

APEX[®]

ASSEMBLY & FABRICATION TOOLS

2017-2018

TM

TABLE OF CONTENTS

THE APEX ADVANTAGE 4

SCREWDRIVER BITS

| | |
|---------------|----|
| PHILLIPS | 9 |
| MORTORQ® | 12 |
| SLOTTED | 14 |
| "TORX®" | 17 |
| TORX PLUS® | 20 |
| POZIDRIV® | 21 |
| SEL-O-FIT™ | 22 |
| QUADREX® | 22 |
| FREARSON | 23 |
| SOCKET HEAD | 25 |
| SQUARE RECESS | 28 |
| TRIPLE SQUARE | 29 |
| TORQ SET® | 30 |
| TRI WING® | 31 |
| HI TORQUE | 32 |
| B.N.A.E. | 32 |

BIT HOLDERS, NUTSETTERS, HAND DRIVERS, & HEX ADAPTERS

| | |
|--------------|----|
| BIT HOLDERS | 34 |
| NUTSETTERS | 36 |
| HAND DRIVERS | 39 |
| HEX ADAPTERS | 39 |

1/4" DRIVE SOCKETS, EXTENSIONS, ADAPTERS, & UNIVERSAL WRENCHES

| | |
|---------------------------------------|----|
| SAE SOCKETS AND UNIVERSAL WRENCHES | 44 |
| METRIC SOCKETS AND UNIVERSAL WRENCHES | 46 |
| SPLINE AND TORX SOCKETS | 58 |
| EXTENSIONS AND ADAPTERS | 50 |

3/8" DRIVE SOCKETS, EXTENSIONS, ADAPTERS, & UNIVERSAL WRENCHES

| | |
|---------------------------------------|----|
| SAE SOCKETS AND UNIVERSAL WRENCHES | 51 |
| METRIC SOCKETS AND UNIVERSAL WRENCHES | 56 |
| SPLINE AND TORX SOCKETS | 60 |
| EXTENSIONS AND ADAPTERS | 60 |

1/2" DRIVE SOCKETS, EXTENSIONS, ADAPTERS, & UNIVERSAL WRENCHES

| | |
|---------------------------------------|----|
| SAE SOCKETS AND UNIVERSAL WRENCHES | 63 |
| METRIC SOCKETS AND UNIVERSAL WRENCHES | 69 |
| SPLINE AND TORX SOCKETS | 75 |
| EXTENSIONS AND ADAPTERS | 76 |

5/8" DRIVE SOCKETS, EXTENSIONS, ADAPTERS, & UNIVERSAL WRENCHES

| | |
|---------------------------------------|----|
| SAE SOCKETS AND UNIVERSAL WRENCHES | 78 |
| METRIC SOCKETS AND UNIVERSAL WRENCHES | 79 |
| EXTENSIONS AND ADAPTERS | 79 |

3/4" DRIVE SOCKETS, EXTENSIONS, ADAPTERS, & UNIVERSAL WRENCHES

| | |
|---------------------------------------|----|
| SAE SOCKETS AND UNIVERSAL WRENCHES | 80 |
| METRIC SOCKETS AND UNIVERSAL WRENCHES | 81 |
| EXTENSIONS AND ADAPTERS | 82 |

1" DRIVE SOCKETS, EXTENSIONS, ADAPTERS, & UNIVERSAL WRENCHES

| | |
|---------------------------------------|----|
| SAE SOCKETS AND UNIVERSAL WRENCHES | 83 |
| METRIC SOCKETS AND UNIVERSAL WRENCHES | 84 |
| EXTENSIONS AND ADAPTERS | 85 |

1 1/2" DRIVE SOCKETS, SAE

| | |
|------------------------------------|----|
| SAE SOCKETS AND UNIVERSAL WRENCHES | 85 |
|------------------------------------|----|

u-GUARD & ANTI-MAR COVERED TOOLS

| | |
|-----------------|-----|
| UGS TOOL SERIES | 92 |
| UGH TOOL SERIES | 101 |


CUSTOM SOLUTIONS

| | |
|---------------------|-----|
| REVERSIBLE SOCKETS | 107 |
| TAP HOLDING SOCKETS | 107 |
| DRILL HOLDERS | 108 |
| #5 SPLINE DRIVE | 108 |
| BUDD WHEEL SOCKETS | 109 |
| SPARK PLUG SOCKETS | 109 |
| LUG NUT SOCKETS | 110 |
| DOUBLE ENDED BITS | 110 |
| MARKER SOCKETS | 110 |
| BALL END HEX BITS | 112 |
| BARBELL SOCKETS | 113 |
| COMBINATION SOCKETS | 113 |
| COUNTER-BORED TOOLS | 115 |

PART NUMBER INDEX 126

QUICK REFERENCE GUIDE

| | |
|---|------------|
| <u>THE APEX ADVANTAGE</u> | 4 |
| <u>SCREWDRIVER BITS</u> | 8 |
| <u>BIT HOLDERS, NUTSETTERS, HAND DRIVERS, AND HEX ADAPTERS</u> | 33 |
| <u>1/4" DRIVE SOCKETS, EXTENSIONS, ADAPTERS,& UNIVERSAL WRENCHES</u> | 43 |
| <u>3/8" DRIVE SOCKETS, EXTENSIONS, ADAPTERS,& UNIVERSAL WRENCHES</u> | 50 |
| <u>1/2" DRIVE SOCKETS, EXTENSIONS, ADAPTERS,& UNIVERSAL WRENCHES</u> | 62 |
| <u>5/8" DRIVE SOCKETS, EXTENSIONS, ADAPTERS,& UNIVERSAL WRENCHES</u> | 78 |
| <u>3/4" DRIVE SOCKETS, EXTENSIONS, ADAPTERS,& UNIVERSAL WRENCHES</u> | 80 |
| <u>1" DRIVE SOCKETS, EXTENSIONS, ADAPTERS,& UNIVERSAL WRENCHES</u> | 83 |
| <u>1 1/2" DRIVE SOCKETS, SAE</u> | 85 |
| <u>u-GUARD & ANTI-MAR COVERED TOOLS</u> | 86 |
| <u>CUSTOM SOLUTIONS</u> | 104 |
| <u>PART NUMBER INDEX</u> | 126 |



PREMIUM INDUSTRIAL-GRADE FASTENER DRIVE TOOLS

FROM MANUFACTURING TO CRITICAL REPAIR OPERATIONS,
COMPANIES DEMAND DRIVE TOOLS THAT ARE

HIGH PRECISION, RELIABLE, AND DURABLE.

SIGNIFICANT COST SAVINGS AND PRODUCTIVITY ENHANCEMENTS CAN
BE REALIZED BY USING SCREWDRIVER BITS, SOCKETS, AND UNIVERSAL
WRENCHES THAT LAST LONGER, FIT BETTER, AND OFFER A SUPERIOR
RETURN ON INVESTMENT.



APEX: GLOBAL LEADER IN FASTENER DRIVE TOOLS SINCE 1933

Since 1933, APEX has been delivering high quality, robust solutions for both assembly and MRO applications. We take pride in our capability to provide customers with innovative, robust tools that increase productivity, operating efficiencies, and operator safety. APEX understands that it is all about durability and consistency. Hence our tools are designed to fit and perform better, and significantly last longer than competitive tools.

**THE APEX LINE OF PRECISION
MACHINED, INDUSTRIAL-
GRADE FASTENER DRIVE TOOLS
HAS EVOLVED INTO THE BRAND
OF CHOICE FOR ALL LEADING
ASSEMBLY AND MRO PLANTS
AROUND THE WORLD.**

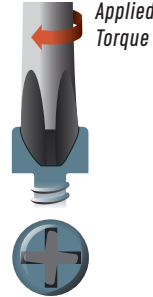
THE APEX ADVANTAGE

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 specifications** 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.

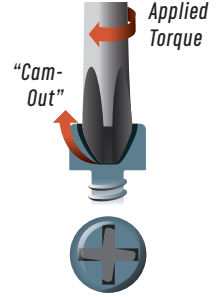
Almost all APEX tools are **manufactured in our state-of-the-art facility in Dayton, Ohio**. Our tools are machined, not forged, which produces consistent, precision fit tools that have the tightest tolerances for straightness and concentricity in the industry.

APEX



VS

BRAND X



Precision fit of APEX tools eliminates "camout" and premature bit failure.

High grade alloy steel for improved tool life

Precision fit exceeds industry standards for extended tool and fastener 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.

THE APEX ADVANTAGE

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 highquality 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 of more than 10,000 parts available
- Custom solutions capability with quick turnaround times

SIGNIFICANTLY REDUCED TOTAL COST OF OWNERSHIP



SELECTING THE PROPER HEAT TREAT FOR BITS

Choosing the proper heat treat is important in achieving long tool life. Different applications, different operators, and different power tools require different heat treats. APEX offers a choice of three heat treat hardness levels in many of our screwdriver bits to match the particular customer's application. These heat treats are specified by a letter suffix as follows:

- X - The hardest heat treat in the industry
- I - Intermediate hardness
- R - Lowest hardness

Selecting the heat treat best suited for a particular application may require some trial and error. The proper heat treat depends on the failure mode. If the bit breaks or shatters, select a bit with less hardness. If the failure mode is wear, select a harder bit. Many times both breakage and wear may occur within the same application. This can be due to a number of factors such as different operators, different torque values, and different power tool settings.

In general, high torque applications require "R" heat treats to withstand twisting and resist breakage. The "X" heat treat is most suitable for low torque applications, particularly if hardened screws are used.

If a failure occurs, a change in hardness may result in better service. The "X" heat treat is most common and should be selected unless the specifics of an application or an existing problem would suggest using "I" or "R" hardness. To specify a particular heat treat, add a letter suffix to the part number. For example, to specify "X" hardness in a #2 Phillips insert, the part number would be 440-2X. Not all APEX bits are available in all heat treats. Special heat treats can be supplied for a particular application. Contact your APEX representative for specific recommendations.

Since "X" hardness is the most popular with our customers, it is our default product where "X" designation may be omitted from the part number. For all other hardness designations, the product packaging will be marked with the appropriate hardness designation letter.

APEX



BRAND X



APEX bits and sockets last significantly longer than most of our competitors.

UNSURPASSED OFFERING

This catalog contains 5,000+ of the most frequently requested bits, sockets, universal wrenches, and fastening accessories. Our entire active offering approaches 10,000 sellable part numbers. If the tool you need does not appear in this catalog, please give us a call. The odds are, we may have what you need as a non-catalog item. If not, our experienced staff of tooling experts can design and manufacture custom solutions to meet the needs of your specific applications. You can even submit custom requests on-line at our website www.APEX-tools.com by completing a simple form. This flexibility has helped make APEX the only manufacturer which is a market and technology leader in all of the following industrial product categories: Bits & Bit Holders, Impact Sockets, Extensions and Universal Wrenches.

AVAILABILITY & SERVICE

APEX has approximately 2,000 authorized distributor locations globally to provide product off-the-shelf as well as knowledgeable service and support. APEX stocks over 1,000 part numbers and a multitude of blanks to manufacture several thousand more in order to support our strong global distribution network.





HIGH-PRECISION SCREWDRIVER BITS: INSERT AND POWER DRIVE



**// MANUFACTURED FROM
PROPRIETARY INDUSTRIAL GRADE
STEEL. CUTTING EDGE MACHINING
PROCESS AND ADVANCED HEAT
TREATMENT PROVIDES A BETTER,
CONSISTENT FIT TO THE FASTENER
AND YIELDS GREATER STRENGTH
AND LONGER BIT LIFE.**

INSERT AND POWER DRIVE BITS

AVAILABLE FASTENER DRIVE STYLES:

- ⊕ Phillips®
- ⊕ Torx Plus® Tamper Resistant
- ⊕ B.N.A.E
- ⊕ MorTorq® Super
- ⊖ Slotted
- ⊕ Pozidriv®
- Socket Head
- ⬆ Tri-Wing®
- ⊕ Torx®
- ⊕ Sel-o-fit™
- Square Recess
- ⊖ Hi-Torque®
- ⊕ Torx Plus®
- ⊕ Quadrex®
- ⊕ Torq-Set®
- Triple Square
- ⊕ Torx® Tamper Resistant
- ⊕ Frearson
- ⊕ MorTorq®

⊕ PHILLIPS BITS

1/4" HEX INSERT BITS



| Part Number | Point Size | Overall Length | | Bit Notes |
|-------------|------------|----------------|-----|----------------------------|
| | | IN. | MM. | |
| 440-1X | 1 | 1 | 25 | |
| 440-1I | 1 | 1 | 25 | |
| 440-115X | 1 | 1 1/2 | 38 | |
| 440-12X | 1 | 2 | 51 | |
| 440-125X | 1 | 2 1/2 | 64 | |
| 440-13X | 1 | 3 | 76 | |
| 440-2X | 2 | 1 | 25 | |
| 440-2I | 2 | 1 | 25 | |
| 440-2R | 2 | 1 | 25 | |
| 440-215X | 2 | 1 1/2 | 38 | |
| 440-22X | 2 | 2 | 51 | |
| 440-225X | 2 | 2 1/2 | 64 | |
| 440-23X | 2 | 3 | 76 | |
| 440-24X | 2 | 4 | 101 | |
| 440-255X | 2 | 5 1/2 | 140 | |
| 440-26X | 2 | 6 | 152 | |
| 440-27X | 2 | 1 | 25 | For Shallow Screw Recesses |
| 440-3X | 3 | 1 | 25 | |
| 440-3I | 3 | 1 | 25 | |
| 440-3BNX | 3 | 1 1/4 | 32 | Large Body |
| 440-3125X | 3 | 1 1/4 | 32 | |
| 440-32X | 3 | 2 | 51 | |
| 440-325X | 3 | 2 1/2 | 64 | |
| 440-33X | 3 | 3 | 76 | |
| 440-34X | 3 | 4 | 101 | |
| 440-4X | 4 | 1 5/16 | 33 | |

1/4" HEX INSERT BITS – ACR®

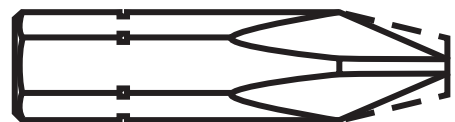


| Part Number | Point Size | Overall Length | | Bit Notes |
|----------------|------------|----------------|-----|-------------------|
| | | IN. | MM. | |
| 440-1-ACR1-RX | 1 | 1 | 25 | |
| 440-1-ACR1-DX | 1 | 1 | 25 | |
| 440-1-ACR1X | 1 | 1 | 25 | |
| 440-2-ACR2-RX | 2 | 1 | 25 | |
| 440-2-ACR2-RI | 2 | 1 | 25 | |
| 440-2-ACR2-DX | 2 | 1 | 25 | |
| 440-2-ACR2X | 2 | 1 | 25 | |
| 446-2-ACR2-DX | 2 | 1 | 25 | Limited Clearance |
| 446-2-ACR2X | 2 | 1 | 25 | Limited Clearance |
| 440-22-ACR2-RX | 2 | 2 | 51 | |
| 440-22-ACR2-DX | 2 | 2 | 51 | |
| 440-22-ACR2X | 2 | 2 | 51 | |
| 440-3-ACR3-DX | 3 | 1 | 25 | |
| 440-3-ACR3-RX | 3 | 1 | 25 | |
| 440-3-ACR3X | 3 | 1 | 25 | |

Part Number Suffix - R For removal

Part Number Suffix - D For driving

No Part Number Suffix For both removal and driving



ADVANTAGE OF 27 SERIES BITS:

27 Series bits are ideal for poorly recessed Phillips screws. A wider tip design fills out an inexact recess to make better contact.

1/4" HEX INSERT BITS LIMITED CLEARANCE



| Part Number | Point Size | Overall Length | | Turned Length (A) | | Turned OD (B) | |
|-------------|------------|----------------|-----|-------------------|-----|---------------|------|
| | | IN. | MM. | IN. | MM. | IN. | MM. |
| 446-0X | 0 | 1 | 25 | 7/16 | 11 | 0.17 | 4.06 |
| 446-1X | 1 | 1 | 25 | 7/16 | 11 | 0.17 | 4.06 |
| 446-12X | 1 | 2 | 51 | 7/16 | 11 | 0.17 | 4.06 |
| SD-1055-A | 1 | 2 | 51 | 1 3/8 | 35 | 0.17 | 4.06 |
| 446-2I | 2 | 1 | 25 | 7/16 | 11 | 0.17 | 4.06 |
| 446-2X | 2 | 1 | 25 | 7/16 | 11 | 0.17 | 4.06 |
| 446-27X* | 2 | 1 | 25 | 7/16 | 11 | 0.17 | 4.06 |
| 446-215T | 2 | 1 1/2 | 38 | 1 | 25 | 0.17 | 4.06 |
| 446-215X | 2 | 1 1/2 | 38 | 7/16 | 11 | 0.17 | 4.06 |
| 446-22TX | 2 | 2 | 51 | 1 1/2 | 38 | 0.17 | 4.06 |
| 446-22X | 2 | 2 | 51 | 7/16 | 11 | 0.17 | 4.06 |
| 446-225T | 2 | 2 1/2 | 64 | 1 3/4 | 44 | 0.17 | 4.06 |
| 446-23T | 2 | 3 | 76 | 2 1/4 | 57 | 0.17 | 4.06 |
| 446-3X | 3 | 1 | 25 | 7/16 | 11 | 0.24 | 6.1 |

* For shallow screw recess



ADVANTAGE OF REDUCED DIAMETER BITS:

Reduced diameter bits are ideal for driving screws below the surface of drywall.

5/16" HEX INSERT BITS – ACR®



| Part Number | Point Size | Overall Length | |
|---------------|------------|----------------|-----|
| | | IN. | MM. |
| 480-2-ACR2-RX | 2 | 1 1/4 | 32 |
| 480-2-ACR2X | 2 | 1 1/4 | 32 |
| 480-3-ACR3X | 3 | 1 1/4 | 32 |
| 480-4-ACR4X | 4 | 1 1/4 | 32 |

Part Number
Suffix - R
For removal



Part Number
Suffix - D
For driving



No Part
Number Suffix
For both removal and driving



5/16" HEX INSERT BITS

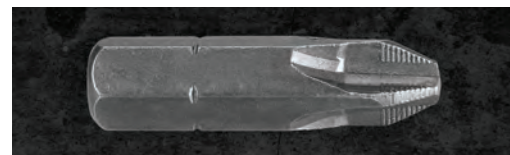


| Part Number | Point Size | Overall Length | | Bit Notes |
|-------------|------------|----------------|-----|------------|
| | | IN. | MM. | |
| 480-1X | 1 | 1 1/4 | 32 | |
| 480-2X | 2 | 1 1/4 | 32 | |
| 480-2I | 2 | 1 1/4 | 32 | |
| 480-22X | 2 | 2 | 51 | |
| 480-225X | 2 | 2 1/2 | 64 | |
| 480-24X | 2 | 4 | 101 | |
| 480-3X | 3 | 1 1/4 | 32 | |
| 480-3I | 3 | 1 1/4 | 32 | |
| 480-325X | 3 | 2 1/2 | 64 | |
| 480-34X | 3 | 4 | 101 | |
| 480-4X | 4 | 1 1/4 | 32 | |
| 480-4BNX | 4 | 1 1/2 | 38 | Large Body |
| 480-425X | 4 | 2 1/2 | 64 | |

5/16" SQUARE INSERT BITS



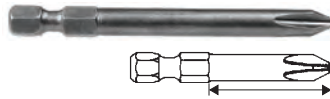
| Part Number | Point Size | Overall Length | |
|-------------|------------|----------------|-----|
| | | IN. | MM. |
| 830-1X | 1 | 1 1/8 | 29 |
| 830-2X | 2 | 1 1/8 | 29 |
| 830-2R | 2 | 1 1/8 | 29 |
| 830-3X | 3 | 1 1/8 | 29 |
| 830-4X | 4 | 1 1/8 | 29 |



ADVANTAGE OF APEX ACR® BITS:

Painted, coated or corroded fasteners can present special problems. APEX® ACR® insert bits' special wing-face ribs grip screw recesses to reduce stripping and cam-out which can result in damage to the surrounding workpiece. Choose from bits ribbed for screw removal, driving or both. They're also available in both insert bits and power drives.

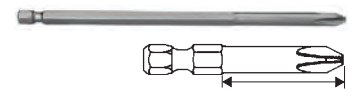
1/4" HEX POWER DRIVE



| Part Number | Point Size | Overall Length | | Body Dia. | | Turned Length | |
|-------------|------------|----------------|-----|-----------|-----|---------------|-----|
| | | IN. | MM. | IN. | MM. | IN. | MM. |
| 4910-BX | 0 | 3 1/2 | 89 | 1/8 | 3.2 | 2 3/4 | 70 |
| 4910-AX | 0 | 2 3/4 | 70 | 1/8 | 3.2 | 2 | 51 |
| 4910-CX | 0 | 6 | 152 | 1/8 | 3.2 | 2 | 51 |
| 4910X | 0 | 1 15/16 | 49 | 1/8 | 3.2 | 1 1/4 | 32 |
| 491-AX | 1 | 2 3/4 | 70 | 3/16 | 4.8 | 2 | 51 |
| 491-BX | 1 | 3 1/2 | 89 | 3/16 | 4.8 | 2 3/4 | 70 |
| 491-CCX | 1 | 6 | 152 | 3/16 | 4.8 | 5 1/4 | 133 |
| 491-CX | 1 | 6 | 152 | 3/16 | 4.8 | 2 | 51 |
| 491X | 1 | 1 15/16 | 49 | 3/16 | 4.8 | 2 | 32 |
| 492-200MM | 2 | 7 13/16 | 200 | 1/4 | 6.4 | 7 | 178 |
| 492-27X | 2 | 1 15/16 | 49 | 1/4 | 6.4 | 1 1/4 | 32 |
| 492-4X | 2 | 4 | 102 | 1/4 | 6.4 | 3 1/4 | 83 |
| 492-A-27X* | 2 | 2 3/4 | 70 | 1/4 | 6.4 | 2 | 51 |
| 492-AI | 2 | 2 3/4 | 70 | 1/4 | 6.4 | 2 | 51 |
| 492-AX | 2 | 2 3/4 | 70 | 1/4 | 6.4 | 2 | 51 |
| 492-B-27X* | 2 | 3 1/2 | 89 | 1/4 | 6.4 | 2 3/4 | 70 |
| 492-BI | 2 | 3 1/2 | 89 | 1/4 | 6.4 | 2 3/4 | 70 |
| 492-BX | 2 | 3 1/2 | 89 | 1/4 | 6.4 | 2 3/4 | 70 |
| 492-C-27X* | 2 | 6 | 152 | 1/4 | 6.4 | 2 | 51 |
| 492-CC-27X* | 2 | 6 | 152 | 1/4 | 6.4 | 5 1/4 | 133 |
| 492-CCX | 2 | 6 | 152 | 1/4 | 6.4 | 5 1/4 | 133 |
| 492-CI | 2 | 6 | 152 | 1/4 | 6.4 | 2 | 51 |
| 492-CX | 2 | 6 | 152 | 1/4 | 6.4 | 2 | 51 |
| 492I | 2 | 1 15/16 | 49 | 1/4 | 6.4 | 1 1/4 | 32 |
| 492X | 2 | 1 15/16 | 49 | 1/4 | 6.4 | 1 1/4 | 32 |
| SD-1474-D | 2 | 4 1/2 | 114 | 1/4 | 6.4 | 3 3/4 | 95 |
| SD-1975-B | 2 | 3 1/2 | 89 | .151 | 3.8 | 2 3/4 | 70 |
| SD-2052-10 | 2 | 10 | 254 | 9/32 | 7.1 | 9 | 229 |
| SD-2052-8 | 2 | 8 | 203 | 9/32 | 7.1 | 7 | 178 |
| SD-4429 | 2 | 1 15/16 | 49 | .170 | 4.3 | 7/16 | 11 |
| SD-4496-2 | 2 | 6 | 152 | .120 | 3.0 | 2 3/4 | 70 |
| SD-5206 | 2 | 6 | 152 | .170 | 4.3 | 5 1/4 | 133 |
| SD-5413 | 2 | 2 | 51 | .170 | 4.3 | 7/16 | 11 |
| 4930-AX | 3 | 2 3/4 | 70 | 1/4 | 6.4 | 2 | 51 |
| 4930-BX | 3 | 3 1/2 | 89 | 1/4 | 6.4 | 2 3/4 | 70 |
| 4930-CCX | 3 | 6 | 152 | 1/4 | 6.4 | 5 1/4 | 133 |
| 4930-CX | 3 | 6 | 152 | 1/4 | 6.4 | 2 | 51 |
| 4930X | 3 | 1 15/16 | 49 | 1/4 | 6.4 | 1 1/4 | 32 |
| 493-AI | 3 | 2 3/4 | 70 | 5/16 | 7.9 | 1 3/4 | 44 |
| 493-AR | 3 | 2 3/4 | 70 | 5/16 | 7.9 | 1 3/4 | 44 |
| 493-AX | 3 | 2 3/4 | 70 | 5/16 | 7.9 | 1 3/4 | 44 |
| 493-BX | 3 | 3 1/2 | 89 | 5/16 | 7.9 | 2 1/2 | 64 |
| 493-CX | 3 | 6 | 152 | 5/16 | 7.9 | 5 | 127 |
| 493X | 3 | 1 15/16 | 49 | 5/16 | 7.9 | 1 | 25 |
| 494X | 4 | 1 15/16 | 49 | 3/8 | 9.5 | 1 | 25 |

* For shallow screw recess

1/4" HEX POWER DRIVE – ACR®



| Part Number | Point Size | Overall Length | | Body Dia. | | Turned Length | |
|---------------|------------|----------------|-----|-----------|-----|---------------|-----|
| | | IN. | MM. | IN. | MM. | IN. | MM. |
| 491-ACR1-DX | 1 | 1 15/16 | 49 | 3/16 | 4.8 | 1 1/4 | 32 |
| 491-ACR1-RX | 1 | 1 15/16 | 49 | 3/16 | 4.8 | 1 1/4 | 32 |
| 491-ACR1X | 1 | 1 15/16 | 49 | 3/16 | 4.8 | 1 1/4 | 32 |
| 491-A-ACR1X | 1 | 2 3/4 | 70 | 3/16 | 4.8 | 2 | 51 |
| 492-ACR2-DX | 2 | 1 15/16 | 49 | 1/4 | 6.4 | 1 1/4 | 32 |
| 492-ACR2-RX | 2 | 1 15/16 | 49 | 1/4 | 6.4 | 1 1/4 | 32 |
| 492-ACR2X | 2 | 1 15/16 | 49 | 1/4 | 6.4 | 1 1/4 | 32 |
| 492-A-ACR2-DX | 2 | 2 3/4 | 70 | 1/4 | 6.4 | 2 | 51 |
| 492-A-ACR2X | 2 | 2 3/4 | 70 | 1/4 | 6.4 | 2 | 51 |
| 492-B-ACR2-DX | 2 | 3 1/2 | 89 | 1/4 | 6.4 | 2 3/4 | 70 |
| 492-B-ACR2X | 2 | 3 1/2 | 89 | 1/4 | 6.4 | 2 3/4 | 70 |
| 492-C-ACR2-DX | 2 | 6 | 152 | 1/4 | 6.4 | 2 | 51 |
| 493-ACR3X | 3 | 1 15/16 | 49 | 5/16 | 7.9 | 1 | 25 |

Part Number
Suffix - R
For removal



Part Number
Suffix - D
For driving



No Part
Number Suffix
For both removal and driving

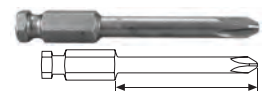


1/4" HEX POWER DRIVE WITH FINDER SLEEVE



| Part Number | Point Size | Overall Length | | Sleeve Dia. | |
|-------------|------------|----------------|-----|-------------|------|
| | | IN. | MM. | IN. | MM. |
| SD-556-A | 2 | 3 1/2 | 89 | 7/16 | 11.1 |
| SD-556 | 2 | 6 | 152 | 7/16 | 11.1 |

7/16" HEX POWER DRIVE



| Part Number | Point Size | Overall Length | | Body Dia. | | Turned Length | |
|-------------|------------|----------------|-----|-----------|-----|---------------|-----|
| | | IN. | MM. | IN. | MM. | IN. | MM. |
| 482X | 2 | 3 1/2 | 89 | 1/4 | 6.4 | 2 1/4 | 57 |
| 483X | 3 | 3 1/2 | 89 | 5/16 | 7.9 | 2 1/4 | 57 |
| 484X | 4 | 3 1/2 | 89 | 3/8 | 9.5 | 2 1/4 | 57 |



SELECTING A BIT:

Take the guesswork out of bit selection. APEX Phillips and Torx® ring gauges help you find the right bit for your fasteners. Order SD-3749 for Phillips and SD-4064-G for Torx®.

PHILLIPS BITS

9/32" NO. 130A YANKEE DRIVE



| Part Number | Point Size | Overall Length | | Body Dia. | |
|-------------|------------|----------------|-----|-----------|-----|
| | | IN. | MM. | IN. | MM. |
| 451X | 1 | 3 1/4 | 83 | 3/16 | 4.8 |
| 452X | 2 | 3 1/4 | 83 | 9/32 | 7.1 |
| 453X | 3 | 3 1/4 | 83 | 5/16 | 7.9 |

10-32 SCREW SHANK DRIVE



| Part Number | Point Size | Overall Length | | Body Dia. | |
|-------------|------------|----------------|-----|-----------|-----|
| | | IN. | MM. | IN. | MM. |
| 501X | 1 | 1 1/2 | 38 | 3/16 | 4.8 |
| 501-AX | 1 | 1 13/16 | 46 | 3/16 | 4.8 |
| SD-4739 | 2 | 1 1/2 | 38 | 3/16 | 4.3 |
| 502X | 2 | 1 1/2 | 38 | 1/4 | 6.4 |
| 502-ACR2X* | 2 | 1 1/2 | 38 | 1/4 | 6.4 |
| SD-1342-2 | 2 | 1 3/4 | 45 | 1/4 | 6.4 |
| 502-AX | 2 | 1 13/16 | 46 | 1/4 | 6.4 |
| 503X | 3 | 1 1/2 | 38 | 5/16 | 7.9 |

* Features ACR® Anti-camout ribs; see tool tip on page 10.

12-24 SCREW SHANK DRIVE



| Part Number | Point Size | Overall Length | | Body Dia. | |
|-------------|------------|----------------|-----|-----------|-----|
| | | IN. | MM. | IN. | MM. |
| 551X | 1 | 1 3/16 | 30 | .30 | 7.6 |
| 552X | 2 | 1 3/16 | 30 | .30 | 7.6 |
| 552I | 2 | 1 3/16 | 30 | .30 | 7.6 |
| 553X | 3 | 1 3/16 | 30 | .30 | 7.6 |

1/4"-24 SCREW SHANK DRIVE



| Part Number | Point Size | Overall Length | | Body Dia. | |
|-------------|------------|----------------|-----|-----------|-----|
| | | IN. | MM. | IN. | MM. |
| 401X | 1 | 1 1/2 | 38 | 3/16 | 4.8 |
| 402X | 2 | 1 1/2 | 38 | 1/4 | 6.4 |
| 403X | 3 | 1 1/2 | 38 | 5/16 | 7.9 |
| 403I | 3 | 1 1/2 | 38 | 5/16 | 7.9 |

8-32 SCREW SHANK DRIVE



| Part Number | Point Size | Overall Length | | Body Dia. | |
|-------------|------------|----------------|-----|-----------|-----|
| | | IN. | MM. | IN. | MM. |
| 591X | 1 | 1 3/16 | 30 | 7/32 | 5.6 |
| 592X | 2 | 1 3/16 | 30 | 7/32 | 5.6 |

FEMALE SQUARE SERVICE DRIVE



| Part Number | Point Size | Female Square Drive IN. | Overall Length | | Body Dia. | |
|-------------|------------|-------------------------|----------------|-----|-----------|-----|
| | | | IN. | MM. | IN. | MM. |
| 821 | 1 | 1/4 | 2 | 51 | 1/4 | 6.4 |
| 822 | 2 | 1/4 | 2 | 51 | 1/4 | 6.4 |
| 832 | 2 | 3/8 | 2 5/8 | 67 | 5/16 | 7.9 |
| 833 | 3 | 3/8 | 2 5/8 | 67 | 5/16 | 7.9 |
| 834 | 4 | 3/8 | 2 5/8 | 67 | 5/16 | 7.9 |
| 852 | 2 | 1/2 | 2 7/8 | 73 | 5/16 | 7.9 |
| 853 | 3 | 1/2 | 2 7/8 | 73 | 5/16 | 7.9 |
| 854 | 4 | 1/2 | 2 7/8 | 73 | 3/8 | 9.5 |

MORTORQ® BITS



| Part Number | Driver/Size Type IN. | MorTorq Size | Overall Length | |
|-------------|----------------------|--------------|----------------|-----|
| | | | IN. | MM. |
| 440-MT-00 | 1/4 Hex Insert | 00 | 1 | 25 |
| 440-MT-0 | 1/4 Hex Insert | 0 | 1 | 25 |
| 440-MT-1 | 1/4 Hex Insert | 1 | 1 | 25 |
| 440-MT-2 | 1/4 Hex Insert | 2 | 1 | 25 |
| 480-MT-3 | 5/16 Hex Insert | 3 | 1 1/4 | 32 |
| AM-MT-0 | 1/4 Hex Power | 0 | 1 15/16 | 49 |
| AM-MT-1 | 1/4 Hex Power | 1 | 1 15/16 | 49 |
| AM-MT-2 | 1/4 Hex Power | 2 | 1 15/16 | 49 |
| AN-MT-3 | 7/16 Hex Power | 3 | 1 1/4 | 32 |
| AN-MT-4 | 7/16 Hex Power | 4 | 1 1/4 | 32 |

MORTORQ® SUPER



5/16" HEX INSERT BITS

| Part Number | Mortorq Super Size | Overall Length | |
|-------------|--------------------|----------------|-----|
| | | IN. | MM. |
| 480-MTS-2 | 2 | 1 1/4 | 32 |











DIFFERENCE BETWEEN INSERT & POWER BIT:

Insert bits are commonly used with a bit holder in power tool applications. This combination is economical, provides flexibility and allows a fastener to be magnetically held by the bit. Power bits are placed directly into the power tool chuck. See pages 34-36 for a complete listing of APEX bit holders.

TYPES OF HEADS

Note: When ordering slotted bits, please remember that head sizes and slot widths of hardened, self tapping, and sheet metal screws do not conform to the same specifications as standard wood or machine screws described in the chart below. Also, because of variations in these dimensions among screws from different manufacturers, bits should be ordered to head and slot size rather than screw size.

SLOTTED SCREW SIZES

| Diameter of Head | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|----------|---------------|
| |  |  |  |  |  |  |  |  | | |
| Screw Sizes | Flat / Oval Head Wood Mach. | | Round Head Wood Mach. | | Truss Head | Binding Head | Fillister Cap Mach. | | Pan Head | Width of Slot |
| 1 | .146 | .146 | .138 | .138 | — | — | .118 | — | .026 | |
| | .130 | .130 | .122 | .122 | — | — | .104 | — | .019 | |
| 2 | .172 | .172 | .162 | .162 | .194 | .181 | .140 | .167 | .031 | |
| | .156 | .156 | .146 | .146 | .180 | .171 | .124 | .155 | .023 | |
| 3 | .199 | .199 | .187 | .187 | .226 | .208 | .161 | .193 | .035 | |
| | .181 | .181 | .169 | .169 | .211 | .197 | .145 | .180 | .027 | |
| 4 | .225 | .225 | .211 | .211 | .257 | .235 | .183 | .219 | .039 | |
| | .207 | .207 | .193 | .193 | .241 | .223 | .166 | .205 | .031 | |
| 5 | .252 | .252 | .236 | .236 | .289 | .263 | .205 | .245 | .043 | |
| | .232 | .232 | .217 | .217 | .272 | .249 | .187 | .231 | .035 | |
| 6 | .279 | .279 | .260 | .260 | .321 | .290 | .226 | .270 | .048 | |
| | .257 | .257 | .240 | .240 | .303 | .275 | .208 | .256 | .039 | |
| 7 | .305 | — | .285 | — | .352 | — | — | .296 | .048 | |
| | .283 | — | .264 | — | .333 | — | — | .281 | .039 | |
| 8 | .332 | .332 | .309 | .309 | .384 | .344 | .270 | .322 | .054 | |
| | .308 | .308 | .287 | .287 | .364 | .326 | .250 | .306 | .045 | |
| 9 | .358 | — | .334 | — | — | — | — | — | .054 | |
| | .334 | — | .311 | — | — | — | — | — | .045 | |
| 10 | .385 | .385 | .359 | .359 | .448 | .339 | .313 | .373 | .060 | |
| | — | .359 | .334 | .334 | .425 | .378 | .292 | .357 | .050 | |
| 12 | .438 | .438 | .408 | .408 | .511 | .454 | .357 | .425 | .067 | |
| | .410 | .410 | .382 | .382 | .487 | .430 | .334 | .407 | .056 | |
| 14 | .491 | — | .457 | — | — | — | — | — | .075 | |
| | .461 | — | .424 | — | — | — | — | — | .064 | |
| 1/4" | — | .507 | — | .472 | .573 | .513 | .375 .414 | .492 | .075 | |
| | — | .477 | — | .443 | .546 | .488 | .363 .389 | .473 | .064 | |
| 16 | .544 | — | .506 | — | — | — | — | — | .075 | |
| | .512 | — | .476 | — | — | — | — | — | .064 | |
| 18 | .597 | — | .555 | — | — | — | — | — | .084 | |
| | .563 | — | .523 | — | — | — | — | — | .072 | |
| 5/16" | — | .635 | — | .590 | .698 | .641 | .437 .518 | .615 | .084 | |
| | — | .600 | — | .557 | .666 | .609 | .424 .490 | .594 | .072 | |
| 20 | .650 | — | .604 | — | — | — | — | — | .084 | |
| | .614 | — | .570 | — | — | — | — | — | .072 | |
| 24 | .756 | — | .702 | — | — | — | — | — | .094 | |
| | .716 | — | .664 | — | — | — | — | — | .081 | |
| 3/8" | — | .762 | — | .708 | .823 | .769 | .562 .622 | .740 | .094 | |
| | — | .722 | — | .670 | .787 | .731 | .547 .590 | .716 | .081 | |

SLOTTED BITS

1/4" HEX INSERT BITS

LIMITED CLEARANCE



| Part Number | Screw Size | Overall Length | | Blade Thickness | | Blade Width | |
|-------------|------------|----------------|-----|-----------------|------|-------------|-----|
| | | IN. | MM. | IN. | MM. | IN. | MM. |
| 445-000X | 1F-2R | 1 | 25 | .021 | 0.53 | .125 | 3.2 |
| 445-00X | 2F-3R | 1 | 25 | .025 | 0.64 | .140 | 3.6 |
| 445-0X | 3F-4R | 1 | 25 | .030 | 0.76 | .154 | 3.9 |
| 445-10X | 4F-5R | 1 | 25 | .034 | 0.86 | .185 | 4.7 |
| 445-20X | 5F-6R | 1 | 25 | .036 | 0.91 | .216 | 5.5 |
| 445-30X | 6R-7R | 1 | 25 | .038 | 0.97 | .248 | 6.3 |
| 445-00-15X | 2F-3R | 11/2 | 38 | .028 | 0.71 | .138 | 3.5 |
| 445-0-15X | 3F-4R | 11/2 | 38 | .032 | 0.81 | .154 | 3.9 |
| 445-10-15X | 4F-5R | 11/2 | 38 | .034 | 0.86 | .185 | 4.7 |
| 445-20-15X | 5F-6R | 11/2 | 38 | .036 | 0.91 | .216 | 5.5 |
| 445-30-15X | 6R-7R | 11/2 | 38 | .038 | 0.97 | .248 | 6.3 |

1/4" HEX INSERT BITS



| Part Number | Screw Size | Overall Length | | Blade Thickness | | Blade Width | |
|-------------|------------|----------------|-----|-----------------|------|-------------|-----|
| | | IN. | MM. | IN. | MM. | IN. | MM. |
| 445-1X | 4F-5R | 1 | 25 | 0.034 | 0.86 | 3/16 | 4.8 |
| 445-2X | 6F-8R | 1 | 25 | .040 | 1.02 | 7/32 | 5.6 |
| 445-3X | 8F-10R | 1 | 25 | .042 | 1.07 | 1/4 | 6.4 |
| 445-4X | 10F-12R | 1 | 25 | .046 | 1.17 | 9/32 | 7.1 |
| 445-5X | 12R-14R | 11/2 | 38 | .050 | 1.27 | 5/16 | 7.9 |
| 445-6X | 14F-16R | 11/2 | 38 | .050 | 1.40 | 23/64 | 9.1 |
| 445-1-15X | 4F-5R | 11/2 | 38 | .034 | 0.86 | 3/16 | 4.8 |
| 445-2-15X | 6F-8R | 11/2 | 38 | .040 | 1.02 | 7/32 | 5.6 |
| 445-3-15X | 8F-10R | 11/2 | 38 | .042 | 1.07 | 1/4 | 6.4 |
| 445-4-15X | 10F-12R | 11/2 | 38 | .046 | 1.17 | 9/32 | 7.1 |

5/16" HEX INSERT BITS



| Part Number | Screw Size | Overall Length | | Blade Thickness | | Blade Width | |
|-------------|------------|----------------|-----|-----------------|------|-------------|------|
| | | IN. | MM. | IN. | MM. | IN. | MM. |
| 485-1X | 4F-5R | 11/2 | 38 | .034 | 0.86 | .188 | 4.8 |
| 485-2X | 6F-8R | 11/2 | 38 | .040 | 1.02 | .219 | 5.6 |
| 485-3X | 8F-10R | 11/2 | 38 | .042 | 1.07 | .25 | 6.4 |
| 485-4X | 10F-12R | 11/2 | 38 | .046 | 1.17 | .296 | 7.52 |
| 485-5X | 12F-14R | 11/2 | 38 | .050 | 1.27 | .328 | 8.33 |
| 485-6X | 14F-16R | 11/2 | 38 | .055 | 1.40 | .328 | 8.33 |
| 485-7X | 16F-18R | 13/4 | 45 | .060 | 1.52 | .50 | 12.7 |

5/16" HEX POWER DRIVE



| Part Number | Screw Size | Overall Length | | Blade Thickness | | Blade Width | |
|-------------|------------|----------------|-----|-----------------|------|-------------|-------|
| | | IN. | MM. | IN. | MM. | IN. | MM. |
| 635-6X | 10F-12R | 2 1/4 | 57 | 0.046 | 1.17 | 0.36 | 9.14 |
| 635-7X | 12F-14R | 2 1/4 | 57 | 0.050 | 1.27 | 0.395 | 10.03 |
| 635-8X | 14F-16R | 2 1/4 | 57 | 0.055 | 1.40 | 0.457 | 11.61 |
| 635-9X | 16F-20R | 2 1/4 | 57 | 0.060 | 1.52 | 0.503 | 12.78 |
| 635-10X | 20F-22R | 2 1/4 | 57 | 0.062 | 1.57 | 0.545 | 13.84 |

10-32 SCREW SHANK DRIVE



| Part Number | Screw Size | Overall Length | | Blade Thickness | | Blade Width | |
|-------------|------------|----------------|-----|-----------------|------|-------------|------|
| | | IN. | MM. | IN. | MM. | IN. | MM. |
| 103-00X | 2F-3R | 11/2 | 38 | 0.026 | 0.66 | 0.14 | 3.56 |
| 103-1X | 4F-5R | 11/2 | 38 | 0.034 | 0.86 | 0.187 | 4.75 |
| 103-2X | 5F-6R | 11/2 | 38 | 0.036 | 0.91 | 0.225 | 5.72 |
| 103-3X | 6F-7R | 11/2 | 38 | 0.038 | 0.97 | 0.25 | 6.35 |
| 103-4X | 7F-8R | 11/2 | 38 | 0.040 | 1.02 | 0.275 | 7.24 |
| 103-5X | 8F-10R | 11/2 | 38 | 0.042 | 1.07 | 0.296 | 7.52 |
| 103-6X | 10F-12R | 11/2 | 38 | 0.046 | 1.17 | 0.309 | 7.24 |

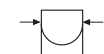
1/4"-24 SCREW SHANK DRIVE



| Part Number | Screw Size | Overall Length | | Blade Thickness | | Blade Width | |
|-------------|------------|----------------|-----|-----------------|------|-------------|------|
| | | IN. | MM. | IN. | MM. | IN. | MM. |
| 309-000X | 1F-2R | 11/2 | 38 | 0.022 | 0.56 | 0.125 | 3.18 |
| 309-00X | 2F-3R | 11/2 | 38 | 0.026 | 0.66 | 0.14 | 3.56 |
| 309-1X | 4F-5R | 11/2 | 38 | 0.034 | 0.86 | 0.187 | 4.75 |
| 309-2X | 5F-6R | 11/2 | 38 | 0.036 | 0.91 | 0.225 | 5.72 |
| 309-3X | 6F-7R | 11/2 | 38 | 0.038 | 0.97 | 0.25 | 6.35 |
| 309-4X | 7F-8R | 11/2 | 38 | 0.040 | 1.02 | 0.285 | 7.24 |
| 309-5X | 8F-10R | 11/2 | 38 | 0.042 | 1.07 | 0.296 | 7.52 |
| 309-6X | 10F-12R | 11/2 | 38 | 0.046 | 1.17 | 0.315 | 8 |
| 309-8X | 14F-16R | 11/2 | 38 | 0.055 | 1.40 | 0.361 | 9.17 |

SLOTTED BITS

1/4" HEX POWER DRIVE



| Part Number | Screw Size | Overall Length | | Blade Width | | Blade Thickness | |
|-------------|------------|----------------|-----|-------------|-----|-----------------|------|
| | | IN. | MM. | IN. | MM. | IN. | MM. |
| 320-000X | 1F-2R | 1 15/16 | 49 | .022 | .56 | .122 | 3.10 |
| 326-000X | 1F-2R | 2 3/4 | 70 | .022 | .56 | .122 | 3.10 |
| 323-000X | 1F-2R | 3 | 76 | .022 | .56 | .122 | 3.10 |
| 327-000X | 1F-2R | 3 1/2 | 89 | .022 | .56 | .122 | 3.10 |
| 324-000X | 1F-2R | 4 | 102 | .022 | .56 | .122 | 3.10 |
| 325-000X | 1F-2R | 5 | 127 | .022 | .56 | .122 | 3.10 |
| 328-000X | 1F-2R | 6 | 152 | .022 | .56 | .122 | 3.10 |
| 320-00X | 2F-3R | 1 15/16 | 49 | .026 | .66 | .134 | 3.40 |
| 326-00X | 2F-3R | 2 3/4 | 70 | .026 | .66 | .134 | 3.40 |
| 323-00X | 2F-3R | 3 | 76 | .026 | .66 | .134 | 3.40 |
| 327-00X | 2F-3R | 3 1/2 | 89 | .026 | .66 | .134 | 3.40 |
| 324-00X | 2F-3R | 4 | 102 | .026 | .66 | .134 | 3.40 |
| 325-00X | 2F-3R | 5 | 127 | .026 | .66 | .134 | 3.40 |
| 328-00X | 2F-3R | 6 | 152 | .026 | .66 | .134 | 3.40 |
| 320-0X | 3F-4R | 1 15/16 | 49 | .030 | .76 | .151 | 3.84 |
| 326-0X | 3F-4R | 2 3/4 | 70 | .030 | .76 | .151 | 3.84 |
| 323-0X | 3F-4R | 3 | 76 | .030 | .76 | .151 | 3.84 |
| 327-0X | 3F-4R | 3 1/2 | 89 | .030 | .76 | .151 | 3.84 |
| 324-0X | 3F-4R | 4 | 102 | .030 | .76 | .151 | 3.84 |
| 325-0X | 3F-4R | 5 | 127 | .030 | .76 | .151 | 3.84 |
| 328-0X | 3F-4R | 6 | 152 | .030 | .76 | .151 | 3.84 |
| 320-1X | 4F-5R | 1 15/16 | 49 | .034 | .86 | .187 | 4.75 |
| 326-1X | 4F-5R | 2 3/4 | 70 | .034 | .86 | .187 | 4.75 |
| 323-1X | 4F-5R | 3 | 76 | .034 | .86 | .187 | 4.75 |
| 327-1X | 4F-5R | 3 1/2 | 89 | .034 | .86 | .187 | 4.75 |
| 324-1X | 4F-5R | 4 | 102 | .034 | .86 | .187 | 4.75 |
| 325-1X | 4F-5R | 5 | 127 | .034 | .86 | .187 | 4.75 |
| 328-1X | 4F-5R | 6 | 152 | .034 | .86 | .187 | 4.75 |
| 320-20X | 5F-6R | 1 15/16 | 49 | .036 | .91 | .215 | 5.46 |
| 326-20X | 5F-6R | 2 3/4 | 70 | .036 | .91 | .215 | 5.46 |
| 323-20X | 5F-6R | 3 | 76 | .036 | .91 | .215 | 5.46 |
| 327-20X | 5F-6R | 3 1/2 | 89 | .036 | .91 | .215 | 5.46 |
| 324-20X | 5F-6R | 4 | 102 | .036 | .91 | .215 | 5.46 |
| 325-20X | 5F-6R | 5 | 127 | .036 | .91 | .215 | 5.46 |
| 328-20X | 5F-6R | 6 | 152 | .036 | .91 | .215 | 5.46 |
| 320-2X | 5F-6R | 1 15/16 | 49 | .036 | .91 | .250 | 6.35 |
| 326-2X | 5F-6R | 2 3/4 | 70 | .036 | .91 | .250 | 6.35 |
| 323-2X | 5F-6R | 3 | 76 | .036 | .91 | .250 | 6.35 |
| 327-2X | 5F-6R | 3 1/2 | 89 | .036 | .91 | .250 | 6.35 |
| 324-2X | 5F-6R | 4 | 102 | .036 | .91 | .250 | 6.35 |
| 328-2X | 5F-6R | 6 | 152 | .036 | .91 | .250 | 6.35 |
| 320-3X | 6F-8R | 1 15/16 | 49 | .038 | .97 | .250 | 6.35 |
| 326-3X | 6F-8R | 2 3/4 | 70 | .038 | .97 | .250 | 6.35 |
| 323-3X | 6F-8R | 3 | 76 | .038 | .97 | .250 | 6.35 |

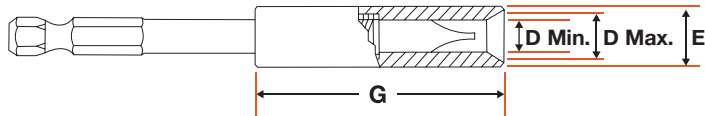
| Part Number | Screw Size | Overall Length | | Blade Width | | Blade Thickness | |
|-------------|------------|----------------|-----|-------------|------|-----------------|------|
| | | IN. | MM. | IN. | MM. | IN. | MM. |
| 327-3X | 6F-8R | 3 1/2 | 89 | .038 | .97 | .250 | 6.35 |
| 324-3X | 6F-8R | 4 | 102 | .038 | .97 | .250 | 6.35 |
| 325-3X | 6F-8R | 5 | 127 | .038 | .97 | .250 | 6.35 |
| 328-3X | 6F-8R | 6 | 152 | .038 | .97 | .250 | 6.35 |
| 320-4X | 8F-10R | 1 15/16 | 49 | .042 | 1.07 | .275 | 6.99 |
| 326-4X | 8F-10R | 2 3/4 | 70 | .042 | 1.07 | .275 | 6.99 |
| 323-4X | 8F-10R | 3 | 76 | .042 | 1.07 | .275 | 6.99 |
| 327-4X | 8F-10R | 3 1/2 | 89 | .042 | 1.07 | .275 | 6.99 |
| 324-4X | 8F-10R | 4 | 102 | .042 | 1.07 | .275 | 6.99 |
| 325-4X | 8F-10R | 5 | 127 | .042 | 1.07 | .275 | 6.99 |
| 328-4X | 8F-10R | 6 | 152 | .042 | 1.07 | .275 | 6.99 |
| 320-5X | 10F-12R | 1 15/16 | 49 | .046 | 1.17 | .312 | 7.92 |
| 326-5X | 10F-12R | 2 3/4 | 70 | .046 | 1.17 | .312 | 7.92 |
| 323-5X | 10F-12R | 3 | 76 | .046 | 1.17 | .312 | 7.92 |
| 327-5X | 10F-12R | 3 1/2 | 89 | .046 | 1.17 | .312 | 7.92 |
| 324-5X | 10F-12R | 4 | 102 | .046 | 1.17 | .312 | 7.92 |
| 325-5X | 10F-12R | 5 | 127 | .046 | 1.17 | .312 | 7.92 |
| 328-5X | 10F-12R | 6 | 152 | .046 | 1.17 | .312 | 7.92 |
| 320-6X | 12F-14R | 1 15/16 | 49 | .050 | 1.27 | .360 | 9.14 |
| 326-6X | 12F-14R | 2 3/4 | 70 | .050 | 1.27 | .360 | 9.14 |
| 323-6X | 12F-14R | 3 | 76 | .050 | 1.27 | .360 | 9.14 |
| 327-6X | 12F-14R | 3 1/2 | 89 | .050 | 1.27 | .360 | 9.14 |
| 324-6X | 12F-14R | 4 | 102 | .050 | 1.27 | .360 | 9.14 |
| 325-6X | 12F-14R | 5 | 127 | .050 | 1.27 | .360 | 9.14 |
| 328-6X | 12F-14R | 6 | 152 | .050 | 1.27 | .360 | 9.14 |

If the tool you need does not appear in this catalog, give us a call. The odds are, we may have what you need as a non-catalog item. If not, our experienced staff of tooling experts can design and manufacture "custom solutions" to meet the needs of your specific application.

Give us a call at: 1-800-845-5629
or visit our website www.APEX-tools.com

SLOTTED POWER BITS WITH FINDER SLEEVES

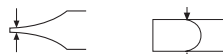
Each finder sleeve assembly part number begins with a letter prefix that denotes the particular sleeve used with that assembly. The chart below gives complete dimensional data for each finder sleeve.



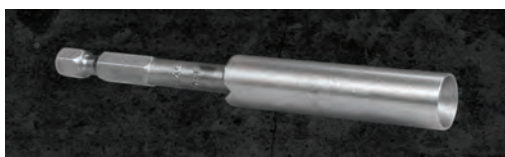
| Part Number | Screw Size | D Max IN. | D Max MM. | D Min IN. | D Min MM. | Sleeve Length G IN. | Sleeve Length G MM. | Sleeve Dia. E IN. | Sleeve Dia. E MM. |
|-------------|------------|-----------|-----------|-----------|-----------|---------------------|---------------------|-------------------|-------------------|
| L | 5F-6R | .260 | 6.60 | .233 | 5.92 | 17/8 | 47.6 | 3/8 | 9.5 |
| M | 6F-6R | .309 | 7.85 | .261 | 6.63 | 17/8 | 47.6 | 7/16 | 11.1 |
| P | 8F-6R | .368 | 9.35 | .310 | 7.87 | 17/8 | 47.6 | 1/2 | 12.7 |
| NP* | 8F-10R | .368 | 9.35 | .310 | 7.87 | 17/8 | 47.6 | 7/16 | 11.1 |
| R | 10F-12R | .415 | 10.54 | .369 | 9.37 | 2 | 50.8 | 9/16 | 14.3 |
| S | 12F-14R | .478 | 12.14 | .416 | 10.57 | 2 | 50.8 | 5/8 | 15.9 |
| T | 14F-16R | .522 | 13.26 | .479 | 12.17 | 2 1/8 | 54.0 | 1 1/16 | 17.5 |
| U | 16F-20R | .621 | 15.77 | .523 | 13.28 | 2 1/8 | 54.0 | 3/4 | 19.1 |
| W | 20F-22R | .665 | 16.89 | .622 | 15.80 | 2 1/16 | 52.4 | 13/16 | 20.3 |
| Y | 24F-24R | .715 | 18.16 | .666 | 16.92 | 2 1/32 | 51.6 | 15/16 | 23.8 |

* Sleeve NP is a cup type sleeve.

1/4" HEX POWER DRIVE



| Part No. Complete Assembly | Part No. Bit Only | Screw Size | Bit Length IN. | Bit Length MM. | Blade Thickness IN. | Blade Thickness MM. | Bit Body Dia. IN. | Bit Body Dia. MM. |
|----------------------------|-------------------|------------|----------------|----------------|---------------------|---------------------|-------------------|-------------------|
| NOL-320X | 320-LX | 5F-6R | 3 1/2 | 89 | .036 | .91 | 0.193 | 4.9 |
| L-320X | 320-LX | 5F-6R | 3 3/4 | 95 | .036 | .91 | 0.193 | 4.9 |
| M-320X | 320-MX | 6F-8R | 3 3/4 | 95 | .038 | .97 | 0.241 | 6.12 |
| NM-320X | 320-MX | 6F-8R | 3 1/2 | 89 | .038 | .97 | 0.241 | 6.12 |
| P-320X | 320-PX | 8F-10R | 3 3/4 | 95 | .042 | 1.07 | 0.290 | 7.37 |
| R-320X | 320-RX | 10F-12R | 3 3/4 | 95 | .046 | 1.17 | 0.350 | 8.89 |
| S-320X | 320-SX | 12F-14R | 3 7/8 | 98 | .050 | 1.27 | 0.395 | 10.03 |
| T-320X | 320-TX | 14F-16R | 4 1/8 | 105 | .055 | 1.40 | 0.457 | 11.61 |



ADVANTAGE OF USING FINDER SLEEVES

A finder sleeve makes it easy to engage slotted fasteners with the bit. It guides the bit so there is less "searching" for the proper alignment between blade and slot.

1/4" HEX POWER DRIVE – LONG SERIES



| Part No. Complete Assembly | Part No. Bit Only | Screw Size | Bit Length IN. | Bit Length MM. | Blade Thickness IN. | Blade Thickness MM. | Bit Body Dia. IN. | Bit Body Dia. MM. |
|----------------------------|-------------------|------------|----------------|----------------|---------------------|---------------------|-------------------|-------------------|
| L-328X | 328-LX | 5F-6R | 6 1/2 | 165 | 0.036 | 0.91 | 0.193 | 4.9 |
| M-328X | 328-MX | 6F-8R | 6 1/2 | 165 | 0.038 | 0.97 | 0.241 | 6.12 |
| P-328X | 328-PX | 8F-10R | 6 1/2 | 165 | 0.042 | 1.07 | 0.290 | 7.37 |
| R-328X | 328-RX | 10F-12R | 6 1/2 | 165 | 0.046 | 1.17 | 0.350 | 8.89 |
| S-328X | 328-SX | 12F-14R | 6 1/2 | 165 | 0.050 | 1.27 | 0.395 | 10.03 |

1/4" HEX POWER DRIVE – EXTRA SHORT SERIES



| Part No. Complete Assembly | Part No. Bit Only | Screw Size | Bit Length IN. | Bit Length MM. | Blade Thickness IN. | Blade Thickness MM. | Bit Body Dia. IN. | Bit Body Dia. MM. |
|----------------------------|-------------------|------------|----------------|----------------|---------------------|---------------------|-------------------|-------------------|
| 000L-322X | 322-000LX | 2F-3R | 2 3/32 | 53 | .026 | 0.66 | 0.138 | 3.50 |
| 00L-322X | 322-00LX | 3F-4R | 2 3/32 | 53 | .030 | 0.76 | 0.154 | 3.91 |
| 0L-322X | 322-0LX | 4F-5R | 2 3/32 | 53 | .034 | 0.86 | 0.185 | 4.70 |
| L-322X | 322-LX | 5F-6R | 2 3/32 | 53 | .036 | 0.91 | 0.185 | 4.70 |
| M-322X | 322-MX | 6F-8R | 2 3/32 | 53 | .040 | 1.02 | 0.248 | 6.30 |
| P-322X | 322-PX | 8F-10R | 2 3/32 | 53 | .042 | 1.07 | 0.283 | 7.19 |
| R-322X | 322-RX | 10F-12R | 2 3/32 | 53 | .046 | 1.17 | 0.283 | 7.19 |

7/16" HEX POWER DRIVE



| Part Number | Screw Size | Bit Length IN. | Bit Length MM. | Blade Thickness IN. | Blade Thickness MM. | Bit Body Dia. IN. | Bit Body Dia. MM. |
|-------------|------------|----------------|----------------|---------------------|---------------------|-------------------|-------------------|
| R-321X | 10F-12R | 3 7/8 | 98 | .046 | 1.17 | 0.350 | 8.89 |
| S-321X | 12F-14R | 3 7/8 | 98 | .050 | 1.27 | 0.395 | 10.03 |
| T-321X | 14F-16R | 4 1/8 | 105 | .055 | 1.40 | 0.457 | 11.61 |
| U-321X | 16F-20R | 4 1/8 | 105 | .060 | 1.52 | 0.503 | 12.78 |
| W-321X | 20F-22R | 4 1/8 | 105 | .062 | 1.57 | 0.545 | 13.84 |
| Y-321X | 24F-24R | 4 1/8 | 105 | .065 | 1.65 | 0.595 | 15.11 |

1/4" HEX INSERT BITS



| Part Number | Torxalign® Part Number | Driver Size | A | Overall Length IN. MM. | |
|---------------|------------------------|-------------|------|---------------------------|----|
| 440-TX-05X | - | T-5 | .055 | 1 | 25 |
| 440-TX-06X | - | T-6 | .065 | 1 | 25 |
| 440-TX-07X | - | T-7 | .077 | 1 | 25 |
| 440-TX-08X | - | T-8 | .090 | 1 | 25 |
| 440-TX-09X | - | T-9 | .097 | 1 | 25 |
| 440-TX-10X | 440-TX-10-W | T-10 | .107 | 1 | 25 |
| 440-TX-15X | 440-TX-15-W | T-15 | .128 | 1 | 25 |
| 440-TX-15-125 | - | T-15 | .128 | 1 1/4 | 32 |
| 440-TX-20X | 440-TX-20-W | T-20 | .151 | 1 | 25 |
| 440-TX-20-125 | - | T-20 | .151 | 1 1/4 | 32 |
| 440-TX-20-2 | - | T-20 | .151 | 2 | 51 |
| 440-TX-25X | 440-TX-25-W | T-25 | .173 | 1 | 25 |
| 440-TX-27X | 440-TX-27-W | T-27 | .195 | 1 | 25 |
| 440-TX-30X | 440-TX-30-W | T-30 | .216 | 1 | 25 |
| 440-TX-30I | 440-TX-30-W | T-30 | .216 | 1 | 25 |
| 440-TX-40X | 440-TX-40-W | T-40 | .260 | 1 | 25 |
| 440-TX-40I | 440-TX-40-W | T-40 | .260 | 1 | 25 |
| 440-TX-45X* | - | T-45 | .306 | 1 1/4 | 32 |
| 440-TX-50X* | - | T-50 | .346 | 1 1/4 | 32 |

* Hex will break before rated ultimate torque of the Torx® point is met.

5/16" HEX INSERT BITS



| Part Number | Driver Size | A | Overall Length IN. MM. | |
|--------------|-------------|------|---------------------------|-----|
| 480-TX-20X | T-20 | .151 | 1 1/4 | 32 |
| 480-TX-25X | T-25 | .173 | 1 1/4 | 32 |
| 480-TX-27X | T-27 | .195 | 1 1/4 | 32 |
| 480-TX-30X | T-30 | .216 | 1 1/4 | 32 |
| 480-TX-40X | T-40 | .260 | 1 1/4 | 32 |
| 480-TX-40I | T-40 | .260 | 1 1/4 | 32 |
| 480-TX-40-4X | T-40 | .260 | 4 | 102 |
| 480-TX-45X | T-45 | .306 | 1 1/4 | 32 |
| 480-TX-45-6 | T-45 | .306 | 6 | 152 |
| 480-TX-50X | T-50 | .346 | 1 1/4 | 32 |
| 480-TX-55X | T-55 | .440 | 1 1/4 | 32 |

5/16" HEX INSERT BITS TAMPER RESISTANT



| Part Number | Driver Size | A | Overall Length IN. MM. | |
|-------------|-------------|------|---------------------------|----|
| 480-TX-40-H | T-40-H | .260 | 1 1/4 | 32 |
| 480-TX-45-H | T-45-H | .306 | 1 1/4 | 32 |
| 480-TX-50-H | T-50-H | .346 | 1 1/4 | 32 |
| 480-TX-55-H | T-55-H | .440 | 1 1/4 | 32 |

5/8" HEX INSERT BITS



| Part Number | Hex Flat Type | Driver Size | A | Overall Length IN. MM. | |
|--------------|---------------|-------------|------|---------------------------|----|
| SZ-TX-55-A | DP | T-55 | .440 | 1 9/16 | 40 |
| SZ-TX-60-A | DP | T-60 | .520 | 1 9/16 | 40 |
| SZ-TX-70-A | DP | T-70 | .610 | 1 9/16 | 40 |
| SZ-TX-70-A-3 | TH | T-70 | .610 | 3 | 76 |
| SZ-TX-80-A* | TH | T-80 | .689 | 1 9/16 | 40 |

* DP-Drill Point; TH-Thru Hole. 5/8" insert bits are used with SC and RP adapters found in this section.

7/8" HEX INSERT BITS



| Part Number | Hex Flat Type | Driver Size | A | Overall Length IN. MM. | |
|-------------|---------------|-------------|------|---------------------------|----|
| SZ-TX-90-A* | TH | T-90 | .782 | 2 | 51 |
| SZ-TX-100-A | TH | T-100 | .870 | 2 | 51 |

* TH-Thru Hole. 7/8" insert bits are used with RP adapters found in this section.

1/4" HEX INSERT BITS TAMPER RESISTANT



| Part Number | Driver Size | A | Overall Length IN. MM. | |
|-------------|-------------|------|---------------------------|----|
| 440-TX-07-H | T-7-H | .077 | 1 | 25 |
| 440-TX-08-H | T-8-H | .090 | 1 | 25 |
| 440-TX-09-H | T-9-H | .097 | 1 | 25 |
| 440-TX-10-H | T-10-H | .107 | 1 | 25 |
| 440-TX-15-H | T-15-H | .128 | 1 | 25 |
| 440-TX-20-H | T-20-H | .151 | 1 | 25 |
| 440-TX-25-H | T-25-H | .173 | 1 | 25 |
| 440-TX-27-H | T-27-H | .195 | 1 | 25 |
| 440-TX-30-H | T-30-H | .216 | 1 | 25 |
| 440-TX-40-H | T-40-H | .260 | 1 | 25 |



TAMPER RESISTANT

Tamper resistant Torx® screws feature a post in the center of the recess – this post will only fit into a tamper resistant Torx® bit.

1/4" HEX POWER DRIVE



| Part Number | Driver Size | A | Body Dia. IN. MM. | Overall Length IN. MM. |
|-----------------|-------------|------|----------------------|---------------------------|
| 49-TX-05 | T-5 | .055 | .119 3 | 115/16 49 |
| 49-A-TX-05 | T-5 | .055 | .119 3 | 2 3/4 70 |
| 49-B-TX-05 | T-5 | .055 | .119 3 | 3 1/2 89 |
| 49-TX-06 | T-6 | .065 | .119 3 | 115/16 49 |
| 49-A-TX-06 | T-6 | .065 | .119 3 | 2 3/4 70 |
| 49-B-TX-06 | T-6 | .066 | .119 3 | 3 1/2 89 |
| 49-TX-07 | T-7 | .077 | .119 3 | 115/16 49 |
| 49-A-TX-07 | T-7 | .077 | .119 3 | 2 3/4 70 |
| 49-B-TX-07 | T-7 | .077 | .119 3 | 3 1/2 89 |
| 49-C-TX-07 | T-7 | .077 | .119 3 | 6 152 |
| 49-TX-08 | T-8 | .090 | .119 3 | 115/16 49 |
| 49-A-TX-08 | T-8 | .090 | .119 3 | 2 3/4 70 |
| 49-B-TX-08 | T-8 | .090 | .119 3 | 3 1/2 89 |
| 49-C-TX-08 | T-8 | .090 | .119 3 | 6 152 |
| 49-TX-09 | T-9 | .097 | .119 3 | 115/16 49 |
| 49-A-TX-09 | T-9 | .097 | .119 3 | 2 3/4 70 |
| 49-B-TX-09 | T-9 | .097 | .119 3 | 3 1/2 89 |
| 49-C-TX-09 | T-9 | .097 | .119 3 | 6 152 |
| 49-TX-10 | T-10 | .107 | .150 3.8 | 115/16 49 |
| 49-A-TX-10 | T-10 | .107 | .150 3.8 | 2 3/4 70 |
| 49-B-TX-10 | T-10 | .107 | .150 3.8 | 3 1/2 89 |
| 49-C-TX-10 | T-10 | .107 | .150 3.8 | 6 152 |
| 49-TX-15 | T-15 | .128 | .150 3.8 | 115/16 49 |
| 49-A-TX-15 | T-15 | .128 | .150 3.8 | 2 3/4 70 |
| 49-B-TX-15 | T-15 | .128 | .150 3.8 | 3 1/2 89 |
| 49-C-TX-15 | T-15 | .128 | .150 3.8 | 6 152 |
| 49-TX-15-8 | T-15 | .128 | .150 3.8 | 8 203 |
| 49-TX-20 | T-20 | .151 | .171 4.3 | 115/16 49 |
| 49-A-TX-20 | T-20 | .151 | .171 4.3 | 2 3/4 70 |
| 49-B-TX-20 | T-20 | .151 | .171 4.3 | 3 1/2 89 |
| 49-TX-20-5 | T-20 | .151 | .171 4.3 | 5 127 |
| 49-C-TX-20 | T-20 | .151 | .171 4.3 | 6 152 |
| 49-TX-25 | T-25 | .173 | .193 4.9 | 115/16 49 |
| 49-A-TX-25 | T-25 | .173 | .193 4.9 | 2 3/4 70 |
| 49-B-TX-25 | T-25 | .173 | .193 4.9 | 3 1/2 89 |
| 49-C-TX-25 | T-25 | .173 | .193 4.9 | 6 152 |
| 49-TX-27 | T-27 | .195 | .215 5.5 | 115/16 49 |
| 49-A-TX-27 | T-27 | .195 | .215 5.5 | 2 3/4 70 |
| 49-B-TX-27 | T-27 | .195 | .215 5.5 | 3 1/2 89 |
| 49-C-TX-27 | T-27 | .195 | .215 5.5 | 6 152 |
| 49-TX-30 | T-30 | .216 | .236 6 | 115/16 49 |
| 49-A-TX-30 | T-30 | .216 | .236 6 | 2 3/4 70 |
| 49-B-TX-30 | T-30 | .216 | .236 6 | 3 1/2 89 |
| 49-C-TX-30 | T-30 | .216 | .236 6 | 6 152 |
| 49-TX-40 | T-40 | .260 | .309 7.8 | 115/16 49 |
| 49-A-TX-40 | T-40 | .260 | .309 7.8 | 2 3/4 70 |
| 49-B-TX-40 | T-40 | .260 | .309 7.8 | 3 1/2 89 |
| 49-C-TX-40 | T-40 | .260 | .309 7.8 | 6 152 |
| 49-TX-45 | T-45 | .304 | .345 8.7 | 115/16 49 |
| 95-DG-TX40-75MM | T-40 | .260 | .25 6.4 | 2.952 75 |
| 95-TX-40 | T-40 | .260 | .25 6.4 | 115/16 49 |
| SD-4693 | T-10 | .107 | .150 3.8 | 3 75 |
| SD-5284 | T-27 | .195 | .393 10 | 10 1/2 267 |

1/4" HEX POWER DRIVE – TORXALIGN®



| Part Number | Driver Size | A | Body Dia. IN. MM. | Overall Length IN. MM. |
|--------------|-------------|------|----------------------|---------------------------|
| 49-TX-08-W | T-8 | .090 | .119 3.0 | 115/16 49 |
| 49-TX-10-W | T-10 | .107 | .150 3.8 | 115/16 49 |
| 49-TX-15-W | T-15 | .128 | .150 3.8 | 115/16 49 |
| 49-A-TX-15-W | T-15 | .128 | .150 3.8 | 2 3/4 70 |
| 49-B-TX-15-W | T-15 | .128 | .150 3.8 | 3 1/2 89 |
| 49-TX-20-W | T-20 | .151 | .171 4.3 | 115/16 49 |
| 49-B-TX-20-W | T-20 | .151 | .171 4.3 | 3 1/2 89 |
| 49-TX-25-W | T-25 | .173 | .193 4.9 | 115/16 49 |
| 49-TX-27-W | T-27 | .195 | .215 5.5 | 115/16 49 |
| 49-TX-30-W | T-30 | .216 | .236 6.0 | 115/16 49 |
| 49-B-TX-30-W | T-30 | .216 | .236 6.0 | 3 1/2 89 |

1/4" HEX POWER DRIVE

⚙️ TAMPER RESISTANT



| Part Number | Driver Size | A | Body Dia. IN. MM. | Overall Length IN. MM. |
|--------------|-------------|------|----------------------|---------------------------|
| 49-TX-10-H | T-10-H | .107 | .150 3.8 | 115/16 49 |
| 49-A-TX-10-H | T-10-H | .107 | .150 3.8 | 2 3/4 70 |
| 49-B-TX-10-H | T-10-H | .107 | .150 3.8 | 3 1/2 89 |
| 49-TX-15-H | T-15-H | .128 | .150 3.8 | 115/16 49 |
| 49-A-TX-15-H | T-15-H | .128 | .150 3.8 | 2 3/4 70 |
| 49-B-TX-15-H | T-15-H | .128 | .150 3.8 | 3 1/2 89 |
| 49-C-TX-15-H | T-15-H | .128 | .150 3.8 | 6 152 |
| 49-A-TX-20-H | T-20-H | .151 | .171 4.3 | 2 3/4 70 |
| 49-B-TX-20-H | T-20-H | .151 | .171 4.3 | 3 1/2 89 |
| 49-C-TX-20-H | T-20-H | .151 | .171 4.3 | 6 152 |

1/4" HEX POWER DRIVE WITH FINDER SLEEVES



| Part Number | Driver Size | Sleeve Number | A | Sleeve Dia. IN. MM. | Overall Length IN. MM. |
|-------------|-------------|---------------|------|------------------------|---------------------------|
| M-32-TX-15 | T-15 | M | .128 | 0.437 12.1 | 3 1/2 89 |
| M-32-TX-20 | T-20 | M | .151 | 0.437 12.1 | 3 1/2 89 |
| NP-32-TX-25 | T-25 | NP | .173 | 0.437 12.1 | 3 3/4 95 |
| R-32-TX-27 | T-27 | R | .195 | 0.563 14.3 | 3 5/8 92 |
| S-32-TX-30 | T-30 | S | .216 | 0.625 15.9 | 3 7/8 98 |




TORXALIGN® BITS:

Torxalign® Bits “wedge” into the Torx® recess to firmly hold the fastener to the bit.


7/16" HEX POWER DRIVE



| Part Number | Driver Size |  | Body Dia. IN. MM. | Overall Length IN. MM. |
|-------------|-------------|---|----------------------|---------------------------|
| SD-5560 | T-30 | .215 | .370 9.4 | 7 3/8 187 |
| 48-TX-40 | T-40 | .260 | .277 7 | 3 1/2 89 |
| 48-TX-45 | T-45 | .306 | .323 8.2 | 3 1/2 89 |
| 48-TX-50 | T-50 | .346 | .363 9.2 | 3 1/2 89 |
| 48-50IP | 50IP | .346 | .354 9.0 | 3 1/2 89 |
| 48-TX-55 | T-55 | .440 | .503 12.8 | 3 3/4 95 |
| 48-55IP | 55IP | .440 | .438 11 | 3 3/4 95 |


10-32 SCREW SHANK DRIVE



| Part Number | Driver Size |  | Body Dia. IN. MM. | Overall Length IN. MM. |
|-------------|-------------|---|----------------------|---------------------------|
| 50-TX-08 | T-8 | .090 | .125 3.2 | 1 1/2 38 |
| 50-TX-10 | T-10 | .107 | .150 3.8 | 1 1/2 38 |
| 50-TX-15 | T-15 | .128 | .150 3.8 | 1 1/2 38 |
| 50-TX-20 | T-20 | .151 | .171 4.3 | 1 1/2 38 |


1" SQUARE DRIVE ADAPTERS WITH TORX® INSERT BIT



| Part Number | Driver Size |  | Overall Length IN. MM. | Bit Length (B) IN. MM. |
|-------------|-------------|---|---------------------------|---------------------------|
| SZ-8L-TX-70 | T-70 | .610 | 3 19/32 91 | 0.90 23 |
| SZ-TX-100 | T-100 | .870 | 3 19/32 91 | 1.130 29 |


12-24 SCREW SHANK DRIVE



| Part Number | Driver Size |  | Body Dia. IN. MM. | Overall Length IN. MM. |
|-------------|-------------|---|----------------------|---------------------------|
| 55-TX-10 | T-10 | .107 | .150 3.8 | 1 3/16 30 |
| 55-TX-15 | T-15 | .128 | .150 3.8 | 1 3/16 30 |
| SD-4048 | T-15 | .128 | .309 7.8 | 1 3/16 30 |
| 55-TX-20 | T-20 | .151 | .171 4.3 | 1 3/16 30 |
| 55-TX-25 | T-25 | .173 | .193 4.9 | 1 3/16 30 |
| 55-TX-30 | T-30 | .216 | .309 7.8 | 1 3/16 30 |

FEMALE SQUARE SERVICE DRIVE



| Part Number | Driver Size |  | Square Drive | Body Dia. IN. MM. | Overall Length IN. MM. |
|----------------|-------------|---|--------------|----------------------|---------------------------|
| 834-TX-25 | T-25 | .173 | 3/8 | .240 6.1 | 2 13/16 71 |
| 834-TX30-1.62 | T-30 | .216 | 3/8 | .234 5.9 | 1 5/8 41 |
| 834-TX40-2.95 | T-40 | .260 | 3/8 | .277 7.0 | 2 61/64 75 |
| 834-TX-45-1.62 | T-45 | .306 | 3/8 | .323 8.2 | 1 5/8 41 |
| 834-TX-45-5 | T-45 | .306 | 3/8 | .323 8.2 | 5 125 |
| 834-TX-50 | T-50 | .346 | 3/8 | .363 9.2 | 2 5/8 66 |
| 834-TX50-1.62 | T-50 | .346 | 3/8 | .373 9.4 | 1 1/4 41 |
| 854-55IP | 55IP | .439 | 1/2 | .456 11.6 | 2 7/8 73 |
| 854-TX-50 | T-50 | .346 | 1/2 | .323 8.2 | 2 7/8 73 |
| 854-TX55-150M | T-55 | .346 | 1/2 | .363 9.2 | 5 7/8 150 |



DIFFERENCE BETWEEN TORX® & TORX PLUS® BITS:

Torx Plus® bits and fasteners feature a greater engagement area for higher torque transfer and reduced camout when driving Torx Plus® fasteners. They can provide up to 100% more drive cycles. Torx Plus® bits are not compatible with standard Torx® fasteners.

1/4" HEX INSERT BITS



| Part Number | Driver Size | A | Overall Length IN. MM. | |
|-------------|-------------|------|---------------------------|----|
| 440-9IPX | 9IP | .098 | 1 | 25 |
| 440-10IPX | 10IP | .107 | 1 | 25 |
| 440-15IPX | 15IP | .128 | 1 | 25 |
| 440-20IPX | 20IP | .151 | 1 | 25 |
| 440-25IPX | 25IPS | .173 | 1 | 25 |
| 440-25IPX | 25IP | .173 | 1 | 25 |
| 440-27IPX | 27IP | .195 | 1 | 25 |
| 440-30IPX | 30IP | .216 | 1 | 25 |
| 440-40IPX | 40IP | .260 | 1 | 25 |
| 440-45IPX | 45IP | .306 | 1 1/4 | 32 |

1/4" HEX INSERT BITS

⊕ TAMPER RESISTANT



| Part Number | Driver Size | A⊕ | Overall Length IN. MM. | |
|-------------|-------------|------|---------------------------|----|
| 440-10IPRX | 10IPR | .107 | 1 | 25 |
| 440-15IPRX | 15IPR | .128 | 1 | 25 |
| 440-20IPRX | 20IPR | .151 | 1 | 25 |
| 440-25IPRX | 25IPR | .173 | 1 | 25 |
| 440-27IPRX | 27IPR | .195 | 1 | 25 |
| 440-30IPRX | 30IPR | .216 | 1 | 25 |
| 440-40IPRX | 40IPR | .260 | 1 | 25 |

5/16" HEX INSERT BITS



| Part Number | Driver Size | A | Overall Length IN. MM. | |
|-------------|-------------|------|---------------------------|----|
| 480-30IPX | 30IP | .216 | 1 1/4 | 32 |
| 480-40IPX | 40IP | .260 | 1 1/4 | 32 |
| 480-40IP-CH | 40IP | .260 | 1 1/4 | 32 |
| 480-45IPX | 45IP | .306 | 1 1/4 | 32 |
| 480-50IPX | 50IP | .346 | 1 1/4 | 32 |
| 480-55IPX | 55IP | .440 | 1 1/4 | 32 |

5/8" HEX INSERT BITS



| Part Number | Hex Flat Type | Driver Size | A | Overall Length IN. MM. | |
|-------------|---------------|-------------|------|---------------------------|----|
| SZ-55IP-AX | DP | 55IP | .440 | 1 1/2 | 38 |

1/4" HEX POWER DRIVE



| Part Number | Driver Size | A | Overall Length IN. MM. | |
|-------------|-------------|------|---------------------------|-----|
| 49-B-5IPX | 5IP | .056 | 3 1/2 | 89 |
| 49-C-8IPX | 8IP | .090 | 6 | 152 |
| 49-10IPX | 10IP | .107 | 1 15/16 | 49 |
| 49-A-10IPX | 10IP | .107 | 2 3/4 | 70 |
| 49-B-10IPX | 10IP | .107 | 3 1/2 | 89 |
| 49-C-10IPX | 10IP | .107 | 6 | 152 |
| 49-15IPX | 15IP | .128 | 1 15/16 | 49 |
| 49-A-15IPX | 15IP | .128 | 2 3/4 | 70 |
| 49-B-15IPX | 15IP | .128 | 3 1/2 | 89 |
| 49-20IPX | 20IP | .151 | 1 15/16 | 49 |
| 49-A-20IPX | 20IP | .151 | 2 3/4 | 70 |
| 49-B-20IPX | 20IP | .151 | 3 1/2 | 89 |
| 49-C-20IPX | 20IP | .151 | 6 | 152 |
| 49-25IPX | 25IP | .173 | 1 15/16 | 49 |
| 49-A-25IPX | 25IP | .173 | 2 3/4 | 70 |
| 49-B-25IPX | 25IP | .173 | 3 1/2 | 89 |
| 49-27IPX | 27IP | .195 | 1 15/16 | 49 |
| 49-A-27IPX | 27IP | .195 | 2 3/4 | 70 |
| 49-B-27IPX | 27IP | .195 | 3 1/2 | 89 |
| 49-30IPX | 30IP | .216 | 1 15/16 | 49 |
| 49-A-30IPX | 30IP | .216 | 2 3/4 | 70 |
| 49-B-30IPX | 30IP | .216 | 3 1/2 | 89 |
| 49-40IPX | 40IP | .260 | 1 15/16 | 49 |
| 49-45IPX | 45IP | .306 | 1 15/16 | 49 |

1/4" HEX POWER DRIVE

⊕ TAMPER RESISTANT



| Part Number | Driver Size | A⊕ | Overall Length IN. MM. | |
|-------------|-------------|------|---------------------------|----|
| 49-10IPRX | 10IPR | .107 | 1 15/16 | 49 |
| 49-15IPRX | 15IPR | .128 | 1 15/16 | 49 |
| 49-20IPRX | 20IPR | .151 | 1 15/16 | 49 |
| 49-25IPRX | 25IPR | .173 | 1 15/16 | 49 |
| 49-27IPRX | 27IPR | .195 | 1 15/16 | 49 |
| 49-30IPRX | 30IPR | .216 | 1 15/16 | 49 |
| 49-40IPRX | 40IPR | .260 | 1 15/16 | 49 |

10-32 SCREW SHANK DRIVE



| Part Number | Driver Size | A | Overall Length IN. MM. | |
|--------------|-------------|------|---------------------------|----|
| SD-4984-10IP | 10IP | .107 | 1 1/2 | 38 |

1/4" HEX INSERT BITS



| Part Number | Point Size | Overall Length | |
|--------------|------------|----------------|-----|
| | | IN. | MM. |
| 440-1-PZDX | 1 | 1 | 25 |
| 440-2-PZDX | 2 | 1 | 25 |
| 440-215-PZDX | 2 | 1 1/2 | 38 |
| 440-22-PZDX | 2 | 2 | 51 |
| 440-3-PZDX | 3 | 1 | 25 |
| 440-4-PZDX | 4 | 1 1/4 | 32 |

1/4" HEX INSERT BITS

LIMITED CLEARANCE



| Part Number | Point Size | Overall Length | | Turned Length (A) | | Turned OD (B) | |
|-------------|------------|----------------|-----|-------------------|-----|---------------|-----|
| | | IN. | MM. | IN. | MM. | IN. | MM. |
| 446-1-PZDX | 1 | 1 | 25 | 7/16 | 11 | 0.18 | 4.6 |
| 446-2-PZDX | 2 | 1 | 25 | 7/16 | 11 | 0.18 | 4.6 |

5/16" HEX INSERT BITS



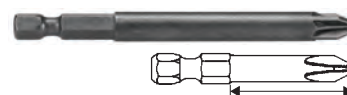
| Part Number | Point Size | Overall Length | |
|-------------|------------|----------------|-----|
| | | IN. | MM. |
| 480-1-PZDX | 1 | 1 1/4 | 32 |
| 480-2-PZDX | 2 | 1 1/4 | 32 |
| 480-3-PZDX | 3 | 1 1/4 | 32 |

10-32 SCREW SHANK DRIVE



| Part Number | Point Size | Overall Length | | Body Dia. | |
|----------------|------------|----------------|-----|-----------|-----|
| | | IN. | MM. | IN. | MM. |
| 502-PZDX | 2 | 1 1/2 | 38 | 1/4 | 6.4 |
| SD-1342-2-PZDX | 2 | 1 3/4 | 45 | 1/4 | 6.4 |

1/4" HEX POWER DRIVE



| Part Number | Point Size | Overall Length | | Body Dia. | | Turned Length | |
|-------------|------------|----------------|-----|-----------|-----|---------------|-----|
| | | IN. | MM. | IN. | MM. | IN. | MM. |
| 491-PZDX | 1 | 1 15/16 | 49 | 3/16 | 4.8 | 1 1/4 | 32 |
| 491-A-PZDX | 1 | 2 3/4 | 70 | 3/16 | 4.8 | 2 | 51 |
| 491-B-PZDX | 1 | 3 1/2 | 89 | 3/16 | 4.8 | 2 3/4 | 70 |
| 491-C-PZDX | 1 | 6 | 152 | 3/16 | 4.8 | 2 | 51 |
| 492-PZDX | 2 | 1 15/16 | 49 | 1/4 | 6.4 | 1 1/4 | 51 |
| 492-A-PZDX | 2 | 2 3/4 | 70 | 1/4 | 6.4 | 2 | 51 |
| 492-B-PZDX | 2 | 3 1/2 | 89 | 1/4 | 6.4 | 2 3/4 | 70 |
| 492-C-PZDX | 2 | 6 | 152 | 1/4 | 6.4 | 2 | 51 |
| 493-PZDX | 3 | 1 15/16 | 49 | 5/16 | 7.9 | 1 | 25 |
| 493-A-PZDX | 3 | 2 3/4 | 70 | 5/16 | 7.9 | 1 3/4 | 44 |
| 493-B-PZDX | 3 | 3 1/2 | 89 | 5/16 | 7.9 | 2 1/4 | 57 |
| 493-C-PZDX | 3 | 6 | 152 | 5/16 | 7.9 | 5 | 127 |

1/4"-24 SCREW SHANK DRIVE



| Part Number | Point Size | Overall Length | | Body Dia. | |
|-------------|------------|----------------|-----|-----------|-----|
| | | IN. | MM. | IN. | MM. |
| 401-PZDX | 1 | 1 1/2 | 38 | 3/16 | 4.8 |
| 402-PZDX | 2 | 1 1/2 | 38 | 1/4 | 6.4 |
| 403-PZDX | 3 | 1 1/2 | 38 | 5/16 | 7.9 |

8-32 SCREW SHANK DRIVE



| Part Number | Point Size | Overall Length | | Body Dia. | |
|-------------|------------|----------------|-----|-----------|-----|
| | | IN. | MM. | IN. | MM. |
| 591-PZDX | 1 | 1 13/16 | 30 | 7/32 | 5.6 |
| 592-PZDX | 2 | 1 13/16 | 30 | 7/32 | 5.6 |



DIFFERENCE BETWEEN A PHILLIPS AND A POZIDRIV®:

The shallow "cross" indentation in the screw head identifies a Pozidriv® fastener. The Pozidriv® bit and recess design provides more surface contact than a standard Phillips for more torque with less possibility of camout.

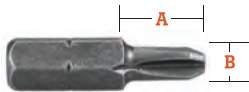
SEL-O-FIT BITS™

1/4" HEX INSERT BITS



| Part Number | Driver Size | Overall Length | |
|-------------|-------------|----------------|-----|
| | | IN. | MM. |
| 440-1-SFX | 1 | 1 | 25 |
| 440-2-SFX | 2 | 1 | 25 |
| 440-215-SFX | 2 | 1 1/2 | 38 |
| 440-22-SFX | 2 | 2 | 51 |
| 440-225-SFX | 2 | 2 1/2 | 64 |
| 440-3-SFX | 3 | 1 | 25 |

1/4" HEX INSERT BITS LIMITED CLEARANCE



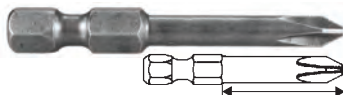
| Part Number | Point Size | Overall Length | | Turned Length (A) | | Turned OD (B) | |
|-------------|------------|----------------|-----|-------------------|-----|---------------|-----|
| | | IN. | MM. | IN. | MM. | IN. | MM. |
| 446-2-SFX | 2 | 1 | 25 | 7/16 | 11 | 0.18 | 4.6 |

5/16" HEX INSERT BITS



| Part Number | Point Size | Overall Length | |
|-------------|------------|----------------|-----|
| | | IN. | MM. |
| 480-2-SFX | 2 | 1 1/4 | 32 |

1/4" HEX POWER DRIVE



| Part Number | Point Size | Overall Length | | Body Dia. | | Turned OD (B) | |
|-------------|------------|----------------|-----|-----------|-----|---------------|-----|
| | | IN. | MM. | IN. | MM. | IN. | MM. |
| 491-SFX | 1 | 1 15/16 | 49 | 3/16 | 5 | 1 1/4 | 32 |
| 491-A-SFX | 1 | 2 3/4 | 70 | 3/16 | 5 | 2 | 51 |
| 491-B-SFX | 1 | 3 1/2 | 89 | 3/16 | 5 | 2 3/4 | 70 |
| 491-C-SFX | 1 | 6 | 152 | 3/16 | 5 | 2 | 51 |
| 492-SFX | 2 | 1 15/16 | 49 | 1/4 | 6 | 1 1/4 | 32 |
| 492-A-SFX | 2 | 2 3/4 | 70 | 1/4 | 6 | 2 | 51 |
| 492-B-SFX | 2 | 3 1/2 | 89 | 1/4 | 6 | 2 3/4 | 70 |
| 492-C-SFX | 2 | 6 | 152 | 1/4 | 6 | 2 | 51 |

QUADREX® BITS

1/4" HEX INSERT BITS



| Part Number | Point Size | Overall Length | |
|-------------|------------|----------------|-----|
| | | IN. | MM. |
| 950-QD-2 | 2 | 1 | 25 |

1/4" HEX POWER DRIVE



| Part Number | Point Size | Overall Length | | Body Dia. | |
|-------------|------------|----------------|-----|-----------|-----|
| | | IN. | MM. | IN. | MM. |
| 95-QD-2 | 2 | 1 15/16 | 49 | 1/4 | 6.4 |
| 95-A-QD-2 | 2 | 2 3/4 | 70 | 1/4 | 6.4 |
| 95-B-QD-2 | 2 | 3 1/2 | 89 | 1/4 | 6.4 |
| 95-QD-3 | 3 | 1 15/16 | 49 | 5/16 | 7.9 |



SEL-O-FIT™ BITS

Sel-O-Fit™ bits are designed to provide a more efficient means of driving Pozidriv® screws. The Sel-O-Fit™ bit places torque on the strongest and most mechanically advantageous portion of the driver tip. This allows more torque to be applied while minimizing the possibility of breakage and camout.

FREARSON BITS

1/4" HEX INSERT BITS



| Part Number | Point Size | Overall Length | |
|-------------|------------|----------------|-----|
| | | IN. | MM. |
| 440-FX | All | 1 | 25 |
| 446-FX | All | 1 | 25 |

5/16" HEX INSERT BIT



| Part Number | Point Size | Overall Length | |
|-------------|------------|----------------|-----|
| | | IN. | MM. |
| 480-FX | All | 1 3/8 | 35 |

1/4" HEX POWER DRIVE



| Part Number | Screw Size | Overall Length | | Body Dia. | Turned Length |
|-------------|------------|----------------|-----|-----------|---------------|
| | | IN. | MM. | IN. MM. | IN. MM. |
| 491-FX | All | 1 15/16 | 49 | 3/16 4.8 | 1 1/4 32 |
| 492-FX | All | 1 15/16 | 49 | 1/4 6 | 1 1/4 32 |
| 493-FX | All | 1 15/16 | 49 | 5/16 8 | 1 25 |
| 491-AFX | All | 2 3/4 | 70 | 3/16 4.8 | 2 51 |
| 492-AFX | All | 2 3/4 | 70 | 1/4 6 | 2 51 |
| 491-BFX | All | 3 1/2 | 89 | 3/16 4.8 | 2 3/4 70 |
| 492-BFX | All | 3 1/2 | 89 | 1/4 6 | 2 3/4 70 |
| 493-BFX | All | 3 1/2 | 89 | 5/16 8 | 2 1/2 64 |
| 491-CFX | All | 6 | 152 | 3/16 4.8 | 2 51 |
| 492-CFX | All | 6 | 152 | 1/4 6 | 2 51 |

12-24 SCREW SHANK DRIVE



| Part Number | Screw Size | Overall Length | | Body Dia. | |
|-------------|------------|----------------|-----|-----------|-----|
| | | IN. | MM. | IN. | MM. |
| 552-FX | All | 1 3/16 | 30 | .30 | 8 |

1/4" FEMALE SQUARE SERVICE DRIVE



| Part Number | Screw Size | Overall Length | | Body Dia. | |
|-------------|------------|----------------|-----|-----------|-----|
| | | IN. | MM. | IN. | MM. |
| 822-F | All | 2 | 51 | 1/4 | 6 |

3/8" FEMALE SQUARE SERVICE DRIVE












| Part Number | Screw Size | Overall Length | | Body Dia. | |
|-------------|------------|----------------|-----|-----------|-----|
| | | IN. | MM. | IN. | MM. |
| 832-F | All | 2 5/8 | 67 | 1/4 | 6 |
| 833-F | All | 2 5/8 | 67 | 5/16 | 8 |
| 834-F | All | 2 5/8 | 67 | 3/8 | 10 |










SOCKET HEAD SIZING CHART

SAE

| |  |  |  |  |  |  |  |  |  |
|----------------------|---|---|---|---|---|--|---|---|---|
| Normal Hex Size, IN. | Socket Head 1960 Series | Cap Screws 1936 Series | Flat Head Cap Screws | Button Head Cap Screws | Set Screws | Shoulder Screws | Pressure Plugs | Allenuts | Low Head Cap Screws |
| .050 | 0 | 0,1 | 1,2 | 3,4 | — | — | — | 4 | .050 |
| 1/16 | 1 | 2 | 3,4 | 3,4 | 5,6 | — | — | — | 5,6 |
| 5/64 | 2,3 | 3,4 | 5,6 | 5,6 | 8 | — | — | — | 8 |
| 3/32 | 4,5 | 5,6 | 8 | 8 | 10 | — | — | — | 10 |
| 7/64 | 6 | — | — | — | — | — | — | — | — |
| 1/8 | — | 8 | 10 | 10 | 1/4 | 1/4 | — | 4,5 | 1/4 |
| 9/64 | 8 | 10 | — | — | — | — | — | — | — |
| 5/32 | 10 | 1/4 | 1/4 | 1/4 | 5/16 | 5/16 | — | 6 | 5/16 |
| 3/16 | 1/4 | — | 5/16 | 5/16 | 3/8 | 3/8 | — | 8,10 | 3/8 |
| 7/32 | — | 5/16 | 3/8 | 3/8 | 7/16 | — | 1/16 | — | 7/16 |
| 1/4 | 5/16 | — | 7/16 | — | 1/2 | 1/2 | 1/8 | 1/4 | 1/2 |
| 5/16 | 3/8 | 3/8, 7/16 | 1/2 | — | 5/8 | 5/8 | — | 5/16 | 5/8 |
| 3/8 | 7/16, 1/2 | 1/2 | 5/8 | — | 3/4 | 3/4 | 1/4 | 3/8 | — |
| 7/16 | — | — | — | — | — | — | 3/8 | 7/16 | — |
| 1/2 | 5/8 | 5/8 | 3/4 | — | 7/8 | 1 | 1/2 | 1/2 | — |
| 9/16 | — | 3/4, 7/8 | 7/8 | — | 1, 11/8 | — | — | — | — |
| 5/8 | 3/4 | 1 | 1 | — | 1 1/4, 1 3/8 | 1 1/4 | — | 5/8 | — |
| 3/4 | 7/8, 1 | 1 1/8, 1 1/4, 1 3/8 | 1 1/8 | — | 1 1/2 | — | 3/4 | 3/4 | — |
| 7/8 | 1 1/8, 1 1/4 | — | 1 1/4, 1 3/8 | — | — | 1 1/2 | 1 | 7/8 | — |
| 1 | 1 3/8, 1 1/2 | 1 1/2 | 1 1/2 | — | 1 3/4, 2 | 1 3/4 | 1 1/4 | 1 | — |
| 1 1/4 | 1 3/4 | — | — | — | — | 2 | — | 1 1/4 | — |
| 1 1/2 | 2 | — | — | — | — | — | 1 1/2, 2 | 1 1/2 | — |
| 1 3/4 | 2 1/4, 2 1/2 | — | — | — | — | — | — | — | 1 3/4 |
| 2 | 2 3/4 | — | — | — | — | — | — | — | — |

METRIC

| |  |  |  |  |  |  |  |
|------------------------|---|---|---|---|---|---|---|
| Normal Hex Size, IN.es | Socket Head Cap Screws | Flat Head Cap Screws | Button Head Cap Screws | Set Screws | Shoulder Screws | Allenuts | Low Head Cap Screws |
| 1.5 | M1.6, M1.7, M2 | — | — | M3 | — | — | — |
| 2 | M2.3, M2.5, M2.6 | M3 | M3 | M4 | — | — | — |
| 2.5 | M3 | M4 | M4 | M5 | — | — | — |
| 3 | M4 | M5 | M5 | M6 | 6mm | M3 | M4 |
| 4 | M5 | M6 | M6 | M8 | 8mm | M4 | M5 |
| 5 | M6 | M8 | M8 | M10 | 10mm | M5 | M6 |
| 6 | M8 | M10 | M10 | M12, M14 | 12mm | M6 | M8 |
| 8 | M10 | M12 | M12 | M16 | 16mm | M8 | M10 |
| 10 | M12 | M14, M16 | — | M20 | 20mm | M10 | M12 |
| 12 | M14 | M20 | — | M24 | — | M12 | M14 |
| 14 | M16 | — | — | — | — | — | M16 |
| 17 | M20 | — | — | — | — | M16 | M20, M22 |
| 19 | M24 | — | — | — | — | — | M24 |

SOCKET HEAD BITS

1/4" HEX INSERT BITS



| Part Number | Hex Size IN. | Overall Length IN. MM. | |
|-------------|--------------|---------------------------|-----|
| 185-000X | 1/20 | 1 | 25 |
| 185-00X | 1/16 | 1 | 25 |
| 185-0X | 5/64 | 1 | 25 |
| 185-1X | 3/32 | 1 | 25 |
| 185-9X | 7/64 | 1 | 25 |
| 185-2X | 1/8 | 1 | 25 |
| 185-10X | 9/64 | 1 | 25 |
| 185-3X | 5/32 | 15/16 | 33 |
| 185-4X | 3/16 | 15/16 | 33 |
| 185-4-4X | 3/16 | 4 | 102 |
| 185-5X | 7/32 | 15/16 | 33 |
| 185-6X | 1/4 | 15/16 | 33 |
| 185-7X | 5/16 | 11/4 | 32 |
| 185-8X | 3/8 | 11/4 | 32 |

1/4" HEX INSERT BITS METRIC



| Part Number | Hex Size MM. | Overall Length IN. MM. | |
|-------------|--------------|---------------------------|----|
| 185-1.5MM | 1.5 | 1 | 25 |
| 185-2MM | 2 | 1 | 25 |
| 185-2.5MM | 2.5 | 1 | 25 |
| 185-3MM | 3 | 1 | 25 |
| 185-4MM | 4 | 15/16 | 33 |
| 185-5MM | 5 | 15/16 | 33 |
| 185-6MM | 6 | 15/16 | 33 |
| 185-7MM | 7 | 11/4 | 32 |
| 185-8MM | 8 | 11/4 | 32 |
| 185-9MM | 9 | 11/4 | 32 |
| 185-10MM | 10 | 11/4 | 32 |

5/16" HEX INSERT BITS



| Part Number | Hex Size IN. | Overall Length IN. MM. | |
|-------------|--------------|---------------------------|----|
| 315-3X | 5/32 | 15/16 | 33 |
| 315-4X | 3/16 | 15/16 | 33 |
| 315-5X | 7/32 | 15/16 | 33 |
| 315-6X | 1/4 | 15/16 | 33 |
| 315-7X | 5/16 | 15/16 | 33 |
| 315-8X | 3/8 | 15/16 | 33 |

5/16" HEX INSERT BITS – METRIC



| Part Number | Hex Size MM. | Overall Length IN. MM. | |
|-------------|--------------|---------------------------|----|
| 315-2.5MM | 2.5 | 1 | 25 |
| 315-4MM | 4 | 15/16 | 33 |
| 315-5MM | 5 | 15/16 | 33 |
| 315-6MM | 6 | 15/16 | 33 |
| 315-7MM | 7 | 15/16 | 33 |
| 315-8MM | 8 | 15/16 | 33 |
| 315-10MM | 10 | 13/8 | 35 |
| 315-12MM | 12 | 11/4 | 32 |
| 315-14MM | 14 | 11/4 | 32 |

1/4" HEX POWER DRIVE



| Part Number | Hex Size IN. | Overall Length IN. MM. | |
|-------------|--------------|---------------------------|-----|
| AM-01-A | 1/20 | 115/16 | 49 |
| AM-02 | 1/16 | 115/16 | 49 |
| AM-02-A | 5/64 | 115/16 | 49 |
| AM-03 | 3/32 | 115/16 | 49 |
| AM-03-3 | 3/32 | 3 | 76 |
| AM-03-6 | 3/32 | 6 | 152 |
| AM-03-A | 7/64 | 115/16 | 49 |
| AM-03-A-4 | 7/64 | 4 | 102 |
| AM-04 | 1/8 | 115/16 | 49 |
| AM-04-3 | 1/8 | 3 | 76 |
| AM-04-35 | 1/8 | 31/2 | 89 |
| AM-04-4 | 1/8 | 4 | 102 |
| AM-04-5 | 1/8 | 5 | 127 |
| AM-04-6 | 1/8 | 6 | 152 |
| AM-04-A | 9/64 | 115/16 | 49 |
| AM-04-A-4 | 9/64 | 4 | 102 |
| AM-05 | 5/32 | 115/16 | 49 |
| AM-05-3 | 5/32 | 3 | 76 |
| AM-05-35 | 5/32 | 31/2 | 89 |
| AM-05-4 | 5/32 | 4 | 102 |
| AM-05-45 | 5/32 | 41/2 | 114 |
| AM-05-5 | 5/32 | 3 | 127 |
| AM-05-6 | 5/32 | 6 | 152 |
| AM-05-8 | 5/32 | 8 | 203 |
| AM-06 | 3/16 | 115/16 | 49 |
| AM-06-3 | 3/16 | 3 | 76 |
| AM-06-35 | 3/16 | 31/2 | 89 |
| AM-06-4 | 3/16 | 4 | 102 |
| AM-06-6 | 3/16 | 6 | 152 |
| AM-07 | 7/32 | 115/16 | 49 |
| AM-08 | 1/4 | 115/16 | 49 |
| AM-10 | 5/16 | 115/16 | 49 |

SOCKET HEAD BITS

1/4" HEX POWER DRIVE – METRIC



| Part Number | Hex Size MM. | Overall Length IN. MM. | |
|-------------|--------------|---------------------------|-----|
| AM-1.5MM | 1.5 | 1 15/16 | 49 |
| AM-2MM | 2 | 1 15/16 | 49 |
| AM-2.5MM | 2.5 | 1 15/16 | 49 |
| AM-2.5MM-4 | 2.5 | 4 | 102 |
| AM-3MM | 3 | 1 15/16 | 49 |
| AM-3MM-3 | 3 | 3 | 76 |
| AM-3MM-4 | 3 | 4 | 102 |
| AM-3MM-6 | 3 | 6 | 152 |
| AM-4MM | 4 | 6 | 152 |
| AM-4MM-3 | 4 | 3 | 76 |
| AM-4MM-4 | 4 | 4 | 102 |
| AM-4MM-6 | 4 | 6 | 152 |
| AM-5MM | 5 | 1 15/16 | 49 |
| AM-5MM-3 | 5 | 3 | 76 |
| AM-5MM-4 | 5 | 4 | 102 |
| AM-5MM-6 | 5 | 6 | 152 |
| AM-6MM | 6 | 1 15/16 | 49 |
| AM-6MM-4 | 6 | 1 15/16 | 49 |
| AM-6MM-6 | 6 | 6 | 152 |
| AM-7MM | 7 | 1 15/16 | 49 |
| AM-8MM | 8 | 1 15/16 | 49 |
| AM-10MM | 10 | 1 15/16 | 49 |

5/16" HEX POWER DRIVE



| Part Number | Hex Size IN. | Overall Length IN. MM. | |
|-------------|--------------|---------------------------|----|
| AS-06 | 3/16 | 3 | 76 |
| AS-10 | 5/16 | 3 | 76 |
| AS-12 | 3/8 | 3 | 76 |

7/16" HEX POWER DRIVE



| Part Number | Hex Size IN. | Overall Length IN. MM. | |
|-------------|--------------|---------------------------|-----|
| AN-04 | 1/8 | 3 1/2 | 89 |
| AN-04-A | 9/64 | 3 1/2 | 89 |
| AN-05 | 5/32 | 3 1/2 | 89 |
| AN-05-6 | 5/32 | 6 | 152 |
| AN-06 | 3/16 | 3 1/2 | 89 |
| AN-06-6 | 3/16 | 6 | 152 |
| AN-07 | 7/32 | 3 1/2 | 89 |
| AN-07-8 | 7/32 | 8 | 203 |
| AN-08 | 1/4 | 3 1/2 | 89 |
| AN-08-8 | 1/4 | 8 | 203 |
| AN-09 | 9/32 | 3 1/2 | 89 |
| AN-10 | 5/16 | 3 1/2 | 89 |
| AN-10-6 | 5/16 | 6 | 152 |
| AN-12 | 3/8 | 3 1/2 | 89 |
| AN-12-6 | 3/8 | 6 | 152 |
| AN-16 | 1/2 | 3 1/2 | 89 |
| AN-16-6 | 1/2 | 6 | 152 |

7/16" HEX POWER DRIVE – METRIC



| Part Number | Hex Size MM. | Overall Length IN. MM. | |
|-------------|--------------|---------------------------|-----|
| AN-3MM | 3 | 3 1/2 | 89 |
| AN-4MM | 4 | 3 1/2 | 89 |
| AN-5MM | 5 | 3 1/2 | 89 |
| SD-5585 | 5 | 6 | 152 |
| AN-6MM | 6 | 3 1/2 | 89 |
| AN-8MM | 8 | 3 1/2 | 89 |
| AN-10MM | 10 | 3 1/2 | 89 |
| AN-12MM | 12 | 3 1/2 | 89 |
| AN-14MM | 14 | 3 1/2 | 89 |
| AN-14MM-6 | 14 | 6 | 152 |

5/8" HEX POWER DRIVE



| Part Number | Hex Size MM. | Overall Length IN. MM. | |
|-------------|--------------|---------------------------|-----|
| AP-08 | 1/4 | 4 | 102 |
| AP-10 | 5/16 | 4 | 102 |
| AP-12 | 3/8 | 4 | 102 |
| AP-16 | 1/2 | 4 | 102 |
| AP-18 | 9/16 | 4 | 102 |
| AP-20 | 5/8 | 4 | 102 |
| AP-24 | 3/4 | 4 | 102 |

SOCKET HEAD BITS WITH SQUARE DRIVE ADAPTERS, SAE

3/8" SQUARE DRIVE



| Number Complete | Part Number | | Hex Size IN. | Overall Length | | Insert Length | |
|-----------------|--------------|-------------|--------------|----------------|---------|---------------|----|
| | Adapter Only | Insert Only | | IN. MM. | IN. MM. | IN. MM. | |
| SZ-9 | SC-314 | SZ-9-A | 3/32 | 2 1/4 | 57 | 13/8 | 35 |
| SZ-7 | SC-314 | SZ-7-A | 7/64 | 2 1/4 | 57 | 13/8 | 35 |
| SZ-10 | SC-314 | SZ-10-A | 1/8 | 2 1/4 | 57 | 13/8 | 35 |
| SZ-11 | SC-314 | SZ-11-A | 5/32 | 2 1/4 | 57 | 13/8 | 35 |
| SZ-12 | SC-314 | SZ-12-A | 3/16 | 2 1/4 | 57 | 13/8 | 35 |
| SZ-13 | SC-314 | SZ-13-A | 7/32 | 2 1/4 | 57 | 13/8 | 35 |
| SZ-14 | SC-314 | SZ-14-A | 1/4 | 2 1/4 | 57 | 13/8 | 35 |
| SZ-15 | SC-314 | SZ-15-A | 5/16 | 2 1/4 | 57 | 13/8 | 35 |
| SZ-16 | SC-314 | SZ-16-A | 3/8 | 2 1/4 | 57 | 13/8 | 35 |
| SZ-17 | SC-314 | SZ-17-A | 1/2 | 2 1/4 | 57 | 13/8 | 35 |
| SZ-18 | SC-314 | SZ-18-A | 9/16 | 2 1/4 | 57 | 13/8 | 35 |
| SZ-19 | SC-314 | SZ-19-A | 5/8 | 2 1/4 | 57 | 13/8 | 35 |

3/4" SQUARE DRIVE



| Number Complete | Part Number | | Hex Size IN. | Overall Length | | Insert Length | | Bit Length (A) | |
|-----------------|--------------|-------------|--------------|----------------|---------|---------------|---------|----------------|----|
| | Adapter Only | Insert Only | | IN. MM. | IN. MM. | IN. MM. | IN. MM. | IN. MM. | |
| SZ-30 | SC-720 | SZ-30-A | 3/8 | 2 5/8 | 67 | 19/16 | 40 | 29/32 | 23 |
| SZ-31 | SC-720 | SZ-31-A | 1/2 | 2 5/8 | 67 | 19/16 | 40 | 29/32 | 23 |
| SZ-32 | SC-720 | SZ-32-A | 9/16 | 2 5/8 | 67 | 19/16 | 40 | 29/32 | 23 |
| SZ-33 | RP-720 | SZ-33-A | 5/8 | 2 5/8 | 67 | 19/16 | 40 | 29/32 | 23 |
| SZ-34 | RP-720 | SZ-34-A | 3/4 | 2 5/8 | 67 | 19/16 | 40 | 29/32 | 23 |
| SZ-37 | RP-728 | SZ-37-A | 3/4 | 3 1/8 | 79 | 2 | 51 | 11/8 | 29 |
| SZ-35 | SC-720 | SZ-35-A | 7/8 | 2 5/8 | 67 | 19/16 | 40 | 29/32 | 23 |
| SZ-38 | RP-728 | SZ-38-A | 7/8 | 3 1/8 | 79 | 2 | 51 | 11/8 | 29 |
| SZ-36 | RP-720 | SZ-36-A | 1 | 2 5/8 | 67 | 19/16 | 40 | 29/32 | 23 |

1/2" SQUARE DRIVE



| Number Complete | Part Number | | Hex Size IN. | Overall Length | | Insert Length | |
|-----------------|--------------|-------------|--------------|----------------|---------|---------------|----|
| | Adapter Only | Insert Only | | IN. MM. | IN. MM. | IN. MM. | |
| SZ-41 | SC-514 | SZ-11-A | 5/32 | 2 1/2 | 64 | 13/8 | 35 |
| SZ-20 | SC-514 | SZ-12-A | 3/16 | 2 1/2 | 64 | 13/8 | 35 |
| SZ-21 | SC-514 | SZ-13-A | 7/32 | 2 1/2 | 64 | 13/8 | 35 |
| SZ-22 | SC-514 | SZ-14-A | 1/4 | 2 1/2 | 64 | 13/8 | 35 |
| SZ-23 | SC-514 | SZ-15-A | 5/16 | 2 1/2 | 64 | 13/8 | 35 |
| SZ-24 | SC-514 | SZ-16-A | 3/8 | 2 1/2 | 64 | 13/8 | 35 |
| SZ-25 | SC-514 | SZ-17-A | 1/2 | 2 1/2 | 64 | 13/8 | 35 |
| SZ-42 | SC-520 | SZ-31-A | 1/2 | 2 1/2 | 64 | 19/16 | 40 |
| SZ-43 | SC-514 | SZ-18-A | 9/16 | 2 1/2 | 64 | 13/8 | 35 |
| SZ-44 | SC-520 | SZ-32-A | 9/16 | 2 1/2 | 64 | 19/16 | 40 |
| SZ-26 | SC-514 | SZ-19-A | 5/8 | 2 1/2 | 64 | 13/8 | 35 |
| SZ-27 | RP-520 | SZ-33-A | 5/8 | 2 1/2 | 64 | 19/16 | 40 |

1" SQUARE DRIVE



| Number Complete | Part Number | | Hex Size IN. | Overall Length | | Insert Length | | Bit Length (A) | |
|-----------------|--------------|-------------|--------------|----------------|---------|---------------|---------|----------------|----|
| | Adapter Only | Insert Only | | IN. MM. | IN. MM. | IN. MM. | IN. MM. | IN. MM. | |
| SZ-80 | RP-820 | SZ-31-A | 1/2 | 3 1/16 | 78 | 19/16 | 40 | 29/32 | 23 |
| SZ-85 | RP-828 | SZ-85-A | 5/8 | 3 1/4 | 83 | 2 | 51 | 11/8 | 29 |
| SZ-86 | RP-820 | SZ-34-A | 3/4 | 3 1/32 | 77 | 19/16 | 40 | 29/32 | 23 |
| SZ-87 | RP-828 | SZ-37-A | 3/4 | 3 1/4 | 83 | 2 | 51 | 11/8 | 29 |
| SZ-88 | SC-820 | SZ-35-A | 7/8 | 3 1/16 | 78 | 19/16 | 40 | 29/32 | 23 |
| SZ-89 | RP-828 | SZ-38-A | 7/8 | 3 1/4 | 83 | 2 | 51 | 11/8 | 29 |
| SZ-91 | RP-828 | SZ-39-A | 1 | 3 1/4 | 83 | 2 | 51 | 11/8 | 29 |
| SZ-101 | RP-848 | SZ-101-A | 1 1/4 | 3 1/2 | 89 | 2 5/8 | 67 | 11/8 | 35 |

An "RP" prefix indicates adapters with a roll pin that is inserted through the bit.

7/16" HEX INSERT BIT ONLY



| Part Number | Hex Size IN. | Overall Length | |
|-------------|--------------|----------------|-----|
| | | IN. MM. | MM. |
| SZ-12-A-2 | 3/16 | 2 | 51 |
| SZ-15-A-2 | 5/16 | 2 | 51 |
| SZ-11-A-3 | 5/32 | 3 | 76 |
| SZ-12-A-3 | 3/16 | 3 | 76 |
| SZ-13-A-3 | 7/32 | 3 | 76 |
| SZ-14-A-3 | 1/4 | 3 | 76 |
| SZ-15-A-3 | 5/16 | 3 | 76 |
| SZ-16-A-3 | 3/8 | 3 | 76 |
| SZ-14-A-4 | 1/4 | 4 | 102 |
| SZ-15-A-4 | 5/16 | 4 | 102 |
| SZ-16-A-4 | 3/8 | 4 | 102 |
| SZ-12-A-6 | 3/16 | 6 | 152 |

SOCKET HEAD BIT & ADAPTER SETS, SAE



| | |
|-------|---|
| APH38 | 8 piece, 3/8" square drive: 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8 |
| APH56 | 6 piece, 1/2" square drive: 1/4, 5/16, 3/8, 1/2, 9/16, 5/8 |

SOCKET HEAD BIT & ADAPTER SETS, METRIC



| | |
|--------|--|
| APH35M | 5 piece, 3/8" square drive: 4mm, 5mm, 6mm, 8mm, 10mm |
| APH56M | 6 piece, 1/2" square drive: 6mm, 8mm, 10mm, 12mm, 14mm, 17mm |

SOCKET HEAD ADAPTERS & INSERTS, METRIC

3/8" SQUARE DRIVE



| Number Complete | Part Number | | Hex Size | Overall Length | | Insert Length | | Bit Length (A) | |
|-----------------|--------------|-------------|----------|----------------|-----|---------------|-----|----------------|-----|
| | Adapter Only | Insert Only | | MM. | IN. | MM. | IN. | MM. | IN. |
| SZ-3-7-4MM | SC-314 | SZ-7-4mm | 4 | 2 1/4 | 57 | 13/8 | 35 | 7/8 | 22 |
| SZ-3-7-5MM | SC-314 | SZ-7-5mm | 5 | 2 1/4 | 57 | 13/8 | 35 | 7/8 | 22 |
| SZ-3-7-6MM | SC-314 | SZ-7-6mm | 6 | 2 1/4 | 57 | 13/8 | 35 | 7/8 | 22 |
| SZ-3-7-8MM | SC-314 | SZ-7-8mm | 8 | 2 1/4 | 57 | 13/8 | 35 | 7/8 | 22 |
| SZ-3-7-10MM | SC-314 | SZ-7-10mm | 10 | 2 1/4 | 57 | 13/8 | 35 | 7/8 | 22 |

1/2" SQUARE DRIVE



| Number Complete | Part Number | | Hex Size | Overall Length | | Insert Length | | Bit Length (A) | |
|-----------------|--------------|-------------|----------|----------------|-----|---------------|-----|----------------|-----|
| | Adapter Only | Insert Only | | MM. | IN. | MM. | IN. | MM. | IN. |
| SZ-5-7-4MM | SC-514 | SZ-7-4MM | 4 | 2 1/2 | 63 | 13/8 | 35 | 7/8 | 22 |
| SZ-5-7-5MM | SC-514 | SZ-7-5MM | 5 | 2 1/2 | 63 | 13/8 | 35 | 7/8 | 22 |
| SZ-5-7-6MM | SC-514 | SZ-7-6MM | 6 | 2 1/2 | 63 | 13/8 | 35 | 7/8 | 22 |
| SZ-5-7-8MM | SC-514 | SZ-7-8MM | 8 | 2 1/2 | 63 | 13/8 | 35 | 7/8 | 22 |
| SZ-5-7-10MM | SC-514 | SZ-7-10MM | 10 | 2 1/2 | 63 | 13/8 | 35 | 7/8 | 22 |
| SZ-5-7-12MM | SC-514 | SZ-7-12MM | 12 | 2 1/2 | 63 | 13/8 | 35 | 7/8 | 22 |
| SZ-5-7-14MM | SC-514 | SZ-7-14MM | 14 | 2 1/2 | 63 | 13/8 | 35 | 15/16 | 24 |
| SZ-5-10-14MM | RP-520 | SZ-10-14MM | 14 | 2 1/2 | 63 | 19/16 | 40 | 29/32 | 23 |
| SZ-5-10-17MM | RP-520 | SZ-10-17MM | 17 | 2 1/2 | 63 | 19/16 | 40 | 29/32 | 23 |
| SZ-5-10-19MM | RP-520 | SZ-10-19MM | 19 | 2 1/2 | 63 | 19/16 | 40 | 29/32 | 23 |

3/4" SQUARE DRIVE



| Number Complete | Part Number | | Hex Size | Overall Length | | Insert Length | | Bit Length (A) | |
|-----------------|--------------|--------------|----------|----------------|-----|---------------|-----|----------------|-----|
| | Adapter Only | Insert Only | | MM. | IN. | MM. | IN. | MM. | IN. |
| SZ-7-10-10MM | RP-720 | SZ-7-10-10MM | 10 | 2 1/2 | 64 | 19/16 | 40 | 29/32 | 23 |
| SZ-7-10-12MM | RP-720 | SZ-7-10-12MM | 12 | 2 1/2 | 64 | 19/16 | 40 | 29/32 | 23 |
| SZ-7-10-14MM | RP-720 | SZ-7-10-14MM | 14 | 2 1/2 | 64 | 19/16 | 40 | 29/32 | 23 |
| SZ-7-10-17MM | RP-720 | SZ-7-10-17MM | 17 | 2 1/2 | 64 | 19/16 | 40 | 29/32 | 23 |

1" SQUARE DRIVE



| Number Complete | Part Number | | Hex Size | Overall Length | | Insert Length | | Bit Length (A) | |
|-----------------|--------------|-------------|----------|----------------|-----|---------------|-----|----------------|-----|
| | Adapter Only | Insert Only | | MM. | IN. | MM. | IN. | MM. | IN. |
| SZ-8-14-17MM | RP-828 | SZ-14-17MM | 17 | 3 5/16 | 84 | 2 | 51 | 11/8 | 29 |
| SZ-8-14-19MM | RP-828 | SZ-14-19MM | 19 | 3 5/16 | 84 | 2 | 51 | 11/8 | 29 |
| SZ-8-14-22MM | RP-828 | SZ-14-22MM | 22 | 3 5/16 | 84 | 2 | 51 | 11/8 | 29 |
| SZ-8-14-24MM | RP-828 | SZ-14-24MM | 24 | 3 5/16 | 84 | 2 | 51 | 11/8 | 29 |
| SZ-8-14-27MM | RP-828 | SZ-14-27MM | 27 | 3 5/16 | 84 | 2 | 51 | 11/8 | 29 |

SQUARE RECESS BITS

1/4" HEX INSERT BITS



| Part Number | Point Size | Nominal Size IN. | Overall Length | |
|-------------|------------|------------------|----------------|-----|
| | | | IN. | MM. |
| 950-0X | 0 | 1/16 | 1 | 25 |
| 950-1X | 1 | 3/32 | 1 | 25 |
| 950-2X | 2 | 1/8 | 1 | 25 |
| 950-3X | 3 | 9/64 | 1 | 25 |

1/4" HEX POWER DRIVE



| Part Number | Point Size | Nominal Size IN. | Overall Length | |
|-------------|------------|------------------|----------------|-----|
| | | | IN. | MM. |
| 954-0X | 0 | 1/16 | 115/16 | 49 |
| 954-A-0X | 0 | 1/16 | 2 3/4 | 70 |
| 954-C-0X | 0 | 1/16 | 6 | 152 |
| 954-1X | 1 | 3/32 | 115/16 | 49 |
| 954-A-1X | 1 | 3/32 | 2 3/4 | 70 |
| 954-B-1X | 1 | 3/32 | 3 1/2 | 89 |
| 954-C-1X | 1 | 3/32 | 6 | 152 |
| 954-2X | 2 | 1/8 | 115/16 | 49 |
| 954-A-2X | 2 | 1/8 | 2 3/4 | 70 |
| 954-B-2X | 2 | 1/8 | 3 1/2 | 89 |
| 954-C-2X | 2 | 1/8 | 6 | 152 |
| 954-3X | 3 | 9/64 | 115/16 | 49 |
| 954-A-3X | 3 | 9/64 | 2 3/4 | 70 |
| 954-B-3X | 3 | 9/64 | 3 1/2 | 89 |
| 954-C-3X | 3 | 9/64 | 6 | 152 |

SQUARE RECESS BITS

1/4" HEX POWER DRIVE TURNED BODY



| Part Number | Point Size | Nominal Size IN. | Overall Length IN. MM. | |
|-------------|------------|------------------|---------------------------|-----|
| 1950-0X | 0 | 1/16 | 1 15/16 | 49 |
| 1951-0X | 0 | 1/16 | 2 3/4 | 70 |
| 1950-1X | 1 | 3/32 | 1 15/16 | 49 |
| SD-5535 | 1 | 3/32 | 1 15/16 | 49 |
| 1951-1X | 1 | 3/32 | 2 3/4 | 70 |
| 1953-1X | 1 | 3/32 | 3 1/2 | 89 |
| 1950-2X | 2 | 1/8 | 1 15/16 | 49 |
| 1951-2X | 2 | 1/8 | 2 3/4 | 70 |
| 1953-2X | 2 | 1/8 | 3 1/2 | 89 |
| 1956-2X | 2 | 1/8 | 6 | 152 |
| 1950-3X | 3 | 9/64 | 1 15/16 | 49 |
| 1951-3X | 3 | 9/64 | 2 3/4 | 70 |
| 1953-3X | 3 | 9/64 | 3 1/2 | 89 |

TRIPLE SQUARE BITS

1/4" HEX INSERT BITS



| Part Number | Point Size MM. | Overall Length IN. MM. | |
|-------------|----------------|---------------------------|----|
| 440-TSQ-4M | 4 | 1 | 25 |
| 440-TSQ-5M | 5 | 1 | 25 |
| 440-TSQ-6M | 6 | 1 | 25 |
| 440-TSQ-8M | 8 | 1 | 25 |
| 440-TSQ-10M | 10 | 1 | 25 |

5/16" HEX INSERT BITS



| Part Number | Point Size MM. | Overall Length IN. MM. | |
|-------------|----------------|---------------------------|----|
| 480-TSQ-6M | 6 | 1 1/4 | 32 |
| 480-TSQ-8M | 8 | 1 1/4 | 32 |
| 480-TSQ-10M | 10 | 1 1/4 | 32 |
| 480-TSQ-12M | 12 | 1 1/4 | 32 |
| 480-TSQ-14M | 14 | 1 1/4 | 32 |

1/4" HEX POWER DRIVE



| Part Number | Point Size MM. | Overall Length IN. MM. | |
|-------------|----------------|---------------------------|----|
| 49-TSQ-4M | 4 | 2 | 50 |
| 49-TSQ-5M | 5 | 2 | 50 |
| 49-TSQ-6M | 6 | 2 | 50 |
| 49-TSQ-8M | 8 | 2 | 50 |
| 49-TSQ-10M | 10 | 2 | 50 |
| 49-TSQ-12M | 12 | 2 | 50 |

7/16" HEX POWER DRIVE



| Part Number | Point Size MM. | Overall Length IN. MM. | |
|-------------|----------------|---------------------------|----|
| 48-TSQ-5M | 5 | 3 1/2 | 88 |
| 48-TSQ-6M | 6 | 3 1/2 | 88 |
| 48-TSQ-8M | 8 | 3 1/2 | 88 |
| 48-TSQ-10M | 10 | 3 1/2 | 88 |
| 48-TSQ-12M | 12 | 3 1/2 | 88 |
| 48-TSQ-14M | 14 | 3 1/2 | 88 |

MALE SQUARE INSERTS FOR PIPE PLUGS

1/4" TO 1/2" MALE SQUARE



| Part Number | Male Hex IN. | Male Square IN. | Overall Length IN. MM. | |
|-------------|--------------|-----------------|---------------------------|----|
| P-1408 | 7/16 | 1/4 | 1 1/4 | 32 |
| P-1409 | 7/16 | 9/32 | 1 1/4 | 32 |
| P-1410 | 7/16 | 5/16 | 1 1/4 | 32 |
| P-1412 | 7/16 | 3/8 | 1 1/4 | 32 |
| P-1414 | 7/16 | 7/16 | 1 1/4 | 32 |
| P-1416 | 7/16 | 1/2 | 1 1/4 | 32 |
| P-2010 | 5/8 | 5/16 | 1 1/2 | 38 |
| P-2012 | 5/8 | 3/8 | 1 1/2 | 38 |
| P-2014 | 5/8 | 7/16 | 1 1/2 | 38 |
| P-2016 | 5/8 | 1/2 | 1 1/2 | 38 |

Note: For pipe plug inserts use SC and RP bit holders found on page 35.

TORQ-SET® BITS

1/4" HEX POWER DRIVE



1/4" HEX INSERT BITS



| Part Number | Point Size | Overall Length IN. MM. | |
|-------------|------------|---------------------------|----|
| 212-0 | 0 | 1 | 25 |
| 212-1/4 | 1/4 | 1 | 25 |
| 212-1 | 1 | 1 | 25 |
| 212-2 | 2 | 1 | 25 |
| 212-3 | 3 | 1 | 25 |
| 212-4 | 4 | 1 | 25 |
| 212-5 | 5 | 1 | 25 |
| 212-6 | 6 | 1 | 25 |
| 212-8 | 8 | 1 | 25 |
| 212-10 | 10 | 1 | 25 |

1/4" HEX INSERT BITS – ACR®

ACR®RIBS FOR REMOVAL ONLY



| Part Number | Point Size | Overall Length IN. MM. | |
|-------------|------------|---------------------------|----|
| 212-1/4-ACR | 1/4 | 1 1/4 | 32 |
| 212-4-ACR | 4 | 1 | 25 |
| 212-6-ACR | 6 | 1 1/4 | 32 |
| 212-8-ACR | 8 | 1 1/4 | 32 |
| 212-10-ACR | 10 | 1 1/4 | 32 |

5/16" HEX INSERT BITS



| Part Number | Point Size | Overall Length IN. MM. | |
|-------------|------------|---------------------------|----|
| 212-1/4A | 1/4 | 1 1/4 | 32 |
| 212-5/16A | 5/16 | 1 1/4 | 32 |
| 212-3/8A | 3/8 | 1 1/4 | 32 |
| 212-8A | 8 | 1 1/4 | 32 |
| 212-10A | 10 | 1 1/4 | 32 |

5/16" HEX INSERT BITS – ACR®

ACR®RIBS FOR REMOVAL ONLY



| Part Number | Point Size | Overall Length IN. MM. | |
|---------------|------------|---------------------------|----|
| 212-1/4A-ACR | 1/4 | 1 1/4 | 32 |
| 212-5/16A-ACR | 5/16 | 1 1/4 | 32 |

| Part Number | Point Size | Overall Length IN. MM. | |
|-------------|------------|---------------------------|-----|
| 170-0 | 0 | 1 1/4 | 32 |
| 273-0 | 0 | 1 15/16 | 49 |
| 273B-0 | 0 | 2 3/4 | 49 |
| 265-0 | 0 | 3 1/2 | 89 |
| 265A-0 | 0 | 6 | 152 |
| 170-1/4B | 1/4 | 1 1/4 | 32 |
| 170-5/16B | 5/16 | 1 1/4 | 32 |
| 170-3/8B | 3/8 | 1 1/4 | 32 |
| 170-1 | 1 | 1 1/4 | 32 |
| 273A-1 | 1 | 1 13/16 | 46 |
| 273-1 | 1 | 1 15/16 | 49 |
| 273B-1 | 1 | 2 3/4 | 49 |
| 265-1 | 1 | 3 1/2 | 89 |
| 170-2 | 2 | 1 1/4 | 32 |
| 273A-2 | 2 | 1 13/16 | 46 |
| 273-2 | 2 | 1 15/16 | 49 |
| 273B-2 | 2 | 2 3/4 | 70 |
| 265-2 | 2 | 3 1/2 | 89 |
| 265A-1 | 1 | 6 | 152 |
| 265A-2 | 2 | 6 | 152 |
| 170-3 | 3 | 1 1/4 | 32 |
| 273A-3 | 3 | 1 13/16 | 46 |
| 273-3 | 3 | 1 15/16 | 49 |
| 273B-3 | 3 | 2 3/4 | 70 |
| 265-3 | 3 | 3 1/2 | 89 |
| 265A-3 | 3 | 6 | 152 |
| 170-4 | 4 | 1 1/4 | 32 |
| 273A-4 | 4 | 1 13/16 | 46 |
| 273-4 | 4 | 1 15/16 | 49 |
| 273B-4 | 4 | 2 3/4 | 70 |
| 265-4 | 4 | 3 1/2 | 89 |
| 265A-4 | 4 | 6 | 152 |
| 170-5 | 5 | 1 1/4 | 32 |
| 273-5 | 5 | 1 15/16 | 49 |
| 273B-5 | 5 | 2 3/4 | 70 |
| 265-5 | 5 | 3 1/2 | 89 |
| 265A-5 | 5 | 6 | 152 |
| 170-6 | 6 | 1 1/4 | 32 |
| 273A-6 | 6 | 1 13/16 | 46 |
| 273-6 | 6 | 1 15/16 | 49 |
| 273B-6 | 6 | 2 3/4 | 70 |
| 265-6 | 6 | 3 1/2 | 89 |
| 265A-6 | 6 | 6 | 152 |
| 170-8 | 8 | 1 1/4 | 32 |
| 273A-8 | 8 | 1 13/16 | 46 |
| 273-8 | 8 | 1 15/16 | 49 |
| 273B-8 | 8 | 2 3/4 | 70 |
| 265-8 | 8 | 3 1/2 | 89 |
| 265A-8 | 8 | 6 | 152 |
| 170-10 | 10 | 1 1/4 | 32 |
| 273A-10 | 10 | 1 13/16 | 46 |
| 273-10 | 10 | 1 15/16 | 49 |
| 273B-10 | 10 | 2 3/4 | 70 |
| 265-10 | 10 | 3 1/2 | 89 |
| 265A-10 | 10 | 6 | 152 |

TORQ-SET® BITS

1/4" HEX POWER DRIVE – ACR®



| Part Number | Point Size | Overall Length IN. MM. |
|-------------|------------|---------------------------|
|-------------|------------|---------------------------|

| | | |
|------------|----|---------|
| 170-6-ACR | 6 | 11/4 32 |
| 170-8-ACR | 8 | 11/4 32 |
| 170-10-ACR | 10 | 11/4 32 |

5/16" HEX POWER DRIVE



| Part Number | Point Size | Overall Length IN. MM. |
|-------------|------------|---------------------------|
|-------------|------------|---------------------------|

| | | |
|-----------|------|---------|
| 170-1/4A | 1/4 | 11/4 32 |
| 170-3/8A | 3/8 | 11/4 32 |
| 170-5/16A | 5/16 | 11/4 32 |
| 170-8A | 8 | 11/4 32 |
| 170-10A | 10 | 11/4 32 |

7/16" HEX POWER DRIVE



| Part Number | Point Size | Overall Length IN. MM. |
|-------------|------------|---------------------------|
|-------------|------------|---------------------------|

| | | |
|-----------|------|---------|
| 170-1/4 | 1/4 | 11/4 32 |
| 265-1/4 | 1/4 | 31/2 89 |
| 265A-1/4 | 1/4 | 6 152 |
| 170-5/16 | 5/16 | 11/4 32 |
| 265-5/16 | 5/16 | 31/2 89 |
| 265A-5/16 | 5/16 | 6 152 |
| 170-3/8 | 3/8 | 11/4 32 |
| 170-3/8C | 3/8 | 11/4 32 |
| 170-7/16 | 7/16 | 11/4 32 |
| 170-7/16C | 7/16 | 11/4 32 |
| 265A-3/8 | 3/8 | 6 152 |
| 265A-7/16 | 7/16 | 6 152 |

7/16" HEX POWER DRIVE – ACR®

ACR®RIBS FOR REMOVAL ONLY



| Part Number | Point Size | Overall Length IN. MM. |
|-------------|------------|---------------------------|
|-------------|------------|---------------------------|

| | | |
|--------------|------|---------|
| 170-1/4-ACR | 1/4 | 11/4 32 |
| 170-5/16-ACR | 5/16 | 11/4 32 |

5/8" HEX POWER DRIVE



| Part Number | Point Size | Overall Length IN. MM. |
|-------------|------------|---------------------------|
|-------------|------------|---------------------------|

| | | |
|----------|------|---------|
| 170-1/2 | 1/4 | 11/4 32 |
| 170-9/16 | 9/16 | 11/4 32 |
| 170-5/8 | 5/8 | 11/4 32 |

TRI-WING®

1/4" HEX INSERT BITS



| Part Number | Recess Size | Screw Size Tension Head | Screw Size Shear Head | Overall Length IN. MM. |
|-------------|-------------|----------------------------|--------------------------|---------------------------|
|-------------|-------------|----------------------------|--------------------------|---------------------------|

| | | | | |
|-------|---|-------|--------|------|
| TWD-0 | 0 | 0-80 | – | 1 25 |
| TWD-1 | 1 | 2-56 | 4-40 | 1 25 |
| TWD-2 | 2 | 4-40 | 6-32 | 1 25 |
| TWD-3 | 3 | 6-32 | 8-32 | 1 25 |
| TWD-4 | 4 | 8-32 | 10-32 | 1 25 |
| TWD-5 | 5 | 10-32 | 1/4-28 | 1 25 |
| TWD-6 | 6 | 1/4 | 5/16 | 1 25 |
| TWD-7 | 7 | 5/16 | 3/8 | 1 25 |

1/4" HEX INSERT BITS – ACR®

ACR®RIBS FOR REMOVAL ONLY



| Part Number | Recess Size | Screw Size Tension Head | Screw Size Shear Head | Overall Length IN. MM. |
|-------------|-------------|----------------------------|--------------------------|---------------------------|
|-------------|-------------|----------------------------|--------------------------|---------------------------|

| | | | | |
|-----------|---|-------|--------|------|
| TWD-4-ACR | 4 | 8-32 | 10-32 | 1 25 |
| TWD-5-ACR | 5 | 10-32 | 1/4-28 | 1 25 |

5/16" HEX INSERT BITS



| Part Number | Recess Size | Screw Size Tension Head | Screw Size Shear Head | Overall Length IN. MM. |
|-------------|-------------|----------------------------|--------------------------|---------------------------|
|-------------|-------------|----------------------------|--------------------------|---------------------------|

| | | | | |
|-------|---|-------|--------|---------|
| TWE-4 | 4 | 8-32 | 10-32 | 11/4 32 |
| TWE-5 | 5 | 10-32 | 1/4-28 | 11/4 32 |

1/4" HEX POWER DRIVE



| Part Number | Recess Size | Screw Size Tension Head | Screw Size Shear Head | Overall Length IN. MM. |
|-------------|-------------|----------------------------|--------------------------|---------------------------|
|-------------|-------------|----------------------------|--------------------------|---------------------------|

| | | | | |
|-------|---|---------|---------|---------|
| TW-0 | 0 | 0-80 | – | 11/4 32 |
| TW-1 | 1 | 2-56 | 4-40 | 11/4 32 |
| TW-2 | 2 | 4-40 | 6-32 | 11/4 32 |
| TW-3 | 3 | 6-32 | 8-32 | 11/4 32 |
| TW-4 | 4 | 8-32 | 10-32 | 11/4 32 |
| TW-5 | 5 | 10-32 | 1/4-28 | 11/4 32 |
| TWB-6 | 6 | 1/4-28 | 5/16-24 | 11/4 32 |
| TWB-7 | 7 | 5/16-24 | 3/8-24 | 11/4 32 |
| TWB-8 | 8 | 3/8-24 | 7/16-20 | 11/4 32 |

5/16" HEX POWER DRIVE



| Part Number | Recess Size | Screw Size Tension Head | Screw Size Shear Head | Overall Length IN. MM. | |
|-------------|-------------|-------------------------|-----------------------|------------------------|----|
| TWA-6 | 6 | 1/4-28 | 5/16-24 | 11/4 | 32 |
| TWA-7 | 7 | 5/16-24 | 3/8-24 | 11/4 | 32 |
| TWA-8 | 8 | 3/8-24 | 7/16-20 | 11/4 | 32 |

7/16" HEX POWER DRIVE



| Part Number | Recess Size | Screw Size Tension Head | Screw Size Shear Head | Overall Length IN. MM. | |
|-------------|-------------|-------------------------|-----------------------|------------------------|----|
| TW-6 | 6 | 1/4-28 | 5/16-24 | 11/4 | 32 |
| TW-7 | 7 | 5/16-24 | 3/8-24 | 11/4 | 32 |

HI-TORQUE® BITS

1/4" SQUARE DRIVE BITS



| Part Number | Recess Size | Overall Length IN. | Body Dia. IN. | Blade Thickness IN. | Blade Width IN. |
|-------------|-------------|--------------------|---------------|---------------------|-----------------|
| HTS-0 | 0 | 1 | 1/2 | .029 | 0.167 |
| HTS-1 | 1 | 1 | 1/2 | .049 | 0.274 |
| HTS-2 | 2 | 1 | 1/2 | .059 | 0.295 |
| HTS-3 | 3 | 1 | 1/2 | .059 | 0.377 |
| HTS-4 | 4 | 1 | 1/2 | .073 | 0.502 |

3/8" SQUARE DRIVE BITS



| Part Number | Recess Size | Overall Length IN. | Body Dia. IN. | Blade Thickness IN. | Blade Width IN. |
|-------------|-------------|--------------------|---------------|---------------------|-----------------|
| HTS-2A | 2 | 11/4 | 3/4 | .059 | 0.295 |
| HTS-3A | 3 | 1 | 3/4 | .059 | 0.377 |
| HTS-4A | 4 | 1 | 3/4 | .073 | 0.502 |
| HTS-5 | 5 | 11/4 | 3/4 | .079 | 0.629 |
| HTS-6 | 6 | 11/4 | 3/4 | .095 | 0.745 |

1/2" SQUARE DRIVE BITS



| Part Number | Recess Size | Overall Length IN. | Body Dia. IN. | Blade Thickness IN. | Blade Width IN. |
|-------------|-------------|--------------------|---------------|---------------------|-----------------|
| HTS-7 | 7 | 15/8 | 1 | .112 | 0.884 |
| HTS-8 | 8 | 15/8 | 1 | .142 | 0.995 |
| HTS-9 | 9 | 15/8 | 11/4 | .162 | 1.136 |
| HTS-10 | 10 | 15/8 | 11/4 | .182 | 1.250 |
| HTS-12 | 12 | 2 3/8 | 11/4 | .216 | 1.500 |

1/4" HEX INSERT BITS



| Part Number | Recess Size | Overall Length IN. | Body Dia. IN. | Blade Thickness IN. | Blade Width IN. |
|-------------|-------------|--------------------|---------------|---------------------|-----------------|
| HTN-B-1 | 1 | 11/4 | 9/32 | .049 | 0.274 |
| HTN-B-2 | 2 | 11/4 | 5/16 | .059 | 0.295 |
| HTN-B-3 | 3 | 11/4 | 3/8 | .059 | 0.377 |
| HTN-B-4 | 4 | 11/4 | 1/2 | .073 | 0.502 |

| | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|----|-----|------|-----|------|-----|------|-----|-----|
| Nominal Screw Size | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 |
| Hi-Torque Recess | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 |

⊕ B.N.A.E. BITS

1/4" HEX INSERT BITS



| Part Number | Point Size MM. | Overall Length IN. MM. | |
|-------------|----------------|------------------------|----|
| BNAE-3MM | 3 | 11/8 | 29 |
| BNAE-4MM | 4 | 11/8 | 29 |
| BNAE-5MM | 5 | 11/8 | 29 |
| BNAE-6MM | 6 | 11/8 | 29 |
| BNAE-8MM | 8 | 11/8 | 29 |

1/4" HEX INSERT BITS – ACR®



| Part Number | Point Size MM. | Overall Length IN. MM. | |
|--------------|----------------|------------------------|----|
| BNAE-4MM-ACR | 4 | 11/8 | 29 |
| BNAE-5MM-ACR | 5 | 11/8 | 29 |
| BNAE-8MM-ACR | 8 | 11/8 | 29 |

ACR® ribs for
both removal
and driving



FASTENER TOOLS FOR THE AIRCRAFT INDUSTRY:

APEX offers a full selection of fastener tools common to aircraft assembly and maintenance, including Tri-Wing®, Torq-Set®, and Hi-Torque®. More details are available in the APEX Aerospace catalog, SP-354-EN.