

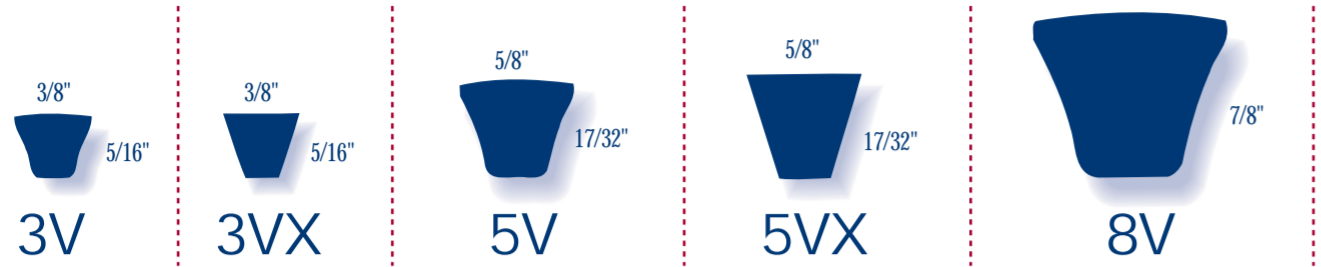
# Belt Number & Identification Chart



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

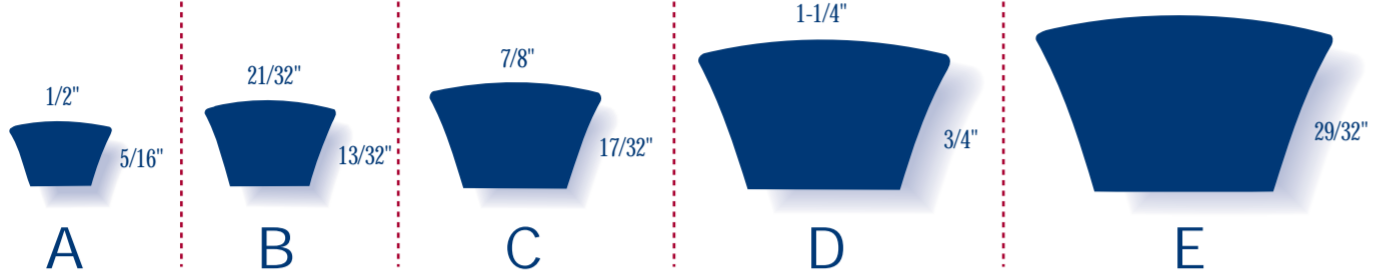
## V-Belts

### 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



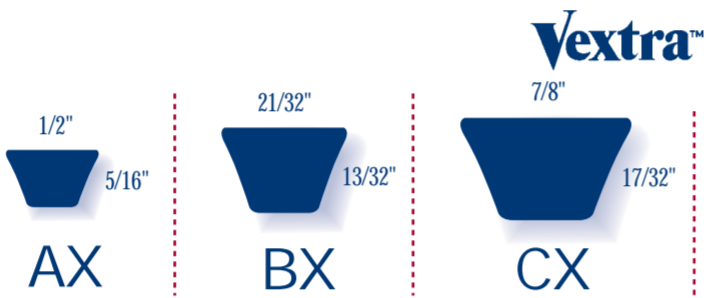
Combine cross section plus Inside Circumference (I.C.) to determine belt part number. To calculate I.C., subtract the following values from the (O.C.):

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")

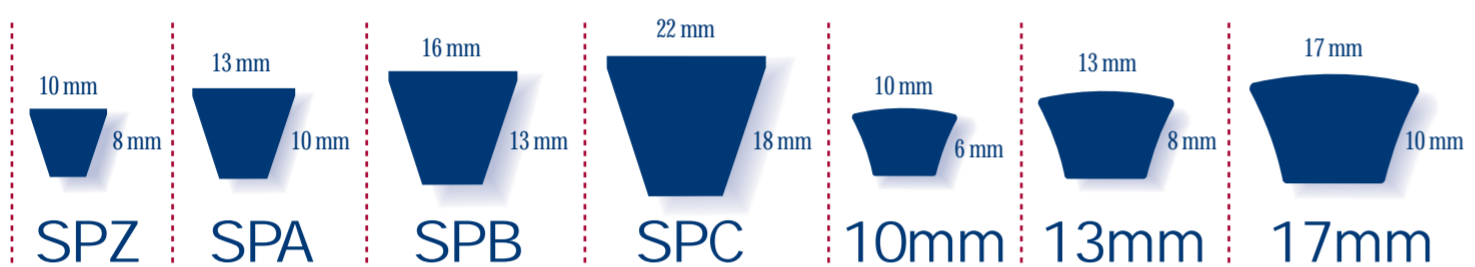
Dubl-V belts are available in AA, BB, CC and DD cross sections

### Tri-Power® V-Belts

Tri-Power construction is identified by its distinctive molded notch configuration. To determine part number, follow method for Hi Power II belts.



### Metric Power® V-Belts



Narrow and classical sizes in molded notch construction. Lengths over 3,000mm are banded construction.

### Multi-Speed Belts

#### Explanation of Numbering System

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:

<b>23</b> Top Width in 16ths of an Inch: 23/16" = 1-7/16"	<b>26</b> Sheave Angle in Degrees (26)	<b>V</b> Multi-Speed	<b>310</b> Pitch Circumference to the Nearest 10th Inch: 31.0"
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### Truflex® & PowerRated® Light Duty V-Belts

#### Truflex Belt Number System

Part numbers are derived from Industry Standard Number. First digit in Gates number corresponds to first two digits of Industry Standard Number.

For Example: **4L450**. 2450 = 4L450 Belt length is to the nearest tenth of an inch.

Example belt is 45.0" O.C.

#### PowerRated Belt Numbering System

First two digits are belt top width in inches.

**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.

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

The same 3V, 3VX, 5V, 5VX & 8V sections are available as in single Super HC & Super HC Molded Notch belts. 3VX & 5VX PB available in Vextra construction.

### Hi-Power® II PowerBand® Belts

The same A, B, C & D sections are available as in single Hi-Power II belts. A section PowerBand belts may be made to order.

### Predator® PowerBand® Belts

**Aramid tensile cords** provide superior service on high impact, shock-loaded drives. Available in selected sizes of Super HC and Hi-Power II belts.

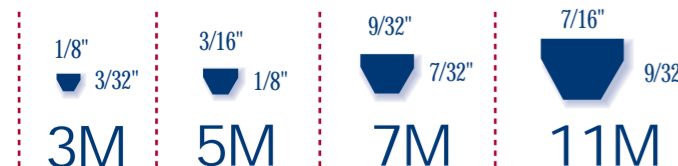
### Micro-V® Belts

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.

### Polyflex® & Polyflex® JB® Belts



\*Available standard in 2 or 3 strands.

\*\*Available standard in 2, 3, 4, and 5 strands.

## 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.

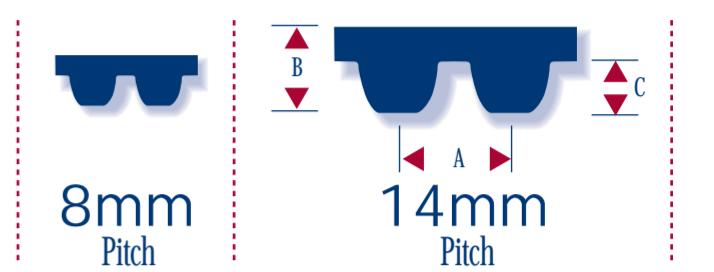
### Poly Chain® GT<sup>2</sup> Belts

Available in 8mm and 14mm pitches.

**Examples:** 8MGT-640-12 Belt 8MX-225-12 1008 GT2 Sprocket

**8mm widths include:** 12mm, 21mm, 36mm, 62mm;  
**14mm widths include:** 20mm, 37mm, 68mm, 90mm, 125mm

Stock Belt Pitch	Reference Dimensions				
	PL (mm)	PL (in.)	A	B	C
8mm	640	25.20	8mm	5.9mm	3.4mm
	4480	176.38	.315 in.	.233 in.	.135 in.
14mm	994	39.13	14mm	10.2mm	3.4mm
	4410	173.62	.552 in.	.401 in.	.236 in.



**NOTE:** Gates recommends that Poly Chain GT2 belts run only in Poly Chain GT2 sprockets when used for new applications. Gates recommends that Poly Chain GT2 belts be used for replacement belts in Poly Chain GT sprockets.

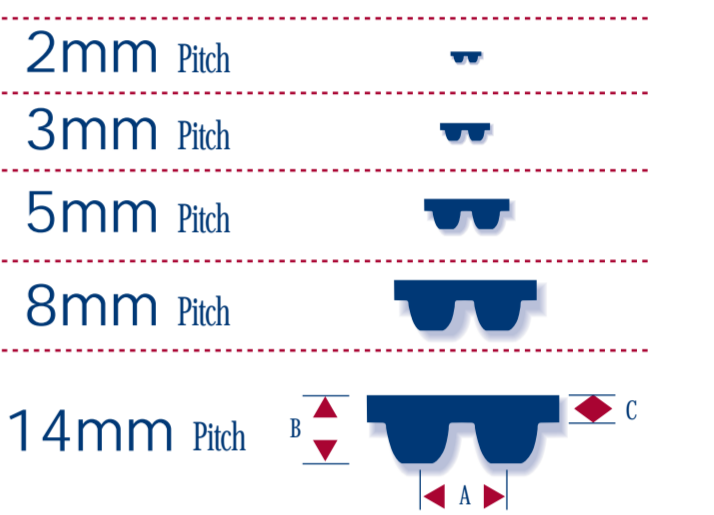
### PowerGrip® GT<sup>2</sup> Belts

Available in 2mm, 3mm, 5mm, 8mm, 14mm and 20mm pitches.

**Examples:** 640-8MGT-20 Belt P22-8MGT-20 1108 Sprocket

**2mm widths include:** 4mm, 6mm, 9mm; **3mm widths include:** 6mm, 9mm, 15mm; **5mm widths include:** 9mm, 15mm, 25mm; **8mm widths include:** 20mm, 30mm, 50mm, 85mm; **14mm widths include:** 40mm, 55mm, 85mm, 115mm, 170mm;

Stock Belt Pitch	Reference Dimensions				
	PL (mm)	PL (in.)	A	B	C
2mm	100	3.94"	2mm	1.52mm	.76mm
	1164	45.83"	.0787 in.	.060 in.	.030 in.
3mm	219	8.62"	3mm	2.41mm	1.14mm
	2061	81.14"	.1181 in.	.095 in.	.045 in.
5mm	300	11.81"	5mm	3.81mm	1.93mm
	2100	82.67"	.197 in.	.150 in.	.076 in.
8mm	384	15.12"	8mm	5.59mm	3.28mm
	4400	173.25"	.315 in.	.220 in.	.129 in.
14mm	966	38.03"	14mm	9.91mm	5.84mm
	6860	270.07"	.552 in.	.390 in.	.230 in.



**Note:** PowerGrip GT2 belts must be used with PowerGrip GT2 sprockets for new designs

**Note:** 8 and 14 mm pitch PowerGrip GT2 belts can be used as replacement belts at the next smaller width for the following: HTD, Rpp, Rpp+Plus, HTB, HPT, HT100, HT150, ETH, HPR, HPPD, EHT or HTT.

**Example:** 14mm-170mm width — substitute a PowerGrip GT2-14mm-115 without any performance loss.

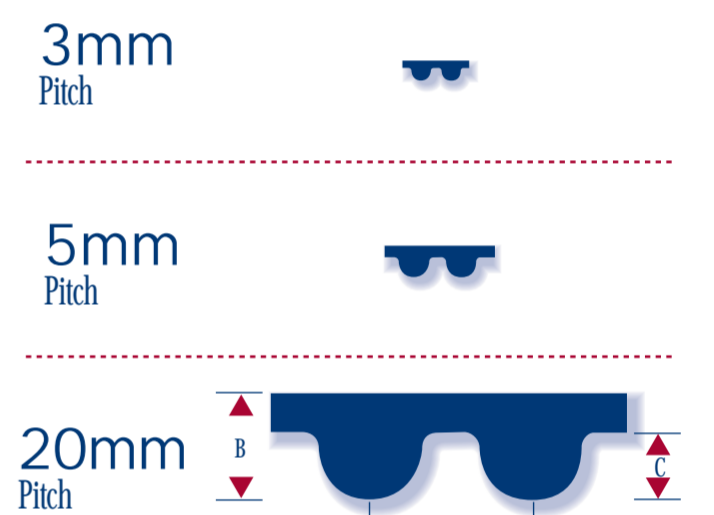
### PowerGrip® HTD® Belts

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

Stock Belt Pitch	Reference Dimensions				
	PL (mm)	PL (in.)	A	B	C
3mm	150	5.91"	3mm	2.41mm	1.22mm
	1263	49.72"	.1181 in.	.095 in.	.048 in.
5mm	350	13.78"	5mm	3.81mm	2.08mm
	2525	99.40"	.197 in.	.150 in.	.082 in.
20mm	2000	212.60"	20mm	13.2mm	8.4mm
	6600	259.84"	.787 in.	.520 in.	.330 in.

Available in 3mm and 5mm pitches.

**3mm widths include:** 6mm, 9mm, 15mm  
**5mm widths include:** 9mm, 15mm, 25mm  
**20mm widths include:** 115mm, 170mm, 230mm, 290mm, 340mm



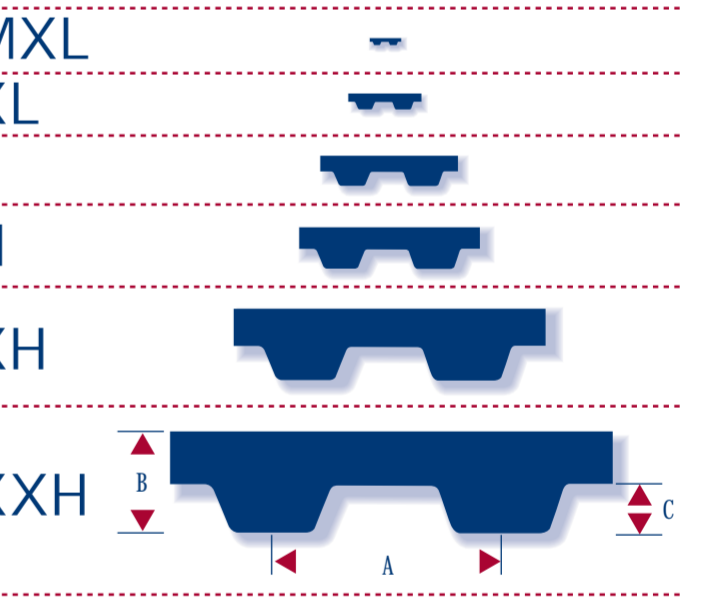
### PowerGrip® Timing Belts

Available in the following widths:

<b>MXL widths include:</b> 012 (.125"), 019 (.188"), 025 (.250")	<b>XL widths include:</b> 025 (.250"), 037 (.375")	<b>L widths include:</b> 050 (.500"), 075 (.750"), 100 (1.000")	<b>H widths include:</b> 075 (.750"), 100 (1.000"), 150 (1.500")	<b>XH widths include:</b> 200 (2.000"), 300 (3.000"), 400 (4.000")	<b>XXH widths include:</b> 200 (2.000"), 400 (4.000"), 500 (5.000")
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**Examples:** 210L100 Belt 18L100Pulley

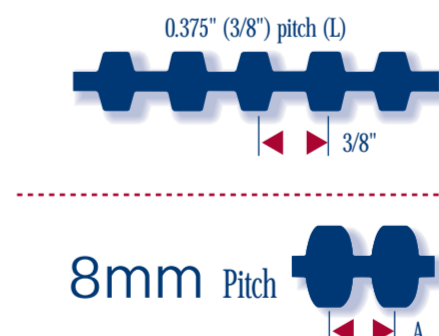
Stock Belt Pitch	Reference Dimensions				
	PL (in.)	A	B	C	
MXL	3.60"	2.03mm	1.14mm	0.51mm	
	32.00"	.080 in.	.045 in.	.020 in.	
XL	5.00"	5.08mm	2.29mm	1.27mm	
	77.00"	.200 in.	.090 in.	.050 in.	
L	12.38"	9.53mm	3.60mm	1.91mm	
	81.75"	.375 in.	.140 in.	.075 in.	
H	21.00"	12.70mm	4.10mm	2.29mm	
	170.00"	.500 in.	.160 in.	.090 in.	
XH	50.75"	22.23mm	11.20mm	6.35mm	
	175.00"	.875 in.	.440 in.	.250 in.	
XXH	70.00"	31.75mm	15.70mm	9.53mm	
	180.00"	1.250 in.	.620 in.	.375 in.	



### PowerGrip® & PowerGrip® GT<sup>2</sup> Twin Power® Belts

#### Timing Belts

Stock Belt Pitch	PL (in.)	Pitch
XL	12.40"	5.08mm
	85.00"	.200 in.
L	15.00"	9.53mm
	94.50"	.375 in.
H	21.00"	12.70mm
	233.00"	.500 in.



**XL widths include:** 025 (.250"), 037 (.375")  
**L widths include:** 050 (.500"), 075 (.750"), 100 (1.000")  
**H widths include:** 075 (.750"), 100 (1.000"), 150 (1.500"), 200 (2.000"), 300 (3.000")

**Examples:** TP800H100 Belt (Timing) TP1200-8M-20GT Belt (GT) TP1200-8MGT-20 Belt (GT2)

#### PowerGrip GT2

Stock Belt Pitch	PL (mm)	PL (in.)	A
3mm	375	14.76"	3mm
	2061	81.14"	.118 in.
5mm	400	15.75"	5mm
	3800	149.61"	.197 in.
8mm	560	22.05"	8mm
	4400	173.23"	.315 in.
14mm	966	38.03"	14mm
	4578	180.24"	.552 in.

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

**Note:** Additional sizes available

### Synchro-Power® Polyurethane Belts

Endless belts are available in metric T2.5 (2.5mm), T5 (5mm), T10 (10mm); AT5 (5mm) and AT10 (10mm) pitches.

Available in conventional pitches: MXL (.080") and XL (.375")

Also available are the double sided toothed belts T5DL (5mm) and T10DL (10mm) pitches.

**Note:** Refer to Catalog No. 19993 for widths.

## Long Length Belting

### Long Length Belting

Available in 8mm and 14mm — Poly Chain® GT<sup>2</sup>

2mm, 3mm, 5mm & 8mm PowerGrip GT2 (Fiberglass) — 5mm & 8mm PowerGrip GT2 (Steel)

3mm, 5mm, 8mm & 14mm PowerGrip HTD (Fiberglass) — 14mm PowerGrip HTD (Steel)

MXL, XL, L and H pitch PowerGrip Timing (Fiberglass) — XL, L and H pitch PowerGrip Timing (Steel)

**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.



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Gates Corporation • P.O. Box 5887 • Denver, Colorado 80217-5887

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