Revolutionary Design of All Electric Cappers Utilizing Linmot Rotary/Linear Solutions

REVERE ELECTRIC SUPPLY CO.
Messenger of Service

LinMot®

CENTRAL MACHINES, INC.
YOUR AUTOMATION CONNECTION

CASE STUDY

Central Machines, Inc. specializes in the design and construction of in-line, rotary, indexing, continuous motion, power/free, lining, cap closing and contact insertion process equipment. One of their specialties is mechanical capping machines. Recently, a unique application came along where it would have been very complicated and considered a high risk to use their typical style mechanical machine - due to certain requirements and unknowns with this particular application.

Revere recently presented a new linear / rotary servo package from LinMot to Central Machines. After reviewing the application with Revere and LinMot, Central decided to develop a proposal and machine concept using this technology because of the flexibility it offered; as well as the significant risk reduction it provided due to that flexibility.

Once the vision and the approach was determined, Revere, LinMot and Central Machines collaborated to produce a design for the mechanical capping machine that:

- **Simplified** the design by using LinMot Linear/Rotary servos instead of a more parts orientated design
- **Created** flexibility that now allows them to make changes, based on customer demands, later in the build process
- **Measures** the capping torque for each cap closure; allowing for 100% correct rejects
- **Determined** quality control problems that could be eliminated downstream
- **Detects** out of round parts and performs color checks
- **Produces** significant increase in throughput

CHALLENGE

Create a mechanical machine design solution that allows for changes to be made throughout the build

SOLUTION

- Linmot Linear/Rotary technology

RESULTS

- Flexibility in the design/build process
- Reduced downtime due to less mechanical parts failure
- Remote monitoring and troubleshooting
- Production rate increase of 50%

Revere Electric Supply prides itself on providing innovative, value-add solutions to OEM's, End Users, System Integrators, and Contractors. Since 1919, our commitment to listening, adapting, and developing custom solutions based on the needs of our customers has made us a market "leader" in the electrical industry.

To achieve a successful all electric capping machine to Central Machines, Revere Electric supply provided the following:

- Distributor/Manufacturer/Customer team collaboration toward a strategic design objective
- Engineering resources with servo and PLC experience to assist customer's design team
- Product training prior to installation
- Future training and support for Central Machines and their customers

For more information regarding Central Machines, please contact Peter Kendler at pkendler@centralmachines.com. To learn how Revere Electric Supply can help you with your next project or application, contact us directly.