

Process	Applications	Instant Quoting Maximum Dimensions	Layer Thickness	Material Options	Finish Options	Lead Time	Recommended Minimum Feature Size
<b>Stereolithography (SLA)</b>  <i>3D Printing</i>	<ul style="list-style-type: none"> <li>• Excellent for fit, form, and function testing</li> <li>• Design verification models for appearance and proof-of-concept models</li> <li>• Best surface quality and highest resolution, ideal for trade show quality parts</li> <li>• High precision and accuracy</li> <li>• Easily finished and painted for demonstration/presentation models</li> </ul>	<b>Normal/Standard Res:</b> 1500 mm × 750 mm × 550 mm (59" × 29.5" × 21.5")  <b>High Res:</b> 380 mm × 380 mm × 254 mm (15" × 15" × 10")	<b>Normal/Standard Resolution:</b> 101.6 μm (0.004")  <b>High Resolution:</b> 50.8 μm (0.002")	<ul style="list-style-type: none"> <li>• Accura 25 (ABS/PP-Like)</li> <li>• Accura Xtreme White</li> <li>• Accura Xtreme Grey (High-Impact ABS-Like)</li> <li>• Accura SL 7820 Black (ABS-Like)</li> <li>• Accura 60 (PC-Like)</li> <li>• Accura ClearVue (PC-Like)</li> <li>• Accura Bluestone (High-Temp ABS-Like)</li> <li>• Accura 48 (High-Temp PC-Like)</li> </ul>	<ul style="list-style-type: none"> <li>• Natural</li> <li>• Standard</li> <li>• Paint-Ready</li> <li>• Painted</li> <li>• Quick Clear</li> <li>• Clearpart</li> <li>• Custom</li> </ul>	As little as 2 business days	<b>Normal/Standard Res:</b> 635 μm (0.025")  <b>High Res:</b> 254 μm (0.015")
<b>Selective Laser Sintering (SLS)</b>  <i>3D Printing</i>	<ul style="list-style-type: none"> <li>• Ideal for durable, impact-resistant, functional parts with a variety of applications</li> <li>• Capable of producing snap fits and living hinges</li> <li>• Excellent heat and chemically resistant</li> </ul>	762 mm × 508 mm × 508 mm (20" × 20" × 30")	101.6 μm (0.004")	<ul style="list-style-type: none"> <li>• Duraform PA (Nylon)</li> <li>• Duraform GF (Glass-Filled Nylon)</li> <li>• Duraform HST (Composite/High-Temperature)</li> <li>• Duraform EX Black (Durable Nylon)</li> <li>• Duraform EX Natural (Durable Nylon)</li> <li>• Duraform TPU (Elastomeric)</li> </ul>	<ul style="list-style-type: none"> <li>• Standard Uncoated</li> <li>• Standard Coated</li> <li>• Paint-Ready</li> <li>• Painted, Dyed</li> </ul>	As little as 3 business days	762 μm (0.030")
<b>Direct Metal Printing (DMP)</b>  <i>3D Printing</i>	<ul style="list-style-type: none"> <li>• Perfect for complex metal parts that need to be manufactured quickly and accurately</li> <li>• Fully dense parts with excellent surface finish</li> </ul>	269.24 mm × 269.24 mm × 400 mm (10.6" × 10.6" × 15.7")	<b>Normal/Standard Res:</b> 60 μm (0.0024")  <b>High Res:</b> 30 μm (0.0012")	<ul style="list-style-type: none"> <li>• Stainless Steel 17-4PH (A)</li> <li>• Stainless Steel 316L (A)</li> <li>• Aluminum (AlSi10Mg) (A)</li> <li>• Aluminum (AlSi12) (B)</li> <li>• Titanium (Ti6Al4V) Grade 23</li> <li>• Inconel 625 (Ni625) (A)</li> <li>• Inconel 718 (Ni718)(A)</li> </ul>	<ul style="list-style-type: none"> <li>• Anodized</li> <li>• EDM</li> <li>• Grinding</li> <li>• Heat-Treated</li> <li>• Milling</li> <li>• Polished</li> <li>• Turning</li> </ul>	As little as 8 business days	254 μm (0.010")
<b>Fused Deposition Modeling (FDM)</b>  <i>3D Printing</i>	<ul style="list-style-type: none"> <li>• Excellent for demonstration models with full color printing</li> <li>• Perfect for architecture, consumer product design, healthcare, educational models, crystallography, medical teaching models, and more</li> </ul>	914.4 mm × 609.6 mm × 914.4 mm (36" × 24" × 36")	177.8 μm, 254 μm, 330.2 μm (0.007", 0.010", 0.013") layers	<ul style="list-style-type: none"> <li>• ABS M30, M30i, &amp; M100</li> <li>• PC, PC-ISO, &amp; PC-ABS</li> <li>• Ultem 9085 &amp; Ultem 1010</li> <li>• Nylon 12</li> </ul>	Standard Paint-Ready Painted	3-5 (maybe longer due to size and quantity)	1524 μm (0.060")
<b>Digital Light Processing (DLP)</b>  <i>3D Printing</i>	<ul style="list-style-type: none"> <li>• DLP delivers ultra-high speed and accuracy, with a wide range of material choices</li> <li>• Ideal for low-volume production and quick-turn prototyping</li> </ul>	124.46 mm × 71.12 mm × 195.58 mm (4.9" × 2.8" × 7.7")	Contact your Sales representative for more information	<ul style="list-style-type: none"> <li>• Pro-Black 10</li> <li>• Tough Blk 20</li> <li>• Med Amber 10</li> <li>• High-Temp 300</li> <li>• Tough 65C Black</li> <li>• High-Temp 150C FR Black</li> <li>• Rigid White</li> <li>• Rubber 65A</li> <li>• Flex Black 20</li> <li>• Rubber Black 10</li> <li>• Rigid Grey</li> </ul>	<ul style="list-style-type: none"> <li>• Natural</li> <li>• Standard</li> <li>• Paint-Ready</li> <li>• Painted</li> <li>• Custom</li> </ul>	As little as 24 hours	254 μm (0.010") (May vary due to geometry)
<b>Multi-Jet Printing (MJP)</b>  <i>3D Printing</i>	<ul style="list-style-type: none"> <li>• Concept modeling</li> <li>• Form/fit testing</li> <li>• Functional prototypes</li> <li>• Jigs/fixtures</li> <li>• Eggshell molding</li> </ul>	11.6" × 8.3" × 5.6"	32 μm	<b>Engineering Class:</b> <ul style="list-style-type: none"> <li>• Visijet Armor</li> </ul> <b>Rigid Class:</b> <ul style="list-style-type: none"> <li>• Visijet M2R-CL</li> </ul>	Standard	As little as 2 business days	254 μm (0.010")

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<b>Cast Urethane</b>  <i>Traditional Manufacturing (MFG)</i>	<ul style="list-style-type: none"> <li>• Ideal for marketing samples</li> <li>• Production-like attributes (surface finish, color, accuracy, and material properties)</li> <li>• Focus groups</li> <li>• Short-run production</li> <li>• Bridge to production</li> <li>• Viable production process for low-volume, high-value programs</li> </ul>	N/A	N/A	<ul style="list-style-type: none"> <li>• ABS-Like</li> <li>• PE-Like</li> <li>• PP-Like</li> <li>• Elastomer (25A, 30A, 40A, 50A, 60A, 70A, 80A, 90A)</li> <li>• Clear</li> <li>• High-Strength</li> <li>• High-Temp ABS-Like</li> <li>• Custom (Glass-Filled)</li> <li>• MRI Transparent</li> <li>• ABS-Like</li> <li>• FDA-Approved Rigid</li> <li>• FDA-Approved Elastomeric</li> <li>• UL94VO Polypropylene</li> <li>• UL94VO ABS-Like</li> <li>• Silicone</li> </ul>	<ul style="list-style-type: none"> <li>• Functional</li> <li>• Show</li> <li>• Clear (Polished)</li> </ul>	First article in as little as 6 business days	635 µm (0.025") (May vary due to geometry)
<b>Injection Mold Tooling &amp; Parts</b>  <i>Traditional MFG</i>	<ul style="list-style-type: none"> <li>• Pre-production and production applications</li> <li>• Functional, process validation, and reliability testing</li> </ul>	N/A	N/A	All available in the market	All available for production	<b>Tooling:</b> 3-6 weeks minimum  <b>Parts:</b> 1-4 weeks (depending on volume)	DFM needed
<b>CNC</b>  <i>Traditional MFG</i>	<ul style="list-style-type: none"> <li>• Pre-production and production applications</li> <li>• Functional, process validation, and reliability testing</li> <li>• Excellent for form, fit, and function tests</li> <li>• Best choice for tighter tolerances and/or surface finishes</li> <li>• Most material-specific finishes available for machined components</li> </ul>	<b>Lathe Diameter:</b> 203.2 mm (8") <b>Lathe Length:</b> 609.6 mm (24")  <b>Mill X:</b> 1016 mm (40") <b>Mill Y:</b> 533.4 mm (21") <b>Mill Z:</b> 457.2 mm (18")	N/A	<ul style="list-style-type: none"> <li>• Aluminum (6000, 7000, &amp; 5000 series)</li> <li>• Brass (100, 200, &amp; 300 series)</li> <li>• Bronze (900 series)</li> <li>• Copper (100 &amp; 200 series)</li> <li>• Stainless Steel (300 &amp; 400 series, 17-4)</li> <li>• Steel (1000 &amp; 1200 series, A36)</li> <li>• Steel Alloys (4000 &amp; 8000 series)</li> <li>• Plastics (ABS, Delrin, Acrylic, G-10/FR4, HDPE, Nylon, Phenolic, Polycarbonate, Polypropylene, PTFE, PVC, Ultem, UHMW, Peek)</li> </ul>	<ul style="list-style-type: none"> <li>• Anodize</li> <li>• Custom</li> <li>• Heat-Treated</li> <li>• Natural</li> <li>• Standard</li> <li>• Paint-Ready</li> <li>• Painted</li> <li>• Powder Coat</li> <li>• Nickel Plating</li> <li>• Tin Coating</li> <li>• Gold Plating</li> <li>• Silver Plating</li> <li>• Black Oxide</li> <li>• Chemical Conversion</li> </ul>	3-15 business days <i>Project Specific</i>	>0.25 mm (>0.0098")
<b>Sheet Metal</b>  <i>Traditional MFG</i>	<ul style="list-style-type: none"> <li>• Pre-production and production applications</li> <li>• Functional, process validation, and reliability testing</li> <li>• Excellent for thin, simple parts, covers, and brackets with simple bends</li> </ul>	1219.2 mm × 1219.2 mm × 5.08 mm (48" × 48" × 0.200")	N/A	<ul style="list-style-type: none"> <li>• Aluminum</li> <li>• Brass</li> <li>• Bronze</li> <li>• Copper</li> <li>• Stainless Steel</li> <li>• Alloy Steel</li> </ul>	<ul style="list-style-type: none"> <li>• Anodize</li> <li>• Heat-Treated</li> <li>• Powder Coat</li> <li>• Paint</li> <li>• Nickel Plating</li> <li>• Tin Coating</li> <li>• Gold Plating</li> <li>• Silver Plating</li> <li>• Black Oxide</li> <li>• Chemical Conversion</li> </ul>	1-4 weeks <i>Project Specific</i>	>0.5 mm (>0.0019")
<b>Die Casting</b>  <i>Traditional MFG</i>	<ul style="list-style-type: none"> <li>• Pre-production and production applications</li> <li>• Functional, process validation, and reliability testing</li> <li>• Excellent for large-volume production, standard-toleranced, metal components</li> </ul>	152.4 mm × 152.4 mm × 152.4 mm (6" × 6" × 6")	N/A	<ul style="list-style-type: none"> <li>• Aluminum</li> <li>• Zinc</li> </ul>	<ul style="list-style-type: none"> <li>• Anodized</li> <li>• Paint</li> </ul>	3-6 weeks <i>Project Specific</i>	Project Specific

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<b>Investment Casting</b>  <i>Traditional MFG</i>	<ul style="list-style-type: none"> <li>• Complex casting patterns - prototype and production</li> <li>• Viable production process for lower volume programs</li> <li>• Excellent for high-volume, production-level components; very beneficial when there are complex features that are better-suited for casting</li> <li>• Functional, process validation, and reliability testing</li> <li>• Alternative to machined, injection-wax tooling</li> <li>• Iterative design opportunities resulting in better time to market vs. Traditional tooled parts</li> <li>• Excellent dimensional stability, especially in large part geometries</li> <li>• Casings, impellers, rotors</li> </ul>	609.6 mm × 609.6 mm × 609.6 mm (24" × 24" × 24")	<b>SLA:</b> 0.002, 0.004, 0.006  <b>Wax:</b> 16 or 42 μm	<b>SLA:</b> <ul style="list-style-type: none"> <li>• Accura CastPro</li> <li>• Accura Fidelity (Antimony-Free)</li> </ul> <b>WAX:</b> <ul style="list-style-type: none"> <li>• Visijet M2 Cast, Visijet M2</li> <li>• Industrial Cast</li> <li>• Stainless Steel</li> <li>• Low-Alloy Steel</li> <li>• Aluminum (AS7G60)</li> <li>• Carbon Steel</li> <li>• Cast Iron</li> <li>• Copper</li> <li>• Zamak 12</li> </ul>	<ul style="list-style-type: none"> <li>• Anodize</li> <li>• Heat-Treated</li> <li>• Powder Coat</li> <li>• Paint</li> <li>• Nickel Plating</li> <li>• Tin Coating</li> <li>• Gold Plating</li> <li>• Silver Plating</li> <li>• Black Oxide</li> <li>• Chemical Conversion</li> </ul> <b>SLA Finishing:</b> <b>Level 1</b> - Support removal, support bumps sanded, holes sealed, leak checked <b>Level 2</b> - Level 1 + build lines lightly sanded, clearcoat applied <b>Level 3</b> - Level 2 + surfaces sanded smooth, clearcoat applied  <b>WAX Finishing:</b> <b>Level 1</b> - Supports intact, requires customer removal <b>Level 2</b> - Support removal, some evidence of build lines, some white discoloration may be visible <b>Level 3</b> - Support removal, build lines smooth, little to no white discoloration	as little as 2 business days	254 μm (0.010")