Clamps and Tensioner Idlers

Solutions for Fixed-Center Drives and Timing Belt Linear Drives
Clamps and Tensioner Idlers

Solutions for Timing Belt Linear Drives

All timing belt linear drives require a clamp to transfer the belt motion to linear shuttle travel. BRECOflex clamps and tensioning clamps for Metric and English pitch belts ensure a solid attachment for utilization of full belt strength. Custom clamps are available in various materials and coatings.

Recommended Clamp types and Application Examples

- **Standard Clamp**
  
  Standard Clamp - used for connecting both belt ends together at the carriage

- **Half Clamp**
  
  Half Clamp - used for connecting each belt end to the carriage or machine frame

- **Tensioning Clamp**
  
  Tensioning Clamp - used like a half clamp, but also to adjust tension in the system
Standard Clamps - T-Series

Standard Clamps (Metric pitches) - Used for connecting both belt ends

Clamp part description:
B x L (belt pitch) Type (O or B)
Type O = clamp with no holes
Type B = clamp with holes (shown)

Note:
- Standard material is AL 60601
- 5 teeth minimum engagement recommended at each belt end

(*) 6 mounting holes for T2.5 clamps

<table>
<thead>
<tr>
<th>Belt Pitch</th>
<th>Belt Width b (mm)</th>
<th>Part Description</th>
<th>B (mm)</th>
<th>L (mm)</th>
<th>d (mm)</th>
<th>m (mm)</th>
<th>a (mm)</th>
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**Clamps**

**Standard Clamps - AT-Series**

*Standard Clamps (Metric pitches) - Used for connecting both belt ends*

Clamp part description:
- B x L (belt pitch) Type (O or B)
  - Type O = clamp with no holes
  - Type B = clamp with holes (shown)

Note:
- Standard material is AL 6061
- 5 teeth minimum engagement recommended at each belt end

---

**Standard Clamp Dimensions - AT Series Metric**

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<tr>
<th>Belt Pitch</th>
<th>Belt Width b (mm)</th>
<th>Part Description</th>
<th>B (mm)</th>
<th>L (mm)</th>
<th>d (mm)</th>
<th>m (mm)</th>
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Clamps

Standard Clamps - Imperial Series

**Standard Clamps (Imperial pitches)** - Used for connecting both belt ends

Clamp part description:
- B x L (belt pitch) Type (O or B)
  - **Type O** = clamp with no holes
  - **Type B** = clamp with holes (shown)

Note:
- Standard material is AL 6061
- 5 teeth minimum engagement recommended at each belt end

<table>
<thead>
<tr>
<th>Belt Pitch</th>
<th>Belt Width b(mm)</th>
<th>Part Description</th>
<th>B (mm)</th>
<th>L (mm)</th>
<th>d (mm)</th>
<th>m (mm)</th>
<th>a (mm)</th>
<th>c (mm)</th>
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(*) Belt widths only available in truly endless construction.
Clamps

Half Clamps - T and HTD Series

Standard Clamps (Metric pitches) - Used for connecting both belt ends

Clamp part description:
B x L (belt pitch) Type (O or B)
Type O = clamp with no holes
Type B = clamp with holes (shown)

Note:
- Standard material is AL 6061
- 5 teeth minimum engagement recommended at each belt end

### Half Clamp Dimensions - T and HTD(M) Metric

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<th>Belt Width b(mm)</th>
<th>Part Description</th>
<th>B (mm)</th>
<th>L (mm)</th>
<th>d (mm)</th>
<th>m (mm)</th>
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Clamps

Half Clamps - AT- Series

Standard Clamps (Metric pitches) - Used for connecting both belt ends

Clamp part description:
- B x L (belt pitch) Type (O or B)
- Type O = clamp with no holes
- Type B = clamp with holes (shown)

Note:
- Standard material is AL 6061
- 5 teeth minimum engagement recommended at each belt end

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## Tensioning Clamp Options

_Tensioning Clamps - Used to connect to one belt end and apply tension to the belt_

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- **Clamp Plate with Top Plate**
  - Type A-1 without tensioning rod and holes - pg 9

- **Standard Tensioning Clamp**
  - Type A-2 with tensioning rod and slotted holes - pg 10

- **Interchangeable Tensioner Clamp**
  - Type B-1 with tensioning rod and slotted holes - pg 12

- **High Load Tensioning Clamp**
  - Type C with tensioning rod and slotted holes - pg 12
Clamps

A-1 Clamp Assembly

Clamp Assembly Type A-1

Part description:
B x L (belt pitch) Type A-1 clamp assembly

Note:
- Standard material is AL 6061
- H = Overall thickness including belt

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Clamps
A-2 Clamp Assembly

Tensioning Clamp Type A-2

Tension part description:
B x L (belt pitch) Type A-2 tension clamp

Note:
- Standard material is AL 6061 with zinc-plated hardware
- H = Overall thickness including belt
- Specify running direction for BAT and BATK pitches per pg 14

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</table>
Tensioning Clamp Type A-3

Tensioner part description:
B x L (belt pitch) Type A-3 tension clamp

Note:
- Standard material is AL 6061 with zinc-plated hardware
- H = Overall thickness including belt
- Specify running direction for BAT and BATK pitches per pg 14

<table>
<thead>
<tr>
<th>Belt Pitch</th>
<th>Belt Width b(mm)</th>
<th>Part Description</th>
<th>B(mm)</th>
<th>L(mm)</th>
<th>M(mm)</th>
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## Tensioning Clamp Type B-1

**Tensioner part description:**
B x L (belt pitch) Type B-1 tension clamp

**Note:**
- Standard material is AL 6061 with zinc-plated hardware
- H = Overall thickness including belt

<table>
<thead>
<tr>
<th>Belt Pitch</th>
<th>Belt Width b(mm)</th>
<th>Part Description</th>
<th>B(mm)</th>
<th>L(mm)</th>
<th>M(mm)</th>
<th>m(mm)</th>
<th>h(mm)</th>
<th>H(mm)</th>
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## Tensioning Clamp Type C

**Tensioner part description:**
B x L (belt pitch) Type C tension clamp

**Note:**
- Standard material is uncoated steel with zinc-plated hardware
- Steel coatings optional
- H = Overall thickness including belt

<table>
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<tr>
<th>Belt Pitch</th>
<th>Belt Width b(mm)</th>
<th>Part Description</th>
<th>B(mm)</th>
<th>L(mm)</th>
<th>M(mm)</th>
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</table>
Tensioning Clamp Type B-2

Tensioner part description:
B x L (belt pitch) Type B-2 tension clamp

Note:
- Standard material is AL 6061 tooth plate, uncoated steel top plate and zinc-plated hardware
- H = Overall thickness including belt
- Specify running direction for BAT and BATK pitches per pg 14

<table>
<thead>
<tr>
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<th>Belt Width B (mm)</th>
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<th>m (mm)</th>
<th>a (mm)</th>
<th>c (mm)</th>
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<td>35</td>
<td>24.38</td>
<td>42</td>
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</tbody>
</table>
Custom clamps machined to print are available in various materials and surface finishes. Custom clamps modified from stock AL 6061, extruded clamps are available in as little as 8 days. Submit drawings or technical specifications to Applications Engineering for quotations.

**Tensioning Clamp Installation Notes**

Plate at least 5 belt teeth into the clamp to achieve maximum strength. Bolt the clamp plates together sandwiching the belt. Refer to tensioner diagram for recommended initial tightening torque for the countersunk screws. Place the threaded tensioning rod through a hole on a mounted fixture. By tightening a nut on the threaded rod the tensioning clamp will pull the belt and apply tension. Refer to catalog B207 pg. 5 or the online calculator for recommended pretension. After applying the proper tension, install and tighten the 4 mounting bolts in their slotted adjustment holes to keep the clamp in position. Refer to tensioner diagram for recommended tightening torque for the cap screws and final torque for any countersunk screws. By doing this, the pressure will be relieved on the threaded rod. Properly mounted tensioning clamps transfer all of the forces onto the mounted bolts and do not rely on the threaded rod.

**BAT and BATK Orientation**

Running direction must be specified for BAT and BATK pitches as follows:
All timing belt drives require some form of tension adjustment. Tensioner idlers are a common way to provide this adjustment while maintaining fixed centers for the remaining pulleys. Placement of the tensioner may be on the belt back or tooth side provided that minimum recommended diameters are observed. Tensioner idlers may also be used to route the belt in a drive or increase wrap on a small pulley for higher power transmission capability.

**Application Examples for tensioner idlers:**

**Back Bending Idler** - Also known as Contra-flexure. Typically used to increase belt wrap on the drive pulley. Refer to appendix for minimum recommended pulley and idler sizes. Diameter recommendations differ for forward and back bending.

**Tooth Sided Idler** - Used for tensioning adjustment or routing belt. Idler may be flat or toothed type.

Standard material is a steel shaft and bearings with aluminum housing and flanges. Custom tensioner idlers or materials are available as modified items for small quantities and custom items for large quantities. Permanently greased bearings are used with max continuous temperature of 160°F and intermittent 240°F.
### Eccentric Adjustment Tensioners

**Compact integrated tensioning design**

Type B/E0 Eccentric without flanges

Part description:
- B/E0 B/D-0 Tensioner
- B = Face width
- D = Outside diameter

![Type B/E0 Eccentric without flanges](image)

Type B/E2 Eccentric with flanges

Part description:
- B/E2 B/D-2 Tensioner
- B = Face width
- D = Outside diameter

![Type B/E2 Eccentric with flanges](image)

### Eccentric Adjustment Tensioner - Dimensions

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<tr>
<th>B (mm)</th>
<th>D (mm)</th>
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<th>B_2 (mm)</th>
<th>E (mm)</th>
<th>G</th>
<th>t (mm)</th>
<th>D_1 (mm)</th>
<th>SW (mm)</th>
<th>Allowable Loading</th>
<th>Max RPM</th>
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**Tensioner Idlers**

**3-Bolt Fixed Mount Tensioners**

*MAY BE MOUNTED IN SLOTS OR ON AN ARM FOR ADJUSTMENT*

Type B/E0 Fixed mount without flanges

![Type B/E0 Fixed mount without flanges](image1)

Part description:
- B/F0 B/D-0 Tensioner
- B = Face width
- D = Outside diameter

Type B/F2 Fixed mount with flanges

![Type B/F2 Fixed mount with flanges](image2)

Part description:
- B/F2 B/D-2 Tensioner
- B = Face width
- D = Outside diameter

**Fixed Mount Tensioner - Dimensions**

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Tensioner Idlers

Toothed Eccentric Tensioners

For the smoothest running on the inside of the belt

Type B/E0 Eccentric mount without flanges

Part description:
- B/E0 AL B Pitch/Z-0 Tensioner
  - B = Face width
  - Z = Number of teeth specify
  left or right rotation for BAT/BATK pitches

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