ROVARY INDEX DRIVES

Product Overview

You are currently viewing:

RDM Dial Indexers

Additional Indexing Products:

Servo Positioner
Rotary Table ......................... IN-GTB

RA Right Angle Drives ....... IN-RA

RD HD Dial Indexers .......... IN-RD

E-Series HD Drives ............ IN-EHD

MDE/HDE Indexers .......... IN-MDE

RSD Flexible Servo Drives .. IN-RSD

RGS/RGD
Shaft/Flange Drives .......... IN-RGS

Parallel Shaft/Flange Drives .............. IN-PAR

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

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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Dimensions and technical information are subject to change without notice
### Base Model Description
- **80RDM**: w/ R180 reducer & 1/3 hp AC motor (220/440V)
- **601RDM**: w/ R180 reducer & 1/3 hp AC motor (220/440V)
- **902RDM**: w/ R225 reducer & 1 hp AC motor (220/440V)
- **1100RDM**: w/ KH47 reducer & 1-1/2 hp AC motor (220/440V)
- **1305RDM**: w/ 7300C reducer & 2 hp AC motor (220/440V)
- **1800RDM**: w/ 7400C reducer & 3 hp AC motor (220/440V)

### Control Description
- 1 hp 120V 80RDM, 601RDM & 902RDM only
- 1 hp 240V 80RDM, 601RDM & 902RDM only
- 1 hp 440V 80RDM, 601RDM & 902RDM only
- 2 hp 240V 1100RDM & 1305RDM only
- 2 hp 440V 1100RDM & 1305RDM only
- 3 hp 240V 1800RDM only
- 3 hp 440V 1800RDM only

### Clutch Description
- Standard detector plate
- Detector plate with hole

### Setting (in-lbs)
- A: 420
- B: 620
- C: 750
- D: 1150
- E: 1750
- F: 2950
- G: 4000

* Eg: For 601RDM

### Signal Switch Side
- M: Mechanical
- D: Double
- K: Proximity

### Example: MR, MS, DR, DS, PR or PS
- a) Mechanical is a single switch with cam.
- b) Proximity option is a mounting bracket for 8 or 12 mm proximity switch.
- A proximity switch will not be supplied.
- Cam supplied as target.

### Dimensions and technical information are subject to change without notice
### Gear Reducer Mounting Positions (Figure 4)

<table>
<thead>
<tr>
<th>Mounting “A”</th>
<th>Mounting “B”</th>
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<tbody>
<tr>
<td>RD Worm</td>
<td>LD Worm</td>
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<tr>
<td><img src="#" alt="Diagram A" /></td>
<td><img src="#" alt="Diagram B" /></td>
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<tr>
<td><img src="#" alt="Diagram E" /></td>
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<table>
<thead>
<tr>
<th>Mounting “C”</th>
<th>Mounting “D”</th>
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<td>LD Worm</td>
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<tr>
<td><img src="#" alt="Diagram J" /></td>
<td><img src="#" alt="Diagram K" /></td>
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<tr>
<td><img src="#" alt="Diagram N" /></td>
<td><img src="#" alt="Diagram P" /></td>
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</table>
**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 (70 mm / 2.76 in. Diameter)
- 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: 755 lbs
- Thrust/Axial: 1,885 lbs
- Moment: 1,885 in-lb

**Typical Application**
- Dial Diameter: 8 in. to 28 in.
- Accuracy: ±44 arcsec / ±.003" at 14" Radius
- Repeatability: ±11 arcsec / ±.0007" at 14" Radius

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 (1.75 in. Diameter)
- 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: 945 lbs
- Thrust/Axial: 2,360 lbs
- Moment: 3,305 in-lb

Typical Application

- Dial Diameter: 12 in. to 36 in.
- Accuracy: ±39 arcsec / ±.003” at 18” Radius
- Repeatability: ±10 arcsec / ±.0009” at 18” Radius

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

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<th>0.611</th>
<th>0.764</th>
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<th>1.222</th>
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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
- R225 Reducer (Ratios from 15:1 to 60:1)
- Single Extended wormshaft (Standard)
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (2.25 in. Diameter)
- 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: 3,540 lbs
- Thrust/Axial: 7,000 lbs
- Moment: 21,620 in-lb

### Typical Application
- Dial Diameter: 20 in. to 48 in.
- Accuracy: ±27 arcsec / ±.003” at 24” Radius
- Repeatability: ±7 arcsec / ±.0008” at 24” Radius

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

<table>
<thead>
<tr>
<th>Stops</th>
<th>0.458</th>
<th>0.611</th>
<th>0.764</th>
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<th>25</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>60</th>
</tr>
</thead>
</table>

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

Unless otherwise noted, all dimensions are in inches.

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

Rotary Index Drive | Dimensions

Unless otherwise noted, all dimensions are in mm.

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: 3100 lbs
- Thrust/Axial: 8000 lbs
- Moment: 28,674 in-lbs

### Typical Application

- Dial Diameter: 20 in. to 60 in.
- Accuracy: ±22 arcsec / ±.003” at 30” Radius
- Repeatability: ±5 arcsec / ±.0008” at 30” Radius

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

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<th>Motion Time [seconds]</th>
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<td>12</td>
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<tr>
<td>16</td>
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</table>

### Reducer Ratio

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

Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.
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 (loads carried during index):
- Radial: 4,650 lbs
- Thrust/Axial: 11,650 lbs
- Moment: 40,528 in-lb

Typical Application
- Dial Diameter: 20 in. to 72 in.
- Accuracy: ±38 arcsec / ±.007” at 36” Radius
- Repeatability: ±10 arcsec / ±.002” at 36” Radius

Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.
1800RDM SERIES

Rotary Index Drive | Product Overview | Technical Specifications

**Maximum Inertia x 1000 [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>
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**Reducer Ratio**

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<th>25</th>
<th>30</th>
<th>40</th>
<th>50</th>
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</table>

**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

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

- Radial: 5,850 lbs
- Thrust/Axial: 14,650 lbs
- Moment: 68,119 in-lb

**Typical Application**

- Dial Diameter: 26 in. to 96 in.
- Accuracy: ±27 arcsec / ±.006" at 48” Radius
- Repeatability: ±7 arcsec / ±.0016” at 48” Radius

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