



Cutting the edge, and **your** timelines

Traditional injection molding can be slow and costly, especially when complex geometries are involved. We understand that time and budget constraints can be a non-starter, which is why we've invested in Carbon DLS 3D printing technology, allowing you to rapidly prototype and produce intricate parts like lattice structures without the long lead times or high costs of tooling.

BENEFITS OF ADDITIVE MANUFACTURING

- **NO TOOLING REQUIRED**
 - **Save weeks on lead time:** Skip tooling and accelerate production timelines significantly
 - **Iterate quickly** without making costly tool modifications
 - **Save thousands on tooling:** Eliminate tooling and reduce production costs
- **FAST LEAD TIMES**
 - **Quickly iterate** on designs, reducing time from concept to market
 - **Get parts fast**, keeping operations running smoothly with minimal delays
 - **Quickly produce components for trials**, meeting deadlines and adapting to changes
- **SPEED AND SCALABILITY**
 - **Control surface finish** and choose from X of surface finishes in Carbon Design Engine
 - **Print multiple parts** on the same platform without increasing build time
 - **Optimized print speed** enables 0.5 to 2 inches per hour across the build platform



ADDITIVE MANUFACTURING

Your imagination is your only limit

GUIDING YOU THROUGH CARBON DLS™

- **ENGINEERING RESINS**
 - Rigid Polyurethane similar to ABS, PolyCarbonate, Epoxy
 - Elastic Polyurethane similar to Thermoplastic Polyurethane, and TPE's
 - Medical resins include: Biocompatible 10993-5, Cytotoxicity 10993-5, Skin Sensitivity ISO 10993-10
- **CLOSE TOLERANCES**
 - Achieve precision with accuracy within ± 70 micrometers + 1 μm per mm
 - Ensure precision with accuracy within ± 0.003 inches + 0.001 in per in dimension size
 - Customizable slice thickness for optimal detail or faster production. 25, 50 or 100 μm
- **COMPLEX GEOMETRIES**
 - Lattice Structures provide strength while reducing material usage
 - Create Organic or Biomimetic shapes that replicate natural structures
 - Hollow/Internal Channels within a solid part that allow for fluid or air passage

For more information, please scan the QR code below.



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