how the world gets from A to B.

Our highly trained application engineers work with you from inception to completion, optimizing your design, selecting the ideal drivetrain products, and delivering a power transmission solution that exceeds performance goals for efficiency, durability, and customer satisfaction.

In the field of fitness equipment, Gates products are also widely praised, providing more powerful technical solutions for your equipment, using world-leading production technology, adapting to a variety of applications, such as rowing machines, spin bikes and treadmills.



**2012**  
GATES LAUNCHES  
CARBON DRIVE  
CRANKSETS



**2020**  
GATES LAUNCHES SIDETRACK



.EST 2007

**2022**  
GATES CARBON DRIVE  
15TH ANNIVERSARY

**2019**  
GATES GLOBAL MOBILITY



**2021**  
GATES MOTO X9 INTRODUCED

**MOTO X9**



**2022**  
GATES LAUNCHES CDC  
CENTERTRACK BELT





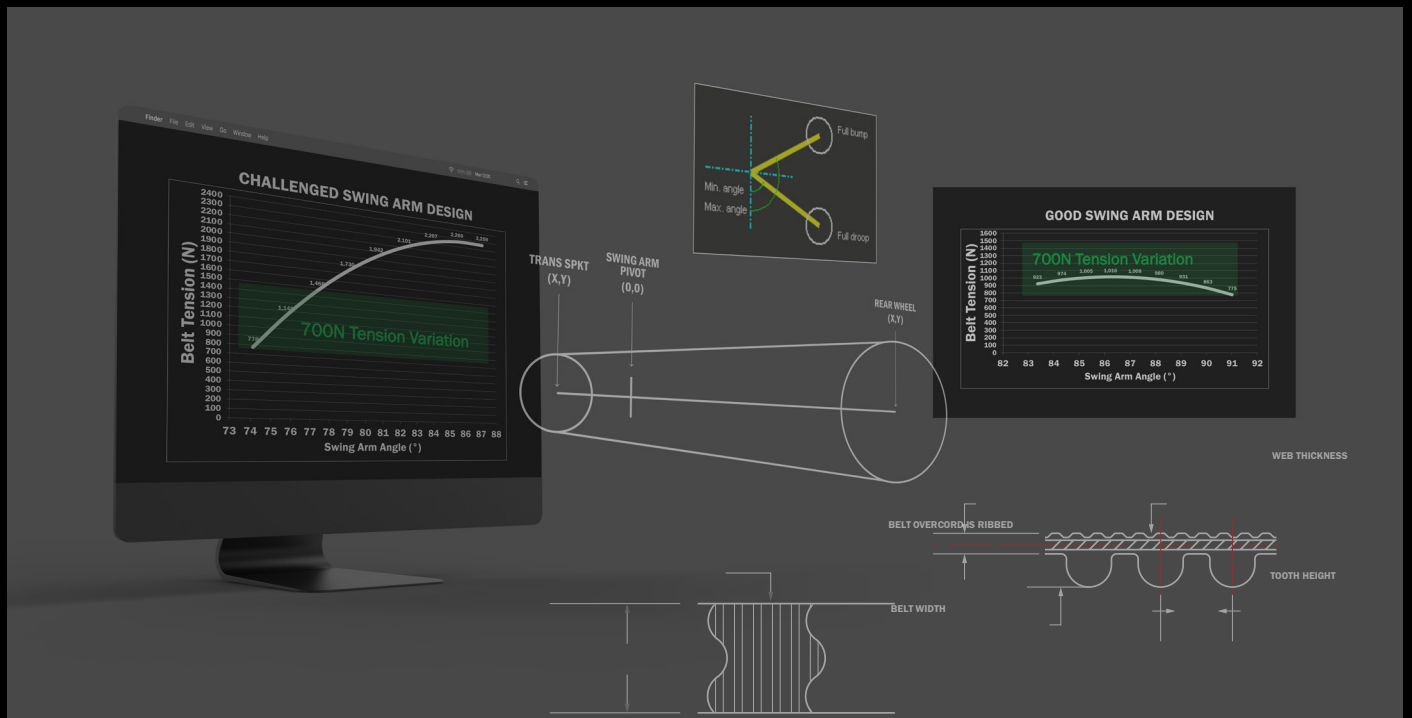
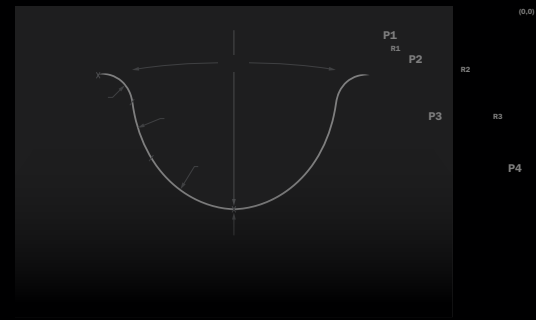
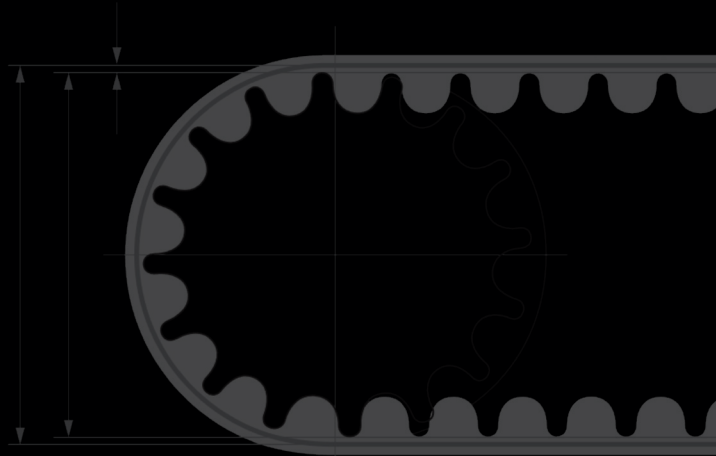
# MEETING YOUR DESIGN NEEDS AT EVERY TURN



Partner with Gates early in your design to extend your engineering team and expand your power transmission experience to achieve the right balance between performance and cost effectiveness. We start by understanding:

- How does your design move, operate, and function?
- What temperatures, environments, loads, or power demands will your system require?
- What type of service, maintenance, and support is required to meet your market demand?

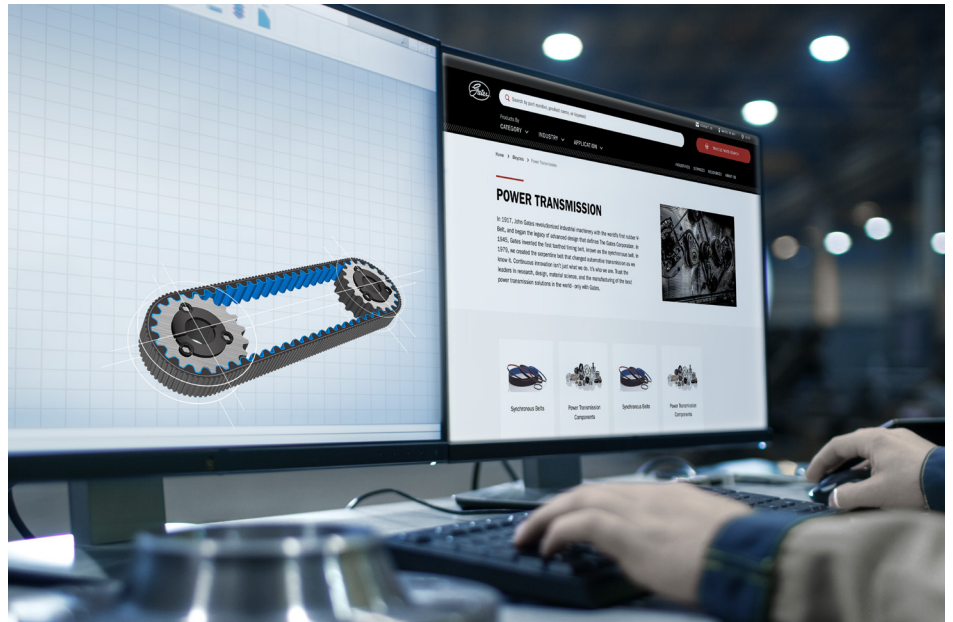
From there, we apply our proprietary software tools to optimize your drivetrain design.





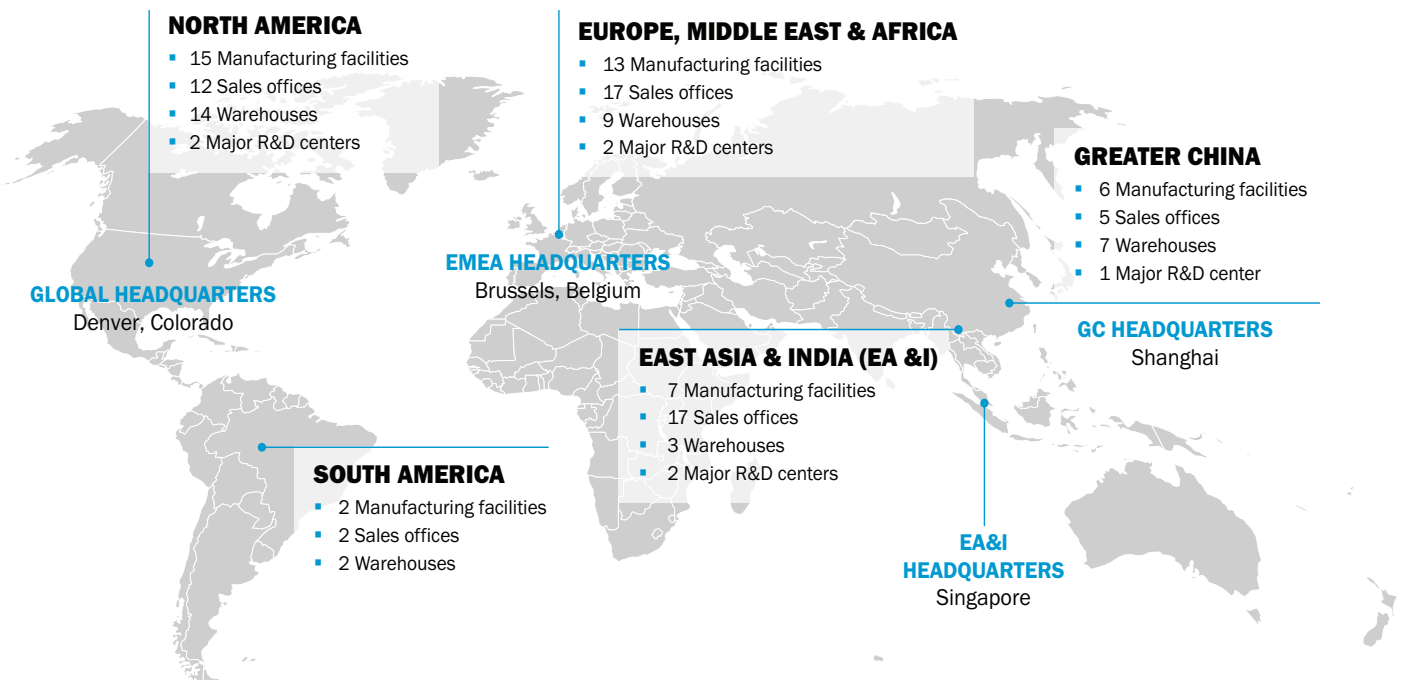
## GLOBAL ENGINEERING DESIGN & SUPPORT

- **Drive System Design**
  - Advanced Systems Engineering
  - Component Modeling and Design
- **Drive System Validation**
  - Clarify System Targets
  - Product Testing Assistance
  - Drive Improvement Analysis
- **VA/VE Analysis**
  - Evaluate Opportunities to Improve Drive System
  - Supply Chain Simplification
- **Global Project Coordination**
  - Seamless Global Collaboration to Completion
  - Global Sourcing Capabilities



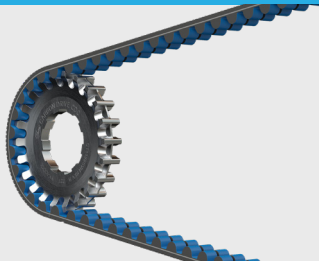
## GATES GLOBAL FOOTPRINT DELIVERS PRODUCT SUPPORT THROUGHOUT YOUR PRODUCTS LIFE-CYCLE: DESIGN, MANUFACTURING, AND AFTER-SALES

- In-Region / For-Region Manufacturing Strategy **13,500+** EMPLOYEES
- Local Commercial Teams Establish Close, Long-Term Customer Relationship **100+** LOCATIONS
- Global Market Coverage Within Established Channel Presence **128** COUNTRIES SOLD TO



**GATES TECHNICAL ENGINEERING CENTERS AND TECHNICAL SALES OFFICES** are located around the world to support your design, manufacturing, and after-sales efforts – get moving with Gates.

## SYNCHRONOUS POSITIVE ENGAGEMENT DRIVES



Teeth of belt and sprocket mesh together creating 1 to 1 movement

- High efficiency
- Precise (ideal for timing applications)
- No slipping if exposed to moisture

### 8MGT POLY CHAIN BELT

- High performance, lowest maintenance and longest life belt available in fitness market
- High tensile strength results in significantly higher power density than steel, glass, and aramid fibers
- High modulus construction yields minimal elongation, allows for more direct transmission of power with better feel
- Excellent environmental resistance with no degradation from sweat, moisture, oil, or common contaminants
- Positive engagement drive produces most efficient and realistic ride feel



### CARBON DRIVE CDX BELT

- Same excellent properties as 8MGT Poly Chain
- 11mm pitch HTD tooth profile delivers optimal skip resistance for high torque, low RPM applications
- Patented CenterTrack™ feature eliminates derailments



### CARBON DRIVE CDN BELT

- High tensile strength results in significantly higher power density than steel, glass, and aramid fibers
- High modulus construction yields minimal elongation, allows for more direct transmission of power with better feel
- Positive engagement drive produces most efficient and realistic ride feel
- Lower cost construction than polyurethane



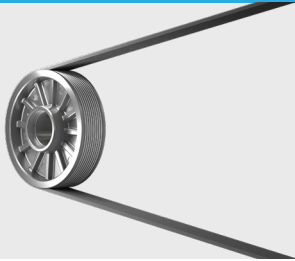
### 5MGT POWERGRIP

- Positive engagement allows for high efficiency
- Smaller pitch allows for reduced sprocket diameter
- High power density





# MICRO V-BELT FRICTION DRIVES AND FLAT BELTS



Works on a wedging principal - the belt is pinched between the sides of the sheave as the load is applied.

- Economical
- Compact (Micro-V belts can use very small pulleys)
- Quiet
- Smooth

## PJ MICRO-V

- Smooth, quiet, low maintenance operation
- Accommodates smaller pulley diameters and drives
- Molded or ground construction
- Truncated ribs for improved wedging force
- Stretch fit options available



## PK MICRO-V

- Smooth, quiet, low maintenance operation
- Higher power capacity compared to J Section
- Molded or ground construction
- Truncated ribs for improved wedging force



## MXB FLAT LIFT BELT

- Smooth feel and exceptional durability
- Aramid tensile cord
- Molded construction
- Minimum pulley diameter from 2.5"



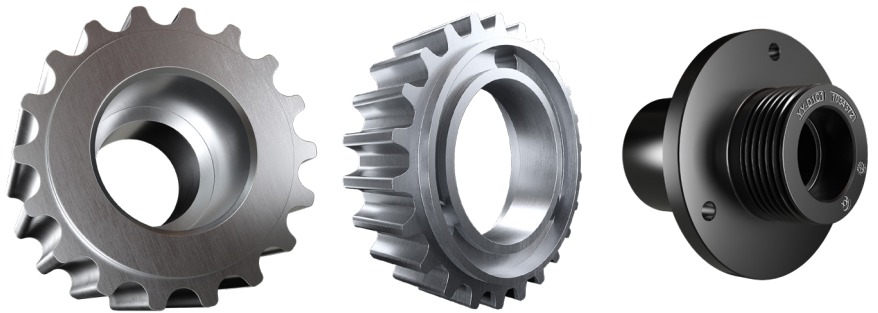
	SYNCRHONOUS DRIVE	MICRO-V DRIVE	MICRO-V STRETCH FIT DRIVE
<b>COST</b>	\$\$\$	\$\$	\$ (no tensioner needed)
<b>MAINTENANCE</b>	++ Virtually maintenance free	+ Low maintenance (rare tension adjustment)	++ Virtually maintenance free
<b>DRIVE FEEL</b>	++ Tooth engagement mimics road bike feel	+ Smooth and quiet drive	+/- Smooth drive with high friction in drive compared to Micro-V
<b>NOISE</b>	++ Low noise	++ Silent	++ Silent
<b>EFFICIENCY</b>	++ Zero slip	+ Low slip	+ Low slip

# PORTFOLIO



## SPROCKETS AND PULLEYS

- Wear and Corrosion Resistance Coatings
- Paint and Finish Options
- Global Manufacturing and Assembly Capabilities





# PORTFOLIO



## IDLERS & POWER TRANSMISSION COMPONENTS

- Idlers and Tensioners
- Crank-arm sets
- Drive shafts
- Other drive components



## TOOLS

### DriveAlign Laser Tool

Gates DriveAlign Laser Tool is designed to detect and measure misalignment in Micro-V® drive systems. Made for fast, easy operation, this tool helps identify misaligned pulleys and drive components.



### Tension Measurement Tools

Gates offers two tools that measure belt tension by analyzing the harmonic characteristics of a vibrating belt. Simply pluck the belt like a guitar string and the meter will take a reading and provide an accurate tension measurement.

- Sonic Tension Meter - perfect for factory installation



- Gates Carbon Drive Mobile App (for iPhone and Android)



## GET MOVING WITH GATES

Gates has technical engineering centers and technical sales offices around the world to support your design, manufacturing, and after-sales efforts. Contact us at [Gates.com/Mobility](https://www.gates.com/Mobility)



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

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