**Synchronous Belts**

At Gates, maximum belt life is achieved in a variety of industries. Synchronous belts are identified by:

1. Notch: Triangular molded notch provides positive and silent transmission.
2. Pitch Length: Total length measured in inches on an unstrained belt. Like the pitch diameter of a pulley, it is equal to the distance from the inside surface of a cross-section joined belt to the transmitted side of the next notch.
3. Weights: Shows the type of belt used and the pitch length of the new designation. Synchronous belts are designated as follows:

**Powerband Belts**

Made by joining two or more single V-belts with a permanent, high strength tie-band. PowerBand belts prevent slippage and ensure constant drive ratio. The following values from the O.C.:

- Subtract 2" (3" above 210", 1.0")
- Subtract 3" (4" above 210", 2.0")
- Subtract 4" (5" above 210", 3.0")
- Subtract 7" (6" above 210", 4.0")

Example:

<table>
<thead>
<tr>
<th>Pitch Length</th>
<th>O.C.</th>
<th>L</th>
<th>Cross Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>640</td>
<td>38.8</td>
<td>12</td>
<td>4/40</td>
</tr>
<tr>
<td>660</td>
<td>40.5</td>
<td>14</td>
<td>5/40</td>
</tr>
<tr>
<td>680</td>
<td>42.2</td>
<td>16</td>
<td>6/40</td>
</tr>
<tr>
<td>700</td>
<td>43.9</td>
<td>18</td>
<td>7/40</td>
</tr>
<tr>
<td>720</td>
<td>45.6</td>
<td>20</td>
<td>8/40</td>
</tr>
<tr>
<td>740</td>
<td>47.3</td>
<td>22</td>
<td>9/40</td>
</tr>
<tr>
<td>760</td>
<td>49.0</td>
<td>24</td>
<td>10/40</td>
</tr>
<tr>
<td>780</td>
<td>50.7</td>
<td>26</td>
<td>11/40</td>
</tr>
<tr>
<td>800</td>
<td>52.4</td>
<td>28</td>
<td>12/40</td>
</tr>
<tr>
<td>820</td>
<td>54.1</td>
<td>30</td>
<td>13/40</td>
</tr>
<tr>
<td>840</td>
<td>55.8</td>
<td>32</td>
<td>14/40</td>
</tr>
<tr>
<td>860</td>
<td>57.5</td>
<td>34</td>
<td>15/40</td>
</tr>
</tbody>
</table>

**PowerGrip® GT-3 Belts**

Made by joining two or more single V-belts with a permanent, high strength tie-band. PowerGrip GT-3 Belts are identified as follows:

- First two digits indicate belt top width.
- Last two digits indicate length in inches.
- Example: 5/8" top width 5VX belt with 80" O.C. equals 5VX800 V-belt. X designates single V-belt.

**PowerGrip® HD® Belts**

Made by joining two or more single V-belts with a permanent, high strength tie-band. PowerGrip HD Belts are identified as follows:

- First two digits indicate belt top width.
- Last two digits indicate length in inches.
- Example: 5/8" top width 5VX belt with 80" O.C. equals 5VX800 V-belt. X designates single V-belt.

**PowerGrip® Twin Power® Belts**

Made by joining two or more single V-belts with a permanent, high strength tie-band. PowerGrip Twin Power Belts are identified as follows:

- First two digits indicate belt top width.
- Last two digits indicate length in inches.
- Example: 5/8" top width 5VX belt with 80" O.C. equals 5VX800 V-belt. X designates single V-belt.

**PowerGrip® GT2™ Belts**

Made by joining two or more single V-belts with a permanent, high strength tie-band. PowerGrip GT2 Belts are identified as follows:

- First two digits indicate belt top width.
- Last two digits indicate length in inches.
- Example: 5/8" top width 5VX belt with 80" O.C. equals 5VX800 V-belt. X designates single V-belt.

**PowerGrip® GT2™ Belts**

Made by joining two or more single V-belts with a permanent, high strength tie-band. PowerGrip GT2 Belts are identified as follows:

- First two digits indicate belt top width.
- Last two digits indicate length in inches.
- Example: 5/8" top width 5VX belt with 80" O.C. equals 5VX800 V-belt. X designates single V-belt.

**PowerGrip GT™ Belts**

Made by joining two or more single V-belts with a permanent, high strength tie-band. PowerGrip GT Belts are identified as follows:

- First two digits indicate belt top width.
- Last two digits indicate length in inches.
- Example: 5/8" top width 5VX belt with 80" O.C. equals 5VX800 V-belt. X designates single V-belt.

**PowerGrip® GT™ Belts**

Made by joining two or more single V-belts with a permanent, high strength tie-band. PowerGrip GT Belts are identified as follows:

- First two digits indicate belt top width.
- Last two digits indicate length in inches.
- Example: 5/8" top width 5VX belt with 80" O.C. equals 5VX800 V-belt. X designates single V-belt.

**PowerGrip® CT™ Belts**

Made by joining two or more single V-belts with a permanent, high strength tie-band. PowerGrip CT Belts are identified as follows:

- First two digits indicate belt top width.
- Last two digits indicate length in inches.
- Example: 5/8" top width 5VX belt with 80" O.C. equals 5VX800 V-belt. X designates single V-belt.

**PowerGrip® CT™ Belts**

Made by joining two or more single V-belts with a permanent, high strength tie-band. PowerGrip CT Belts are identified as follows:

- First two digits indicate belt top width.
- Last two digits indicate length in inches.
- Example: 5/8" top width 5VX belt with 80" O.C. equals 5VX800 V-belt. X designates single V-belt.

**PowerGrip® CT™ Belts**

Made by joining two or more single V-belts with a permanent, high strength tie-band. PowerGrip CT Belts are identified as follows:

- First two digits indicate belt top width.
- Last two digits indicate length in inches.
- Example: 5/8" top width 5VX belt with 80" O.C. equals 5VX800 V-belt. X designates single V-belt.

**PowerGrip® CT™ Belts**

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- Example: 5/8" top width 5VX belt with 80" O.C. equals 5VX800 V-belt. X designates single V-belt.