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Examples of Industries Served

- Centrifuge Manufacturers
- Pellet Mill Manufacturers
- Heavy Machine Manufacturers
- Irrigation Equipment Manufacturers
- Tool and Die Manufacturers
- Food Service Companies
- Medical Equipment Manufacturers
- Medical Researchers



Case Study

Opportunity:

One of Controlled Motions Dynamics' customers needed help with supplying the power, speed, and accuracy to effectively push a rubber bushing into an automotive shock absorber. The manufacturer had a machine for this process already in place; however, the pneumatic cylinder utilized did not produce the desired consistency because of the compressibility of the air when pressing in the bushing.

The customer had imagined a solution that would be "all electric," yet CMDI technicians came up with the best solution for the customer.

Solution:

CMDI devised a solution that combined hydraulics with electronics to maximize the customer's consistency in production.

- Hydraulic power unit
 - Accumulator for the high cycle speed (0.8 sec total cycle time for four cylinders)



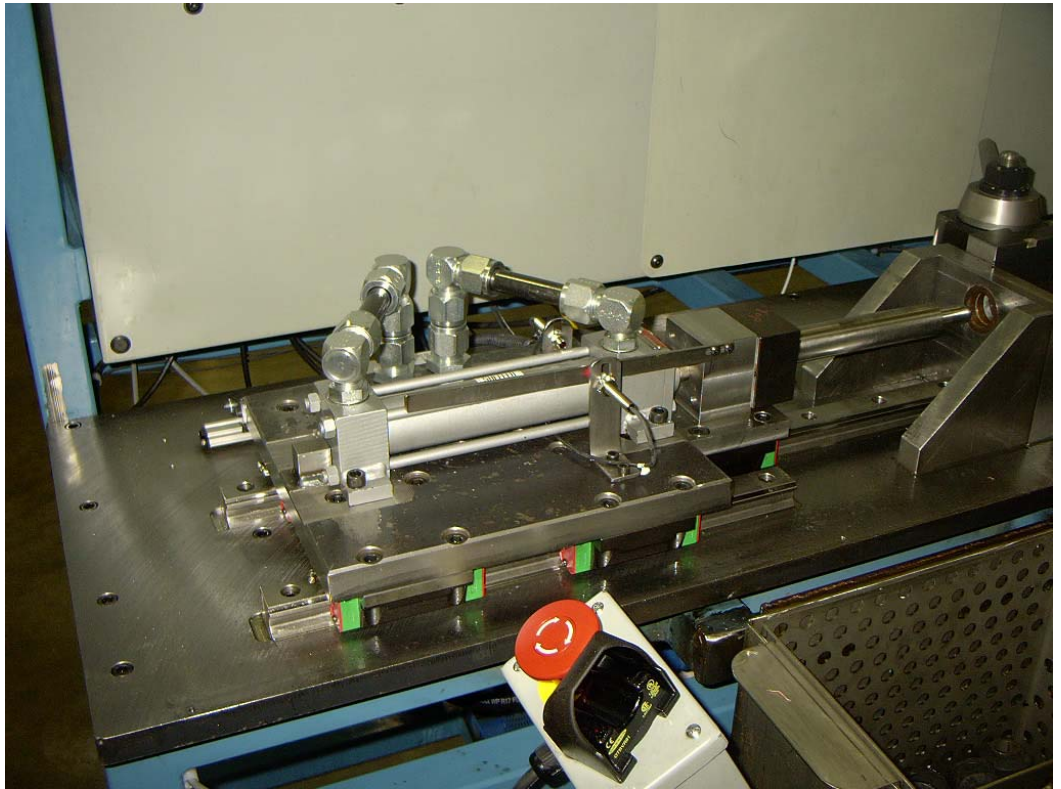
Completed machine

- Combined with electrical controls package
- And an operator interface touch screen

CMDI designed the concept and built the first prototype machine. The machine surpassed the customer's expectations for performance. CMDI professionals provide exceptional service and individualized designs to solve

automation problems.

As a systems integrator, Controlled Motions are not limited in creating solutions because they utilize electric, hydraulic or pneumatic technology, based on providing the proper solution for the customer's project and budget.



Insertion cylinder

The “push back,” which resets the bushing

