



Live Fish Packing Machine



Client: Dan's Fish LLC

Project Description:

The purpose of this project is to design and build an automated machine for Dan's Fish LLC in Sheridan, Wyoming, to replace the current manual bagging process. The Live Fish Packaging Machine (LFPM) will automate bagging and sealing to achieve a ten-second cycle time while ensuring safe handling for both fish and operators.

Design Requirements:

1. 4-mil PA/PE bag (5.5 in × 4.0 in)
2. Bag has rounded corners
3. Bag filled with fish, water, and oxygen
4. Double bagged
5. 10 second cycle

System Operation:

1. Film is fed through rollers and funnels
2. Two bags are created simultaneously
3. Bag 1 is filled with water, oxygen, and fish
4. Bag 1 is sealed and guided into bag 2
5. Bag 2 is sealed and guided into storage

Overall Design Approach:

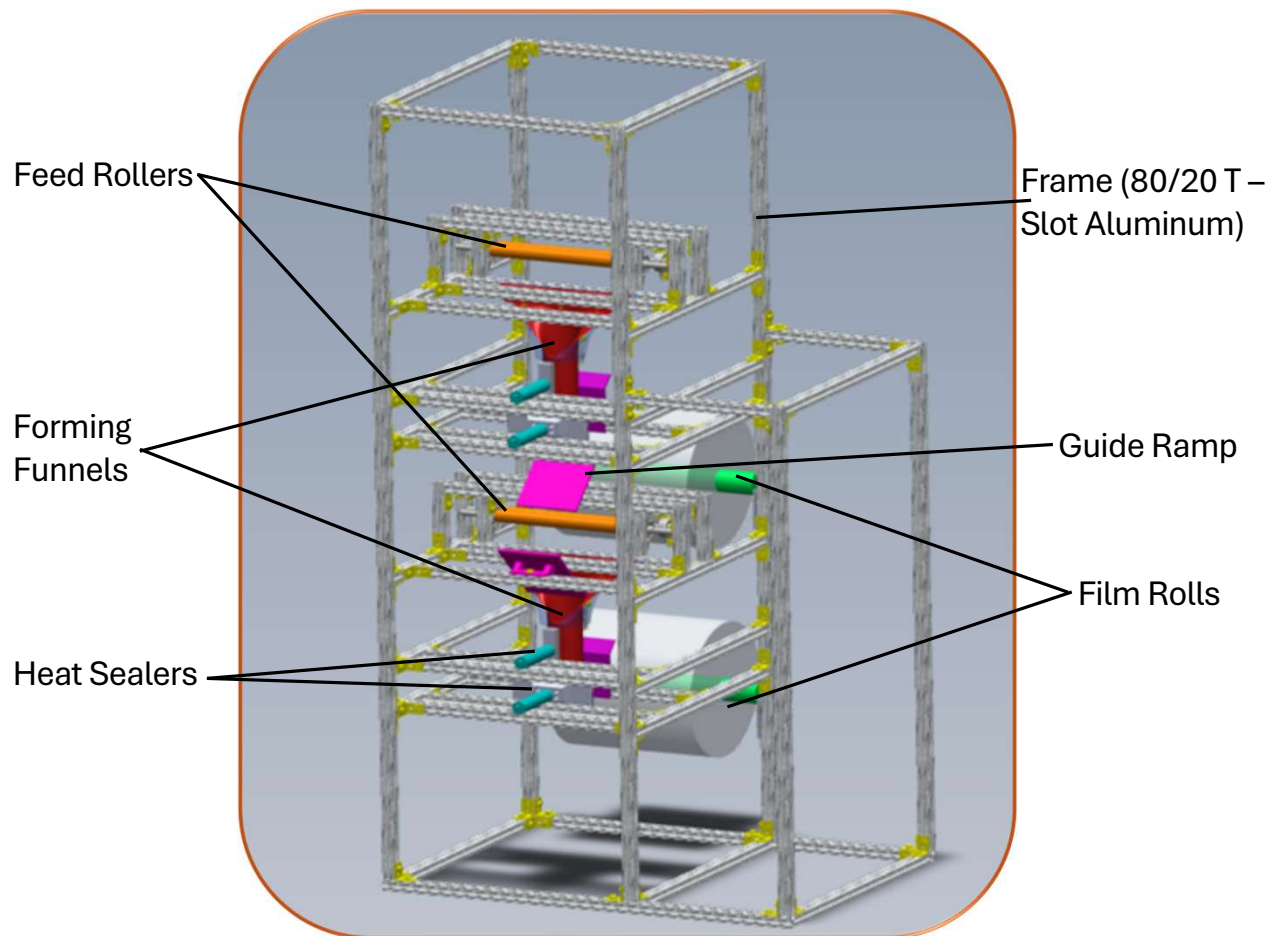


Figure 1: General Machine Concept

Team Members:

Connor Fisbeck, Chance Johnson, Nathan Johnson, Derek Mehal, Sam Mitchell, Thomas Paral, Trent Slade, Matthew Vanatta