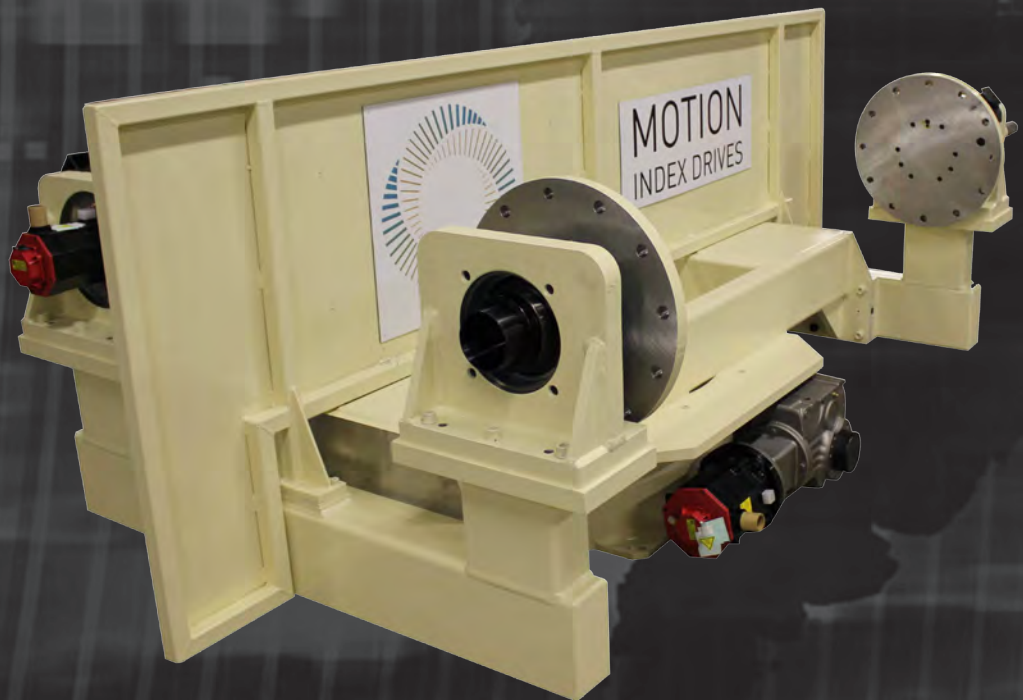




MOTION INDEX DRIVES

Flexible Positioning System
DR-TR Series





MOTION INDEX DRIVES

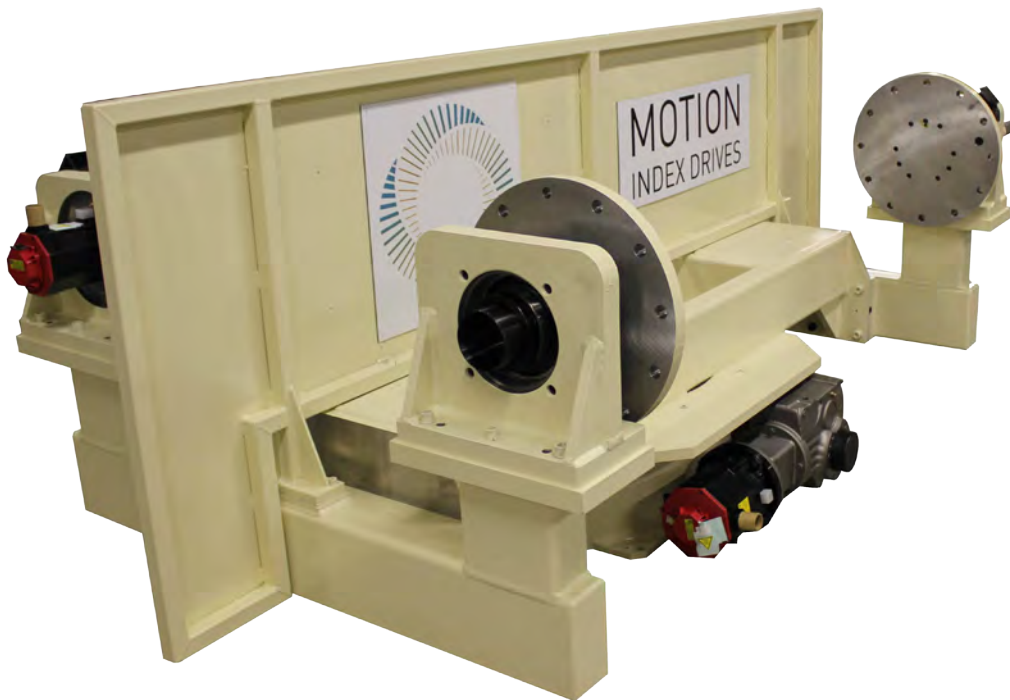
Motion Index Drives DR-TR Trunnion system is a complete 3 axis machine, designed and engineered to provide superior performance in demanding industrial automation environments. The DR-TR System is comprised of a base index drive, which can be either a fixed number of station index drive, or a programmable drive, which rotates a steel weldment. On this weldment are mounted two trunnion assemblies, each consisting of a head stock and tail stock. The system provides a superior accuracy, index time, and flexibility to meet the demands of modern automation systems. As each system is built for our customers needs, all dimensions can be adjusted to fit the application requirement.

Flexible Positioning System

Motion Index Drives programmable index drives all feature extremely high accuracy with high quality manufacturing and oversized components. All programmable index drives feature flame hardened constant lead barrel cams, which provide no backlash between top rotating dial and the cam itself, through the multiple cam followers engaged into the cam at all times. The large number of cam followers engaged in the cam allows for increased inertial loading capabilities along with the ability for very fast index times and very long life. The programmable index tables can be driven with either a 3 phase AC motor with encoder, or with a servo motor of choice. The encoder on the motor provides the position feedback of the index drive, and in many cases, an additional axis for a robot can be used to control the index table while utilizing the same brand servo as the robot. Programmable index tables provide infinite positioning while maintaining the same high quality and reliability of Motion Index Drives traditional fixed index drives.

Key Features and Benefits

- Infinite positioning and index angle is possible
- Multiple oversized cam followers engaged in cam at all times
- Minimal maintenance
- Can utilize any motor required (AC motor with encoder, servo, etc.)
- Range in all sizes of index drives
- Capable of both high speed applications and high load
- Extremely compact relative to inertial load capability



MOTION INDEX DRIVES DRTR DUAL TRUNNION SYSTEMS (All dimensions in mm)					
Assembly Number	Axis 1	Trunnion	Trunnion Ratio	Cl Height	Faceplate Width
TMF3000-TR250-171-750-2000-X	TMF3000	250	171	750	2000
TMF3000-TR250-171-750-2500-X	TMF3000	250	171	750	2500
TMF3000-TR250-171-750-3000-X	TMF3000	250	171	750	3000
TMF3000-TR250-171-900-2000-X	TMF3000	250	171	900	2000
TMF3000-TR250-171-900-2500-X	TMF3000	250	171	900	2500
TMF3000-TR250-171-900-3000-X	TMF3000	250	171	900	3000
TMF3000-TR300-185-750-2000-X	TMF3000	300	185	750	2000
TMF3000-TR300-185-750-2500-X	TMF3000	300	185	750	2500
TMF3000-TR300-185-750-3000-X	TMF3000	300	185	750	3000
TMF3000-TR300-185-900-2000-X	TMF3000	300	185	900	2000
TMF3000-TR300-185-900-2500-X	TMF3000	300	185	900	2500
TMF3000-TR300-185-900-3000-X	TMF3000	300	185	900	3000

TMF3000-TRXXX-XXX-XXX-XXXX
<p style="text-align: center;"> Table Class Trunnion Class Trunnion Ratio Cl Height Faceplate Width </p>

MID Standard Double Trunnion with Kuka Motors (other servo motors can be used)

CLASS	MODEL #	EXCHANGE AXIS MOTOR	EXCHANGE AXIS AMPLIFIER	TRUNNION AXIS MOTORS	TRUNNION AXIS DUAL AMPLIFIER	EXCHANGE 180° INDEX TIME	TRUNNION 180° INDEX TIME	EACH TRUNNION PAYLOAD	MAX TRUNNION ENVELOPE	MAX TRUNNION INERTIA	TRUNNION CENTER-LINE TO FLOOR DISTANCE	DISTANCE BETWEEN FACE PLATES
250	TMF3000-TR250-171-750-2000-X	MG360	KSD64	MG180	KSD32	4.5	2	1000	1400	237	750	2000
	TMF3000-TR250-171-750-2500-X	MG360	KSD64	MG180	KSD32	4.5	2	1000	1400	237	750	2500
	TMF3000-TR250-171-750-3000-X	MG480	KSD64	MG180	KSD32	4.5	2	1000	1400	237	750	3000
	TMF3000-TR250-171-900-2000-X	MG360	KSD64	MG180	KSD32	4.5	2	1000	1400	237	900	2000
	TMF3000-TR250-171-900-2500-X	MG360	KSD64	MG180	KSD32	4.5	2	1000	1400	237	900	2500
	TMF3000-TR250-171-900-3000-X	MG480	KSD64	MG180	KSD32	4.5	2	1000	1400	237	900	3000
300	TMF3000-TR300-185-750-2000-X	MG360	KSD64	MG180	KSD48	5	2	1818	1400	620	750	2000
	TMF3000-TR300-185-750-2500-X	MG360	KSD64	MG180	KSD48	5	2	1818	1400	620	750	2500
	TMF3000-TR300-185-750-3000-X	MG360	KSD64	MG180	KSD48	5	2	1818	1400	620	750	3000
	TMF3000-TR300-185-900-2000-X	MG360	KSD64	MG180	KSD48	5	2	1818	1400	620	900	2000
	TMF3000-TR300-185-900-2500-X	MG360	KSD64	MG180	KSD48	5	2	1818	1400	620	900	2500
	TMF3000-TR300-185-900-3000-X	MG360	KSD64	MG180	KSD48	5	2	1818	1400	620	900	3000

MID Standard Double Trunnion with Fanuc Motors (other servo motors can be used)

250	TMF3000-TR250-171-750-2000-X	A22IF	AISV-80	A8IS	AISV-80/80	4.5	2	1000	1400	237	750	2000
	TMF3000-TR250-171-750-2500-X	A22IF	AISV-80	A8IS	AISV-80/80	4.5	2	1000	1400	237	750	2500
	TMF3000-TR250-171-750-3000-X	A30IF	AISV-80	A8IS	AISV-80/80	4.5	2	1000	1400	237	750	3000
	TMF3000-TR250-171-900-2000-X	A22IF	AISV-80	A8IS	AISV-80/80	4.5	2	1000	1400	237	900	2000
	TMF3000-TR250-171-900-2500-X	A22IF	AISV-80	A8IS	AISV-80/80	4.5	2	1000	1400	237	900	2500
	TMF3000-TR250-171-900-3000-X	A30IF	AISV-80	A8IS	AISV-80/80	4.5	2	1000	1400	237	900	3000
300	TMF3000-TR300-185-750-2000-X	A22IF	AISV-80	A12IS	AISV-80/80	5	2	1818	1400	620	750	2000
	TMF3000-TR300-185-750-2500-X	A22IF	AISV-80	A12IS	AISV-80/80	5	2	1818	1400	620	750	2500
	TMF3000-TR300-185-750-3000-X	A22IF	AISV-80	A12IS	AISV-80/80	5	2	1818	1400	620	750	3000
	TMF3000-TR300-185-900-2000-X	A22IF	AISV-80	A12IS	AISV-80/80	5	2	1818	1400	620	900	2000
	TMF3000-TR300-185-900-2500-X	A22IF	AISV-80	A12IS	AISV-80/80	5	2	1818	1400	620	900	2500
	TMF3000-TR300-185-900-3000-X	A22IF	AISV-80	A12IS	AISV-80/80	5	2	1818	1400	620	900	3000