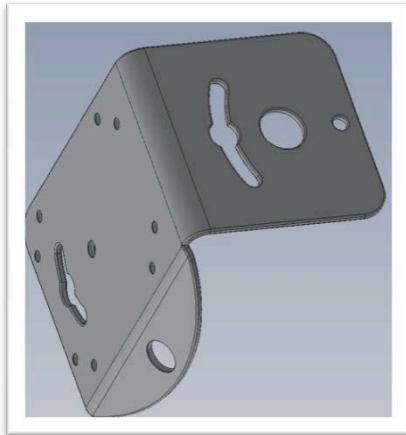




Part Design – Modeling and Building

1. Camera/Light Bracket and supports



Installed at our customer's site is a Cognex camera and light on our custom stand. The panel is mounted lower on the other side. This had to fit over the end of the conveyor for the camera to see the ink printed on the end of the carton after a 90 degree transfer.

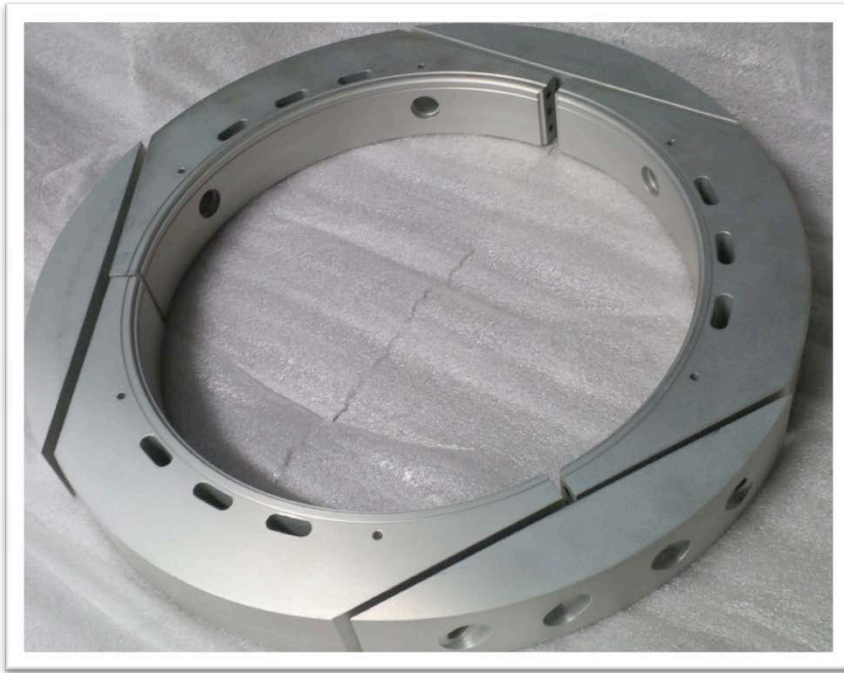
We designed the brackets to hold either the camera or the light, and an air hose with nozzle for cleaning dust from the lens and light. We also designed the vertical and horizontal supports for the camera and light brackets to have full adjustability.

This is for for a client that needed to inspect cartons at a maximum of 250 per minute. We built two of them as there were two similar lines. We were also responsible for the reject of the cartons which was slightly down stream.



Part Design – Modeling and Building

2. Concentric Sealing Ring



Built for our customer to help contain condensation. It was a very hazardous environment and it had to be made of special materials.

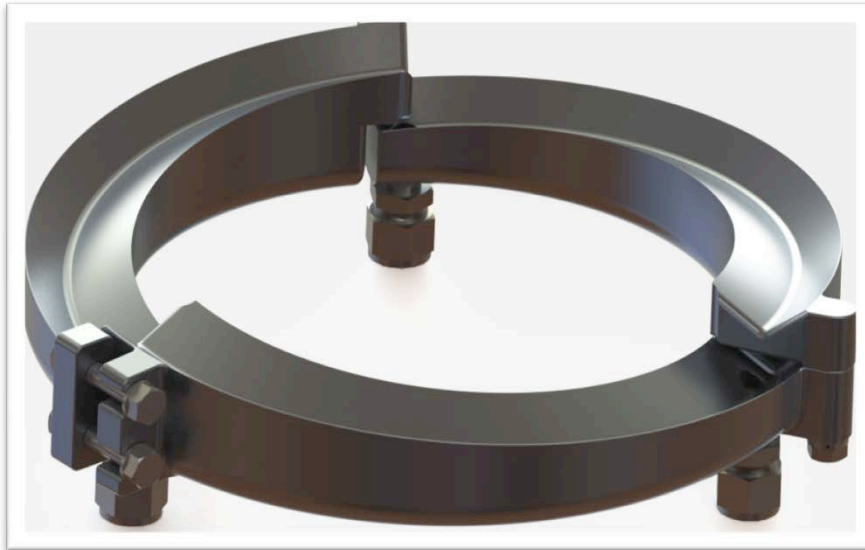
It had to be made in 3 parts to fit around the object with tightening capabilities.

This was not what they ended up using as they had us create another design which you will see next.



Part Design – Modeling and Building

3. Sealing Ring

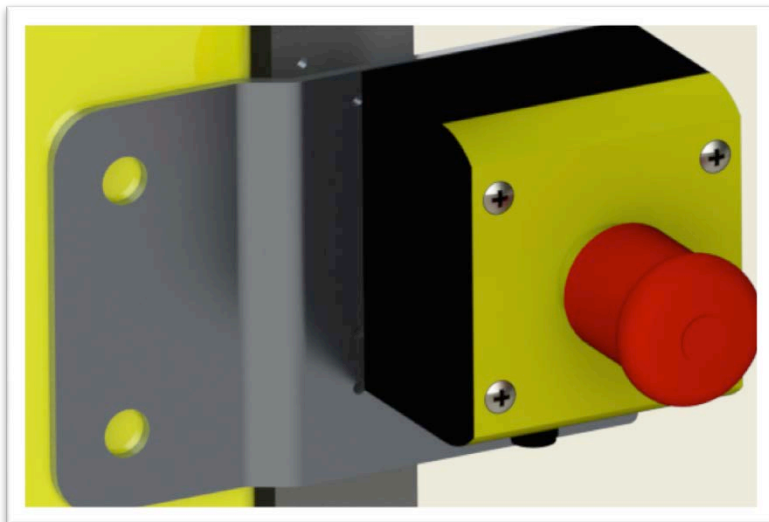
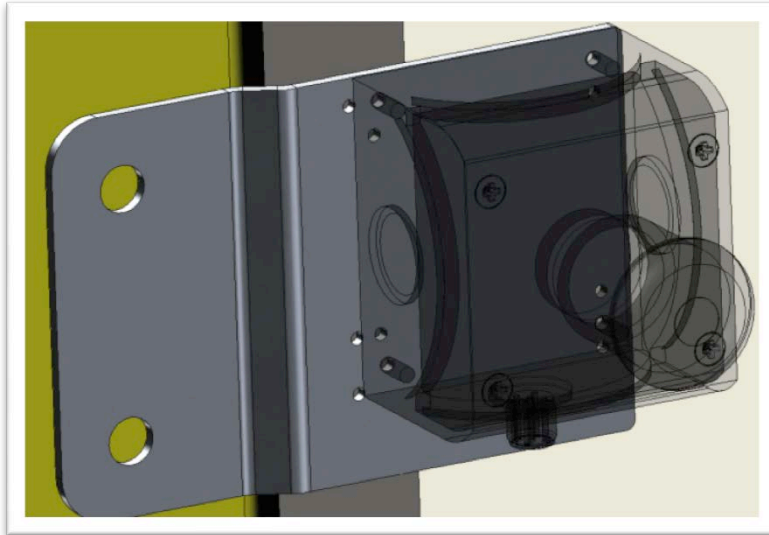


Shown above is the installed Sealing Ring model with the new design. The actual picture cannot be shown for privacy reasons.



Part Design – Modeling and Building

4. E-Stop Brackets



We make our own brackets for E-Stops, light curtains and push button stations. Show is our E-Stop over AS-I Bracket. A normal E-Stop can also be mounted on this bracket. We use AS-I to reduce the amount of wiring, potential wiring errors and fast start-up & commissioning.



Part Design – Modeling and Building

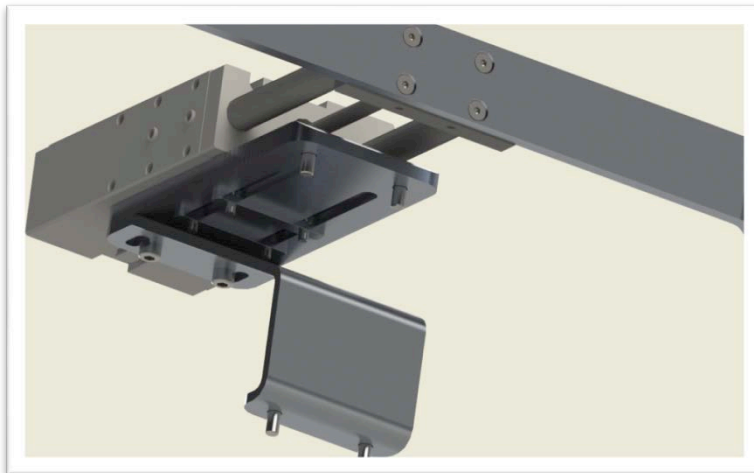
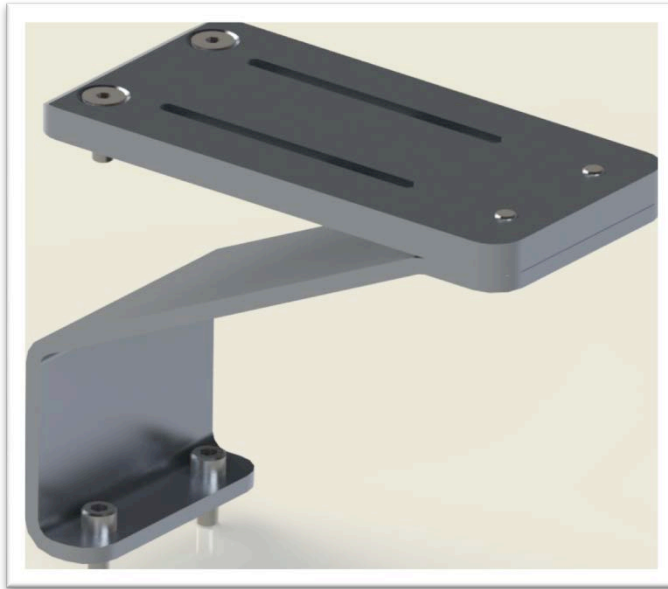
5. Light Curtain Brackets with an E-Stop/PB Station





Part Design – Modeling and Building

6. Case Pushers

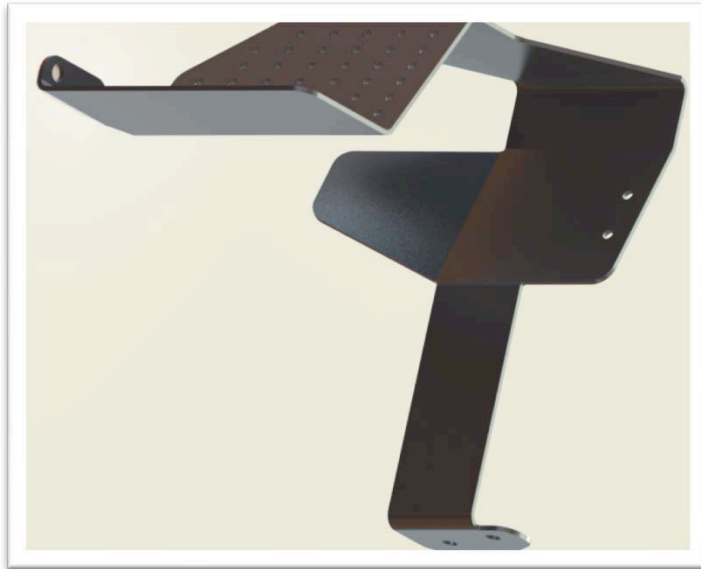


We design and make our own case pushers. The solid brackets hold an off-the-shelf cylinder from one of our partners. The guide or contact point is also designed, modeled and built.



Part Design – Modeling and Building

7. Robot Through Support Bracket



part from the fabrication shop

We designed a through support bracket which supports a vacuum hose and cabling. It was a very complicated part to build. We did not accept the part from the fabrication shop, as the anodizing process had a gap and it missed the tapped hole.



Part Design – Modeling and Building

8. Complete Cell Modeling



We design and model our cells before any procurement or construction so our clients can get a real feel for the layout of the cell and the space around it. We take into account all of the items inside of the cell, but also all of the logistics outside of the cell. Operation of the system with operator stations, push button stations, guard doors are all important factors with cell design. Material delivery and removal are also very important so the cell can operate as efficiently as possible.