DRIVEN BY POSSIBILITY™

BANDLESS V-BELTS

MORE EFFICIENCY, MORE POWER. GO BANDLESS.

Choosing the right V-belt is an important decision, and it's about more than just upfront cost. Sizes, materials, and specific attributes like flexibility and static-conductivity are critical components to consider. From general purpose belts to bandless solutions made for extreme temperatures, Gates has been at the forefront of V-belt design and innovation for over 100 years. Our full lineup of Bandless V-belts ensures you have the right solution, every time.

COMMON MARKETS

- AGRICULTURE
- CONSTRUCTION
- FOOD AND BEVERAGE
- FORESTRY
- HVAC
- MATERIAL HANDLING
- PULP AND PAPER
- WATER TREATMENT

WHICH IS THE RIGHT BANDLESS V-BELT FOR ME?

QUAD-POWER™ 4

Your team works tirelessly to ensure that every piece of machinery operates at peak efficiency, but interruptions due to retensioning result in costly downtime.

With Gates first maintenance-free premium V-belt, you're investing in a long-lasting solution that eliminates re-tensioning downtime and reduces replacement cycles, allowing your team to focus on the job without interruptions.

QUAD-POWER 4				
CROSS-SECTIONS*	**CORD TYPE**	**COMMON APPLICATIONS**	**POWER DENSITY**	**APPLICATION NOTES**
AX, BX*, 3VX/XPZ, XPA, 5VX/XPB, XPC	Polyester	Extreme temperature environments, HVAC, compressors, construction, etc.	●●●●●	Maximum life in existing drives. Reduce strand count for new drives. Up to 30% more power versus Super HC MN and Tri-Power.

SUPER HC™ MN

Finding a belt that fits into your compact machinery without sacrificing power or efficiency used to be a challenge. When every increment of space is precious and traditional V-belts just don't cut it, the Super HC Molded Notch (MN) V-belt is your solution.

This bandless, high performance belt, crafted from Ethylene Elastomer (EE) with precision-molded notches, provides superior cord support and flexibility to improve load distribution and reduce maintenance needs. Gates Super HC MN V-belts deliver the durability and performance to keep your industrial processes running smoothly.

SUPER HC MN				
CROSS-SECTIONS*	**CORD TYPE**	**COMMON APPLICATIONS**	**POWER DENSITY**	**APPLICATION NOTES**
Narrow: XPZ/3VX, XPA, XPB/5VX	Polyester	General industrial applications	●●●◐○	Maximum power transfer for the price. Longer life in small pulley diameters versus Super HC.

TRI-POWER™

With the combination of superior flexibility, notched construction, and an average of 15% increased capacity (compared to banded belts), the Tri-Power bandless V-belt is specifically designed to tackle the challenges associated with small sheave diameters on existing drives.

Whether powering compressors, pumps, or other critical equipment, this belt ensures that your machinery runs efficiently and reliably. The advantage of this bandless V-belt lies in its ability to provide a like-for-like replacement without the need for full-system replacements. Its advanced design not only suits small sheaves but also enhances power transmission and reduces maintenance needs.

TRI-POWER				
CROSS-SECTIONS*	**CORD TYPE**	**COMMON APPLICATIONS**	**POWER DENSITY**	**APPLICATION NOTES**
Classical: AX, BX, CX**	Polyester	General industrial applications	●●●○○	Recommended for existing drives where metal replacement is not desired.

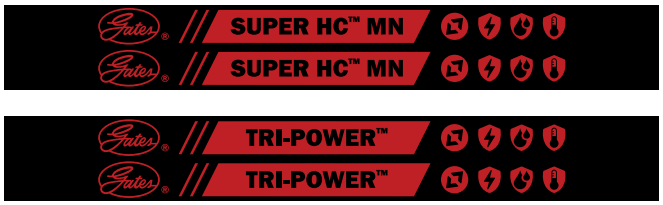
* AX, BX sections are manufactured and sold from the US.
** CX sections are manufactured and sold from the US.

CHOOSE WITH CONFIDENCE

We know that choosing the right belt can be difficult, that's why we've created a new set of standards for communicating the most important information about our V-belts. With the right information, the right choice is easy. Our label redesign will now tell you the positioning of the belt within the Gates V-belt family (between good, better, and best options) as well as the belt's specific attributes to help you find, purchase, and install the right belt for the application.

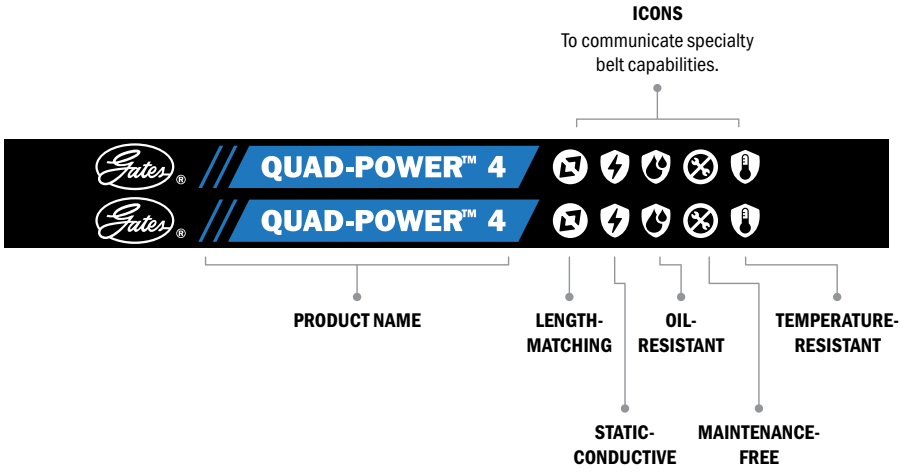
PRODUCT PLACEMENT (BETTER, BEST)

Use our color-coded system to identify the level of belt performance you need for the job. From our most cost-effective solutions, designed for general purpose applications to our best performance belts used for design-in drive creation, Gates has a V-belt solution for you.

AS EASY AS IT LOOKS		
BETTER	▪ Solid red label color ▪ Our most widely available product lines ▪ Extended replacement periods increase return on investment ▪ Designed for a wide range of applications	
BEST	▪ Multi-colored label; typically blue or yellow ▪ Regularly used by our Product Application Team for design-in drive support ▪ Created to ensure best performance ▪ Premium solution for complex drive systems	

ATTRIBUTE ICONS

When you are in the middle of a job, you don't need to be spending time trying to remember the attributes of each belt used at your facility. With the Gates V-belt icons, that information is printed directly on the product. Rest assured that you chose the right product by checking the icons for critical information like whether the belt is static-conductive, or if it can handle coming into contact with oil.



LENGTH-MATCHING

Superior belt tolerance allows multiple belts to be installed on the same drive while maintaining the correct tension over time.

STATIC-CONDUCTIVE

Conducts static electricity to prevent damage to equipment and avoid hazards in sensitive environments. Meets the following standards: ISO 1813 and ARPM IP-3-3.

OIL-RESISTANT

Made to withstand temporary contact with oil without being damaged.

MAINTENANCE-FREE

Superior Total Cost of Ownership products remove the need to retension the belt drive after installation.

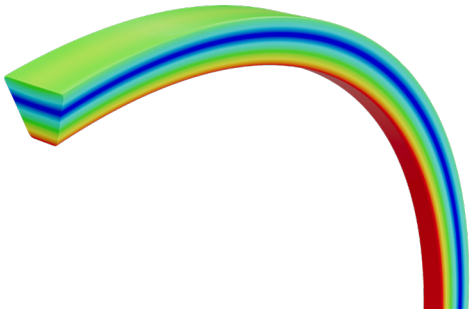
TEMPERATURE-RESISTANT

Wider temperature range than standard products for an extended lifespan in extreme conditions.

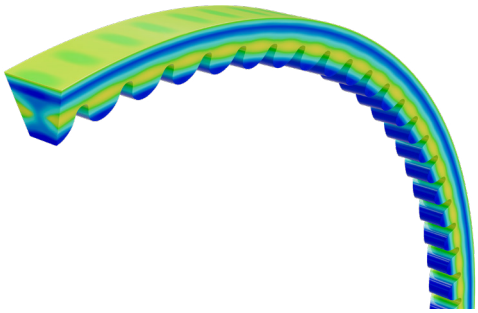
THE ETHYLENE-ELASTOMER ADVANTAGE

Gates entire bandless V-belt portfolio now exclusively utilizes EE. These v-belt compounds handle temperature extremes better than the previous Chloroprene based belts.

If your application is either very hot or very cold you need an EE V-belt. Gates bandless belts survive the extremes of everything from blast freezers, to under the hood automotive applications and steel mills without premature hardening and cracking.



Using Finite Element Analysis (FEA), the increased bending stresses are clearly visible on a belt without notches.



Molding notches into the belt helps reduce and spread out these stresses.

CONCENTRATED BENDING STRESS

OPTIMALLY DISTRIBUTED BENDING STRESS

DESIGN POWER™ MOBILE APP

DESIGN POWER™ WEB APP

DESIGN POWER™ DESKTOP APP

DESIGN YOUR NEW DRIVE WITH DESIGN POWER

GATES.COM
E2/20346