

Though Omega Technologies distributes many brands of screwdriver tooling, APEX® bits remain the most popular due to their quality workmanship and reputation within the industry. Formed from the highest grade steel, each piece is tempered with a proprietary heat treating process to achieve optimum toughness for demanding aerospace applications.

APEX® bits are manufactured to exact tolerances that often exceed licensing agreement requirements, standing up to rigorous government/military specifications. These tolerances greatly increase the durability and life of the tool. An APEX® bit can last up to ten-times longer than competitive bits. Closer tolerances also mean a better fit and less “cam-out” or stripping, which in turn keeps work areas free of damage and reduces incidence of bit failure and costly re-work.

Our commitment to innovative solutions allows us to explore custom options for specific needs that may arise.



Screwdriver Bits and Holders

Phillips® Fastener Bits
Torq-Set® Fastener Bits and Hand Drivers
Tri-Wing® Fastener Bits
Hi-Torque® Fastener Bits
Torx® Fastener Bits
Bit Holders · Adapters · Extensions

Screwdriver Bits

Not all bits are created equal.

The manufacture of top-quality aerospace screwdriver tooling is an art developed over decades in response to the ever-changing demands of fastener applications. These demands vary by industry, but are particularly exacting in aviation.

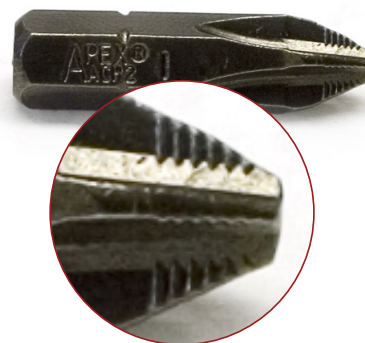
Special alloys have been developed that offer attributes suited to the specific demands of the aerospace industry. Typically, the industry uses the X hardness bits, yet hardness is only one attribute governing performance. Bits of equal hardness from different brands will yield different results. We understand that determining the material/brand of choice can be a confusing process. Omega's staff, with nearly 40 years of experience in aerospace fasteners and tooling, will be pleased to offer specific recommendations, and to clarify any confusion.

We welcome your feedback. If our customers are not getting the performance they expect, we want to hear about it. A bit is only as good as the job it does.








ACR

The most important feature of a bit is its ability to manipulate the screw. Painted, coated, corroded, or worn fasteners can inhibit a bit's ability to grip. The Apex[®] ACR[®] bits offer a ribbed tip that grips screw recesses to reduce stripping and the tendency to cam, which in turn reduces debris in the work area. Bits are available for driving, removal, or both. For availability, see the the ACR[®] column in the charts on the following pages.


















Types of Bits

Common Aerospace Recesses

-  Phillips[®]
-  Hi-Torque[®]
-  Torq-Set[®]
-  Tri-Wing[®]
-  Torx[®]

Other Styles Available

-  Slotted
-  Pozidriv[®]
-  Frearson
-  Socket (Hex)
-  Triple-Square
-  Quadrex[®]
-  Square Recess
-  Torx-Plus[®]
-  Sel-O-Fit[®]
-  B.N.A.E.
-  Clutch
-  MorTorq[®]
-  Spanner
-  Torx[®] Tamper Resistant
-  Torx[®] Plus Tamper Resistant



Phillips bits are by far the most widely used in the industry. Optimum performance depends on properly formed recesses and precision bit tip dimensions. With tough materials and scientific heat treatment, APEX® bits set the standard.

Insert Bits

| PART NUMBER | POINT SIZE | SHANK SIZE (Hex) | OVERALL LENGTH | ACR® FEATURE AVAILABLE |
|-------------|------------|------------------|----------------|------------------------|
| 440-3BN | 3 | 1/4 | 1 1/4 | - |
| 440-1 | 1 | 1/4 | 1 | ✓ |
| 440-2 | 2 | 1/4 | 1 | ✓ |
| 440-3 | 3 | 1/4 | 1 | ✓ |
| 440-4 | 4 | 1/4 | 1 | ✓ |
| 446-0 | 0 | 1/4 | 1 | - |
| 446-1 | 1 | 1/4 | 1 | - |
| 446-2 | 2 | 1/4 | 1 | ✓ |
| 480-1 | 1 | 5/16 | 1 1/4 | ✓ |
| 480-2 | 2 | 5/16 | 1 1/4 | ✓ |
| 480-3 | 3 | 5/16 | 1 1/4 | ✓ |
| 480-4 | 4 | 5/16 | 1 1/4 | ✓ |



446-2X



480-2ACR-R



440-3BN

Power Bits

| PART NUMBER | POINT SIZE | SHANK SIZE (Hex) | OVERALL LENGTH | ACR® FEATURE AVAILABLE |
|-------------|------------|------------------|----------------|------------------------|
| 4910 | 0 | 1/4 | 1 15/16 | - |
| 4910A | 0 | 1/4 | 2 3/4 | - |
| 491 | 1 | 1/4 | 1 15/16 | ✓ |
| 491A | 1 | 1/4 | 2 3/4 | - |
| 491B | 1 | 1/4 | 3 | - |
| 491C | 1 | 1/4 | 6 | - |
| 492 | 2 | 1/4 | 1 15/16 | ✓ |
| 492A | 2 | 1/4 | 2 3/4 | ✓ |
| 492B | 2 | 1/4 | 3 | ✓ |
| 492C | 2 | 1/4 | 6 | ✓ |
| 493 | 3 | 1/4 | 1 15/16 | ✓ |
| 4930 | 3 | 1/4 | 1 15/16 | - |
| 493A | 3 | 1/4 | 2 3/4 | ✓ |
| 493B | 3 | 1/4 | 3 | ✓ |
| 493C | 3 | 1/4 | 6 | ✓ |



492C-X



491-X



492-I

Square Shank

| PART NUMBER | POINT SIZE | SHANK SIZE (Hex) | OVERALL LENGTH | ACR® FEATURE AVAILABLE |
|-------------|------------|------------------|----------------|------------------------|
| 830-1 | 1 | 5/16 Square | 1 1/8 | - |
| 830-2 | 2 | 5/16 | 1 1/8 | ✓ |
| 830-3 | 3 | 5/16 | 1 1/8 | ✓ |
| 830-4 | 4 | 5/16 | 1 1/8 | - |



830-1

Torq-Set® Fastener Bits and Hand Drivers

Torq-Set® bits are popular throughout the aircraft/aerospace industry. Precision fit and unique geometry permit high installation loads and a greater surface for achieving high removal torque. "Offset" driving wings are also tamper resistant.



Additional lengths and shank sizes available.

212-10



212-1/4A



Hex Shank Insert Bits

| PART NUMBER | SHANK SIZE (Hex) | OVERALL LENGTH | ACR® FEATURE AVAILABLE |
|-------------|------------------|----------------|------------------------|
| 212-0 | 1/4 | 1 | - |
| 212-1 | 1/4 | 1 | - |
| 212-2 | 1/4 | 1 | - |
| 212-3 | 1/4 | 1 | - |
| 212-4 | 1/4 | 1 | - |
| 212-5 | 1/4 | 1 | - |
| 212-6 | 1/4 | 1 | ✓ |
| 212-8 | 1/4 | 1 | ✓ |
| 212-8A | 5/16 | 1 1/4 | - |
| 212-10 | 1/4 | 1 | ✓ |
| 212-10A | 5/16 | 1 1/4 | ✓ |
| 212-1/4 | 1/4 | 1 | ✓ |
| 212-1/4A | 5/16 | 1 1/4 | ✓ |
| 212-5/16A | 5/16 | 1 1/4 | ✓ |
| 212-3/8A | 5/16 | 1 1/4 | - |

170-1/4B



170-5/16B



170-10



Hex Shank Power Bits

| PART NUMBER | SHANK SIZE (Hex) | OVERALL LENGTH | ACR® FEATURE AVAILABLE |
|-------------|------------------|----------------|------------------------|
| 170-0 | 1/4 | 1 1/4 | - |
| 170-1 | 1/4 | 1 1/4 | - |
| 170-2 | 1/4 | 1 1/4 | - |
| 170-3 | 1/4 | 1 1/4 | - |
| 170-4 | 1/4 | 1 1/4 | - |
| 170-5 | 1/4 | 1 1/4 | - |
| 170-6 | 1/4 | 1 1/4 | ✓ |
| 170-8 | 1/4 | 1 1/4 | ✓ |
| 170-8A | 5/16 | 1 1/4 | - |
| 170-10 | 1/4 | 1 1/4 | ✓ |
| 170-10A | 5/16 | 1 1/4 | - |
| 170-1/4 | 7/16 | 1 1/4 | ✓ |
| 170-1/4A | 5/16 | 1 1/4 | ✓ |
| 170-1/4B | 1/4 | 1 1/4 | - |
| 170-5/16 | 7/16 | 1 1/4 | ✓ |
| 170-5/16A | 5/16 | 1 1/4 | - |
| 170-5/16B | 1/4 | 1 1/4 | - |
| 170-3/8A | 5/16 | 1 1/4 | - |
| 170-3/8B | 1/4 | 1 1/4 | - |

Also available as power bits (up to 6"), as hand drivers, and as M-Series (extended)

Torq-Set Drivers

| PART NUMBER | TIP SIZE | PART NUMBER | TIP SIZE |
|-------------|----------|-------------|----------|
| TSS-0 | 0 | TSS-6 | 6 |
| TSS-1 | 1 | TSS-8 | 8 |
| TSS-2 | 2 | TSS-10 | 10 |
| TSS-3 | 3 | TSS-1/4 | 1/4 |
| TSS-4 | 4 | TSS-5/16 | 5/16 |
| TSS-5 | 5 | TSS-3/8 | 3/8 |



TSS-10



Tri-Wing® bits offer a good fit to recesses, plenty of installation torque, and even higher removal torque (the removal face of the bit is larger than the installation face). The three-wing design is highly tamper resistant.

Additional lengths and shank sizes available.

Insert Bits

| PART NUMBER | RECESS NUMBER | SHANK SIZE (Hex) | OVERALL LENGTH | ACR® FEATURE AVAILABLE |
|-------------|---------------|------------------|----------------|------------------------|
| TWD-0 | 0 | 1/4 | 1 | - |
| TWD-1 | 1 | 1/4 | 1 | - |
| TWD-2 | 2 | 1/4 | 1 | - |
| TWD-3 | 3 | 1/4 | 1 | - |
| TWD-4 | 4 | 1/4 | 1 | ✓ |
| TWD-5 | 5 | 1/4 | 1 | ✓ |
| TWD-6 | 6 | 1/4 | 1 1/4 | - |
| TWD-7 | 7 | 1/4 | 1 1/4 | - |
| TWD-8 | 8 | 1/4 | 1 1/4 | - |
| TWE-4 | 4 | 5/16 | 1 1/4 | - |
| TWE-5 | 5 | 5/16 | 1 1/4 | - |
| TWE-6 | 6 | 5/16 | 1 1/4 | - |
| TWE-7 | 7 | 5/16 | 1 1/4 | - |
| TWE-8 | 8 | 5/16 | 1 1/4 | - |



TWD-4



TWD-6

Power Bits

| PART NUMBER | RECESS NUMBER | SHANK SIZE (Hex) | OVERALL LENGTH | ACR® FEATURE AVAILABLE |
|-------------|---------------|------------------|----------------|------------------------|
| TW-0 | 0 | 1/4 | 1 1/4 | - |
| TW-1 | 1 | 1/4 | 1 1/4 | - |
| TW-2 | 2 | 1/4 | 1 1/4 | - |
| TW-3 | 3 | 1/4 | 1 1/4 | - |
| TW-4 | 4 | 1/4 | 1 1/4 | ✓ |
| TW-5 | 5 | 1/4 | 1 1/4 | ✓ |
| TWB-6 | 6 | 1/4 | 1 1/4 | - |
| TWB-7 | 7 | 1/4 | 1 1/4 | - |
| TWB-8 | 8 | 1/4 | 1 1/4 | - |
| TWA-4 | 4 | 5/16 | 1 1/4 | - |
| TWA-5 | 5 | 5/16 | 1 1/4 | - |
| TWA-6 | 6 | 5/16 | 1 1/4 | - |
| TWA-7 | 7 | 5/16 | 1 1/4 | - |
| TWA-8 | 8 | 5/16 | 1 1/4 | - |
| TW-6 | 6 | 7/16 | 1 1/4 | - |
| TW-7 | 7 | 7/16 | 1 1/4 | - |
| TW-8 | 8 | 7/16 | 1 1/4 | - |
| TWC-9 | 9 | 7/16 | 1 1/4 | - |
| TW-9 | 9 | 5/8 | 1 1/4 | - |
| TW-10 | 10 | 5/8 | 1 1/4 | - |
| TW-11 | 11 | 5/8 | 1 1/4 | - |
| TW-12* | 12 | 5/8 | 1 1/4 | - |
| TW-13* | 13 | 5/8 | 1 1/4 | - |
| TW-14* | 14 | 3/4 | 3 | - |
| TW-15* | 15 | 3/4 | 3 | - |



TWA-8



TW-5



TW-7

*These sizes also available in male square (Service Drive)
Hand drivers also available

Hi-Torque® Fastener Bits

The Hi-Torque® recess was designed to provide very high installation and removal torques, with a very shallow recess for use on 120° and 130° flush fasteners in thin skins. It reduces the need for end-load of the driver by the operator while installing and removing screws.



1-Piece Drivers

| PART NUMBER | RECESS NUMBER | BOLT NOMINAL DIAMETER | DRIVE | BODY DIAMETER (B) | HEAD DIAMETER (D) | LENGTH (L) |
|-------------|---------------|-----------------------|-------------|-------------------|-------------------|------------|
| HTS0 | HT0 | #0 #1 #2 | 1/4 Fm. Sq. | 0.50 | 0.187 | 1.00 |
| HTS1 | HT1 | #3 #4 #5 #6 | 1/4 Fm. Sq. | 0.50 | 0.274 | 1.00 |
| HTS2 | HT2 | #8 | 1/4 Fm. Sq. | 0.50 | 0.295 | 1.00 |
| HTS3 | HT3 | #10 | 1/4 Fm. Sq. | 0.50 | 0.377 | 1.00 |
| HTS3A | HT3 | #10 | 3/8 Fm. Sq. | 0.50 | 0.377 | 1.00 |
| HTS4 | HT4 | 1/4 | 1/4 Fm. Sq. | 0.50 | 0.497 | 1.00 |
| HTS4A | HT4 | 1/4 | 3/8 Fm. Sq. | 0.75 | 0.497 | 1.25 |
| HTS5 | HT5 | 5/16 | 3/8 Fm. Sq. | 0.75 | 0.629 | 1.25 |
| HTS6 | HT6 | 3/8 | 3/8 Fm. Sq. | 0.75 | 0.747 | 1.25 |
| HTS7 | HT7 | 7/16 | 1/2 Fm. Sq. | 1.00 | 0.880 | 1.62 |
| HTS8 | HT8 | 1/2 | 1/2 Fm. Sq. | 1.00 | 0.997 | 1.62 |
| HTS9 | HT9 | 9/16 | 1/2 Fm. Sq. | 1.25 | 1.140 | 1.62 |
| HTS10 | HT10 | 5/8 | 1/2 Fm. Sq. | 1.25 | 1.500 | 1.82 |
| HTS12 | HT12 | 3/4 | 3/4 Fm. Sq. | 1.50 | 1.500 | 2.37 |
| HTS14 | HT14 | 7/8 | 3/4 Fm. Sq. | 1.62 | 1.620 | 2.50 |
| HTS16 | HT16 | 1 | 3/4 Fm. Sq. | 1.75 | 1.750 | 2.62 |
| HTN-B1 | HT1 | #3 #4 #5 #6 | 1/4 MI. Hex | 0.28 | 0.274 | 1.25 |
| HTN-B2 | HT2 | #8 | 1/4 MI. Hex | 0.31 | 0.295 | 1.25 |
| HTN-B3 | HT3 | #10 | 1/4 MI. Hex | 0.38 | 0.377 | 1.25 |
| HTN-B4 | HT4 | 1/4 | 1/4 MI. Hex | 0.50 | 0.502 | 1.25 |

2-Piece Drivers



HT3304M



HT4404M

Shown: "Pizza Cutter" style drivers with replaceable blades.

| PART NUMBER (ASSEMBLY) | PART NUMBER (BLADE ONLY) | RECESS NUMBER | BOLT NOMINAL DIAMETER | DRIVE | BODY DIAMETER (B) | HEAD DIAMETER (D) | LENGTH (L) |
|------------------------|--------------------------|---------------|-----------------------|-------------|-------------------|-------------------|------------|
| HTA2 | H2B2P | HT2 | #8 | 1/4 Fm. Sq. | 0.50 | 0.364 | 1.25 |
| HTA3 | HTB3P | HT3 | #10 | 1/4 Fm. Sq. | 0.50 | 0.552 | 1.30 |
| HTA4 | HTB4P | HT4 | 1/4 | 3/8 Fm. Sq. | 0.75 | 0.864 | 2.20 |
| HTA5 | HTB5P | HT5 | 5/16 | 3/8 Fm. Sq. | 0.75 | 0.990 | 2.25 |
| HTA6 | HTB6P | HT6 | 3/8 | 3/8 Fm. Sq. | 0.75 | 1.240 | 2.38 |
| HT3202M | HTB2M | HT2 | #8 | 1/4 Fm. Sq. | 0.50 | 0.500 | 1.25 |
| HT3203M | HTB3M | HT3 | #10 | 1/4 Fm. Sq. | 0.50 | 0.552 | 1.36 |
| HT3304M | HTB4M | HT4 | 1/4 | 3/8 Fm. Sq. | 0.75 | 0.864 | 2.67 |
| HT3305M | HTB5M | HT5 | 5/16 | 3/8 Fm. Sq. | 0.75 | 0.990 | 2.73 |
| HT3306M | HTB6M | HT6 | 3/8 | 3/8 Fm. Sq. | 0.75 | 1.240 | 2.73 |
| HT3406M | HTB6M | HT6 | 3/8 | 1/2 Fm. Sq. | 1.00 | 1.240 | 3.17 |
| HT3407M | HTB7M | HT7 | 7/16 | 1/2 Fm. Sq. | 1.00 | 1.375 | 3.23 |
| HT3408M | HTB8M | HT8 | 1/2 | 1/2 Fm. Sq. | 1.00 | 1.500 | 3.30 |
| HT3409M | HTB9M | HT9 | 9/16 | 1/2 Fm. Sq. | 1.00 | 1.750 | 3.42 |
| HT3410M | HTB10M | HT10 | 5/8 | 1/2 Fm. Sq. | 1.00 | 2.000 | 3.55 |
| HT4403M | HTB3M | HT3 | #10 | 1/4 MI. Hex | 0.50 | 0.552 | 3.50 |
| HT4404M | HTB4M | HT4 | 1/4 | 1/4 MI. Hex | 0.50 | 0.864 | 3.50 |



Torx®

The patented Torx® recess permits high torque loads with reasonably shallow recesses. Additional lengths and shank sizes available.

1/4" Hex Insert Bits

| PART NUMBER | RECESS NUMBER | SHANK SIZE (Hex) | OVERALL LENGTH | HEAD DIAMETER (D) |
|-------------|---------------|------------------|----------------|-------------------|
| 440-TX01 | T-1 | 1/4 | 1 | 0.033 |
| 440 TX02 | T-2 | 1/4 | 1 | 0.037 |
| 440 TX03 | T-3 | 1/4 | 1 | 0.044 |
| 440 TX04 | T-4 | 1/4 | 1 | 0.051 |
| 440 TX05 | T-5 | 1/4 | 1 | 0.055 |
| 440 TX06 | T-6 | 1/4 | 1 | 0.065 |
| 440 TX07 | T-7 | 1/4 | 1 | 0.077 |
| 440 TX08 | T-8 | 1/4 | 1 | 0.090 |
| 440 TX09 | T-9 | 1/4 | 1 | 0.097 |
| 440 TX10 | T-10 | 1/4 | 1 | 0.107 |
| 440 TX15 | T-15 | 1/4 | 1 | 0.128 |
| 440 TX20 | T-20 | 1/4 | 1 | 0.151 |
| 440 TX25 | T-25 | 1/4 | 1 | 0.173 |
| 440 TX27 | T-27 | 1/4 | 1 | 0.195 |
| 440 TX30 | T-30 | 1/4 | 1 | 0.216 |
| 440 TX40 | T-40 | 1/4 | 1 | 0.260 |



440-TX20



480-TX45

5/16" Hex Insert Bits

| PART NUMBER | RECESS NUMBER | SHANK SIZE (Hex) | OVERALL LENGTH | HEAD DIAMETER (D) |
|-------------|---------------|------------------|----------------|-------------------|
| 480-TX30 | T-301 | 5/16 | 1 1/4 | 0.216 |
| 480 TX40 | T-401 | 5/16 | 1 1/4 | 0.260 |
| 480 TX45 | T-451 | 5/16 | 1 1/4 | 0.306 |
| 480 TX50 | T-501 | 5/16 | 1 1/4 | 0.346 |
| 480 TX55 | T-551 | 5/16 | 1 1/4 | 0.440 |



440-TX

Also available as power shank, as Torx® key, and hand driver

Bit Holders and Extensions

Popular Bit Holders*

| PART NUMBER | DRIVE TYPE | FOR BIT SIZE | OVERALL LENGTH | MAGNETIC |
|-------------|-----------------------|----------------------|----------------|----------|
| 490 | 1/4" Hex Power Shank | 1/4" Hex Insert Bits | 2 1/8" | No |
| M490 | 1/4" Hex Power Shank | 1/4" Hex Insert Bits | 2 1/8" | Yes |
| 490-4 | 1/4" Hex Power Shank | 1/4" Hex Insert Bits | 4" | No |
| M490-4 | 1/4" Hex Power Shank | 1/4" Hex Insert Bits | 4" | Yes |
| 825 | 1/4" Fm. Square Drive | 1/4" Hex Insert Bits | 1" | Yes |
| 838 | 3/8" Fm. Square Drive | 1/4" Hex Insert Bits | 1/2" | No |

*See website for more configurations



838



825



490



M490

Popular Extensions*

| PART NUMBER | DRIVE END | OUTPUT END | OVERALL LENGTH | SOCKET RETAINER TYPE |
|-------------|---------------|------------------|----------------|----------------------|
| EX250 | 1/4" Male Hex | 1/4" Male Square | 1 3/8" | PIN |
| EX250-2 | 1/4" Male Hex | 1/4" Male Square | 2" | PIN |
| EX250B2 | 1/4" Male Hex | 1/4" Male Square | 2" | BALL |
| EX370 | 1/4" Male Hex | 3/8" Male Square | 1 5/8" | PIN |
| EX370-2 | 1/4" Male Hex | 3/8" Male Square | 2" | PIN |
| EX370B2 | 1/4" Male Hex | 3/8" Male Square | 2" | BALL |
| EX370-3 | 1/4" Male Hex | 3/8" Male Square | 3" | PIN |

*See website for more configurations



EX250-2



EX250B2



EX370



EX370B2

Screwdriver Bits and Holders



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Tooling excellence for tomorrow's technology

Founded in 1983, Omega Technologies, Inc. has become one of the world's leading sources of aircraft tools, continually working to increase the variety of tools available, while researching and developing ways to improve their strength, durability, and functionality. Omega manufactures its own proprietary line of tools, and also distributes for a host of other highly respected tool producers. Products include a complete line of fastener installation and removal tools, drills, countersinks, clamps, reamers, grinders, and more.

Quality at Omega shows in our knowledgeable staff, the conscientious and responsive job we do, and in the continually evolving line of products we offer. We thrive on innovation and welcome new solutions to problems. If you have an invention, please give us a call.



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Warranty: Omega Technologies Inc. products are warranted to be free of defects in material and workmanship. Products for which Return Goods Authorization (RGA) is requested should be returned, at buyer's cost, for evaluation to the address on the facing page. Please include the RGA# on the outside of the package.

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Customer Service: Our office is open to answer questions and take your order Monday through Friday, 7:30 am to 5:00 pm, Pacific Time (excluding holidays).