Plate Laser Cutting

- Laser tolerances in stainless & aluminum plate up to 3/4", carbon plate up to 1"
- Maximum plate capacity 80" X 159"
- High precision and repeatability on cut parts
- Produces near net or finished products to your print
- Minimal heat affected zone
- Minimal to no clean-up
- Etching (not on aluminum) & “stitch-cutting” available
- Potential Secondary Processes:
  - Tapping from #10 - 3/4 and M5 - M12 available depending on size/thickness
  - Forming

<table>
<thead>
<tr>
<th>Grades</th>
<th>Tolerance</th>
<th>Minimum Hole Sizes</th>
<th>Max Plate Capacity</th>
<th>Plate Laser Acceptable Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>1” Carbon</td>
<td>1” = +/-0.017”</td>
<td>3/4”dia on 1”thk</td>
<td>80” x 159”</td>
<td>Carbon = Yes</td>
</tr>
<tr>
<td>3/4” Stainless</td>
<td>1/2” = +/-0.008”</td>
<td>9/16”dia on 3/4”thk</td>
<td></td>
<td>Stainless = Yes</td>
</tr>
<tr>
<td>3/4” Aluminum</td>
<td>1/4” and &lt;= +/-0.005”</td>
<td>1/4”dia on 1/2”thk</td>
<td></td>
<td>Aluminum = Yes, no etching</td>
</tr>
<tr>
<td>1/2” CF Bar</td>
<td></td>
<td>3/16”dia on 1/4”thk</td>
<td></td>
<td>Red Metals = No</td>
</tr>
<tr>
<td>1/2” Tool &amp; Jig</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This chart is a guideline only. For more specific information please contact your Alro representative.

Alro Steel
Metals • Industrial Supplies • Plastics

Alro has a fully integrated CAD Department to handle most file types:
Preferred Files: .dxf .dwg
Also Accepted:
.iges .asm .prt .dft .par .psm .pwd .step .X_B .X_T .sat model .iam .stp .ipt .dgn .sldasm .sldprt .stl

alro.com
888-888-ALRO
Alro Metals Outlet locations stock a broad range of metals and plastics in a convenient retail setting. Metals Outlet specializes in small to large orders, perfect for machine shops, do-it-yourself (DIY) and maintenance departments.

**About Alro**

Integrity. Loyalty. Honesty. These principals have guided Alro Steel since our founding in 1948 by brothers, Al and Robert Glick. From a small garage in Jackson, Michigan, Alro Steel has grown to over 60 locations in 12 states. Alro distributes metals, industrial supplies and plastics. A wide variety of processing services are available including cut-to-size metals and plastics with next day delivery to over 25,000 customers in North America.

Focused on exceeding our customers’ expectations, we build relationships with all our customers, large and small. To learn more, visit alro.com.

**Processing Services**

- Saw Cutting
- Precision Plate Sawing
- Tube Cutting & Chamfering
- Plasma Cutting
- Plate Laser Cutting
- 6-Axis Laser Cutting
- Waterjet Cutting
- Precision Milling
- Shearing
- Plate Grinding
- Thermal Processing
- Plastic Processing

**Metals**

<table>
<thead>
<tr>
<th>Alloy</th>
<th>Bar</th>
<th>Pipe Tube</th>
<th>Plate Sheet</th>
<th>Structural</th>
<th>Grating Exp. Metal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Brass</td>
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<td>Carbon Steel</td>
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<tr>
<td>Copper</td>
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</tr>
<tr>
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<tr>
<td>Tool Steel</td>
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<td>✔</td>
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<td>✔</td>
</tr>
</tbody>
</table>

**Industrial Supplies**

- Abrasives
- Gaging
- Material Handling
- Brushes
- Grinding
- MRO Supplies
- Coolant
- Hand Tools
- Sanding
- Cutting Tools
- Machinery
- Tool Holding
- Die Supplies
- Maintenance
- Work Holding

**Plastics**

- ABS
- Makrolon®
- Polypropylene
- Acetal
- Nylon
- PTFE
- Acrylic
- Nylitol®
- Starboard®
- Delrin®
- PEEK
- TIVAR®
- Extron®
- Phenolics
- UHMW
- Fiberglass
- Flexiglas®
- Urethane
- Grating
- Polycarbonate
- Vivak®

Note: The symbols ® & ™ indicate a registered trade name.

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