

**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:**

A major candy manufacturer contacted Controlled Motion Dynamics about an important motion control problem.

The customer had an Aasted Mikroverk type FCT depositor that had failed. The machine used three three-axis servo drives to control three depositors. The three-axis servo drive for the center depositor had failed. The part was obsolete, so no replacement could be found.

The candy manufacturer needed a solution that would stay as close as possible to the original operation. The customer asked that all existing menus be retained. The goal was to create a change that would be as seamless as possible to the operators.



**Solution:**



- Controlled Motion Dynamics converted the existing program to the Baldor Mint language.
- A Next Move BX II three-axis controller was selected to replace the obsolete controller.
- A new keypad with CAN communication was selected to replace the serial keypad.
- The chain resolver was replaced with an encoder.
- Using the original prints, a conversion print was drawn up to assist the maintenance technician in wiring the new controller into the existing system.

During start-up, a way to increase the depositor speed was discovered. The customer was pleasantly surprised by this and decided to make this a permanent change.

Since the operation had not changed, no training was needed for the operators or set up people. Controlled Motion Dynamics conducted training for the maintenance technicians in the new equipment and program.

Controlled Motion Dynamics has since replaced another depositor controller for this customer and assembled a replacement kit consisting of all parts, programming and prints needed for the depositor controls.



*Keypad design*