Press Brake Forming

With multiple machines of varying capabilities, Alro Steel is uniquely qualified to cut and form your custom parts. Along with standard formed shapes, Alro is capable of producing more complex parts such as:

- 3- and 4-sided pans
- Multiple profile parts
- Overbending of a variety of thickness
- Multiple hit “step brake/rolled parts”

Alro continually invests in new technology and updating their machines to provide the highest quality parts with the following advantages:

- Use of precision ground and high-quality finish tooling for accurate repeatability
- Sophisticated interactive programming software
- 6-axis back-gauge with independent finger movement for complex geometry
- Use of static surface tooling:
  - Minimizes witness marks on parts
  - Minimal to no distortion of holes and cut-outs near bend lines
  - Smaller leg lengths
  - Consistency on tapered legs

With use of static surface tooling technology, minimal to no distortion of holes near bend lines is achievable along with creating smaller leg lengths than ever before.

Possessing a 20 ft. press allows us to service a wide spectrum of the forming market.

<table>
<thead>
<tr>
<th>Maximum Bend Length</th>
<th>Carbon</th>
<th>Stainless</th>
<th>Aluminum</th>
<th>Red Metals</th>
<th>Tolerance on Bend</th>
<th>Tolerance on Leg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 20 ft.</td>
<td>20 ga up to</td>
<td>20 ga up to</td>
<td>20 ga up to</td>
<td>20 ga up to</td>
<td>+/- 1 Degree</td>
<td>20 ga - 5/16” = 1/16” overall</td>
</tr>
<tr>
<td>*Depending on material thickness</td>
<td>5/8” thk</td>
<td>5/8” thk</td>
<td>5/8” thk</td>
<td>5/8” thk</td>
<td></td>
<td>3/8” - 1/2” = 1/8” overall</td>
</tr>
</tbody>
</table>

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

Alro has a fully integrated CAD Department to handle most file types:

Preferred Files: .dxf .dwg .sldprt .prt

Also Accepted: .iges .asm .dft .par .psm .pwd .step .X_B .X_T .sat model .iam .stp .ipt .dgn .sldasm .stl
Your One Stop Shop for Metals, Industrial Supplies & Plastics

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 70 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.

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>Alloy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brass</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bronze</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon Steel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cast Iron</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copper</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stainless</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tool Steel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Industrial Supplies

<table>
<thead>
<tr>
<th>Abrasives</th>
<th>Gauging</th>
<th>Material Handling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brushes</td>
<td>Grinding</td>
<td>MRO Supplies</td>
</tr>
<tr>
<td>Coolant</td>
<td>Hand Tools</td>
<td>Sanding</td>
</tr>
<tr>
<td>Cutting Tools</td>
<td>Machinery</td>
<td>Tool Holding</td>
</tr>
<tr>
<td>Die Supplies</td>
<td>Maintenance</td>
<td>Work Holding</td>
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</tbody>
</table>

Plastics

<table>
<thead>
<tr>
<th>ABS</th>
<th>Nylon</th>
<th>PTFE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetal</td>
<td>Nyloil®</td>
<td>Starboard®</td>
</tr>
<tr>
<td>Acrylic</td>
<td>PEEK</td>
<td>TIVAR®</td>
</tr>
<tr>
<td>Delrin®</td>
<td>Phenolics</td>
<td>Tuffak®</td>
</tr>
<tr>
<td>Extem®</td>
<td>Flexilas®</td>
<td>UHMW</td>
</tr>
<tr>
<td>Fiberglass</td>
<td>Polycarbonate</td>
<td>Urethane</td>
</tr>
<tr>
<td>Grating</td>
<td>Polypropylene</td>
<td>Vivak®</td>
</tr>
</tbody>
</table>

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

Alro Metals Outlet

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.

Illinois
- Aurora
- Bloomingdale
- Bolingbrook
- Chicago
- Elk Grove Village
- University Park

Wisconsin
- Milwaukee
- Oshkosh
- Ft. Wayne
- Indianapolis
- Muncie

Indiana
- Alpena
- Battle Creek
- Bay City
- Cadillac
- Charlevoix
- Clare

Michigan
- Detroit
- Flint
- Grand Rapids
- Grayling
- Jackson
- Kalamazoo
- Lansing
- Livonia
- Madison Heights
- Niles
- Pontiac
- Troy
- Warren

New York
- Buffalo

Ohio
- Akron
- Cincinnati
- Columbus
- Dayton
- Toledo

Kentucky
- Louisville

North Carolina
- Charlotte
- Greensboro
- Kernersville

Florida
- Boca Raton
- Clearwater
- Jacksonville
- Miami
- Orlando
- Pompano Beach
- Sarasota
- Tampa

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