**PM635KE/KT DC Motor Driven Roller**

**PM635KE (10 AMP); PM635KT (7 AMP)**

**Diameter:** 2.50” (63.5mm)  
**Voltage:** 24V DC

**Standard Features**
- Brushless DC motor provides long life
- 11/16” Hex (threaded) shafts standard
- ABEC 1 Bearings
- DOM, carbon steel tube
- Heavy duty pallet handling
- Low profile requirement of pallet handling
- 1000mm (39.37”) power cable standard
- One shaft mounting, cable side

Available as spring loaded shaft  
* Double sprocket end cap available in non spring loaded shaft only

**Operation**
- Cycle: 1s ON; 1s OFF  
- Continuous or intermittent duty  
- Do not exceed 150% of no-load speed

**Protection**
- Thermal overload 221°F (105°C) in the motor when used with an Itoh Denki controller

**Environment**
- Ambient temperature 32~104°F (0~40°C)  
- < 90% relative humidity (no condensation)  
- No corrosive gases  
- Vibration < 0.5G

**Available Options**

*Thrust collar nuts are to be tightened to 110.6 lb • ft ± 10%*

1 mounting bracket needed for this roller  
See page 52 for bracket diagrams

**Standard Threaded Hex Shaft Mounting Brackets**
- P-0E1 (Hex point up)  
- P-0D1 (Hex flat up)  

If needed, call out welded sprockets when ordering: 40A21, 50A17, or 60A15.
PM635KE: cable has 2 connectors for use with the CBM-103FN driver card

### CBM-103FN 10 speed settings

<table>
<thead>
<tr>
<th>Gear Stage</th>
<th>No-load (FPM)</th>
<th>SW2 9 High</th>
<th>SW2 0 Low</th>
<th>Tangential force (lb)</th>
<th>Torque (lb-in)</th>
<th>Starting</th>
<th>Starting</th>
<th>Starting</th>
<th>At highest speed</th>
<th>No-Load</th>
<th>Rated</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>16</td>
<td>52.5</td>
<td>6.6</td>
<td>228.6</td>
<td>285.9</td>
<td>10.0</td>
<td>0.7</td>
<td>2.8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>60</td>
<td>199.5</td>
<td>24.9</td>
<td>63.3</td>
<td>78.8</td>
<td>10.0</td>
<td>0.8</td>
<td>2.8</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>230</td>
<td>757.9</td>
<td>94.8</td>
<td>17.5</td>
<td>22.1</td>
<td>10.0</td>
<td>0.9</td>
<td>2.8</td>
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PM635KT: 12 pin motor connector for use with the CB-030S or IB-E04 driver card

### CB-030S 20 speed settings

<table>
<thead>
<tr>
<th>Gear Stage</th>
<th>No-load (FPM)</th>
<th>SW2 9 High</th>
<th>SW2 0 Low</th>
<th>Tangential force (lb)</th>
<th>Torque (lb-in)</th>
<th>Starting</th>
<th>Starting</th>
<th>Starting</th>
<th>At highest speed</th>
<th>No-Load</th>
<th>Rated</th>
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<tbody>
<tr>
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<td>59.4</td>
<td>7.5</td>
<td>181.6</td>
<td>227.4</td>
<td>7.0</td>
<td>0.7</td>
<td>2.9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>60</td>
<td>225.1</td>
<td>28.2</td>
<td>50.3</td>
<td>62.8</td>
<td>7.0</td>
<td>0.8</td>
<td>2.9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>230</td>
<td>855.3</td>
<td>107.3</td>
<td>13.9</td>
<td>17.7</td>
<td>7.0</td>
<td>0.9</td>
<td>2.9</td>
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</table>

PM635KT with 12 pin motor connector

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Minimum Tube Lengths

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<thead>
<tr>
<th>GEAR STAGES</th>
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<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>360mm</td>
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<tr>
<td>(14.17&quot;)</td>
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<tr>
<td>325mm</td>
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<tr>
<td>(12.80&quot;)</td>
</tr>
</tbody>
</table>

TL Considerations for non-standard EC

- SW: BF - 63mm = TL
- VG: BF - 66mm = TL
- OS: BF - 20mm = TL
- Contact an Itoh Denki representative to review your specific application