






# EMS 3D Services Overview

Product Design & Development	3D Scanning	Rapid Prototyping
		
<p>On-staff industrial designers and mechanical engineers for any project large or small.</p> <p><b>Capabilities include:</b></p> <ul style="list-style-type: none"> <li>Market research &amp; analysis</li> <li>Sketching</li> <li>3D Solid modeling – SolidWorks, Pro/E &amp; SpaceClaim</li> <li>3D Rendering &amp; animation -3ds Max</li> <li>3D Virtual Clay sculpting – SensAble Technologies</li> <li>Manufacturing partners – domestic &amp; offshore</li> <li>Concept to final product</li> </ul>	<p>Five different 3D scanning technologies to meet any 3D scanning and inspection needs.</p> <p><b>The latest in scanning technology including:</b></p> <p><b>Z Corp - Z Scanner Z800</b></p> <ul style="list-style-type: none"> <li>Hi resolution</li> <li>Very portable to scan anything anywhere</li> </ul> <p><b>Konica-Minolta – Vivid 9i</b></p> <ul style="list-style-type: none"> <li>Interchangeable lenses for small to large scanning</li> </ul> <p><b>Konica-Minolta - Range 7</b></p> <ul style="list-style-type: none"> <li>The most accurate &amp; detailed laser scanner available. Great for inspection &amp; ultra high resolution scanning</li> </ul> <p><b>Steinbichler – Comet 5 White Light Scanner</b></p> <ul style="list-style-type: none"> <li>Unmatched accuracy and resolution for 3D scanning and inspection.</li> </ul> <p><b>Surphaser – Long Range 3D Scanner</b></p> <ul style="list-style-type: none"> <li>Unmatched accuracy &amp; detail to scan medium to large objects</li> </ul> <p><b>GeoMagic &amp; RapidForm software</b></p> <ul style="list-style-type: none"> <li>Generate surface or solid models compatible with any CAD system. Direct CAD file formats also available</li> </ul> <p><b>SensAble Technologies</b></p> <ul style="list-style-type: none"> <li>Virtual clay sculpting software to change scan data. Great for sculpture &amp; artwork.</li> </ul>	<p>Rapid Prototyping machines operating 7 days a week - 24 hours a day.</p> <p><b>EMS Rapid Prototyping Services include:</b></p> <p><b>Z Corp 3D Printers</b></p> <ul style="list-style-type: none"> <li>24 bit CMYK 3D Color – great for assemblies</li> <li>Fast turn around - 1 day available</li> <li>Low cost – 50% the cost of others</li> </ul> <p><b>Fused Deposition Modeling (FDM)</b></p> <ul style="list-style-type: none"> <li>ABS &amp; Polycarbonate plastic</li> <li>Great for functional or snap fit parts</li> </ul> <p><b>Polyjet - Objet Connex 500</b></p> <ul style="list-style-type: none"> <li>Unmatched precision &amp; detail and the ability to do multiple materials at once</li> </ul> <p><b>Stereolithography (SLA) – Viper Pro</b></p> <ul style="list-style-type: none"> <li>Very good surface finish &amp; detail</li> <li>Many materials including clear and “ABS Like”</li> <li>Large build size</li> </ul> <p><b>DLP 3D Printing</b></p> <ul style="list-style-type: none"> <li>Very high resolution – similar to SLA/polyjet</li> <li>High Strength – stronger than FDM ABS plastic</li> </ul> <p><b>Selective Laser Sintering (SLS) – EOS</b></p> <ul style="list-style-type: none"> <li>Laser sintered nylon powder &amp; metals to including stainless steel &amp; titanium. Very strong parts</li> </ul> <p><b>Urethane Molding</b></p> <ul style="list-style-type: none"> <li>Great for short run production using real plastics</li> </ul>
<p><b>Not all service companies are equal – send us a competitive quote that matches the same technology quoted by EMS and we try to meet or beat that price.</b></p>		

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