Synchro-Cog® Timing Belt
Synchronous Drive Belt

- Trapezoidal tooth profile
- Perfect synchronization between driver and driven units
- Low maintenance
- Long life
- Clean and quiet

Applications:
- Machine tools
- Sewing machines
- Packaging equipment
- Vending machines
- Food processing equipment
- & More

1. **Tensile Cord**
   - Specially treated to provide strength, added flex life and resistance to stretching.

2. **Molded Teeth**
   - Shear resistant. Designed to assure smooth, positive meshing with the sprocket.

3. **Tooth Fabric**
   - Provides maximum flexibility and wear resistance for extended belt life.

Recommended Pulleys:
Timing Pulleys – MPB, QD, Taper Bushed (XL, L, H, XH)
The Synchro-Cog® Timing Belt has a trapezoidal tooth profile for applications where synchronization between the driving and driven units is required.

The first synchronous belts had a trapezoidal tooth profile and are often called timing belts. Synchro-Cog® timing belts are an excellent choice for energy efficient, low maintenance performance on positive drive applications.

Synchro-Cog provides a wide range of load capacities and speeds. Belts are oil, heat, and abrasion resistant. No lubrication is required so you can enjoy clean, maintenance free performance.

Synchro-Cog is ideal for use in positioning applications or on inaccessible drives where maintenance is difficult. Synchro-Cog eliminates lubrication and re-tensioning, and provides a long service life.

| Synchro-Cog trapezoidal timing belts are available in the following pitches: |
|-----------------|-----------------|-----------------|
| XL              | Extra Light     | (0.200” pitch) |
| L               | Light           | (0.375” pitch) |
| H               | Heavy           | (0.500” pitch) |
| XH              | Extra Heavy     | (0.875” pitch) |
| XXH             | Double Extra Heavy | (1.250” pitch) |
## Synchro-Cog® Timing Belt

### Part Numbers

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<tr>
<th>Part Number</th>
<th>Number of Teeth</th>
<th>Pitch Length (in)</th>
<th>Weight (lbs)</th>
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### Part Number Example:

**210XL037 =**

- **210**
- **XL**
- **037**

- **Pitch Length** (inches in tenths: 21.0”)
- **Tooth Pitch** (inches)
- **Width** (inches in tenths: 0.37”)
# Synchro-Cog® Timing Belt

## Synchronous Drive Belt

### Synchro-Cog® Timing Belt Part Numbers

**XL (1/5”) Pitch – Recommended Pulleys: Timing Pulleys – MPB, QD, Taper Bushed (XL)**

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**XL (1/5”) Pitch – Recommended Pulleys: Timing Pulleys – MPB, QD, Taper Bushed (XL)**

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## Synchronous Belts

### Synchronous Drive Belt

**Part Number Example:** $300H100 = 300 \text{H} \text{100}$

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### Synchronous Belts

**Synchro-Cog® Timing Belt**

**Synchronous Drive Belt**

Part Number Example: 645H300 = 645 | H | 300

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Timing Pulleys – MPB, QD, Taper Bushed (H)

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**H (1/2") Pitch – Recommended Pulleys:**
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## Synchro-Cog® Timing Belt
### Synchronous Drive Belt

### Synchro-Cog® Timing Belt Part Numbers

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**Synchro-Cog® Timing Belt**  
Synchronous Drive Belt

**Part Number Example:** `630XH200`  
- **Pitch Length**: 63.0 (inches in tenths: 63.0")  
- **Tooth Pitch**: 2.00 (inches)  
- **Width**: 200 (inches in tenths: 2.00")

### XH (7/8") Pitch – Recommended Pulleys: Timing Pulleys – MPB, QD, Taper Bushed (XH)

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## Synchro-Cog® Timing Belt Sleeves

- Full factory width sleeves
- All sleeves will have the edges trimmed before shipment
- Cut sleeves cannot be accepted for return
- All weights are approximate

Timken maintains inventory of most Carlisle® sleeve sizes. Non-stock sizes will be indicated by an asterisk following the part number. Contact customer service for availability. Minimum order quantity and/or extended lead times may apply.

Occasional production inconsistencies which may render a portion of the sleeve unusable can be present as a normal part of the production process.

Each sleeve is inspected to ensure that it contains 90% or more usable product. A full width sleeve with less than 10% unusable product is considered acceptable.

### Synchro-Cog® Timing Belt Sleeve Part Numbers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Sleeve Width (in)</th>
<th>Weight (lbs)</th>
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</thead>
<tbody>
<tr>
<td><strong>XL (1/5”) Pitch – Recommended Pulleys:</strong> Timing Pulleys – MPB, QD, Taper Bushed (XL)</td>
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# Synchro-Cog® Timing Belt

## Sleeves

**Part Number Example:** 200XL1600SL = 200 XL 1600 SL

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<td>L (3/8&quot;) Pitch – Recommended Pulleys: Timing Pulleys – MPB, QD, Taper Bushed (L)</td>
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