MOTION
INDEX DRIVES

Since 1970, Motion Index Drives has been engineering high precision rotary indexing tables that have served many industries throughout the world. The RT servo series delivers extremely high accuracy in a compact package by integrating the Emerson line of servo motors and servo drives. This enables our units to be 100% programmable at the same time, making it easy to integrate into our customers automated systems.

The RT servo series comes equipped with an exact gear ratio to avoid an accumulation of positioning errors while operating in a continuous clockwise or counter clockwise rotation.

With 15 arc seconds of accuracy and zero backlash, the RT servo index drive series is one of the most accurate indexers available on the market. Higher accuracy is available upon request,

SUNSOURCE

This package is offered exclusively through Sunsource. Contact your local Sun Source representative or the Sun Source product specialist at 800-482-3886 for further information.
http://www.sun-source.com

MOTION
INDEX DRIVES

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Complete Turnkey Programmable Solution

Features and Benefits Emerson Unimotor

- Compact
- High torque to inertia ratio
- Large shafts for increased torsional rigidity
- Incremental or resolver feedback
- Rotatable low profile connectors
- Optional with brake

Features and Benefits Emerson Digitax ST Drive

- Quick easy set up – Prepopulated movement profiles
- Automatic encoder count roll over
- Auto-tune function
- Ethernet communications standard
- Safe Torque Off/Integrated Motion
- Multiple Communication Protocol Options
- Windows Interface
- Free Software

Features and Benefits RT Series Indexer

- Extremely rigid zero backlash cam system
- Exact ratios for worry free continuous motion applications
- Freely programmable – capable of moving to any index angle
- 4-point contact bearing system to handle high tilting moments
- Accuracy of 15 arc seconds
- Repeatable to 10 arc seconds
- Case hardened cam and cam followers for longevity
- Completely maintenance free – lubed for life
- Larger index tables available

Model	Degree of Rotation	Index Time	Max Swing	Inertia Load	Inertia Mis Match	Static Torque
RT100-067☐DB-020-10-☐☐	36	0.75	35" DIA	12kgm^2	6.32	120 NM
RT100-067☐DB-020-08-☐☐	45	0.75	35" DIA	11kgm^2	5.83	120 NM
RT100-067☐DB-020-06-☐☐	60	0.75	35" DIA	10kgm^2	5.33	120 NM
RT100-067☐DB-020-05-☐☐	72	1.00	35" DIA	9kgm^2	4.84	120 NM
RT100-067☐DB-020-04-☐☐	90	1.00	35" DIA	8kgm^2	4.34	120 NM
RT100-067☐DB-020-03-☐☐	120	1.50	35" DIA	6kgm^2	3.35	120 NM
RT100-067☐DB-020-02-☐☐	180	2.50	35" DIA	5kgm^2	2.85	120 NM

Model	Degree of Rotation	Index Time	Max Swing	Inertia Load	Inertia Mis Match	Static Torque
RT160-067☐DB-020-10-☐☐	36	0.75	52" DIA	19kgm^2	9.80	140 NM
RT160-067☐DB-020-08-☐☐	45	0.75	52" DIA	19kgm^2	9.80	140 NM
RT160-067☐DB-020-06-☐☐	60	0.75	52" DIA	19kgm^2	9.80	140 NM
RT160-067☐DB-020-05-☐☐	72	1.00	52" DIA	16kgm^2	8.31	140 NM
RT160-067☐DB-020-04-☐☐	90	1.00	52" DIA	15kgm^2	7.81	140 NM
RT160-067☐DB-020-03-☐☐	120	1.50	52" DIA	14kgm^2	7.32	140 NM
RT160-067☐DB-020-02-☐☐	180	2.50	52" DIA	12kgm^2	6.32	140 NM

* When mounted as trunnion static torque must be factored in.

Model	Degree of Rotation	Index Time	Max Swing	Inertia Load	Inertia Mis Match	Static Torque
RT200-089☐DC-039-10-☐☐	36	0.75	72" DIA	90kgm^2	2.63	160 NM
RT200-089☐DC-039-08-☐☐	45	1.00	72" DIA	110kgm^2	3.19	160 NM
RT200-089☐DC-039-06-☐☐	60	1.00	72" DIA	100kgm^2	2.91	160 NM
RT200-089☐DC-039-05-☐☐	72	1.35	72" DIA	110kgm^2	3.19	160 NM
RT200-089☐DC-039-04-☐☐	90	1.50	72" DIA	100kgm^2	2.91	160 NM
RT200-089☐DC-039-03-☐☐	120	3.00	72" DIA	130kgm^2	6.42	160 NM
RT200-089☐DC-039-02-☐☐	180	3.50	72" DIA	150kgm^2	4.31	160 NM

☐ E - 230
U - 480

☐☐ Cable Lengths:
03 - meter length
05 - meter length
10 - meter length
15 - meter length
20 - meter length

Ordering Example: RT100-067E DB-020-10-03
*110V and 230V Single phase options are available.

* All index times and inertia loads in chart are based on majority of application requirements. If your application does not fall within the standard chart above, a Sun Source or Motion Index Drives engineer will review the application requirements and make appropriate recommendations.