

Burloak Technologies, part of the family of Samuel companies, is a leader in the design, prototyping and production of complex 3D metal and plastic parts for aerospace, defense, energy and other commercial high-tech sectors using additive manufacturing technologies.

# ADDITIVE MANUFACTURING SOLUTIONS

Burloak Technologies is a leading supplier of highly-engineered additive manufacturing solutions for clients with demanding applications in high-tech industries worldwide. We deliver high quality, lightweight, fully functional additive manufactured parts for low to medium volume applications across a range of industries including space, aerospace, defense, energy, medical, automotive and transportation.

Our In-house engineering, manufacturing and metrology capabilities make Burloak one of the few full-service suppliers in the industry. Together with our clients, we are working to re-create component and process specifications and move additive manufacturing from a prototyping technology to a certified production technology.

## At a glance

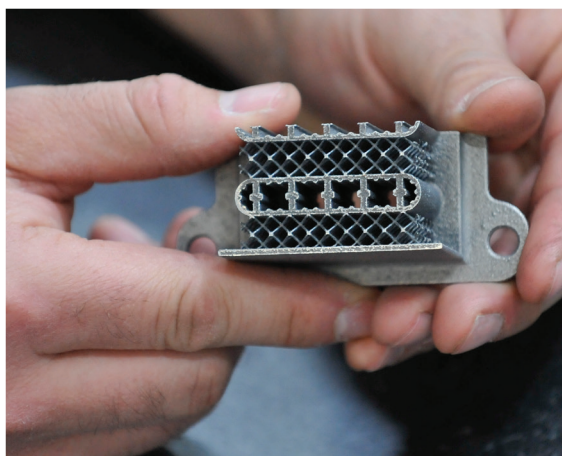
- Rapid Prototyping
- Faster R&D Cycle
- Lightweight Construction
- Efficient Parts Design
- Lower Manufacturing Costs
- On-demand Production

**YOUR SUCCESS IS OUR BUSINESS**



**Burloak  
Technologies**

a division of **SAMUEL**



## LIGHTER, FASTER, STRONGER

Additive manufacturing makes design-driven construction a reality. Enabling the production of complex structures that are strong, stable, lightweight, and simply beyond the capability of traditional subtractive manufacturing techniques, additive manufacturing is transforming industries.

As a strategic supplier and partner to our customers, we strive to deliver new designs that are much lighter and more efficient to produce. With proven capabilities and expertise in engineering, CNC machining, reverse engineering, part finishing, and metrology, Burloak Technologies uses state-of-the-art 3D manufacturing systems to create prototypes plus production and replacement parts directly from digital data and powdered metal or plastic.

By eliminating the need for custom tooling, 3D production means we can deliver cost-effective, on-demand, low volume or full batch production and replacement parts. We are also helping our customers improve parts design by looking for opportunities to combine multiple components within an assembly into a single component. Customers benefit from lower manufacturing costs, eliminating assembly time and the associated risks of damage or joint failure.

## THE SAMUEL ADVANTAGE

At Burloak, we know that helping our customers succeed starts by creating a process-focused organization with a team of people who are committed to delivering transformational solutions. We have further strengthened our organization with the recent decision to become part of Samuel, Son & Co. Ltd. which operates the largest family-owned metal service center network in North America.

According to Peter Adams, President, Burloak Technologies: "I strongly believe this deal will deliver a level of stability and scale to the additive supply chain that both larger manufacturers and specialty players have been waiting for. It combines the stability, expertise and financial strength of a 160-year-old North American powerhouse in the metals market, with the passion for transformational engineering and manufacturing solutions that is part of the Burloak culture."

[sales@burloaktech.com](mailto:sales@burloaktech.com)  
[burloaktech.com](http://burloaktech.com)

+1 905-592-0244

### DESIGN & ENGINEERING

- 3D CAD Modeling and Drafting
- Engineering
- Reverse Engineering

### ADDITIVE MFG & FINISHING

- Direct Metal Laser Sintering (DMLS)
- Selective Laser Sintering (SLS)
- 5 Axis CNC Machining
- 4 Axis CNC Turning
- 3 Axis CNC Milling
- 4 Axis Wire EDM
- Polishing (internal and external), plating, honing, lapping, heat treatment, painting

### METROLOGY & QUALITY

- Hi Definition Laser Scanning
- Long Range Laser Scanning
- High Speed CMM

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**ABOUT US** Founded in 1855, Samuel, Son & Co. is a family-owned and operated, integrated network of metal manufacturing, processing and distribution divisions.

With over 4800 employees and 100+ facilities, Samuel provides seamless access to metals, industrial products and related value-added services. Supporting over 40,000 customers, we leverage our industry expertise, breadth of experience and the passion of our people to help drive success for North American business – one customer at a time.



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