

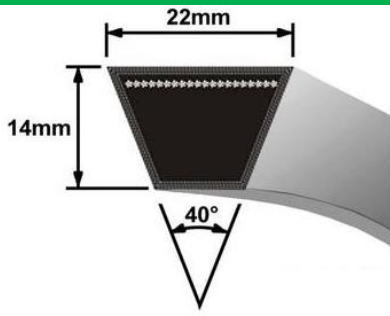
V-BELT REPLACEMENT GUIDE



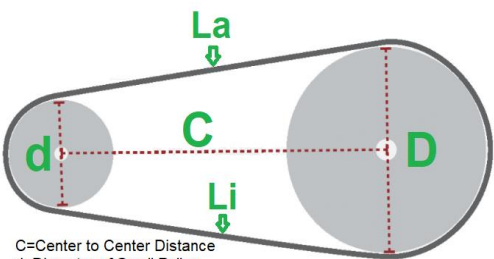
How to Measure a V-Belt – *If you don't have a belt measuring tool*

Common Types of Drive Belts - Determine the Type of Belt you need.

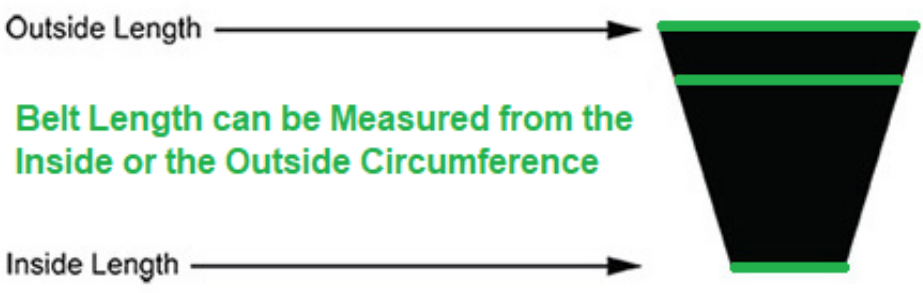
The most accurate way to measure the circumference of a V-Belt is with a V-Belt measuring tool or using a Tailors tape measure (Not a steel measuring tape or ruler) An additional option is to wrap a small diameter string/rope around the belt, then measure the length of the string. Keep in mind belts do stretch and unfortunately there is no specific given value for how much a belt stretches. You'll also need to measure the width and depth to determine which type of Belt you need.



Measurements in mm



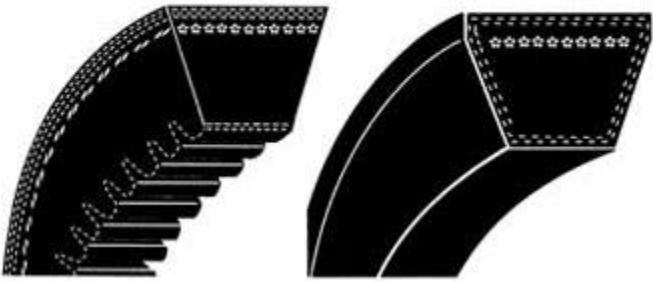
C=Center to Center Distance
d=Diameter of Small Pulley
D=Diameter of Large Pulley
La=Belt Length Outside
Li=Belt Length Inside



Belt Length can be Measured from the Inside or the Outside Circumference

Cogged V-Belt

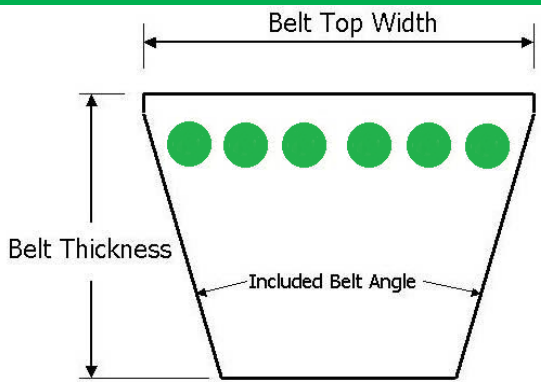
V-Belt

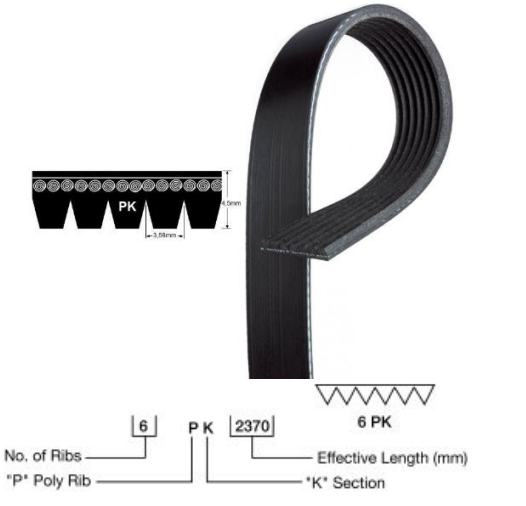


Cogged belts are same profile as the V-belts but have notches on the inside making them more flexible

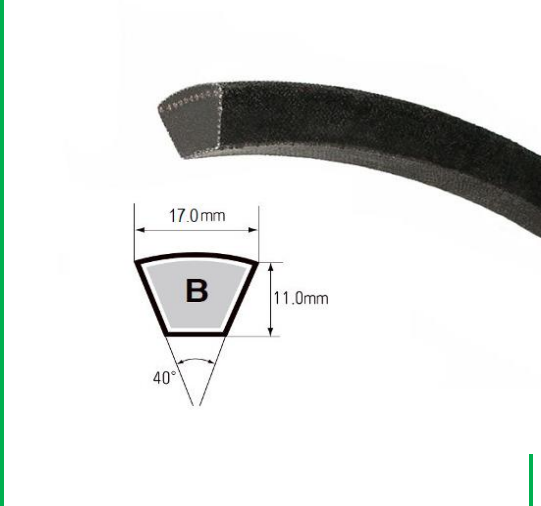
Classic V Belt Sections

- 3L Section - 3/8" Width X 7/32" Depth
- A/4L Section - 1/2" Width X 5/16" Depth
- B/5L Section - 5/8" Width X 13/32" Depth
- C Section - 7/8" Width X 17/32" Depth
- D Section - 1-1/4" Width X 3/4" Depth
- E Section - 1-1/2" Width X 29/32" Depth
- AX Cogged Section - 1/2" Width X 5/16" Depth
- BX Cogged Section - 5/8" Width X 13/32" Depth
- CX Cogged Section - 7/8" Width X 17/32" Depth





Multi-Rib Belts- PK



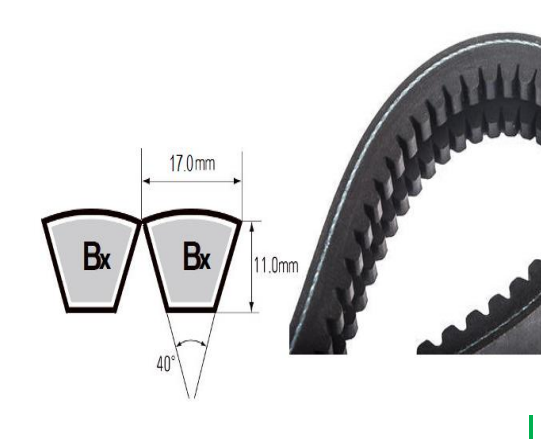
B Section V-Belt -B



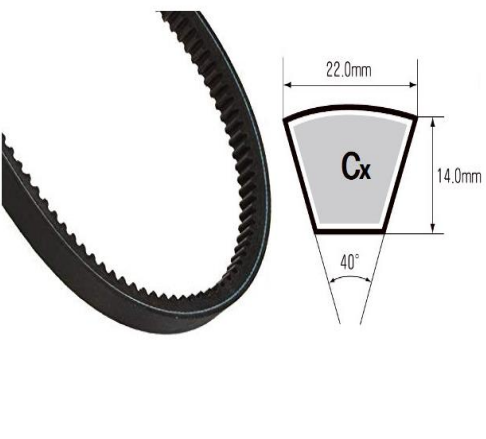
2/B Section V-Belt- 2HB



Cogged V-Belt -BX



2BX Cogged V-Belt -2RBX



C Section Cogged V-Belt -CX

Majority of Belt Manufacturers advertise A,B,C,D,E,AX,BX belts with the inside circumference measurement in inches after the letter of the V-Belt section. Example: A88 has an 88" inner circumference. You can Add or Subtract to the number you have to determine Inside (Li) or outside (La) circumference. Eg. By adding 2" to A88 , we get 90" outside circumference. If you measure the outer circumference, then you would subtract the number of inches based on the section you have to obtain the V-Belt inside circumference. This is also the same for the banded belts. Measure one band to obtain the correct width.

Examples of how belt numbers are coded per section:

- A Section= Add 2" to belt number (Example A88 = 90" Outside Circumference)
- B Section= Add 3" to belt number (Example B88 = 91" Outside Circumference)
- C Section= Add 4" to belt number (Example C88 = 92" Outside Circumference)
- D Section= Add 5" to belt number (Example D105 = 110" Outside Circumference)
- E Section= Add 6" to belt number (Example E144 = 150" Outside Circumference)
- AX Section= Add 2" to belt number (Example AX60 = 62" Outside Circumference)
- BX Section= Add 3" to belt number (Example BX50 = 53" Outside Circumference)

Covert inches to mm

Multiply inches by 25.4 to get measurement in mm

Eg: A88" x 25.4 = 2235mm - A2235 Inside Circumference (Li)
 A90" x 25.4 = 2286mm - A2286 Outside Circumference (La)



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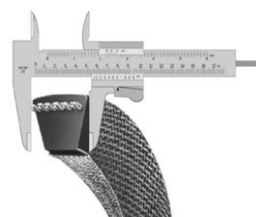
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Measuring Tools You Can Use

				
Belt Measuring Tool	Measuring Tape	Tailors Tape	Rope	Vernier Caliper

Steps to Measure on an Old V-Belt – 1 Band

- 1- Measure the width of the Belt to determine the Section Type
Eg. B section is approx. 17mm Wide
Refer to page 1 for different Belt Sections



Step 1

Measure the Length of the Belt – **With an Old V-belt**

- 2- Mark the Side of the V-Belt – with a white or visible coloured marker
- 3- Mark the start point on a flat Surface eg: floor
- 4- On the flat surface rotate the belt to start from the marked point on the belt
- 5- Roll the belt straight forward along the flat surface until the marked point rolls back onto the flat surface
- 6- Mark the end point on the flat surface
- 7- Measure the distance between the two marked point on the flat surface to determine the belt outside circumference

Step 2

Step 3

Step 4

Step 5

Step 6

Step 7

Measure the Length of the Belt – **If the Belt is Missing – V-BELT**

- 2- Loosen all Tensioning equipment to minimum setting eg. Belt Tensioners, Compressor Pulley/ mount plate & Idler Pulley
- 3- Use a rope to wrap around all pulleys - On pulley A - Use a rope to run around the top inner groove- Resting the rope on the groove edge, so when pushed in, it will fall into the pulley groove
- 4- On Pulley B/C- Now wrap the rope around the second/Third pulley so that it rests on the outer groove so when pushed in, it will fall into the pulley groove
- 5- Once rope has been wrapped all the way around the 2 pulleys –Mark the Ropes Start & Finish Points , remove from pulleys & take measurements

Step 2

Step 3

Step 4

Step 5

