

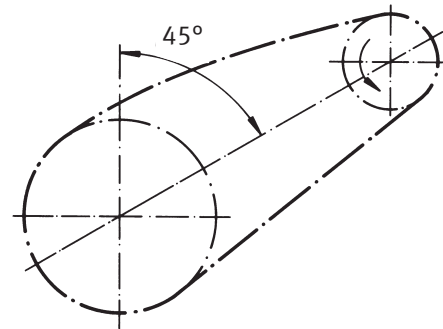
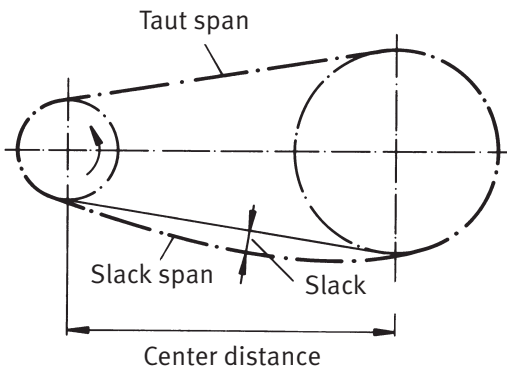
# Proper Chain Tension

## Guidelines:

Proper tension of a roller chain is best achieved by applying 5% of the actual load seen by the chain. If this is unknown, applying 1% of the chain breaking load may be substituted.

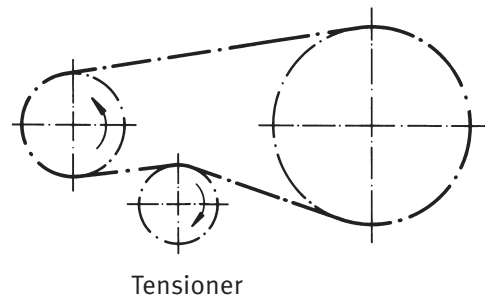
Other methods for standard drive Layouts

- Chain slack on horizontal drivers should be 2-3% of the total center distance of the sprockets. This distance is slack measured in one direction as shown below.
- Chain slack on vertical drivers (>45) should be 1% of the total center distance of the sprockets. This distance is the amount of movement in the chain in one direction.



## Recommendations:

1. Measure chain slack using guidelines above.
2. If slack is excessive, increase tension by
  - A** moving sprockets center distance
  - B** if sprockets are fixed adjust chain tensioning device.
3. When slack exceeds ability to tension replace chain and sprockets.



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