RING DRIVE DIAL INDEXER

Product Overview

You are currently viewing:



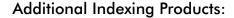
RNG Easy Access Dial Indexers



Parallel Shaft/ Flange Drives IN-PAR



Rite-Link Conveyors IN-RLC





Servo Positioner
Rotary TableIN-GTB



Table-Top Modular Conveyors IN-TTC



RDM Dial Indexers IN-RDM



Heavy Duty Modular Conveyors IN-HDC



RA Right Angle Drives IN-RA



LPP Linear Part Handles IN-LPP



RD HD Dial Indexers IN-RD



RPP Rotating Part Handlers .. IN-RPP



E-Series HD Drives IN-EHD



Overload Clutches IN-CLU



MDE/HDE Indexers IN-MDE



Custom Cams IN-CAM



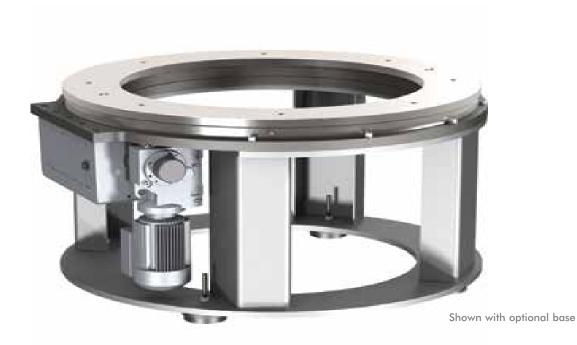
RSD Flexible Servo Drives .. IN-RSD



RGS/RGD Shaft/Flange Drives IN-RGS

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

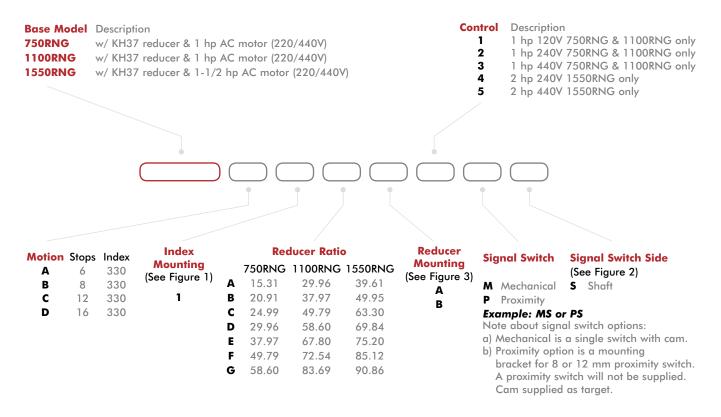
The Ring Drive can replace a small conveyor

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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: .75, 1.1 and 1.6 meter diameters

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

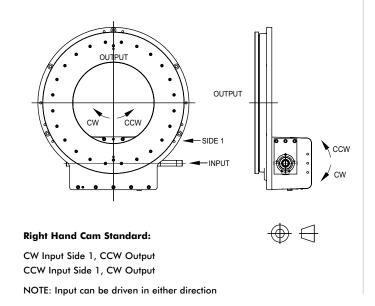
Tapered roller bearings on camshaft

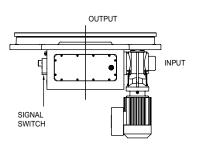


Ring Drive Dial Indexer | Configurations

Input Shaft Configuration/Rotations (Figure 1)

Signal Switch Mounting Position (Figure 2)

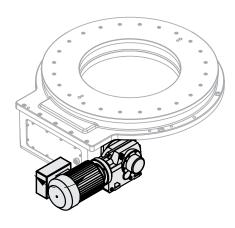




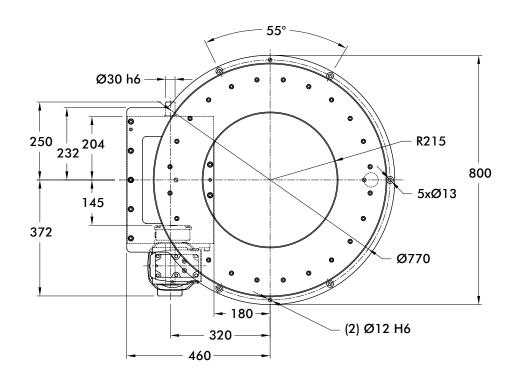
Gear Reducer Mounting Positions (Figure 3)

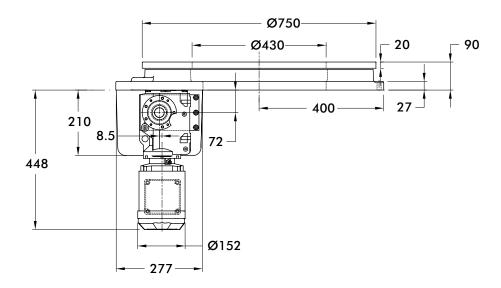
MOUNTING "A"

MOUNTING "B"



Ring Drive Dial Indexer | Dimensions









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

Maximum Inertia x 1000 [lb-in²] for standard package								
Stone	Motion Time [seconds]							
Stops	0.468	0.617	0.764	0.915	1.160	1.521	1.791	
6	0	17	58	124	292	565	791	
8	3	47	121	238	537	1,022	1,424	
12	36	134	300	564	1,237	2,328	3,233	
16	81	255	550	1,019	2,217	4,156	5,765	
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 (230 mm Diameter)
- · 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 bases (see cover)

Output Bearing Capacity (loads carried during index):

Radial 25,740 N [5,580 lbs]
Axial 64,020 N [14,550 lbs]
Moment 6,915 Nm [61,200 in-lbs]

Accuracy ±60 arcsec / ±.047 mm at 324 mm Radius

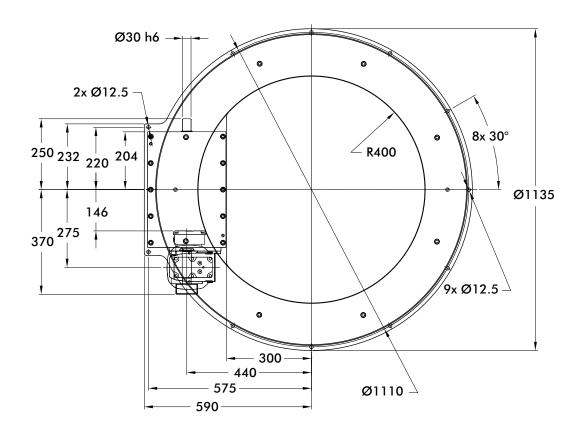
±.0019" at 12.75" Radius

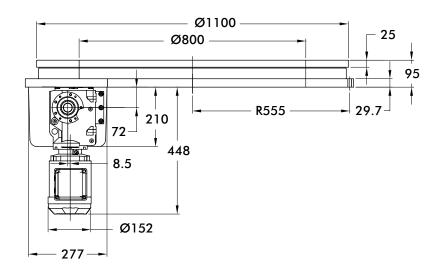
Repeatability ±15 arcsec / ±.012 mm at 324 mm Radius

±.0005" at 12.75" Radius



Ring Drive Dial Indexer | Dimensions









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

Maximum Inertia x 1000 [lb-in²] for standard package								
£4	Motion Time [seconds]							
Stops	0.915	1.359	1.521	1.791	2.072	2.217	2.557	
6	56	378	497	724	999	1,157	1,570	
8	170	743	954	1,357	1,847	2,127	2,861	
12	496	1784	2,260	3,165	4,268	4,899	6,550	
16	951	3,241	4,088	5,697	7,657	8,778	11,714	
	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 (800 mm Diameter)
- · 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 bases (see cover)

Output Bearing Capacity (loads carried during index):

Radial 159,940 N [36,350 lbs]
Axial 72,829 N [16,552 lbs]
Moment 16,879 Nm [149,376 in-lbs]

Accuracy ± 35 arcsec $/ \pm .038$ mm at 448 mm Radius

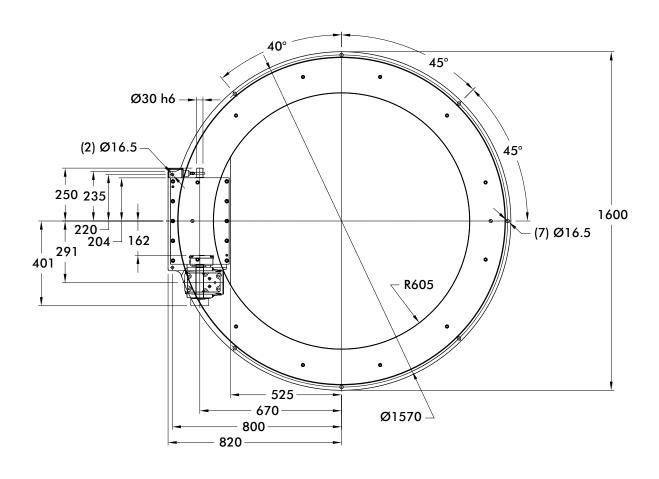
±.0015" at 17.65" Radius

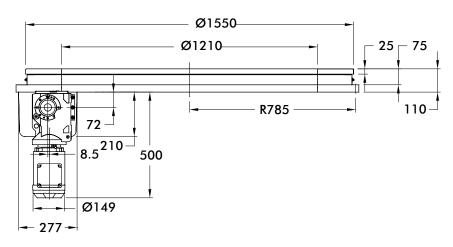
Repeatability ±9 arcsec / ±.010 mm at 448 mm Radius

±.0004" at 17.65" Radius



Ring Drive Dial Indexer | Dimensions









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

Maximum Inertia x 1000 [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	232	766	1,730	2,180	2,582	3,405	3,928	
8	678	1,628	3,342	4,142	4,857	6,320	7,248	
12	1,954	4,091	7,946	9,748	11,356	14,647	16,737	
16	3,743	7,542	14,395	17,598	20,458	26,307	30,023	
	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 (1210 mm Diameter)
- · 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 bases (see cover)

Output Bearing Capacity (loads carried during index):

Radial 239,052 N [54,330 lbs] Axial 76,635 N [17,417 lbs] Moment 25,720 Nm [227,622 in-lbs]

Accuracy ±25 arcsec / ±.039 mm at 648 mm Radius

±.0015" at 25.51" Radius

