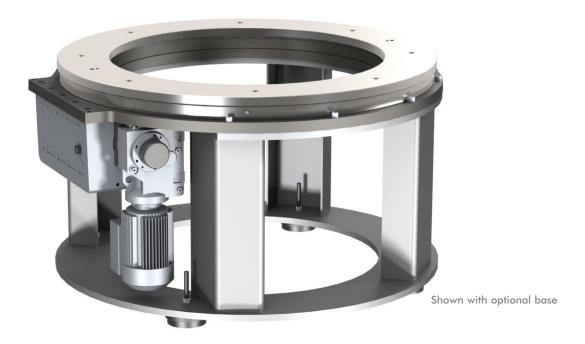


RNG Series Ring Drives



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

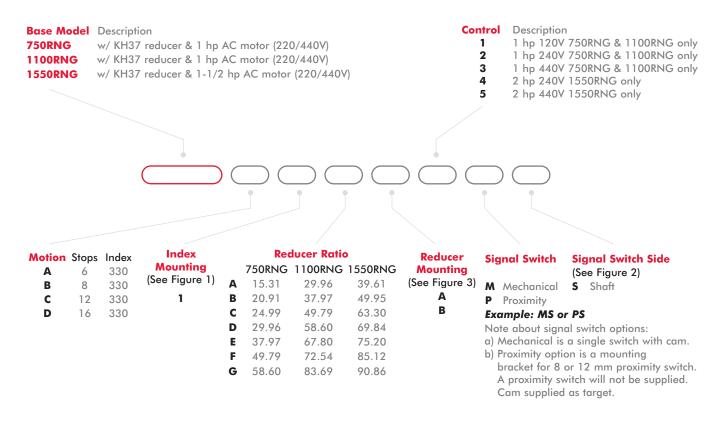
- Printing and decorating machines
- Rotary automatic assembly machines
- Ideal for assembly systems requiring a large number of tooling stations
- The Ring Drive can replace a small conveyor

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

RNG Series How to Order



Other Motions (stops and index periods) available. Contact your DE-STA-CO 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



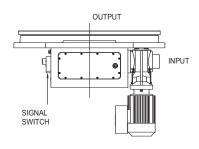
NOTE: Input can be driven in either direction



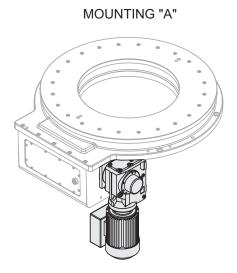
Input Shaft Configuration/Rotations (Figure 1)

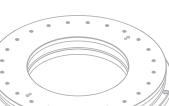
OUTPUT SIDE 1 INPUT **Right Hand Cam Standard:** CW Input Side 1, CCW Output CCW Input Side 1, CW Output

Signal Switch Mounting Position (Figure 2)



Gear Reducer Mounting Positions (Figure 3)



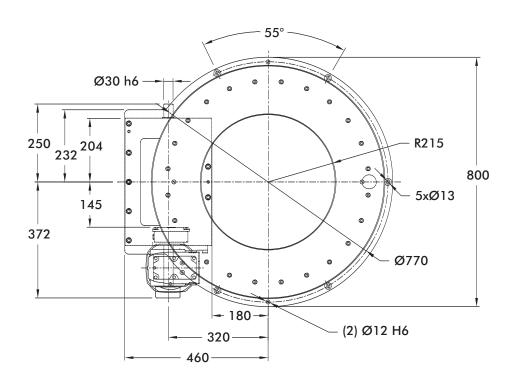


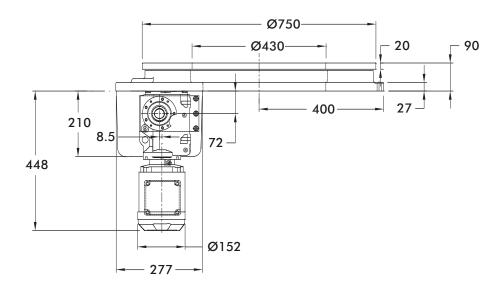
MOUNTING "B"





750RNG Standard Dimemsions











750RNG Product Overview and Technical Specifiations

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 / $\pm .047$ mm at 324" Radius

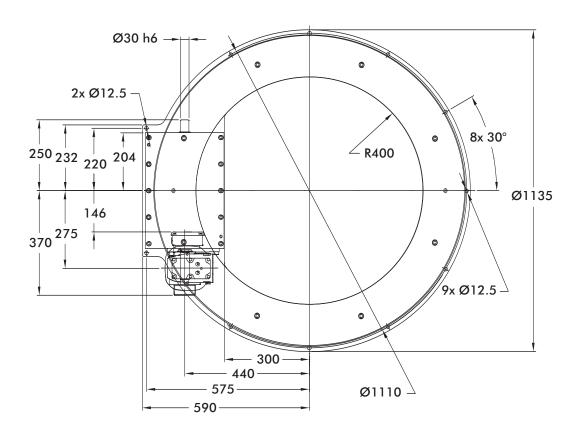
±.0019" at 12.75" Radius

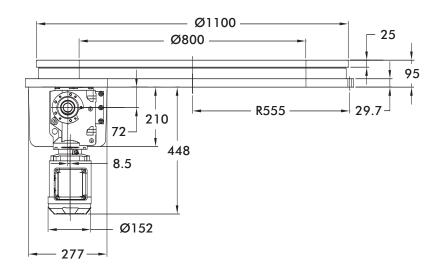
Repeatability ± 15 arcsec / $\pm .012$ mm at 324" Radius

±.0005" at 12.75" Radius



1100RNG Standard Dimemsions











1100RNG Product Overview and Technical Specifiations

Maximum Inertia x 1000 [lb-in²] for standard package								
Stone	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 / ±.038 mm at 448.30" Radius

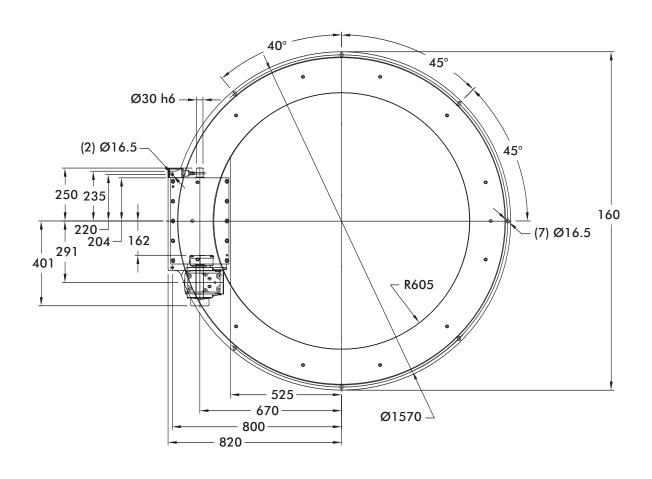
±.0015" at 17.65" Radius

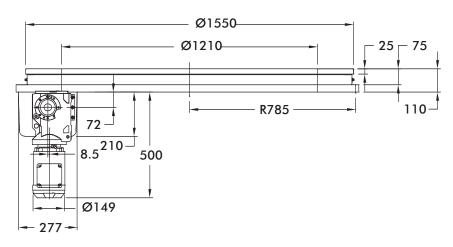
Repeatability ±9 arcsec / ±.010 mm at 448.30" Radius ±.0004" at 17.65" Radius





1550RNG Standard Dimemsions











1550RNG Product Overview and Technical Specifiations

Maximum Inertia x 1000 [lb-in²] for standard package								
Stops	Motion Time [seconds]							
Siops	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 / $\pm .039$ mm at 648.00" Radius

±.0015" at 25.51" Radius

Repeatability ± 6 arcsec / $\pm .010$ mm at 648.00" Radius ±.0004" at 25.51" Radius

