

# Use of tension pulleys

## 1 Conditions of use for tension pulleys

Use a tension pulley only in the following cases.

When the center distance cannot be adjusted.

To increase the number of teeth in mesh on the small pulley

## 2 Tension pulley installation

Place a tension pulley on the slack side of the belt and be sure to align it properly.

### Inner tension pulley

Use a pulley of at least the smallest diameter in the catalog when providing tension from the inside.

- Position the inner tension pulley near the large pulley on the slack side.
- Use a toothed pulley as the tension pulley.

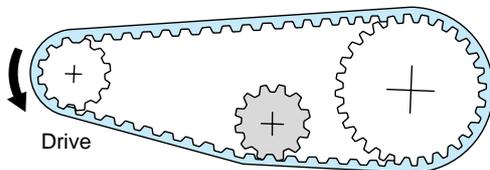


Fig. 3-7

### Outer tension pulley

Use a pulley of at least 20% more of the smallest diameter in the catalog when providing tension from the outside.

- Position the outer tension pulley near the small pulley on the slack side.
- Ensure a belt bend angle of  $140^\circ$  or more.
- Use a flat pulley for the tension pulley.
- Do not use outside idlers with polyurethane belts.

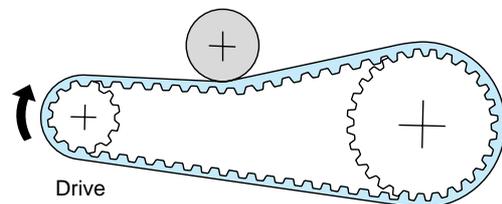


Fig. 3-8

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Reference

