

# RNG Series

## Precision Index Drives

Destaco's CAMCO Ring Drive offers an easy to integrate automation solution that fits easily into your operations. The main feature of the Ring Drive is the large center opening which minimizes your machine footprint. This allows a customer to mount equipment inside of the through-hole.

The dial ring can be removed for machining, allowing a customer to attach fixtures directly, eliminating the need for an additional dial plate. Drive packages can be provided complete with reducer and AC inverter drives to suit most applications.

With the best technical support and service, and access to our global network, Destaco's CAMCO Ring Drives are simply a superior design with great flexibility.














### Product Highlights/Options

- Large center through-hole
- Three sizes available
- Steel and optional aluminum dial ring



INDEXING

### Features, Markets and Applications

|  |   |   |  |
|--|---|---|--|
|  <p>PRECISION</p>       | <ul style="list-style-type: none"> <li>• High precision, hardened cams available in standard and special motions</li> <li>• Superior accuracy at the working radius when compared to a traditional indexer</li> </ul>   |  <p>PACKAGING</p>      |  <p>ASSEMBLY</p>      |
|  <p>PERFORMANCE</p>     | <ul style="list-style-type: none"> <li>• Sealed 4-point contact output bearing and large cam followers for superior accuracy and load capacity</li> <li>• 60 Station capacity, Ideal for multi-part automatic assembly machines</li> </ul>                    |  <p>INDUSTRIAL</p>     |  <p>WELDING</p>       |
|  <p>INTERCHANGEABLE</p> | <ul style="list-style-type: none"> <li>• Large Center through-hole to accommodate auxiliary equipment</li> <li>• Broad range of motions and drive packages for greater flexibility</li> <li>• Modular assembly makes ring drives easy to maintain.</li> </ul> |  <p>CONSUMER GOODS</p> |  <p>CNC MACHINING</p> |
|  |   |  <p>TRANSPORTATION</p> |  <p>MOLDING</p>       |

## RNG Series Precision Indexing

The RNG Series Ring Drives motion can be driven by two types drive systems, a fixed stop drive system and a flexible servo drive option.

### The Fixed Stop Drive System

The fixed step cam profile has two parts: an indexing period and a dwell period. With the motor rotating at a constant rate, the cam is cycling through the indexing period then the dwell period.

During the indexing period, the indexer rotates a predetermined degrees of movement, depending on the design of the cam.

During the dwell period, the indexer is at a standstill for a predetermined time, again depending the cam design.

The proportions or index-to-dwell period is fixed. It is cam-dependent and cannot be changed unless a new cam is installed.

With this type of drive system, the available number of stops are 4, 6, 8, 12, and 16. Additional cam motions are available.



### The Flexible Servo Drive Option

Servo indexing is accomplished by using a servo motor with a constant lead cam, a cam with a single helical profile without a dwell period.

The servo motor controls the motion, number of stops and dwell period. This offer customers greater flexibility, with the ability to program customized stops, indexing and timing of stops to fit their unique needs.



### Flexible Mounting

The RNG Series Ring Drives can be sold with an optional mounting base. This give customers flexibility to create their own mounting, or work with the Destaco team to provide a mounting base to fit their needs.



Dimensions and technical information are subject to change without notice.

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