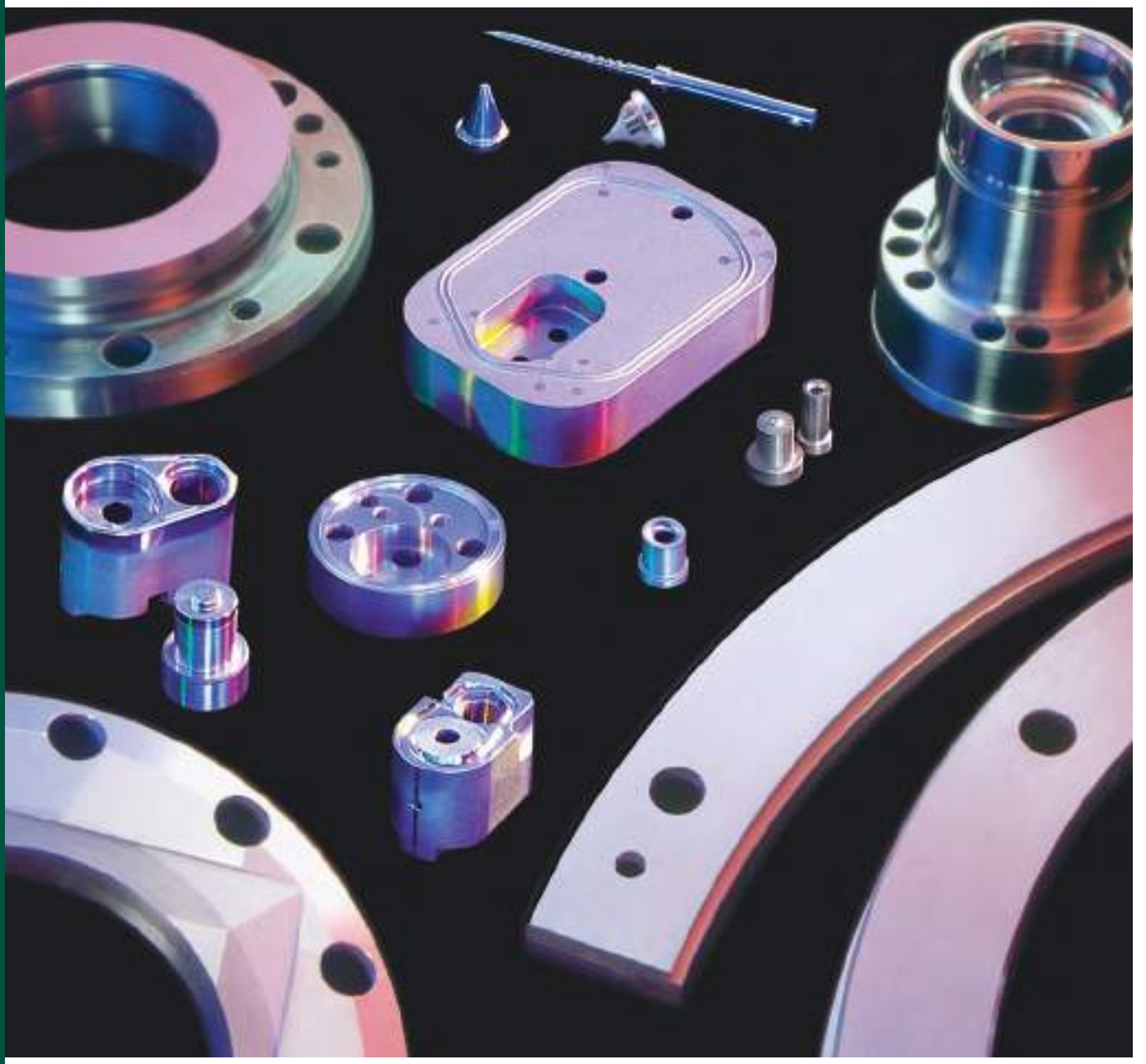
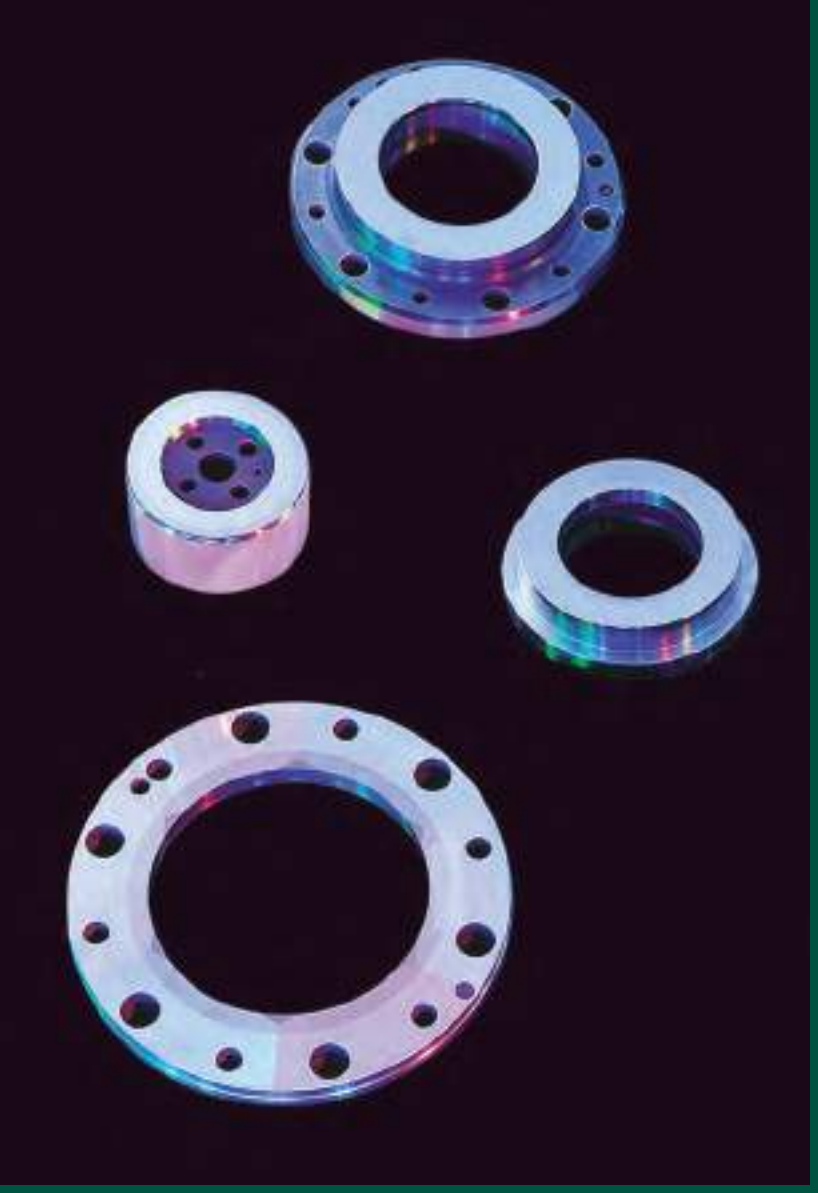
Metal Packaging Tooling Solutions

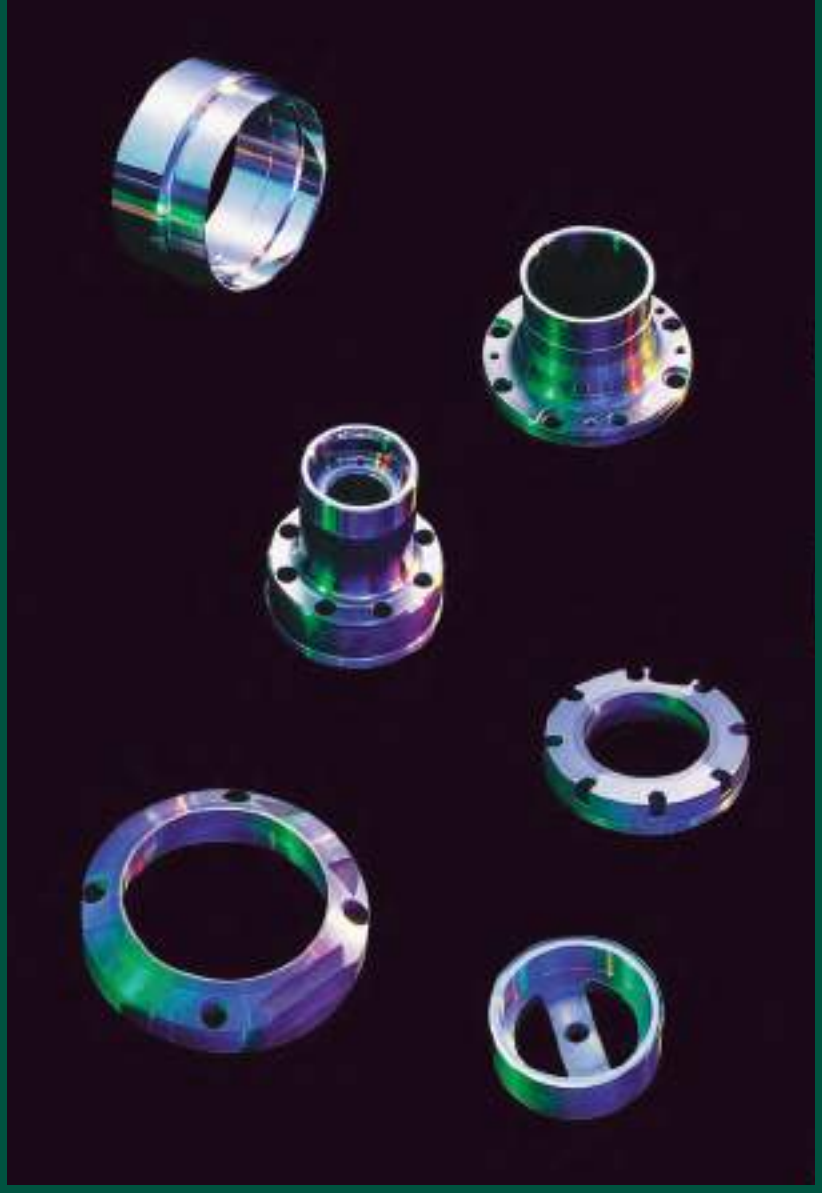


Oberg Industries

PASSION FOR PRECISION MANUFACTURING



Cupper Tooling



Shell Tooling

Metal Packaging Tooling Solutions With Value

Oberg Industries specializes in manufacturing precision tooling used to produce food and beverage cans and ends. Leading manufacturers around the world have been relying on Oberg's quality precision products and manufacturing experience for over 50 years.

A Variety of Software Platforms

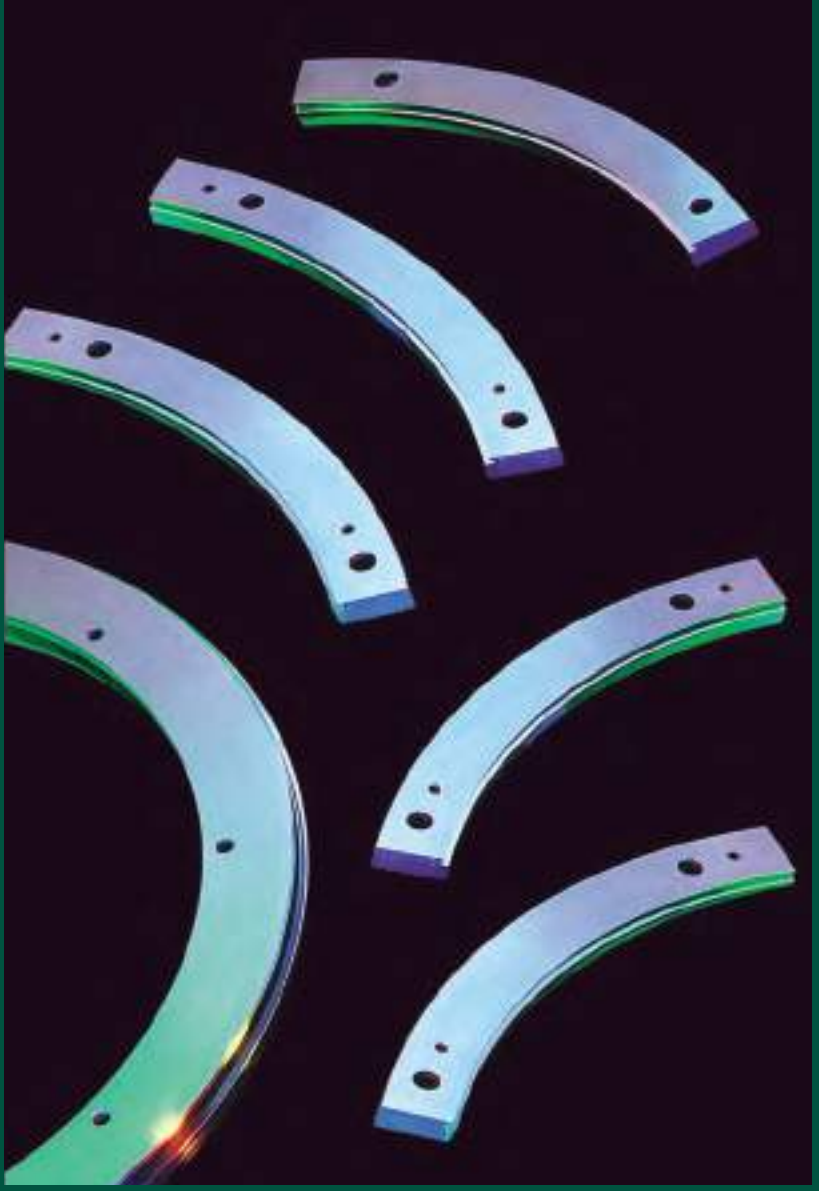
Our engineers use 3-D modeling CAD/CAM software such as Siemens Unigraphics and others to more easily and accurately visualize finished components. Use of 3-D modeling also improves coordination with CNC programmers with less chance for errors and allows for easier communication with customers.

Engineering and Design Support

Oberg engineers provide design support to assist with prototyping and manufacturing your specific production tooling. They will collaborate with your design team using value-added/value-engineering practices to achieve on-going design and productivity improvements.

Quality Driven

Quality is assured. Oberg's manufacturing facilities operate in strict compliance with ISO 9001:2015 standards. Our experienced, highly skilled personnel work in our well-equipped facilities located in the U.S.A. and Costa Rica to meet your domestic or LCC sourcing initiatives. Oberg uses our own state-certified apprenticeship program and other on-going training resources to maintain our skilled workforce.



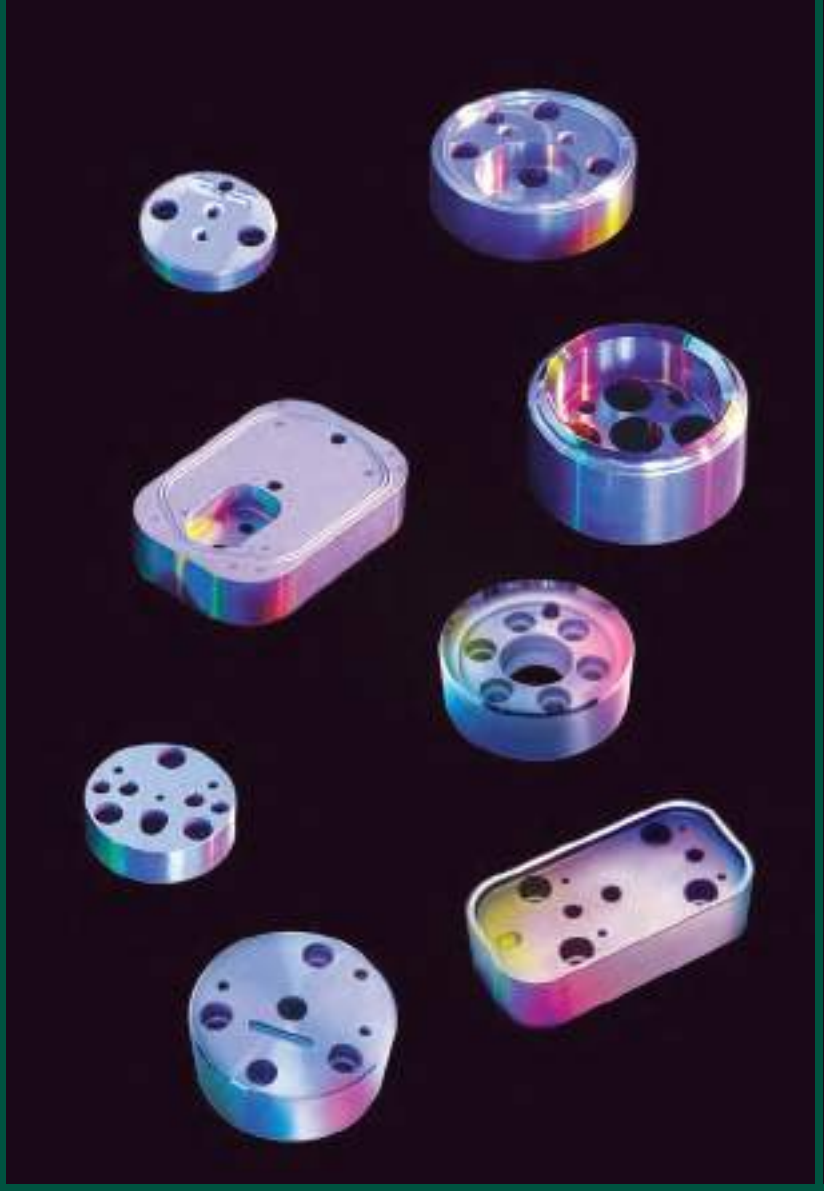
Curling Rings & Segments

Draw/Redraw Tooling

We use both the Zeiss Contura G2 CMM and Zeiss ContouRecord Tracer for final and in-process part inspection. Our tungsten carbide expertise is unmatched. We do constant research, analysis, and implementation of carbide grades focusing on tooling and wear applications. Carbide preforms are dimensionally checked and metallurgically inspected to confirm that the specified carbide grades qualify for part production.

Made Right Using the Finest Materials

Our manufacturing capabilities combine a broad range of high-precision machines with high-speed CNC equipment to provide milling, turning, surface and jig grinding, and wire and sinker EDM. Oberg manufactures food and beverage tooling from a wide range of quality tool steels, carbides, and ceramic materials designed for high performance and long service life. Tooling is typically made to close tolerances within ±.0001 inch or better in a temperature-controlled, laboratory-type environment. Heat treating, combined with -300° F cryogenics, maximizes the structural composition of the tooling and is provided in-house to reduce lead times while meeting specific customer requirements. Hardness readings and heat cycles are tracked and documented for traceability.



Carbide Score Tooling

Rivet & Tab Tooling

Tooling Rework Programs – For Carbide Scores, Cupper and Shell Tooling, and Scroll Dies

We have a variety of rework programs that can be tailored to fit your requirements. Our programs consist of sharpening, polishing, lapping, and reworking radii to maintain optimum tooling performance. Reconditioning of carbide scores can greatly extend useable life of a tool at far less cost than the price of a new score. We have reworked scores 10+ times achieving identical manufacturing performance results as a new, original tool. Maximum care is taken during the rework process to ensure that micro-fractures are eliminated with our seven step in-process inspection method. Materials, applications, stack heights, radii, blends, finishes, wear issues, clearances, and other key elements are constantly challenged and reviewed to make certain we deliver only the highest quality tooling. Complete inspection, repair, and sharpening of primary and secondary scroll dies is performed by our die experts.

Standard and Premier Designs

Carbide Primary and Secondary Scroll Dies

Standard Scroll Dies have one-piece, pedestal style, precision machined, steel punch and die shoes to help maintain alignment. Our Standard Scroll Dies have $^{5}/_{8}$-inch thick carbide relieved cut-edges to minimize cost and reduce grinding time during servicing. Cut-edges are located with $^{1}/_{2}$-inch dowels against a step in the punch and die shoe to provide accurate positioning of segments and easy serviceability.

Premier Scroll Dies are designed for high volume production runs and feature precision machined cast iron punch and die shoes which are less likely to bow or twist. Oberg guarantees accurate positioning of the cut-edge segments. Each segment is designed to fit securely in channels that are precision machined into the castings and located with 1-inch dowels. Premier Dies have 1-inch thick carbide cut-edges that provide longer tool life helping to keep the die operating for extended periods of time.

Both Designs Have Additional Benefits

Ground internal and external radii on all cut-edges eliminate corner burrs and reduce cut-edge wear in those areas. Die components are 100% guaranteed interchangeable minimizing downtime with repairs often done onsite.

Take advantage of our spare parts packages that can be customized to fit your needs providing additional cost savings and faster deliveries. Our experienced die technicians service all dies and are available to train customer personnel in set-up and service techniques. Please contact us for more details.

Company Profile

- Founded in 1948
- Manufacturing facilities located in Pennsylvania, Illinois and Connecticut
- 450,000 sq. ft. of manufacturing space
- Manufacturing facilities operate under one or more of the following certifications: ISO 9001:2015, ISO 13485:2003 and AS9100:2009 Rev. D, FDA and ITAR registered
- Specialize in multi-axis machining, turning, wire and sinker EDM, grinding, lapping, metal stamping, gun drilling and tooling
- Market focus: Aerospace, Energy, Medical, Metal Packaging, and Consumer/Industrial
- In-house technology group develops creative manufacturing solutions to provide customers with a competitive advantage
- 92 multi-axis machining centers
- Focus on integrating new technology to enhance design-for-manufacturing (DFM)
- Proprietary "advanced grinding technology" –Molecular Decomposition Process (MDP®)
- Design for Additive Manufacturing and Post Processing
- Over 50 stamping presses with capacities from 5 to 400 tons
- Custom automation and work cell experts
- Continual investments in new equipment and technology
- In-house state and federal approved competency-based apprentice training
- International sales and support

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