

CNC Machining

CNC machined parts frequently are the logical step after approving rapid prototypes produced in 3D printing.



Our experts in CNC machining interpret your 3D CAD model and translate your data to toolpaths for CNC machines. This allows you to build your parts in the featured material that you intend for use in production.

CNC machining is the best choice for the prototyping of high-quality metal and plastic parts requiring the greatest degree of dimensional accuracy, critical surface finishes, material-specific properties.

- Highly flexible machines, designed for low volumes
- Broad range of metals/materials
- Very tight tolerances (0.005mm is standard)
- Extensive post-processing capabilities in-house
- Seamless workflow from 3D data to custom quote in 24hrs max



Lead times

Standard: 1 – 2 weeks
Special: 2 – 5 business days per open capacity



Applications

- Electronics Parts Manufacturing
- Engraving Machine Applications
- Machining Composites
- 5 Axis Machining
- Micro Hole Drilling
- Machining Aluminum
- Machining Plastics
- Finishing DMP components



Materials

3D Systems is able to provide a wide range of metals and polymers including Stainless Steel, POM (Acetol), Polycarbonate, PMMA (Acrylic), PA (Nylon), Aluminum, ABS, Brass, Copper, Mild Steel, Magnesium, Foam and Delrin.



Finishing & Post Processing

Our standard surface finish is 63-125 RMS /1.6 - 2.5 Ras. On demand, we can grind or polish the part to 4 - 8 RMS/0.1 - 0.2 Ra. For post-processing, we offer bead blasting, electro polishing, heat treatment, sand blasting and vapor polishing.

General Properties

- Wide range of materials
- Up-to-date, highly flexible machines
- Ability to hold tight tolerances (+/- 0,005mm as a standard)
- Parts machined directly from 3D CAD models
- Email your 3D CAD data, define your project specs and a custom quote will be presented in 24 hours or less
- Turning, Dual Turret Lathe with Live Tooling, 3, 4, and 5-Axis Machining, Heat Treating/Stress Relieving, Welding, Anodizing, and Powder Coating

Contact our team to explore the options best suited to your project's requirements