



ALTERNATIVE DESIGN
MANUFACTURING & SUPPLY, INC.

Proven Products. Creative Solutions.



What We Do:

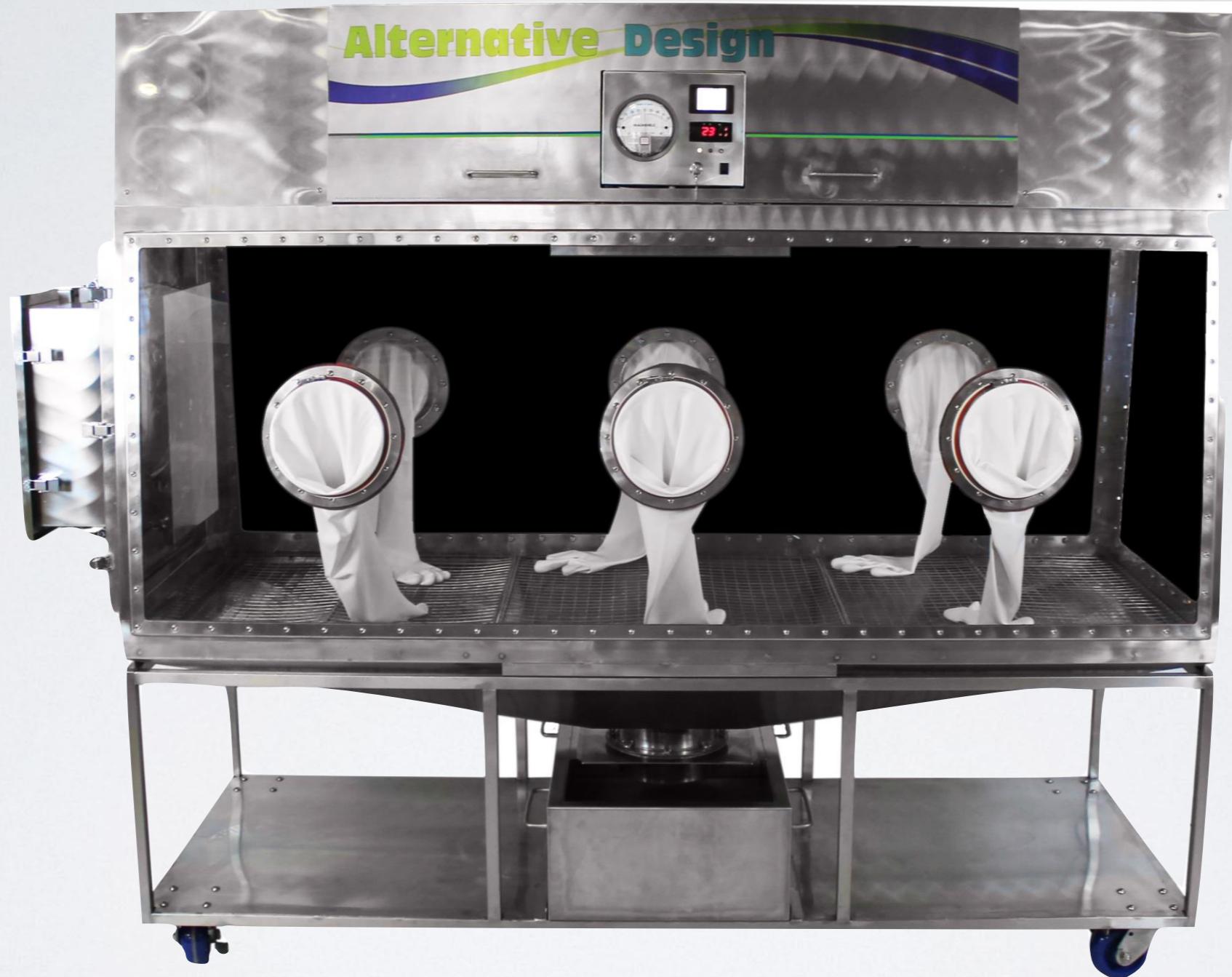
- Custom metal fabrication
- Extensive sheet metal background
- Design/develop custom products
- Specialize in the design and manufacture of laboratory animal housing and commercial poultry equipment
- Commercial construction projects

Alternative Design Manufacturing & Supply

Siloam Springs, AR 72761

800-320-2459

www.alternatedesign.com



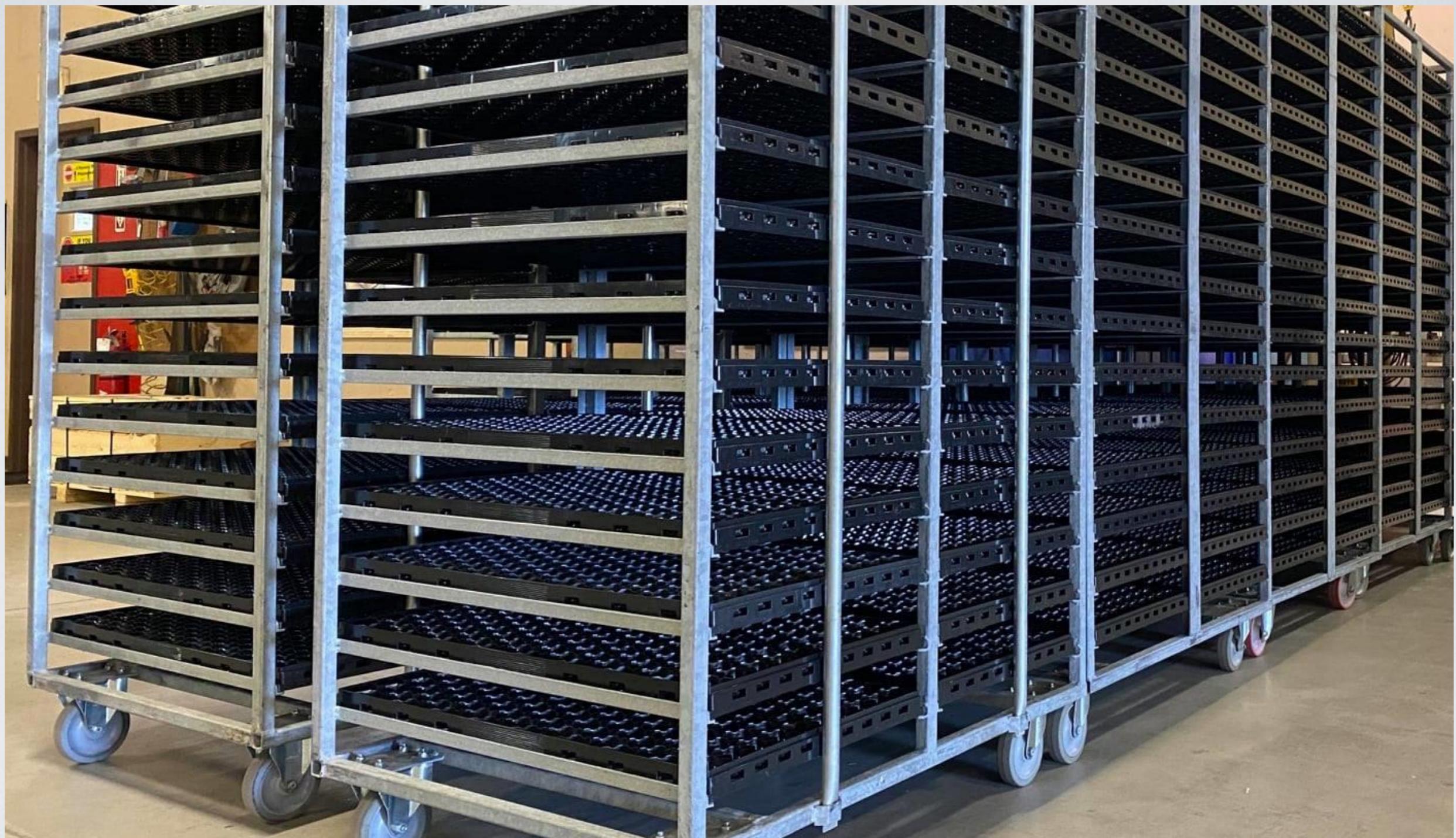
Product Example – Glove Port Isolator



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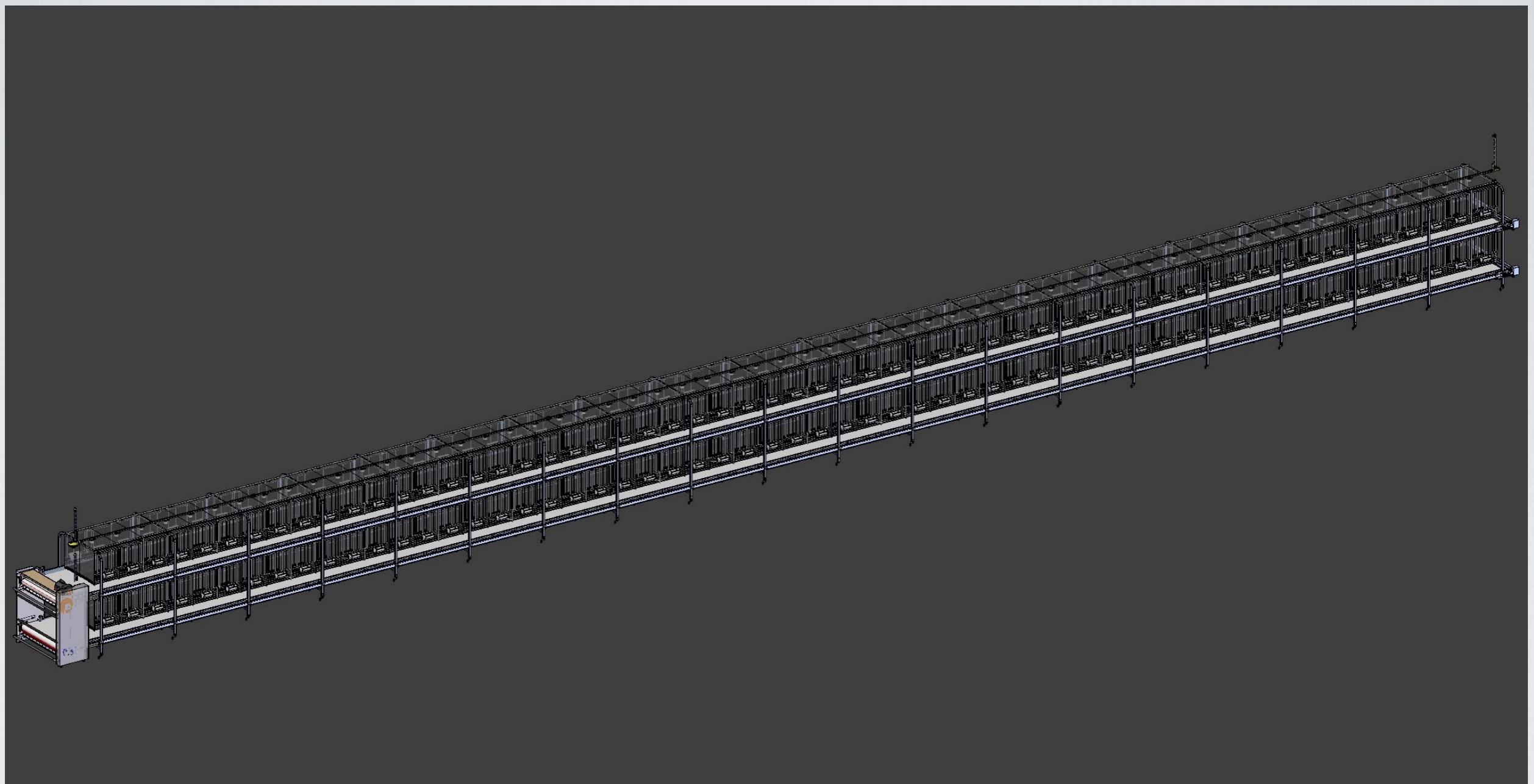
Product Example – Skid Steer Grapple



Product Example – Egg Buggy



Product Example – Molded Plastic Products



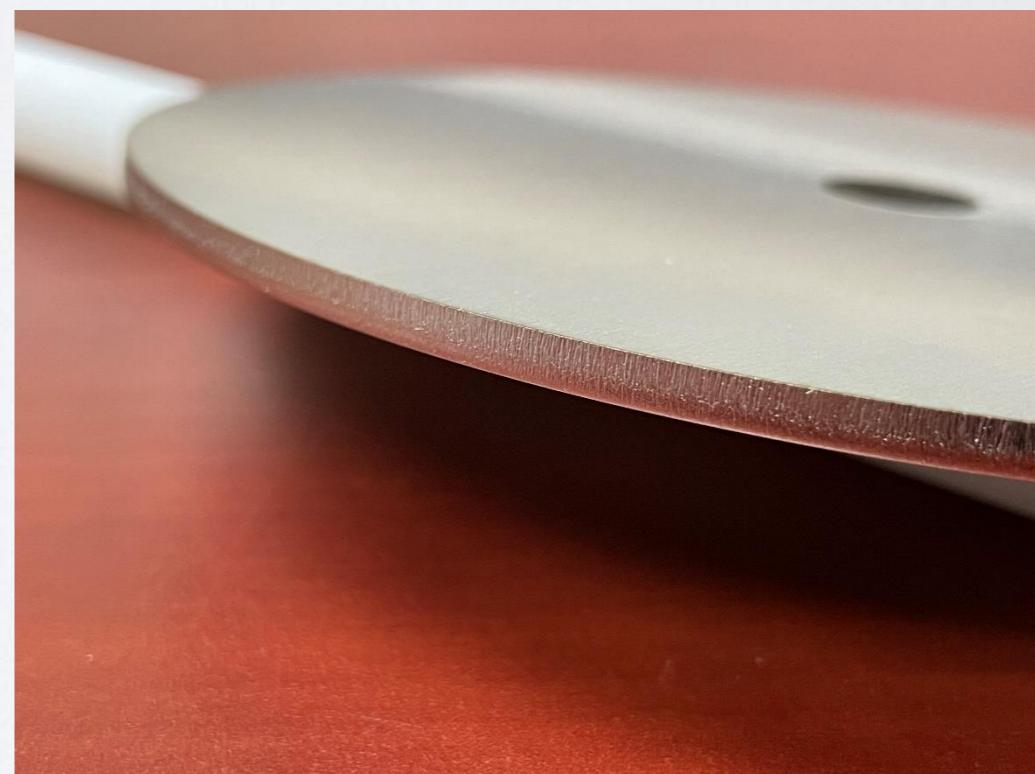
Product Example – Poultry Row



Product Example – Pedestrian Flyover



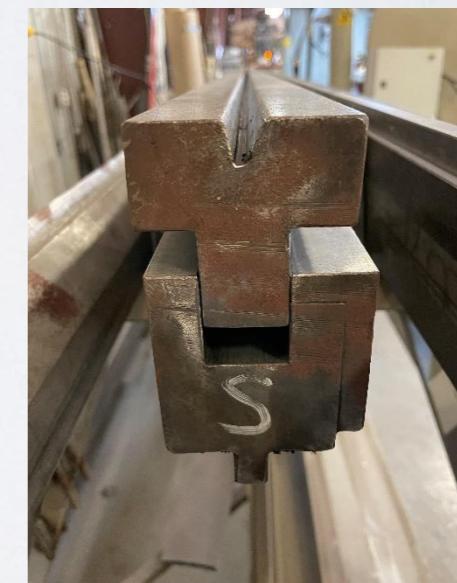
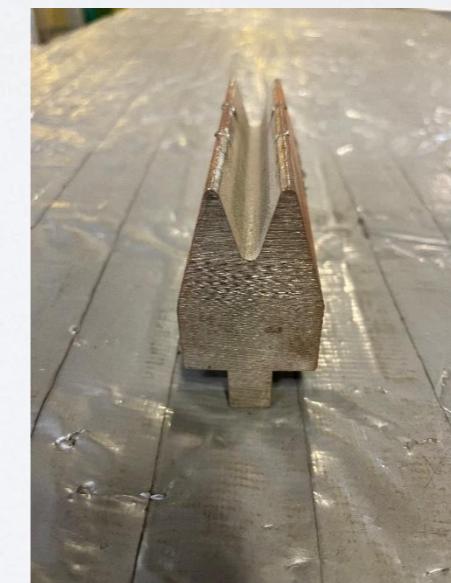
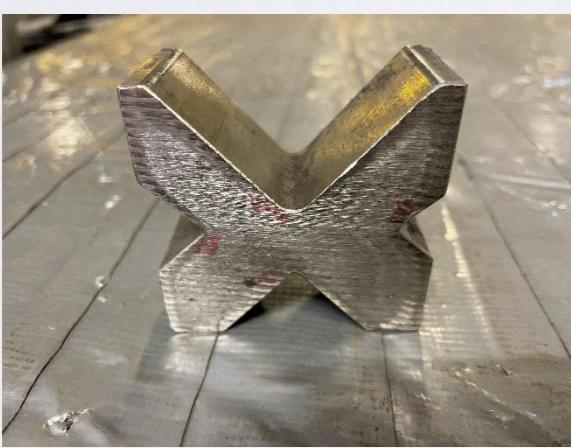
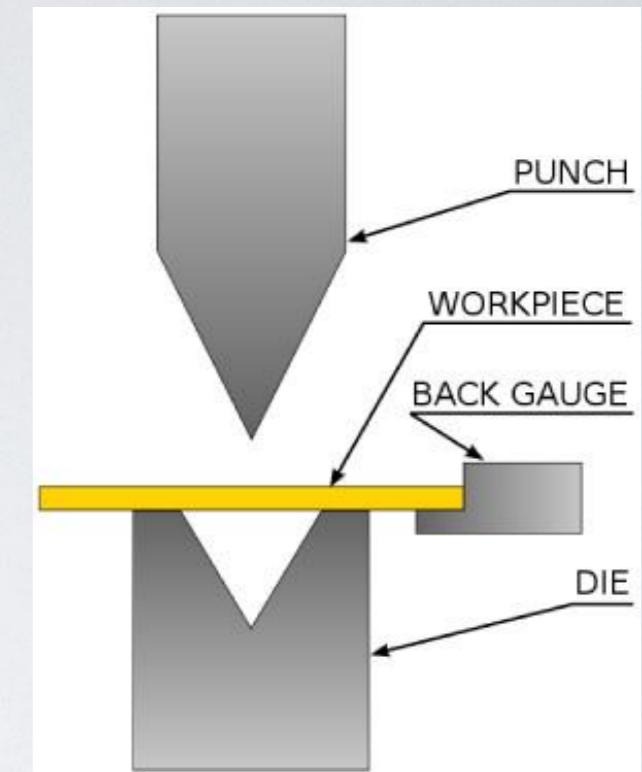
Capabilities



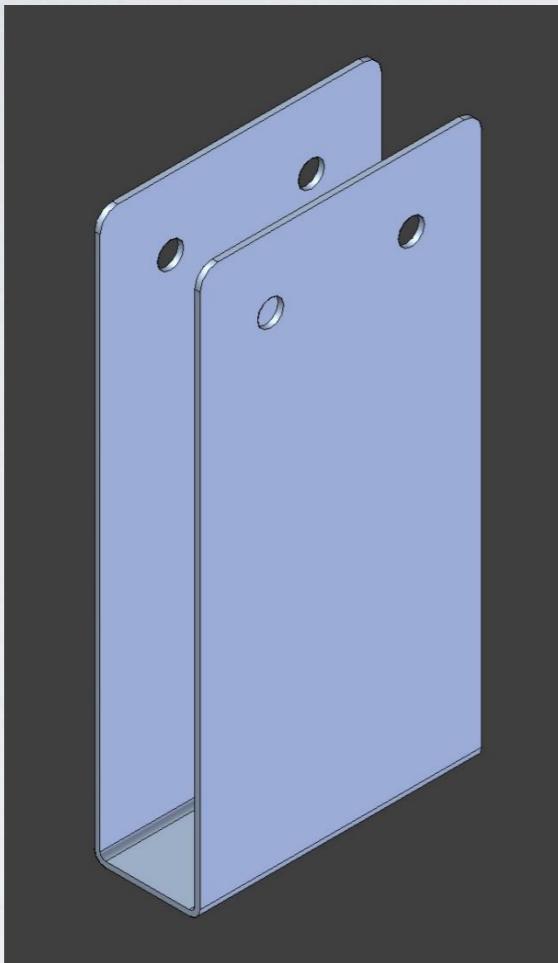
Sheet Metal Types and Finishes



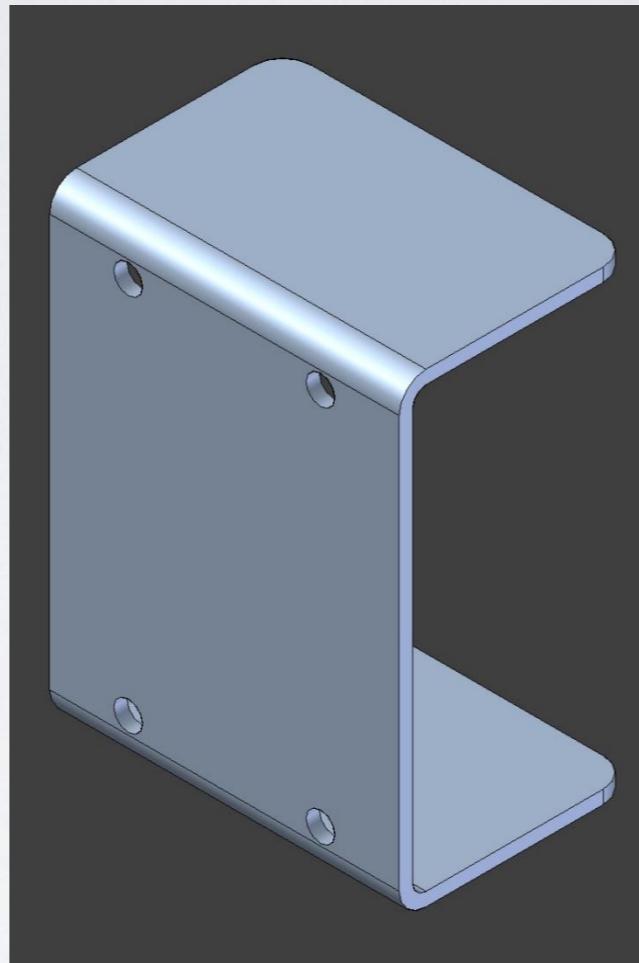
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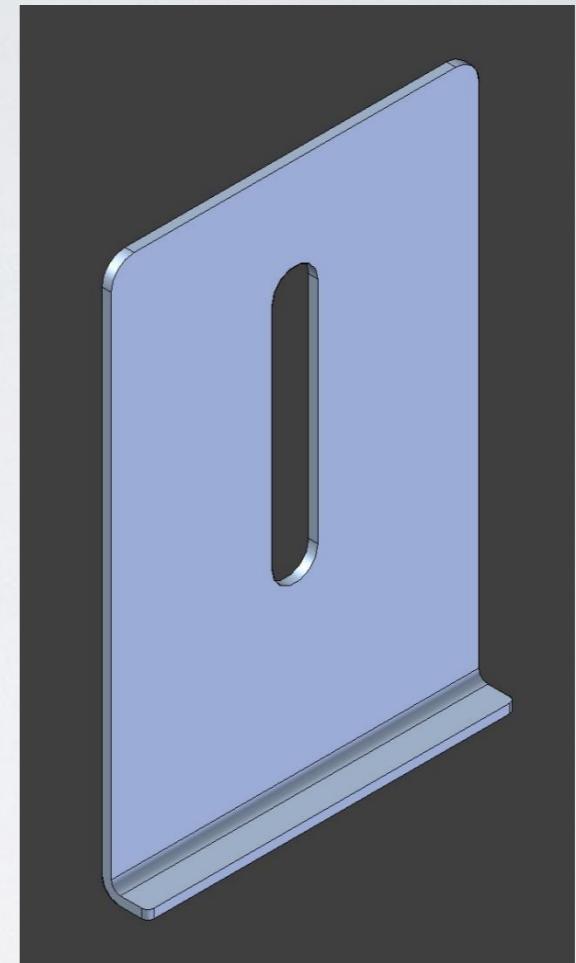
Sheet Metal Forming



Aspect Ratio /
Flange Depth

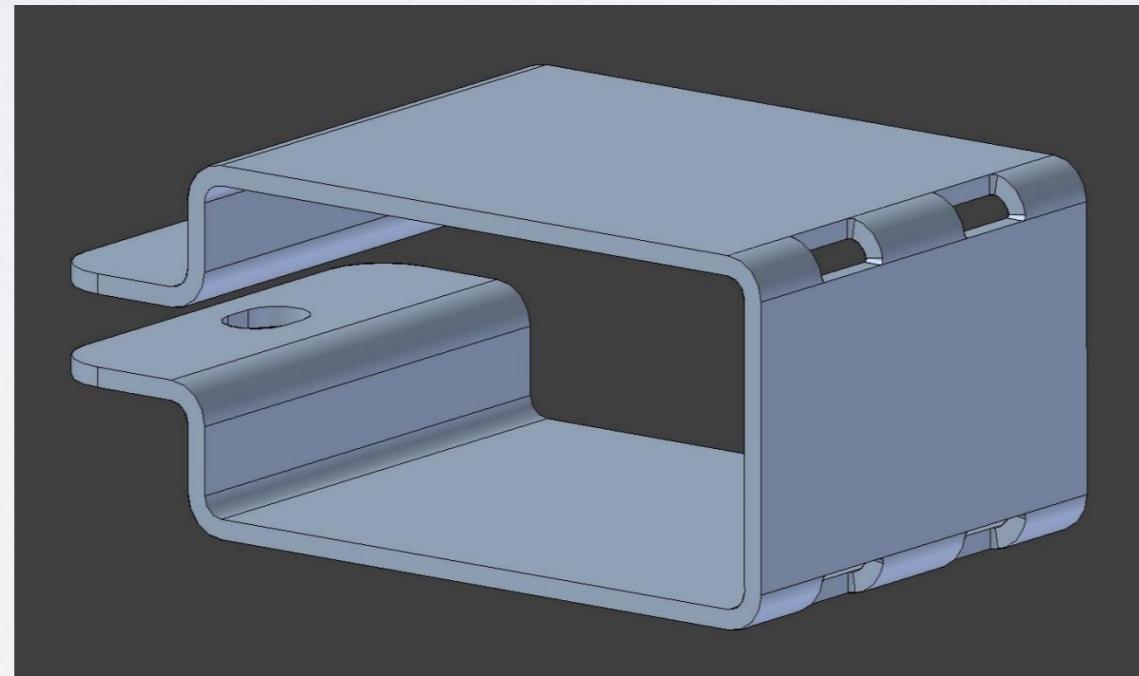
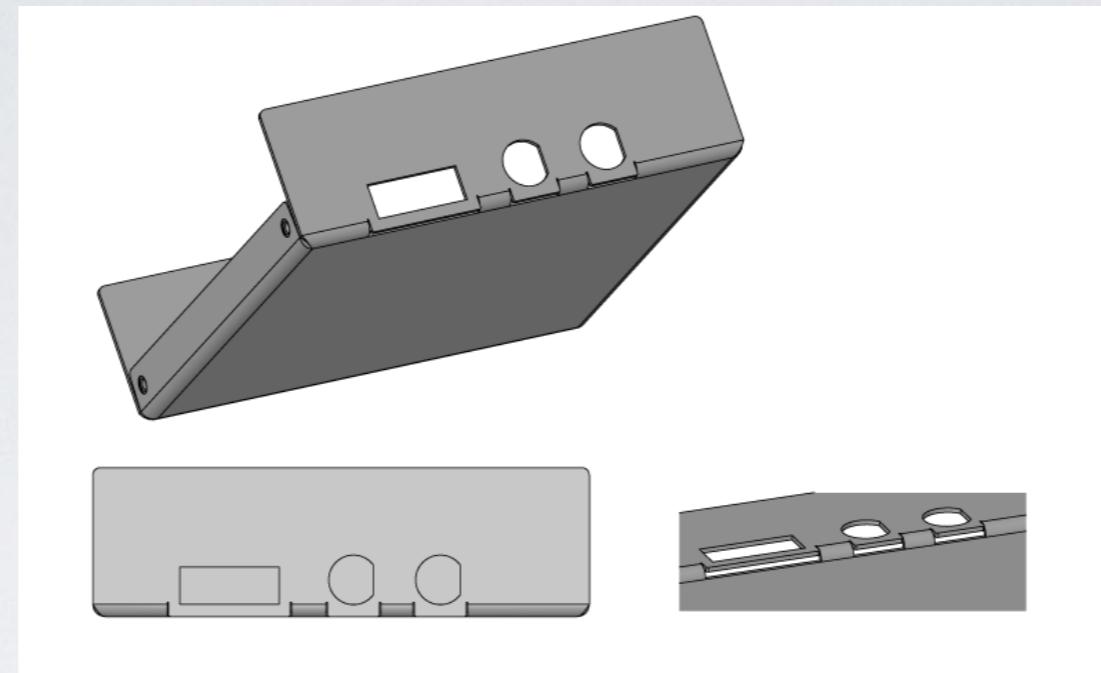


Cutouts Near Bends



Flange Too Short

Sheet Metal Forming – Bad Part Design



Sheet Metal Forming – Tips and Tricks

Material Selection

Galvanized 30% more than mild steel

Stainless steel almost 300% more than mild steel

Tolerances

Design in wiggle room and adjustment when possible

Be mindful of drawing tolerances and critical dimensions

Be mindful of the process used to make the part; some are more precise than others

Welding

More welds are not necessarily better

Unintended side effects – stress, warping, added cost

Consider fasteners such as bolts or rivets when possible

Working with vendors

Convey designs/drawings/ideas as clearly as possible

Be clear on what functions/features are important, let the experts handle the rest

Be willing to accept suggestions and design changes in order to improve end result

Questions are cheap, rework is not

Design Tips and Tricks



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