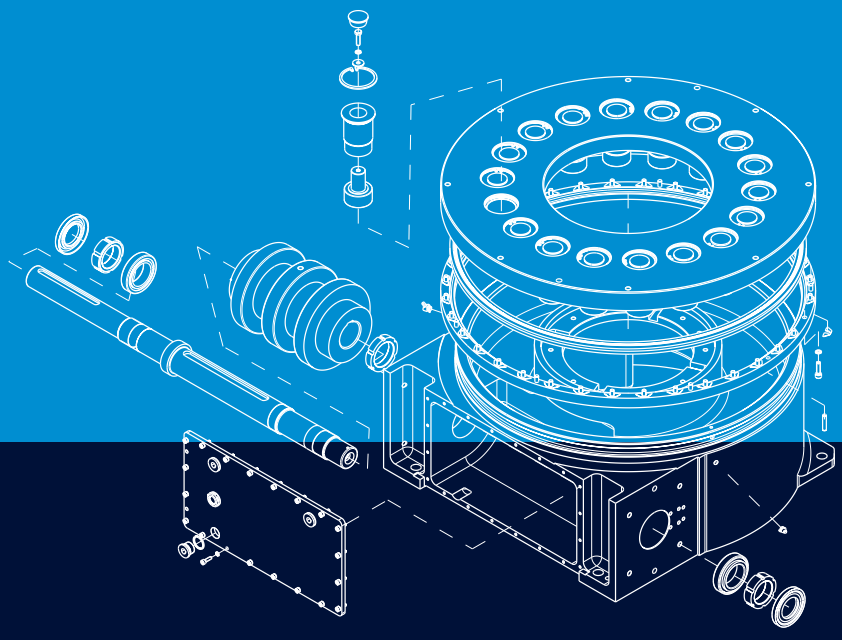
Motion

INDEX DRIVES, INC.



Rotary Index Drives

TMF Series

The New Standard for 100% Flexible Indexing

The TMF Series of index drives was engineered to satisfy the needs of the 21st century industrial manufacturing environment: fast, strong, reliable, high quality and cost effective.

The TMF 3000 features a cast housing that is compact and has all the characteristics a manufacterer looks for: large center thru-hole for running utilities and mounting equipment; very low profile to eliminate the need for large A-frame type tooling or operator riser platforms; and a large rotating diameter for increased mounting surface.

In order to increase the strength of the index table, the TMF 3000 was designed to be a completely flexible solution. This allows for a minimum of 4 oversized cam followers to be engaged with the barrel cam at all times. The indexer is driven directly via a gear motor that can utilize either an AC motor with encoder or servo. Both options provide very high accuracy (less than 10 arc seconds) and allow for the indexer to be driven via a dedicated or robot drive.

Loading capabilities are multiplied significantly in this line of indexers through the design of the barrel cam and cam followers. This unique design allows for unprecedented inertial load capability. The TMF Series also utilizes the same high quality bearing configuration as our standard index drives to ensure high mass loading capabilities.

Contact Motion Index Drives, Inc. to learn more about the benefits of this revolutionary indexing drive.

Main Dimensions	
Diameter output flange	800mm
Overall height (mounting surface dial)	330mm
Center thru-hole	280mm
Maximum recommended swing diameter	4500mm
Load Ratings	
Axial	965,000 N
Radial	454,000 N
Tilting	195,000 Nm

Advantages for design engineers and special machine builders

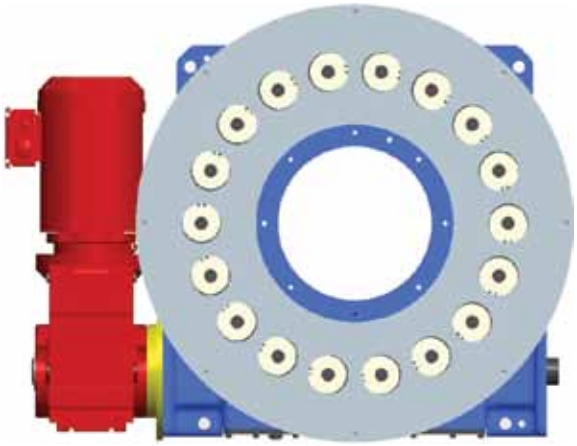
- Large center thru-hole which is large enough to feed entire shafts through, and not just small wiring looms.
- Dowel holes in housing and in output flange
- Recessed center column. No obstruction. Lengthened and machined to customer requirements
- Simultaneously rotating input shaft extension. Optional synchronization of other mechanical modules

Allowance for individual customer requirements

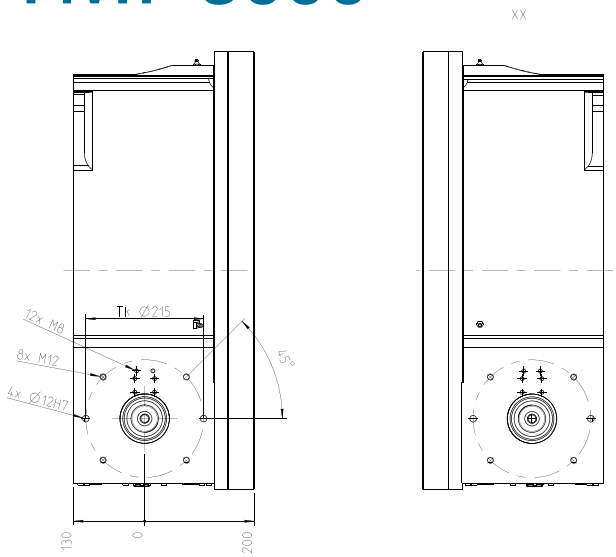
- Choice of drive
- Reinforced output flange bearing for higher tilting moment
- Optional friction clutch on drive
- Custom specified color at no extra charge

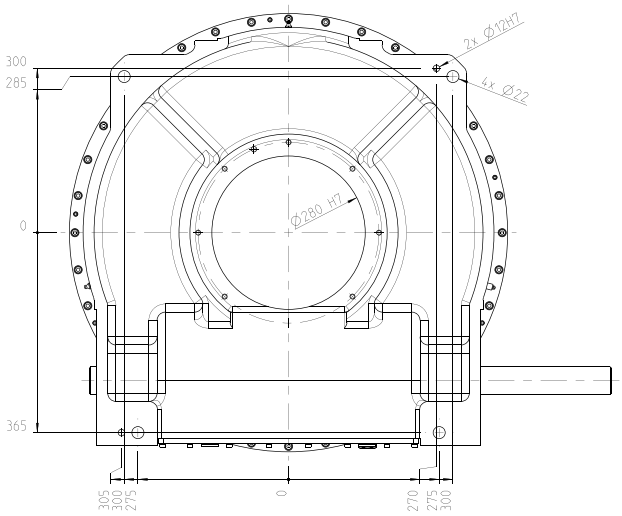
Technical benefits for users

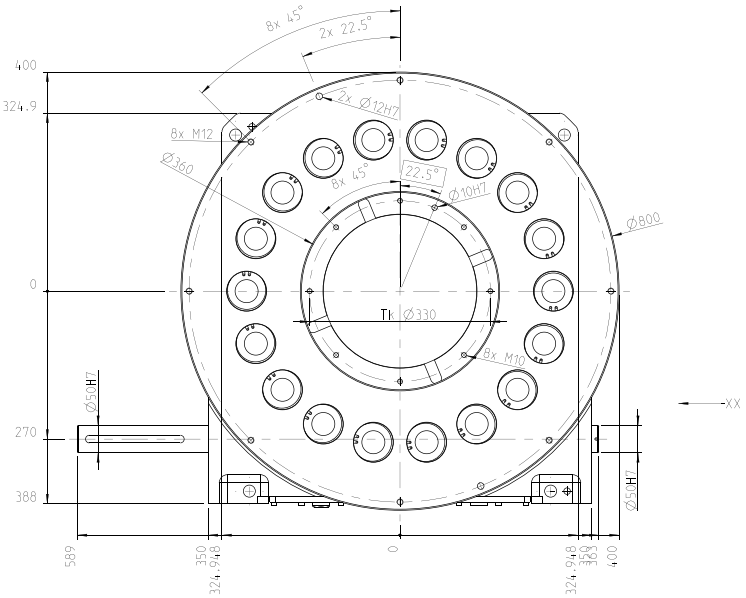
- High reliability and long service life
- Robust method of construction
- Induction-hardened cams: smaller sizes for higher load factors
- Cam followers and roller bearings fully immersed in oil bath

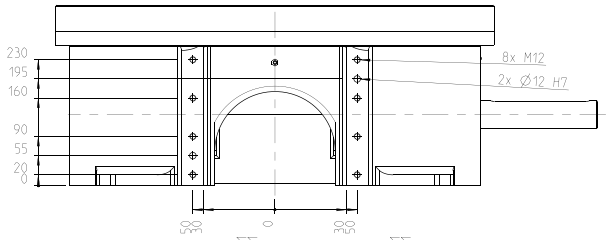


TMF 3000









Dimensions

The dimensions shown here are the standard dimensions. The output flange, central column, housing and input shafts can be machined to your specifications.

The central column can also be designed as a flange.

Should you wish to drill additional holes, please consult us with regard to acceptable drilling depths.

⚠ Caution! Do not drill through.

⚠ Please note that the opening for mounting the drive varies depending on the size of the drive.

Speak With a Motion Engineer

Call 877-866-1677

Motion Index Drives, Inc.
1204 East Maple
Troy, MI 48083