PARALLEL SHAFT/FLANGE DRIVES

Product Overview

You are currently viewing:

Parallel Shaft/Flange Drives

Additional Indexing Products:

- RNG Easy Access Dial Indexers .......... IN-RNG
- Rite-Link Conveyors ............ IN-RLC
- Table-Top Modular Conveyors ............. IN-TTC
- Heavy Duty Modular Conveyors ........... IN-HDC
- LPP Linear Part Handles ...... IN-LPP
- RPP Rotating Part Handlers .. IN-RPP
- Overload Clutches ............... IN-CLU
- Custom Cams ................... IN-CAM
- IN-PAR 1
- 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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<tr>
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<tr>
<td>662P</td>
<td>11</td>
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</tbody>
</table>
### 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)

### Position of Shafts (Top View)

- Double Extended (DE)
- R
- L
- Output
- Input
- Double Extended (DE)

**NOTE:** Flange available on either Left side or Right side.
### 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>RH</strong></td>
</tr>
<tr>
<td><strong>LH</strong></td>
<td><strong>LH</strong></td>
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</tbody>
</table>

#### Mounting Positions:

- **OHEI** (output horizontal, even with input)
- **OHEI** (output horizontal, even with input)
- **OHOI** (output horizontal, over input)
- **OHUI** (output horizontal, under input)
- **VD**  (output vertical down)
- **VU**  (output vertical up)

#### Mounting "A":

1. **SIDE R**
   - **A**

2. **SIDE L**
   - **E**

#### Mounting "B":

3. **SIDE R**
   - **B**
   - **C**

4. **SIDE L**
   - **F**
   - **G**

#### Mounting "C":

5. **SIDE R**
   - **J**
   - **K**

6. **SIDE L**
   - **N**
   - **P**

#### Mounting "D":

7. **SIDE R**
   - **L**
   - **M**

8. **SIDE L**
   - **R**
   - **S**

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&lt;sub&gt;10&lt;/sub&gt; Capacity at 50 RPM (in-lb)</th>
<th>Internal Inertia (lb-in²)</th>
<th>Model</th>
<th>“A” Center</th>
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<tr>
<td>1</td>
<td>300</td>
<td>ms.50</td>
<td>444</td>
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<td>ms</td>
<td>571</td>
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<td>993</td>
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Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.

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### 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

<table>
<thead>
<tr>
<th>Load Type</th>
<th>Capacity</th>
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<td>Radial</td>
<td>316 lbs</td>
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<tr>
<td>Thrust/Axial</td>
<td>314 lbs</td>
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<tr>
<td>Moment</td>
<td>395 in-lb</td>
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</table>

**Accuracy**

- ±77 arcsec / ±.0011” at 3” Radius

**Repeatability**

- ±19 arcsec / ±.0003” at 3” Radius
387P SERIES
Parallel Shaft/Flange Drives | Dimensions

Dimensions and technical information are subject to change without notice
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, 2.3S-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: 895 lbs
- Thrust/Axial: 577 lbs
- Moment: 1,620 in-lb

Accuracy: ±50 arcsec / ±.0007” at 3” Radius

Repeatability: ±12 arcsec / ±.0002” at 3” Radius

387P Indexer Capacities

<table>
<thead>
<tr>
<th>Stops</th>
<th>Index Period</th>
<th>Motion</th>
<th>B_{10} Capacity at 50 RPM (in-lb)</th>
<th>Internal Inertia (lb-in²)</th>
<th>Model</th>
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<td>14</td>
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Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.
512P SERIES
Parallel Shaft/Flange Drives | Dimensions

Dimensions and technical information are subject to change without notice
**Output Load Capacity** (loads carried during index):
- Radial: 2,715 lbs
- Thrust/Axial: 1.374 lbs
- Moment: 6,951 in-lb

**Accuracy**
- ±37 arcsec / ±.0005" at 3" Radius

**Repeatability**
- ±9 arcsec / ±.0001" at 3" Radius

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**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: 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

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**512P Indexer Capacities**

<table>
<thead>
<tr>
<th>Stops</th>
<th>Index Period</th>
<th>Motion</th>
<th>$B_{10}$ Capacity at 50 RPM (in-lb)</th>
<th>Internal Inertia (lb-in$^2$)</th>
<th>Model</th>
<th>“A” Center</th>
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Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.
662P SERIES
Parallel Shaft/Flange Drives | Dimensions

Dimensions and technical information are subject to change without notice.
### Output Load Capacity

<table>
<thead>
<tr>
<th></th>
<th>Radial 3,915 lbs</th>
<th>Thrust/Axial 2,042 lbs</th>
<th>Moment 12,959 in-lb</th>
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</thead>
</table>

**Accuracy**

±36 arcsec / ±.001” at 6” Radius

**Repeatability**

±9 arcsec / ±.0003” at 6” 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

- 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

### 662P Indexer Capacities

<table>
<thead>
<tr>
<th>Stops</th>
<th>Index Period</th>
<th>Motion</th>
<th>B₁₀ Capacity at 50 RPM (in-lb)</th>
<th>Internal Inertia (lb-in²)</th>
<th>Model</th>
<th>“A” Center</th>
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Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.