



RELIABILITY IN EVERY REVOLUTION

TECH TIPS

V-Belt Measuring

There are three different points on the v-belt to measure from:

La – OC (Outer Circumference)

- This is outside measurement of the belt under proper measuring tension.
- This is a commonly used method for high power profile design belts. This is not the most accurate way to measure a belt, however it is the easiest way to measure a belt.
- This can be quite commonly done by wrapping a tape measure around the outside of the belt with proper tension on the belt.

Le – Effective Length

- Le would usually be considered the most accurate way to measure the belt.
- You are measuring the length of the belt from the angles on the side of the belt by running the belt on 2 sheaves under a set tension.
- You should use the smallest sheaves per ISO specs. The formula would be the size of the diameter of both sheaves multiplied by 1.57, plus the center-to-center distance multiplied by 2, and then add those numbers together. This formula applies only if the pulleys are the same size.

Li – Inside

- Li is the inside length measurement, which is commonly used with classical lines or profiles.
- This is measured by adding the circumference of the shaft to 2x the center-to-center shaft distance.

