

Engineering Precision Maximizing Performance

Enhancing Aerospace Fasteners with Precision
Tooling Solutions



Major Industries Ltd
Hot & Cold Forming Tooling Specialists

Leading Tooling Solutions for Aerospace Fasteners

For over 40 years, Major Industries Ltd. has been a trusted leader in producing precision tooling for the aerospace industry. Specializing in cold and hot forming tooling, we provide aerospace fastener manufacturers with the solutions they need to meet stringent quality standards while optimizing production efficiency.

We understand the critical nature of aerospace components, and our high-performance tooling ensures that every fastener meets the exceptional requirements of this highly regulated industry.



Comprehensive Tooling Capabilities

At Major Industries Ltd., we offer a comprehensive range of tooling designed to meet the exacting standards of aerospace fastener production.

Dies

Crafted for the precision shaping of aerospace fasteners, our dies deliver consistent, high-quality results, ensuring every part meets your rigorous dimensional and strength requirements.

Punches

Built to handle high-strength materials and repetitive use, our punches ensure precise cutting and shaping of fasteners without compromising the integrity of the part, even under extreme pressure.



Inserts

Our die inserts offer superior wear resistance, ensuring longer tool life and reducing the need for frequent replacements—critical for maintaining production timelines and cost efficiency in the aerospace industry.



Value-added Service

We partner with customers to tackle tooling challenges head-on, analyzing materials, heat treatments, and coatings, and using our advanced metallurgical lab to uncover solutions that boost performance and extend tooling life.



Material & Process Excellence

We manufacture our tools using a wide selection of steel and carbide grades, each chosen to suit specific operational demands. These materials are processed internally with:

Advanced Heat Treatment

Enhances the strength and durability of tooling, ensuring it withstands extreme pressures and temperatures with ease.

Specialized PVD Coatings

Adds a protective layer that enhances surface hardness, minimizes friction, and resists wear, significantly extending the life of your tooling in the toughest environments.

With our meticulous approach, every tool is built to deliver peak performance and unmatched reliability.



Meeting The Demands of Aerospace Fasteners

Aerospace fasteners are critical components in the safety, performance, and longevity of aircraft. Major Industries Ltd. tooling supports manufacturers in:

Strengthening Fasteners

Our tooling enables the production of fasteners with superior tensile strength, exceptional fatigue resistance, and advanced corrosion resistance. This ensures that each fastener can withstand the extreme stresses and environmental conditions common in aerospace applications, maintaining safety and reliability.

Increasing Production Efficiency

Designed for optimal performance, our tooling minimizes cycle times and reduces the need for frequent maintenance. This enables manufacturers to meet high-volume production demands while maintaining consistent quality, reducing downtime, and ensuring that fasteners are delivered on time without sacrificing safety.

Meeting The Demands of Aerospace Fasteners

Enabling Innovation

Major Industries Ltd.'s custom tooling solutions empower manufacturers to explore new materials, coatings, and innovative fastener designs. By providing the flexibility to experiment, we help you stay at the forefront of aerospace technology while ensuring that new designs maintain the highest standards for performance, durability, and safety.

Boosting Production Efficiency

Speed and uptime are crucial in fastener manufacturing. Our tooling solutions are designed to optimize production efficiency, reducing cycle times and minimizing downtime for tool changes and maintenance. By streamlining your manufacturing process, we help you meet tight deadlines and maximize output, keeping your operations running smoothly and cost-effectively.



Expanding Product Range

The aerospace industry is constantly evolving, and the demand for innovative fasteners is growing. Our versatile tooling solutions give you the flexibility to create a wide range of fastener designs—whether you need custom sizes, unique shapes, or fasteners tailored to specialized applications. With Major Industries Ltd. tooling, you can stay ahead of market demands and offer a broader range of high-quality products to your customers.



Benefits Of Partnering With Us

At Major Industries Ltd., we understand the unique challenges faced by fastener manufacturers in the aerospace industry. Our tooling is designed to support your operations with:

Precision & Consistency

Aerospace fasteners require exacting tolerances for safety and performance. Our tooling ensures that each fastener is produced with the highest level of precision, consistently meeting regulatory and operational standards.

Cost Efficiency

Downtime and frequent tooling replacements can strain budgets and disrupt production schedules. Our tooling is built for durability, reducing wear and tear and extending service life. This means fewer replacements, minimized downtime, and lower overall production costs—allowing you to focus on meeting project deadlines and staying competitive.



Expert Support

We don't just supply tooling; we become your partner in production. Our expert team offers ongoing support to help you optimize performance, troubleshoot issues, and explore new opportunities for innovation. Whether you need technical advice or rapid adjustments, we're here to ensure your operations run smoothly.

Sustainability

In today's construction industry, sustainability is more than a trend—it's a necessity. Our durable tooling minimizes waste and supports eco-friendly manufacturing practices. By reducing material consumption and maximizing the efficiency of your operations, we help you align with green building initiatives and meet evolving environmental standards.



**To discover more about our
comprehensive range of tooling,
dimensional capabilities, advanced PVD
coatings, and expert machining solutions
- reach out to us today.**



SUPERIOR TOOLING - GREATER PERFORMANCE