

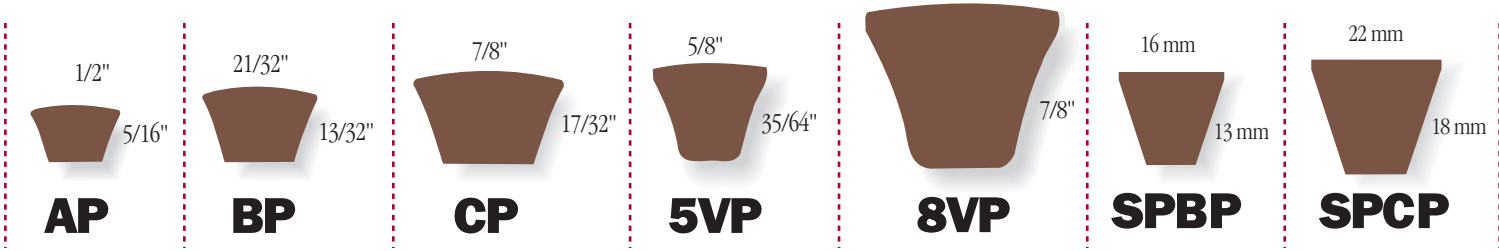


Belt I.D. Chart

For Comprehensive Product Information, see Gates Industrial Power Transmission Systems Catalog No. 19993.

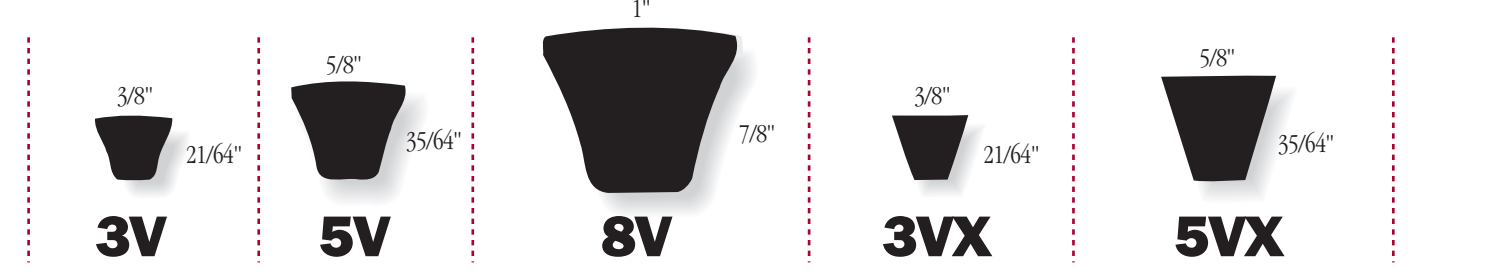
Single V-Belts

Predator® V-Belts



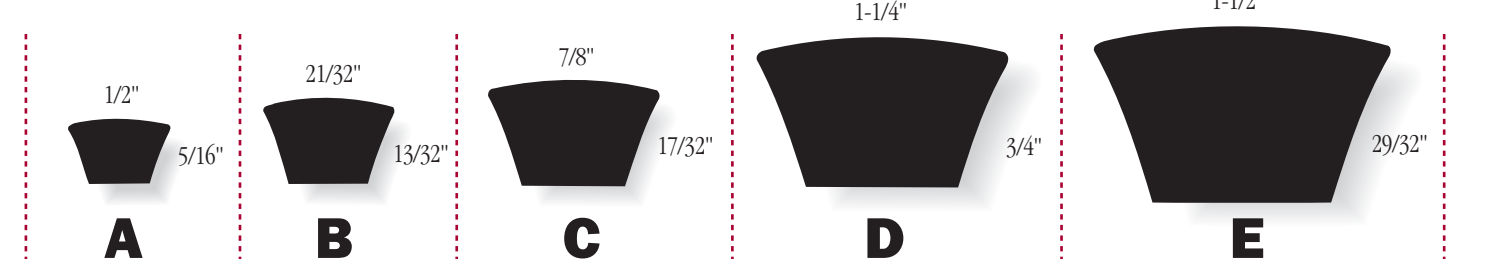
Aramid tensile cords provide superior service on high impact, shock-loaded drives.

Super HC® V-Belts



Combine cross section designation with Outside Circumference (O.C.) to the nearest whole number, plus a zero to determine Belt Part Number. Example: 5/8" top width 5VX belt with 80" O.C. equals 5VX800 V-Belt. X designates molded notch construction.

Hi Power® II V-Belts



Combine cross section plus Inside Circumference (I.C.) to determine belt part number. To calculate I.C., subtract the following values from the (O.C.):

Cross Section	A	B	C	D	E
Subtract From O.C.	2"	3" (Above 210", 1.0")	4" (Above 210", 2.0")	5" (Above 210", 3.0")	7" (Above 210", 4.0")

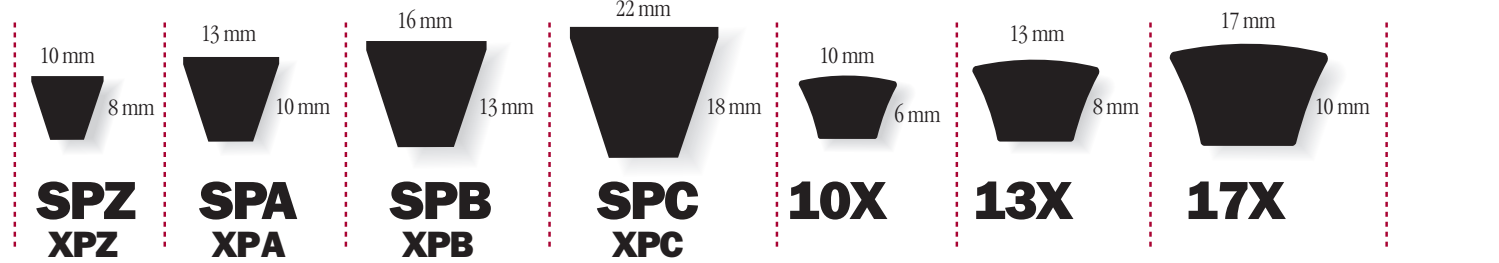
Dubl-V belts are available in AA, BB, CC and DD cross sections

Tri-Power® V-Belts

Tri-Power construction is identified by its distinctive molded notch configuration.



Metric Power® V-Belts



Molded notch construction is available in lengths under 3,000 mm only.

Multi-Speed Belts

First two digits indicate top width in sixteenths of an inch. Next two digits designate sheave angle, in degrees, that the belt is designed to fit. Last three or four digits indicate pitch length to the nearest tenth of an inch.

Example: Belt No. 2326V310 designates:

23	Top Width in 16ths of an Inch: 23/16" = 1-7/16"	26	Sheave Angle in Degrees (26)	V	Multi-Speed	310	Pitch Circumference to the Nearest 10th inch: 31.0"
----	---	----	------------------------------	---	-------------	-----	---

Truflex® & PowerRated® Light Duty V-Belts

Truflex® Part numbers are derived from industry standard number. First digit in Gates number corresponds to first two digits of industry standard number. Example: 2450 = 41.450 Belt length is to the nearest tenth of an inch. Example belt is 45.0" O.C.

PowerRated®

First two digits indicate belt top width. 67 = 3/8", 68 = 1/2", 69 = 21/32" Last two digits indicate length in inches. Example: PowerRated V-Belt 6823 has a 1/2" top width and a 23" O.C.

PowerBand® Joined Belts

Made by joining two or more single V-belts with a permanent, high strength tie-band. PowerBand belts prevent turn-over or jumping off the sheave problems associated with heavy shock-loads on individual belts. PowerBand belts use the same system of size and length designation as individual belts.

Predator® PowerBand® Belts

Available in CP, 3VP, 5VP and 8VP sections.

Super HC® & Super HC® Molded Notch PowerBand® Belts

Available in 3V, 3VX, 5V, 5VX & 8V sections.

Hi-Power® II PowerBand® Belts

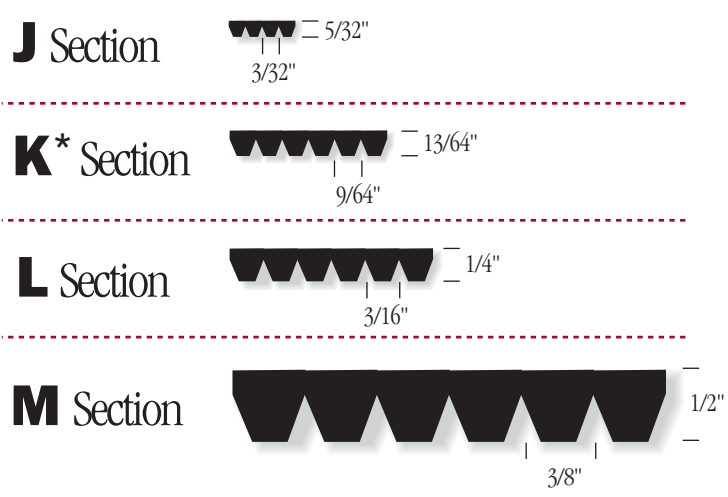
Available in A, B, C & D sections.

Micro-V® Belts

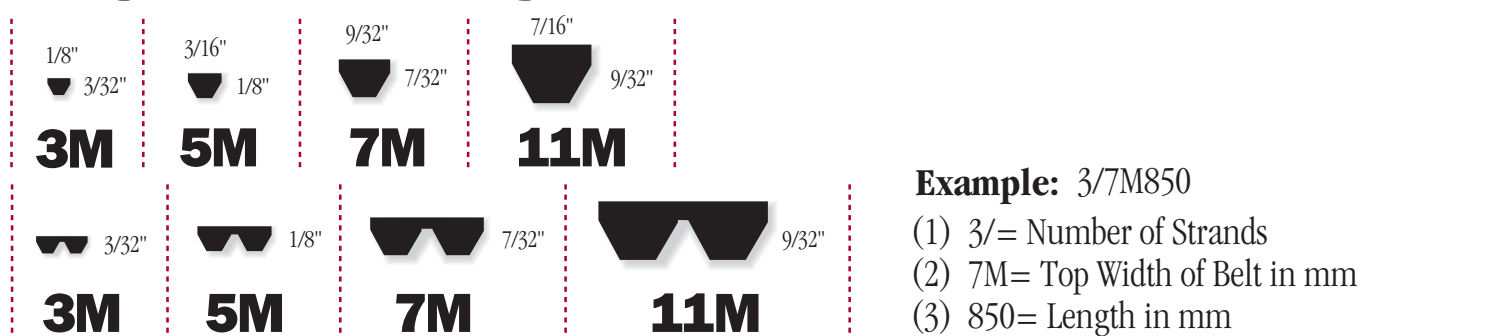
Identified by a three-part symbol consisting of:
(1) A standard length designation
(2) cross section
(3) number of ribs.

Example: The belt designation 780L12 represents:
(1) An effective length of 78".
(2) L cross section.
(3) 12 ribs wide.

*Automotive Product

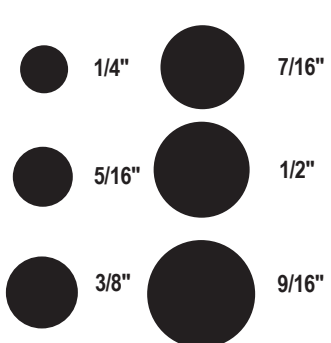


Polyflex® & Polyflex® JB® Belts

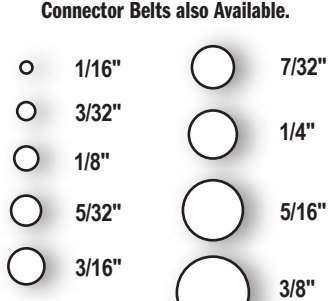


Round Endless Belts

Rubber



Urethane



Power Round Heavy-Duty Construction



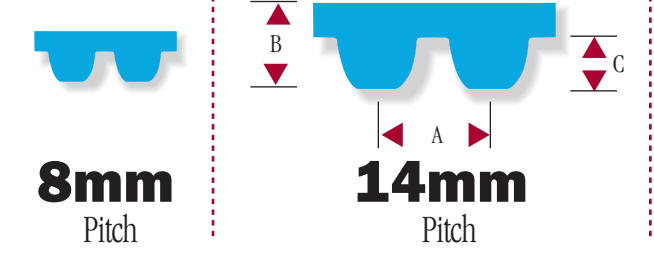
Synchronous Belts

All synchronous belts are identified in a similar manner, in either English or metric units. Belts are measured by:
1. **Pitch:** Distance in inches or millimeters between two adjacent tooth centers as measured on the belt pitch line.
2. **Pitch Length:** Total length (circumference) in inches or millimeters as measured along the pitch line. It is equal to the pitch multiplied by the number of teeth in the belt.
3. **Width:** Always shown as the last part of the size designation. Denotes width in inches or millimeters.

Poly Chain® GT® Carbon™ Belts

Examples: 8MGT-640-12 Belt 8MX-22S-12 1008 GT2 Sprocket

	Reference Dimensions		
	A	B	C
8mm	8mm .315 in.	5.9mm .233 in.	3.4mm .135 in.
14mm	14mm .552 in.	10.2mm .401 in.	6mm .236 in.

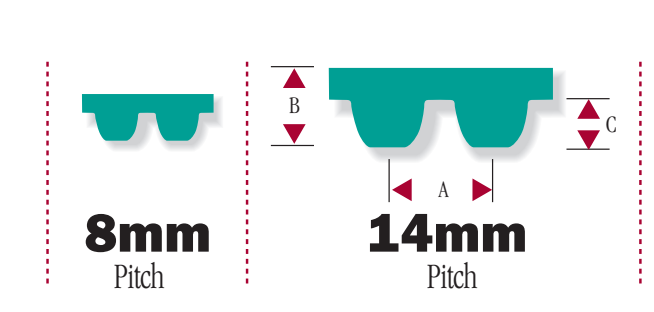


Note: Gates recommends that Poly Chain® GT® Carbon™ belts run only in Poly Chain® GT sprockets when used for new applications. Gates recommends that Poly Chain GT Carbon belts be used for replacement belts in Poly Chain GT sprockets.

Eliminator® Belts

Example: 640-8M-12E 8mm widths include: 12mm, 22mm, 35mm and 60mm
14mm widths include: 20mm, 42mm, 65mm, 90mm and 120mm

	Reference Dimensions		
	A	B	C
8mm	8mm .315 in.	5.9mm .233 in.	3.4mm .135 in.
14mm	14mm .552 in.	10.2mm .401 in.	6mm .236 in.

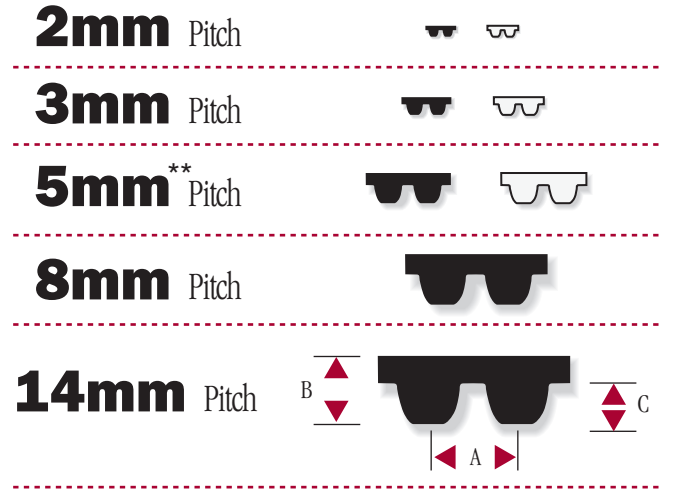


Note: Eliminator belts replace RPP® belts in RPP sprockets. RPP® is a registered trademark of Carlisle Power Transmission Products, Inc.

PowerGrip® GT® 2 and TruMotion®* Belts

Examples: 640-8MGT-20 Belt P22-8MGT-20 1108 Sprocket
5MR-300-09 Belt E5MR-300-09 Belt (TruMotion)
P18-5MGT-15 Sprocket P18-5MGT-15 Sprocket

	Reference Dimensions		
	A	B	C
2mm	2mm .0787 in.	1.52mm .060 in.	.76mm .030 in.
3mm	3mm .1181 in.	2.41mm .095 in.	1.14mm .045 in.
5mm	5mm .197 in.	3.81mm .150 in.	1.93mm .076 in.
8mm	8mm .315 in.	5.59mm .220 in.	3.28mm .129 in.
14mm	14mm .552 in.	9.91mm .390 in.	5.84mm .230 in.



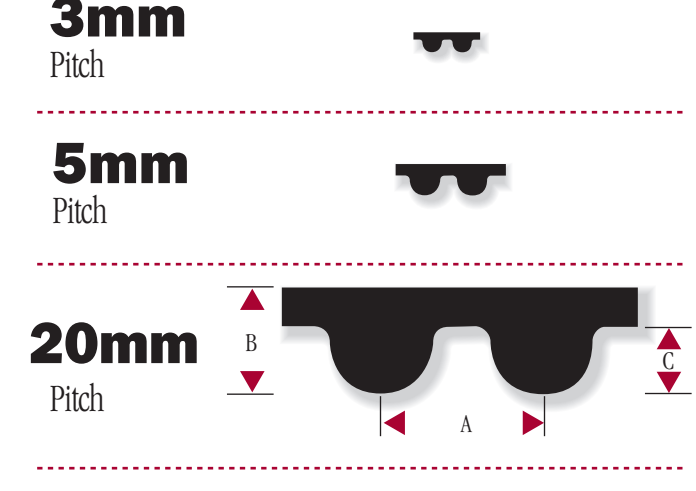
Note: PowerGrip GT2 belts must be used with PowerGrip GT2 and TruMotion sprockets for new designs. Note: 8 and 14 mm pitch PowerGrip GT2 belts can be used to replace non-Gates curvilinear belts in most instances. Reference brochure #12998-B for specific interchange information.
* TruMotion® available in 2, 3, and 5 mm pitches only.
**5mm pitch also available in Poly Chain® construction. See Catalog No. 19993.

PowerGrip® HTD® Belts

Examples: 350-5M-15 Belt P28-5M-15AL Sprocket

	Reference Dimensions		
	A	B	C
3mm	3mm .1181 in.	2.41mm .095 in.	1.22mm .048 in.
5mm	5mm .197 in.	3.81mm .150 in.	2.08mm .082 in.
20mm	20mm .787 in.	13.2mm .520 in.	8.4mm .330 in.

PowerGrip HTD belts in 3 and 5mm pitch are available in TruMotion construction on a made-to-order basis.

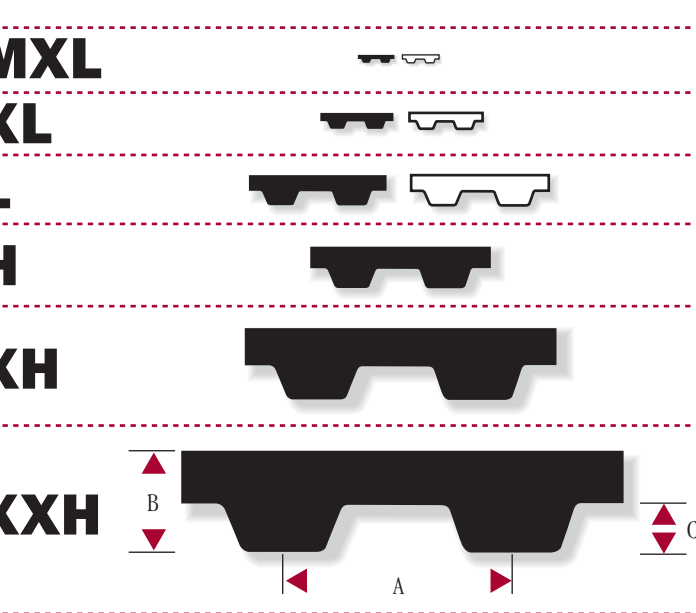


PowerGrip® and TruMotion®* Timing Belts

Examples: 210L100 Belt TL18L100 Pulley
E210L100 Belt (TruMotion) TL18L100 Pulley

	Reference Dimensions		
	A	B	C
MXL	2.03mm .080 in.	1.14mm .045 in.	0.51mm .020 in.
XL	5.08mm .200 in.	2.29mm .090 in.	1.27mm .050 in.
L	9.53mm .375 in.	3.60mm .140 in.	1.91mm .075 in.
H	12.70mm .500 in.	4.10mm .160 in.	2.29mm .090 in.
XH	22.23mm .875 in.	11.20mm .440 in.	6.35mm .250 in.
XXH	31.75mm 1.250 in.	15.70mm .620 in.	9.53mm .375 in.

For MXL pitch TruMotion part #s, please reference catalog #19993.
*TruMotion® construction available in MXL, XL, and L pitches only.



PowerGrip® Twin Power®

Example: TP800H100 Belt (Timing)

Twin Power® PowerGrip® Timing Belts

	Reference Dimension	
	A	
XL	5.08mm .200 in.	Timing
L	9.53mm .375 in.	Timing
H	12.70mm .500 in.	Timing

Example: TP1200-8MGT-20 Belt (GT2)

Twin Power® PowerGrip® GT2 Belts

	Reference Dimension	
	A	
3mm	3mm .118 in.	
5mm	5mm .197 in.	
8mm	8mm .315 in.	
14mm	14mm .552 in.	

3, 5, 8 & 14mm PowerGrip GT2 available in the standard single sided belt widths

Synchro-Power® Polyurethane Belts

Endless belts are available in metric T5 (5mm), T10 (10mm); AT5 (5mm) and AT10 (10mm) pitches.

Note: Refer to Catalog No. 19993 for widths.

Long-Length Belting

PowerGrip® and Poly Chain® Belting

Poly Chain GT2 (Aramid)	8 and 14mm	PowerGrip GT2 (Steel)	5 and 8mm
PowerGrip GT2 (Fiberglass)	2, 3, 5 and 8mm	PowerGrip HTD (Steel)	14mm
PowerGrip HTD (Fiberglass)	3, 5, 8 and 14mm	PowerGrip Timing (Steel)	H
PowerGrip Timing (Fiberglass)	MXL, XL, L and H		

Note: Minimum order quantity — 50 ft. fiberglass construction, 98 ft. steel construction, 50 ft. in Poly Chain GT2 construction. Note: Refer to Catalog No. 19993 for widths.

Synchro-Power Polyurethane Belting

Available in T5, T10, T20, AT5, AT10, AT20, WT10, 5HTD, 8HTD, 14HTD, XL, L, H, XH and WH pitches.

Note: Minimum order quantities apply. Note: Refer to Catalog No. 19993 for widths, constructions and stocked sizes.

WARNING: Do not use Gates belts, pulleys or sprockets on any aircraft propeller or rotor drive systems or in-flight accessory drives. Gates products are not designed or intended for aircraft use.

The Driving Force in Power Transmission
Gates Corporation • P.O. Box 5887 • Denver, Colorado 80217-5887
www.gates.com/pt



A Tomkins Company
Printed in U.S.A.
12998-J (6/08)