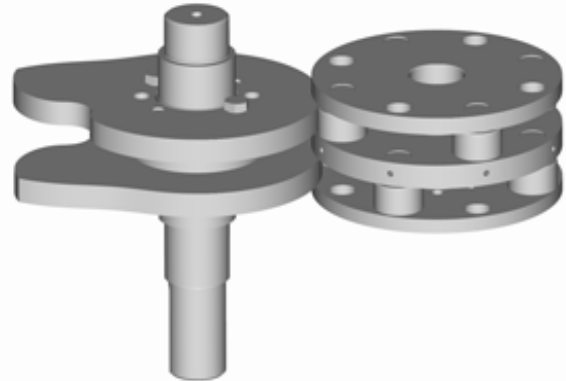


IMC Parallel Index Drives are ideal for high-speed applications or for actuation-type applications such as driving a linkage or a conveyor. Parallel Index Drive features include:

- **Hardened and ground conjugate cams**
- Yoke-mounted, preloaded cam followers are non-reversing for **high capacity** and **speed capability**
- Whole or fractions stops, oscillating and **complex custom motions** are available
- **Long Transfer Distances** achieved with simple linkages.
- **Greatest** power transmission **efficiency** when compared to other indexing geometries.
- Preloaded, tapered roller bearings for **rigidity** and **backlash-free** operation.



IMC Parallel Index Drives feature two plate cams mounted as a conjugate pair. The follower wheel has one cam follower above and another below the center line of the input, producing a preloaded locking action. Parallel indexers are capable of producing high speeds, large output displacements and low number of stops. Their input and output shaft design is best suited for any type of inline conveying system, shuttle drives and lift-and-carry mechanisms.

High Speed

Designed for high speed indexing, IMC Parallel Series index drives are capable of up to 2,000 indexes per minute. They feature cam followers that do not reverse rotation during index and that remain preloaded throughout the entire motion.

Rugged Design

IMC cam followers are yoke mounted and supported on both ends, making the Parallel Series capable of absorbing momentary overloads. Their special preloaded, tapered roller bearings add rigidity and backlash-free operation.

Design and Operation Efficiency

Parallel Indexers provide greater efficiency in power transmission and a higher torque-to-dollar ratio than alternative methods of motion.

Universal Mounting / Double Shafts

The Parallel Indexer can be mounted on any of six sides. The indexer is also available with double input and/or output shafts.

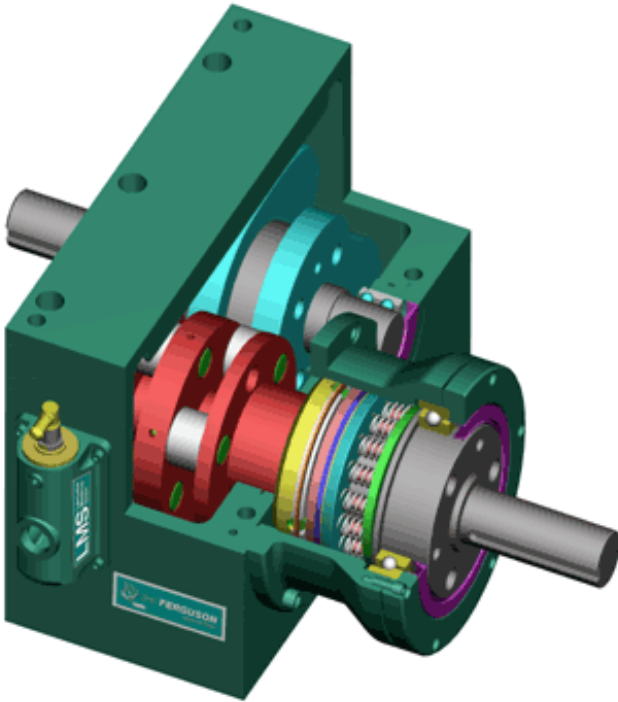
Application Versatility

IMC Parallel Series Index Drives are available in whole or fractional stops in over 1,000 standard and special



motions including Oscillating motions. They provide higher speed and longer linear transfers when compared to other motion devices such as air, hydraulic and geneva mechanisms.

Guardian



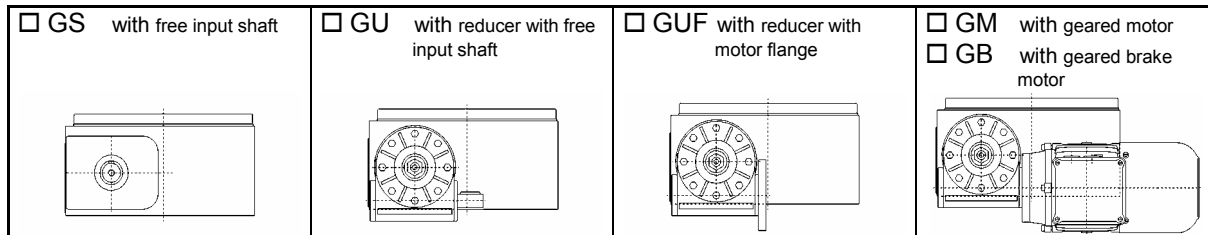
The Guardian Series parallel index drive includes all the features of the **Parallel series** along with an **Internal Torque Limiting Clutch**. The internal clutch provides design and assembly flexibility and reduces critical debugging time. Also ideal for harsh environments.

Applications

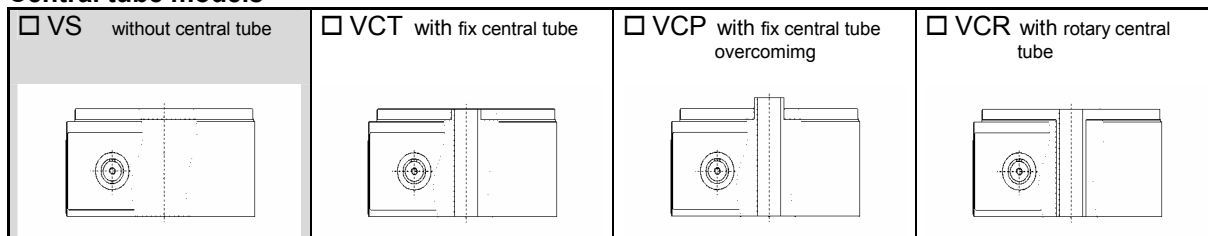
The Guardian Series, with an internal torque-limiting clutch, is ideal for conveyor applications requiring indexing motion as well as for linear motions using crank or oscillating arm attachments.

<p>Plate Cams</p> <p>Popular, economical design used in low speed applications.</p>	
<p>Globoidal Cams</p> <p>Complex, tapered rib globoidal cams, commonly known as roller gear cams, are the heart of IMC's indexers. Controlled follower preloads increase follower life, speeds and accuracy for the ultimate solution in motion control.</p>	
<p>Face-Grooved Cams</p> <p>Medium speed cams utilizing a groove slightly larger than the follower diameter providing minimal running clearance and reduced backlash.</p>	
<p>Conjugate Cams</p> <p>Dual cams controlling preloaded followers which provide higher speed capabilities and better accuracy.</p>	
<p>Barrel Cams</p> <p>Cylindrical cams which can be provided as an end cam, grooved type with minimal follower clearance or as a ribbed type utilizing preloaded followers for increased life and accuracy.</p>	

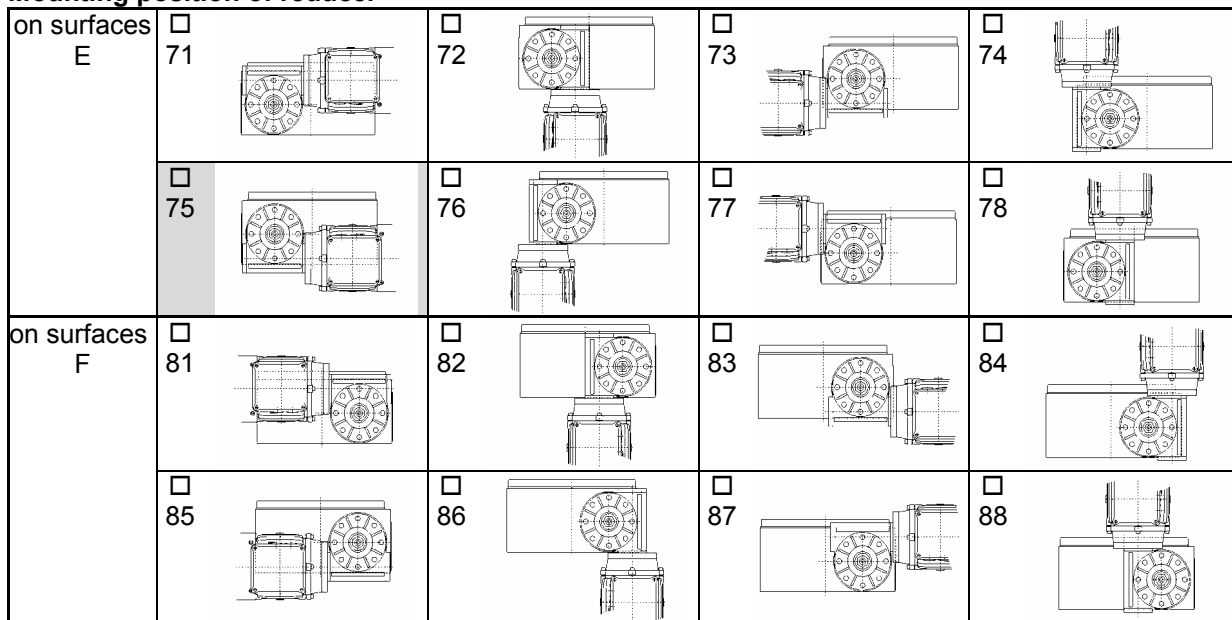
Versions



Central tube models



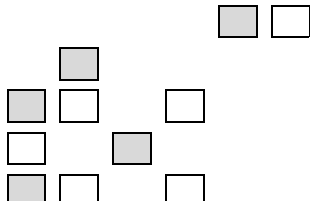
Mounting position of reducer



Surfaces

- 1 surfaces with input shaft
- 2 surfaces with output shaft
- 3 surfaces with fastening bores
- 4 surfaces with oil bores
- 5 lower surface after installation

A B C D E F Preference



- E
- B
- A
- C
- A

