Custom Rotary Tables & Systems
Servo Indexers
Rotary Pick-to-Light
Linear Conveyors
Rotary Platforms
I.D. Parts Feeding Systems
Linear Servo Systems
Servo Indexers
Servo Indexers
Custom Rotary Tables	and Systems
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Custom Rotary Tables
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The EZ Indexer™ Servo Indexers are high precision indexing machines designed to be low cost without sacrificing flexibility. They are ideally suited for higher inertia applications that require superior accuracy and high torque.

Unlike traditional servo indexing systems, the EZ Indexer™ has been designed as an “off-the-shelf” indexing solution. It offers the most popular features of servo indexing at a price that competes head-on with mechanical indexers.

The ability to set the number of stops, direction of rotation, move time, precisely set the home position, electronic torque limiting, and other features provide servo indexing flexibility previously not available at this price and level of simplicity.

The EZ Indexer™ is a complete indexing package that includes the rotary chassis with all position mounting, servomotor with digital AC servo controller, absolute position feedback, 5M power and encoder cables, and i-series software that runs on your laptop in a simple to use Microsoft Excel® spreadsheet. The spreadsheet is comprised of radio buttons and drop down boxes providing quick configuration of the indexer. There is no programming experience required, and unlike traditional servo applications...there is no tuning required.

### OVERVIEW

**Number of sizes**

- **EZ2000 INDEXER**: 8
- **EZ2500 INDEXER**: 24
- **EZ4000 INDEXER**: 6
- **EZ4500 INDEXER**: 18

**Output Torque Range**

- **EZ2000 INDEXER**: 1,000 to 78,000
- **EZ2500 INDEXER**: 1,000 to 78,000
- **EZ4000 INDEXER**: 1,700 to 55,000
- **EZ4500 INDEXER**: 28,000 to 44,600

**Load Capacity**

- **EZ2000 INDEXER**: Up to 5,500
- **EZ2500 INDEXER**: Up to 42,000
- **EZ4000 INDEXER**: Up to 6,500
- **EZ4500 INDEXER**: Up to 42,000

**Thru Bore**

- **EZ2000 INDEXER**: In
- **EZ2500 INDEXER**: In
- **EZ4000 INDEXER**: In
- **EZ4500 INDEXER**: In

**Motions**

- **Indexing Stops**: 1-63
- **Reciprocating**: Yes
- **Continuous**: Yes

**Repeatability**

- **EZ2000 INDEXER**: < 30 Arc Seconds
- **EZ2500 INDEXER**: < 30 Arc Seconds
- **EZ4000 INDEXER**: < 30 Arc Seconds
- **EZ4500 INDEXER**: < 30 Arc Seconds

**Electronic Torque Limiting**

- **EZ2000 INDEXER**: 1-100%
- **EZ2500 INDEXER**: 1-100%
- **EZ4000 INDEXER**: 1-100%
- **EZ4500 INDEXER**: 1-100%

**Configurability**

- **Type**: Microsoft Excel®
- **EZ2000 INDEXER**: Discreet I/O
- **EZ2500 INDEXER**: Discreet I/O
- **EZ4000 INDEXER**: Discreet I/O
- **EZ4500 INDEXER**: Discreet I/O

**Communication**

- **EZ2000 INDEXER**: 24VDC In-Out
- **EZ2500 INDEXER**: 24VDC In-Out
- **EZ4000 INDEXER**: 24VDC In-Out
- **EZ4500 INDEXER**: 24VDC In-Out

**Voltage**

- **EZ2000 INDEXER**: 100VAC, Single Phase
- **EZ2500 INDEXER**: 200VAC, Single Phase
- **EZ4000 INDEXER**: 200VAC, Single Phase
- **EZ4500 INDEXER**: 100VAC, Single Phase

For specifications and downloadable drawings in IGES, STEP, DXF, and PDF formats, please visit our website at http://www.centricity.net.

25 S State Street • Girard, OH 44420 • Tel: (330) 545-5624 • Fax: (330) 545-6749 • www.centricity.net
The MS Series™ indexer is a high precision, highly flexible servo indexer designed to work directly with today's PLC or PC control systems.

Available in four standard models and dozens of sizes, the simple to install MS Series™ can handle loads from grams up to tens of thousands of pounds, with dial diameters from 8" to over 240". MS Series™ indexers can be fitted with brakes, secondary gear sets, dial plates, and machine bases.

All MS Series™ Indexers are available with Centricity's highly flexible GEN-3 Drive/Control Package. This package includes the servomotor, digital AC servo controller with multiple field bus capabilities (networking), touch screen pendant (no programming required), absolute position feedback and GEN-3 software.

GEN-3 software contains simple to use functions such as dynamic home adjust, extensive fault recovery routines, simple indexer, spin, reciprocating and teach mode set-up, selectable motion smoothers, move and dwell torque functions, configurable user output(s), and many others.

Contact Centricity for detailed info on the GEN-3 Drive/Control Package.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>UNITS</th>
<th>MS2000 INDEXER</th>
<th>MS2500 INDEXER</th>
<th>MS4000 INDEXER</th>
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</tr>
</thead>
<tbody>
<tr>
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<td>--</td>
<td>8</td>
<td>24</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
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<td>--</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Continuous</td>
<td>--</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Teach</td>
<td>--</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Repeatability</td>
<td>+/- Arc Seconds</td>
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<td>&lt; 30</td>
<td>&lt; 30</td>
<td>&lt; 30</td>
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<tr>
<td>Electronic Torque Limiting</td>
<td>Percent</td>
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<td>1-100</td>
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<tr>
<td>Configurability</td>
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<td>Touch Screen included</td>
<td>Touch Screen included</td>
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<tr>
<td>Communication</td>
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<td>Discreet I/O 24VDC In-Out</td>
<td>Discreet I/O 24VDC In-Out</td>
<td>Discreet I/O 24VDC In-Out</td>
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<tr>
<td>Voltage</td>
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<td>100VAC, Single Phase 200VAC, Single Phase 200VAC, Three Phase 400VAC, Three Phase</td>
<td>100VAC, Single Phase 200VAC, Single Phase 200VAC, Three Phase 400VAC, Three Phase</td>
<td>100VAC, Single Phase 200VAC, Single Phase 200VAC, Three Phase 400VAC, Three Phase</td>
<td>100VAC, Single Phase 200VAC, Single Phase 200VAC, Three Phase 400VAC, Three Phase</td>
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</tbody>
</table>
Centricity’s DL Series™ Servo Indexers are constructed of stainless steel with Viton seals to provide IP68 protection. They are dust tight and protect against continuous submersion in water and other fluids up to one meter.

The DL Series™ is designed to work with today’s PC and PLC systems and offers the most popular features of servo indexing including indexing, reciprocating, and continuous motion, clockwise or counter clockwise rotation, adjustable move time, electronic torque limiting, and other features that provide outstanding servo indexing flexibility.

The DL Series™ is a complete servo indexing package including the rotary chassis, servomotor with digital AC servo controller, position feedback, and cables. Available with Centricity’s i-series or GEN-3 control packages, both in simple English with no programming experience necessary. Unlike traditional servo applications no tuning is required.

The DL Series™ is available in eight sizes with load capacities up to 5,500 pounds.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>UNITS</th>
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<tbody>
<tr>
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<td>1,000-78,000</td>
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<tr>
<td>Load Capacity</td>
<td>Lbs</td>
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<td>Up to 5,500</td>
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<tr>
<td>Thru Bore</td>
<td>In</td>
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<td>0</td>
</tr>
<tr>
<td>Motions</td>
<td></td>
<td>1-63</td>
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<tr>
<td>Indexing Stops</td>
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</tr>
<tr>
<td>Reciprocating</td>
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<tr>
<td>Continuous</td>
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<td>Teach</td>
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<tr>
<td>Repeatability</td>
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<tr>
<td>Electronic Torque Limiting</td>
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</tr>
<tr>
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<td>Type</td>
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<td>Voltage</td>
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<tr>
<td></td>
<td></td>
<td>400VAC, Three Phase</td>
<td>400VAC, Three Phase</td>
</tr>
</tbody>
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25 S State Street • Girard, OH 44420 • Tel: (330) 545-5624 • Fax: (330) 545-6749 • www.centricity.net
OVERVIEW
AccuRing™ Rotary Tables represent the ultimate in rotational flexibility. Each AccuRing™ is custom designed to meet your exacting specifications, and there are virtually no limits to the creativity of these products.

Drive systems can vary from electric to pneumatic to hydraulic. Center-driven to very large open-centers are available.

AccuRing™ Rotary Tables can be mounted horizontally, vertically, or even inverted. Custom bases with ancillary mounting surfaces, dial plates manufactured from aluminum, steel, stainless steel, or phenolic resins can complete your AccuRing™. Large dial plates are designed to ship standard freight with easy “in-the-field” set-up.

If your application requires a “special” rotary indexing or continuous rotation device, the AccuRing™ can be the answer you’re looking for.

TYPICAL OPTIONS
- Multi-Circuit Slip Rings
- Multi-Passage Rotary Unions
- Shot Pins
- Vacuum Hold-down on Dial
- Custom Fixturing on Dial
- Under Dial Support for Pressing Operations
- Elevating Dial
- Sealed/Air Purged
- Explosion-Proof
- Wash Down
- Fail Safe Brakes and High Speed Spin
- Available with i-series or GEN-3 Servo Control Package
- Extensive Field Bus Capabilities for Networking DeviceNet, Modbus, Profibus, Ethernet, etc.
- Configurable I/O when used w/ GEN-3 Package

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25 S State Street • Girard, OH 44420 • Tel: (330) 545-5624 • Fax: (330) 545-6749 • www.centricity.net
The EZ Flex™ line of servo powered linear positioning and conveying systems are high precision in-line belted systems powered by Centricity’s MS Series™ Servo Indexer providing the ultimate in flexibility at affordable prices.

The highly repeatable EZ Flex™ comes complete in standard lengths or can be built to your requirements. Belts are available in a variety of materials with bolt-on or welded-on tooling made to your specifications. Easy to use touch screen pendant requires no programming experience. Features include adjustable move time, dynamic home adjustment, electronic torque limiting, and bi-directional motion profiles including indexing, reciprocating, continuous, and teach mode.

Modular construction of the EZ Flex™ provides for simple mechanical and electrical installation. Ancillary equipment can even be mounted on the sides of the center beam.

The AUTOTURN™ line of powered and non-powered large diameter high capacity rotary platforms are ideally suited for commercial, industrial, and residential applications where the rotating of large loads is required.

Non-powered AUTOTURN™ rotary platforms are designed for human powered rotation where utilities are not available or desirable. The low-profile design has an overall height of less than 3”, and above ground installation is simple. The modular design of the platforms ship standard freight for diameters exceeding 25’.

Powered AUTOTURN™ rotary platforms are designed with drive systems based upon the loads and speeds required by the application. Drive systems are available in 100V, 200V, and 400V packages, and can include an optional Remote Operation feature.
OVERVIEW

Feedscape™ technology represents a radical departure from the traditional method of handling parts through contact with their outside surfaces, to handling parts on their I.D. This seemingly simple change in approach results in significant advantages and design possibilities.

The Patented Feedscape™ System is comprised of a tooling rod secured by a series of alternating jaws. Parts loaded on the tooling rod through their I.D. are free to travel down the rod as the jaws open and close. This technology maintains control of the parts at all times. There’s no chance of parts flipping over, shingling, or falling off.

Vibratory in-line tracks, that are the major cause of part feeding problems, are eliminated. Tooling is less expensive to manufacture and significantly more flexible than “in-line” styles. One set of tooling can often be used for a family of parts requiring only a similar I.D. Part jams are dramatically reduced and simpler to clear than with conventional tooling. Ordinary part-to-part variation has no effect on performance. All external surfaces of the part are exposed and, therefore, available for additional operations such as inspection, gauging, and many others.

OVERVIEW

The PacePro™ combines pick-to-light parts picking technology with Centricity’s servo indexer know-how. This unique rotary based pick-to-light system is designed to eliminate operator travel time, sustain process pace, and error-proof kit building and parts picking.

In its typical 60” diameter footprint, the PacePro™ can be configured for up to 54 shelves with 24 dividers, resulting in as many as 1,296 discreet locations.

Once the system is loaded, the PacePro™ will rotate to present the proper column of parts to the operator. A green light indicates the correct bin to pick from and the quantity. After picking, the PacePro™ automatically indicates the next part to pick. Should an incorrect pick be attempted, the green light changes to red and an audible alarm sounds identifying an attempted incorrect pick. Extensive data on picked parts can be stored within the PacePro™ and can be accessed via an optional Ethernet connection and report generator, to aid in optimizing the process and maximizing throughput.

In addition to increased productivity, the PacePro™ will reduce picking errors, minimize operator training, save floor space, provide real-time information, and make your process more competitive. The PacePro™ is supplied fully assembled and ready to use. Just set it in place, adjust the leveling feet, and plug it into a standard 115V outlet. You can enter your pick list via Ethernet or simply plug in your laptop. It is that simple and there is nothing else to buy.
Centricity Corporation, a leading manufacturer of precision servo index drives, custom rotary tables, rotary carousels, linear conveyors, rotary platforms and I.D. parts feeding systems, was founded 1992 in Girard, OH. Our company was founded by engineers skilled in the design and construction of factory automation systems.

The Centricity product line was developed to simplify the complexities of factory automation with “plug and play” features providing flexibility and control for the most complex and demanding applications. Over 25 years of automation experience is built into every EZ Indexer™, MS Series™ and DL Series™ Servo Indexers, AccuRing™ Rotary Table, PacePro™ Rotary Pick-to-Light System, EZ-Flex™ Linear Conveyors, AutoTurn™ Rotary Platforms, and FeedScape™ Parts Feeding System.

Centricity's greatest asset is that we speak your language. Our history as designers and builders of automation equipment has provided the expertise to understand the challenges that you face and more importantly to enable you to realize your automation objectives.

We have worked with many premier companies including Northrop Grumman, The Hoover Company, U.S. Postal Service, Oak Ridge National Laboratory, The Swagelok Company, American General, Hoffman Enclosures, Harley Davidson, as well as many others to solve a variety of challenging problems.

We work extensively with machine builders, OEMs, and end users in automotive, aerospace, pharmaceutical, medical, food processing, packaging, electronics, as well as many other industries. Centricity has the products and experience to make your design life a little easier. We thrive on difficult applications and have provided solutions for welding, painting, dispensing, assembly, waterjet cutting, stamping, and many other processes. Centricity's highly trained staff of design engineers, electrical engineers, application engineers, and sales engineers will assist you in selecting the best indexing or parts feeding system solution for your machine design. Proprietary products and software as well as state of the art 3D design ensure that the system selected meets your requirements for accuracy, speed, load capacity, and life expectancy.

From conventional to complex, Centricity will work hand in hand with you to provide the best possible solution.