



STATE SEAL COMPANY

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CAPABILITIES GUIDE



INNOVATING FOR EXCELLENCE

For more than 50 years, State Seal Company has been a model of reliability and unsurpassed value. Today, as a recognized innovator in the industry, we continue to provide our customers with exceptionally high levels of service and quality.

MARKETS SERVED



AEROSPACE

Machinery and components for Air and Space environments.



MILITARY

Government weapons, vehicles, surveillance and security.



AFTERMARKET | HIGH PERFORMANCE

Racing/Performance for Motorcycles, Marine and Automotive Engines.



POWER GENERATION

Electrical power generation facilities.



CHEMICAL

Chemical processing producing a wide variety of solid, liquid and gaseous materials.



RENEWABLE ENERGY

Naturally replenished energy from sunlight, wind, rain, tides and geothermal services.



CONSUMER

Appliances, consumer electronics, water systems and food & beverage equipment.



SEMICONDUCTOR

Design and fabrication of semiconductor devices.



FLUID POWER

Hydraulic and pneumatic systems or components.



SMALL ENGINE

Two and Four Cycle engines used in lawn and garden equipment.



GENERAL INDUSTRIAL

Manufacturing or processing of products or components.



TELECOMMUNICATIONS

Transmission of signals over a distance for the purpose of communications.



LIFE SCIENCES

Medical devices, diagnostic & lab equipment and pharmaceutical manufacturing.



TRANSPORTATION

Railways, subways and marine.



KEY PARTNERS

State Seal supplies a comprehensive range of sealing, gasketing and damping components. As an authorized stocking Distributor/Fabricator for the leading brands in the industry, we offer our customers a single source for all their sealing and die-cut components.





TAPES / ADHESIVES / FILMS / FOILS

Thin gauge products used in a variety of applications. Materials used in bonding, masking and fastening environments.



FOAM / VIBRATION CONTROL / ACOUSTICAL CONTROL

To filter water and air, and as a barrier to control debris. Environmental sealing applications for weather-proofing components. To absorb vibration, provide acoustic insulation and noise damping.



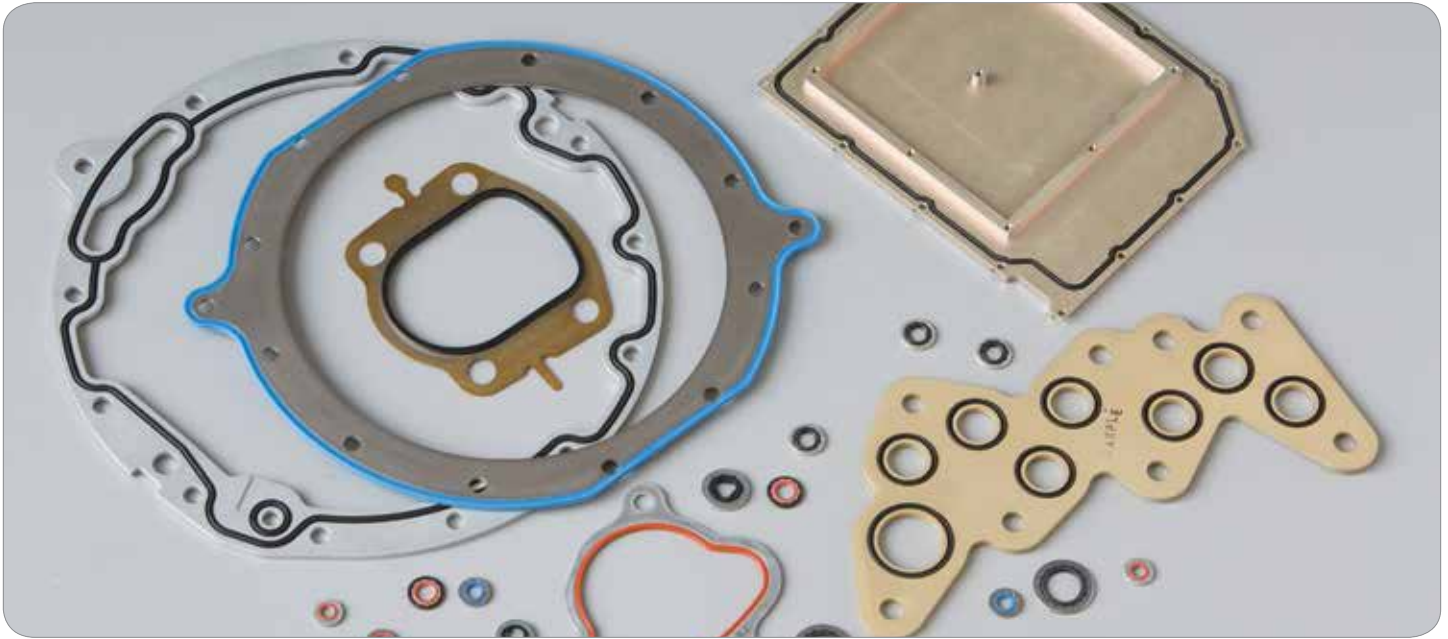
RUBBER MOLDED PRODUCTS

Molded rubber products for sealing systems and isolation applications. We offer full design and engineering support to assist our broad base of customers in obtaining the highest quality custom molded shapes.



THERMAL MANAGEMENT / EMI / RFI

To absorb and/or distribute heat to protect surrounding components and instrumentation. Used in combating Electro Magnetic Interference or Radio Frequency Interference (RFI). Conductive elastomers have the ability to provide good electrical conductivity across an uneven interface between the flange and the gasket.



COMPOSITE SEALS

Composite Seals provide sealing solutions for the most technically demanding industries. Standard rubber-to-metal and rubber-to-plastic seals are available in a wide assortment of sizes, tolerances, and configurations. Custom composite seals can be engineered to meet the specific requirements for your project.



EXTRUDED PRODUCTS

Elastomeric rubber/plastic tubing and hose. Custom and standard profiles. Conductive and non-conductive compounds. Solid and sponge rubber materials for environmental sealing. Hardened and flexible materials for edge and trim applications.



THE POWER TO PROCESS

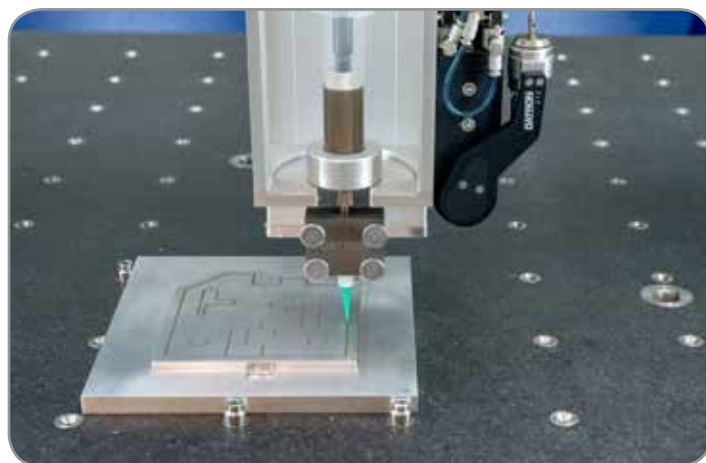
FABRICATION CAPABILITIES:

Our extensive equipment and tooling capabilities enable us to process any part. From small to large, from 10 to 10 million in volume, we have the resources to make it happen.

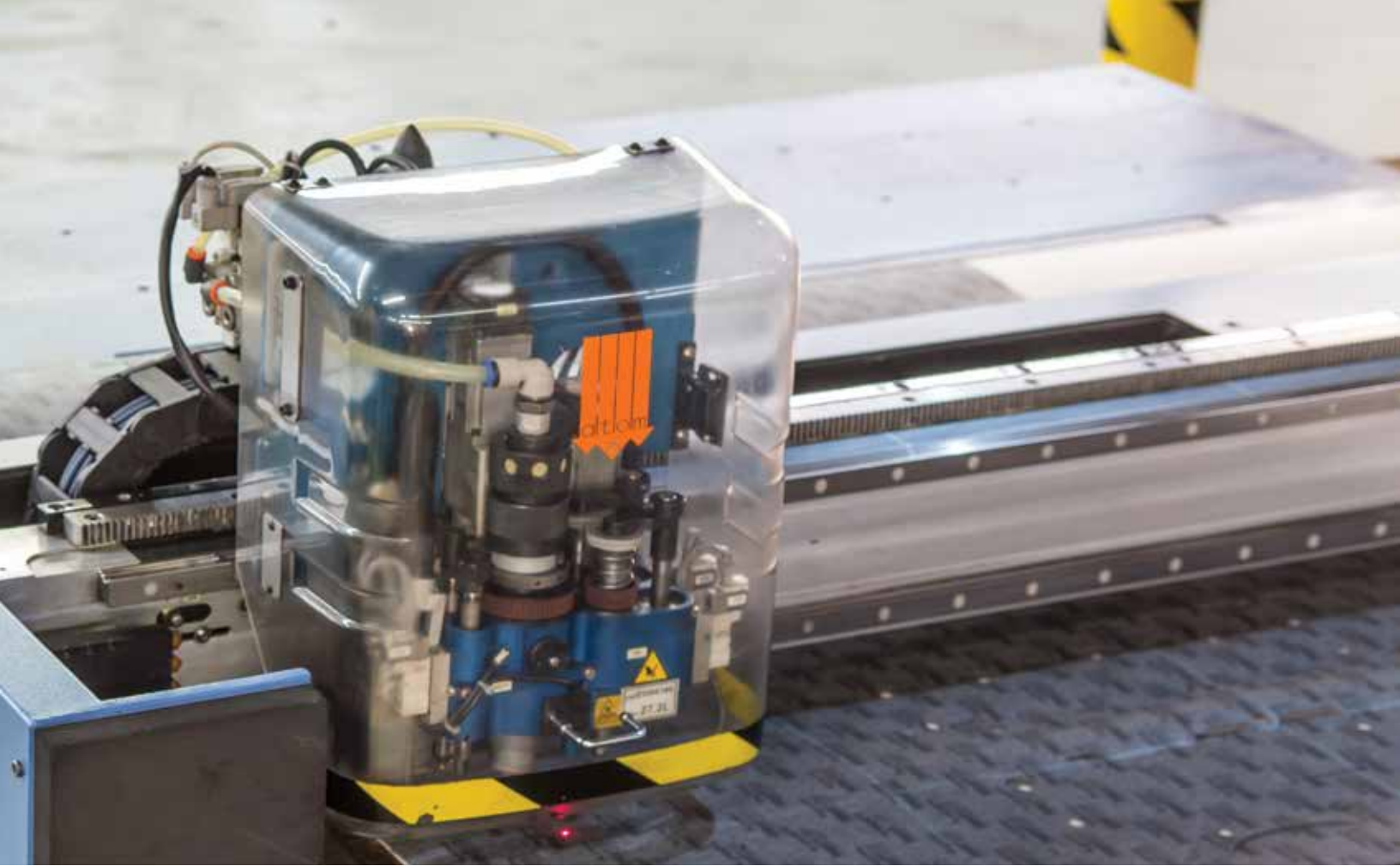
With the ability to support both rapid prototyping and volume production, State Seal can be your one-stop-shop for a wide variety of components.

Our highly trained and technically oriented sales staff is ready to offer product selection assistance as well as design and engineering support.

- » Forming
- » Compound
- » Progressive
- » Steel Rule Die Cutting
- » Rotary Die Cutting
 - » Kiss Cutting & Rewind
- » Die-Less Cutting
 - » Rapid Prototyping
- » Sheeting, Slitting and Laminating
 - » Pressure Sensitive Adhesive (PSA)
 - » Custom Sizing
- » Form in Place
- » Custom Splicing and Bonding
 - » Custom Spliced O-Rings
 - » Picture Frame Seals
- » Pad Printing
- » Custom Part Marking



Form-In-Place



DIE-LESS KNIFE CUTTING:

Our state of the art Die-less knife cutting machine, gives State Seal the capability to process parts quickly. The fully programmable CNC oscillating head can cut a wide array of materials providing improved tolerances, yield and cleaner edges than traditional cutting methods.

- » *Rapid Prototyping*
- » *Testing Samples*
- » *Import CAD/DXF Files*
- » *Proof of Concept*
- » *Low Volume Production*
- » *Table Dimensions 120" x 61"*





THE TOOLING

STATE SEAL TOOLING ADVANTAGE:

State Seal is equipped with a variety of equipment to meet the needs of every application and budget. A tooling investment demands consideration of many factors including: volume, material, application, and part design. For low volume applications, where a tooling investment is impractical, we offer the low cost Steel Rule Die cutting solution. For high volume parts, the most economical solution to ensure consistent quality and reduced labor and handling requires investment in Hard Tooling.

HARD TOOL

- » *Made from D2 heat treated steel*
- » *Hold tight tolerances (+/- .005" on die)*
- » *Holes and slugs removed automatically, cuts intricate shapes and hard materials*
- » *Long tool life with the ability to run large volume production - up to 500,000 cycles between sharpening intervals (pending material type)*



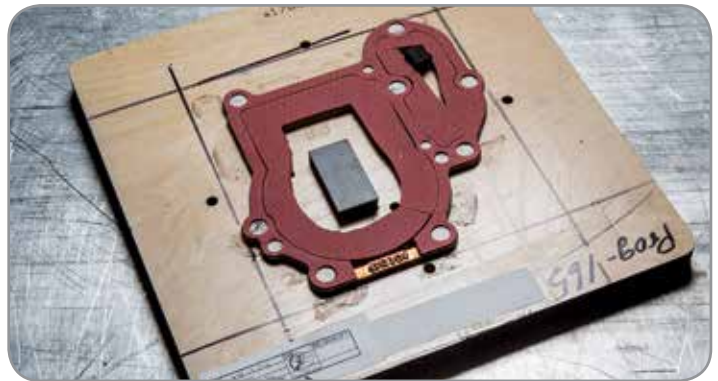
High Capacity Punch Press with Compound Hard Tool



AND EQUIPMENT

STEEL RULE DIE

- » Standard washers ID/OD
- » Quick turn-around
- » Made from stabilized ply-board, laser cut with steel rule bent and inserted
- » Tolerances typically (+/- .010")



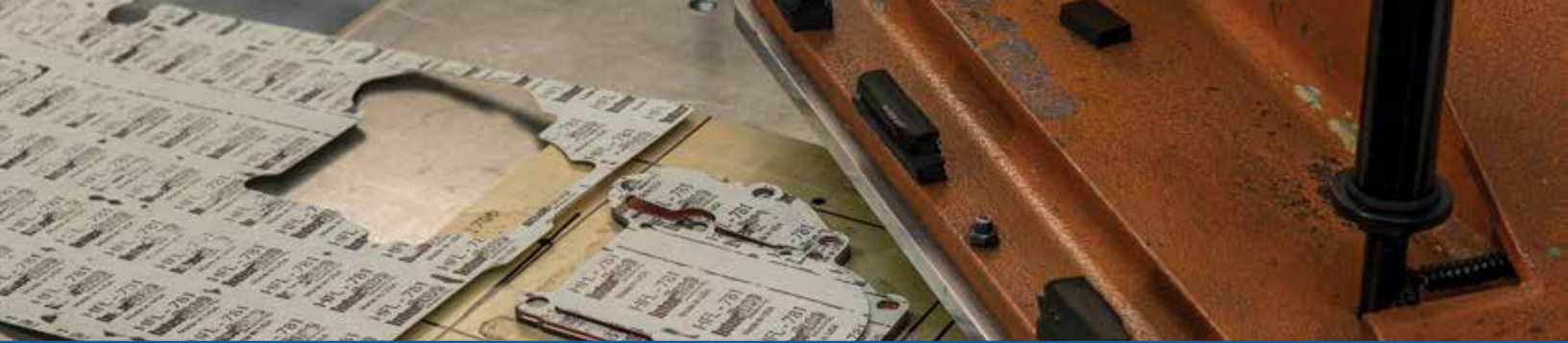
Steel Rule Die

ROTARY FORMAT DIE-CUTTING

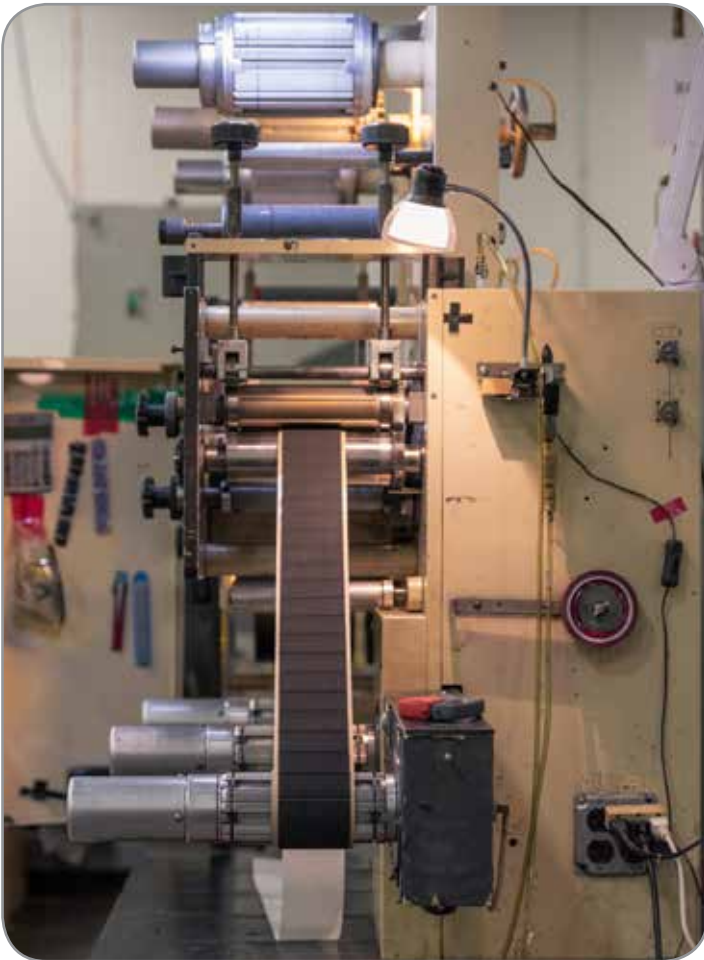
- » Custom and standard tooling
- » Kiss cutting
- » Zoned adhesive
- » High speed



Rotary Tool



FOR EVERY SIZE JOB.



Rotary Die-Cutting



Travelling-Head Nesting



Automated Stamping



Die-Less Knife Cuttings



MATERIALS

RUBBER

- » Buna-N
- » Butyl
- » Coated Fabrics
- » Cork/Rubber Composites
- » EPDM
- » EPT (Ethylene Propylene Terpolymer)
- » EVA (Ethylene Vinyl Acetate)
- » Gum
- » Kalrez™
- » Molded and Extruded
- » Natural
- » Neoprene
- » Nitrile
- » PVC
- » Red Rubber
- » Santoprene™
- » SB® (Styrene Butadiene)
- » Silicone
- » Urethane
- » Vinyl (PVC)
- » Viton®

PAPERS, FILMS & FOILS

- » Aluminum and Copper Foil
- » Cork
- » Fiberglass Cloth/Foil
- » Fiber Reinforced Gasket Materials
- » Fish Paper
- » Flexible Graphite
- » Formex®
- » Interface Solutions Materials (formerly Armstrong)
- » Kapton® (Polyimide)
- » Nomex
- » PETG
- » Polymask®
- » Specialty Papers
- » UHMW (Ultra High Molecular Weight)

PLASTICS

- » ABS
- » Acrylic
- » HDPE (High Density Polyethylene)
- » LDPE (Low Density Polyethylene)
- » Lexan® (Polycarbonate)
- » Mylar® (Polyester)
- » Nylon
- » Phenolic
- » Teflon®

FOAMS

- » Bisco (Silicone Foam)
- » ECH (Epichlorohydrin)
- » EPDM
- » EVA (Ethylene Vinyl Acetate)
- » LDPE (Low Density Polyethylene)
- » Neoprene
- » Polyethylene
- » Polyurethane (Open Cell)
- » Poron® (Cellular Urethane)
- » PVC/NBR
- » Reticulated/Filter
- » Silicone
- » Sponge
- » Volara® (Cross Linked Polyethylene)

EMI/RFI

- » Conductive Tapes and Adhesives
- » Fabric Reinforced
- » Microwave Absorbing
- » Particle Filled Elastomers
- » Wire Oriented

THERMAL

- » Gap Pads/Filters
- » Heat Sinks
- » Insulator Pads
- » Phase Change Materials
- » Tapes and Adhesives

RECLOSABLE FASTENERS

- » 3M™ Dual Lock™
- » 3M™ Scotchmate™ Hook-and-Loop

TAPES

- » 3M™ VHB™
- » Adhesive Transfer
- » Cross Linked Polyethylene Foam
- » Double Coated Tape
- » Masking
- » Removable Tapes
- » Single Coated Tape
- » Specialty

Contact us for additional material offerings



SOLUTIONS THAT ADD STRATEGIC VALUE

To complement our expansive product line, we offer a number of strategic services to support our customers in maximizing their efficiency.



INVENTORY MANAGEMENT:

Kanban, Vendor Managed Inventory (VMI), Consignment, stocking programs along with specialized or customized programs.

PACKAGING/LABELING:

2/3D Bar-coding, Individual/lot segregation, Packaging in accordance with AMS 2817 and Mil STD 130.

LIGHT ASSEMBLY:

Kitting, part marking, subassemblies.

ENGINEERING SUPPORT:

Final design and application guidance, material selection, drawing services (CAD).





QUALITY ASSURED EVERY TIME

Our success is founded on customer satisfaction through consistent high quality.

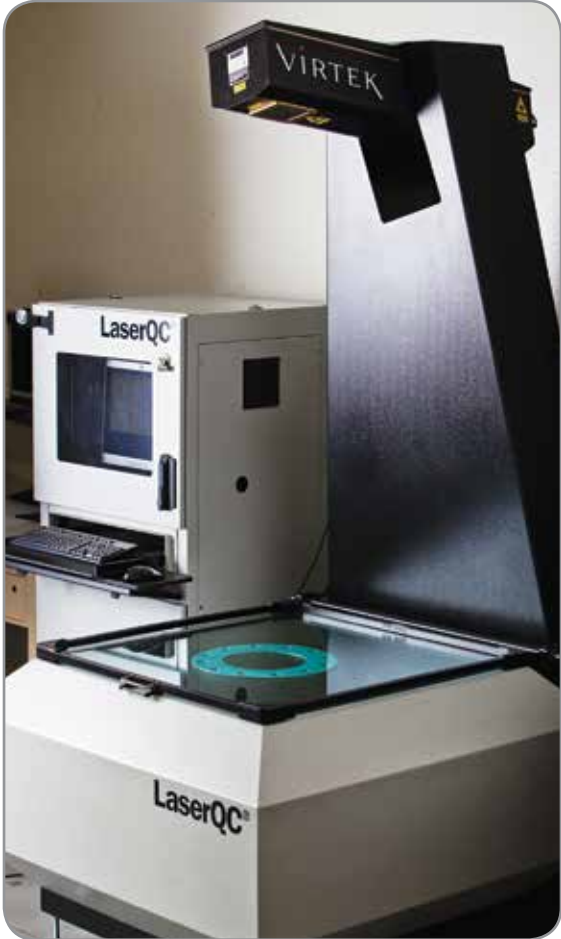
Utilizing the latest in measuring technology, our in-process inspection ensures all parts meet specifications. State Seal Company is registered ISO9001/AS9100 and committed to the continuous improvement of our quality system.

**AS9100
Certified**



In addition, our laser inspection machine and software provides a non-contact system that can be used for Statistical Process Control (SPC), deviation analysis and reverse engineering.

We also provide all necessary documentation, from a simple Certificate of Conformance to complete certification packages such as Pre-Work Authorizations (PWAR), AS9102 first article (FAIR's), APQP Level 3 PPAP's and customer specific documentation. It's all part of our dedication to quality every day.





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