

# APEX<sup>®</sup>

ASSEMBLY & FABRICATION TOOLS

## AEROSPACE FASTENER DRIVE TOOLS

TM

# PREMIUM FASTENER DRIVE TOOLS

The APEX line of precision machined, industrial-grade fastener drive tools has evolved into the brand of choice for all leading aerospace assembly and maintenance plants around the world.

For many decades, APEX has been delivering high quality, robust products for the Aerospace industry. We take pride in our ability to provide customers with tools that increase productivity, operating efficiency, and operator safety. We understand that durability and consistency are key and have designed our tools to perform better and last significantly longer than competitive tools.

To optimize fastening operations, Aerospace companies demand drive tools that are durable, reliable, and high precision. Whether it is an assembly operation or an MRO application, significant cost savings and productivity enhancements can be realized by using fastening tools that last longer, fit better, and offer a superior return on investment.



***SERVING AEROSPACE INDUSTRY SINCE 1933***



# KEY APPLICATIONS/PRODUCTS

## FINAL ASSEMBLY



Cockpit  
Wing Box  
Fuselage Join

Fuselage Interior  
Wing to Body Join  
Pylon / Engine Mount

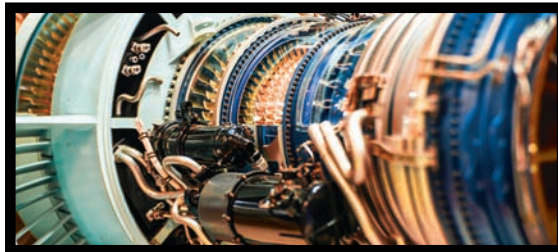
## AEROSTRUCTURES



Tail  
Wing  
Fuselage

Leading/Trailing Edge  
Stringer Nose  
Wing Box

## MAINTENANCE



Wing Repair  
Engine Repair

Interior Repair  
Fuselage Repair

## FLYAWAY HARDWARE



Cabins  
Landing Gear

Seat Assembly  
Wheel Assembly

## SCREWDRIVER BITS

-  **Phillips®**
-  **Torx®**
-  **Torx Plus®**
-  **Torq-Set®**
-  **Tri-Wing®**
-  **Hi-Torque**
-  **Slotted**
-  **Square Recess**
-  **Socket Head (Hex)**
-  **Mortorq / Mortorq Super®**
-  **Bit Holders**

## SOCKETS, WRENCHES & EXTENSIONS

-  **Impact Sockets**
-  **Universal Wrenches**
-  **Nutsetters**
-  **Extensions**
-  **Adapters**
-  **Covered Tools**

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TORX®, TORX PLUS®

The following are registered trademarks of Phillips Screw Company:  
MORTORQ®, PHILLIPS®, TORQ-SET®, TRI-WING®

# WHY CHOOSE APEX?

APEX quality begins with our **superior raw materials**. Only carefully chosen, mostly proprietary, industrial grade tool steel is used.

Each tool is **engineered to the highest specification** in the industry. APEX bits are specified to meet the most stringent government and military specifications where applicable. Our sockets, nutsetters, and universal wrenches have hex tolerances that are on average 45% tighter than ASME (B107.17) and 42% tighter than DIN 475 standards.

Almost all APEX tools are **manufactured in our state-of-the-art facility in Dayton, Ohio**. Our tools are machined, not forged, which produces consistent, precision fit tools that have the tightest tolerances for straightness and concentricity in the industry.

Precision fit exceeds industry standards for extended tool and fastener life

High grade alloy steel for improved tool life

Salt-bath Heat Treat process for improved consistency and strength

Precision machined tools run true

Advanced engineering specifications lead to tighter tolerances

***Tools that run true, perform better and last longer***

Each APEX tool is tempered with ***our proprietary salt-bath heat treat process***, the most advanced treatment available on the market. Salt bath process minimizes surface oxidation and carburization, and provides our tools with significantly improved consistency and strength. If needed, we have the capability to customize the heat treatment on a tool to meet the requirements of your particular application.

Our ***Quality Management System is certified to ISO 9001***. All tools must pass our strict quality control standards. This ensures that we only provide you with the high-quality tool that you have come to expect from APEX.



## APEX ADVANTAGE

- ▶ ***Globally recognized leader in industrial-grade fastener drive tools***
- ▶ ***Superior product durability and consistency because of proprietary materials and consistent manufacturing process***
- ▶ ***Greater torque transfer to the fastener due to precision fit design and tighter tolerances***
- ▶ ***Diverse offering – more than 10,000 parts available***
- ▶ ***Custom solutions capability with quick turnaround times***

***SIGNIFICANTLY REDUCED  
TOTAL COST OF OWNERSHIP***





# INNOVATIVE CUSTOM SOLUTIONS

- ▶ *The Go-To company for hard to make products*
- ▶ *Hundreds of custom tools developed for Aerospace applications*
- ▶ *Applications specialists to ensure quick turnaround times*
- ▶ *Expedited prototype delivery option available*

*Please email us at [specialquote@apex-tools.com](mailto:specialquote@apex-tools.com) to get in touch with one of our Application Specialists and obtain a quick quote.*



## APEX SOLUTIONS TAILORED TO YOUR NEEDS

As the world-renowned specialist in developing screwdriver bits, impact sockets, and universal wrenches, we create innovative designs for industrial assembly plants around the world. When you have a unique situation that cannot be solved by standard drive tools, APEX can develop a solution that will fit your specific requirement.

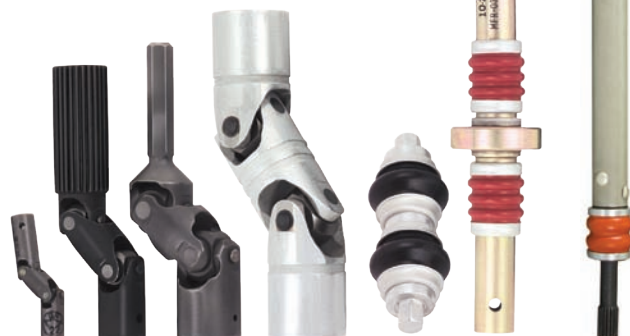
Backed by our state-of-the-art manufacturing plant located in the U.S., the APEX Custom Solutions group will partner with you to develop a custom fastener drive tool designed to optimize your operations and ensure that your application runs smoothly.





## APEX UNIVERSAL JOINTS

For 85 years, APEX has been supplying Universal Joints for military and commercial applications. Today APEX is recognized as the “Less Downtime, more Lifetime” leader in pin & cube and needle bearing Universal Joint designs and applications. We provide engineered solutions for thousands of demanding operations worldwide.



## APEX u-GUARD

APEX u-GUARD™ provides a protective barrier between genuine APEX fastener tools and your finely finished workpiece. Throughout our product line we insist on delivering the proven APEX performance while providing the best protection available against in-system damage.

The free-spinning covered drive tool design also works to increase operator safety by significantly reducing or eliminating pinch points when operators are wearing gloves. This unique design provides maximum protection for polished and highly sensitive surfaces.

- ▶ ***Aerospace/ High-lift Systems***
- ▶ ***Government/Military Applications***
- ▶ ***Off-highway / Construction Equipment***
- ▶ ***Performance Racing / Mil. Spec***
- ▶ ***Industrial Power Transmission***

*Please contact Tom Bills at  
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for all Universal Joint related inquiries.*





BECAUSE THERE'S A LOT ON THE LINE™

**APEX**®

ASSEMBLY & FABRICATION TOOLS

DAYTON, USA  SINCE 1933

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