



Smith & Wesson

Precision Components[®]

PUT A LEGEND

ON YOUR LINESM

- FORGING
- HEAT TREATING
- PLATING AND FINISHING
- PLASTIC INJECTION MOLDING

For more than 150 years, Smith & Wesson has been a leader in firearms design and manufacturing — known for creating some of the finest products in the industry. Those products have set a standard against which others are judged — and the workmanship behind them has made Smith & Wesson one of America's legendary brands.

You can put that legendary manufacturing skill to work for you.

Precision Components for Demanding Applications

Smith & Wesson is known for its high degree of quality: lives literally depend on our products' performance. This means our services aren't geared for everyone. We offer a premium level of quality. And while we offer that level to any customer who wants to work with us, we are perfectly suited for industries with unique needs and specifications:



MEDICAL



AEROSPACE & DEFENSE



OIL & GAS



AUTOMOTIVE

PRECISION MANUFACTURING

A modern firearm is an amazingly complex machine. Smith & Wesson's are known for their quality because of our excellence in engineering — and the high-quality workmanship in a host of precision manufacturing processes.



FORGING

The renowned strength of our products is the result of precision forging. Our state-of-the-art engineering and forging processes allow us to produce near-net-shaped forgings, minimizing excess material. We're capable of producing small components that weigh only a few ounces to 20-pound parts up to 15 inches in length. Our drop hammers range in size from 1,500 to 5,000 pounds, and we have a 1,500-ton press for aluminum and scandium.

HEAT TREATING

Our products are known for their durability and dependability. High-quality precision heat treating is part of the reason why. We enhance the physical properties of our components through state-of-the-art annealing, hardening, tempering, carburizing, stress relieving and other processes.

Electronic controls ensure treatment of precise specifications with minimum distortion to ensure your specific requirements are met. We also offer a variety of controlled quenching atmosphere processes such as oil, nitrogen, vacuum, salt and water.

PLATING & FINISHING

What gives Smith & Wesson products the deep, rich blue they are known for? Our world-class metal plating and finishing capabilities. They include a variety of metal finishing processes from polishing, buffing and sandblasting to isotropic vibratory finishing.

Our processes are adaptable to batch, barrel or tumbling and racking methods of component handling for parts up to 60 inches in length.

PLASTIC INJECTION MOLDING

Advances in materials and in molding and toolmaking technology have opened virtually endless possibilities for injection-molded plastic components. Our molding capabilities include 51 injection molding machines, from 28-ton to 730-ton, 90-ounce capacity, with capabilities for:

- Insert and overmolding
- Auxiliary equipment, including heaters, chillers, loader and material dryers
- A wide range of thermoplastics, including engineered polymers

Our PIM operation is supported by complete in-house toolmaking facilities, ultrasonic and vibration welding, ultrasonic insertion, hot stamping, pad printing and other secondary services, and assembly and performance testing.

SUPPORT SERVICES

Smith & Wesson Precision Components' manufacturing operations are complemented by complete secondary and support services. They allow you to count on one supplier, from raw material to finished component, all under "one roof." Those services include:

- Mechanical, material and process engineers to help design, create specifications for and plan production of your component
- Metallurgy lab, for in-depth testing of component performance properties such as hardness, stiffness, tensile strength, shear strength, etc.
- Metrology lab, ensuring that the most demanding tolerances are met and maintained
- Complete CNC machining operations

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Let's explore how the legendary workmanship of Smith & Wesson can help maintain or improve your manufacturing quality and efficiency. To learn more, visit SWPC.com, email us at Info@SWPC.com or call us at 413.747.3482.

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