



Imago Manufacturing, LLC  
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## Imago Manufacturing Machining Capabilities and Capacities

Imago Manufacturing is an ISO 9001:2015 certified, **Solar Powered**, precision CNC machining company located in Northern Illinois. Serving a variety of North American businesses, Imago Manufacturing specializes in precision CNC milling and turning with a focus on short to mid-range production machining of turned parts with milled features in a wide range of materials. Imago Manufacturing invests in the very best late-model CNC machines from the world's top builders. Our Multi-tasking CNC Turning Centers have modern innovations like Y-axis live tooling, for done-in-one milling machine capability on a lathe. Our Mills have on machine probing and 4-axis milling for the ultimate in productivity and reliability.

### Machining capabilities



- Milling
  - 3-axis simultaneous machining
  - 4-axis simultaneous machining
  - Facing
  - Pocketing
  - Profiling
  - Engraving
- Drilling
- Boring
  - Internal Profiling
  - Counterboring
  - Countersinking
- Reaming
- Broaching
  - Keyways
  - Rotary Broach
- Turning
  - Contour Turning
  - Form Turning
  - Groove Turning
  - Hard Turning
  - Shaft Turning
  - Straight Turning
  - Taper Turning
  - Turning Between Centers
- Threading
  - External Threading
  - Internal Threading
  - Tapered/Pipe Threading
  - Tapping
  - Thread Milling

### CNC Machining Equipment






- 2020 Okuma LB4000EXIIBBM/750 L3000e CNC lathe featuring C-Axis Live Tooling, Programmable Tailstock
- 2019 HAAS ST25Y CNC Lathe Featuring Y-axis Live Tooling and a HAAS Barfeeder
- 2017 Okuma GENOS L3000e CNC lathe featuring C-Axis Live Tooling, Programmable Tailstock and an LNS Quick Load Servo 80 S2 Automatic bar feeder
- 2013 Okuma LB3000EXIIMYW CNC Lathe Featuring Y-axis Live Tooling, Programmable Sub-spindle and an LNS Quick Load Servo 80 S2 Automatic bar feeder
- 2012 HAAS VF2SS CNC Milling Machine Featuring a HAAS HRT-160 4th-Axis Rotary Table and Renishaw Work and Tool Probing System
- 2007 HAAS GT10 CNC Lathe 2-axis Chucker

### Unique Machine Capabilities

- CNC Mill Featuring 4-axis Machining Capability and On-machine Work and Tool Probing
- CNC Lathe with Live tooling (Milling Capability on a Lathe), Y-axis, Sub-spindles, Programmable Tailstocks and Automatic Bar Feeders



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<b>Turning Diameter</b>	<ul style="list-style-type: none"> <li>• Barfeed: 1/4" up to 4"</li> <li>• Chucking: up to 16-7/8"</li> </ul>	
<b>Turning Length</b>	<ul style="list-style-type: none"> <li>• 30" Between Spindles</li> <li>• 29.5" Chucking with Tailstock</li> </ul>	
<b>Milling Length</b>	<ul style="list-style-type: none"> <li>• Approximately 24" (30" Maximum Machine Travel)</li> </ul>	
<b>Milling Width</b>	<ul style="list-style-type: none"> <li>• Approximately 14" (16" Maximum Machine Travel)</li> </ul>	
<b>Milling Height</b>	<ul style="list-style-type: none"> <li>• Approximately 16" (20" Maximum Machine Travel)</li> </ul>	
<b>Tolerance</b>	<ul style="list-style-type: none"> <li>• +/- .0001" dimensional and 16 Microfinish as machined</li> </ul>	
<b>Materials</b>  	<ul style="list-style-type: none"> <li>• ABS</li> <li>• Acetal</li> <li>• Acrylic</li> <li>• Alloy Steel</li> <li>• Aluminum</li> <li>• Brass</li> <li>• Bronze</li> <li>• Cast Iron</li> <li>• Copper</li> <li>• Delrin</li> <li>• Dura Bar</li> <li>• Hastelloy</li> <li>• Inconel</li> <li>• Manganese Steel</li> </ul>	<ul style="list-style-type: none"> <li>• Monel</li> <li>• Nickel</li> <li>• Nitronic 60</li> <li>• Nylon</li> <li>• PEEK</li> <li>• Polycarbonate</li> <li>• PTFE</li> <li>• PVC</li> <li>• Stainless Steel</li> <li>• Steel</li> <li>• Teflon</li> <li>• Titanium</li> <li>• UHMW</li> <li>• Ultem</li> </ul>
<b>In-house Support Services</b>  	<ul style="list-style-type: none"> <li>• ISO 9001:2015 Certified</li> <li>• Assembly</li> <li>• Kitting</li> <li>• Labeling</li> <li>• Manual machining</li> <li>• Packaging</li> </ul>	<ul style="list-style-type: none"> <li>• Parts cleaning</li> <li>• Sawing</li> <li>• Vibratory Deburring</li> <li>• Vapor Blasting</li> <li>• Vapor Deburring</li> <li>• Warehousing</li> <li>• Welding</li> </ul>
<b>Software</b>	<ul style="list-style-type: none"> <li>• Mastercam 2020 CAM programming software</li> </ul>	<ul style="list-style-type: none"> <li>• JobBoss Shop Management Software</li> </ul>
<b>Outside Services</b>  	<ul style="list-style-type: none"> <li>• Anodizing</li> <li>• Bead/Sand Blasting</li> <li>• Electropolishing</li> <li>• Grinding</li> <li>• Heat treating</li> </ul>	<ul style="list-style-type: none"> <li>• Painting</li> <li>• Passivating</li> <li>• Plating</li> <li>• Powder coating</li> <li>• Welding</li> </ul>