INDEXERS

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Globoidal (Roller Gear) Servo Positioner.......................... IN-SRV-1

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

Mechanical Indexers

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

RD Series
Roller Dial Index Drive.......... IN-MCH-18

E Series
Heavy-Duty Index Drive ....... IN-MCH-30

RA Series
Right Angle Index Drive .......... IN-MCH-42

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

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

RNG Series
Ring Drive Dial Indexer.....IN-MCH-84

OVERLOAD CLUTCHES

Overload Clutches
Output Overload............... IN-CLU-1

CUSTOM CAMS

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

CONVEYORS

Rite-Link Series
Thin-Profile......................... IN-CNV-1

Precision Link Series
Table-Top .......................... IN-CNV-4

Precision Link Series
Heavy-Duty ....................... IN-CNV-16

PARTS HANDLERS

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

RPP Series
Rotary Part Handlers .......... IN-PRT-8
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.
**RDM SERIES**

**Rotary Index Drive | How To Order**

**Base Model** | Description kW [HP]
--- | ---
80RDM | w/ R180 reducer & 0.25 [1/3] AC motor (220/440V)
601RDM | w/ R180 reducer & 0.25 [1/3] AC motor (220/440V)
902RDM | w/ R225 reducer & 0.75 [1] AC motor (220/440V)
1100RDM | w/ KH47 reducer & 1.12 [1-1/2] AC motor (220/440V)

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

**Reducer Ratio**

<table>
<thead>
<tr>
<th>Reducer Mounting</th>
<th>1100RDM</th>
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<tr>
<td>A</td>
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<td>C</td>
<td>25</td>
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<td>G</td>
<td>60</td>
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<td>H</td>
<td>15</td>
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**Reducer Mounting**

<table>
<thead>
<tr>
<th>Reducer Mounting</th>
<th>(See Figure 4)</th>
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<td>A</td>
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<tr>
<td>B</td>
<td>K</td>
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<tr>
<td>C</td>
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<td>G</td>
<td>R</td>
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<td>H</td>
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**Control** | Description
--- | ---
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** | Description
--- | ---
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

**Reducing**

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

**Signal Switch** | Description
--- | ---
A | Mechanical
B | Double
C | Proximity

**Signal Switch Side** | (See Figure 2)
--- | ---
M | Mechanical
R | Reducer
S | Shaft

**Example: MR, MS, DR, DS, PR or PS**

**Note about signal switch options:**
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.

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

**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.

Dimensions and technical information are subject to change without notice.
Mounting "A" Mounting "B"

<table>
<thead>
<tr>
<th>OVOI</th>
<th>OVUI</th>
<th>OHOI</th>
<th>OHUI</th>
<th>H-S1-UP</th>
<th>H-S2-UP</th>
</tr>
</thead>
<tbody>
<tr>
<td>(output vertical, over input)</td>
<td>(output vertical, under input)</td>
<td>(output horizontal, over input)</td>
<td>(output horizontal, under input)</td>
<td>(output horizontal, side 1 up)</td>
<td>(output horizontal, side 2 up)</td>
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</table>

Gear Reducer Mounting Positions (Figure 4)
Dimensions and technical information are subject to change without notice.
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 [±.003 in]
at 355.6 mm [14 in] Radius

Repeatability

±11 arcsec / ±0.018 mm [±.0007 in]
at 355.6 mm [14 in] 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>
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<tr>
<td></td>
<td>Motion Time [seconds]</td>
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Reducer Ratio

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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 [18in] Radius
- Repeatability: ±10 arcsec / ±0.023 mm [±.0009in] at 457,2 mm [18in] Radius

Dimensions and technical information are subject to change without notice
902RDM SERIES

Rotary Index Drive | Dimensions

Dimensions and technical information are subject to change without notice.
902RDM SERIES

Rotary Index Drive | Product Overview | Technical Specifications

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

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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 (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

Dimensions and technical information are subject to change without notice

Unless otherwise noted, all dimensions are in inches.
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

Dimensions and technical information are subject to change without notice.

Unless otherwise noted, all dimensions are in mm.
**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: 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

**Repeatability**

- ±10 arcsec / ±0.05 mm [±.002in] at 914.4 mm [36in] Radius

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

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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: 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

### 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.

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**1800RDM Series**

Rotary Index Drive | Product Overview | Technical Specifications

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**IN-MCH | 16**

Dimensions and technical information are subject to change without notice.