2.5" ROLLER DRIVE

The all new 2.5" RollerDrive represents a revolution for CDLR pallet handling low profile conveyor. With the strong oversized design and its energy conservative BLDC motor, it instantly reduces operational costs significantly.

This is a heavy-duty, high-efficiency and green product.

Features
- Full ZPA solution for pallet handling
- Quick and easy installation
- Heavy duty oversized design
- Low DC current – cost savings at installation and green in operation
- Easy to use controls – no complex programming
- Easy maintenance and replacement
- Low noise
- Compact design

Technical Data:
- Nominal Voltage: 24VDC
- Voltage Range: 22 to 28 VDC
- No Load Current: .6 Amps
- Maximum Continuous Current: 2.5 Amps
- Maximum Peak Current: 5.1 Amps
- Maximum Foldback Current: 2.5 Amps
- Noise Emission (Mounted): Less than 65 dB(A)
- Lifetime under nominal conditions: 15000 Hours
- Maximum Start/Stop per minute: 15
- Protection Classification: IP54
- Ambient Temperature for Operation: 32 to 104°F
- Maximum Load – 1 RollerDrive, 15 Idlers

<table>
<thead>
<tr>
<th>Gear Ratio</th>
<th>Nominal Torque (in-lbs)</th>
<th>Peak Torque (in-lbs)</th>
<th>Speed (fpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:1 EC110</td>
<td>8.8</td>
<td>31.0</td>
<td>207-69</td>
</tr>
<tr>
<td>16:1 EC110</td>
<td>13.0</td>
<td>37.0</td>
<td>154-51</td>
</tr>
<tr>
<td>24:1 EC110</td>
<td>19.5</td>
<td>51.0</td>
<td>103-34</td>
</tr>
<tr>
<td>36:1 EC110</td>
<td>26.5</td>
<td>81.0</td>
<td>60-23</td>
</tr>
<tr>
<td>48:1 EC110</td>
<td>30.0</td>
<td>102.0</td>
<td>51-17</td>
</tr>
<tr>
<td>36:1 EC120</td>
<td>31.0</td>
<td>114.0</td>
<td>52-17</td>
</tr>
<tr>
<td>48:1 EC120</td>
<td>48.0</td>
<td>149.0</td>
<td>39-13</td>
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<tr>
<td>64:1 EC120</td>
<td>63.0</td>
<td>180.0</td>
<td>29-10</td>
</tr>
<tr>
<td>96:1 EC120</td>
<td>89.0</td>
<td>265.0</td>
<td>20-7</td>
</tr>
</tbody>
</table>

Max RL (in)  Min RL (in)
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60            14

Maximum Idlers per Zone
15

Finish: Mill or Zinc Plated
Material: Carbon Steel

Sprockets can be located on motor – or idler end at same dimensions.
PART NUMBER
CONFIGURATOR FOR
ROLLERDRIVE 2.5"

Tube Group
G60  Straight, Carbon Steel, Galvanized Tube
C20  Carbon Steel, Mill Finish, 2-40A21 Sprockets, Motor End
C21  Carbon Steel, Mill Finish, 2-40A21 Sprockets, Idler End
C22  Carbon Steel, Mill Finish, 2-50A18 Sprockets, Motor End
C23  Carbon Steel, Mill Finish, 2-50A18 Sprockets, Idler End
C24  Carbon Steel, Mill Finish, 2-60A15 Sprockets, Motor End
C25  Carbon Steel, Mill Finish, 2-60A15 Sprockets, Idler End
L20  Carbon Steel, Zinc Plated, 2-40A21 Sprockets, Motor End
L21  Carbon Steel, Zinc Plated, 2-40A21 Sprockets, Idler End
L22  Carbon Steel, Zinc Plated, 2-50A18 Sprockets, Motor End
L23  Carbon Steel, Zinc Plated, 2-50A18 Sprockets, Idler End
L24  Carbon Steel, Zinc Plated, 2-60A15 Sprockets, Motor End
L25  Carbon Steel, Zinc Plated, 2-60A15 Sprockets, Idler End

Motor Type: G = EC120  F = EC110
Lead Type: 1 = Standard
Gearbox:
1 = 12:1 Ratio
2 = 16:1 Ratio
3 = 24:1 Ratio
4 = 36:1 Ratio
5 = 48:1 Ratio
6 = 64:1 Ratio
7 = 96:1 Ratio

Bearing/Shaft
Motor End:
Dual Precision Bearings,
1/16 Hex
Threaded 3/4-16 Idler End,
Dual precision Bearings,
1/16 Spring Loaded
Solid Hex

H C - E C 110/120

There is no easier or more cost effective way to build up a zero pressure accumulation (ZPA) conveyor for pallet handling. The Hybrid Control card can either be used as a DriveControl or as a ZPA controller. There is no need for any PLC programming, just plug and play.

CONTROLLER TECHNICAL DATA

Electrical Data
• Rated voltage 24 V DC
• Voltage range 18 to 28 V DC
• Permissible voltage undulation < 5 %, recommended: < 1 %
• Max. continuous current 2.5 Amps
• Max. start-up current 5.1 Amps
• Fuse 5 Amps, slow-blow
• Protection rate IP20

Ambient conditions
• Ambient temperature in operation 32 to 104°F
• Max. temperature change 1 % in 3 h; 2 cycles in compliance with IEC 68-2-14
• Max. humidity 90 %, non-condensing