

## Precision Metal Manufacturing Capabilities

Greetings!

For over 37 years, Penn United, has been taking pride in handling complex, precision tasks, and in the creative solutions we provide to our customers' toughest applications. Our ISO-certified factory is completely committed to your satisfaction.

Our "one-stop-shop" services provide you with supply chain simplification and allow for improved control of the overall process for your products.

We offer a complete range of precision metal manufacturing capabilities focusing on our core products and services:

- Prototyping
- Metal Stamping Dies
- Metal Stamping
- Precision Machining
- Tungsten Carbide and Silicon Carbide Components
- Electro-Plating (reel-to-reel) - *both precious and non-precious metals*
- Product Assembly
- Automated Equipment
- Precision Grinders and Spindles
- Hand Tools

We invite you to contact us with your manufacturing challenges. Penn United will provide you with **world class precision solutions**, helping you **simplify your supply chain issues**.

### Quick Links

[www.pennunited.com](http://www.pennunited.com)

[Prototyping](#)

[Tool & Die Group](#)

[Stamping, Plating & Assembly](#)

[American Carbide Tooling](#)

[Penn United Carbide](#)

[Automation](#)

[Parker Majestic](#)

[PennTek Tools](#)

### Contact Us

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### Prototype

We can work with your design development team or develop the manufacturing strategy that meets your goals for your new or existing product. Our range of manufacturing capabilities and extensive prototype tooling experience can be utilized to quickly provide you with sample parts, with the ability to progress into low volume or high volume production operations. We can simplify your supply chain by providing any or all of the services you need.



### Precision Dies & Stamping

Penn United has the comprehensive knowledge needed to produce the highest quality stamping dies, giving customers durability, and maintaining the highest degree of accuracy. Whether designing, building, maintaining a die, Penn United is committed to 100% customer satisfaction.



We manufacture dies for low-to-medium and high volume applications, matching the right precision metal stamping die features to your specific needs and tolerances. Our commitment to customer satisfaction does not end with each shipment. Maintenance of customer dies is just one more value-added service that we provide.

If your need is to outsource your stamping job, our high speed stamping operations can accommodate up to 1,000 strokes per minute, incorporating years of high-precision process knowledge. For high volume applications, we have complete die maintenance expertise. If your application is low volume, we are accustomed to handling customers' cyclical demand schedules.

### Precision Machining

Our machining group specializes in high precision machining for critical-application components. We stand ready to become your premier source for challenging machining jobs. Our experienced machinists, state of the art equipment, over 100,000 square feet of dedicated machining space, and quality assurance expertise (first article inspection reports, CMM capabilities, and inspection reports) are our foundation to providing you with the products and services to fulfill your machining needs. Common materials machined include: most stainless steels, monels, nitronics, aluminum, copper, brass, Inconel, carbon steel, MP35N, and others.



### American Carbide Tooling

We are an industry leader in the manufacture of tungsten carbide components. We offer a large inventory of catalog products and specialty items available to meet your requests.

- carbide punches and inserts
- carbide bushings
- carbide pilots
- mold and EDM inserts
- compaction, form and cold header tooling



### Electro-Plating

Whether your application entails low or high volumes, our reel-to-reel plating lines are flexible and can accommodate many different components. Options include selective stripe, spray, controlled depth, brush and overall plating. Finishes include copper, nickel, pure palladium, palladium nickel, gold, tin, various tin/lead alloys, and lead free RoHS compliant chemistries, including matte and bright finish options. Black oxide rack and barrel and electro-less nickel rack capabilities are also available.



### Carbide Manufacturing

Whether your component application calls for tungsten carbide or silicon carbide, Penn United Carbide offers a diverse portfolio of carbide grades specifically manufactured to provide optimum performance in critical service applications. By controlling the process from raw material through finished ground components, our talented and dedicated manufacturing teams work with each customer to ensure their manufacturing objectives are obtained.



### Product Assembly

Our Product Assembly Services are provided to our customers as a key element in the range of manufacturing capabilities we offer. Improving our customers' supply chain management efficiencies by utilizing our skill, dexterity, and continual dedication to process improvements is another way that Penn United will help you achieve your internal manufacturing objectives.



### Automated Equipment

Our Automation Group combines over 37 years of precision manufacturing expertise to create a unique approach to automation. We offer automated in-line processes, turnkey precision assembly systems, automated inspection stations, flexible robotic work cells, and part handling solutions, which will meet and exceed your manufacturing project needs.



### Precision Spindles and Grinders

Parker Majestic, a division of Penn United, offers a line of CNC line of surface and ID/OD grinders that focus on manufacturing functionality and flexibility. For the past 79 years we have provided innovative grinding machines for the machine tool and manufacturing industries. Combining our legendary precision grinding technology with state of the art Siemens controllers has resulted in extremely accurate, yet versatile machines. Additionally, Parker Majestic designs and manufactures custom spindles for a variety of applications.



### Hand Tools

PennTek Tools was established to develop and manufacture innovative tools, accessories and solutions for the hand tool industry. Our mission is to actively and ethically work with individual inventors, and develop concepts from our talented employee-owners to bring unique tool ideas to the industry.

