PRECISION INDEXING SOLUTIONS

Table of Contents

INDEXERS

Servo Positioners



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



RSD Series	
Rotary Servo Drives	IN-SRV-39

Mechanical Indexers



RDM Series Rotary Index DriveIN-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-TopIN-CNV-4



Precision Link Series	
Heavy-Duty	IN-CNV-16

PARTS HANDLERS



LPP Series Linear Part HandlersIN-PRT-2



RPP Series Rotary Part Handlers IN-PRT-8

RING DRIVE DIAL INDEXER

Features | How To Order



Work from Within

The **CAMCO Ring Drive** offers easy-to-integrate automation that fits easily into your operations.

Minimize machine footprint: Mount your equipment inside the through-hole of the CAMCO Ring Drive.

Easily tool the ring drive: Attach fixtures directly to the dial ring, eliminating the need for an additional dial plate.

Best technical support and service: Worldwide access to our global network.

Applications

Printing and decorating machines

Rotary automatic assembly machines

Ideal for assembly systems requiring

a large number of tooling stations

The Ring Drive can replace a small conveyor

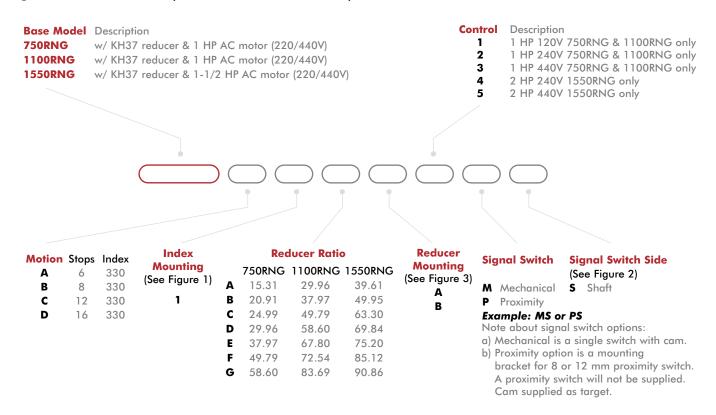
Table of Contents

How to Order	3
750RNG	5
1100RNG	7
1550RNG	9

Licensed under U.S. Patent No. 5,950,503



Ring Drive Dial Indexer | Features and Benefits | How to Order



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

Ring Drive Features

Great Design Flexibility

Available in three sizes (Ø): .75 m [29.53 in], 1.1 m [43.31 in] and 1.6 m [62.99 in]

Complete motorized drive package with reducer and AC inverter drive to suit most applications

Dial Ring can be removed for machining to mounting your tooling and fixtures.

Large center through-hole to accommodate auxiliary equipment

60 station capability, ideal for multiple part automatic assembly machines

Steel Dial Ring or optional Aluminum Ring Broad range of motions/drive packages

Robust And Reliable

Superior accuracy, similar to a precision link conveyor - your work station is located over the cam for maximum accuracy.

High precision, hardened cams available in standard and special motions

Sealed 4-point contact output bearing and large cam followers for superior accuracy and load capability (models 750RNG, 1100RNG and 1550RNG)

Modular shaft-mounted reducers for application flexibility and easy maintenance

Access to cam followers for easy inspection and replacement

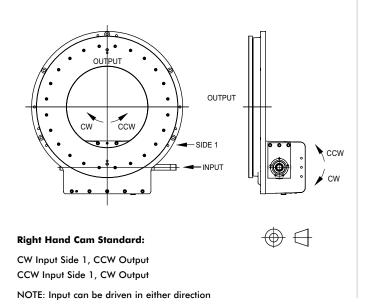
Tapered roller bearings on camshaft

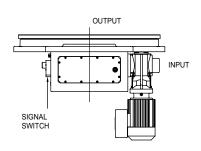


Ring Drive Dial Indexer | Configurations

Input Shaft Configuration/Rotations (Figure 1)

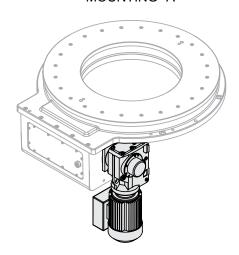
Signal Switch Mounting Position (Figure 2)



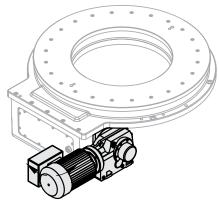


Gear Reducer Mounting Positions (Figure 3)

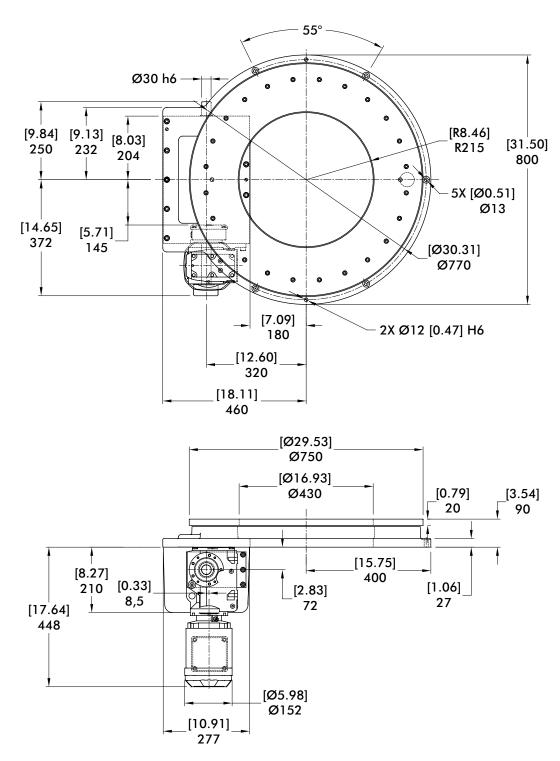
MOUNTING "A"







Ring Drive Dial Indexer | Dimensions





Ring Drive Dial Indexer | Features | Optional Accessories | Technical Information

Maximum Inertia x 1000 kg-cm² [lb-in²] for standard package								
Motion Time [seconds]								
Stops	0.468	0.617	0.764	0.915	1.160	1.521	1.791	
6	0 [0]	50 [17]	170 [58]	363 [124]	855 [292]	1653 [565]	2315 [791]	
8	9 [3]	138 [47]	354 [121]	696 [238]	1571 [537]	2991 [1022]	4167 [1424]	
12	105 [36]	392 [134]	878 [300]	1650 [564]	3620 [1237]	6813 [2328]	9461 [3233]	
16	237 [81]	746 [255]	1610 [550]	2982 [1019]	6488 [2217]	12162 [4156]	16871 [5765]	
Reducer Ratio								
	15.31	20.19	24.99	29.96	37.97	49.79	58.60	

Features

- KH37 Reducer (Ratios from 15.31:1 to 58.6:1)
- 1 HP AC Drive Package with Inverter Duty Motor and IM-pAC AC Drive (up to 60 cpm)
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (Ø230 mm [Ø9.05 in])
- · Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

Optional Accessories

- KH47 Reducer
- 2 HP AC Drive Package with Inverter Duty Motor and Commander SK AC Drive (up to 60 cpm)
- Dual Cam and Limit Switch
- Left Hand Cam
- AC brake Motor
- Aluminum dial ring
- · Servo motor drive package with precision planetary reducer for applications requiring flexibility or fewer than 6 stations
- · Custom dials & tooling plates
- Machined base (see pg. IN-MCH-84)

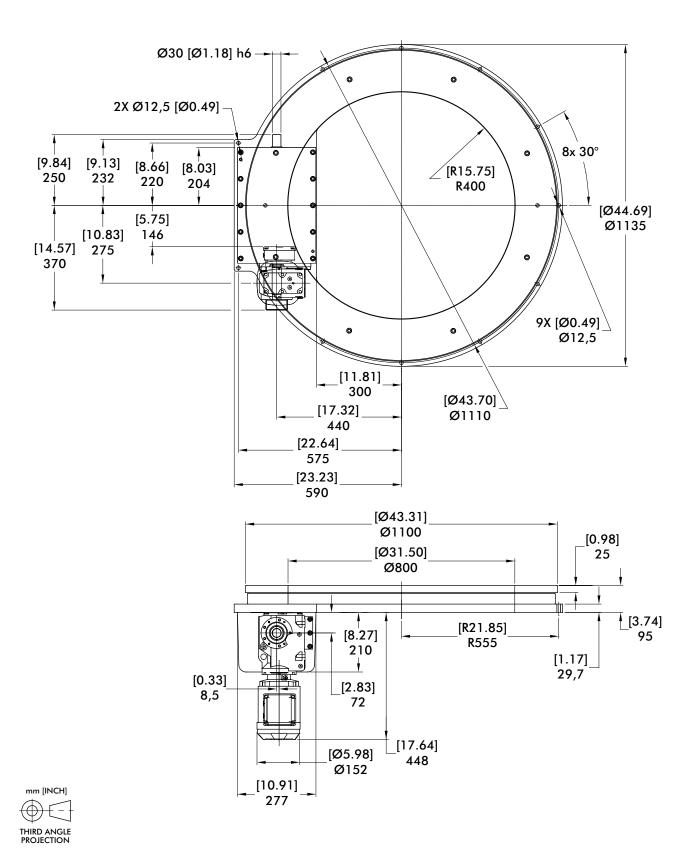
Output Bearing Capacity (loads carried during index):

25740 N [5580 lbs] Radial 64020 N [14550 lbs] Axial 6915 N-m [61200 in-lbs] Moment

 ± 60 arcsec / $\pm 0{,}047$ mm [±.0019 in] at 324 mm [12.75 in] Radius Accuracy



Ring Drive Dial Indexer | Dimensions





Ring Drive Dial Indexer | Features | Optional Accessories | Technical Information

Maximum Inertia x 1000 kg-cm² [lb-in²] for standard package							
Stone			Mo	Motion Time [seconds]			
Stops	0.915	1.359	1.521	1.791	2.072	2.217	2.557
6	164 [56]	1106 [378]	1454 [497]	2119 [724]	2923 [999]	3386 [1157]	4594 [1570]
8	497 [170]	2174 [743]	2792 [954]	3971 [1357]	5405 [1847]	6224 [2127]	8372 [2861]
12	1451 [496]	5221 [1784]	6614 [2260]	9262 [3165]	12490 [4268]	14336 [4899]	19168 [6550]
16	2783 [951]	9484 [3241]	11963 [4088]	16672 [5697]	22407 [7657]	25688 [8778]	34280 [11714]
Reducer Ratio							
	29.96	37.97	49.79	58.60	67.80	72.54	83.69

Features

- KH37 Reducer (Ratios from 29.96:1 to 83.69:1)
- 1 HP AC Drive Package with Inverter Duty Motor and IM-pAC AC Drive (up to 60 cpm)
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (Ø800 mm [Ø31.50 in])
- · Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

Optional Accessories

- KH47 Reducer
- 2 HP AC Drive Package with Inverter Duty Motor and Commander SK AC Drive (up to 60 cpm)
- Dual Cam and Limit Switch
- Left Hand Cam
- AC brake Motor
- · Aluminum dial ring
- Servo motor drive package with precision planetary reducer for applications requiring flexibility or fewer than 6 stations
- Custom dials & tooling plates
- Machined base (see pg. IN-MCH-84)

Output Bearing Capacity (loads carried during index):

Radial 159940 N [36350 lbs] Axial 72829 N [16552 lbs] Moment 16879 N-m [149376 in-lbs]

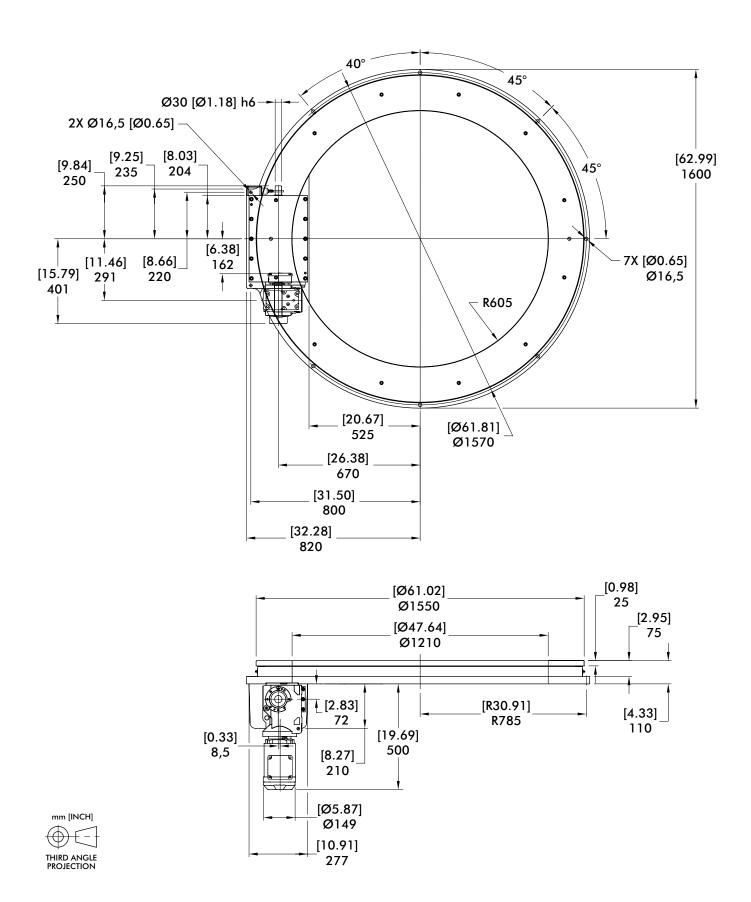
Accuracy ± 35 arcsec $/\pm 0,038$ mm $[\pm .0015$ in] at

448 mm [17.65 in] Radius

Repeatability ±9 arcsec / ±0,010 mm [±.0004 in] at 448 mm [17.65 in] Radius



Ring Drive Dial Indexer | Dimensions





Ring Drive Dial Indexer | Features | Optional Accessories | Technical Information

Maximum Inertia x 1000 kg-cm² [lb-in²] for standard package								
Stone	Motion Time [seconds]							
Stops	1.210	1.496	1.934	2.134	2.298	2.601	2.776	
6	679 [232]	2242 [766]	5063 [1730]	6380 [2180]	7556 [2582]	9964 [3405]	11495 [3928]	
8	1984 [678]	4764 [1628]	9780 [3342]	12121 [4142]	14214 [4857]	18495 [6320]	21211 [7248]	
12	5718 [1954]	11972 [4091]	23253 [7946]	28527 [9748]	33232 [11356]	42863 [14647]	48979 [16737]	
16	10954 [3743]	22071 [7542]	42125 [14395]	51499 [17598]	59868 [20458]	76985 [26307]	87859 [30023]	
Reducer Ratio								
	39.61	48.95	63.30	69.84	75.20	85.12	90.86	

Features

- KH47 Reducer (Ratios from 39.61:1 to 90.866:1)
- 2 HP AC Drive Package with Inverter Duty Motor and IM-pAC AC Drive (up to 60 cpm)
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (Ø1210 mm [Ø47.64 in])
- · Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

Optional Accessories

- · Dual Cam and Limit Switch
- Left Hand Cam
- AC brake Motor
- Aluminum dial ring
- · Servo motor drive package with precision planetary reducer for applications requiring flexibility or fewer than 6 stations
- Custom dials & tooling plates
- Machined base (see pg. IN-MCH-84)

Output Bearing Capacity (loads carried during index):

239052 N [54330 lbs] Radial 76635 N [17417 lbs] Axial 25720 N-m [227622 in-lbs] Moment

 ± 25 arcsec / $\pm 0,039$ mm [$\pm .0015$ in] at 648 mm [25.51 in] Radius Accuracy

Repeatability ± 6 arcsec / $\pm 0,010$ mm [$\pm .0004$ in] at 648 mm [25.51 in] Radius

