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  - Servo Positioner
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- **LPP Series**
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  - Rotary Part Handlers
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Dimensions and technical information are subject to change without notice.
**Features:**

**Camco Parallel Index Drives** are ideal for high-speed applications or for actuation-type applications such as driving a linkage or a conveyor.

- Hardened and ground conjugate cams
- Yoke-mounted, preloaded cam followers are non-reversing for high capacity and speed capability
- Whole or fractional stops, oscillating and complex custom motions are available
- Long transfer distances achieved with simple linkages
- Preloaded, tapered roller bearings for rigidity and backlash-free operation

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<td>9</td>
</tr>
<tr>
<td>662P</td>
<td>11</td>
</tr>
</tbody>
</table>

Dimensions and technical information are subject to change without notice
**Indexer Ordering Procedure**
1. Input Assembly: Right, Left or Double (DE)
2. Output Assembly: Right, Left or Double (DE).
   - Flanged output is primary output. For Double Output, specify whether flanged output is on right or left side.

NOTE: Input may rotate in either direction to achieve desired direction of output rotation.

---

**Reducer Ordering Procedure**
1. Model
2. Ratio: 5:1, 10:1, 15:1, 20:1, 25:1, 30:1, 40:1, 50:1, 60:1
3. Motor Adapter
4. Reducer Input Shaft Extension: Single Input (SE) or Double Input (DE)
5. Mounting (see diagram below)
Gear Reducer Mounting Positions (Figure 4)

<table>
<thead>
<tr>
<th>Mounting “A”</th>
<th>Mounting “B”</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RH</strong></td>
<td><strong>LH</strong></td>
</tr>
<tr>
<td><strong>SIDE R</strong></td>
<td></td>
</tr>
<tr>
<td><img src="image1" alt="Diagram A" /></td>
<td><img src="image2" alt="Diagram B" /></td>
</tr>
<tr>
<td><strong>SIDE L</strong></td>
<td></td>
</tr>
<tr>
<td><img src="image5" alt="Diagram E" /></td>
<td><img src="image6" alt="Diagram F" /></td>
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<table>
<thead>
<tr>
<th>Mounting “C”</th>
<th>Mounting “D”</th>
</tr>
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<tbody>
<tr>
<td><strong>RH</strong></td>
<td><strong>LH</strong></td>
</tr>
<tr>
<td><strong>SIDE R</strong></td>
<td></td>
</tr>
<tr>
<td><img src="image9" alt="Diagram J" /></td>
<td><img src="image10" alt="Diagram K" /></td>
</tr>
<tr>
<td><strong>SIDE L</strong></td>
<td></td>
</tr>
<tr>
<td><img src="image13" alt="Diagram N" /></td>
<td><img src="image14" alt="Diagram P" /></td>
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Dimensions and technical information are subject to change without notice.
250P Indexer Capacities

<table>
<thead>
<tr>
<th>Stops</th>
<th>Index Period</th>
<th>Motion</th>
<th>B. Capacity at 50 RPM N-m [in-lb]</th>
<th>Internal Inertia kg-cm² [lb-in²]</th>
<th>Model</th>
<th>“A” Center mm [in]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>300</td>
<td>ms.50</td>
<td>50 [444]</td>
<td>8.8 [3]</td>
<td>250P1H20-300</td>
<td>82.6 [3.25]</td>
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<tr>
<td>1.5</td>
<td>270</td>
<td>ms.33</td>
<td>54 [481]</td>
<td>5.9 [2]</td>
<td>250P1.5H20-270</td>
<td>82.6 [3.25]</td>
</tr>
<tr>
<td>2</td>
<td>270</td>
<td>ms</td>
<td>49 [433]</td>
<td>8.8 [3]</td>
<td>250P2H20-270</td>
<td>82.6 [3.25]</td>
</tr>
<tr>
<td>3</td>
<td>270</td>
<td>ms</td>
<td>66 [582]</td>
<td>5.9 [2]</td>
<td>250P3H20-270</td>
<td>69.9 [2.75]</td>
</tr>
<tr>
<td></td>
<td>120</td>
<td>ms</td>
<td>74 [653]</td>
<td>5.9 [2]</td>
<td>250P3H20-120</td>
<td>82.6 [3.25]</td>
</tr>
<tr>
<td>4</td>
<td>270</td>
<td>ms</td>
<td>65 [571]</td>
<td>8.8 [3]</td>
<td>250P4H20-270</td>
<td>69.9 [2.75]</td>
</tr>
<tr>
<td>6</td>
<td>270</td>
<td>ms</td>
<td>100 [888]</td>
<td>5.9 [2]</td>
<td>250P6H20-270 II</td>
<td>69.9 [2.75]</td>
</tr>
<tr>
<td></td>
<td>180</td>
<td>ms.33</td>
<td>235 [2078]</td>
<td>8.8 [3]</td>
<td>250P6H24-180 II</td>
<td>69.9 [2.75]</td>
</tr>
<tr>
<td>8</td>
<td>270</td>
<td>ms</td>
<td>95 [843]</td>
<td>8.8 [3]</td>
<td>250P8H20-270 II</td>
<td>69.9 [2.75]</td>
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<tr>
<td></td>
<td>120</td>
<td>ms</td>
<td>112 [993]</td>
<td>8.8 [3]</td>
<td>250P8H20-120 II</td>
<td>82.6 [3.25]</td>
</tr>
</tbody>
</table>

Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.

Features
- Single Input Shaft and Single Output Shaft
- Output horizontal even with input Mounting
- R180 Reducer (ratios from 15:1 to 60:1)
  - Double Extended Worm (input) Shaft
  - Worm Shaft Handwheel
- 1/3 or 1 HP AC Drive Package with Inverter Duty Motor and Inverter Drive (up to 60 cpm)
- Single Cycle Cam and Limit Switch

Optional Accessories
- 1/3 hp DC motor
- Varipak DC Motor Control (up to 30 cpm)
- R225 Reducer (ratios from 10:1 to 60:1)
  - 1 hp AC or DC drive package
  - 56C Motor Adapter and Coupling
  - Available Settings (in-lb): 160, 210, 270, 320, 390
- Dual Cycle Cam and Limit Switch
- Oscillating motion
- Double Input Shaft
- Double Output Shaft
- Output and Input Vertical Mounting

Output Load Capacity (loads carried during index):
- Radial: 1406 N [316 lbs]
- Thrust/Axial: 1397 N [314 lbs]
- Moment: 45 N-m [395 in-lb]

Accuracy
- ±77 arcsec / ±0.028 mm [±.0011 in] at 76.2 mm [3 in] Radius

Repeatability
- ±19 arcsec / ±0.008 mm [±.0003 in] at 76.2 mm [3 in] Radius
### Features
- Single Input Shaft and Single Output Shaft
- Output horizontal even with input Mounting
- R225 Reducer (ratios from 10:1 to 60:1)
  - 56C Motor Adapter and Coupling
- 1 HP AC Drive Package with Inverter Duty Motor and Inverter Drive (up to 60 cpm)
- Single Cycle Cam and Limit Switch

### Optional Accessories
- 1 hp DC motor
- Varipak DC Motor Control (up to 30 cpm)
- R260 Reducer (ratios from 5:1 to 60:1)
  - 1 hp AC or DC drive package
  - 56C Motor Adapter and Coupling
- Output Overload Clutch Models: 2.3F, 2.3FC, 2.3S and 2.3C, 2.3C-SD, 2.3FC-SD, 2.35-SD
  - Available Settings (in-lb): 400, 600, 700, 850, 1000, 1300, 1800, 2000, 2300
- Dual Cycle Cam and Limit Switch
- Oscillating motion
- Double Input Shaft
- Double Output Shaft
- Output and Input Vertical Mounting

### Output Load Capacity (loads carried during index):
- **Radial**: 3981 N [895 lbs]
- **Thrust/Axial**: 2567 N [577 lbs]
- **Moment**: 183 N-m [1620 in-lb]

### Accuracy
- ±50 arcsec / ±0.018 mm [±.0007 in] at 76.2 mm [3 in] Radius

### Repeatability
- ±12 arcsec / ±0.005 mm [±.0002 in] at 76.2 mm [3 in] Radius

### Technical Information

<table>
<thead>
<tr>
<th>Stops</th>
<th>Index Period</th>
<th>Motion</th>
<th>B. Capacity at 50 RPM N-m [in-lb]</th>
<th>Internal Inertia kg-cm² [lb-in²]</th>
<th>Model</th>
<th>“A” Center mm [in]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>msc.66</td>
<td>156 [1385]</td>
<td>41.0 [14]</td>
<td>387P1H28-300</td>
<td>122,22 [4.812]</td>
</tr>
<tr>
<td>1.5</td>
<td>300</td>
<td>ms</td>
<td>124 [1099]</td>
<td>38.0 [13]</td>
<td>387P1.5H28-300</td>
<td>122,22 [4.812]</td>
</tr>
<tr>
<td>4</td>
<td>120</td>
<td>msc.33</td>
<td>234 [2067]</td>
<td>41.0 [14]</td>
<td>387P3H28-120</td>
<td>122,22 [4.812]</td>
</tr>
<tr>
<td>4</td>
<td>90</td>
<td>msc.33</td>
<td>250 [2214]</td>
<td>41.0 [14]</td>
<td>387P4H28-90</td>
<td>122,22 [4.812]</td>
</tr>
<tr>
<td>6</td>
<td>270</td>
<td>ms</td>
<td>269 [2378]</td>
<td>41.0 [14]</td>
<td>387P8H28-270</td>
<td>101,60 [4.000]</td>
</tr>
</tbody>
</table>

Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.
71a Features

- Single Input Shaft and Single Output Shaft
- Output horizontal even with input Mounting
- R225 Reducer (ratios from 10:1 to 60:1)
  - 56C Motor Adapter and Coupling
- 1 HP AC Drive Package with Inverter Duty Motor and Inverter Drive (up to 60 cpm)
- Single Cycle Cam and Limit Switch

71b Optional Accessories

- 1 hp DC motor
- Varipak DC Motor Control (up to 30 cpm)
- R260 Reducer (ratios from 5:1 to 60:1)
  - 1 hp AC or DC drive package
  - 56C Motor Adapter and Coupling
- Output Overload Clutch Models: 6.0F, 6.0FC, 6.0S and 6.0C, 6.0C-SD, 6.0FC-SD, 6.0S-SD
  - Available Settings (in-lb): 670, 825, 1100, 1400, 1700, 2000, 2300, 2500, 3000, 3800, 4000, 5000, 6000
- Dual Cycle Cam and Limit Switch
- Oscillating motion
- Double Input Shaft
- Double Output Shaft
- Output and Input Vertical Mounting

71c Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.

71d Output Load Capacity (loads carried during index):
- Radial: 12077 N [2715 lbs]
- Thrust/Axial: 6112 N [1374 lbs]
- Moment: 785 N-m [6951 in-lb]

71e Accuracy
- ±37 arcsec / ±0.013 mm [±.0005 in] at 76.2 mm [3 in] Radius

71f Repeatability
- ±9 arcsec / ±0.003 mm [±.0001 in] at 76.2 mm [3 in] Radius

71g 512P Indexer Capacities

<table>
<thead>
<tr>
<th>Stops</th>
<th>Index Period</th>
<th>Motion</th>
<th>B. Capacity at 50 RPM N-m [in-lb]</th>
<th>Internal Inertia kg-cm² [lb-in²]</th>
<th>Model</th>
<th>“A” Center mm [in]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>330</td>
<td>ms.75</td>
<td>728 [6441]</td>
<td>184.4 [63]</td>
<td>512P1H48-330</td>
<td>151,87 [5.979]</td>
</tr>
<tr>
<td>1.33</td>
<td>330</td>
<td>ms.33</td>
<td>557 [4928]</td>
<td>178.5 [61]</td>
<td>512P1.33H48-330</td>
<td>151,87 [5.979]</td>
</tr>
<tr>
<td>1.5</td>
<td>330</td>
<td>ms.33</td>
<td>549 [4860]</td>
<td>184.4 [63]</td>
<td>512P1.5H48-330</td>
<td>151,87 [5.979]</td>
</tr>
<tr>
<td></td>
<td>270</td>
<td>ms.33</td>
<td>494 [4373]</td>
<td>178.5 [61]</td>
<td>512P2H40-270</td>
<td>151,87 [5.979]</td>
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<tr>
<td>2</td>
<td>180</td>
<td>ms.50</td>
<td>612 [5416]</td>
<td>178.5 [61]</td>
<td>512P2H40-180</td>
<td>151,87 [5.979]</td>
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<tr>
<td></td>
<td>120</td>
<td>ms.50</td>
<td>467 [4131]</td>
<td>178.5 [61]</td>
<td>512P2H40-120</td>
<td>151,87 [5.979]</td>
</tr>
<tr>
<td>3</td>
<td>300</td>
<td>ms.33</td>
<td>804 [7116]</td>
<td>178.5 [61]</td>
<td>512P2.67H40-300</td>
<td>151,87 [5.979]</td>
</tr>
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<td>ms</td>
<td>617 [5462]</td>
<td>163.9 [56]</td>
<td>512P3H40-180</td>
<td>151,87 [5.979]</td>
</tr>
<tr>
<td>4</td>
<td>270</td>
<td>ms</td>
<td>635 [5619]</td>
<td>178.5 [61]</td>
<td>512P4H40-270</td>
<td>123,39 [4.858]</td>
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<td></td>
<td>120</td>
<td>ms</td>
<td>706 [6252]</td>
<td>178.5 [61]</td>
<td>512P4H40-120</td>
<td>151,87 [5.979]</td>
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<td>6</td>
<td>270</td>
<td>ms</td>
<td>939 [8315]</td>
<td>163.9 [56]</td>
<td>512P6H40-270</td>
<td>123,39 [4.858]</td>
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<td>ms</td>
<td>933 [8261]</td>
<td>163.9 [56]</td>
<td>512P6H40-180</td>
<td>151,87 [5.979]</td>
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<td>8</td>
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<td>ms</td>
<td>948 [8387]</td>
<td>178.5 [61]</td>
<td>512P8H40-270</td>
<td>123,39 [4.858]</td>
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<td>180</td>
<td>ms</td>
<td>892 [7894]</td>
<td>178.5 [61]</td>
<td>512P8H40-180</td>
<td>151,87 [5.979]</td>
</tr>
</tbody>
</table>

Dimensions and technical information are subject to change without notice.
### 662P Series
Parallel Shaft/Flange Drives | Dimensions

| Dimensions and technical information are subject to change without notice |

**INPUT**

- $[\varnothing 1.9375]$ $\varnothing 49.212$
- 12.7 [0.50] KWy.
- $[3.29] 83.6$

**OUTPUT**

- $[\varnothing 2.000]$ $\varnothing 50.80$
- $[\varnothing 4.250]$ $\varnothing 107.95$
- 12.7 [0.50] KWy.
- $[3.31] 84.1$

4X [0.625-11UNC] $[14.500] 368.3$

4X [0.375-24UNF X .75 ON $\varnothing 3.250$ B.C.] $[4.250] 107.95$

Dimensions and technical information are subject to change without notice.
Parallel Shaft/Flange Drives | Features | Optional Accessories | Technical Information

### Features
- Single Input Shaft and Single Output Shaft
- Output horizontal even with input Mounting
- R225 Reducer (ratios from 10:1 to 60:1) – 56C Motor Adapter and Coupling
- 1 HP AC Drive Package with Inverter Duty Motor and Inverter Drive (up to 60 cpm)
- Single Cycle Cam and Limit Switch

### Optional Accessories
- 7350C or 7400C Reducer (ratios from 5:1 to 60:1) with Motor Adapter and Coupling
- 1 hp DC Motor
- Output Overload Clutch Models: 11F, 11FC, 11FC-SD – Available Settings (in-lb): 2300, 4000, 6000, 8500, 11000
- Dual Cycle Cam and Limit Switch
- Electric Clutch-Brake
- Air Clutch-Brake
- Oscillating motion
- Double Input Shaft
- Double Output Shaft
- Output and Input Vertical Mounting

### Output Load Capacity (loads carried during index):
- **Radial**: 17415 N [3915 lbs]
- **Thrust/Axial**: 9083 N [2042 lbs]
- **Moment**: 1464 N-m [12959 in-lb]

### Accuracy
- ±36 arcsec / ±0.025 mm [±.001 in] at 76.2 mm [3 in] Radius
- ±9 arcsec / ±0.008 mm [±.0003 in] at 152.4 mm [6 in] Radius

### 662P Indexer Capacities

<table>
<thead>
<tr>
<th>Stops</th>
<th>Index Period</th>
<th>Motion</th>
<th>B. Capacity at 50 RPM N·m [in-lb]</th>
<th>Internal Inertia kg·cm² [lb·in²]</th>
<th>Model</th>
<th>“A” Center mm [in]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.33</td>
<td>330</td>
<td>msc.20</td>
<td>1171 [10368]</td>
<td>971,6 [332]</td>
<td>662P1.33H64-330</td>
<td>196,32 [7.729]</td>
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<tr>
<td>1.5</td>
<td>270</td>
<td>msc.33</td>
<td>1425 [12617]</td>
<td>895,5 [306]</td>
<td>662P1.5H64-270</td>
<td>196,32 [7.729]</td>
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<td>180</td>
<td>msc.50</td>
<td>1329 [11760]</td>
<td>597,0 [204]</td>
<td>662P2H56-180</td>
<td>196,32 [7.729]</td>
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<tr>
<td>3</td>
<td>270</td>
<td>ms</td>
<td>954 [8446]</td>
<td>485,8 [166]</td>
<td>662P3H48-270</td>
<td>168,35 [6.628]</td>
</tr>
<tr>
<td>6</td>
<td>270</td>
<td>ms</td>
<td>1463 [12946]</td>
<td>485,8 [166]</td>
<td>662P6H48-270 II</td>
<td>168,35 [6.628]</td>
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<tr>
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<td>180</td>
<td>ms</td>
<td>1453 [12863]</td>
<td>485,8 [166]</td>
<td>662P6H48-180 II</td>
<td>196,32 [7.729]</td>
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<td>120</td>
<td>msc.33</td>
<td>1783 [15780]</td>
<td>529,7 [181]</td>
<td>662P8H48-120</td>
<td>196,32 [7.729]</td>
</tr>
</tbody>
</table>

Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.