



NEWSLETTER

Special points of interest:

- ELEVATING ROTARY INDEXING TABLES
- SEALED INDEXERS
- GEN-2 SOFTWARE
- LARGE DIAMETER INDEXERS FOR AUTOMATED ASSEMBLY



ELEVATING ROTARY INDEXING TABLES

Centricity is pleased to announce its' new line of elevating rotary indexing tables. These highly flexible indexers can "raise—index—lower" over critical tooling.

Utilizing a series of guided rods to maintain indexer position, the pneumatic lift mechanism is integrated directly into the indexing table assembly. The ability to clear tooling or other ancillary equipment is easily achieved, thereby removing previous design limitations in elevation.

As with all *MS SERIES INDEXERS*, motion control is right at your fingertips through the supplied "touch screen pendant". Move time, dwell time, number of stops, torque limiting, home set, dynamic home adjust, and other features come standard.

The elevating indexer comes mounted in a steel fabricated machine base, and includes motor-drive-LED keypad. Dial plates available upon request.

CENTRICITY CORP.

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Sequels are rarely better than the original. But in the case of Centricity's newly released GEN-2 indexer control software, it's just not so. Read about all the new features of this expanded control package on page-3.



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NOW THAT'S SEALED !

Shot blasting is a tough environment for any type of industrial equipment, let alone a programmable indexer. But Centricity is up to the challenge.

This indexer was produced for a California company, and is subjected to just such an environment. Through a combination of external sealing and positive pressurization of the indexer base, air-borne contaminants entering the indexer chassis were all but eliminated. To allow for full motion profiling of the shot blast operation, the indexer was also networked via Profibus communications.

Centricity offers sealed versions of its' standard line of servo indexers and custom rotary tables as well as wash-down and explosion-proof versions.

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GEN-2 SOFTWARE

With the release of Centricity's new GEN-2 indexer control software for its MS Series Servo Indexers and Accuring Rotary Tables, an unmatched level of features and performance for indexing and continuous rotation applications is available.

With the introduction of GEN-2, simple indexer setup and configuration are done right from the touch screen. All commands are in simple English and there is no programming required. Some of the new features of this software release are;

- Individual electronic torque control for motion and dwell
- Dynamic home adjust for precise fine tuning of the home position even while the indexer is running
- Advanced recovery routines with eight selectable motion sequences to restore indexer position following a jam or fault
- Teach mode to provide a simple means of defining an executable sequence of positions by simply jogging or moving the indexer
- Fieldbus capabilities providing access to all indexer functions over popular high-speed communication protocols such as Ethernet, DeviceNet, Profibus, Modbus RTU, etc
- Touch screen displayed help screens for User convenience

GEN-2 software is part of Centricity's Drive/Control Package that includes the servomotor, digital AC servo controller, absolute position feedback, and touch screen pendant.

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LARGE DIAMETER INDEXERS FOR AUTOMATED ASSEMBLY

When a Midwestern manufacturer of filter assemblies needed twin large diameter rotary indexing tables, they contacted Centricity Corporation. With Centricity's experience in building large diameter and high weight capacity rotary indexers, a solution was quickly developed.

The rotary tables were driven by Centricity's Model MS2523G programmable indexer mounted in a fabricated steel machine base. The indexers included Centricity's "Operator Configurable" touch screen pendant, absolute position feedback, integrated power-off brake, and a large secondary external bearing to provide support for the cantilevered dial plate assemblies.

Fabricated 15' diameter dial plates were constructed utilizing a combination of precision ground steel plates, aluminum spokes, and ground aluminum mounting plates for mounting of Centricity supplied fixtures. Design and construction of the dials permitted ease of disassembly for shipping, and simple on-site reassembly with assistance provided by Centricity personnel.

Several standard touch screen features were utilized in the application including; single station indexing - multiple station indexing - and skip station indexing. These coupled with the touch screen selectable advanced fault recovery routines, made the installation truly "plug and play".

Performance specifications for flatness, move time of 1-1/4 seconds for 15 degrees, and repeatability of +/- 0.010" at a 13.75' fixture mounting diameter were all exceeded.

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