

## Installation and Maintenance Best Practices

### INSPECT SHEAVES

Use a stiff brush to remove rust and dirt. Use a soft cloth to wipe off oil and grease. Select the proper sheave groove gauge and template for the sheave diameter. Insert the gauge in the groove and look for voids that indicate dishing or other uneven and abnormal wear.

### CHECK ALIGNMENT

Proper alignment is essential for long v-belt life. Check belt alignment whenever you maintain or replace belts or whenever you remove or install sheaves. Limit misalignment to 1/2 degree or approximately 1/10 per foot of center distance.

### IDENTIFY CORRECT BELT

Always select belts to match sheave grooves. Use a sheave groove gauge to determine the proper belt cross section. Use a belt gauge to verify the old belt cross section when belt identification is no longer legible.

### MATCHING BELTS

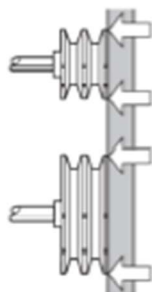
When using multiple grooved sheaves, be sure that all the belts are the same brand. Always replace complete sets of v-belts even if only one is worn or damaged.

### INSTALLING BELTS

After you correctly install and align the sheaves, you can install the belts. Always move the drive unit so you can easily slip the belts into the grooves without force. Never force belts into a sheave with a tool such as a screwdriver or a wedge. Doing so may rupture the envelope fabric or break the cords.

### TENSION

Proper tension is essential for maximum belt life and efficiency. Improper belt tension is the primary cause of premature belt failure and increased costs. Under-tensioned belts lead to higher maintenance costs and inefficient transmission of power. Over-tensioned belts lead to premature wear and potential bearing, shaft and sheave problems. The result is more frequent replacement of drive components and costly downtime.



The illustration shows the correct way to check alignment between two sheaves with a straight edge. Check both front and back alignment, straight edge should touch sheaves at the four points indicated.

### ENERGY SAVING PRODUCTS

#### Laser Alignment Tool

Quickly align drive components to improve efficiency and reduce maintenance costs.



#### TensionRite™ Belt Frequency Meter

Using advanced optical technology, meter provides a simple, repeatable, and reliable method for tensioning all belt types.

#### Synchronous Belt Drives

Achieve 98% drive efficiency with SilentSync®, Synchrochain Carbon & Falcon Pd® belt systems. Benefits include energy savings, longer belt life and reduced maintenance costs.



#### MaximizerPro™

Drive selection analysis software program for easy & accurate selection of energy saving belt solutions.

