



NEWSLETTER

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WHEN "OFF-THE-SHELF"

JUST DOESN'T DO IT!



Wouldn't design life be easy if every machine used standard components. Go on-line, download a model, and move on. Unfortunately the automation world just doesn't work that way. No sooner do you think you have a solution, and the rules change. So now what?

Give us a call! Centricity has built a reputation for providing "out of the box" indexing and rotary table solutions. Whether you need low profile, hazardous area, networked, washdown, sealed, vertical or inverted mounting, slip rings and rotary unions, or any other requirements. Load capacities from ounces to the tens of thousands of pounds, diameters from inches to over 40 feet.

Visit www.centricity.net to learn more about our products and engineering calculators, or call Centricity's staff of engineers to help assist you.

CENTRICITY CORP.

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Let Centricity help make your design a reality.



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HAZARDOUS AREA INDEXER WITH DEVICENET CAPABILITIES

One means of protection used in hazardous areas is to ensure that the interior of an electrical enclosure is free of flammable material. Pressurization is generally used for electrical equipment that cannot be protected by other means, either because it is too large to be made explosion-proof, or too high powered to use intrinsic safety.

The application pictured above is an inspection operation with a 0.31 second cycle time in a Class II, Div I, Group E,F,G hazardous area.

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Centricity's solution was an MS2000A servo indexer supplied in a sealed pedestal with integrated pressure and temperature monitoring. The 480V motor, motor drive with DeviceNet capabilities, and touch screen pendant were all enclosed in the sealed pedestal.



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FURNITURE INVERTER

When assembling custom chairs, much of the work including mounting of the legs is done from the underside. Typically chairs are assembled in their upright position then manually “flipped” over 180 degrees to permit for underside assembly. The weight and geometry of the chairs made this task both cumbersome and tiring. To complicate matters, the chairs are made in a number of leg lengths and seat configurations.

Centricity’s solution was a vertically mounted MS2000 Series servo indexer with a custom floor mounted base. Included was an integrated pneumatic clamping fixture for applying pressure to the chair seat to secure it while flipping. The fixture was designed to accommodate a wide variety of seat configurations and thicknesses with no changeover.

The simplified process was to manually slide the chair into the clamping fixture in its upright position. The clamping fixture then secures the chair seat and the inverter flips the chair 180 degrees presenting the underside for assembly. Following completion of assembly the inverter returns the chair 180 degrees to its original orientation and the clamping fixture release. The chair is easily slid off the fixture and moved down the assembly process.

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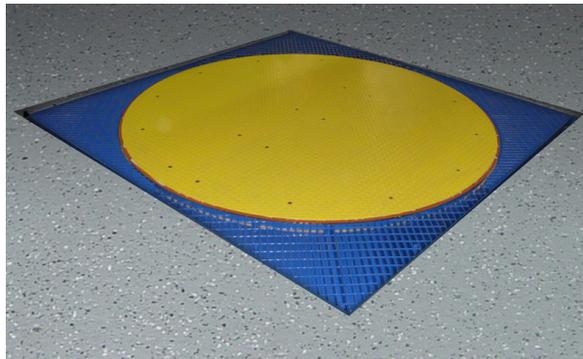
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**PIT MOUNTED
HIGH CAPACITY
TURNTABLE**

Designing a turntable with a 4,000 pound dynamic load capacity and a 30,000 static load capacity in a 14" overall height is not an easy task. The requirements of this application were that the top surface of the turntable be flush with the top surface of the surrounding floor and capable of withstanding daily vehicle traffic when not in use. When used, the turntable would rotate bi-directionally at a variable speed of 1-2 rpm. The main enclosure of the turntable served as a form for the concrete grout fill around the exterior and removable fabricated steel tread plates were included in the design.

Centricity's solution was a custom designed AccuRing Rotary Table meeting all the requirements of height, capacity, and installation. Dynamic seals were used to prevent small objects from falling into the pit, and a manually releasing hand-release mechanism was added to the integrated brake.

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