## INDEXERS

### Servo Positioners

- **GTB Series**
  - Globoidal (Roller Gear) Servo Positioner
  - IN-SRV-1

- **DSR Series**
  - Double Contact Bearing HD Servo Positioner
  - IN-SRV-19

- **PGM Series**
  - Parallel Gear Servo Positioner
  - IN-SRV-33

- **RSD Series**
  - Rotary Servo Drives
  - IN-SRV-39

### Mechanical Indexers

- **RDM Series**
  - Rotary Index Drive
  - IN-MCH-2

- **RA Series**
  - Right Angle Index Drive
  - IN-MCH-18

- **RD Series**
  - Roller Dial Index Drive
  - IN-MCH-28

- **E Series**
  - Heavy-Duty Index Drive
  - IN-MCH-40

- **RGD/RGS Series**
  - Roller Gear Index Drive
  - IN-MCH-52

- **P Series**
  - Parallel Shaft/Flange Drive
  - IN-MCH-72

## OVERLOAD CLUTCHES

- **Overload Clutches**
  - Output Overload
  - IN-CLU-1

## CUSTOM CAMS

- **Custom Cams**
  - Cam Design Solutions
  - IN-CAM-1

## CONVEYORS

- **Precision Link Series**
  - Table-Top
  - IN-CNV-2

- **Precision Link Series**
  - Heavy-Duty
  - IN-CNV-14

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  - Thin-Profile
  - IN-CNV-23

## PARTS HANDLERS

- **LPP Series**
  - Linear Part Handlers
  - IN-PRT-2

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  - Rotary Part Handlers
  - IN-PRT-8

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**PRECISION INDEXING SOLUTIONS**

**Indexers**

Servo Positioners

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<th>Description</th>
<th>Model</th>
</tr>
</thead>
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<td>Parallel Gear Servo Positioner</td>
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Mechanical Indexers

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</tr>
<tr>
<td>P</td>
<td>Parallel Shaft/Flange Drive</td>
<td>IN-MCH-72</td>
</tr>
</tbody>
</table>

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Dimensions and technical information are subject to change without notice.
Features:
The CAMCO RDM Series Index Drive is ideal for rotary dial applications with features including:

- Large output Mounting Surface supported by 4-point contact bearing offering superior thrust and moment capacity
- Large Center Thru Hole
- Low Profile
- Complete, Motorized Drive Packages
- Optional Output Overload Clutch

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<tr>
<td>902RDM</td>
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<td>1100RDM</td>
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<td>1305RDM</td>
<td>13</td>
</tr>
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<td>15</td>
</tr>
</tbody>
</table>

Dimensions and technical information are subject to change without notice
**RDM SERIES**

**Rotary Index Drive | How To Order**

**Base Model**
- **80RDM** w/ 1.80 reducer & 0.25 [1/3] AC motor (220/440V)
- **601RDM** w/ 1.80 reducer & 0.25 [1/3] AC motor (220/440V)
- **902RDM** w/ 2.25 reducer & 0.75 [1] AC motor (220/440V)
- **1100RDM** w/ KH47 reducer & 1.12 [1-1/2] AC motor (220/440V)
- **1305RDM** w/ 7300C reducer & 1.49 [2] AC motor (220/440V)

**Motion**
- **A** 2 330
- **B** 3 330
- **C** 4 330
- **D** 6 330
- **E** 8 330
- **F** 12 330
- **G** 16 330

**Index Mounting**
- (See Figure 3)

**Reducer Ratio**
- **1100RDM**
  - **A** 15 15.86
  - **B** 20 19.58
  - **C** 25 24.06
  - **D** 30 29.37
  - **E** 40 39.61
  - **F** 50 48.95
  - **G** 60 56.83
  - **H** 15 --

**Reducer Mounting**
- (See Figure 4)

**Control**
- **1** 1 HP 120V 80RDM, 601RDM & 902RDM only
- **2** 1 HP 240V 80RDM, 601RDM & 902RDM only
- **3** 1 HP 440V 80RDM, 601RDM & 902RDM only
- **4** 2 HP 240V 1100RDM & 1305RDM only
- **5** 2 HP 440V 1100RDM & 1305RDM only
- **6** 3 HP 240V 1800RDM only
- **7** 3 HP 440V 1800RDM only

**Clutch**
- **1** Standard detector plate
- **2** Detector plate with hole

**Setting**
- **N·m [in-lbs]**
  - **A** 47 [420]
  - **B** 70 [620]
  - **C** 85 [750]
  - **D** 130 [1150]
  - **E** 198 [1750]
  - **F** 333 [2950]
  - **G** 452 [4000]
  
  * Eg: For 601RDM

**Control**
- **1** 1 HP 120V 80RDM, 601RDM & 902RDM only
- **2** 1 HP 240V 80RDM, 601RDM & 902RDM only
- **3** 1 HP 440V 80RDM, 601RDM & 902RDM only
- **4** 2 HP 240V 1100RDM & 1305RDM only
- **5** 2 HP 440V 1100RDM & 1305RDM only
- **6** 3 HP 240V 1800RDM only
- **7** 3 HP 440V 1800RDM only

**Clutch**
- **1** Standard detector plate
- **2** Detector plate with hole

**Setting**
- **N·m [in-lbs]**
  - **A** 47 [420]
  - **B** 70 [620]
  - **C** 85 [750]
  - **D** 130 [1150]
  - **E** 198 [1750]
  - **F** 333 [2950]
  - **G** 452 [4000]
  
  * Eg: For 601RDM

**Input Shaft Configuration/Rotation (Figure 1)**

**Signal Switch Mounting Position (Figure 2)**

**Relative Rotation for Right Hand Cam:**
- CW Input Side 1 CCW Output
- CCW Input Side 2 CCW Output

**NOTE:** Input can be driven in either direction

---

Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.
### Gear Reducer Mounting Positions (Figure 4)

<table>
<thead>
<tr>
<th>Mounting “A”</th>
<th>Mounting “B”</th>
</tr>
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<tbody>
<tr>
<td><strong>RD Worm</strong></td>
<td><strong>LD Worm</strong></td>
</tr>
<tr>
<td>SIDEx1</td>
<td>SIDEx1</td>
</tr>
<tr>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>SIDEx2</td>
<td>SIDEx2</td>
</tr>
<tr>
<td>E</td>
<td>F</td>
</tr>
<tr>
<td><strong>Mounting “C”</strong></td>
<td><strong>Mounting “D”</strong></td>
</tr>
<tr>
<td><strong>RD Worm</strong></td>
<td><strong>LD Worm</strong></td>
</tr>
<tr>
<td><strong>RD Worm</strong></td>
<td><strong>LD Worm</strong></td>
</tr>
<tr>
<td>SIDEx1</td>
<td>SIDEx1</td>
</tr>
<tr>
<td>J</td>
<td>K</td>
</tr>
<tr>
<td>SIDEx2</td>
<td>SIDEx2</td>
</tr>
<tr>
<td>N</td>
<td>P</td>
</tr>
</tbody>
</table>

**Mounting “A”**
- OVOI (output vertical, over input)
- OVUI (output vertical, under input)
- OHOI (output horizontal, over input)
- OHUI (output horizontal, under input)
- H-S1-UP (output horizontal, side 1 up)
- H-S2-UP (output horizontal, side 2 up)

**Mounting “B”**
- RD Worm
- LD Worm

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

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**Figure 3**

**Figure 4**

**Figure 5**

**Figure 6**

---

**IN-MCH** | 4
Features

- R180 Reducer (Ratios from 15:1 to 60:1)
  - Double Extended Worm Shaft (Input)
  - Worm Shaft Handwheel
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (Ø70 mm [Ø2.76])
- 1/3 HP AC Drive Package with Inverter Duty Motor and IM-pAC AC Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam
- Universal Mounting Capability

Optional Accessories

- 1/3 HP DC Motor
- Varipak DC Motor Control (up to 30 cpm)
- Stationary Center Post
- Dual Cam and Limit Switch
- Electric Clutch-Brake
- Left Hand Cam

Output Load Capacity (loads carried during index):
  - Radial: 3358 N [755 lbs]
  - Thrust/Axial: 8385 N [1885 lbs]
  - Moment: 213 N-m [1885 in-lb]

Typical Application
  - Dial Diameter: 203 mm [8 in] to 711 mm [28 in]

Accuracy
  - ±44 arcsec / ±0.08 mm [±.003in] at 355.6 mm [14in] Radius

Repeatability
  - ±11 arcsec / ±0.018 mm [±.0007in] at 355.6 mm [14in] Radius

Maximum Inertia x 1000 kg-cm² [lb-in²] for standard package

<table>
<thead>
<tr>
<th>Stops</th>
<th>0.458</th>
<th>0.611</th>
<th>0.764</th>
<th>0.917</th>
<th>1.222</th>
<th>1.528</th>
<th>1.833</th>
</tr>
</thead>
</table>

Reducer Ratio

<table>
<thead>
<tr>
<th>Reducer Ratio</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>60</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Ø [mm]</th>
<th>Ø [in]</th>
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</thead>
<tbody>
<tr>
<td>0.75</td>
<td>0.030</td>
</tr>
<tr>
<td>19.05</td>
<td>0.750</td>
</tr>
<tr>
<td>10.00</td>
<td>0.394</td>
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</table>

4X Ø 1.734
Ø44.45
4X #10-24 UNC
Ø34.93
Ø2.250
Ø57.15
Ø1.375
Ø34.93
Ø2.250

601RDM SERIES

Rotary Index Drive | Product Overview | Technical Specifications

**Maximum Inertia x 1000 kg-cm² [lb-in²] for standard package**

<table>
<thead>
<tr>
<th>Stops</th>
<th>0.458</th>
<th>0.611</th>
<th>0.764</th>
<th>0.917</th>
<th>1.222</th>
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<th>1.833</th>
</tr>
</thead>
</table>

Reducer Ratio

15 20 25 30 40 50 60

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

**Features**

- R180 Reducer (Ratios from 15:1 to 60:1)
  - Double Extended Worm Shaft (Input)
  - Worm Shaft Handwheel
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (Ø44.45 [Ø1.75])
- 1/3 HP AC Drive Package with Inverter Duty Motor and IM-pAC AC Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

**Optional Accessories**

- 1/3 hp DC Motor
- Varipak DC Motor Control (up to 30 cpm)
- Output Overload Clutch model 4.0D
  - Available Settings (in-lbs): 420, 620, 750, 1150, 1750, 2940, 4000
- Stationary Center Post
- Dual Cam and Limit Switch
- Left Hand Cam
- Relief in Dwell for shot-pin applications

**Output Load Capacity** (loads carried during index):

- Radial: 4204 N [945 lbs]
- Thrust/Axial: 10498 N [2360 lbs]
- Moment: 373 N-m [3305 in-lb]

**Typical Application**

**Dial Diameter:** 305 mm [12 in] to 914 mm [36 in]

**Accuracy**

±39 arcsec / ±0.08 mm [±.003in] at 457.2 mm [18 in] Radius

**Repeatability**

±10 arcsec / ±0.023 mm [±.0009in] at 457.2 mm [18 in] Radius

Dimensions and technical information are subject to change without notice.

**Unless otherwise noted,** all dimensions are in inches.
Features

- R225 Reducer (Ratios from 15:1 to 60:1)
- Single Extended wormshaft (Standard)
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (Ø57.15 mm [Ø2.25])
- 1 HP AC Drive Package with Inverter Duty Motor and IM-pAC AC Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

Optional Accessories

- 1 hp DC Motor
- Varipak DC Motor Control (up to 30 cpm)
- Output Overload Clutch model 7.8D
  - Available Settings (in-lbs): 1400, 1700, 2600, 3200, 4200, 5000, 7200, 10000
- Stationary Center Post
- Dual Cam and Limit Switch
- Base Riser Blocks
- Electric Clutch-Brake
- Left Hand Cam
- Relief in Dwell for shot-pin applications

Output Load Capacity (loads carried during index):
- Radial: 15747 N [3540 lbs]
- Thrust/Axial: 31138 N [7000 lbs]
- Moment: 373 N-m [21620 in-lb]

Typical Application

Dial Diameter: 508 mm [20 in] to 1219 mm [48 in]

Accuracy
- ±27 arcsec / ±0.08 mm [±.003in] at 609.6 mm [24in] Radius

Repeatability
- ±10 arcsec / ±0.020 mm [±.0008in] at 609.6 mm [24in] Radius

Maximum Inertia x 1000 kg·cm² [lb-in²] for standard package

<table>
<thead>
<tr>
<th>Stops</th>
<th>Motion Time [seconds]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.458</td>
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</tbody>
</table>

Reducer Ratio

<table>
<thead>
<tr>
<th>Reducer Ratio</th>
</tr>
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<tbody>
<tr>
<td>15</td>
</tr>
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</table>

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

Dimensions and technical information are subject to change without notice.
1100RDM SERIES

Rotary Index Drive | Dimensions

Dimensions and technical information are subject to change without notice.
Features

- KH47 Reducer and AC Motor with Optional Brake
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (130 mm / 5.1 in. Diameter)
- AC drive package with Inverter Duty Motor and Inverter Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

Optional Accessories

- 7300C Reducer (Ratios from 15:1 to 60:1)
- 1.5 HP DC motor
- Varipak DC Motor Control (up to 30 cpm)
- 7350C Heavy Duty Reducer (Ratios from 10:1 to 60:1)
- Stationary Center Post
- Dual Cam and Limit Switch
- Left Hand Cam
- Relief in Dwell for shot-pin applications

Output Load Capacity (loads carried during index):
- Radial: 13789 N [3100 lbs]
- Thrust/Axial: 35586 N [8000 lbs]
- Moment: 3240 N·m [28674 in-lb]

Typical Application
- Dial Diameter: 508 mm [20 in] to 1524 mm [60 in]
- Accuracy: ±22 arcsec / ±0.08 mm [±.003in] at 76 mm [30in] Radius
- Repeatability: ±5 arcsec / ±0.020 mm [±.0008in] at 762 mm [30in] Radius

Maximum Inertia x 1000 kg-cm² [lb-in²] for standard package

<table>
<thead>
<tr>
<th>Stops</th>
<th>0.458</th>
<th>0.611</th>
<th>0.764</th>
<th>0.917</th>
<th>1.222</th>
<th>1.528</th>
<th>1.833</th>
</tr>
</thead>
</table>

Reducer Ratio

| 15.86 | 19.58 | 24.06 | 29.32 | 39.61 | 48.95 | 56.83 |

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

Dimensions and technical information are subject to change without notice.

Unless otherwise noted, all dimensions are in mm.
Dimensions and technical information are subject to change without notice.

1305RDM SERIES
Rotary Index Drive | Dimensions

Dimensions and technical information are subject to change without notice.
### Features
- **7300C Reducer (Ratios from 15:1 to 60:1)**
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (5.00 in. Diameter)
- 2 HP AC Drive Package with Inverter Duty Motor and Inverter Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

### Optional Accessories
- 2 hp DC Motor
- Varipak DC Motor Control (up to 30 cpm)
- **7350C Heavy Duty Reducer (Ratios from 10:1 to 60:1)**
- Output Overload Clutch model 32D
  - Available Settings (in-lbs): 8500, 13000, 20000, 31000
- Stationary Center Post
- Dual Cam and Limit Switch
- Base Riser Blocks
- Electric Clutch-Brake
- Left Hand Cam
- Relief in Dwell for shot-pin applications

### Output Load Capacity
- **Radial**: 20684 N [4650 lbs]
- **Thrust/Axial**: 51822 N [11650 lbs]
- **Moment**: 4579 N-m [40528 in-lb]

### Typical Application
- Dial Diameter: 508 mm [20 in] to 1829 mm [72 in]

### Accuracy
- ±38 arcsec / ±0.18 mm [±.007in] at 914.4 mm [36in] Radius
- ±10 arcsec / ±0.05 mm [±.002in] at 914.4 mm [36in] Radius

### Technical Specifications

#### Maximum Inertia x 1000 kg-cm² [lb-in²] for standard package

<table>
<thead>
<tr>
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<tbody>
<tr>
<td></td>
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### DIAL STATIONARY CENTER POST

**OVERLOAD CLUTCH**

(CUSTOMER TO MOUNT TO MACHINE BASE)

**STATIONARY CENTER POST**

**CYCLE CAM & LIMIT SWITCH**

Unless otherwise noted, all dimensions are in inches.
1800RD Series

Rotary Index Drive | Product Overview | Technical Specifications

### Maximum Inertia x 1000 kg-cm² [lb-in²] for standard package

<table>
<thead>
<tr>
<th>Stops</th>
<th>Motion Time [seconds]</th>
</tr>
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<tbody>
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<td>0.611</td>
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<tr>
<td>4</td>
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<tr>
<td>6</td>
<td>1.222</td>
</tr>
<tr>
<td>8</td>
<td>1.528</td>
</tr>
<tr>
<td>12</td>
<td>1.833</td>
</tr>
</tbody>
</table>

### Output Load Capacity (loads carried during index):
- Radial: 26022 N [5850 lbs]
- Thrust/Axial: 61166 N [14650 lbs]
- Moment: 7696 N-m [68119 in-lb]

### Typical Application
- Dial Diameter: 660 mm [26 in] to 1829 mm [96 in]

### Accuracy
- ±27 arcsec / ±0.15 mm [±.006in] at 1219.2 mm [48in] Radius

### Repeatability
- ±7 arcsec / ±0.041 mm [±.0016in] at 1219.2 mm [48in] Radius

### Features
- 7400C Reducer (Ratios from 15:1 to 60:1)
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (6.50 in. Diameter)
- 2 or 3 HP AC Drive Package with Inverter Duty Motor and Inverter Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

### Optional Accessories
- 2 hp DC Motor with Varipak DC Motor Control (up to 30 cpm)
- 3 hp DC Motor
- 7500C Heavy Duty Reducer (Ratios from 10:1 to 60:1)
- Output Overload Clutch model 61D
- Available Settings (in-lbs): 23000, 36000, 44000, 50000, 60000
- Stationary Center Post
- Dual Cam and Limit Switch
- Base Riser Blocks
- Electric Clutch-Brake
- Left Hand Cam
- Relief in Dwell for shot-pin applications

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

Unless otherwise noted, all dimensions are in inches.