

CLASS C COMPONENTS

6825 SUNWOOD DRIVE N.W. RAMSEY, MN 55303
PH 763-535-0400 FAX 763-535-1400



ISO 9001 Certified Company
www.classccomponents.com
Quality • Service • Versatility

APEX[®]

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



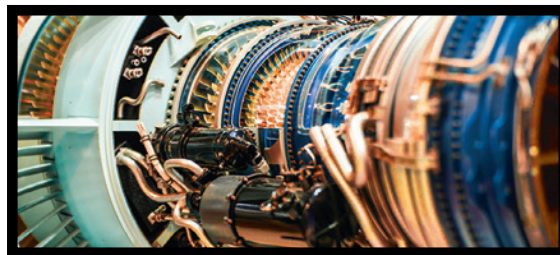
Cockpit
Wing Box
Fuselage Join
Fuselage Interior
Wing to Body Join
Pylon / Engine Mount

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**

The following are registered trademarks of Acument Intellectual Properties, LLC.:
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

Advanced engineering specifications lead to tighter tolerances

Precision machined tools run true



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**

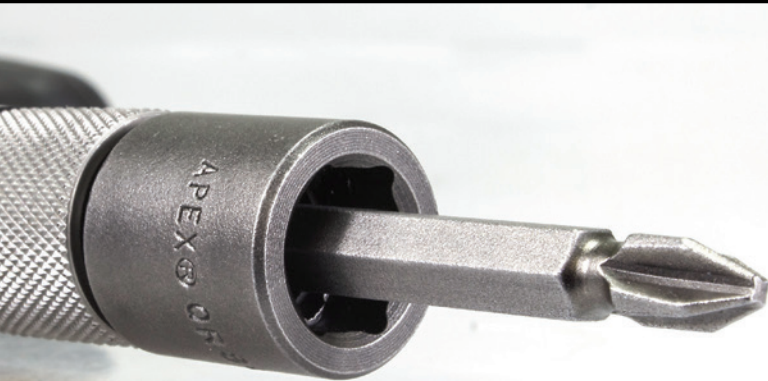
**SIGNIFICANTLY REDUCED
TOTAL COST OF OWNERSHIP**



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 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.

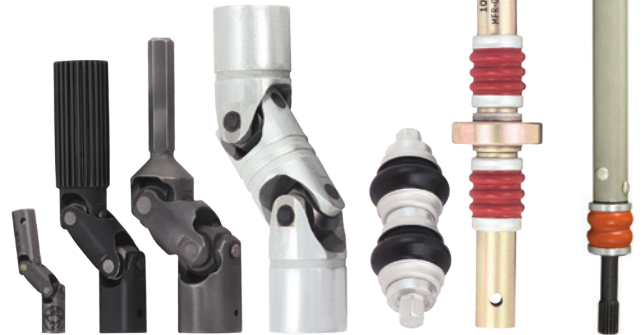
Backed by our state-of-the-art manufacturing plant located in the U.S., the APEX Custom Solutions group will partner with you to develop a custom fastener drive tool designed to optimize your operations and ensure that your application runs smoothly.





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
+1 (513) 720 6760 or by email at
tom.bills@apex-tools.com
for all Universal Joint related inquiries.*





BECAUSE THERE'S A LOT ON THE LINE

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DAYTON, USA  SINCE 1933

APEX ASSEMBLY & FABRICATION TOOLS

762 W. STEWART ST DAYTON, OH 45417 | P/ 919-387-0099 | E/ APEX@APEX-TOOLS.COM | W/ APEX-TOOLS.COM

North America | South America

Apex Tool Group
670 Industrial Drive
Lexington, SC 29072
Phone: +1 (800) 845 5629
Phone: +1 (919) 387 0099
www.apex-tools.com
Apex@apex-tools.com

Apex Tool Group
Manufacturing México
S. de R.L. de C.V.
Vialidad El Pueblito #103
Parque Industrial Querétaro
Querétaro, QRO 76220
México
Tel: +52 (442) 211 3800
Fax: +52 (800) 685 5560

Apex Tool Group
Ind. Com. Ferram. Ltda.
Av. Liberdade, 4055
Zona Industrial Iporanga
Sorocaba, São Paulo
CEP# 18087-170
Brazil
Tel: +55 15 3238 3820
Fax: +55 15 3238 3938

Europe | Middle East | Africa

Apex Tool Group GmbH
Industriestraße 1
73463 Westhausen
Germany
Phone: +49 (0) 73 63 81 0
Fax: +49 (0) 73 63 81 222

Apex Tool Group S.A.S.
25 rue Maurice Chevallier
B.P. 28
77831 Ozoir-la-Ferrière
Cedex, France
Tel: +33 1 64 43 22 00
Fax: +33 1 64 43 17 17

Apex Tool Group
Hungária Kft.
Platánia u.2
9027 Győr
Hungary
Tel: +36 96 66 1383
Fax: +36 96 66 1135

Asia Pacific

Apex Power Tool Trading
(Shanghai) Co., Ltd.
2nd Floor, Area C
177 Bi Bo Road
Pu Dong, New Area,
Shanghai
China 201203, P.R.C.
Phone: +86 21 60880320
Fax: +86 21 60880298

Apex Power Tools India
Private Limited
Gala No. 1, Plot No. 5
S. No. 234, 235 & 245
Indialand Global Industrial Park
Taluka-Mulsi, Phase I
Hinjawadi, Pune 411057
Maharashtra, India
Phone: +91 020 66761111