

### Custom Aluminum Extrusions

Providing custom and OEM aluminum extrusion services for several major industrial sectors, Iowa Aluminum adheres to a range of industry standards to ensure the highest quality. Using ram extrusion and offering water trough capabilities compliant with 6061 standards, we offer a range of extrusion products including:

- Automotive components;
- Docks, doors, and floorboards;
- Electrical Bus Bar
- Furniture components;
- Frames and partitions;
- Store fronts and windows; and
- Trucking components.

Our extrusions are available in hollow, semi-hollow, and solid form, and we conform to the Aluminum Association's strict tolerance requirements. For more information, including extrusion specifications, please contact Iowa Aluminum.



### Specifications

<b>General Capabilities</b>	Custom O.E.M.
<b>Industry Focus</b>	Aerospace (6000 Series Only) Architectural Automotive Commercial Electronics Industrial Marine Military Trucking
<b>Industry Standards</b>	ANSI - American National Standards Institute AS - Aerospace Industry Standard ASME - American Society of Mechanical Engineers ASTM - American Society for Testing and Materials ISO - International Organization for Standardization (Compliant) Mil-Spec - Military Specifications RoHS - Restriction Of Hazardous Substances (Compliant) The Aluminum Association
<b>Extrusion Process</b>	Ram Extrusion Water trough Capabilities to meet 6061 Standards
<b>Maximum Ram Pressure</b>	1450 tons
<b>Maximum Extrusion Profile Width</b>	8 Inch 203.2 mm
<b>Maximum Extrusion Length</b>	117 ft 35.66 m

<b>Tolerance (+/-)</b>	We Conform to the Aluminum Associations Tolerance Requirements
<b>Production Volume</b>	Min: 500 lbs Prototype to High Volume
<b>Typical Minimum Lead Times</b>	Production - 2 weeks Sample - 2 weeks Tooling - 2 weeks
<b>Typical Max Lead Times</b>	Production - 6 weeks
<b>Materials</b>	6000 Series Aluminum
<b>Products</b>	Automotive Components <ul style="list-style-type: none"> <li>● Bar Stock</li> <li>● Trim</li> <li>● Door/Window Panels</li> </ul> Docks Doors Electrical Bus Bar Floor Boards Frames Furniture Components Partitions Store Fronts Trucking Components <ul style="list-style-type: none"> <li>● Hooks</li> <li>● Floor Boards</li> </ul> Windows
<b>Extrusion Product Form</b>	Hollows Semi-Hollows Solids
<b>Additional Outside Services</b>	Anodizing Heat Treating Painting Powder Coating
<b>File Formats</b>	AutoCAD (DWG,DWZ) BMP - Bit Mapped Graphics DXF - Drawing Interchange Format, or Drawing Exchange Format GIF - Graphics Interchange Format JPG or JPEG - Joint Photographic Experts Group PDF - Portable Document Format TIFF - Tagged Image File Format
<b>Equipment</b>	<p><b>Press-1: 1250-Ton Extrusion Press</b> - is primarily used for thin wall shapes down to .040" and small production orders down to 350 pounds that most extruders shy away from. However, when required, heavier wall shapes and larger production orders are produced, which provides Iowa Aluminum the diversity needed to meet customer demands.</p> <p><b>Press-2: 1450-Ton Extrusion Press</b> - is primarily used for larger wall shapes and production orders that allow Iowa Aluminum to become much more diversified in meeting customer requirements and enhancing their extrusion capabilities. Adequate quenching from air fans and water provide the ability to meet mechanical properties of 6061 and 6005 alloys.</p> <p><b>Heat Treat Oven-One</b> accommodates extrusions primarily from Press-1, however, depending on alloy and temper requirements, it will accommodate extrusions from both presses to meet customer requirements.</p> <p><b>Heat Treat Oven-Two</b> accommodates extrusions primarily from Press-2, however, depending on alloy and temper requirements, it will accommodate extrusions from both presses to meet customer requirements.</p> <p><b>Automatic Billet Saw and Gas Billet Heater</b> - The Automatic Billet Saw automatically cuts billets mostly for Press-2 from 27" lengths down to 10" lengths, but it can also cut billets for Press-1 at 17" and 16" lengths when needed. Press-1 utilizes billet sizes from 17" down to 13" lengths and billet sizes lower than 16" lengths are cut on our Billet Band Saw. The Automatic Billet Saw will cut billets for Press-2 and load them onto a conveyor to the Gas Billet Heater. The billets can be precut by the Press Operator from the Press Controls, according to the work order requirement allowing the Press Operator to schedule the size of billet without leaving the controls to perform the task.</p>