

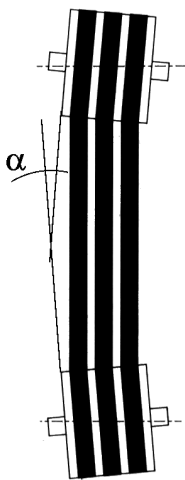


A proper installation is an important aspect for transmitting power with a transmission with Veco V-belts.

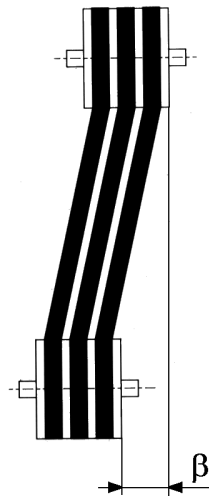
It must respect the parallelism of the shafts, the alignment of the pulleys and the correct setting of the DYNAM® tension device. The installation must also respect the following instructions :

- Use identical grooves profiles according to usual norms and tolerances. Make sure that grooves are clean and adequate to the belt's section used.
- Do not force when installing the belt in the grooves of the pulleys. Any kind of excessive effort can damaged the tensile cord. If necessary, reduce distance between shafts.
- If more than one belt are used, it is necessary to change them all in case of problem with one of them.
- Never use greasy or dissolving products which reduces considerably the adhesion factor of the VECO belt.

**Shaft's parallelism and alignment of the pulleys :**



Non parallel shafts



Parallel shafts, not aligned pulleys



Correct installation

**Maximum Misalignment**

$$\alpha \text{ maxi} = 0,5^\circ \quad \text{OU} \quad \beta \text{ maxi} = 8 \text{ mm per meter of distance between shafts}$$

**Installation tension :**

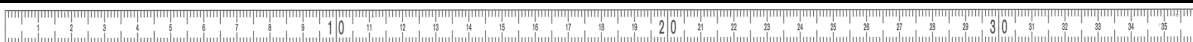
The DYNAM label allows the proper tension thanks to a mark printed on the back of the belt.

- Tense the belt progressively controlling the length between the two marks.
- When length between marks is reached, start the transmission for a few revolutions.
- Check the length between the marks again, the tension of the belt is completed.

**Attention :** Always measure this length between the outside of the marks.

Following this instructions will guaranty the optimum working of your transmission.

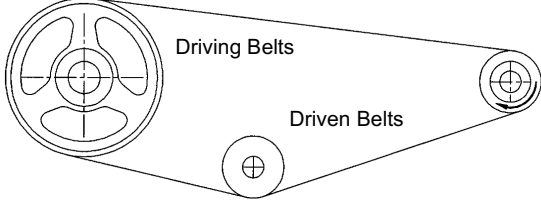
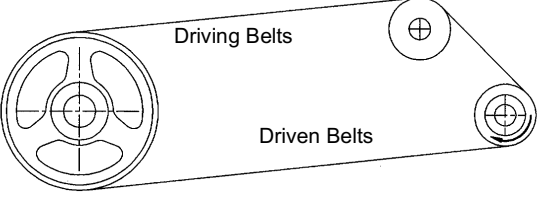
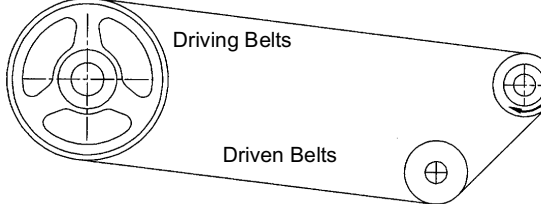
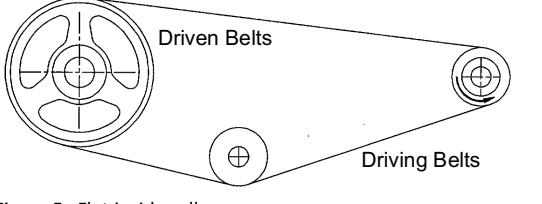
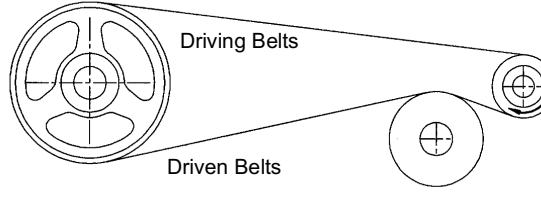
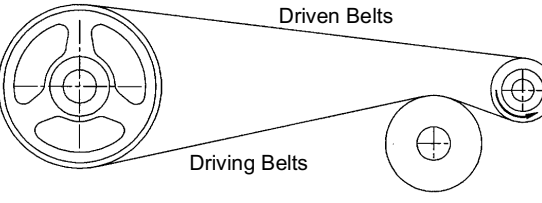
**Tension of the installation / Init tension = 350 mm**





### Use of tensile rollers

With V-belts, the rollers can be used to set the tension when none of the shafts can be moved, or to limit the vibrations. A tensile roller can be flat or with grooves, set on the driven belts (preferably) or on the driving belts, inside (preferably) or outside of the belts. This leads to 6 current positions, shown of the drafts below. The roller's diameter must be the biggest possible, at least the diameter of the small pulley.

<b>Roller on driven belts :</b>	<b>Rollers on driving belts :</b>
<p>When roller can be blocked, this device is the most secure to avoid belts slipping. A mobile roller with weight or spring can be used if there is not risks that the torque be inverted.</p>  <p><b>Figure 1 : Roller with inside grooves</b> Compulsory with wedge belts. Location and direction : to be determined by design in order to insure that the contact of belt with pulley is almost the same.(afterwards, the roller will be closer to the bigger pulley than the small one).</p>	<p>The roller must necessarily be blocked in that position.</p>  <p><b>Figure 4 : Roller with grooves</b></p>
 <p><b>Figure 2 : Flat inside roller</b> The closest possible to the driving pulley making sure that the contact is sufficient.</p>	 <p><b>Figure 5 : Flat inside roller</b> Use of the rollers with double setting; taking into account the efforts on the belts</p>
 <p><b>Figure 3 : Flat outside roller</b></p>	 <p><b>Figure 6 : Flat outside roller</b></p>

