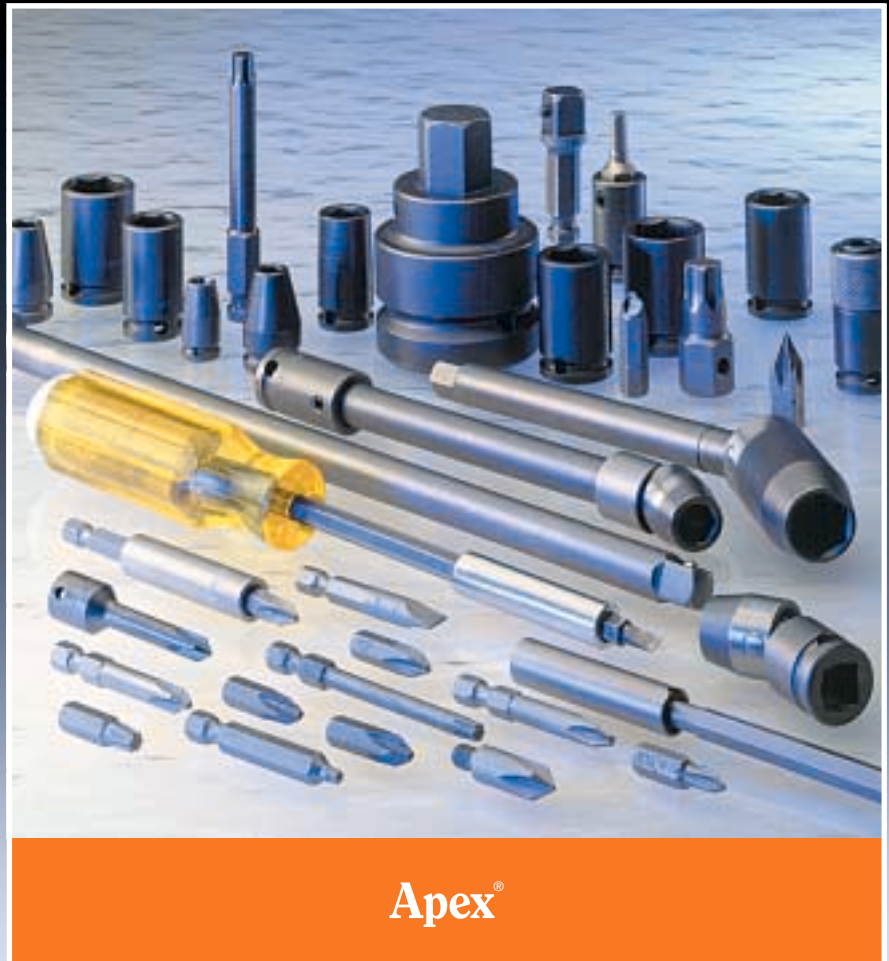


# CooperTools



**FASTENER TOOLS**

**COOPER** Tools

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# The Apex heritage of quality, delivery and support.

## For more than half a century...

Apex has maintained a position of leadership in industrial fastening tools. Today, Apex stands ready to improve the productivity of assembly operations around the world with unsurpassed tool performance and customer service. Here's how:

### Highest Quality

---

Apex quality begins with select raw materials. Only carefully chosen, high grade tool steel is used. Each tool is precision machined from solid bar stock to close-tolerance standards. You get an exact, sure fit – a fit not possible from tools made in a process that grows less precise with every stamp. Finally, each tool is tempered with the exclusive Apex heat treating process that lets you select the degree of hardness you require. Choose from tough, non-brittle durability that stands up to torque, to the hardest heat treat available for the ultimate in wear resistance.



### Rapid Select Means Fast Delivery

---



Models indicated with a **Rapid Select** icon represent our most popular tools, and are available for fast delivery on limited quantities. On bit items, the heat treat code has been added to Rapid Select part numbers. See page vi for selecting the proper heat treat.

### Complete Support For Your Requirements

---

Apex provides the broadest selection of fastener tools in the world. From this catalog you can choose from over 5,000 individual items: from bits, sockets and hand drivers to universal wrenches, extensions and adapters. If the tool you need is not in this catalog, call your Apex representative. We may have what you need as a non-catalog item—or our experienced staff of tooling experts can design and produce application specific fastener tools to suit your needs.



Apex is the standard on assembly lines around the world.



Precision manufactured with the highest quality materials.



Responsive service for all your fastener tool needs.



Made in the U.S.A. since 1933.



## User safety tips

---

- Always wear safety glasses when using any tool.
- Always visually inspect tool for damage and cracking. Immediately replace all damaged tools.
- Do not modify or alter any tool.
- Do not use tools beyond their limit or useful life.
- Contact Apex for the recommended operating torque of any tool.

## Selecting the proper heat treat for bits

---

Choosing the proper heat treat for screwdriver tools 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 available**

**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.

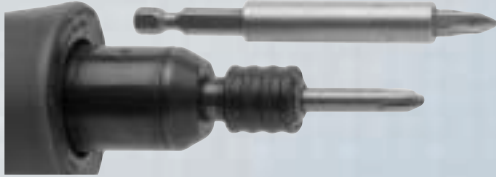
To specify a particular heat treat, add a letter suffix to the part number. For example, to specify "X" hardness in a #2 Phillips insert, the part number would be 440-2X. Not all Apex bits are available in all heat treats. Special heat treats can be supplied for a particular application. Contact your Apex representative for specific recommendations.

## Warning

---

- Using any adapter may result in a torque overload and failure in the adapter, socket or fastener.
- Do not use thin wall sockets with impact power tools.
- Do not use universal wrenches with impact power tools.

# APEX® Solutions



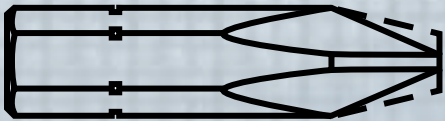
## **What's the difference between an insert and a power bit?**

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 48-52 for a complete listing of Apex bit holders.



## **What's the advantage of reduced diameter bits?**

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



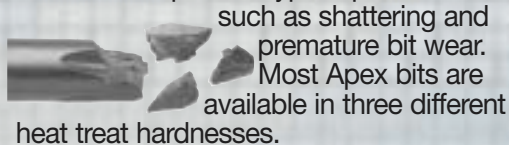
## **What's the advantage of 27 Series bits?**

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



## **Why do Apex bits last so much longer?**

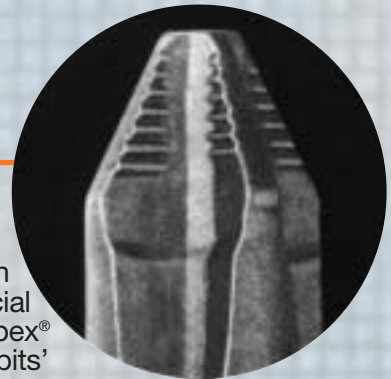
Apex's premium tool alloys and proprietary heat treat help avoid typical problems



such as shattering and premature bit wear. Most Apex bits are available in three different heat treat hardnesses. Refer to page vi for information on selecting the proper heat treat.

## **What's the 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.



# In this section...

## Insert and Power Drive Bits



For all these fastener styles:

Phillips®		Sel-o-fit®		Clutch Head	
Slotted		Frearson		Torq-Set®	
Torx®		B.N.A.E.		Tri-Wing®	
Torx Plus®		Socket Head		Hi-Torque®	
Pozidriv®		Square Recess		Triple Square	

## Bit Holders, Nutsetters, Extensions and Universal Wrenches



Bit holders adapt hex drive and female square drive power tools to a variety of insert bits. Hex drive nutsetters, extensions and universal wrenches allow nutrunning in all types of applications.

## Selecting the correct Phillips point size

Apex bits in these five point sizes will drive ANY Phillips screw











Point Size	Wood Screws			Machine Screws			Sheet Metal Screws Flat, Round, Oval, Stove, Binding
	Body Dia.	Flat, Oval	Round	Flat, Oval, Binding	Round, Fillister	Truss, Brazier, Button	
0	0	0	0	0	0	0	
1	3/16	2	2	2	2	2	2
	3	3	3	3	3	3	
	4	4	4	4	4	4	
2	1/4	5	5	5	5	5	5
	6	6	6	6	8	6	
	7	7	8	8	10	7	
	8	8	10	10	8		
3	9	9	10				
	10						
	5/16	10	12	12	12	12	12
	12	14	1/4	1/4	1/4	14	
	14	16	5/16				
4	16						
	3/8	18	18	5/16	3/8	5/16	
	20	20	3/8	7/16	3/8		
	24	24	7/16	1/2	7/16		
	1/2	1/2					

**IMPORTANT** The table above will enable you to determine the Phillips point size required for any Phillips screws or bolts. The No. 2 and No. 3 point sizes cover the range of Phillips screws most commonly used. The Apex Phillips bits on the following pages are available in point sizes to drive any Phillips screw.



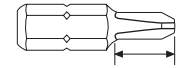
## 1/4" Hex Insert Bits








Part Number	Point Size	Overall Length		
		In.	mm	
440-1X 	1	1	25	
440-115	1	1 1/2	38	
440-12	1	2	51	
440-125	1	2 1/2	64	
440-13	1	3	76	
440-2X 	2	1	25	
440-2I 	2	1	25	
440-27*	2	1	25	For shallow screw recesses
440-215X 	2	1 1/2	38	
440-22X 	2	2	51	
440-225X 	2	2 1/2	64	
440-23	2	3	76	
440-24	2	4	101	
440-255	2	5 1/2	140	
440-26	2	6	152	
440-3X 	3	1	25	
440-3I 	3	1	25	
440-3125	3	1 1/4	32	
440-3BNX 	3	1 1/4	32	Large body
440-32	3	2	51	
440-325	3	2 1/2	64	
440-33	3	3	76	
440-34	3	4	101	
440-4X 	4	1 5/16	33	

\* For shallow screw recesses see Apex Solutions on Page vii.

## 1/4" Hex Insert Bits – Limited Clearance



Part Number	Point Size	Overall Length		Turned Length	
		In.	mm	In.	mm
446-0	0	1	25	7/16	11
446-1X 	1	1	25	7/16	11
446-12	1	2	51	7/16	11
SD-1055-A	1	2	51	1 3/8	35
446-2X 	2	1	25	7/16	11
446-2I 	2	1	25	7/16	11
446-27*	2	1	25	7/16	11
446-215	2	1 1/2	38	7/16	11
446-22	2	2	51	7/16	11
446-215T 	2	1 1/2	38	1	25
446-22TX 	2	2	51	1 1/2	38
446-225T	2	2 1/2	64	1 3/4	44
446-23T	2	3	76	2 1/4	57

\* For shallow screw recesses see Apex Solutions on Page vii.

## 1/4" Hex Insert Bits – ACR®



Part number suffix -R  
For removal






Part number suffix -D  
For driving



No part number suffix  
For both removal and driving







Part Number	Point Size	Overall Length		Limited Clearance
		In.	mm	
440-1-ACR1-R	1	1	25	
440-1-ACR1-D	1	1	25	
440-1-ACR1	1	1	25	
440-2-ACR2-RX 	2	1	25	
440-2-ACR2-RI	2	1	25	
440-2-ACR2-D	2	1	25	
440-2-ACR2X 	2	1	25	
446-2-ACR2-D	2	1	25	Limited Clearance
440-22-ACR2-R	2	2	51	
440-22-ACR2-D	2	2	51	
440-22-ACR2	2	2	51	
440-3-ACR3-RX 	3	1	25	
440-3-ACR3-D	3	1	25	
440-3-ACR3	3	1	25	

ACR® is a trademark of the Phillips Screw Co.

 Refer to Page iv for description of Rapid Select. Rapid Select bit part numbers have the heat treat code noted.

## 5/16" Hex Insert Bits



Part Number	Point Size	Overall Length		
		In.	mm	
480-1	1	1 1/4	32	
480-2X 	2	1 1/4	32	
480-27*	2	1 1/4	32	For shallow screw recesses
480-22	2	2	51	
480-225	2	2 1/2	64	
480-24	2	4	101	
480-3X 	3	1 1/4	32	
480-325	3	2 1/2	64	
480-34	3	4	101	
480-4X 	4	1 1/4	32	
480-4BNX 	4	1 1/2	38	Large body
480-425	4	2 1/2	64	

\* For shallow screw recesses see Apex Solutions on Page vii.

## 5/16" Hex Insert Bits – ACR®



Part number suffix -R  
For removal




Part number suffix -D  
For driving




No part number suffix  
For both removal  
and driving



Part Number	Point Size	Overall Length		
		In.	mm	
480-2-ACR2-R	2	1 1/4	32	
480-2-ACR2-D	2	1 1/4	32	
480-2-ACR2X 	2	1 1/4	32	
480-3-ACR3-R	3	1 1/4	32	
480-3-ACR3-D	3	1 1/4	32	
480-3-ACR3	3	1 1/4	32	
480-4-ACR4-R	4	1 1/4	32	
480-4-ACR4-D	4	1 1/4	32	
480-4-ACR4	4	1 1/4	32	





















## 5/16" Square Insert Bits



Part Number	Point Size	Overall Length In.	Overall Length mm	
830-1	1	1 1/8	29	
830-2X 	2	1 1/8	29	
830-27	2	1 1/8	29	For shallow screw recesses*
830-3	3	1 1/8	29	
830-4	4	1 1/8	29	

## 1/4" Hex Power Drive



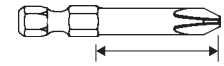
Part Number	Point Size	Overall Length In.	Overall Length mm	Body Diameter In.	Body Diameter mm	Turned Length In.	Turned Length mm
4910X 	0	1 15/16	49	1/8	3.2	1 1/4	32
4910-A	0	2 3/4	70	1/8	3.2	2	51
4910-BX 	0	3 1/2	89	1/8	3.2	2 3/4	70
4910-C	0	6	152	1/8	3.2	2	51
491X 	1	1 15/16	49	3/16	4.8	1 1/4	32
491-AX 	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-CX 	1	6	152	3/16	4.8	2	51
491-CCX 	1	6	152	3/16	4.8	5 1/4	133
492X 	2	1 15/16	49	1/4	6.4	1 1/4	32
492I 	2	1 15/16	49	1/4	6.4	1 1/4	32
492-AX 	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-BX 	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-CX 	2	6	152	1/4	6.4	2	51
492-CI 	2	6	152	1/4	6.4	2	51
492-CCX 	2	6	152	1/4	6.4	5 1/4	133
492-27*	2	1 15/16	49	1/4	6.4	1 1/4	32
492-A-27*	2	2 3/4	70	1/4	6.4	2	51
492-B-27*	2	3 1/2	89	1/4	6.4	2 3/4	70
492-C-27*	2	6	152	1/4	6.4	2	51
492-CC-27*	2	6	152	1/4	6.4	5 1/4	133
492-200MM	2	7 13/16	200	1/4	6.4	7	178
SD-2052-8	2	8	203	9/32	7.1	7	178
SD-2052-10	2	10	254	9/32	7.1	9	229
493X 	3	1 15/16	49	5/16	7.9	1	25
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
4930	3	1 15/16	49	1/4	6.4	1 1/4	32
4930-A	3	2 3/4	70	1/4	6.4	2	51
4930-B	3	3 1/2	89	1/4	6.4	2 3/4	70
4930-C	3	6	152	1/4	6.4	2	51
4930-CC	3	6	152	1/4	6.4	5 1/4	133
494	4	1 15/16	49	3/8	9.5	1	25









\* For shallow screw recesses see Apex Solutions on Page vii.

# Phillips Bits




## 1/4" Hex Power Drive – ACR®



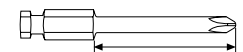
	Part Number	Point Size	Overall Length		Body Diameter		Turned Length	
			In.	mm	In.	mm	In.	mm
	491-ACR1-R	1	1 15/16	49	3/16	4.8	1 1/4	32
	491-ACR1-D	1	1 15/16	49	3/16	4.8	1 1/4	32
	491-ACR1	1	1 15/16	49	3/16	4.8	1 1/4	32
Part number suffix -R For removal (diagram) 	492-ACR2-R	2	1 15/16	49	1/4	6.4	1 1/4	32
	492-ACR2-D	2	1 15/16	49	1/4	6.4	1 1/4	32
Part number suffix -D For driving (diagram) 	492-ACR2X 	2	1 15/16	49	1/4	6.4	1 1/4	32
	492-A-ACR2-R	2	2 3/4	70	1/4	6.4	2	51
No part number suffix For both removal and driving (diagram) 	492-A-ACR2-D	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-R	2	3 1/2	89	1/4	6.4	2 3/4	70
	492-B-ACR2-D	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-D	2	6	152	1/4	6.4	2	51
	493-ACR3-R	3	1 15/16	49	5/16	7.9	1	25
	493-ACR3-D	3	1 15/16	49	5/16	7.9	1	25
	493-ACR3X 	3	1 15/16	49	5/16	7.9	1	25


## 1/4" Hex Power Drive with Finder Sleeve



Part Number	Point Size	Overall Length	Sleeve Diameter
		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 Diameter		Turned Length	
		In.	mm	In.	mm	In.	mm
482	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
484	4	3 1/2	89	3/8	9.5	2 1/4	57

ACR® is a trademark of the Phillips Screw Co.

 Refer to Page iv for description of Rapid Select. Rapid Select bit part numbers have the heat treat code noted.



## 9/32" No. 130A Yankee Drive



Part Number	Point Size	Overall Length		Body Diameter	
		In.	mm	In.	mm
451	1	3 1/4	83	3/16	4.8
452	2	3 1/4	83	9/32	7.1
453	3	3 1/4	83	5/16	7.9
454	4	3 1/4	83	3/8	9.5

## 10-32 Screw Shank Drive





Part Number	Point Size	Overall Length		Body Diameter	
		In.	mm	In.	mm
501	1	1 1/2	38	3/16	4.8
501-A	1	1 13/16	46	3/16	4.8
502X 	2	1 1/2	38	1/4	6.4
502-ACR2*	2	1 1/2	38	1/4	6.4
SD-1342-2 	2	1 3/4	45	1/4	6.4
502-A	2	1 13/16	46	1/4	6.4
503	3	1 1/2	38	5/16	7.9

\*Features ACR® anti-camout ribs. See Apex Solutions on Page vii.


## 12-24 Screw Shank Drive



Part Number	Point Size	Overall Length		Body Diameter	
		In.	mm	In.	mm
551	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
553	3	1 3/16	30	.30	7.6


## 1/4"-24 Screw Shank Drive



Part Number	Point Size	Overall Length		Body Diameter	
		In.	mm	In.	mm
401	1	1 1/2	38	3/16	4.8
402X 	2	1 1/2	38	1/4	6.4
403	3	1 1/2	38	5/16	7.9

## 8-32 Screw Shank Drive






Part Number	Point Size	Overall Length		Body Diameter	
		In.	mm	In.	mm
591	1	1 3/16	30	7/32	5.6
592X 	2	1 3/16	30	7/32	5.6
592-27*	3	1 3/16	30	7/32	5.6

\* For shallow screw recesses.

## Female Square Service Drive



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

# APEX® Solutions

## ***Does Apex offer Torx® bits?***

Torx® fasteners are becoming more and more common in automotive and appliance assembly. Apex provides a full selection of bits for Torx screws.

(See pages 19–25)

Torx® is a trademark of the Camcar Division of Textron.



## ***Is there an easy way to select 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®.



## ***What is a finder sleeve?***

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.



(See page 16)

## ***Why do Apex bits last so much longer than other bits?***

Apex's premium tool alloys and proprietary heat treat help avoid typical problems such as shattering and premature bit wear. Most Apex bits are available in three different heat treat hardnesses.

Refer to page vi for information on selecting the proper heat treat.



## ***Does Apex offer any counter displays?***



Apex Tool Crib™ feature the most popular Apex screwdriver bits and nutsetters or sockets and extensions. Tool Crib are free to Apex distributors when they purchase the following tool assortments:

- APXBIT 1 – 445 piece bits and nutsetters
- APXBIT 2 – 890 piece bits and nutsetters
- APXSKT1 – 132 piece sockets and extensions



## What's the difference between Torx® and 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.

(See pages 19-25)



Torx Plus® is a trademark of the Camcar Division of Textron. Torx Plus® Tamper Resistant Bits are available on a limited basis. Please contact your Area Distributor or Representative for more details.

## Does Apex offer 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®, Hi-Torque® and Phillips.

(See pages 43-48)



Torq-Set® and ACR® are registered trademarks of the Phillips Screw Company.

## Does Apex offer mar resistant bits and sockets?

Apex can nylon coat just about any of our bits or sockets. Nylon offers excellent mar resistance for assemblies that have painted, varnished or chromed surfaces. Nylon also offers some safety benefits by covering tool junctions. Contact your Apex distributor or representative for more information or for a quote.



## How do Torxalign® bits work?

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



(See pages 19-24)

## What's the difference between a Phillips and a Pozidriv® screw?

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



(See pages 26 & 27)

# Slotted Screw Sizes



## 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.

Screw Sizes	Diameter of Head									
	Flat Head		Round Head		Truss Head	Binding Head	Fillister Cap		Pan Head	Width of slot
	Wood	Mach.	Wood	Mach.			Cap	Mach.		
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



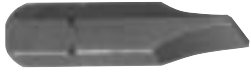
Part Number	Screw Size	Length		Blade Thickness		Blade Width	
		In.	mm	In.	mm	In.	mm
445-000	1F-2R	1	25	.021	.53	.125	3.2
445-00	2F-3R	1	25	.025	.64	.140	3.6
445-0X 	3F-4R	1	25	.030	.76	.154	3.9
445-10X 	4F-5R	1	25	.034	.86	.185	4.7
445-20	5F-6R	1	25	.036	.91	.216	5.5
445-30	6F-7R	1	25	.038	.97	.248	6.3
445-00-15	2F-3R	1 1/2	38	.028	.71	.138	3.5
445-0-15	3F-4R	1 1/2	38	.032	.81	.154	3.9
445-10-15	4F-5R	1 1/2	38	.034	.86	.185	4.7
445-20-15	5F-6R	1 1/2	38	.036	.91	.216	5.5
445-30-15	6F-7R	1 1/2	38	.038	.97	.248	6.3


## 1/4" Hex Insert Bits



Part Number	Screw Size	Length		Blade Thickness		Blade Width	
		In.	mm	In.	mm	In.	mm
445-1X 	4F-5R	1	25	.034	.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
445-1-15	4F-5R	1 1/2	38	.034	.86	3/16	4.8
445-2-15	6F-8R	1 1/2	38	.040	1.02	7/32	5.6
445-3-15	8F-10R	1 1/2	38	.042	1.07	1/4	6.4
445-4-15	10F-12R	1 1/2	38	.046	1.17	9/32	7.1
445-5X 	12F-14R	1 1/2	38	.050	1.27	5/16	7.9
445-6	14F-16R	1 1/2	38	.055	1.40	23/64	9.1


## 5/16" Hex Insert Bits



Part Number	Screw Size	Length		Blade Thickness		Blade Width	
		In.	mm	In.	mm	In.	mm
485-1	4F-5R	1 1/2	38	.034	.86	3/16	4.8
485-2	6F-8R	1 1/2	38	.040	1.02	7/32	5.6
485-3	8F-10R	1 1/2	38	.042	1.07	1/4	6.4
485-4	10F-12R	1 1/2	38	.046	1.17	.296	7.52
485-5	12F-14R	1 1/2	38	.050	1.27	.328	8.33
485-6	14F-16R	1 1/2	38	.055	1.40	.328	8.33
485-7X 	16F-18R	1 3/4	45	.060	1.52	1/2	12.7

## 1/4" Hex Power Drive



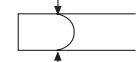
Part Number	Screw Size	Length		Blade Thickness		Blade Width/ Body Diameter	
		In.	mm	In.	mm	In.	mm
320-000	1F-2R	1 15/16	49	.022	.56	.122	3.10
326-000	1F-2R	2 3/4	70	.022	.56	.122	3.10
323-000	1F-2R	3	76	.022	.56	.122	3.10
327-000	1F-2R	3 1/2	89	.022	.56	.122	3.10
324-000	1F-2R	4	102	.022	.56	.122	3.10
325-000	1F-2R	5	127	.022	.56	.122	3.10
328-000	1F-2R	6	152	.022	.56	.122	3.10
320-00	2F-3R	1 15/16	49	.026	.66	.134	3.40
326-00	2F-3R	2 3/4	70	.026	.66	.134	3.40
323-00	2F-3R	3	76	.026	.66	.134	3.40
327-00	2F-3R	3 1/2	89	.026	.66	.134	3.40
324-00	2F-3R	4	102	.026	.66	.134	3.40
325-00	2F-3R	5	127	.026	.66	.134	3.40
328-00	2F-3R	6	152	.026	.66	.134	3.40
320-0	3F-4R	1 15/16	49	.030	.76	.151	3.84
326-0	3F-4R	2 3/4	70	.030	.76	.151	3.84
323-0	3F-4R	3	76	.030	.76	.151	3.84
327-0	3F-4R	3 1/2	89	.030	.76	.151	3.84
324-0	3F-4R	4	102	.030	.76	.151	3.84
325-0	3F-4R	5	127	.030	.76	.151	3.84
328-0	3F-4R	6	152	.030	.76	.151	3.84
320-1X 	4F-5R	1 15/16	49	.034	.86	.187	4.75
326-1	4F-5R	2 3/4	70	.034	.86	.187	4.75
323-1	4F-5R	3	76	.034	.86	.187	4.75
327-1	4F-5R	3 1/2	89	.034	.86	.187	4.75
324-1	4F-5R	4	102	.034	.86	.187	4.75
325-1	4F-5R	5	127	.034	.86	.187	4.75





(continued on next page)

# Slotted Bits



## 1/4" Hex Power Drive (continued)



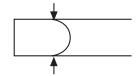
Part Number	Screw Size	Length		Blade Thickness		Blade Width/ Body Diameter	
		In.	mm	In.	mm	In.	mm
328-1	4F-5R	6	152	.034	.86	.187	4.75
320-20	5F-6R	1 15/16	49	.036	.91	.215	5.46
326-20	5F-6R	2 3/4	70	.036	.91	.215	5.46
323-20	5F-6R	3	76	.036	.91	.215	5.46
327-20	5F-6R	3 1/2	89	.036	.91	.215	5.46
324-20	5F-6R	4	102	.036	.91	.215	5.46
325-20	5F-6R	5	127	.036	.91	.215	5.46
328-20	5F-6R	6	152	.036	.91	.215	5.46
320-2X 	5F-6R	1 15/16	49	.036	.91	.250	6.35
326-2	5F-6R	2 3/4	70	.036	.91	.250	6.35
323-2	5F-6R	3	76	.036	.91	.250	6.35
327-2	5F-6R	3 1/2	89	.036	.91	.250	6.35
324-2	5F-6R	4	102	.036	.91	.250	6.35
325-2	5F-6R	5	127	.036	.91	.250	6.35
328-2	5F-6R	6	152	.036	.91	.250	6.35
320-3X 	6F-8R	1 15/16	49	.038	.97	.250	6.35
326-3	6F-8R	2 3/4	70	.038	.97	.250	6.35
323-3	6F-8R	3	76	.038	.97	.250	6.35
327-3	6F-8R	3 1/2	89	.038	.97	.250	6.35
324-3	6F-8R	4	102	.038	.97	.250	6.35
325-3	6F-8R	5	127	.038	.97	.250	6.35
328-3	6F-8R	6	152	.038	.97	.250	6.35
320-4X 	8F-10R	1 15/16	49	.042	1.07	.275	6.99
326-4	8F-10R	2 3/4	70	.042	1.07	.275	6.99
323-4	8F-10R	3	76	.042	1.07	.275	6.99
327-4	8F-10R	3 1/2	89	.042	1.07	.275	6.99
324-4	8F-10R	4	102	.042	1.07	.275	6.99
325-4	8F-10R	5	127	.042	1.07	.275	6.99
328-4	8F-10R	6	152	.042	1.07	.275	6.99
320-5X 	10F-12R	1 15/16	49	.046	1.17	.312	7.92
326-5	10F-12R	2 3/4	70	.046	1.17	.312	7.92
323-5	10F-12R	3	76	.046	1.17	.312	7.92
327-5	10F-12R	3 1/2	89	.046	1.17	.312	7.92
324-5	10F-12R	4	102	.046	1.17	.312	7.92
325-5	10F-12R	5	127	.046	1.17	.312	7.92
328-5	10F-12R	6	152	.046	1.17	.312	7.92
320-6	12F-14R	1 15/16	49	.050	1.27	.360	9.14
326-6	12F-14R	2 3/4	70	.050	1.27	.360	9.14
323-6	12F-14R	3	76	.050	1.27	.360	9.14
327-6	12F-14R	3 1/2	89	.050	1.27	.360	9.14
324-6	12F-14R	4	102	.050	1.27	.360	9.14
325-6	12F-14R	5	127	.050	1.27	.360	9.14
328-6	12F-14R	6	152	.050	1.27	.360	9.14

 Refer to Page iv for description of Rapid Select. Rapid Select bit part numbers have the heat treat code noted.

# Slotted Bits

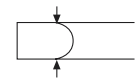


## 5/16" Hex Power Drive



Part Number	Screw Size	Length		Blade Thickness		Blade Width/ Body Diameter	
		In.	mm	In.	mm	In.	mm
635-3	5F-6R	2 1/4	57	.036	.91	.250	6.35
635-4	6F-8R	2 1/4	57	.038	.97	.275	6.99
635-5	8F-10R	2 1/4	57	.042	1.07	.312	7.92
635-6	10F-12R	2 1/4	57	.046	1.17	.360	9.14
635-7	12F-14R	2 1/4	57	.050	1.27	.395	10.03
635-8	14F-16R	2 1/4	57	.055	1.40	.457	11.61
635-9	16F-20R	2 1/4	57	.060	1.52	.503	12.78
635-10	20F-22R	2 1/4	57	.062	1.57	.545	13.84

## 10-32 Screw Shank Drive

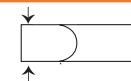


Part Number	Screw Size	Length		Blade Thickness		Blade Width/ Body Diameter	
		In.	mm	In.	mm	In.	mm
103-000	1F-2R	1 1/2	38	.022	.56	.125	3.18
103-00	2F-3R	1 1/2	38	.026	.66	.140	3.56
103-0	3F-4R	1 1/2	38	.030	.76	.156	3.96
103-1	4F-5R	1 1/2	38	.034	.86	.187	4.75
103-2	5F-6R	1 1/2	38	.036	.91	.225	5.72
103-3	6F-7R	1 1/2	38	.038	.97	.250	6.35
103-4	7F-8R	1 1/2	38	.040	1.02	.275	7.24
103-5	8F-10R	1 1/2	38	.042	1.07	.296	7.52
103-6	10F-12R	1 1/2	38	.046	1.17	.309	7.85

# Slotted Bits

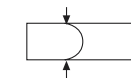


## 12-24 Screw Shank Drive



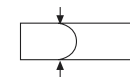
Part Number	Screw Size	Length		Blade Thickness		Blade Width	
		In.	mm	In.	mm	In.	mm
260-1	2F-3R	1 3/16	30	.026	.66	.171	4.3
260-2	3F-4R	1 3/16	30	.030	.76	.191	4.7
260-3	4F-5R	1 3/16	30	.034	.86	.212	5.4
260-4	5F-6R	1 3/16	30	.036	.91	.238	6.0
260-5	6F-7R	1 3/16	30	.038	.97	.261	6.6
260-7	8F-10R	1 3/16	30	.042	1.07	.309	7.8
260-8	10F-12R	1 3/16	30	.046	1.17	.309	7.8
260-9	12F-14R	1 3/16	30	.050	1.27	.309	7.8

## 1/4"-24 Screw Shank Drive



Part Number	Screw Size	Length		Blade Thickness		Blade Width/ Body Diameter	
		In.	mm	In.	mm	In.	mm
309-000	1F-2R	1 1/2	38	.022	.56	.125	3.18
309-00	2F-3R	1 1/2	38	.026	.66	.140	3.56
309-0	3F-4R	1 1/2	38	.030	.76	.156	3.96
309-1	4F-5R	1 1/2	38	.034	.86	.187	4.75
309-2	5F-6R	1 1/2	38	.036	.91	.225	5.72
309-3	6F-7R	1 1/2	38	.038	.97	.250	6.35
309-4	7F-8R	1 1/2	38	.040	1.02	.285	7.24
309-5	8F-10R	1 1/2	38	.042	1.07	.296	7.52
309-6	10F-12R	1 1/2	38	.046	1.17	.315	8.00
309-7	12F-14R	1 1/2	38	.050	1.27	.361	9.17
309-8	14F-16R	1 1/2	38	.055	1.40	.361	9.17

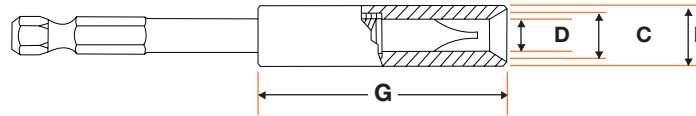
## 9/32" No. 130A Yankee Drive









Part Number	Screw Size	Length		Blade Thickness		Blade Width/ Body Diameter	
		In.	mm	In.	mm	In.	mm
130-3	3F-4R	3 1/4	83	.030	.76	.156	3.96
130-4	4F-5R	3 1/4	83	.034	.86	.187	4.75
130-5	5F-6R	3 1/4	83	.036	.91	.225	5.72
130-6	6F-7R	3 1/4	83	.038	.97	.250	6.35
130-7	7F-8R	3 1/4	83	.040	1.02	.285	7.24
130-8	8F-10R	3 1/4	83	.042	1.07	.315	8.00

## 1/4" Power Drive 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 No.	Screw Size	C		D		Sleeve Length G		Sleeve Diameter E	
		Largest ID In.	mm	Smallest ID In.	mm	In.	mm	In.	mm
NOL*	4F-5R	.260	6.60	.203	5.15	1 7/8	47.6	3/8	9.5
L 	5F-6R	.300	7.62	.203	5.15	1 7/8	47.6	3/8	9.5
M 	6F-6R	.393	9.98	.253	6.42	1 7/8	47.6	7/16	11.1
P 	8F-6R	.440	11.18	.300	7.62	1 7/8	47.6	1/2	12.7
NP*	8F-10R	.440	11.18	.300	7.62	1 7/8	47.6	7/16	11.1
R 	10F-12R	.505	12.83	.360	9.14	2	50.8	9/16	14.3
S 	12F-14R	.550	13.97	.405	10.28	2	50.8	5/8	15.9
T 	14F-16R	.615	15.62	.470	11.94	2 1/8	54.0	11/16	17.5
U	16F-20R	.660	16.76	.515	13.08	2 1/8	54.0	3/4	19.1
W	20F-22R	.710	18.03	.565	14.35	2 1/16	52.4	13/16	20.3
Y	24F-24R	.860	21.84	.610	15.49	2 1/32	51.6	15/16	23.8

\*Sleeves NOL and NP are cup type sleeves.



# Slotted Power Bits with Finder Sleeves



## 1/4" Hex Power Drive



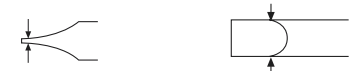
Part No. Complete Assembly	Part No. Bit Only	Screw Size	Bit Length		Blade Thickness		Bit Body Diameter	
			In.	mm	In.	mm	In.	mm
NOL-320	320-LX	4F-5R	3 3/4	95	.036	.91	.193	4.90
L-320X	320-LX	5F-6R	3 3/4	95	.036	.91	.193	4.90
M-320X	320-MX	6F-8R	3 3/4	95	.038	.97	.241	6.12
P-320X	320-PX	8F-10R	3 3/4	95	.042	1.07	.290	7.37
R-320X	320-RX	10F-12R	3 3/4	95	.046	1.17	.350	8.89
S-320	320-S	12F-14R	3 7/8	98	.050	1.27	.395	10.03
T-320X	320-TX	14F-16R	4 1/8	105	.055	1.40	.457	11.61

## 1/4" Hex Power Drive – Extra Short Series



Part No. Complete Assembly	Part No. Bit Only	Screw Size	Bit Length		Blade Thickness		Bit Body Diameter	
			In.	mm	In.	mm	In.	mm
OOOL-322	322-000L	2F-3R	2 3/32	53	.026	.66	.138	3.91
OOL-322	322-00L	3F-4R	2 3/32	53	.030	.76	.154	3.91
OL-322	322-0L	4F-5R	2 5/32	55	.034	.86	.185	4.70
L-322	322-L	5F-6R	2 5/32	55	.036	.91	.185	4.70
M-322	322-M	6F-8R	2 5/32	55	.040	1.02	.248	6.30
P-322	322-P	8F-10R	2 5/32	55	.042	1.07	.283	7.19
R-322	322-R	10F-12R	2 5/32	55	.046	1.17	.283	7.19

## 1/4" Hex Power Drive – Long Series

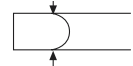


Part No. Complete Assembly	Part No. Bit Only	Screw Size	Bit Length		Blade Thickness		Bit Body Diameter	
			In.	mm	In.	mm	In.	mm
L-328	328-L	5F-6R	6 1/2	165	.036	.91	.193	4.90
M-328	328-M	6F-8R	6 1/2	165	.038	.97	.241	6.12
P-328	328-P	8F-10R	6 1/2	165	.046	1.07	.290	7.37
R-328	328-R	10F-12R	6 1/2	165	.046	1.17	.350	8.89
S-328	328-S	12F-14R	6 1/2	165	.050	1.27	.395	10.03
T-328	328-T	14F-16R	6 1/2	165	.055	1.40	.457	11.61

# Slotted Bits



## 7/16" Hex Power Drive with Finder Sleeves























Part Number	Screw Size	Bit Length		Blade Thickness		Bit Body Diameter	
		In.	mm	In.	mm	In.	mm
M-321	6F-8R	3 3/4	95	.038	.97	.241	6.12
P-321	8F-10R	3 3/4	95	.046	1.07	.290	7.37
R-321	10F-12R	3 7/8	98	.046	1.17	.350	8.89
S-321	12F-14R	3 7/8	98	.050	1.27	.395	10.03
T-321	14F-16R	4 1/8	105	.055	1.40	.457	11.61
U-321	16F-20R	4 1/8	105	.060	1.52	.503	12.78
W-321	20F-22R	4 1/8	105	.062	1.57	.545	13.84
Y-321	24F-24R	4 1/8	105	.065	1.65	.595	15.11

See chart on page 14 for sleeve diameters.

**1/4" Hex Insert Bits**










Part Number	Torxalign® Part Number	Driver Size	A (Ref.)		Overall Length In.	Overall Length 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-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.

**1/4" Hex Insert Bits – Tamper Resistant\*\*** 









Part Number	Driver Size	A (Ref.)		Overall Length In.	Overall Length 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 Torx® screws feature a post in the center of the recess—this post will only fit into a tamper resistant Torx® bit. Tamper resistant Torx® bits are available on a restricted distribution basis. Contact your local Apex representative for details.


## 5/16" Hex Insert Bits



Part Number	Driver Size	A (Ref.)		Overall Length	
				In.	mm
480-TX-20	T-20	.151		1 1/4	32
480-TX-25	T-25	.173		1 1/4	32
480-TX-27	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-40-4	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 (Ref.)		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

\*\*Tamper resistant Torx® bits are available on a restricted distribution basis. Contact your local Apex representative for details.

## 5/8" Hex Insert Bits




Part Number	Hex Flat Type*	Driver Size	A (Ref.)		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 on page 55.

## 7/8" Hex Insert Bits
































Part Number	Hex Flat Type*	Driver Size	A (Ref.)		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 on page 55.

**1/4" Hex Power Drive**





Part Number	Driver Size	A (Ref.)		Body Diameter		Overall Length	
				In.	mm	In.	mm
49-TX-05	T-5	.055		.119	3.0	1 15/16	49
49-A-TX-05	T-5	.055		.119	3.0	2 3/4	70
49-B-TX-05	T-5	.055		.119	3.0	3 1/2	89
49-TX-06 	T-6	.065		.119	3.0	1 15/16	49
49-A-TX-06	T-6	.065		.119	3.0	2 3/4	70
49-TX-07 	T-7	.077		.119	3.0	1 15/16	49
49-A-TX-07	T-7	.077		.119	3.0	2 3/4	70
49-B-TX-07	T-7	.077		.119	3.0	3 1/2	89
49-C-TX-07	T-7	.077		.119	3.0	6	152
49-TX-08 	T-8	.090		.119	3.0	1 15/16	49
49-A-TX-08 	T-8	.090		.119	3.0	2 3/4	70
49-B-TX-08 	T-8	.090		.119	3.0	3 1/2	89
49-C-TX-08 	T-8	.090		.119	3.0	6	152
49-TX-09	T-9	.097		.119	3.0	1 15/16	49
49-A-TX-09	T-9	.097		.119	3.0	2 3/4	70
49-B-TX-09	T-9	.097		.119	3.0	3 1/2	89
49-C-TX-09	T-9	.097		.119	3.0	6	152
49-TX-10 	T-10	.107		.150	3.8	1 15/16	49
49-A-TX-10 	T-10	.107		.150	3.8	2 3/4	70
SD-4693	T-10	.107		.150	3.8	3	75
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	1 15/16	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-20 	T-20	.151		.171	4.3	1 15/16	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	1 15/16	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	1 15/16	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	6.0	1 15/16	49
49-A-TX-30 	T-30	.216		.236	6.0	2 3/4	70
49-B-TX-30 	T-30	.216		.236	6.0	3 1/2	89
49-C-TX-30 	T-30	.216		.236	6.0	6	152
49-TX-40 	T-40	.260		.309	7.8	1 15/16	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

 Refer to Page iv for description of Rapid Select.


**1/4" Hex Power Drive – Torxalign®**



Part Number	Driver Size	A (Ref.)		Body Diameter		Overall Length	
				In.	mm	In.	mm
49-TX-08-W	T-8	.090		.119	3.0	1 15/16	49
49-TX-09-W	T-9	.097		.119	3.0	1 15/16	49
49-TX-10-W	T-10	.107		.150	3.8	1 15/16	49
49-TX-15-W	T-15	.128		.150	3.8	1 15/16	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	1 15/16	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	1 15/16	49
49-TX-27-W	T-27	.195		.215	5.5	1 15/16	49
49-TX-30-W	T-30	.216		.236	6.0	1 15/16	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 (Ref.)		Body Diameter		Overall Length	
				In.	mm	In.	mm
49-TX-10-H	T-10-H	.107		.150	3.8	1 15/16	49
49-A-TX-10-H	T-10-H	.107		.150	3.8	2 3/4	70
49-TX-15-H	T-15-H	.128		.150	3.8	1 15/16	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-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

\*\*Tamper resistant Torx® bits are available on a restricted distribution basis. Contact your local Apex representative for details.

**1/4" Hex Power Drive with Finder Sleeves**





Part Number	Driver Size	Sleeve Number*	A (Ref.)		Sleeve Diameter		Overall Length	
					In.	mm	In.	mm
M-32-TX-15	T-15	M	.128		.437	12.1	3 1/2	89
M-32-TX-20	T-20	M	.151		.437	12.1	3 1/2	89
NP-32-TX-25	T-25	NP	.173		.437	12.1	3 3/4	95
R-32-TX-27	T-27	R	.195		.563	14.3	3 5/8	92
S-32-TX-30	T-30	S	.216		.625	15.9	3 7/8	98


\*See page 14 for Sleeve Selection

**7/16" Hex Power Drive**




Part Number	Driver Size	A (Ref.)		Body Diameter		Overall Length	
				In.	mm	In.	mm
48-TX-40	T-40	.260		.277	7.0	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-TX-55	T-55	.440		.503	12.8	3 3/4	95

Torx® and Torxalign® are registered trademarks of the Camcar Division of Textron.

 Refer to Page iv for description of Rapid Select.



### 10-32 Screw Shank Drive



Part Number	Driver Size	A (Ref.)		Body Diameter		Overall Length	
				In.	mm	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



### 12-24 Screw Shank Drive



Part Number	Driver Size	A (Ref.)		Body Diameter		Overall Length	
				In.	mm	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	A (Ref.)		Square Drive	Body Diameter		Overall Length	
					In.	mm	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-TX50-1.62	T-50	.346		3/8	.373	9.4	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
854-TX-50 	T-50	.346		1/2	.323	8.2	2 7/8	73
854-TX-55-150M	T-55	.440		1/2	.363	9.2	5 7/8	150

**1" Square Drive Adapters with Torx® Insert Bit**



Part Number	Driver Size	A (Ref.)		Overall Length		Bit Length (B)	
				In.	mm	In.	mm
SZ-8L-TX-70	T-70	.610		3 19/32	91	.90	23
SZ-TX-100	T-100	.870		3 19/32	91	1.13	29





## 1/4" Hex Insert Bits



Part Number	Driver Size	A (Ref.)		Overall Length	
				In.	mm
440-10IP	10IP	.107		1	25
440-15IP	15IP	.128		1	25
440-20IP	20IP	.151		1	25
440-25IP	25IP	.173		1	25
440-27IP	27IP	.195		1	25
440-30IP	30IP	.216		1	25
440-40IP	40IP	.260		1	25

## 1/4" Hex Power Drive




Part Number	Driver Size	A (Ref.)		Overall Length	
				In.	mm
49-10IP	10IP	.107		1 15/16	49
49-A-10IP	10IP	.107		2 3/4	70
49-B-10IP	10IP	.107		3 1/2	89
49-15IP	15IP	.128		1 15/16	49
49-A-15IP	15IP	.128		2 3/4	70
49-B-15IP	15IP	.128		3 1/2	89
49-20IP	20IP	.151		1 15/16	49
49-A-20IP	20IP	.151		2 3/4	70
49-B-20IP	20IP	.151		3 1/2	89
49-25IP	25IP	.173		1 15/16	49
49-A-25IP	25IP	.173		2 3/4	70
49-B-25IP	25IP	.173		3 1/2	89
49-27IP	27IP	.195		1 15/16	49
49-A-27IP	27IP	.195		2 3/4	70
49-B-27IP	27IP	.195		3 1/2	89
49-30IP	30IP	.216		1 15/16	49
49-A-30IP	30IP	.216		2 3/4	70
49-B-30IP	30IP	.216		3 1/2	89
49-40IP	40IP	.260		1 15/16	49
49-A-40IP	40IP	.260		2 3/4	70
49-B-40IP	40IP	.260		3 1/2	89

Torx Plus® is a trademark of the Camcar Division of Textron.

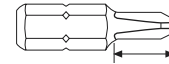
Torx Plus® Tamper Resistant Bits are available on a limited basis. Please contact your Area Distributor or Representative for more details.


## 1/4" Hex Insert Bits



Part Number	Point Size	Overall Length	
		In.	mm
440-1-PZD	1	1	25
440-125-PZD	1	2 1/2	64
440-2-PZDX 	2	1	25
440-215-PZD	2	1 1/2	38
440-22-PZD	2	2	51
440-225-PZD	2	2 1/2	64
440-3-PZD	3	1	25
440-4-PZD	4	1 1/4	32

## 1/4" Hex Insert Bits – Limited Clearance



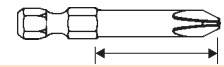
Part Number	Point Size	Overall Length		Turned Length	
		In.	mm	In.	mm
446-1-PZD	1	1	25.4	7/16	11
446-2-PZDX 	2	1	25.4	7/16	11
446-22-PZD	2	2	50.8	7/16	11




## 5/16" Hex Insert Bits



Part Number	Point Size	Overall Length		
		In.	mm	
480-1-PZD	1	1 1/4	32	
480-2-PZD	2	1 1/4	32	
480-3-PZD	3	1 1/4	32	
480-4-PZD	4	1 1/4	32	
480-4BN-PZD	4	1 1/2	38	Large body

## 1/4" Hex Power Drive



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

## 1/4"-24 Screw Shank Drive



Part Number	Point Size	Overall Length		Body Diameter	
		In.	mm	In.	mm
401-PZD	1	1 1/2	38	3/16	4.8
402-PZD	2	1 1/2	38	1/4	6.4
403-PZD	3	1 1/2	38	5/16	7.9

## 8-32 Screw Shank Drive



Part Number	Point Size	Overall Length		Body Diameter	
		In.	mm	In.	mm
591-PZD	1	1 3/16	30	7/32	5.6
592-PZD	2	1 3/16	30	7/32	5.6

## 10-32 Screw Shank Drive



Part Number	Point Size	Overall Length		Body Diameter	
		In.	mm	In.	mm
502-PZD	2	1 1/2	38	1/4	6.4
SD-1342-2-PZD	2	1 3/4	45	1/4	6.4



A series of horizontal lines for writing, spanning the width of the page. There are 28 lines in total, starting from the top margin and ending near the bottom margin.

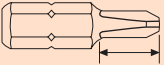
## 1/4" Hex Insert Bits



Part Number	Point Size	Overall Length	
		In.	mm
440-1-SF	1	1	25
440-2-SF	2	1	25
440-215-SF	2	1 1/2	38
440-22-SF	2	2	51
440-225-SF	2	2 1/2	64
440-3-SF	3	1	25
440-4-SF	4	1 1/4	32

## 1/4" Hex Insert Bits – Limited Clearance



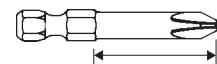
Part Number	Point Size	Overall Length		Turned Length		
		In.	mm	In.	mm	
446-1-SF	1	1	25	7/16	11	
446-2-SF	2	1	25	7/16	11	

## 5/16" Hex Insert Bits



Part Number	Point Size	Overall Length		
		In.	mm	
480-2-SF	2	1 1/4	32	
480-3-SF	3	1 1/4	32	
480-4-SF	4	1 1/4	32	
480-4BN-SF	4	1 1/2	38	Large body

## 1/4" Hex Power Drive



Part Number	Point Size	Overall Length		Body Diameter		Turned Length	
		In.	mm	In.	mm	In.	mm
491-SF	1	1 15/16	49	3/16	5	1 1/4	32
491-A-SF	1	2 3/4	70	3/16	5	2	51
491-B-SF	1	3 1/2	89	3/16	5	2 3/4	70
491-C-SF	1	6	152	3/16	5	2	51
492-SF	2	1 15/16	49	1/4	6	1 1/4	32
492-A-SF	2	2 3/4	70	1/4	6	2	51
492-B-SF	2	3 1/2	89	1/4	6	2 3/4	70
492-C-SF	2	6	152	1/4	6	2	51
493-SF	3	1 15/16	49	5/16	8	1	25
493-A-SF	3	2 3/4	70	5/16	8	1 3/4	44
493-B-SF	3	3 1/2	89	5/16	8	2 1/2	64
493-C-SF	3	6	152	5/16	8	5	127

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. Sel-O-Fit® is a registered trademark of Cooper Industries.

## 1/4" Hex Insert Bits



Part Number	Point Size	Overall Length		
		In.	mm	
440-F	All	1	25	
446-F	All	1	25	For limited clearance

## 5/16" Hex Insert Bit



Part Number	Point Size	Overall Length	
		In.	mm
480-F	All	1 3/8	35

## 1/4" Hex Power Drive



Part Number	Screw Size	Overall Length		Body Diameter		Turned Length	
		In.	mm	In.	mm	In.	mm
491-F	All	1 15/16	49	3/16	5	1 1/4	32
491-AF	All	2 3/4	70	3/16	5	2	51
491-BF	All	3 1/2	89	3/16	5	2 3/4	70
491-CF	All	6	152	3/16	5	2	51
492-F	All	1 15/16	49	1/4	6	1 1/4	32
492-AF	All	2 3/4	70	1/4	6	2	51
492-BF	All	3 1/2	89	1/4	6	2 3/4	70
492-CF	All	6	152	1/4	6	2	51
493-F	All	1 15/16	49	5/16	8	1	25
493-AF	All	2 3/4	70	5/16	8	1 3/4	44
493-BF	All	3 1/2	89	5/16	8	2 1/2	64
493-CF	All	6	152	5/16	8	5	127

The Frearson recess is designed so that any size bit will fit any size recess.  
Choose bits on the basis of body diameter – the larger the screw, the larger the body diameter.

# Frearson Bits

## 12-24 Screw Shank Drive



Part Number	Screw Size	Overall Length		Body Diameter	
		In.	mm	In.	mm
552-F	All	1 3/16	30	.30	8

## 1/4" Female Square Drive



Part Number	Screw Size	Overall Length		Body Diameter	
		In.	mm	In.	mm
822-F	All	2	51	1/4	6

## 3/8" Female Square Drive



Part Number	Screw Size	Overall Length		Body Diameter	
		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

# B.N.A.E. Bits

## 1/4" Hex Insert Bits



Part Number	Point Size	Overall Length	
		In.	mm
BNAE-3mm	3mm	1 1/8	29
BNAE-4mm	4mm	1 1/8	29
BNAE-5mm	5mm	1 1/8	29
BNAE-6mm	6mm	1 1/8	29
BNAE-8mm	8mm	1 1/8	29

## 1/4" Hex Insert Bits – ACR®



Part Number	Point Size	Overall Length	
		In.	mm
BNAE-4mm-ACR	4mm	1 1/8	29
BNAE-5mm-ACR	5mm	1 1/8	29
BNAE-6mm-ACR	6mm	1 1/8	29



ACR® ribs for both removal and driving

# Socket Head Sizing Chart



## SAE



Nominal Hex Size, Inches	Socket Head Cap Screws 1960 Series	Flat Head 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	1/16	6	5/16
3/16	1/4	—	5/16	5/16	3/8	3/8	1/8	8, 10	3/8
7/32	—	5/16	3/8	3/8	7/16	—	—	—	7/16
1/4	5/16	—	7/16	—	1/2	1/2	1/4	1/4	1/2
5/16	3/8	3/8, 7/16	1/2	—	5/8	5/8	3/8	5/16	5/8
3/8	7/16, 1/2	1/2	5/8	—	3/4	3/4	1/2	3/8	—
7/16	—	—	—	—	—	—	—	7/16	—
1/2	5/8	5/8	3/4	—	7/8	1	—	1/2	—
9/16	—	3/4, 7/8	7/8	—	1, 1 1/8	—	3/4	—	—
5/8	3/4	1	1	—	1 1/4, 1 3/8	1 1/4	1	5/8	—
3/4	7/8, 1	1 1/8, 1 1/4, 1 3/8	1 1/8	—	1 1/2	—	1 1/4	3/4	—
7/8	1 1/8, 1 1/4	—	1 1/4, 1 3/8	—	—	1 1/2	—	7/8	—
1	1 3/8, 1 1/2	1 1/2	1 1/2	—	1 3/4, 2	1 3/4	1 1/2, 2	1	—
1 1/4	1 3/4	—	—	—	—	2	—	1 1/4	—
1 1/2	2	—	—	—	—	—	—	1 1/2	—
1 3/4	2 1/4, 2 1/2	—	—	—	—	—	—	—	1 3/4
2	2 3/4	—	—	—	—	—	—	—	—

## Metric



Nominal hex Size, MM	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





## 1/4" Hex Insert Bits



Part Number	Hex Size	Overall Length	
		In.	mm
185-000X	.050	1	25
185-00	1/16	1	25
185-0	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	1 5/16	33
185-4X	3/16	1 5/16	33
185-4-4	3/16	4	102
185-5	7/32	1 5/16	33
185-6	1/4	1 5/16	33
185-7	5/16	1 1/4	32
185-8	3/8	1 1/4	32

## 1/4" Hex Insert Bits – Metric



Part Number	Hex Size	Overall Length	
		In.	mm
185-1.5mm	1.5mm	1	25
185-2mm	2mm	1	25
185-2.5mm	2.5mm	1	25
185-3mm	3mm	1	25
185-4mm	4mm	1 5/16	33
185-5mm	5mm	1 5/16	33
185-6mm	6mm	1 5/16	33
185-7mm	7mm	1 1/4	32
185-8mm	8mm	1 1/4	32
185-9mm	9mm	1 1/4	32
185-10mm	10mm	1 1/4	32

## 5/16" Hex Insert Bits



Part Number	Hex Size	Overall Length	
		In.	mm
315-3	5/32	1 5/16	33
315-4	3/16	1 5/16	33
315-5	7/32	1 5/16	33
315-6	1/4	1 5/16	33
315-7	5/16	1 5/16	33
315-8	3/8	1 5/16	33

# Socket Head Bits













## 5/16" Hex Insert Bits – Metric



Part Number	Hex Size	Overall Length	
		In.	mm
315-2.5mm	2.5mm	1	25
315-3mm	3mm	1	25
315-4mm	4mm	1 5/16	33
315-5mm	5mm	1 5/16	33
315-6mm	6mm	1 5/16	33
315-7mm	7mm	1 5/16	33
315-8mm	8mm	1 5/16	33
315-9mm	9mm	1 5/16	33
315-10mm	10mm	1 3/8	35
315-12mm	12mm	1 1/4	32
315-14mm	14mm	1 1/4	32

## 1/4" Hex Power Drive









Part Number	Hex Size	Overall Length	
		In.	mm
AM-02 	1/16	1 15/16	49
AM-02-A 	5/64	1 15/16	49
AM-03 	3/32	1 15/16	49
AM-03-3	3/32	3	76
AM-03-6	3/32	6	152
AM-03-A 	7/64	1 15/16	49
AM-04 	1/8	1 15/16	49
AM-04-3	1/8	3	76
AM-04-35	1/8	3 1/2	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	1 15/16	49
AM-04-A-4	9/64	4	102
AM-05 	5/32	1 15/16	49
AM-05-3	5/32	3	76
AM-05-35	5/32	3 1/2	89
AM-05-4 	5/32	4	102
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	1 15/16	49
AM-06-3	3/16	3	76
AM-06-4	3/16	4	102
AM-06-6 	3/16	6	152
AM-07	7/32	1 15/16	49
AM-08	1/4	1 15/16	49
AM-10	5/16	1 15/16	49

# Socket Head Bits



## 1/4" Hex Power Drive – Metric



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

## 5/16" Hex Power Drive








Part Number	Hex Size	Overall Length	
		In.	mm
AS-04	1/8	3	76
AS-05	5/32	3	76
AS-06	3/16	3	76
AS-07	7/32	3	76
AS-08	1/4	3	76
AS-10	5/16	3	76
AS-12	3/8	3	76

# Socket Head Bits



## 7/16" Hex Power Drive



Part Number	Hex Size	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	Overall Length	
		In.	mm
AN-3mm	3mm	3 1/2	89
AN-4mm	4mm	3 1/2	89
AN-5mm	5mm	3 1/2	89
AN-6mm	6mm	3 1/2	89
AN-8mm	8mm	3 1/2	89
AN-10mm	10mm	3 1/2	89
AN-12mm	12mm	3 1/2	89
AN-14mm	14mm	3 1/2	89
AN-14mm-6	14mm	6	152

# Socket Head Bits



## 5/8" Hex Power Drive



Part Number	Hex Size	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



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

# Socket Head Bits with Square Drive Adapters, SAE



## 1/2" Square Drive



Complete	Part Number		Hex Size	Overall Length		Length of Insert	
	Adapter Only	Insert Only		In.	mm	In.	mm
SZ-40	SC-514	SZ-10-A	1/8	2 1/2	64	1 3/8	35
SZ-41	SC-514	SZ-11-A	5/32	2 1/2	64	1 3/8	35
SZ-20	SC-514	SZ-12-A	3/16	2 1/2	64	1 3/8	35
SZ-21	SC-514	SZ-13-A	7/32	2 1/2	64	1 3/8	35
SZ-22	SC-514	SZ-14-A	1/4	2 1/2	64	1 3/8	35
SZ-23	SC-514	SZ-15-A	5/16	2 1/2	64	1 3/8	35
SZ-24	SC-514	SZ-16-A	3/8	2 1/2	64	1 3/8	35
SZ-25	SC-514	SZ-17-A	1/2	2 1/2	64	1 3/8	35
SZ-42	SC-520	SZ-31-A	1/2	2 3/8	60.3	1 9/16	40
SZ-43	SC-514	SZ-18-A	9/16	2 9/16	65	1 3/8	35
SZ-44	SC-520	SZ-32-A	9/16	2 3/8	60.3	1 9/16	40
SZ-26	SC-514	SZ-19-A	5/8	2 9/16	65	1 3/8	35
SZ-27	RP-520	SZ-33-A	5/8	2 3/8	60.3	1 9/16	40

Adapters with an "SC" prefix feature a set screw for locking in the bit. An "RP" prefix indicates adapters with a thru hole for a spring pin.

## 7/16" Hex Insert Bit Only



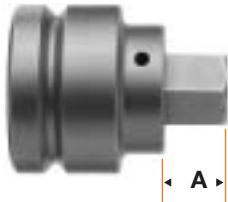
Part Number	Hex Size	Overall Length	
		In.	mm
SZ-11-A-3	5/32	3	76
SZ-12-A-2	3/16	2	51
SZ-12-A-3	3/16	3	76
SZ-12-A-6	3/16	6	152
SZ-13-A-3	7/32	3	76
SZ-14-A-3	1/4	3	76
SZ-14-A-4	1/4	4	102
SZ-15-A-2	5/16	2	51
SZ-15-A-3	5/16	3	76
SZ-15-A-4	5/16	4	102
SZ-16-A-3	3/8	3	76
SZ-16-A-4	3/8	4	102


Use 7/16" Hex Insert Bits with 7/16" Female Hex Square drive adapters, page 51. These bits feature a thru hole on the hex flat for use with a spring pin.

# Socket Head Bits with Square Drive Adapters, SAE

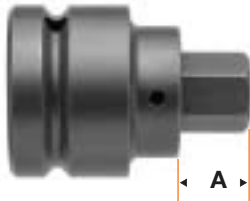


## 3/4" Square Drive



Complete	Part Number		Hex Size	Overall Length		Length of Insert		Bit Length (A)	
	Adapter Only	Insert Only		In.	mm	In.	mm	In.	mm
SZ-30	SC-720	SZ-30-A	3/8	2 5/8	67	1 9/16	40	29/32	23
SZ-31	SC-720	SZ-31-A 	1/2	2 5/8	67	1 9/16	40	29/32	23
SZ-32	SC-720	SZ-32-A	9/16	2 5/8	67	1 9/16	40	29/32	23
SZ-33	RP-720	SZ-33-A	5/8	2 5/8	67	1 9/16	40	29/32	23
SZ-34	RP-720	SZ-34-A	3/4	2 5/8	67	1 9/16	40	29/32	23
SZ-37	RP-728	SZ-37-A	3/4	3 1/8	79	2	51	1 1/8	29
SZ-35	SC-720	SZ-35-A	7/8	2 5/8	67	1 9/16	40	29/32	23
SZ-38	RP-728	SZ-38-A	7/8	3 1/8	79	2	51	1 1/8	29
SZ-36	RP-720	SZ-36-A	1	2 5/8	67	1 9/16	40	29/32	23
SZ-39	RP-728	SZ-39-A	1	3 1/8	79	2	51	1 1/8	29

## 1" Square Drive



Complete	Part Number		Hex Size	Overall Length		Length of Insert		Bit Length (A)	
	Adapter Only	Insert Only		In.	mm	In.	mm	In.	mm
SZ-82	RP-820	SZ-32-A	9/16	3 1/16	78	1 9/16	40	29/32	23
SZ-83	RP-828	SZ-83-A	9/16	3 1/4	83	2	51	1 1/8	29
SZ-84	RP-820	SZ-33-A	5/8	3 1/16	78	1 9/16	40	29/32	23
SZ-85	RP-828	SZ-85-A	5/8	3 1/4	83	2	51	1 1/8	29
SZ-86	RP-820	SZ-34-A	3/4	3 1/32	77	1 9/16	40	29/32	23
SZ-87	RP-828	SZ-37-A	3/4	3 1/4	83	2	51	1 1/8	29
SZ-88	SC-820	SZ-35-A	7/8	3 1/16	78	1 9/16	40	29/32	23
SZ-89	RP-828	SZ-38-A	7/8	3 1/4	83	2	51	1 1/8	29
SZ-91	RP-828	SZ-39-A	1	3 1/4	83	2	51	1 1/8	29
SZ-100	RP-848	SZ-100-A	1	3 1/16	78	2 1/2	64	1 3/8	35
SZ-101	RP-848	SZ-101-A	1 1/4	3 1/2	89	2 5/8	67	1 3/8	35
SZ-102	RP-848	SZ-102-A	1 1/2	3 3/4	95	2 5/8	67	1 3/8	35

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

## Socket Head Bit and Adapter Sets



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 Adapters & Inserts, Metric

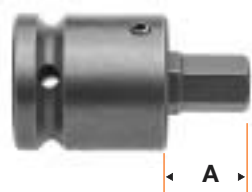


## 3/8" Square Drive



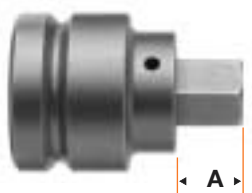
Complete	Part Number		Hex Size	Overall Length		Length of Insert		Bit Length (A)	
	Adapter Only	Insert Only		In.	mm	In.	mm	In.	mm
SZ-3-7-4mm	SC-314	SZ-7-4mm	4mm	2 1/4	57	1 3/8	35	7/8	22
SZ-3-7-5mm	SC-314	SZ-7-5mm	5mm	2 1/4	57	1 3/8	35	7/8	22
SZ-3-7-6mm	SC-314	SZ-7-6mm	6mm	2 1/4	57	1 3/8	35	7/8	22
SZ-3-7-8mm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

## 1/2" Square Drive



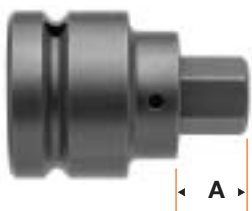
Complete	Part Number		Hex Size	Overall Length		Length of Insert		Bit Length (A)	
	Adapter Only	Insert Only		In.	mm	In.	mm	In.	mm
SZ-5-7-3mm	SC-514	SZ-7-3mm	3mm	2 1/2	63	1 3/8	35	7/8	22
SZ-5-7-4mm	SC-514	SZ-7-4mm	4mm	2 1/2	63	1 3/8	35	7/8	22
SZ-5-7-5mm	SC-514	SZ-7-5mm	5mm	2 1/2	63	1 3/8	35	7/8	22
SZ-5-7-6mm	SC-514	SZ-7-6mm	6mm	2 1/2	63	1 3/8	35	7/8	22
SZ-5-7-8mm	SC-514	SZ-7-8mm	8mm	2 1/2	63	1 3/8	35	7/8	22
SZ-5-7-10mm	SC-514	SZ-7-10mm	10mm	2 1/2	63	1 3/8	35	7/8	22
SZ-5-7-12mm	SC-514	SZ-7-12mm	12mm	2 1/2	63	1 3/8	35	7/8	22
SZ-5-7-14mm	SC-514	SZ-7-14mm	14mm	2 1/2	63	1 3/8	35	15/16	24
SZ-5-10-14mm	RP-520	SZ-10-14mm	14mm	2 1/2	63	1 9/16	40	29/32	23
SZ-5-10-17mm	RP-520	SZ-10-17mm	17mm	2 1/2	63	1 9/16	40	29/32	23
SZ-5-10-19mm	RP-520	SZ-10-19mm	19mm	2 1/2	63	1 9/16	40	29/32	23

## 3/4" Square Drive



Complete	Part Number		Hex Size	Overall Length		Length of Insert		Bit Length (A)	
	Adapter Only	Insert Only		In.	mm	In.	mm	In.	mm
SZ-7-10-10mm	RP-720	SZ-10-10mm	10mm	2 1/2	64	1 9/16	40	29/32	23
SZ-7-10-12mm	RP-720	SZ-10-12mm	12mm	2 1/2	64	1 9/16	40	29/32	23
SZ-7-10-14mm	RP-720	SZ-10-14mm	14mm	2 1/2	64	1 9/16	40	29/32	23
SZ-7-10-17mm	RP-720	SZ-10-17mm	17mm	2 1/2	64	1 9/16	40	29/32	23

## 1" Square Drive



Complete	Part Number		Hex Size	Overall Length		Length of Insert		Bit Length (A)	
	Adapter Only	Insert Only		In.	mm	In.	mm	In.	mm
SZ-8-14-17mm	RP-828	SZ-14-17mm	17mm	3 5/16	84	2	51	1 1/8	29
SZ-8-14-19mm	RP-828	SZ-14-19mm	19mm	3 5/16	84	2	51	1 1/8	29
SZ-8-14-22mm	RP-828	SZ-14-22mm	22mm	3 5/16	84	2	51	1 1/8	29
SZ-8-14-24mm	RP-828	SZ-14-24mm	24mm	3 5/16	84	2	51	1 1/8	29
SZ-8-14-27mm	RP-828	SZ-14-27mm	27mm	3 5/16	84	2	51	1 1/8	29

## Socket Head Bit and Adapter Sets



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





# Square Recess Bits









## 1/4" Hex Insert Bits



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





## 1/4" Hex Power Drive



Part Number	Point Size	Nominal Size In.	Overall Length	
			In.	mm
954-0	0	1/16	1 15/16	49
954-A-0	0	1/16	2 3/4	70
954-C-0	0	1/16	6	152
954-1X 	1	3/32	1 15/16	49
954-A-1	1	3/32	2 3/4	70
954-B-1	1	3/32	3 1/2	89
954-C-1	1	3/32	6	152
954-2X 	2	1/8	1 15/16	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	1 15/16	49
954-A-3	3	9/64	2 3/4	70
954-B-3	3	9/64	3 1/2	89
954-C-3	3	9/64	6	152

## 1/4" Hex Power Drive – Turned Body



Part Number	Point Size	Nominal Size In.	Overall Length		Turned Length	
			In.	mm	In.	mm
1950-0	0	1/16	1 15/16	49	1 1/4	32
1951-0	0	1/16	2 3/4	70	2	51
1953-0	0	1/16	3 1/2	89	2 3/4	70
1950-1	1	3/32	1 15/16	49	1 1/4	32
1951-1	1	3/32	2 3/4	70	2	51
1953-1	1	3/32	3 1/2	89	2 3/4	70
1950-2X 	2	1/8	1 15/16	49	1 1/4	32
1951-2X 	2	1/8	2 3/4	70	2	51
1953-2X 	2	1/8	3 1/2	89	2 3/4	70
1950-3	3	9/64	1 15/16	49	1 1/4	32
1951-3	3	9/64	2 3/4	70	2	51
1953-3X 	3	9/64	3 1/2	89	2 3/4	70

Screw Size	3 & 4	5, 6, 7	8, 9, 10	12-14 1/4
Square Point Size	0	1	2	3

Quad-rex bits available upon request.

# Clutch Head Bits



## 1/4" Hex Insert Bits



Standard Part Number	G-Type Part Number	Clutch Size	Overall Length	
			In.	mm
190-1	190-1G	3/32	1 1/4	32
190-2	190-2G	1/8	1 1/4	32
190-3	190-3G	5/32	1 1/4	32
190-4	190-4G	3/16	1 1/4	32
190-5	190-5G	1/4	1 1/4	32
190-7	190-7G	5/16	1 1/4	32

## 1/4" Hex Power Drive



Type G power bits are available on request.

Standard Part Number	Clutch Size	Overall Length	
		In.	mm
2122	1/8	1 15/16	49
2123	5/32	1 15/16	49
2123-A	5/32	2 3/4	70
2123-B	5/32	3 1/2	89
2124	3/16	1 15/16	49
2125	1/4	1 15/16	49

# 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-1418	7/16	9/16	1 1/2	38
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 55.

## 1/4" Hex Insert Bits





Part Number	Point Size	Overall Length	
		In.	mm
212-0	0	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
212-1/4 	1/4	1	25

## 1/4" Hex Insert Bits – ACR®



Available with ACR® ribs for removal only



Part Number	Point Size	Overall Length	
		In.	mm
212-6-ACR	6	1 1/4	32
212-8-ACR 	8	1 1/4	32
212-10-ACR 	10	1 1/4	32
212-1/4-ACR	1/4	1 1/4	32

## 5/16" Hex Insert Bits



Part Number	Point Size	Overall Length	
		In.	mm
212-8A	8	1 1/4	32
212-10A	10	1 1/4	32
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

## 5/16" Hex Insert Bits – ACR®












Available with 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

## 1/4" Hex Power Drive



Part Number	Point Size	Overall Length	
		In.	mm
170-0	0	1 1/4	32
273A-0	0	1 13/16	46
273-0	0	1 15/16	49
273B-0	0	2 3/4	70
265-0	0	3 1/2	89
265A-0	0	6	152
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	70
265-1	1	3 1/2	89
265A-1	1	6	152
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-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
170-6-ACR*	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
170-8-ACR*	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
170-10-ACR* 	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
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

\*Feature ACR® anti-camout ribs.

 Refer to Page iv for description of Rapid Select.


## 5/16" Hex Power Drive



Part Number	Point Size	Overall Length	
		In.	mm
170-8A	8	1 1/4	32
170-10A	10	1 1/4	32
170-1/4A	1/4	1 1/4	32
170-5/16A	5/16	1 1/4	32
170-3/8A	3/8	1 1/4	32

## 7/16" Hex Power Drive



Part Number	Point Size	Overall Length	
		In.	mm
170-1/4 	1/4	1 1/4	32
265-1/4	1/4	3 1/2	89
265A-1/4	1/4	6	152
170-5/16	5/16	1 1/4	32
265-5/16	5/16	3 1/2	89
265A-5/16	5/16	6	152
170-3/8	3/8	1 1/4	32
170-3/8C	3/8	1 1/4	32
265A-3/8	3/8	6	152
170-7/16	7/16	1 1/4	32
170-7/16C	7/16	1 1/4	32
265-7/16	7/16	3 1/2	89
265A-7/16	7/16	6	152

## 7/16" Hex Power Drive – ACR®

Available with ACR® ribs for removal only



Part Number	Point Size	Overall Length	
		In.	mm
170-1/4-ACR	1/4	1 1/4	32
170-5/16-ACR	5/16	1 1/4	32






## 5/8" Hex Power Drive



Part Number	Point Size	Overall Length	
		In.	mm
170-1/2	1/4	1 1/4	32
170-9/16	9/16	1 1/4	32
170-5/8	5/8	1 1/4	32

## 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®

Available with 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 Bit



Part Number	Recess Size	Screw Size Tension Head	Screw Size Shear Head	Overall Length	
				In.	mm
TWE-4	4	8-32	10-32	1 1/4	32
TWE-5	5	10-32	1/4-28	1 1/4	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	-	1 1/4	32
TW-1	1	2-56	4-40	1 1/4	32
TW-2	2	4-40	6-32	1 1/4	32
TW-3 	3	6-32	8-32	1 1/4	32
TW-4 	4	8-32	10-32	1 1/4	32
TW-5 	5	10-32	1/4-28	1 1/4	32
TWB-6	6	1/4-28	5/16-24	1 1/4	32
TWB-7	7	5/16-24	3/8-24	1 1/4	32
TWB-8	8	3/8-24	7/16-20	1 1/4	32

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 Refer to Page iv for description of Rapid Select.

### 1/4" Hex Power Drive – ACR®



Part Number	Recess Size	Screw Size Tension Head	Screw Size Shear Head	Overall Length In.	Overall Length mm
TW-5-ACR	5	10-32	1/4-28	1 1/4	32

### 5/16" Hex Power Drive



Part Number	Recess Size	Screw Size Tension Head	Screw Size Shear Head	Overall Length In.	Overall Length mm
TWA-4	4	8-32	10-32	1 1/4	32
TWA-5	5	10-32	1/4-28	1 1/4	32
TWA-6	6	1/4-28	5/16-24	1 1/4	32
TWA-7	7	5/16-24	3/8-24	1 1/4	32
TWA-8	8	3/8-24	7/16-20	1 1/4	32

### 7/16" Hex Power Drive



Part Number	Recess Size	Screw Size Tension Head	Screw Size Shear Head	Overall Length In.	Overall Length mm
TW-6	6	1/4-28	5/16-24	1 1/4	32
TW-7	7	5/16-24	3/8-24	1 1/4	32
TW-8	8	3/8-24	7/16-20	1 1/4	32

### 5/8" Hex Power Drive



Part Number	Recess Size	Screw Size Tension Head	Screw Size Shear Head	Overall Length In.	Overall Length mm
TW-9	9	7/16-20	1/2-20	1 1/4	32
TW-10	10	1/2-20	9/16-18	1 1/4	32
TW-11	11	9/16-18	5/8-18	1 1/4	32
TW-12	12	5/8-18	3/4-16	1 1/4	32
TW-13	13	3/4-16	7/8-14	2 1/2	64

### 3/4" Hex Power Drive



Part Number	Recess Size	Screw Size Tension Head	Screw Size Shear Head	Overall Length In.	Overall Length mm
TW-14	14	7/8-14	1-12	3	76
TW-15	15	1-12	-	3	76



## 1/4" Square Drive Insert Bits



Part Number	Recess	Overall Length In.	Body Diameter In.	Blade Thickness In.	Blade Width In.
HTS-0	0	1	1/2	.029	.167
HTS-1	1	1	1/2	.049	.274
HTS-2	2	1	1/2	.059	.295
HTS-3	3	1	1/2	.059	.377
HTS-4	4	1	1/2	.073	.502

## 3/8" Square Drive Insert Bits



Part Number	Recess	Overall Length In.	Body Diameter In.	Blade Thickness In.	Blade Width In.
HTS-3A	3	1	3/4	.059	.377
HTS-4A	4	1	3/4	.073	.502
HTS-5	5	1 1/4	3/4	.079	.629
HTS-6	6	1 1/4	3/4	.095	.745

## 1/2" Square Drive Insert Bits



Part Number	Recess	Overall Length In.	Body Diameter In.	Blade Thickness In.	Blade Width In.
HTS-7	7	1 5/8	1	.112	.884
HTS-8	8	1 5/8	1	.142	.995
HTS-9	9	1 5/8	1 1/4	.162	1.136
HTS-10	10	1 5/8	1 1/4	.182	1.250
HTS-12	12	2 3/8	1 1/4	.216	1.500

## 1/4" Hex Insert Bits



Part Number	Recess	Overall Length In.	Body Diameter In.	Blade Thickness In.	Blade Width In.
HTN-B-1	1	1 1/4	9/32	.049	.274
HTN-B-2	2	1 1/4	5/16	.059	.295
HTN-B-3	3	1 1/4	3/8	.059	.377
HTN-B-4	4	1 1/4	1/2	.073	.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



# Triple Square Bits



## 1/4" Hex Insert Bits



Part Number	Point Size	Overall Length	
		In.	mm
440-TSQ-4M	4mm	1	25
440-TSQ-5M	5mm	1	25
440-TSQ-6M	6mm	1	25
440-TSQ-8M	8mm	1	25
440-TSQ-10M	10mm	1	25

## 5/16" Hex Insert Bits



Part Number	Point Size	Overall Length	
		In.	mm
480-TSQ-4M	4mm	1 1/4	32
480-TSQ-5M	5mm	1 1/4	32
480-TSQ-6M	6mm	1 1/4	32
480-TSQ-8M	8mm	1 1/4	32
480-TSQ-10M	10mm	1 1/4	32
480-TSQ-12M	12mm	1 1/4	32
480-TSQ-14M	14mm	1 1/4	32

## 1/4" Hex Power Drive



Part Number	Point Size	Overall Length	
		In.	mm
49-TSQ-4M	4mm	2	50
49-TSQ-5M	5mm	2	50
49-TSQ-6M	6mm	2	50
49-TSQ-8M	8mm	2	50
49-TSQ-10M	10mm	2	50
49-TSQ-12M	12mm	2	50

## 7/16" Hex Power Drive



Part Number	Point Size	Overall Length	
		In.	mm
48-TSQ-4M	4mm	3 1/2	88
48-TSQ-5M	5mm	3 1/2	88
48-TSQ-6M	6mm	3 1/2	88
48-TSQ-8M	8mm	3 1/2	88
48-TSQ-10M	10mm	3 1/2	88
48-TSQ-12M	12mm	3 1/2	88
48-TSQ-14M	14mm	3 1/2	88



Lined writing area consisting of horizontal lines for notes.

# APEX® Solutions

## **Does Apex offer magnetic bit holders?**

Bit holders, like this Apex M-490, let you use a variety of insert bits in power tool applications. You get economy and flexibility – and fasteners can be magnetically held to the bit.

*(See page 52)*



## **Do Apex quick-release bit holders hold bits securely?**

A quick-release bit holder allows fast, easy insert bit changes while assuring that bits stay securely in the bit holder. Simply pull back on the knurled sleeve to release the bit.

*(See pages 53)*



## **Does Apex offer quick release chucks?**

Apex has a complete line of quick release chucks that provide fast and easy power bit changes.

*(See page 56)*



# Bit Holders



## 1/4" Hex Drive for 1/4" Hex Inserts



Non-magnetic

Part Number	Overall Length		
	In.	mm	
490	2 1/8	54	
490-3	3	76	
490-4	4	102	
490-5	5	127	
490-6	6	152	
490-8	8	203	
490-10	10	254	
M-490-2	2	51	Magnetic
M-490-NR	2 31/32	75	Magnetic; No lock ring
M-490	2 31/32	75	Magnetic
M-497	3 3/32	79	Magnetic; 3/8" reduced diameter; no lock ring
M-490-4	4	102	Magnetic
M-490-6	6	152	Magnetic
M-490-8	8	203	Magnetic
M-490-10	10	254	Magnetic
M-490-12	12	304	Magnetic
M-44-90	3 1/4	83	Magnetic; for Flip-Tip™ reversible bits
M-495	2 7/8	73	Magnetic; 3/8" (9.5mm) turned shank
M-495-5	5	127	Magnetic; 3/8" (9.5mm) turned shank
RM-490	2 7/8	73	Magnetic; nose piece only, #490-RN
RM-490-4	4	102	Magnetic; nose piece only, #490-RN
RM-490-6	6	152	Magnetic; nose piece only, #490-RN
M-490-2-OR	2	51	Magnetic; with O-Ring retainer
M-490-OR	3	76	Magnetic; with O-Ring retainer

# Bit Holders

## 1/4" Hex Drive for 1/4" Hex Inserts, Quick Release



Part Number	Overall Length		
	In.	mm	
QR-M-490-2	2	51	Magnetic; quick release
QR-M-490-A	2 29/32	74	Magnetic; quick release
QR-M-490-A6	6	152	Magnetic; quick release
QR-M-490-200M	7 7/8	200	Magnetic; quick release

## 1/4" Hex Drive for 5/16" Hex Inserts



Part Number	Overall Length		
	In.	mm	
498	2 3/8	60	
M-498	3 1/16	78	Magnetic

## 5/16" Hex Drive



Part Number	Overall Length		
	In.	mm	
630	1 13/16	46	For 1/4" hex inserts
M-630	3	76	For 1/4" hex inserts; magnetic
638	2 1/2	64	For 5/16" hex inserts
M-638	3 3/32	79	For 5/16" hex inserts; magnetic

## 5/16" Buckeye-Desoutter for 1/4" Hex Inserts




Part Number	Overall Length		
	In.	mm	
610	2	51	
M-610	3 3/16	81	Magnetic

# Bit Holders



## 7/16" Hex Drive



Part Number	Overall Length		
	In.	mm	
488	2 3/4	70	For 1/4" hex inserts
M-488 	3 1/16	78	For 1/4" hex inserts; magnetic
480	2 3/4	70	For 5/16" hex inserts
M-480	3 5/16	84	For 5/16" hex inserts; magnetic
M-480-6	6	152	For 5/16" hex inserts; magnetic

## 9/32" 130-A Yankee Type for 1/4" Hex Inserts



Part Number	Overall Length		
	In.	mm	
450	2 1/4	57	
M-450	3 3/8	86	Magnetic

## 5/16" 131-A Yankee Type for 1/4" Hex Inserts



Part Number	Overall Length		
	In.	mm	
460	2 1/4	57	
M-460	3 3/8	86	Magnetic

## 7/32" 135-A Yankee Type for 1/4" Hex Inserts



Part Number	Overall Length		
	In.	mm	
470	2 1/4	57	
M-470	3 3/8	86	Magnetic

## 1/4"-20 Screw Shank for 1/4" Hex Inserts



Part Number	Overall Length		
	In.	mm	
510	1 1/16	30	
M-510	2 11/32	60	Magnetic

## 1/4"-24 Screw Shank for 1/4" Hex Inserts



Part Number	Overall Length		
	In.	mm	
400-BH	1 1/8	29	
M-400	2 13/32	61	Magnetic

# Bit Holders

## 1/4" Female Square Drive



Part Number	Overall Length		
	In.	mm	
825	1	25	For 1/4" hex inserts
M-825	2 9/32	58	For 1/4" hex inserts; magnetic
820	23/32	18	For 1/4" square inserts

## 3/8" Female Square Drive



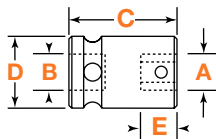
Part Number	Overall Length		
	In.	mm	
838	1 1/2	38	For 1/4" hex inserts
M-838	2 5/8	69	For 1/4" hex inserts; magnetic
835	1 1/2	38	For 5/16" hex inserts
M-835	2 3/4	70	For 5/16" hex inserts; magnetic
830	1 1/2	38	For 5/16" square inserts

## 1/2" Female Square Drive



Part Number	Overall Length		
	In.	mm	
858	1 3/4	45	For 1/4" hex inserts
M-858	2 3/4	70	For 1/4" hex inserts; magnetic
855	1 3/4	45	For 5/16" hex inserts
M-855	2 3/4	70	For 5/16" hex inserts; magnetic
850	1 3/4	45	For 5/16" square inserts

## Bit Holders/Adapters with Set Screw or Thru Hole



Set Screw Lock	Part Number		Hex Opening (A) In.	Square Drive (B) In.	Overall Length (C)		Body Diameter (D)		Opening Depth (E)	
	Spring Pin Retainer	Spring Pin Only			In.	mm	In.	mm	In.	mm
	SC-108	-	1/4	1/4	1 1/4	32	3/4	19	5/8	16
	SC-308	-	1/4	3/8	1 1/2	38	3/4	19	5/8	16
	SC-508	-	1/4	1/2	1 1/2	38	7/8	22	5/8	16
	SC-114	-	7/16	1/4	1	25	3/4	19	17/32	13
	SC-314	RP-314	7/16	3/8	1 3/8	35	3/4	19	17/32	13
	SC-514	RP-514	7/16	1/2	1 5/8	41	15/16	24	17/32	13
	SC-614	RP-614	7/16	5/8	1 3/4	46	1 1/4	32	17/32	13
	SC-520	RP-520	5/8	1/2	1 1/2	38	1 1/8	29	11/16	17
	SC-620	RP-620	5/8	5/8	1 1/2	38	1 1/4	32	11/16	17
	SC-720	RP-720	5/8	3/4	1 11/16	43	1 1/2	38	11/16	17
	SC-820	RP-820	5/8	1	2 1/8	54	2 1/8	54	11/16	17
	SC-724	RP-724	3/4	3/4	2	51	1 5/8	42	7/8	22
	SC-728	RP-728	7/8	3/4	2	51	1 5/8	42	57/64	23
	SC-828	RP-828	7/8	1	2 1/8	54	2 1/8	54	5/8	23

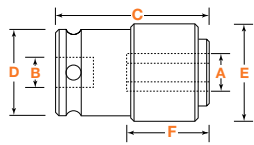
Note: Use SC and RP bit holders with socket head inserts (page 36) and pipe plug inserts (page 40). Can be used with power bits.

## Female Threaded Drive, Quick Releasing Chucks



Part Number	Female Thread	Hex Opening In.	Overall Length In.	Overall Length mm	Overall Diameter In.	Overall Diameter mm	Opening Depth In.	Opening Depth mm
QRA-08	3/8"-24	1/4	1 3/4	45	3/4	19	61/64	24
QRA-14	3/8"-24	7/16	2	51	1 1/4	32	1 1/16	27
QRF-08	1/2"-20	1/4	1 3/4	45	3/4	19	61/64	24
QRF-14	1/2"-20	7/16	2	51	1 1/4	32	1 1/16	27
QRF-20	1/2"-20	5/8	2 5/8	67	1 5/8	41	1 1/2	38

## Female Square Drive, Quick Releasing Chucks




Part Number	Hex Opening (A) In.	Square Drive (B) In.	Overall Length (C) In.	Overall Length mm	Body Diameter (D) In.	Body Diameter mm	Sleeve Diameter (E) In.	Sleeve Diameter mm	Opening Depth (F) In.	Opening Depth mm
QR-108	1/4	1/4	1 1/2	38	3/4	19	3/4	19	61/64	24
QR-308	1/4	3/8	1 3/4	45	3/4	19	3/4	19	61/64	24
QR-508	1/4	1/2	2 1/8	54	7/8	22	3/4	19	61/64	24
QR-314	7/16	3/8	2	51	1	25	1 1/4	32	1 3/32	28
QR-514	7/16	1/2	2 1/8	54	1	25	1 1/4	32	1 1/16	27
QR-614	7/16	5/8	2 1/8	54	1 1/4	32	1 1/4	32	1 1/16	27
QR-714	7/16	3/4	2 3/8	60	1 1/2	38	1 1/4	32	1 1/16	27
QR-520	5/8	1/2	2 5/8	67	1 1/2	38	1 5/8	41	1 1/2	38
QR-620	5/8	5/8	2 5/8	67	1 1/2	38	1 5/8	41	1 1/2	38
QR-720	5/8	3/4	3 1/8	79	1 1/2	38	1 5/8	41	1 1/2	38
QR-820	5/8	1	3 1/4	83	2 1/8	54	1 5/8	41	1 1/2	38
QR-824	3/4	1	3 3/4	95	2	51	1 7/8	48	1 5/8	41




# Hand Drivers

## Drivers with Self-Contained Insert Bits




Part No.	Female Hex Size	Overall Length In.	Overall Length mm	Blade Projection In.	Blade Projection mm	
M-15-SC	1/4	8 1/2	216	4 3/8	111	Phillips #1, #2, #3; Slotted 4F-5R, 10F-12R; hollow handle.
M-15-SC-A	1/4	8 1/2	216	4 3/8	111	Without bits; hollow handle.

## Replaceable Bit Drivers




Part No.	Female Hex Size	Overall Length In.	Overall Length mm	Blade Projection In.	Blade Projection mm
1505-P	1/4	1 7/8	48	-	-
1510-P	1/4	2 3/4	70	7/8	22
1555-P	5/16	2 7/8	73	7/8	22
1500-P	1/4	7 1/2	191	3 9/32	83
1550-P	5/16	10 1/2	267	6	152

## Replaceable Bit Drivers – Magnetic



Part No.	Female Hex Size	Overall Length In.	Overall Length mm	Blade Projection In.	Blade Projection mm
M-1505-P	1/4	2 3/8	60	3/8	10
M-1500-P	1/4	8 1/2	216	4 3/8	111
M-1550-P	5/16	10 1/2	267	6	152

## Replaceable Socket Nut Runners



Part Number	Drive Size	Type Lock.	Overall Length In.	Overall Length mm	Blade Projection In.	Blade Projection mm
SW-911-P	1/4" Sqr.	Pin	7 1/2	191	3	76
SW-911-BP	1/4" Sqr.	Ball	7 1/2	191	3	76
SWSC-911-C*	1/4" Sqr.	Ball	8 5/16	211	3 5/8	92

\*Hollow handle with 3/16, 1/4, 5/16 and 3/8 sockets.

## Industrial Bit Kit



### 24 Bit Kit Tool kit includes plastic carrying case with:

Magnetic hand driver and magnetic bit holder.

Phillips bits: #1, #2, #3

Slotted bits: 3F-4R, 4F-5R, 6F-8R, 8F-10R, 10F-12R

Torx® bits: T-10, T-15, T-20, T-25, T-27, T-30, T-40

Square Recess bits: 3/32", 1/8"

Hex bits: 5/64", 3/32", 7/64", 1/8", 9/64"

Pozidriv® bits: #1, #2

Pozidriv® is a registered trademark of the Phillips Screw Co. Torx® is a registered trademark of the Camcar Division of Textron.


Refer to Page iv for description of Rapid Select.

# Hand Drivers



## Torx® Keys







Part Number	Driver Size	A Ref.		Short Arm		Long Arm	
				In.	mm	In.	mm
71-TX-06*	T-6	.066		5/8	16	1 11/16	43
71-TX-07	T-7	.077		5/8	16	1 7/8	48
71-TX-08	T-8	.090		5/8	16	1 7/8	48
71-TX-09	T-9	.097		5/8	16	1 7/8	48
71-TX-10	T-10	.107		11/16	18	2	51
71-TX-15	T-15	.128		11/16	18	2 1/8	54
71-TX-20	T-20	.151		3/4	19	2 1/4	57
71-TX-25	T-25	.173		13/16	21	2 3/8	60
71-TX-27	T-27	.195		7/8	22	2 1/2	64
71-TX-30	T-30	.216		15/16	24	2 3/4	70
71-TX-40	T-40	.260		1 1/16	27	3	76
71-TX-45	T-45	.306		1 1/8	28	3 1/4	83
71-TX-50	T-50	.345		1 1/4	32	3 3/4	95
71-TX-55	T-55	.440		1 3/8	35	4 5/16	110

\*T-6 key has Torx tip on short arm only.

## Torx® Hand Drivers



Part Number	Driver Size	A Ref.		Overall Length		Blade Length	
				In.	mm	In.	mm
13-TX-06	T-6	0.066		6 3/4	171	3	76
13-TX-07	T-7	0.077		6 3/4	171	3	76
13-TX-08 	T-8	0.090		6 3/4	171	3	76
13-TX-09	T-9	0.097		6 3/4	171	3	76
13-TX-10 	T-10	0.107		6 3/4	171	3	76
13-TX-15 	T-15	0.128		6 3/4	171	3	76
13-TX-20	T-20	0.151		6 3/4	171	3	76
13-TX-25	T-25	0.173		6 3/4	171	3	76
13-TX-27	T-27	0.195		7 3/4	197	4	102
13-TX-30	T-30	0.216		7 3/4	197	4	102
13-TX-40	T-40	0.260		10 1/8	257	6	152

# Hand Drivers

## Torq-Set® Hand Drivers



Part Number	Screw Size	Overall Length		Blade Length	
		In.	mm	In.	mm
268P-0	0	3	76	1 1/4	32
268P-1	1	3	76	1 1/4	32
268P-2	2	6 1/4	159	3 1/8	79
268P-3	3	6 1/4	159	3 1/8	79
268P-4	4	6 1/4	159	3 1/8	79
268P-5	5	6 1/4	159	3 1/8	79
268P-6	6	7 1/2	190	4	102
268P-8	8	7 1/2	190	4	102
268P-10	10	7 1/2	190	4	102
268P-1/4	1/4	10 1/8	257	4	102

## Awls



Part Number	Overall Length		Shank Diameter	
	In.	mm	In.	mm
AW-95	7 7/16	189	.307	7.8
AW-95-L	8	203	.307	7.8
AW-95-LL	8 7/8	225	.307	7.8

Use awls to line up hole and scratch mark surfaces.

## Pivex™ Pivot Drivers



Part Number	Overall Length		
	In.	mm	
MQR-15PV	11.8	298	1/4" Magnetic Quick-Release Bit Holder
M-15PVH*	11.7	296	1/4" Magnetic Bit Holder, Hollow Handle with Bits
M-15PVH-A	11.7	296	1/4" Magnetic Bit Holder, Hollow Handle without Bits

\*Includes Phillips #1, 2, 3 and Slotted 4F-5R, 10F-12R bits.

The Apex® Pivex™ replaceable bit hand driver has a jointed shaft that allows the handle to pivot 180°. This lets you apply five times more torque than an ordinary hand driver of the same length.

# 1/4" Hex Drive Nutsetters for SAE Sheet Metal Screws



## 6 Point



Power Drive

Part Number 6 Point	Size In.	Overall Length In.	Socket Nose Diameter In.		
DB-08	1/4	2 9/16	7/16	Non-magnetic	
DB-10	5/16	2 9/16	1/2	Non-magnetic	
DB-12	3/8	2 9/16	9/16	Non-magnetic	
MDA-08	1/4	1 3/4	7/16	Magnetic	
MDAT-08	1/4	1 3/4	3/8	Magnetic	
MDA-10	5/16	1 3/4	1/2	Magnetic	
MDA-12	3/8	1 3/4	9/16	Magnetic	
MDA-14	7/16	2	11/16	Magnetic	
MDB-08	1/4	2 9/16	7/16	Magnetic	5/16" Shank Diameter
MDB-10	5/16	2 9/16	1/2	Magnetic	5/16" Shank Diameter
MDB-12	3/8	2 9/16	9/16	Magnetic	5/16" Shank Diameter
MDB-14	7/16	2 9/16	5/8	Magnetic	5/16" Shank Diameter
MDC-08	1/4	2 9/16	7/16	Magnetic	3/8" Shank Diameter
MDC-10	5/16	2 9/16	1/2	Magnetic	3/8" Shank Diameter
MDC-12	3/8	2 9/16	9/16	Magnetic	3/8" Shank Diameter
MHM-2508	1/4	1 1/8	7/16	Magnetic	
MHM-1310	5/16	1 1/8	1/2	Magnetic	
MHM-1912	3/8	1 3/4	9/16	Magnetic	



Insert

# 1/4" Hex Drive Nutsetters for Metric Sheet Metal Screws

## 6 Point



Power Drive

Part Number 6 Point	Size mm	Overall Length mm	Socket Nose Diameter mm		
MDA-6mm	6	44.5	9.5	Magnetic	
MDA-7mm	7	44.5	11.1	Magnetic	
MDA-8mm	8	44.5	12.7	Magnetic	
MDA-10mm	10	44.5	14.3	Magnetic	
MHM-6mm	6	31.8	11.1	Magnetic	
MHM-7mm	7	31.8	11.1	Magnetic	
MHM-8mm	8	31.8	12.7	Magnetic	
MHM-10mm	10	31.8	14.3	Magnetic	



Insert

# 1/4" Hex Drive Nutsetters



## 6 Point and 6 Point Magnetic



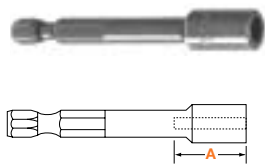
Part Number 6 Point	Part Number Magnetic	Size In.	Overall Length In.	Socket Nose Diameter In.
6N-0806-2	M6N-0806-2	3/16	2	5/16
6N-0806-3	M6N-0806-3	3/16	3	5/16
6N-0806-4	-	3/16	4	5/16
-	M6N-0806-5	3/16	5	5/16
6N-0806-6	M6N-0806-6	3/16	6	5/16
6N-0808-2	M6N-0808-2	1/4	2	7/16
6N-0808-3	M6N-0808-3	1/4	3	7/16
6N-0808-4	M6N-0808-4	1/4	4	7/16
6N-0808-5	M6N-0808-5	1/4	5	7/16
6N-0808-6	M6N-0808-6	1/4	6	7/16
6N-0810-2	M6N-0810-2	5/16	2	1/2
6N-0810-3	M6N-0810-3	5/16	3	1/2
6N-0810-4	M6N-0810-4	5/16	4	1/2
6N-0810-5	M6N-0810-5	5/16	5	1/2
6N-0810-6	M6N-0810-6	5/16	6	1/2
6N-0811-2	M6N-0811-2	11/32	2	9/16
6N-0811-3	M6N-0811-3	11/32	3	9/16
6N-0812-2	M6N-0812-2	3/8	2	9/16
6N-0812-3	M6N-0812-3	3/8	3	9/16
6N-0812-4	M6N-0812-4	3/8	4	9/16
6N-0812-6	M6N-0812-6	3/8	6	9/16
6N-0814-2	M6N-0814-2	7/16	2	21/32
6N-0814-3	M6N-0814-3	7/16	3	21/32
6N-0814-4	M6N-0814-4	7/16	4	21/32
6N-0814-6	M6N-0814-6	7/16	6	21/32
6N-0816-2	M6N-0816-2	1/2	2	3/4
6N-0816-3	M6N-0816-3	1/2	3	3/4
6N-0818-2	M6N-0818-2	9/16	2	13/16

Refer to Page iv for description of Rapid Select.

# 1/4" Hex Drive Nutsetters



## 6 Point, Bolt Clearance



Part Number 6 Point	Size In.	Overall Length In.	Socket Nose Diameter In.	Depth of Clearance (A) In.
6B-0808	1/4	3 1/4	7/16	1 3/8
6B-0809	9/32	3 1/4	1/2	1 3/8
6B-0810	5/16	3 1/4	1/2	1 3/8
6B-0811	11/32	3 1/4	9/16	1 3/8
6B-0812	3/8	3 1/4	9/16	1 3/8
6B-0814	7/16	3 1/4	21/32	1 3/8
6B-0816	1/2	3 1/4	3/4	1 3/8
6B-0818	9/16	3 1/4	13/16	1 3/8
6B-0820	5/8	3 1/4	7/8	1 3/8

See bolt clearance Apex Solutions Page 74.

## 6 Point Metric



Part Number 6 Point	Part Number Magnetic	Size mm	Overall Length mm	Socket Nose Diameter mm
6N-08-8M-3	M6N-08-8M-3	8	76	12.7
6N-08-8M-4	M6N-08-8M-4	8	102	12.7
6N-08-8M-6	M6N-08-8M-6	8	152	12.7
6N-08-10M-3	M6N-08-10M-3	10	76	14.3
6N-08-10M-4	M6N-08-10M-4	10	102	14.3
6N-08-10M-6	M6N-08-10M-6	10	76	14.3
6N-08-12M-3	M6N-08-12M-3	12	76	19.0
6N-08-12M-4	M6N-08-12M-4	12	102	19.0
6N-08-12M-6	M6N-08-12M-6	12	152	19.0

# 7/16" Hex Drive Nutsetters

## 6 Point



Part Number 6 Point	Size In.	Overall Length In.	Socket Nose Diameter In.
6N-1410-3	5/16	3	9/16
6N-1412-2	3/8	2	9/16
6N-1412-3	3/8	3	9/16
6N-1414-3	7/16	3	3/4
6N-1416-3	1/2	3	13/16
6N-1416-4	1/2	4	13/16
6N-1418-3	9/16	3	7/8
6N-1418-4	9/16	4	7/8
6N-1418-6	9/16	6	7/8
6N-1418-8	9/16	8	7/8
6N-1420-3	5/8	3	1
6N-1420-6	5/8	6	1
6N-1424-3	3/4	3	1 1/8
6N-1424-6	3/4	6	1 1/8

# 5/8" Hex Drive Nutsetters

## 6 Point



Part Number 6 Point	Size In.	Overall Length In.	Socket Nose Diameter In.
6N-2028-4	7/8	4	1 3/8
6N-2036-4	1 1/8	4	1 5/8

# Hex Extensions



## Male Hex Drive with 1/4" Male Square



Part Number	Hex Drive In.	Type of Lock	Overall Length	
			In.	mm
EX-250	1/4	Pin	1 3/8	35
EX-250-B	1/4	Ball	1 3/8	35
EX-250-2	1/4	Pin	2	51
EX-250-B-2	1/4	Ball	2	51
EX-250-3	1/4	Pin	3	76
EX-250-B-3	1/4	Ball	3	76
EX-250-4	1/4	Pin	4	102
EX-250-B-4	1/4	Ball	4	102
EX-250-5	1/4	Pin	5	127
EX-250-B-5	1/4	Ball	5	127
EX-250-6	1/4	Pin	6	152
EX-250-B-6	1/4	Ball	6	152
EX-250-8	1/4	Pin	8	203
EX-250-B-8	1/4	Ball	8	203
EX-250-12	1/4	Pin	12	305
EX-250-B-12	1/4	Ball	12	305
EX-262	5/16	Pin	1 1/2	38
EX-262-B	5/16	Ball	1 1/2	38
EX-262-2	5/16	Pin	2	51
EX-262-B-2	5/16	Ball	2	51
EX-262-3	5/16	Pin	3	76
EX-262-4	5/16	Pin	4	102
EX-262-B-4	5/16	Ball	4	102
EX-262-6	5/16	Pin	6	152
EX-262-B-6	5/16	Ball	6	152
EX-251	7/16	Pin	1 3/8	35
EX-251-B	7/16	Ball	1 3/8	35
EX-251-2	7/16	Pin	2	51
EX-251-B-2	7/16	Ball	2	51
EX-251-3	7/16	Pin	3	76
EX-251-B-3	7/16	Ball	3	76
EX-251-4	7/16	Pin	4	102
EX-251-B-4	7/16	Ball	4	102
EX-251-6	7/16	Pin	6	152
EX-251-8	7/16	Pin	8	203
EX-251-10	7/16	Pin	10	254



# Hex Extensions



## Male Hex Drive with 3/8" Male Square



Part Number	Hex Drive In.	Type of Lock	Overall Length	
			In.	mm
EX-370	1/4	Pin	1 5/8	41
EX-370-B	1/4	Ball	1 5/8	41
EX-370-2	1/4	Pin	2	51
EX-370-B-2	1/4	Ball	2	51
EX-370-3	1/4	Pin	3	76
EX-370-B-3	1/4	Ball	3	76
EX-370-4	1/4	Pin	4	102
EX-370-B-4	1/4	Ball	4	102
EX-370-5	1/4	Pin	5	127
EX-370-6	1/4	Pin	6	152
EX-370-B-6	1/4	Ball	6	152
EX-370-8	1/4	Pin	8	203
EX-370-B-8	1/4	Ball	8	203
EX-370-10	1/4	Pin	10	254
EX-370-B-10	1/4	Ball	10	254
EX-380	5/16	Pin	1 1/2	38
EX-380-B	5/16	Ball	1 1/2	38
EX-380-2	5/16	Pin	2	51
EX-380-B-2	5/16	Ball	2	51
EX-380-3	5/16	Pin	3	76
EX-380-4	5/16	Pin	4	102
EX-380-6	5/16	Pin	6	152
EX-371	7/16	Pin	1 3/4	45
EX-371-B	7/16	Ball	1 3/4	45
EX-371-2	7/16	Pin	2	51
EX-371-B-2	7/16	Ball	2	51
EX-371-2 3/4	7/16	Pin	2 3/4	70
EX-371-3	7/16	Pin	3	76
EX-371-B-3	7/16	Ball	3	76
EX-371-4	7/16	Pin	4	102
EX-371-B-4	7/16	Ball	4	102
EX-371-5	7/16	Pin	5	127
EX-371-6	7/16	Pin	6	152
EX-371-B-6	7/16	Ball	6	152
EX-371-8	7/16	Pin	8	203
EX-371-10	7/16	Pin	10	254
EX-371-12	7/16	Pin	12	305
EX-371-15	7/16	Pin	15	381

Refer to Page iv for description of Rapid Select.

# Hex Extensions



## Male Hex Drive with 1/2" Male Square



Part Number	Hex Drive In.	Type of Lock	Overall Length	
			In.	mm
EX-500-2	1/4	Pin	2	51
EX-500-B-2	1/4	Ball	2	51
EX-500-3	1/4	Pin	3	76
EX-500-B-3	1/4	Ball	3	76
EX-500-4	1/4	Pin	4	102
EX-500B-4	1/4	Ball	4	102
EX-500-6	1/4	Pin	6	152
EX-500-B-6	1/4	Ball	6	152
EX-512-2	5/16	Pin	2	51
EX-512-B-2	5/16	Ball	2	51
EX-512-3	5/16	Pin	3	76
EX-501-2	7/16	Pin	2 1/8	54
EX-501-B-2	7/16	Ball	2 1/8	54
EX-501-3	7/16	Pin	3	76
EX-501-B-3	7/16	Ball	3	76
EX-501-4	7/16	Pin	4	102
EX-501-B-4	7/16	Ball	4	102
EX-501-5	7/16	Pin	5	127
EX-501-B-5	7/16	Ball	5	127
EX-501-6	7/16	Pin	6	152
EX-501-B-6	7/16	Ball	6	152
EX-501-8	7/16	Pin	8	203
EX-501-B-8	7/16	Ball	8	203
EX-501-10	7/16	Pin	10	254
EX-501-B-10	7/16	Ball	10	254
EX-501-12	7/16	Pin	12	305
EX-501-15	7/16	Pin	15	381
EX-502	5/8	Pin	2	51
EX-502-B	5/8	Ball	2	51
EX-502-3	5/8	Pin	3	76
EX-502-B-3	5/8	Ball	3	76
EX-502-4	5/8	Pin	4	102
EX-502-B-4	5/8	Ball	4	102
EX-502-5	5/8	Pin	5	127
EX-502-6	5/8	Pin	6	152
EX-502-8	5/8	Pin	8	203

# Extensions

## Male Hex Drive with 5/8" Male Square



Part Number	Hex Drive In.	Type of Lock	Overall Length	
			In.	mm
EX-620-3	7/16	Pin	3	76
EX-620-6	7/16	Pin	6	152
EX-621-3	5/8	Pin	3	76
EX-621-B-3	5/8	Ball	3	76
EX-621-4	5/8	Pin	4	102
EX-621-6	5/8	Pin	6	152
EX-621-8	5/8	Pin	8	203

## Male Hex Drive with 3/4" Male Square



Part Number	Hex Drive In.	Type of Lock	Overall Length	
			In.	mm
EX-757-3	7/16	7/32 Drill Hole	3	76
EX-757-B-3	7/16	Ball	3	76
EX-758-4	5/8	7/32 Drill Hole	4	102
EX-758-B-4	5/8	Ball	4	102
EX-758-6	5/8	7/32 Drill Hole	6	152
EX-758-B-6	5/8	Ball	6	152
EX-758-9	5/8	7/32 Drill Hole	9	229
EX-759-4	3/4	7/32 Drill Hole	4	102

## Threaded Screw Shank



Part Number	Male Square In.	Male Thread In.	Overall Length		Body Diameter	
			In.	mm	In.	mm
TH-256	1/4	1/4-28	1 5/8	41	7/16	11
TH-376	3/8	1/4-28	1 5/8	41	1/2	13
TH-250	1/4	1/4-24	1 5/8	41	7/16	11
TH-370	3/8	1/4-24	1 3/4	45	1/2	13
TH-252	1/4	1/4-20	1 3/4	45	7/16	11
TH-372	3/8	1/4-20	1 3/4	45	1/2	13
TH-254	1/4	10-32	1 3/4	45	3/8	10

## Morse Taper Shank



Part Number	Male Square In.	Morse Taper	Type of Lock	Overall Length	
				In.	mm
MT-503	1/2	3	Pin	6	152
MT-752	3/4	2	7/32 Drill Hole	6	152
MT-753	3/4	3	7/32 Drill Hole	6	152
MT-754	3/4	4	7/32 Drill Hole	7	178

# 1/4" Male Hex Universal Wrenches, SAE



## 6 Point, Standard and Tension Type – Extension

	Part Number Standard	Part Number Tension	Hex Opening In.	Shank Length (A) In.	Socket Length (B) In.	Socket Diameter (C) In.	Nose End Diameter (D) In.	Clearance Depth (E) In.
	KC-25-3	-	1/4	3	3/4	5/8	3/8	3/8
	KC-25-4	-	1/4	4	3/4	5/8	3/8	3/8
	KC-25-6	KS-25-6	1/4	6	3/4	5/8	3/8	3/8
	KC-25-9	KS-25-9	1/4	9	3/4	5/8	3/8	3/8
	KC-25-12	KS-25-12	1/4	12	3/4	5/8	3/8	3/8
	KC-26-3	-	5/16	3	3/4	5/8	7/16	3/8
	KC-26-4	-	5/16	4	3/4	5/8	7/16	3/8
	KC-26-6	KS-26-6	5/16	6	3/4	5/8	7/16	3/8
	KC-26-9	KS-26-9	5/16	9	3/4	5/8	7/16	3/8
	KC-26-12	KS-26-12	5/16	12	3/4	5/8	7/16	3/8
	KC-100-3	-	5/16	3	3/4	3/4	7/16	5/16
	-	KS-100-6	5/16	6	3/4	3/4	7/16	5/16
	KC-100-12	-	5/16	12	3/4	3/4	7/16	5/16
		KC-27-6	KS-27-6	11/32	6	3/4	5/8	1/2
KC-27-12		-	11/32	12	3/4	5/8	1/2	3/8
-		KS-101-6	11/32	6	3/4	3/4	15/32	5/16
KC-28-3		-	3/8	3	13/16	5/8	9/16	7/16
KC-28-6		KS-28-6	3/8	6	13/16	5/8	9/16	7/16
KC-28-9		KS-28-9	3/8	9	13/16	5/8	9/16	7/16
KC-28-12		KS-28-12	3/8	12	13/16	5/8	9/16	7/16
KC-102-6		KS-102-6	3/8	6	13/16	3/4	9/16	3/8
KC-102-9		-	3/8	9	13/16	3/4	9/16	3/8
KC-29-3		-	7/16	3	7/8	5/8	5/8	1/2
KC-29-6		KS-29-6	7/16	6	7/8	5/8	5/8	1/2
-		KS-29-9	7/16	9	7/8	5/8	5/8	1/2
KC-29-12	-	7/16	12	7/8	5/8	5/8	1/2	
KC-103-3	-	7/16	3	15/16	3/4	5/8	1/2	
KC-103-6	KS-103-6	7/16	6	15/16	3/4	5/8	1/2	
KC-103-9	-	7/16	9	15/16	3/4	5/8	1/2	
KC-30-3	-	1/2	3	7/8	11/16	11/16	1/2	
KC-30-4	-	1/2	4	7/8	11/16	11/16	1/2	
KC-30-6	KS-30-6	1/2	6	7/8	11/16	11/16	1/2	
KC-30-9	KS-30-9	1/2	9	7/8	11/16	11/16	1/2	
-	KS-30-12	1/2	12	7/8	11/16	11/16	1/2	
KC-104-3	-	1/2	3	1	3/4	3/4	9/16	
KC-104-6	KS-104-6	1/2	6	1	3/4	3/4	9/16	
KC-104-9	-	1/2	9	1	3/4	3/4	9/16	




Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

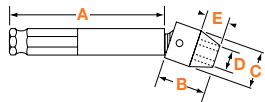
Actual design of universal wrenches may not be exactly like pictures above.

# 1/4" Male Hex Universal Wrenches, SAE










## 6 Point, Standard and Tension Type – Extension (continued)

	Part Number Standard	Part Number Tension	Hex Opening In.	Shank Length (A) In.	Socket Length (B) In.	Socket Diameter (C) In.	Nose End Diameter (D) In.	Clearance Depth (E) In.
 Standard Type	KC-105-3	-	9/16	3	1	13/16	13/16	9/16
	KC-105-4	-	9/16	4	1	13/16	13/16	9/16
 Tension Type	KC-105-6 	KS-105-6	9/16	6	1	13/16	13/16	9/16
	-	KS-105-9	9/16	9	1	13/16	13/16	9/16



# 1/4" Male Hex Universal Wrenches, Metric

## 6 Point, Standard and Tension Type – Extension

	Part Number Standard	Part Number Tension	Hex Opening mm	Shank Length (A) mm	Socket Length (B) mm	Socket Diameter (C) mm	Nose End Diameter (D) mm	Clearance Depth (E) mm
 Standard Type	KC-5-7m-3	-	7	76	19.1	15.9	10.3	9.5
	KC-5-7m-4	-	7	102	19.1	15.9	10.3	9.5
 Tension Type	KC-5-7m-6 	KS-5-7m-6	7	152	19.1	15.9	10.3	9.5
	KC-5-7m-9	KS-5-7m-9	7	229	19.1	15.9	10.3	9.5
	-	KS-5-7m-12	7	305	19.1	15.9	10.3	9.5
	KC-6-8m-3	-	8	76	19.1	19.1	11.1	7.9
	KC-6-8m-4	-	8	102	19.1	19.1	11.1	7.9
	KC-6-8m-6 	KS-6-8m-6	8	152	19.1	19.1	11.1	7.9
	-	KS-6-8m-9	8	229	19.1	19.1	11.1	7.9
	KC-6-9m-6	-	9	152	19.1	19.1	12.7	7.9
	KC-6-10m-3	-	10	76	20.6	19.1	15.1	9.5
	KC-6-10m-4	-	10	102	20.6	19.1	15.1	9.5
	KC-6-10m-6 	KS-6-10m-6	10	152	20.6	19.1	15.1	9.5
	KC-6-10m-9	KS-6-10m-9	10	229	20.6	19.1	15.1	9.5
	KC-6-10m-12	-	10	305	20.6	19.1	15.1	9.5
	KC-7-11m-3	-	11	76	23.8	22.2	15.9	10.3
	KC-7-11m-6 	KS-7-11m-6	11	152	23.8	22.2	15.9	10.3
	KC-7-11m-9	-	11	229	23.8	22.2	15.9	10.3
	KC-7-12m-3	-	12	76	23.8	22.2	17.5	10.3
	KC-7-12m-6	-	12	152	23.8	22.2	17.5	10.3
	KC-7-12m-9	-	12	229	23.8	22.2	17.5	10.3
	KC-7-13m-3	-	13	76	25.4	22.2	17.5	11.9
	KC-7-13m-6 	KS-7-13m-6	13	152	25.4	22.2	17.5	11.9
	KC-7-13m-9	KS-7-13m-9	13	229	25.4	22.2	17.5	11.9
	-	KS-7-13m-12	13	305	25.4	22.2	17.5	11.9

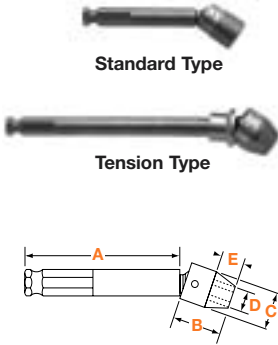
Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

Actual design of universal wrenches may not be exactly like pictures above.

# 7/16" Hex Drive Universal Wrenches, SAE



## 6 Point, Standard and Tension Type – Extension






Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

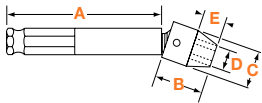
Actual design of universal wrenches may not be exactly like pictures above.

Part Number Standard	Part Number Tension	Hex Opening In.	Shank Length (A) In.	Socket Length (B) In.	Socket Diameter (C) In.	Nose End Diameter (D) In.	Clearance Depth (E) In.
KB-40-3	-	1/4	3	3/4	5/8	3/8	3/8
KB-40-6	KT-40-6	1/4	6	3/4	5/8	3/8	3/8
KB-40-9	KT-40-9	1/4	9	3/4	5/8	3/8	3/8
KB-43-3	-	3/8	3	13/16	5/8	7/32	7/16
KB-43-6	KT-43-6	3/8	6	13/16	5/8	7/32	7/16
-	KT-43-9	3/8	9	13/16	5/8	7/32	7/16
KB-44-3	-	7/16	3	7/8	5/8	5/8	1/2
KB-44-4	-	7/16	4	7/8	5/8	5/8	1/2
KB-44-6	KT-44-6	7/16	6	7/8	5/8	5/8	1/2
-	KT-44-9	7/16	9	7/8	5/8	5/8	1/2
KB-44-12	KT-44-12	7/16	12	7/8	5/8	5/8	1/2
KB-45-3	-	1/2	3	7/8	11/16	11/16	1/2
KB-45-4	-	1/2	4	7/8	11/16	11/16	1/2
KB-45-6	KT-45-6	1/2	6	7/8	11/16	11/16	1/2
KB-45-9	KT-45-9	1/2	9	7/8	11/16	11/16	1/2
KB-45-12	KT-45-12	1/2	12	7/8	11/16	11/16	1/2
KB-104-6	KT-104-6	1/2	6	1	3/4	3/4	9/16
-	KT-104-9	1/2	9	1	3/4	3/4	9/16
KB-202-6	KT-202-6	1/2	6	1	7/8	11/16	15/32
-	KT-202-9	1/2	9	1	7/8	11/16	15/32
KB-317-6	KT-317-6	1/2	6	1	1	11/16	7/16
KB-317-9	KT-317-9	1/2	9	1	1	11/16	7/16
KB-105-3	-	9/16	3	1	13/16	13/16	9/16
KB-105-4	-	9/16	4	1	13/16	13/16	9/16
KB-105-6	KT-105-6	9/16	6	1	13/16	13/16	9/16
-	KT-105-9	9/16	9	1	13/16	13/16	9/16
KB-105-12	KT-105-12	9/16	12	1	13/16	13/16	9/16
KB-203-6	KT-203-6	9/16	6	1 1/16	7/8	3/4	17/32
KB-203-9	KT-203-9	9/16	9	1 1/16	7/8	3/4	17/32
KB-203-12	KT-203-12	9/16	12	1 1/16	7/8	3/4	17/32
-	KT-318-3	9/16	3	1 1/8	1	3/4	9/16

# 7/16" Hex Drive Universal Wrenches, SAE



## 6 Point, Standard and Tension Type – Extension (continued)

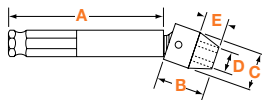
	Part Number Standard	Part Number Tension	Hex Opening In.	Shank Length (A) In.	Socket Length (B) In.	Socket Diameter (C) In.	Nose End Diameter (D) In.	Clearance Depth (E) In.
 Standard Type	KB-318-6	KT-318-6 	9/16	6	1 1/8	1	3/4	9/16
	KB-318-9	KT-318-9	9/16	9	1 1/8	1	3/4	9/16
	KB-318-12	KT-318-12	9/16	12	1 1/8	1	3/4	9/16
 Tension Type	KB-205-3	-	5/8	3	1 1/8	7/8	7/8	19/32
	KB-205-4	-	5/8	4	1 1/8	7/8	7/8	19/32
	KB-205-6	KT-205-6	5/8	6	1 1/8	7/8	7/8	19/32
	-	KT-205-12	5/8	12	1 1/8	7/8	7/8	19/32
	KB-320-4	-	5/8	4	1 3/16	1	27/32	5/8
	KB-320-6	KT-320-6	5/8	6	1 3/16	1	27/32	5/8
	-	KT-320-9	5/8	9	1 3/16	1	27/32	5/8
	-	KT-320-12	5/8	12	1 3/16	1	27/32	5/8
	KB-321-3	-	11/16	3	1 1/4	1	1	11/16
	KB-321-6	KT-321-6	11/16	6	1 1/4	1	1	11/16
	-	KT-321-9	11/16	9	1 1/4	1	1	11/16
	KB-322-3	-	3/4	3	1 1/4	1 1/8	1 1/8	11/16
KB-322-6	KT-322-6	3/4	6	1 1/4	1 1/8	1 1/8	11/16	
KB-322-9	KT-322-9	3/4	9	1 1/4	1 1/8	1 1/8	11/16	
KB-322-12	-	3/4	12	1 1/4	1 1/8	1 1/8	11/16	



# 7/16" Hex Drive Universal Wrenches, Metric

## 6 Point, Standard and Tension Type – Extension

	Part Number Standard	Part Number Tension	Hex Opening mm	Shank Length (A) mm	Socket Length (B) mm	Socket Diameter (C) mm	Nose End Diameter (D) mm	Clearance Depth (E) mm
 Standard Type	KB-6-10m-6	KT-6-10m-6	10	152	20.6	19.1	15.1	9.5
	KB-6-10m-9	KT-6-10m-9	10	229	20.6	19.1	15.1	9.5
	-	KT-6-10m-12	10	305	20.6	19.1	15.1	9.5
 Tension Type	KB-7-11m-3	-	11	76	23.8	22.2	15.9	10.3
	KB-7-11m-6	KT-7-11m-6	11	152	23.8	22.2	15.9	10.3



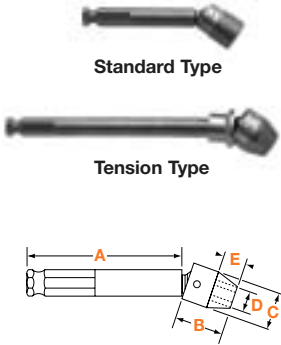
Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

Actual design of universal wrenches may not be exactly like pictures above.

# 7/16" Hex Drive Universal Wrenches, Metric



## 6 Point, Standard and Tension Type – Extension (continued)



Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

Actual design of universal wrenches may not be exactly like pictures above.

Part Number Standard	Part Number Tension	Hex Opening mm	Shank Length (A) mm	Socket Length (B) mm	Socket Diameter (C) mm	Nose End Diameter (D) mm	Clearance Depth (E) mm
KB-7-12m-6	-	12	152	23.8	22.2	17.5	10.3
KB-7-12m-9	-	12	229	23.8	22.2	17.5	10.3
KB-7-13m-3	-	13	76	25.4	22.2	17.5	11.9
KB-7-13m-4	-	13	102	25.4	22.2	17.5	11.9
KB-7-13m-6	KT-7-13m-6	13	152	25.4	22.2	17.5	11.9
KB-7-13m-9	KT-7-13m-9	13	229	25.4	22.2	17.5	11.9
KB-7-13m-12	-	13	305	25.4	22.2	17.5	11.9
KB-7-14m-3	-	14	76	27.0	22.2	19.1	13.5
KB-7-14m-6	KT-7-14m-6	14	152	27.0	22.2	19.1	13.5
KB-7-14m-9	-	14	229	27.0	22.2	19.1	14.3
-	KT-7-14m-12	14	305	27.0	22.2	19.1	14.3
-	KT-7-15m-6	15	152	27.0	22.2	19.1	14.3
KB-8-15m-6	KT-8-15m-6	15	152	28.6	25.4	19.8	14.3
KB-8-15m-9	KT-8-15m-9	15	229	28.6	25.4	19.8	14.3
KB-8-15m-12	KT-8-15m-12	15	305	28.6	25.4	19.8	14.3
KB-8-16m-3	-	16	76	30.2	25.4	21.4	15.9
KB-8-16m-6	KT-8-16m-6	16	152	30.2	25.4	21.4	15.9
KB-8-16m-9	KT-8-16m-9	16	229	30.2	25.4	21.4	15.9
KB-8-17m-12	KT-8-16m-12	16	305	30.2	25.4	21.4	15.9
KB-8-17m-3	-	17	76	31.8	25.4	25.4	17.5
KB-8-17m-6	KT-8-17m-6	17	152	31.8	25.4	25.4	17.5
-	KT-8-13m-9	17	229	31.8	25.4	25.4	17.5
KB-8-17m-12	KT-8-13m-12	17	305	31.8	25.4	25.4	17.5
KB-8-18m-3	-	18	76	31.8	25.4	25.4	17.5
KB-8-18m-6	KT-8-18m-6	18	152	31.8	25.4	25.4	17.5
KB-8-18m-9	KT-8-18m-9	18	229	31.8	25.4	25.4	17.5
KB-8-18m-12	KT-8-18m-12	18	305	31.8	25.4	25.4	17.5
KB-10-19m-6	KT-10-19m-6	19	152	34.9	31.8	26.2	16.3





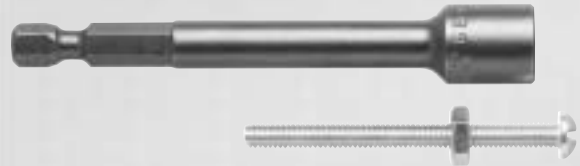
# APEX® Solutions



## **When can I use a universal adapter?**

A universal adapter gives all of your sockets the versatility of a universal wrench. Universal adapters must not be used with impact drivers.

(See page 85.)



## **Does Apex offer bolt clearance nutsetters?**

Bolt clearance nutsetters allow the bolt or stud to recess into the nutsetter body as the nut is driven down. Bolt clearance nutsetters are prefixed with the numbers 6B-.

(See page 62.)

## **Does Apex offer Torx® sockets?**

Like Torx® screws, Torx® bolts are becoming commonplace in a variety of assembly applications.



Apex offers a wide variety of Torx® sockets.

(See page 84.)

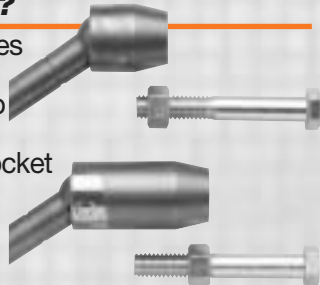
## **What is the advantage of surface drive sockets?**

Use surface drive sockets if tools are still running when they engage the fasteners (such as on this multi-spindle machine). They're easier to engage and will result in less tool wear.



## **Does Apex universal wrenches with longer sockets?**

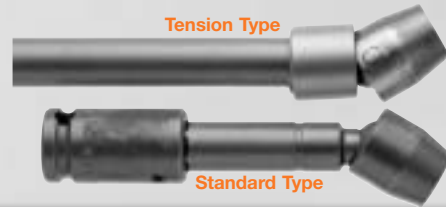
Universal wrenches are available with a longer socket to allow a stud to recess into the socket opening.



(Check with your Apex representative for details.)

### **What is the benefit of a tension sleeve?**

A universal wrench with a tension sleeve holds the socket at the desired driving angle while aligning the tool and fastener. Other universal wrench sockets can “flop” making engagement difficult.



### **What types of magnetic sockets does Apex offer?**

In addition to a fixed magnet socket (center), Apex offers spring-loaded (left) and cylindrical (right) magnet styles that allow the bolt to recess into the socket body as the nut is driven down. Fixed magnet sockets are designated by a M- part number prefix, spring-loaded by MB- prefix and cylindrical by a SM- prefix.



### **Does Apex offer thin wall sockets?**

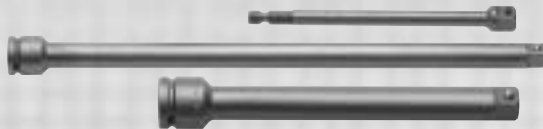
Thin wall sockets accommodate countersunk or limited clearance nut or bolt locations. Many of these sockets have a shouldered body design that can fit in tight quarters.



### **Does Apex offer a complete line of extensions?**

Apex features a wide selection of extension lengths, styles and sizes.

*(See the Table of Contents for a complete listing.)*



### **Does Apex offer mar resistant bits and sockets?**

Apex can nylon coat just about any of our bits or sockets. Nylon offers excellent mar resistance for assemblies that have painted, varnished or chromed surfaces. Nylon also offers some safety benefits by covering tool junctions. Contact your Apex distributor or representative for more information or for a quote.



### **Can I use my extensions, adapters and universals with impact drivers?**

Quality design and construction give Apex universal wrenches a long service life and durability. Remember, universal wrenches, extensions and adapters are not to be used with impact drivers.



### **Does Apex have a socket for off angle driving?**

Apex's wobble sockets are ideal for applications where misalignment is a problem. The unique “rounded square” within the female square of the socket allows for a 10 degree operating angle. Used extensively on automotive chassis assemblies. Plus a surface drive allows for an even better engagement.

*(See pages 100 & 123.)*



## Impact Sockets



Apex industrial grade impact sockets are available in a wide range of lengths and wall thicknesses, and with single or double hex openings. Square openings are available in select sizes.



## Fixed Magnetic Sockets



Magnetic sockets hold the fastener in driving position, even when working straight down. Time-wasting motions are eliminated when starting fasteners or working in hard-to-reach areas. These sockets are identified with a M- prefix.



## Magnetic Bolt Clearance Sockets



As the nut is run down, a spring-loaded or hollow cylinder magnet allows the bolt or stud to retract into the socket body. Nuts are held firmly in the socket. These sockets are identified with a MB- prefix.



## Surface Drive Sockets



Large openings on the six corners of the opening create a “floating” action that allows the socket to slip quickly and easily onto the nut or bolt. Ideal for compensating for imperfect alignment between the tool and fastener. Not generally recommended for impact use. These sockets are identified with a SF- prefix.



## Fast Lead Sockets



Designed for power tool and multiple spindle power tools, a specially tapered opening provides complete engagement with the nut almost instantly upon engagement. This speeds productivity and extends tool life. Engagement is possible without starting and stopping the tool for each nut. These sockets are identified with a FL- prefix.



## Special Sockets

You'll find Spline, Torx®, tap holding, Budd Wheel, grease fitting and other sockets for special applications.



## Extensions and Adapters

Apex provides the accessories needed to adapt sockets to nearly every tool and application.



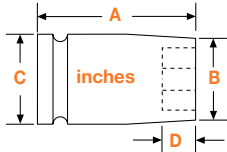
## Square Drive Universal Wrenches

Hard-to-reach areas are no problem with Apex's wide range of universal and extension universal wrenches.

# 1/4" Square Drive Sockets, SAE



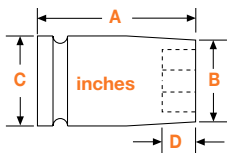
## Standard Length, 6 Point and Double Hex



Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
1105	-	5/32	7/8	1/4	1/2	3/32
1106	1106-D	3/16	7/8	5/16	1/2	3/32
1107	1107-D	7/32	7/8	3/8	1/2	5/32
1108	1108-D	1/4	7/8	3/8	1/2	5/32
X-1108*	-	1/4	7/8	3/8	1/2	5/32
1109	1109-D	9/32	1	7/16	1/2	3/16
1110	1110-D	5/16	1	1/2	1/2	3/16
X-1110*	-	5/16	1	1/2	1/2	3/16
HA-510	-	5/16	7/8	7/16	7/16	3/16
1111	1111-D	11/32	1	1/2	1/2	3/16
1112	1112-D	3/8	1	9/16	9/16	1/4
1113	1113-D	13/32	1	5/8	5/8	1/4
1114	1114-D	7/16	1	5/8	5/8	9/32
1115	-	15/32	1	11/16	11/16	9/32
1116	1116-D	1/2	1	11/16	11/16	11/32
1117	1117-D	17/32	1	3/4	3/4	11/32
1118	1118-D	9/16	1	13/16	13/16	7/16
1119	1119-D	19/32	1	7/8	7/8	7/16
1120	1120-D	5/8	1	7/8	7/8	7/16

\* Parts have a harder heat treat.

## Long Length, 6 Point and Double Hex

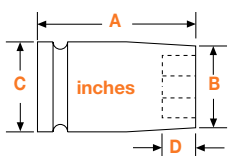


Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
1206	1206-D	3/16	1 3/4	5/16	1/2	3/32
1207	1207-D	7/32	1 3/4	3/8	1/2	5/32
1208	1208-D	1/4	1 3/4	3/8	1/2	5/32
1209	1209-D	9/32	1 3/4	7/16	1/2	3/16
1210	1210-D	5/16	1 3/4	1/2	1/2	3/16
1211	1211-D	11/32	1 3/4	1/2	1/2	3/16
1212	1212-D	3/8	1 3/4	9/16	9/16	1/4
1213	-	13/32	1 3/4	5/8	5/8	1/4
1214	1214-D	7/16	1 3/4	5/8	5/8	9/32
1215	-	15/32	1 3/4	11/16	11/16	9/32
1216	1216-D	1/2	1 3/4	11/16	11/16	11/32
1217	-	17/32	1 3/4	3/4	3/4	11/32
1218	1218-D	9/16	1 3/4	13/16	13/16	7/16
1220	-	5/8	2	7/8	7/8	7/16

# 1/4" Square Drive Sockets, SAE

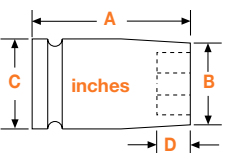


## Extra Long Length, 6 Point and Double Hex



Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
1308	1308-D	1/4	3	3/8	1/2	5/32
1310	1310-D	5/16	3	1/2	1/2	3/16
1311	1311-D	11/32	3	1/2	1/2	3/16
1312	1312-D	3/8	3	9/16	9/16	1/4
1313	1313-D	13/32	3	9/16	9/16	1/4
1314	1314-D	7/16	3	5/8	5/8	9/32
1316	1316-D	1/2	3	11/16	11/16	11/32
1318	-	9/16	3	13/16	13/16	7/16
1320	1320-D	5/8	3	7/8	7/8	7/16

## Magnetic, Standard Length, 6 Point



Part Number Fixed Magnet	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
M-1105	5/32	7/8	5/16	1/2	3/32
M-1106	3/16	7/8	5/16	1/2	3/32
M-1107	7/32	7/8	3/8	1/2	5/32
MX-1108*	1/4	7/8	3/8	1/2	5/32
M-1108-E*	1/4	7/8	3/8	1/2	5/32
MX-1109*	9/32	1	7/16	1/2	3/16
MHA-510	5/16	7/8	7/16	7/16	1/8
M-1110	5/16	1	1/2	1/2	3/16
MX-1110*	5/16	1	1/2	1/2	3/16
MX-1111	11/32	1	1/2	1/2	3/16
MHA-510	5/16	7/8	7/16	7/16	3/16
M-1112	3/8	1	9/16	9/16	1/4
MX-1112*	3/8	1	9/16	9/16	1/4
M-1114	7/16	1	5/8	5/8	9/32
M-1116	1/2	1	11/16	11/16	11/32
M-1118	9/16	1	11/16	11/16	11/32
M-1120	5/8	1	11/16	11/16	11/32

\*Parts have a harder heat treat; MX-1108-E has no lead-in chamfer.

# 1/4" Square Drive Sockets, SAE

## Magnetic, Long and Extra Long Length, 6 Point



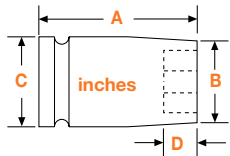
Part No. Fixed Magnet	Part No. Magnetic Bolt Clearance	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
-	MB-1206	3/16	1 3/4	5/16	1/2	5/32
M-1208	MB-1208	1/4	1 3/4	3/8	1/2	5/32
-	MB-1308	1/4	3	3/8	1/2	5/32
M-1209	MB-1209	9/32	1 3/4	7/16	1/2	3/16
M-1210	MB-1210	5/16	1 3/4	1/2	1/2	3/16

(Continued on next page.)

Refer to Page iv for description of Rapid Select.

# 1/4" Square Drive Sockets, SAE

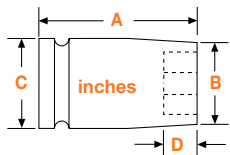
## Magnetic, Long Length and Extra Long, 6 Point



Part No. Fixed Magnet	Part No. Magnetic Bolt Clearance	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
M-1211	MB-1211	11/32	1 3/4	1/2	1/2	3/16
-	MB-1311	11/32	3	1/2	1/2	3/16
M-1212	MB-1212	3/8	1 3/4	9/16	9/16	1/4
-	MB-1312	3/8	3	9/16	9/16	1/4
M-1214	MB-1214	7/16	1 3/4	5/8	5/8	9/32
-	MB-1314	7/16	3	5/8	5/8	9/32
M-1216	MB-1216	1/2	1 3/4	11/16	11/16	11/32
-	MB-1218	9/16	1 3/4	13/16	13/16	7/16

\* For explanation of magnets, see Tool Tip on page 120.

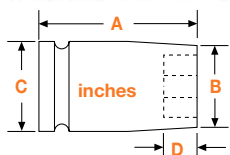
## Surface Drive and Fast Lead, Standard and Long Length



Part No. Surface Drive	Part No. Number Fast Lead	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
-	FL-1108	1/4	7/8	3/8	1/2	5/32
-	FL-1109	9/32	7/8	3/8	1/2	5/32
-	FL-1110	5/16	1	1/2	1/2	3/16
SF-1112	FL-1112	3/8	1	9/16	9/16	1/4
SF-1212	FL-1212	3/8	1 3/4	9/16	9/16	1/4
SF-1114	FL-1114	7/16	1	5/8	5/8	9/32
-	FL-1214	7/16	1 3/4	5/8	5/8	9/32
SF-1116	FL-1116	1/2	1	11/16	11/16	11/32
-	FL-1216	1/2	1 3/4	11/16	11/16	11/32
SF-1118	-	9/16	1	13/16	13/16	7/16

# 1/4" Square Drive Sockets For SAE Sheet Metal Screws

## 6 Point and 6 Point Magnetic, For Predrilled Holes\*




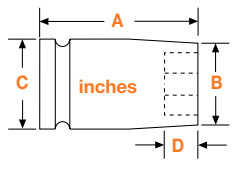
Part Number 6 Point	Part Number Magnetic	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
1E06	M1E06	3/16	7/8	5/16	1/2	3/32
1E07	M1E07	7/32	7/8	3/8	1/2	5/32
1E08	M1E08	1/4	7/8	3/8	1/2	5/32
1E09	M1E09	9/32	7/8	7/16	1/2	3/16
1E10	M1E10	5/16	7/8	1/2	1/2	3/16
1E11	M1E11	11/32	1	1/2	1/2	3/16
1E12	M1E12	3/8	1	5/8	5/8	1/4
1E14	M1E14	7/16	1	11/16	11/16	9/32
1E16	M1E16	1/2	1	11/16	11/16	11/32

\*Sockets for predrilled holes are intermediate hardness; sockets for self-drilling and tapping screws are maximum hardness.

# 1/4" Square Drive Sockets For SAE Sheet Metal Screws



6 Point and 6 Point Magnetic, for Self-Drilling and Tapping Screws\*


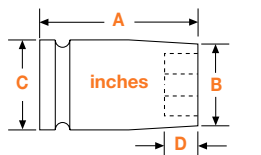



Part Number 6 Point	Part Number Magnetic	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
1P06	M1P06	3/16	7/8	5/16	1/2	3/32
1P07	M1P07	7/32	7/8	3/8	1/2	5/32
1P08	M1P08	1/4	7/8	7/16	1/2	5/32
	M1P09	9/32	7/8	1/2	1/2	3/16
1P10	M1P10	5/16	7/8	1/2	1/2	3/16
1P11	M1P11	11/32	1	1/2	1/2	3/16
1P12	M1P12	3/8	1	5/8	5/8	1/4
1P14	M1P14	7/16	1	11/16	11/16	9/32
1P16	M1P16	1/2	1	11/16	11/16	11/32

\*Sockets for predrilled holes are intermediate hardness; sockets for self-drilling and tapping screws are maximum hardness.

# 1/4" Square Drive Sockets For SAE Square Nuts


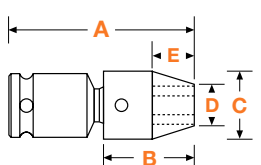
## Single Square and Double Square

Part Number Square	Part No. Double Square	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
1608	1608-D	1/4	1	1/2	1/2	3/16
1609	1609-D	9/32	1	9/16	9/16	3/16
1610	1610-D	5/16	1	5/8	5/8	1/4
1611	-	11/32	1	3/4	3/4	1/4
1612	1612-D	3/8	1	3/4	3/4	1/4
1614	1614-D	7/16	1	13/16	13/16	9/32

# 1/4" Square Drive Universal Wrenches, SAE

## 6 Point and Double Hex

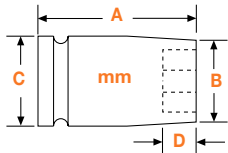
Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Socket Length (B)	Socket Diameter (C)	Nose End Diameter (D)	Clearance Depth (E)
SA-25	SA-25-D	1/4	1 7/32	3/4	5/8	3/8	3/8
SA-26	SA-26-D	5/16	1 17/32	3/4	5/8	7/16	3/8
SA-28	SA-28-D	3/8	1 19/32	13/16	5/8	17/32	7/16
SA-29	SA-29-D	7/16	1 21/32	7/8	5/8	5/8	1/2
SA-30	SA-30-D	1/2	1 21/32	7/8	11/16	11/16	1/2
SA-65	-	9/16	1 21/32	7/8	11/16	11/16	1/2

Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.



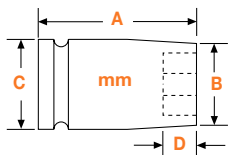
# 1/4" Square Drive Sockets, Metric

## Standard Length, 6 Point and Double Hex



Part Number 6 Point	Part Number Double Hex	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
3.5mm11	-	3.5	22.2	6.4	12.7	2.4
4mm11	-	4	22.2	6.4	12.7	2.4
4.5mm11	-	4.5	22.2	7.9	12.7	2.4
5mm11	-	5	22.2	8.7	12.7	3.9
5.5mm11	-	5.5	22.2	9.5	12.7	3.9
6mm11	6mm11-D	6	22.2	9.5	12.7	3.9
7mm11	7mm11-D	7	22.2	11.1	12.7	4.8
8mm11	8mm11-D	8	25.4	12.7	12.7	4.8
9mm11	9mm11-D	9	25.4	14.3	14.3	4.8
10mm11	10mm11-D	10	25.4	15.9	15.9	6.4
OS-10mm11	-	10	25.4	14.3	14.3	6.4
11mm11	11mm11-D	11	25.4	15.9	15.9	7.2
12mm11	12mm11-D	12	25.4	17.5	17.5	7.2
13mm11	13mm11-D	13	25.4	19.1	19.1	8.7
14mm11	14mm11-D	14	25.4	20.6	20.6	11.1
15mm11	15mm11-D	15	25.4	22.2	22.2	11.1
16mm11	-	16	25.4	22.2	22.2	11.1

## Long Length, 6 Point and Double Hex

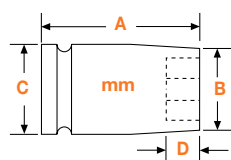


Part Number 6 Point	Part Number Double Hex	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
5mm21	-	5	44.4	8.7	12.7	3.9
5.5mm21	-	5.5	44.4	9.5	12.7	3.9
6mm21	-	6	44.4	9.5	12.7	3.9
7mm21	7mm21-D	7	44.4	11.1	12.7	4.8
8mm21	8mm21-D	8	44.4	12.7	12.7	4.8
9mm21	9mm21-D	9	44.4	14.3	14.3	4.8
10mm21	10mm21-D	10	44.4	15.9	15.9	6.4
11mm21	11mm21-D	11	44.4	15.9	15.9	7.2
12mm21	12mm21-D	12	44.4	17.5	17.5	7.2
13mm21	13mm21-D	13	44.4	19.1	19.1	8.7
14mm21	-	14	44.4	20.6	20.6	11.1
15mm21	15mm21-D	15	50.8	22.2	22.2	11.1
16mm21	-	16	50.8	22.2	22.2	11.1

# 1/4" Square Drive Sockets, Metric

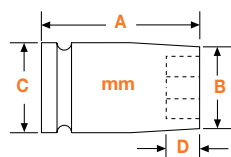


## Magnetic, Standard Length, 6 Point



Part Number Fixed Magnet	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
M-5mm11	5	22.2	8.7	12.7	3.9
M-5.5mm11	5.5	22.2	9.5	12.7	3.9
M-6mm11	6	22.2	9.5	12.7	3.9
M-7mm11	7	22.2	11.9	12.7	4.8
M-8mm11	8	25.4	12.7	12.7	4.8
M-9mm11	9	25.4	14.3	14.3	4.8
M-10mm11	10	25.4	15.9	15.9	6.4
M-11mm11	11	25.4	15.9	15.9	7.2
M-12mm11	12	25.4	17.5	17.5	7.2
M-13mm11	13	25.4	19.1	19.1	8.7
M-14mm11	14	25.4	20.6	20.6	11.1
M-15mm11	15	25.4	22.2	22.2	11.1

## Magnetic, Long Length, 6 Point

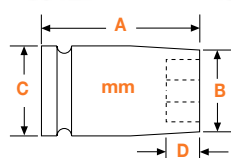


Part No. Fixed Magnet	Part No. Magnetic Bolt Clearance	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
M-5mm21	MB-5mm21	5	44.4	8.7	12.7	3.9
-	MB-5.5mm21	5.5	44.4	9.5	12.7	3.9
M-6mm21	MB-6mm21	6	44.4	9.5	12.7	3.9
M-7mm21	MB-7mm21	7	44.4	11.9	12.7	4.8
M-8mm21	MB-8mm21	8	44.4	12.7	12.7	4.8
M-9mm21	MB-9mm21	9	44.4	14.3	14.3	4.8
M-10mm21	MB-10mm21	10	44.4	15.9	15.9	6.4
-	**OSMB-10mm21	10	44.4	14.2	14.2	6.4
M-11mm21	MB-11mm21	11	44.4	15.9	15.9	7.2
M-12mm21	MB-12mm21	12	44.4	17.5	17.5	7.2
M-13mm21	MB-13mm21	13	44.4	19.1	19.1	8.7
M-14mm21	MB-14mm21	14	44.4	20.6	20.6	11.1
-	MB-15mm21	15	50.8	22.2	22.2	11.1
-	MB-16mm21	16	50.8	22.2	22.2	11.1

\* For an explanation of magnets, see Apex Solutions Page 75.

\*\* No ring groove.

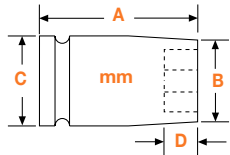
## Surface Drive, Standard and Long Length



Part Number Surface Drive	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-8mm11	8	25.4	12.7	12.7	4.7
SF-10mm11	10	25.4	15.9	15.9	6.4
SF-10mm21	10	44.4	15.9	15.9	6.4
SF-11mm11	11	25.4	15.9	15.9	7.2
SF-11mm21	11	44.4	15.9	15.9	7.2
SF-12mm21	11	44.4	17.5	15.9	7.2
SF-13mm11	13	25.4	19.1	19.1	8.7
SF-13mm21	13	44.4	19.1	19.1	8.7
SF-14mm21	14	44.4	20.6	20.6	11.1
SF-15mm11	15	25.4	22.2	22.2	11.1

# 1/4" Square Drive Sockets For Metric Sheet Metal Screws

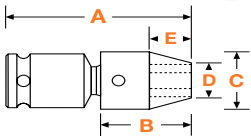
## 6 Point and 6 Point Magnetic



Part Number 6 Point	Part Number Magnetic	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
3.5mmE1	M-3.5mmE1	3.5	22.2	6.4	12.7	2.4
4mmE1	M-4mmE1	4	22.2	6.4	12.7	2.4
4.5mmE1	M-4.5mmE1	4.5	22.2	7.9	12.7	2.4
5mm11	M-5mmE1	5	22.2	8.7	12.7	3.9
5.5mmE1	M-5.5mmE1	5.5	22.2	9.5	12.7	3.9
6mmE1	M-6mmE1	6	22.2	9.5	12.7	3.9
7mmE1	M-7mmE1	7	22.2	11.1	12.7	4.8
-	MR-7mmE1*	7	22.2	11.1	12.7	4.8
8mmE1	M-8mmE1	8	25.4	12.7	12.7	4.8
9mmE1	M-9mmE1	9	25.4	14.3	14.3	4.8
10mmE1	M-10mmE1	10	25.4	15.9	15.9	6.4
11mmE1	M-11mmE1	11	25.4	17.5	17.5	7.2
12mmE1	M-12mmE1	12	25.4	17.5	17.5	7.2
13mmE1	M-13mmE1	13	25.4	19.1	19.1	8.7

\*MR-7mmE1 has stronger magnet

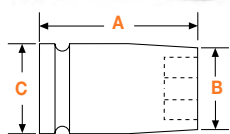
# 1/4" Square Drive Universal Wrenches, Metric 6 Point



Part Number 6 Point	Hex Opening mm	Overall Length (A)	Socket Length (B)	Socket Diameter (C)	Nose End Diameter (D)	Opening Depth (E)
SA-15-6m	6	31	19.1	15.9	9.5	9.5
SA-15-7m	7	31	19.1	15.9	10.3	9.5
SA-16-8m	8	38	19.1	19.1	11.1	7.9
SA-16-10m	10	40	20.6	19.1	15.1	9.5

Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

# 1/4" Square Drive Sockets For Spline Fasteners Standard and Long Length



Apex spline sockets conform to military specifications MS-37787 and MIL-W-8982C.

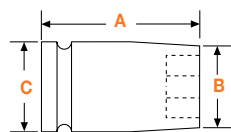
Part Number	Spline Size	Nominal Size	Overall Length (A)		Diameter Nose End (B)		Diameter Drive End (C)	
			In.	mm	In.	mm	In.	mm
CMS-1407	7	7/32	7/8	22	21/64	8	7/16	11
CMS-1507	7	7/32	2	51	21/64	8	7/16	11
CMS-1408	8	1/4	7/8	22	3/8	10	7/16	11
CMS-1508	8	1/4	2	51	3/8	10	7/16	11
CMS-1409	9	9/32	7/8	22	7/16	11	7/16	11
CMS-1509	9	9/32	2	51	7/16	11	7/16	11
CMS-1410	10	5/16	7/8	22	29/64	12	29/64	12
CMS-1510	10	5/16	2	51	29/64	12	29/64	12
CMS-1412	12	3/8	7/8	22	17/32	14	17/32	14
CMS-1414	14	7/16	1	25	39/64	16	39/64	16

Refer to Page iv for description of Rapid Select.

# 1/4" Square Drive Torx® Sockets

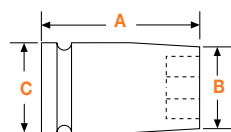


## For External Torx Screws



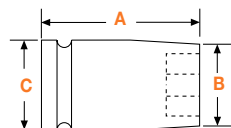
Part Number	Driver Size	Overall Length (A)		Nose End Diameter (B)		Drive End Diameter (C)	
		In.	mm	In.	mm	In.	mm
TX-1104	E-4	1	25.4	1/4	6.4	1/2	12.7
TX-1105	E-5	1	25.4	1/4	6.4	1/2	12.7
TX-1106	E-6	1	25.4	5/16	7.9	1/2	12.7
TX-1108	E-8	1	25.4	3/8	9.5	1/2	12.7
TX-1110	E-10	1	25.4	9/16	14.3	9/16	14.3
TX-1112	E-12	1	25.4	5/8	15.9	5/8	15.9

## For External Torx Screws, Thin Wall



Part Number	Driver Size	Overall Length (A)		Nose End Diameter (B)		Drive End Diameter (C)	
		In.	mm	In.	mm	In.	mm
TX-1404	E-4	1	25.4	1/4	6.4	1/2	12.7
TX-1405	E-5	1	25.4	1/4	6.4	1/2	12.7
TX-1406	E-6	1	25.4	5/16	7.9	1/2	12.7
TX-1407	E-7	1	25.4	5/16	7.9	1/2	12.7
TX-1408	E-8	1	25.4	3/8	9.5	1/2	12.7
TX-1410	E-10	1	25.4	1/2	12.7	1/2	12.7
TX-1411	E-11	1	25.4	1/2	12.7	1/2	12.7
TX-1412	E-12	1	25.4	9/16	14.3	9/16	14.3

## For Torx Nuts




Part Number	Driver Size	Overall Length (A)		Nose End Diameter (B)		Drive End Diameter (C)	
		In.	mm	In.	mm	In.	mm
TX-1E04	E-4	7/8	22.2	5/16	7.9	1/2	12.7
TX-1E05	E-5	7/8	22.2	3/8	9.5	1/2	12.7
TX-1E06	E-6	7/8	22.2	7/16	11.1	1/2	12.7
TX-1E08	E-8	7/8	22.2	1/2	12.7	1/2	12.7
TX-1E10	E-10	1	25.4	9/16	14.3	9/16	14.3

Sockets for Torx® nuts have a larger lead-in chamfer than sockets for external Torx® screws. Most Torx® sockets have a DIN (pin and o-ring) groove.

# 1/4" Square Drive Extensions


7/8" to 14" (22mm to 356mm) Length



Part Number	Male Square In.	Type of Lock	Overall Length	
			In.	mm
EX-252	1/4	Pin	7/8	22
EX-252-B	1/4	Ball	1	25
EX-255-2	1/4	Pin	2	51
EX-255-B-2	1/4	Ball	2	51
EX-255-3	1/4	Pin	3	76
EX-255-4	1/4	Pin	4	102
EX-255-B-4	1/4	Ball	4	102
EX-255-6	1/4	Pin	6	152
EX-255-B-6	1/4	Ball	6	152
EX-255-8	1/4	Pin	8	203
EX-255-10	1/4	Pin	10	254
EX-255-12	1/4	Pin	12	305
EX-255-14	1/4	Pin	14	356

# 1/4" Square Drive Adapters


1/4" to 3/8" Male Square



Part Number	Male Square In.	Female Square In.	Type of Lock	Overall Length	
				In.	mm
EX-372	3/8	1/4	Pin	1	0
EX-372-B	3/8	1/4	Ball	1	25

# 1/4" Square Drive Universal Adapters

Male Square to Female Square



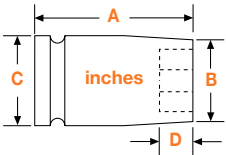
Part Number	Male Sq. In.	Female Sq. In.	Type of Lock	Overall Length		Largest Diameter	
				In.	mm	In.	mm
MF-25	1/4	1/4	Pin	1 5/8	41	5/8	16
MF-25B	1/4	1/4	Ball	1 5/8	41	5/8	16

*Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.*

# 3/8" Square Drive Sockets, SAE



## 6 Point and Double Hex, Short and Standard Length



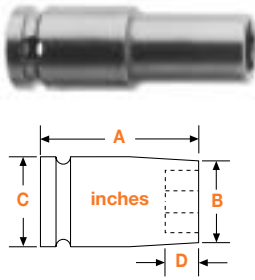
Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
3108	3108-D	1/4	1 1/4	7/16	3/4	5/32
3109	3109-D	9/32	1 1/4	7/16	3/4	3/16
3010	-	5/16	7/8	1/2	3/4	3/16
3110	3110-D	5/16	1 1/4	1/2	3/4	3/16
3111	3111-D	11/32	1 1/4	1/2	3/4	3/16
3012	3012-D	3/8	7/8	19/32	3/4	3/16
3112	3112-D	3/8	1 1/4	19/32	3/4	1/4
3113	3113-D	13/32	1 1/2	11/16	3/4	1/4
3014	3014-D	7/16	7/8	11/16	3/4	9/32
3114	3114-D	7/16	1 1/2	11/16	3/4	9/32
SW-604	SW-604-D	7/16	1 1/2	21/32	3/4	9/32
3115	-	15/32	1 1/2	3/4	3/4	9/32
3016	3016-D	1/2	7/8	13/16	13/16	5/16
3116	3116-D	1/2	1 1/2	13/16	13/16	11/32
HC-3816	HC-3816-D	1/2	1 1/2	11/16	11/16	11/32
3117	3117-D	17/32	1 1/2	13/16	13/16	11/32
3018	3018-D	9/16	7/8	7/8	7/8	5/16
3118	3118-D	9/16	1 1/2	7/8	7/8	7/16
SW-343	SW-343-D	9/16	1 1/2	3/4	3/4	7/16
SW-605	SW-605-D	9/16	1 1/2	3/4	13/16	7/16
3119	-	19/32	1 1/2	7/8	7/8	7/16
3020	3020-D	5/8	1	15/16	15/16	7/16
3120	3120-D	5/8	1 1/2	15/16	15/16	7/16
HC-3520*	-	5/8	2 3/8	7/8	7/8	7/32
3121	3121-D	21/32	1 1/2	15/16	15/16	7/16
3022	3022-D	11/16	1	1	1	7/16
3122	3122-D	11/16	1 1/2	1	1	7/16
3024	3024-D	3/4	1	1 1/16	1 1/16	7/16
3124	3124-D	3/4	1 1/2	1 1/16	1 1/16	15/32
3026	3026-D	13/16	1	1 1/8	1 1/8	7/16
3126	-	13/16	1 1/2	1 1/8	1 1/8	7/16
3028	3028-D	7/8	1	1 1/4	1 1/4	7/16

\*HC-3520 is spark plug socket.

# 3/8" Square Drive Sockets, SAE



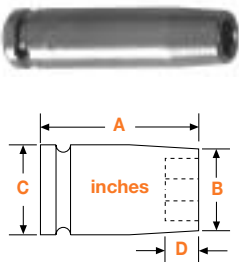
## 6 Point and Double Hex, Thin Wall, Standard Length



Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
3408	3408-D	1/4	1 1/4	7/16	3/4	5/32
3409	-	9/32	1 1/4	7/16	3/4	3/16
3410	3410-D	5/16	1 1/4	1/2	3/4	3/16
OS-3410*	-	5/16	1 1/4	7/16	19/32	3/16
3411	-	11/32	1 1/4	1/2	3/4	3/16
3412	3412-D	3/8	1 1/2	19/32	3/4	1/4
3414	3414-D	7/16	1 1/2	5/8	3/4	9/32
3416	3416-D	1/2	1 1/2	3/4	3/4	11/32
3418	3418-D	9/16	1 1/2	25/32	13/16	7/16
3420	3420-D	5/8	1 1/2	7/8	7/8	7/16
3422	3422-D	11/16	1 1/2	15/16	15/16	7/16
3424	3424-D	3/4	1 1/2	1	1	15/32
3426	3426-D	13/16	1 1/2	1 1/8	1 1/8	17/32
3428	3428-D	7/8	1 1/2	1 3/16	1 1/4	9/16
3430	3430-D	15/16	1 1/2	1 5/16	1 5/16	5/8
3432	3432-D	1	1 1/2	1 3/8	1 3/8	5/8
3434	3434-D	1 1/16	1 1/2	1 1/2	1 1/2	11/16

\*No ring groove.

## 6 Point and Double Hex, Long and Extra Long Length



Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
3208	3208-D	1/4	2	7/16	3/4	5/32
3308	-	1/4	3 1/2	7/16	3/4	5/32
3209	3209-D	9/32	2	7/16	3/4	3/16
3210	3210-D	5/16	2	1/2	3/4	3/16
3310	3310-D	5/16	3 1/2	1/2	3/4	3/16
OS-3310-D*	-	5/16	3 1/2	15/32	5/8	3/16
3211	3211-D	11/32	2	1/2	3/4	3/16
3311	-	11/32	3 1/2	1/2	3/4	3/16
3212	3212-D	3/8	2	19/32	3/4	1/4
3312	3312-D	3/8	3 1/2	19/32	3/4	1/4
3214	3214-D	7/16	2	11/16	3/4	9/32
3314	3314-D	7/16	3 1/2	11/16	3/4	9/32
3216	3216-D	1/2	2	13/16	13/16	11/32
3316	3316-D	1/2	3 1/2	13/16	13/16	11/32
3218	3218-D	9/16	2	7/8	7/8	7/16
3318	3318-D	9/16	3 1/2	7/8	7/8	7/16
3220	3220-D	5/8	2	15/16	15/16	7/16
3320	3320-D	5/8	3 1/2	15/16	15/16	7/16
3222	3222-D	11/16	2	1	1	7/16
3322	3322-D	11/16	3 1/2	1	1	7/16
3224	3224-D	3/4	2	1 1/16	1 1/16	15/32
3324	3324-D	3/4	3 1/2	1 1/16	1 1/16	15/32
3226	3226-D	13/16	2	1 1/4	1 1/4	17/32
3326	3326-D	13/16	3 1/2	1 1/4	1 1/4	17/32
3228	3228-D	7/8	2	1 1/4	1 1/4	9/16
3328	3328-D	7/8	3 1/2	1 1/4	1 1/4	9/16

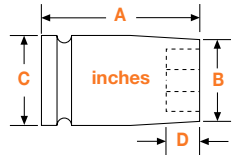
\*No ring groove.

Refer to Page iv for description of Rapid Select.

# 3/8" Square Drive Sockets, SAE

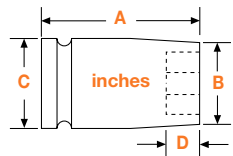


## 6 Point and Double Hex, Thin Wall, Long Length



Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
3510	-	5/16	2	1/2	3/4	3/16
3511	-	11/32	2	1/2	3/4	3/16
3512	3512-D	3/8	2	19/32	3/4	1/4
3513	-	3/8	2	5/8	3/4	1/4
3514	3514-D	7/16	2	5/8	3/4	9/32
3516	3516-D	1/2	2	3/4	3/4	11/32
3518	3518-D	9/16	2	25/32	13/16	7/16
3522	3522-D	11/16	2	15/16	15/16	7/16
3524	3524-D	3/4	2	1	1	15/32
3530	3530-D	15/16	2	1 5/16	1 5/16	5/8
3532	3532-D	1	2	1 3/8	1 3/8	5/8
3534	-	1 1/16	2	1 1/2	1 1/2	11/16

## Magnetic, Short and Standard Length



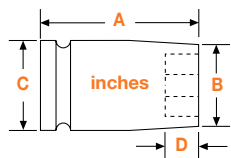
Part Number Fixed Magnet	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
M-3108	1/4	1 1/4	7/16	3/4	5/32
M-3109	9/32	1 1/4	7/16	3/4	3/16
M-3110	5/16	1 1/4	1/2	3/4	3/16
M-3111	11/32	1 1/4	1/2	3/4	3/16
M-3012	3/8	7/8	19/32	3/4	3/16
M-3112	3/8	1 1/4	19/32	3/4	1/4
M-3014	7/16	7/8	11/16	3/4	9/32
M-3114	7/16	1 1/2	11/16	3/4	9/32
MSW-604	7/16	1 1/2	21/32	3/4	9/32
M-3115	15/32	1 1/2	3/4	3/4	9/32
M-3016	1/2	7/8	13/16	13/16	5/16
M-3116	1/2	1 1/2	13/16	13/16	11/32
MHC-3816	1/2	1 1/2	11/16	11/16	11/32
M-3117	17/32	1 1/2	13/16	13/16	11/32
M-3018	9/16	7/8	7/8	7/8	5/16
M-3118	9/16	1 1/2	7/8	7/8	7/16
MSW-343	9/16	1 1/2	3/4	3/4	7/16
M-3120	5/8	1 1/2	15/16	15/16	7/16
M-3122	11/16	1 1/2	1	1	7/16



# 3/8" Square Drive Sockets, SAE



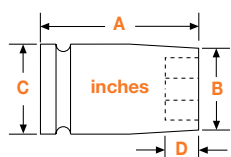
## Magnetic, Thin Wall, Standard Length



Part Number Fixed Magnet	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
M-3408	1/4	1 1/4	7/16	3/4	5/32
M-3409	9/32	1 1/4	7/16	3/4	3/16
M-3410	5/16	1 1/4	1/2	3/4	3/16
OSM-3410*	5/16	1 1/4	7/16	19/32	3/16
M-3411	11/32	1 1/4	1/2	3/4	3/16
M-3412	3/8	1 1/2	19/32	3/4	1/4
M-3414	7/16	1 1/2	5/8	3/4	9/32
OSM-3414*	7/16	1 1/2	5/8	5/8	9/32
M-3416	1/2	1 1/2	3/4	3/4	11/32
M-3418	9/16	1 1/2	25/32	13/16	7/16
M-3420	5/8	1 1/2	7/8	7/8	7/16
M-3424	3/4	1 1/2	1	1	15/32
M-3426	13/16	1 1/2	1 1/8	1 1/8	17/32
M-3430	15/16	1 1/2	1 5/16	1 5/16	17/32

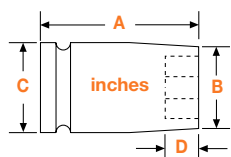
\*No ring groove.

## Magnetic, Long Length and Extra Long Length



Part No. Fixed Magnet	Part No. Magnetic Bolt Clearance	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
-	MB-3210	5/16	2	1/2	3/4	3/16
M-3212	MB-3212	3/8	2	19/32	3/4	1/4
M-3214	MB-3214	7/16	2	11/16	3/4	9/32
-	MB-3314	7/16	3 1/2	11/16	3/4	9/32
M-3216	MB-3216	1/2	2	13/16	13/16	11/32
M-3218	MB-3218	9/16	2	7/8	7/8	7/16
-	MB-3318	9/16	3 1/2	7/8	7/8	7/16
-	MB-3220	5/8	2	15/16	15/16	7/16

## Magnetic, Thin Wall, Long Length



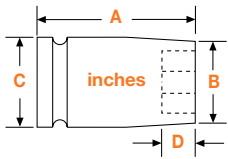
Part No. Fixed Magnet	Part No. Magnetic Bolt Clearance	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
-	MB-3512	3/8	2	19/32	3/4	1/4
M-3514	MB-3514	7/16	2	5/8	3/4	9/32
-	MB-3516	1/2	2	3/4	3/4	11/32

# 3/8" Square Drive Sockets, SAE



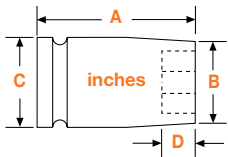
## Surface Drive and Fast Lead, Short and Standard Length

	Part No. Surface Drive	Part Number Fast Lead	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
	SF-3108	FL-3108	1/4	1 1/4	7/16	3/4	5/32
	SF-3010	-	5/16	7/8	1/2	3/4	3/16
	SF-3110	FL-3110	5/16	1 1/4	1/2	3/4	3/16
	SF-3012	FL-3012	3/8	7/8	19/32	3/4	3/16
	SF-3112	FL-3112	3/8	1 1/4	19/32	3/4	1/4
	SF-3014	FL-3014	7/16	7/8	11/16	3/4	9/32
	SF-3114	FL-3114	7/16	1 1/2	11/16	3/4	9/32
	SF-3016	FL-3016	1/2	7/8	13/16	13/16	5/16
	SF-3116	FL-3116	1/2	1 1/2	13/16	13/16	11/32
	SF-HC3816	-	1/2	1 1/2	11/16	11/16	11/32
	SF-3018	FL-3018	9/16	7/8	7/8	7/8	5/16
	SF-3118	FL-3118	9/16	1 1/2	7/8	7/8	7/16
	-	FL-3119	19/32	1 1/2	7/8	7/8	7/16
-	FL-3020	5/8	1	15/16	15/16	7/16	
SF-3120	FL-3120	5/8	1 1/2	15/16	15/16	7/16	
-	FL-3022	11/16	1	15/16	15/16	7/16	
SF-3122	FL-3122	11/16	1 1/2	1	1	7/16	
-	FL-3024	3/4	1	1 1/16	1 1/16	7/16	
SF-3124	FL-3124	3/4	1 1/2	1 1/16	1 1/16	15/32	
SF-3028	-	7/8	1	1 1/4	1 1/4	9/16	



## Surface Drive and Fast Lead, Thin Wall, Standard Length


	Part No. Surface Drive	Part Number Fast Lead	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
	-	FL-3410	5/16	1 1/4	1/2	3/4	3/16
	SF-3412	FL-3412	3/8	1 1/2	19/32	3/4	1/4
	SF-3414	FL-3414	7/16	1 1/2	5/8	3/4	9/32
	SF-3416	-	1/2	1 1/2	3/4	3/4	11/32
	SF-3418	-	9/16	1 1/2	25/32	13/16	7/16
	SF-3420	-	5/8	1 1/2	7/8	7/8	7/16
	SF-3422	-	11/16	1 1/2	15/16	15/16	7/16
	SF-3430	-	15/16	1 1/2	1 5/16	1 5/16	7/16
	SF-3432	-	1	1 1/2	1 3/8	1 3/8	5/8

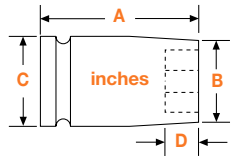


# 3/8" Square Drive Sockets, SAE



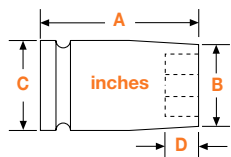
## Surface Drive and Fast Lead, Long and Extra Long Length

Part No. Surface Drive	Part Number Fast Lead	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
-	FL-3210	5/16	2	1/2	3/4	3/16
SF-3212	FL-3212	3/8	2	19/32	3/4	1/4
SF-3312	FL-3312	3/8	3 1/2	19/32	3/4	1/4
SF-3214	FL-3214	7/16	2	11/16	3/4	9/32
SF-3314	FL-3314	7/16	3 1/2	11/16	3/4	9/32
SF-3216	FL-3216	1/2	2	13/16	13/16	11/32
SF-3316 	FL-3316	1/2	3 1/2	13/16	13/16	11/32
SF-3218	FL-3218	9/16	2	7/8	7/8	7/16
SF-3318	FL-3318	9/16	3 1/2	7/8	7/8	7/16
SF-3220	FL-3220	5/8	2	15/16	15/16	7/16
SF-3320	FL-3320	5/8	3 1/2	15/16	15/16	7/16
SF-3222	-	11/16	2	1	1	7/16
SF-3322	-	11/16	3 1/2	1	1	7/16
SF-3224	-	3/4	2	1 1/16	1 1/16	15/32
SF-3324	FL-3324	3/4	3 1/2	1 1/16	1 1/16	15/32
SF-3226	-	13/16	2	1 1/4	1 1/4	17/32
-	FL-3326	13/16	3 1/2	1 1/4	1 1/4	17/32



## Surface Drive, Thin Wall, Long Length

Part No. Surface Drive	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-3512	3/8	2	19/32	3/4	1/4
OSSF-3512*	3/8	2	19/32	19/32	1/4
SF-3514	7/16	2	5/8	3/4	9/32
OSSF-3514*	7/16	2	5/8	5/8	9/32
SF-3516	1/2	2	3/4	3/4	11/32
SF-3518	9/16	2	25/32	13/16	7/16
SF-3524	3/4	2	1	1	15/32

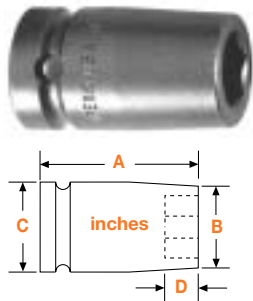


\*No ring groove.

# 3/8" Square Drive Sockets For SAE Sheet Metal Screws

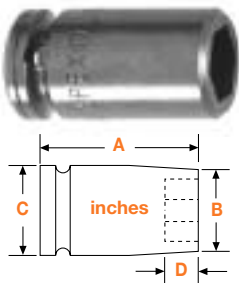


## 6 Point and 6 Point Magnetic, For Predrilled Holes\*



Part Number 6 Point	Part Number Magnetic	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
3E06	-	3/16	1 1/4	5/16	3/4	3/32
3E07	-	7/32	1 1/4	3/8	3/4	5/32
3E08	M3E08	1/4	1 1/4	7/16	3/4	5/32
-	M3E09	9/32	1 1/4	7/16	3/4	3/16
3E10	M3E10	5/16	1 1/4	1/2	3/4	3/16
3E11	M3E11	11/32	1 1/4	1/2	3/4	3/16
3E12	M3E12	3/8	1 1/4	19/32	3/4	1/4
3E14	M3E14	7/16	1 1/4	11/16	3/4	9/32
3E16	M3E16	1/2	1 1/2	13/16	13/16	11/32
3E18	M3E18	9/16	1 1/2	7/8	7/8	7/16

## 6 Point and 6 Point Magnetic, For Self-Tapping Screws\*

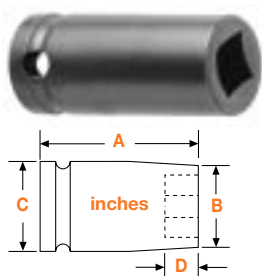


Part Number 6 Point	Part Number Magnetic	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
3P06	M3P06	3/16	1 1/4	5/16	3/4	3/32
3P07	M3P07	7/32	1 1/4	3/8	3/4	5/32
3P08	M3P08	1/4	1 1/4	7/16	3/4	5/32
3P09	M3P09	9/32	1 1/4	7/16	3/4	3/16
3P10	M3P10	5/16	1 1/4	1/2	3/4	3/16
3P11	-	11/32	1 1/4	9/16	3/4	3/16
3P12	M3P12	3/8	1 1/4	5/8	3/4	1/4
3P14	M3P14	7/16	1 1/4	11/16	3/4	9/32
3P16	M3P16	1/2	1 1/2	13/16	13/16	11/32
3P18	M3P18	9/16	1 1/2	7/8	7/8	7/16

\*Sockets for predrilled holes are intermediate hardness; sockets for self-tapping screws are maximum hardness.

# 3/8" Square Drive Sockets For SAE Square Nuts

## Single Square and Double Square



Part Number Square	Part No. Double Square	Square Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
3607	-	7/32	1 1/2	7/16	3/4	3/16
3608	3608-D	1/4	1 1/2	1/2	3/4	3/16
3609	3609-D	9/32	1 1/2	9/16	3/4	3/16
3610	3610-D	5/16	1 1/2	5/8	3/4	1/4
3612	3612-D	3/8	1 1/2	3/4	3/4	1/4
3614	3614-D	7/16	1 1/2	7/8	7/8	9/32
3616	3616-D	1/2	1 1/2	1	1	11/32
3618	3618-D	9/16	1 1/2	1	1	7/16
3620	-	5/8	1 1/2	1 1/8	1 1/8	7/16
3622	-	11/16	1 1/2	1 1/4	1 1/4	7/16
3624	-	3/4	1 1/2	1 3/8	1 3/8	15/32

Refer to Page iv for description of Rapid Select.

# 3/8" Square Drive Socket Sets, SAE



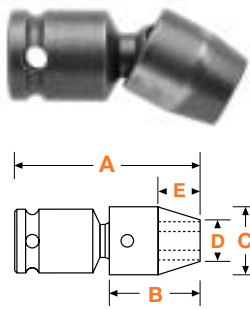
## 6 Point



APS38	8 piece, standard length: 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4
APS38L	8 piece, long length: 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4

# 3/8" Square Drive Universal Wrenches, SAE

## 6 Point and 12 Point



Part Number 6 Point	Part Number 12 Point	Hex Opening In.	Overall Length (A) In.	Socket Length (B) In.	Socket Diameter (C) In.	Nose End Diameter (D) In.	Clearance Depth (E) In.
SA-120	SA-120-D	5/16	1 53/64	3/4	3/4	7/16	5/16
SA-122	SA-122-D	3/8	1 57/64	13/16	3/4	9/16	3/8
SA-200	-	3/8	1 15/16	7/8	7/8	9/16	11/32
SA-123	SA-123-D	7/16	2 1/64	15/16	3/4	19/32	1/2
SA-201	-	7/16	2	15/16	7/8	5/8	13/32
SA-124	SA-124-D	1/2	2 5/64	1	3/4	3/4	9/16
SA-202	SA-202-D	1/2	2 1/16	1	7/8	11/16	15/32
SA-301	-	1/2	2 1/16	1	1	11/16	7/16
SA-125	SA-125-D	9/16	2 1/8	1	13/16	13/16	9/16
SA-203	SA-203-D	9/16	2 1/16	1 1/16	7/8	3/4	17/32
SA-302	-	9/16	2 1/8	1 1/8	1	3/4	9/16
SA-205	SA-205-D	5/8	2 1/8	1 1/8	7/8	7/8	19/32
SA-304	-	5/8	2 3/16	1 3/16	1	27/32	5/8
SA-305	-	11/16	2 5/16	1 1/4	1	1	11/16
SA-306	SA-306-D	3/4	2 5/16	1 1/4	1 1/8	1 1/8	11/16

Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

# 3/8" Square Drive Universal Wrench Set, SAE

## 6 Point



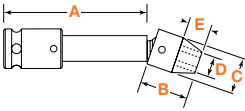
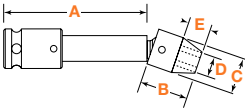



APU37	7 piece, standard length: 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4
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# 3/8" Square Drive Universal Wrenches, SAE - Extension



## 6 Point and Double Hex, Standard and Tension Type

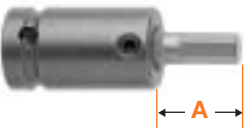





















	Part Number Standard	Part Number Tension	Hex Opening In.	Overall Length (A) In.	Socket Length (B) In.	Socket Diameter (C) In.	Nose End Diameter (D) In.	Clearance Depth (E) In.
	KA-43-3	-	3/8	3	13/16	5/8	17/32	7/16
	KA-43-4	-	3/8	4	13/16	5/8	17/32	7/16
	KA-43-6	KD-43-6	3/8	6	13/16	5/8	17/32	7/16
	-	KD-43-9	3/8	9	13/16	5/8	17/32	7/16
	KA-44-3	-	7/16	3	7/8	5/8	5/8	1/2
	KA-44-4	-	7/16	4	7/8	5/8	5/8	1/2
	KA-44-6	KD-44-6	7/16	6	7/8	5/8	5/8	1/2
	-	KD-44-12	7/16	12	7/8	5/8	5/8	1/2
	KA-103-3	-	7/16	3	15/16	3/4	19/32	1/2
	KA-103-4	-	7/16	4	15/16	3/4	19/32	1/2
	KA-103-6	KD-103-6	7/16	6	15/16	3/4	19/32	1/2
	KA-45-3	-	1/2	3	7/8	11/16	11/16	1/2
	KA-45-4	-	1/2	4	7/8	11/16	11/16	1/2
	KA-45-6	KD-45-6	1/2	6	7/8	11/16	11/16	1/2
	KA-45-9	KD-45-9	1/2	9	7/8	11/16	11/16	1/2
	KA-45-12	KD-45-12	1/2	12	7/8	11/16	11/16	1/2
	KA-104-3	-	1/2	3	1	3/4	3/4	9/16
	KA-104-4	-	1/2	4	1	3/4	3/4	9/16
	KA-104-6	KD-104-6	1/2	6	1	3/4	3/4	9/16
	KA-104-9	-	1/2	9	1	3/4	3/4	9/16
-	KD-104-12	1/2	12	1	3/4	3/4	9/16	
KA-105-3	KD-105-3	9/16	3	1	13/16	13/16	9/16	
KA-105-4	KD-105-4	9/16	4	1	13/16	13/16	9/16	
KA-105-6	KD-105-6 	9/16	6	1	13/16	13/16	9/16	
KA-105-9	KD-105-9	9/16	9	1	13/16	13/16	9/16	
KA-105-12	KD-105-12	9/16	12	1	13/16	13/16	9/16	
KA-205-3	-	5/8	3	1 1/8	7/8	7/8	19/32	
KA-205-6	KD-205-6	5/8	6	1 1/8	7/8	7/8	19/32	

Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

Actual design of universal wrenches may not be exactly like pictures above.

## 3/8" Sq. Dr. Socket Head Bits, SAE

### Complete, Adapter Only, Insert Only

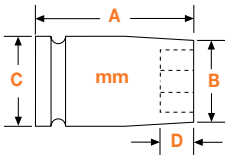
	Part Number			Hex Size	Overall Length	Length of Insert (A)	
	Complete	Adapter Only	Insert Only			In.	mm
	SZ-10 	SC-314 	SZ-10-A 	1/8	2 1/4	57	1 3/8 35
	SZ-11 	SC-314 	SZ-11-A 	5/32	2 1/4	57	1 3/8 35
	SZ-12 	SC-314 	SZ-12-A 	3/16	2 1/4	57	1 3/8 35
	SZ-13 	SC-314 	SZ-13-A 	7/32	2 1/4	57	1 3/8 35
	SZ-14 	SC-314 	SZ-14-A 	1/4	2 1/4	57	1 3/8 35
	SZ-15 	SC-314 	SZ-15-A 	5/16	2 1/4	57	1 3/8 35
	SZ-16 	SC-314 	SZ-16-A 	3/8	2 1/4	57	1 3/8 35

See Page 37 for more 3/8" drive complete socket head bits.

 Refer to Page iv for description of Rapid Select.

# 3/8" Square Drive Sockets, Metric

## 6 Point and 12 Point, Short and Standard Length




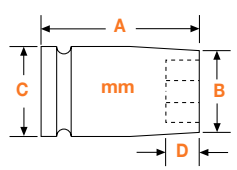
Part Number 6 Point	Part Number 12 Point	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
6mm13	-	6	31.7	11.1	19.1	3.9
7mm03	-	7	22.2	11.1	19.1	3.0
7mm13	-	7	31.7	11.1	19.1	4.8
8mm03	-	8	22.2	12.7	19.1	4.8
8mm13	8mm13-D	8	31.7	12.7	19.1	4.8
OS-8mm13*	-	8	31.7	11.7	15.7	4.8
9mm03	9mm03-D	9	22.2	15.1	19.1	4.8
9mm13	9mm13-D	9	31.7	15.1	19.1	4.8
10mm03	10mm03-D	10	22.2	16.8	19.1	6.4
OS-10mm03*	-	10	22.1	15.7	15.7	6.4
10mm13	10mm13-D	10	31.7	16.8	19.1	6.4
11mm03	11mm03-D	11	22.2	17.5	19.1	7.2
11mm13	11mm13-D	11	31.7	17.5	19.1	7.2
12mm03	12mm03-D	12	22.2	19.1	19.1	7.2
12mm13	12mm13-D	12	38.1	19.1	19.1	7.2
13mm03	13mm03-D	13	22.2	20.6	20.6	7.9
13mm13	13mm13-D	13	38.1	20.6	20.6	8.7
14mm03	14mm03-D	14	22.2	22.2	22.2	7.9
14mm13	14mm13-D	14	38.1	22.2	22.2	11.1
15mm03	15mm03-D	15	23.8	22.2	22.2	9.5
15mm13	15mm13-D	15	38.1	22.2	22.2	11.1
16mm03	16mm03-D	16	25.4	23.8	23.8	11.1
16mm13	16mm13-D	16	38.1	23.8	23.8	11.1
17mm03	17mm03-D	17	25.4	25.4	25.4	11.1
17mm13	17mm13-D	17	38.1	25.4	25.4	11.1
18mm03	18mm03-D	18	25.4	25.4	25.4	11.1
18mm13	18mm13-D	18	38.1	25.4	25.4	11.1
19mm03	19mm03-D	19	25.4	28.6	28.6	11.1
19mm13	19mm13-D	19	38.1	28.6	28.6	11.9
20mm03	-	20	25.4	28.6	28.6	11.1
20mm13	-	20	38.1	28.6	28.6	11.9
21mm03	-	21	25.4	31.7	31.7	11.1
21mm13	-	21	38.1	31.7	31.7	13.5
22mm03	-	22	25.4	31.7	31.7	11.1
22mm13	-	22	38.1	31.7	31.7	14.3




\*No ring groove.

# 3/8" Square Drive Sockets, Metric


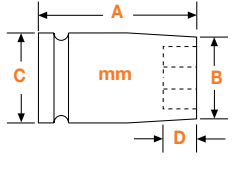














## 6 Point and Double Hex, Thin Wall, Standard Length

Part Number 6 Point	Part Number Double Hex	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
6mm43	-	6	31.7	9.5	19.1	3.9
7mm43	7mm43-D	7	31.7	11.1	19.1	4.8
8mm43 	8mm43-D	8	31.7	12.7	19.1	4.8
9mm43	9mm43-D	9	31.7	12.7	19.1	4.8
10mm43 	10mm43-D	10	31.7	15.1	19.1	6.4
11mm43	11mm43-D	11	38.1	15.9	19.1	7.2
12mm43	12mm43-D	12	38.1	17.5	19.1	7.2
13mm43 	13mm43-D	13	38.1	19.1	19.1	8.7
14mm43	14mm43-D	14	38.1	19.8	20.6	11.1
15mm43	15mm43-D	15	38.1	20.6	20.6	11.1
16mm43	16mm43-D	16	38.1	22.2	22.2	11.1
17mm43	17mm43-D	17	38.1	23.8	23.8	11.1
18mm43	18mm43-D	18	38.1	23.8	23.8	11.1
19mm43	19mm43-D	19	38.1	25.4	25.4	11.9

## 6 Point and Double Hex, Long and Extra Long Length

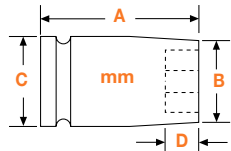
Part Number 6 Point	Part Number Double Hex	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
6mm23	-	6	50.8	11.1	19.1	3.9
7mm23	-	7	50.8	11.1	19.1	4.8
8mm23 	8mm23-D	8	50.8	12.7	19.1	4.8
9mm23	9mm23-D	9	50.8	15.1	19.1	4.8
10mm23 	10mm23-D	10	50.8	16.8	19.1	6.4
OS-10mm23*	OS-10mm23-D*	10	50.8	14.2	15.9	6.4
10mm33 	-	10	88.9	16.8	19.1	6.4
11mm23 	11mm23-D	11	50.8	17.5	19.1	7.2
12mm23 	12mm23-D	12	50.8	19.1	19.1	7.2
13mm23 	13mm23-D	13	50.8	20.6	20.6	8.7
13mm33 	-	13	88.9	20.6	20.6	8.7
14mm23 	14mm23-D	14	50.8	22.2	22.2	11.1
15mm23 	15mm23-D	15	50.8	22.2	22.2	11.1
15mm33 	15mm33-D	15	88.9	22.2	22.2	11.1
16mm23	16mm23-D	16	50.8	23.8	23.8	11.1
17mm23 	17mm23-D	17	50.8	25.4	25.4	11.1
18mm23 	18mm23-D	18	50.8	25.4	25.4	11.1
19mm23	19mm23-D	19	50.8	28.6	28.6	11.9
20mm23	20mm23-D	20	50.8	28.6	28.6	11.9
21mm23	-	21	50.8	31.7	31.7	13.5
22mm23	-	22	50.8	31.7	31.7	14.3

\*No ring groove.



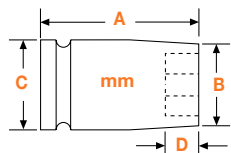
# 3/8" Square Drive Sockets, Metric

## Magnetic, Short and Standard Length



Part Number Fixed Magnet	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
M-6mm13	6	31.8	11.1	19.1	3.9
M-7mm13	7	31.8	11.1	19.1	4.8
M-8mm13	8	31.8	12.7	19.1	4.8
M-9mm13	9	31.8	15.1	19.1	4.8
M-10mm03	10	22.2	16.8	19.1	6.4
M-10mm13	10	31.8	16.8	19.1	6.4
M-11mm03	11	22.2	17.5	19.1	7.2
M-11mm13	11	38.1	17.5	19.1	7.2
M-12mm03	12	22.2	19.1	19.1	7.2
M-12mm13	12	38.1	19.1	19.1	7.2
M-13mm03	13	22.2	20.6	20.6	8.7
M-13mm13	13	38.1	20.6	20.6	8.7
M-14mm13	14	38.1	22.2	22.2	11.1
M-15mm03	15	23.8	22.2	22.2	9.5
M-15mm13	15	38.1	22.2	22.2	11.1
M-16mm13	16	38.1	23.8	23.8	11.1
M-17mm13	17	38.1	25.4	25.4	11.1
M-18mm03	18	25.4	25.4	25.4	11.1
M-18mm13	18	38.1	25.4	25.4	11.1

## Magnetic, Thin Wall, Standard Length

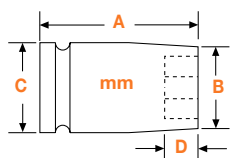


Part Number Fixed Magnet	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
M-6mm43	6	31.7	9.5	19.1	3.9
M-8mm43	8	31.7	12.7	19.1	4.8
M-9mm43	9	31.7	12.7	19.1	4.8
M-10mm43	10	31.7	15.1	19.1	6.4
M-11mm43	11	38.1	15.9	19.1	7.2
M-12mm43	12	38.1	17.5	19.1	7.2
M-13mm43	13	38.1	19.1	19.1	8.7
M-14mm43	14	38.1	19.8	20.6	11.1
M-15mm43	15	38.1	20.5	20.6	11.1

# 3/8" Square Drive Sockets, Metric



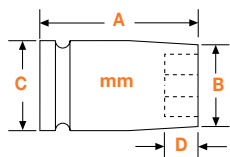
## Magnetic, Long and Extra Long Length



Part Number Magnetic Bolt Clearance	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
MB-6mm23	6	50.8	11.1	19.1	3.9
MB-7mm23	7	50.8	11.1	19.1	4.8
MB-8mm23	8	50.8	12.7	19.1	4.8
OSMB-8mm23*	8	50.8	11.7	15.9	4.8
MB-9mm23	9	50.8	15.1	19.1	4.8
MB-10mm23	10	50.8	16.8	19.1	6.4
OSMB-10mm23*	10	50.8	14.2	15.9	6.4
MB-10mm33	10	88.9	16.8	19.1	6.4
MB-11mm23	11	50.8	17.5	19.1	7.2
MB-12mm23	12	50.8	19.1	19.1	7.2
MB-13mm23	13	50.8	20.6	20.6	8.7
MB-13mm33	13	88.9	20.6	20.6	8.7
MB-14mm23	14	50.8	22.2	22.2	11.1
MB-15mm23	15	50.8	22.2	22.2	11.1
MB-15mm33	15	88.9	22.2	22.2	11.1
MB-16mm23	16	50.8	23.8	23.8	11.1
MB-17mm23	17	50.8	25.4	25.4	11.1
MB-18mm23	18	50.8	25.4	25.4	11.1

\*No ring groove.

## Surface Drive, Short and Standard Length

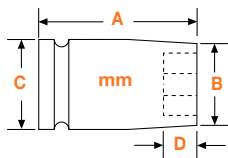


Part Number Surface Drive	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-8mm13	8	31.7	12.7	19.1	4.8
SF-9mm13	9	31.7	15.1	19.1	4.8
SF-10mm03	10	22.2	16.8	19.1	6.4
SF-10mm13	10	31.7	16.8	19.1	6.4
SF-11mm03	11	22.2	17.5	19.1	7.2
SF-11mm13	11	38.1	17.5	19.1	7.2
SF-12mm03	12	22.2	19.1	19.1	7.2
SF-12mm13	12	38.1	19.1	19.1	7.2
SF-13mm03	13	22.2	20.6	20.6	8.7
SF-13mm13	13	38.1	20.6	20.6	8.7
SF-14mm03	14	22.2	22.2	22.2	11.1
SF-14mm13	14	38.1	22.2	22.2	11.1
SF-15mm03	15	23.8	22.2	22.2	11.1
SF-15mm13	15	38.1	22.2	22.2	11.1
SF-16mm13	16	38.1	23.8	23.8	11.1
SF-17mm03	17	25.4	25.4	25.4	11.1
SF-17mm13	17	38.1	25.4	25.4	11.1
SF-18mm03	18	25.4	25.4	25.4	11.1
SF-18mm13	18	38.1	25.4	25.4	11.1
SF-19mm03	18	25.4	28.6	28.6	11.9
SF-19mm13	18	38.1	28.6	28.6	11.9

Refer to Page iv for description of Rapid Select.

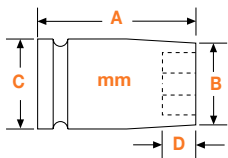
# 3/8" Square Drive Sockets, Metric

## Surface Drive, Thin Wall, Standard Length



Part Number Surface Drive	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-10mm43	10	31.7	15.1	19.1	6.4
OSSF-10mm43*	10	31.7	15.1	15.1	6.4
SF-11mm43	11	38.1	15.9	19.1	7.2
SF-12mm43	12	38.1	17.5	19.1	7.2
SF-13mm43	13	38.1	19.1	19.1	8.7
SF-15mm43	15	38.1	20.6	20.6	11.1
SF-16mm43	16	38.1	22.2	22.2	11.1
SF-17mm43	17	38.1	23.8	23.8	11.1
SF-18mm43	18	38.1	23.8	23.8	11.1
SF-19mm43	19	38.1	25.4	25.4	11.9

## Surface Drive, Long and Extra Long Length

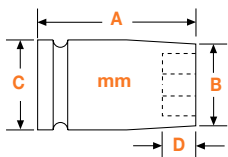


Part Number Surface Drive	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-8mm23	8	50.8	12.7	19.1	4.8
OSSF-8mm23*	8	50.8	11.9	15.9	4.8
SF-10mm23	10	50.8	16.8	19.1	6.4
OSSF-10mm23*	10	50.8	14.2	15.9	6.4
SF-10mm33	10	88.9	16.8	19.1	6.4
SF-11mm23	11	50.8	17.5	19.1	7.2
SF-12mm23	12	50.8	19.1	19.1	7.2
SF-13mm23	13	50.8	20.6	20.6	8.7
SF-13mm33	13	88.9	20.6	20.6	8.7
SF-15mm23	15	50.8	22.2	22.2	11.1
SF-15mm33	15	88.9	22.2	22.2	11.1
SF-17mm23	17	50.8	25.4	25.4	11.1
SF-18mm23	18	50.8	25.4	25.4	11.1
SF-19mm23	19	50.8	28.6	28.6	11.9

\*No ring groove.

# 3/8" Sq. Dr. Sockets For Metric Sheet Metal Screws

## 6 Point and 6 Point Magnetic, for Predrilled Holes



Part Number 6 Point	Part Number Magnetic	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
6mmE3	M-6mmE3	6	31.7	11.1	19.1	3.9
7mmE3	M-7mmE3	7	31.7	11.9	19.1	4.8
8mmE3	M-8mmE3	8	31.7	12.7	19.1	4.8
9mmE3	M-9mmE3	9	31.7	15.1	19.1	4.8
10mmE3	M-10mmE3	10	31.7	16.8	19.1	6.4
11mmE3	M-11mmE3	11	31.7	17.5	19.1	7.2
12mmE3	M-12mmE3	12	31.7	19.1	19.1	7.2
13mmE3	M-13mmE3	13	38.1	20.6	20.6	8.7

Refer to Page iv for description of Rapid Select.

# 3/8" Square Drive Socket Sets, Metric



## 6 Point



APS38M 8 piece, standard length: 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm

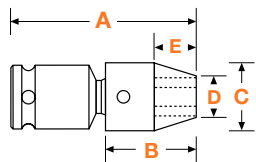
APS312M 12 piece, standard length: 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm

APS38LM 8 piece, long length: 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm

APS312LM 12 piece, long length: 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm

# Universal Wrenches 3/8" Square Drive, Metric

## 6 Point



Part Number 6 Point	Hex Opening mm	Overall Length (A) mm	Socket Length (B) mm	Socket Diameter (C) mm	Nose End Diameter (D) mm	Clearance Depth (E) mm
SA-36-10m	10	48	20.6	19.1	15.1	9.5
SA-37-11m	11	51	23.8	22.2	15.9	10.3
SA-37-12m	12	51	23.8	22.2	17.5	10.3
SA-37-13m	13	52	25.4	22.2	17.5	11.9
SA-37-14m	14	54	27.0	22.2	19.1	13.5
SA-38-15m	15	56	28.6	25.4	19.8	14.3
SA-38-17m	17	59	31.8	25.4	25.4	17.5
SA-38-18m	18	59	31.8	25.4	25.4	17.5

Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

# 3/8" Square Drive Universal Wrench Set, Metric

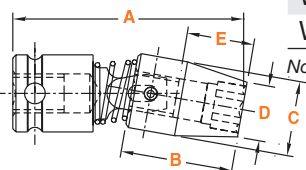
## 6 Point



APU37M 7 piece, standard length: 10mm, 12mm, 13mm, 14mm, 15mm, 17mm, 18mm

# 3/8" Square Drive Wobble Sockets, Metric

## Surface Drive



Part Number	Hex Opening mm	Overall Length (A) mm	Socket Length (B) mm	Socket Diameter (C) mm	Nose End Diameter (D) mm	Clearance Depth (E) mm
WSCSF-8mm-B1.25	8	60.4	31.8	19.0	12.5	24.0
WSCSF-10mm-B1.25	10	60.4	31.8	19.0	16.7	24.0
WSCSF-13mm-B1.50	13	66.8	38.1	20.7	20.7	30.0




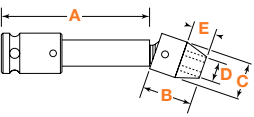




Not to be used with impact drivers.

Actual design of wobble socket may not be exactly like picture above.

# 3/8" Square Drive Universal Wrenches, Metric – Extension



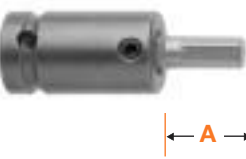






## 6 Point, Standard and Tension Type


	Part Number Standard	Part Number Tension	Hex Opening mm	Shank Length (A) mm	Socket Length (B) mm	Socket Diameter (C) mm	Nose End Diameter (D) mm	Clearance Depth (E) mm
	KA-6-10m-3	-	10	76	20.6	19.1	15.1	9.5
	KA-6-10m-4	-	10	102	20.6	19.1	15.1	9.5
	KA-6-10m-6	KD-6-10m-6 	10	152	20.6	19.1	15.1	9.5
	KA-6-10m-9	KD-6-10m-9	10	229	20.6	19.1	15.1	9.5
	KA-6-10m-12	KD-6-10m-12	10	305	20.6	19.1	15.1	9.5
	KA-7-11m-3	-	11	76	23.8	22.2	15.9	10.3
	KA-7-11m-6	KD-7-11m-6	11	152	23.8	22.2	15.9	10.3
	-	KD-7-11m-9	11	229	23.8	22.2	15.9	10.3
	KA-7-11m-12	KD-7-11m-12	11	305	23.8	22.2	15.9	10.3
	KA-7-12m-3	-	12	76	23.8	22.2	17.5	10.3
	KA-7-12m-4	-	12	102	23.8	22.2	17.5	10.3
	KA-7-12m-6	KD-7-12m-6	12	152	23.8	22.2	17.5	10.3
	KA-7-12m-9	KD-7-12m-9	12	229	23.8	22.2	17.5	10.3
	KA-7-12m-12	KD-7-12m-12	12	305	23.8	22.2	17.5	10.3
	KA-7-13m-3	-	13	76	25.4	22.2	17.5	11.9
	KA-7-13m-4	-	13	102	25.4	22.2	17.5	11.9
	KA-7-13m-6 	KD-7-13m-6 	13	152	25.4	22.2	17.5	11.9
	KA-7-13m-9	KD-7-13m-9	13	229	25.4	22.2	17.5	11.9
	KA-7-13m-12	KD-7-13m-12	13	305	25.4	22.2	17.5	11.9
	KA-7-14m-3	-	14	76	27.0	22.2	19.1	13.5
	KA-7-14m-4	-	14	102	27.0	22.2	19.1	13.5
	KA-7-14m-6	KD-7-14m-6 	14	152	27.0	22.2	19.1	13.5
	KA-7-14m-9	KD-7-14m-9	14	229	27.0	22.2	19.1	13.5
	KA-8-15m-3	-	15	76	28.6	25.4	19.8	14.3
	KA-8-15m-6	KD-8-15m-6 	15	152	28.6	25.4	19.8	14.3
	KA-8-15m-9	KD-8-15m-9	15	229	28.6	25.4	19.8	14.3
	KA-8-15m-12	KD-8-15m-12	15	305	28.6	25.4	19.8	14.3

Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

## 3/8" Square Drive Socket Head Bits, Metric

### Complete, Adapter Only, Insert Only

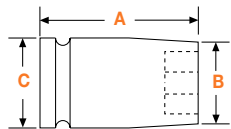
	Part Number			Hex Size	Overall Length		Length of Insert (A)	
	Complete	Adapter Only	Insert Only		In.	mm	In.	mm
	SZ-3-7-4mm	SC-314 	SZ-7-4mm	4mm	2 1/4	57	1 3/8	35
	SZ-3-7-5mm	SC-314 	SZ-7-5mm	5mm	2 1/4	57	1 3/8	35
	SZ-3-7-6mm	SC-314 	SZ-7-6mm 	6mm	2 1/4	57	1 3/8	35
	SZ-3-7-8mm	SC-314 	SZ-7-8mm	8mm	2 1/4	57	1 3/8	35
	SZ-3-7-10mm	SC-314 	SZ-7-10mm	10mm	2 1/4	57	1 3/8	35

 Refer to Page iv for description of Rapid Select.

# 3/8" Square Drive Sockets For Spline Fasteners



## Standard and Long Length

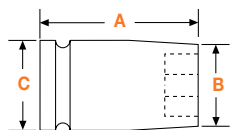


Part Number	Spline Size	Nominal Size	Overall Length (A)		Diameter Nose End (B)		Diameter Drive End (C)	
			In.	mm	In.	mm	In.	mm
CMS-3412	12	3/8	1	25	17/32	14	21/32	17
CMS-3512	12	3/8	2 1/8	54	17/32	14	21/32	17
CMS-3414	14	7/16	1 1/16	27	5/8	16	11/16	18
CMS-3514	14	7/16	2 1/8	54	5/8	16	11/16	18
CMS-3416	16	1/2	1 1/16	27	23/32	18	23/32	18
CMS-3418	18	9/16	1 1/16	27	13/16	21	13/16	21
CMS-3518	18	9/16	2 3/8	60	13/16	21	13/16	21
CMS-3420	20	5/8	1 3/16	30	7/8	22	7/8	22
CMS-3520	20	5/8	2 3/8	60	7/8	22	7/8	22

Apex spline sockets conform to military specifications MS-37787 and MIL-W-8982C.

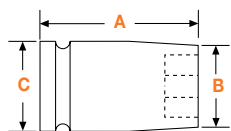
# 3/8" Square Drive Torx® Sockets

## For External Torx Screws



Part Number	Driver Size	Overall Length (A)		Nose End Diameter (B)		Drive End Diameter (C)	
		In.	mm	In.	mm	In.	mm
TX-3106	E-6	1 1/4	32	3/8	10	3/4	19
TX-3107	E-7	1 1/4	32	3/8	10	3/4	19
TX-3108	E-8	1 1/4	32	7/16	11	3/4	19
TX-3110	E-10	1 1/4	32	1/2	13	3/4	19
TX-3112	E-12	1 1/4	32	5/8	16	3/4	19
TX-3114	E-14	1 1/4	32	11/16	18	3/4	19
TX-3116	E-16	1 1/4	32	13/16	21	13/16	21

## For External Torx Screws, Thin Wall



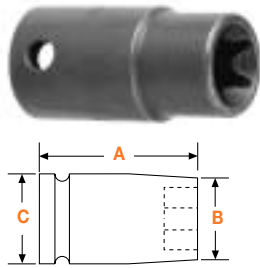
Part Number	Driver Size	Overall Length (A)		Nose End Diameter (B)		Drive End Diameter (C)	
		In.	mm	In.	mm	In.	mm
TX-3406	E-6	1 1/4	32	5/16	8	5/8	16
TX-3407	E-7	1 1/4	32	11/32	9	5/8	16
TX-3408	E-8	1 1/4	32	3/8	10	5/8	16
TX-3508	E-8	2	51	3/8	10	5/8	16
TX-3410	E-10	1 1/4	32	1/2	13	5/8	16
TX-3412	E-12	1 1/4	32	9/16	14	5/8	16
TX-3414	E-14	1 1/4	32	5/8	16	3/4	19
TX-3416	E-16	1 1/4	32	3/4	19	3/4	19

Some Torx® sockets have a DIN (pin and o-ring) groove.

# 3/8" Square Drive Torx® Sockets



## For Torx Nuts



Part Number	Driver Size	Overall Length (A)		Nose End Diameter (B)		Drive End Diameter (C)	
		In.	mm	In.	mm	In.	mm
TX-3E08	E-8	1 1/4	32	5/8	16	5/8	16
TX-3E10	E-10	1 1/4	32	5/8	16	5/8	16
TX-3E12	E-12	1 1/4	32	11/16	17	11/16	17
TX-3E14	E-14	1 1/4	32	3/4	19	3/4	19
TX-3E16	E-16	1 1/4	32	13/16	21	13/16	21

Sockets for Torx® nuts have a larger lead-in chamfer than sockets for external Torx® screws. Some Torx® sockets have a DIN (pin and o-ring) groove.

# 3/8" Square Drive Extensions

## 1 1/4" to 18" (32mm to 457mm) Length



Part Number	Male Square In.	Type of Lock	Overall Length	
			In.	mm
EX-374	3/8	Pin	1 3/8	34
EX-374-B	3/8	Ball	1 3/8	34
EX-376-2	3/8	Pin	2	51
EX-376-B-2	3/8	Ball	2	51
EX-376-3	3/8	Pin	3	76
EX-376-B-3	3/8	Ball	3	76
EX-376-4	3/8	Pin	4	102
EX-376-B-4	3/8	Ball	4	102
EX-376-5	3/8	Pin	5	127
EX-376-B-5	3/8	Ball	5	127
EX-376-6	3/8	Pin	6	152
EX-376-B-6	3/8	Ball	6	152
EX-376-8	3/8	Pin	8	203
EX-376-B-8	3/8	Ball	8	203
EX-376-9	3/8	Pin	9	229
EX-376-B-9	3/8	Ball	9	229
EX-376-10	3/8	Pin	10	254
EX-376-B-10	3/8	Ball	10	254
EX-376-12	3/8	Pin	12	305
EX-376-B-12	3/8	Ball	12	305
EX-376-15	3/8	Pin	15	381
EX-376-B-15	3/8	Ball	15	381
EX-376-18	3/8	Pin	18	457

# 3/8" Square Drive Adapters



## 1/4" to 3/4" Male Square



Part Number	Male Square In.	Female Square In.	Type of Lock	Overall Length	
				In.	mm
EX-254	1/4	3/8	Pin	1 1/4	32
EX-254-B	1/4	3/8	Ball	1 1/4	32
EX-257-2	1/4	3/8	Pin	2	51
EX-257-B-2	1/4	3/8	Ball	2	51
EX-257-3	1/4	3/8	Pin	3	76
EX-257-B-3	1/4	3/8	Ball	3	76
EX-257-4	1/4	3/8	Pin	4	102
EX-257-B-4	1/4	3/8	Ball	4	102
EX-257-5	1/4	3/8	Pin	5	127
EX-257-B-5	1/4	3/8	Ball	5	127
EX-257-6	1/4	3/8	Pin	6	152
EX-257-B-6	1/4	3/8	Ball	6	152
EX-503	1/2	3/8	Pin	1 1/2	38
EX-503-B	1/2	3/8	Ball	1 1/2	38
EX-507-2	1/2	3/8	Pin	2	51
EX-507-3	1/2	3/8	Pin	3	76
EX-507-B-3	1/2	3/8	Ball	3	76
EX-507-4	1/2	3/8	Pin	4	102
EX-507-B-4	1/2	3/8	Ball	4	102
EX-507-6	1/2	3/8	Pin	6	152
EX-507-B-6	1/2	3/8	Ball	6	152
EX-622	5/8	3/8	Pin	1 1/2	38
EX-750	3/4	3/8	7/32 Drill Hole	1 1/2	38
EX-750-B	3/4	3/8	Ball	1 1/2	38

# 3/8" Square Drive Universal Adapters

## Male Square to Female Square



Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

Part Number	Male Square In.	Female Square In.	Type of Lock	Overall Length		Largest Diameter	
				In.	mm	In.	mm
MF-27	1/4	3/8	Pin	1 5/16	49	3/4	19
MF-27B	1/4	3/8	Ball	1 5/16	49	3/4	19
MF-37	3/8	3/8	Pin	2 1/8	54	3/4	19
MF-37B	3/8	3/8	Ball	2 1/8	54	3/4	19
MF-38B	3/8	3/8	Ball	2 1/2	64	7/8	22

# 3/8" Square Drive Universal Adapters - Extension

## Male Square to Female Square



(Standard Type Shown)

Standard lengths are 3", 6", 9" and 12" (76, 152, 229 and 305mm)

Standard	Part Number	Tension	Male Square In.	Female Square In.	Type of Lock	Largest Diameter	
						In.	mm
-	KDM-25-3		1/4	3/8	Pin	5/8	16
	KAM-37-3	KDM-37-3	3/8	3/8	Pin	3/4	19
-	KDM-37-6		3/8	3/8	Pin	3/4	19
-	KDM-37-B-3		3/8	3/8	Ball	3/4	19
	KAM-38-6	KDM-38-6	3/8	3/8	Pin	7/8	22

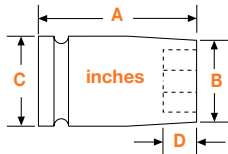
Refer to Page iv for description of Rapid Select.



# 1/2" Square Drive Sockets, SAE



## 6 Point and Double Hex, Standard Length



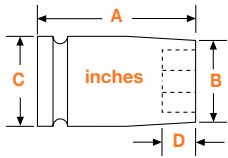
Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
5108	5108-D	1/4	1 1/2	7/16	15/16	5/32
5109	-	9/32	1 1/2	7/16	15/16	3/16
5110	5110-D	5/16	1 1/2	1/2	15/16	3/16
5111	-	11/32	1 1/2	9/16	15/16	3/16
5112	5112-D	3/8	1 1/2	5/8	15/16	1/4
5113	5113-D	13/32	1 1/2	11/16	15/16	1/4
5114	5114-D	7/16	1 1/2	11/16	15/16	9/32
5115	-	15/32	1 1/2	3/4	15/16	9/32
5116	5116-D	1/2	1 1/2	13/16	15/16	11/32
SH-335	SH-335-D	1/2	1 1/2	45/64	15/16	11/32
5117	-	17/32	1 1/2	7/8	15/16	11/32
5118	5118-D	9/16	1 1/2	7/8	15/16	7/16
SH-336	SH-336-D	9/16	1 1/2	27/32	15/16	7/16
5119	5119-D	19/32	1 1/2	15/16	15/16	7/16
5120	5120-D	5/8	1 1/2	1	1	7/16
SH-338	SH-338-D	5/8	1 1/2	15/16	1	7/16
5121	-	21/32	1 1/2	1	1	7/16
5122	5122-D	11/16	1 1/2	1 1/8	1 1/8	7/16
SH-339	SH-339-D	11/16	1 1/2	1 1/64	1 1/16	7/16
SW-282	SW-282-D	3/4	1 1/2	1 1/4	1 1/4	15/32
5124	5124-D	3/4	1 1/2	1 1/8	1 1/8	15/32
5125	5125-D	25/32	1 1/2	1 1/4	1 1/4	15/32
5126	5126-D	13/16	1 1/2	1 1/4	1 1/4	17/32
5128	5128-D	7/8	1 1/2	1 5/16	1 5/16	9/16
5129	5129-D	29/32	1 1/2	1 3/8	1 3/8	5/8
5130	5130-D	15/16	1 1/2	1 3/8	1 3/8	5/8
5131	5131-D	31/32	1 1/2	1 1/2	1 1/2	5/8
5132	5132-D	1	1 1/2	1 1/2	1 1/2	5/8
5134	5134-D	1 1/16	1 5/8	1 1/2	1 1/2	11/16
5136	5136-D	1 1/8	1 5/8	1 5/8	1 5/8	3/4
5138	5138-D	1 3/16	1 5/8	1 3/4	1 3/4	3/4
5140	5140-D	1 1/4	1 3/4	1 3/4	1 3/4	13/16
5142	5142-D	1 5/16	1 3/4	1 7/8	1 7/8	13/16
5144	5144-D	1 3/8	1 7/8	2	2	13/16
5146	5146-D	1 7/16	2	2	2	15/16
5148	5148-D	1 1/2	2	2 1/8	2 1/8	1
5150	5150-D	1 9/16	2	2 1/4	2 1/4	1
5152	5152-D	1 5/8	2	2 3/8	2 3/8	1 1/8
5154	5154-D	1 11/16	2	2 3/8	2 3/8	1 1/8
5156	5156-D	1 3/4	2	2 1/2	2 1/2	1 1/8

Refer to Page iv for description of Rapid Select.

# 1/2" Square Drive Sockets, SAE



## 6 Point and Double Hex, Thin Wall, Standard Length



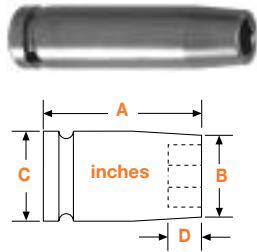
Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
5410	-	5/16	1 1/2	19/32	15/16	1/4
5412	5412-D	3/8	1 1/2	19/32	15/16	1/4
5414	5414-D	7/16	1 1/2	21/32	15/16	9/32
5416	5416-D	1/2	1 1/2	23/32	15/16	11/32
5418	5418-D	9/16	1 1/2	13/16	15/16	7/16
5420	5420-D	5/8	1 1/2	7/8	15/16	7/16
5421	5421-D	21/32	1 1/2	29/32	15/16	7/16
HE-2422	HE-2422-D	11/16	1 1/2	1	1	7/16
*5422	*5422-D	11/16	1 1/2	15/16	15/16	7/16
OS-5424**	-	3/4	1 1/2	1 1/32	1 1/32	15/32
5424	5424-D	3/4	1 1/2	1 1/32	1 1/8	15/32
5425	5425-D	25/32	1 1/2	1 1/16	1 1/8	15/32
5426	5426-D	13/16	1 1/2	1 1/8	1 1/8	17/32
HE-1028	HE-1028-D	7/8	1 1/2	1 1/4	1 1/4	9/16
*5428	*5428-D	7/8	1 1/2	1 3/16	1 1/4	9/16
HE-530	HE-530-D	15/16	1 1/2	1 5/16	1 5/16	5/8
*5430	*5430-D	15/16	1 1/2	1 1/4	1 1/4	5/8
5432	5432-D	1	1 1/2	1 3/8	1 3/8	5/8
5434	5434-D	1 1/16	1 5/8	1 7/16	1 7/16	11/16
5436	5436-D	1 1/8	1 5/8	1 1/2	1 1/2	3/4
5438	5438-D	1 3/16	1 5/8	1 5/8	1 5/8	3/4
5440	5440-D	1 1/4	1 3/4	1 11/16	1 3/4	13/16
5442	5442-D	1 5/16	1 3/4	1 25/32	1 7/8	13/16

\* Extra thin wall  
 \*\* No ring groove

# 1/2" Square Drive Sockets, SAE



## 6 Point and Double Hex, Long and Extra Long Length

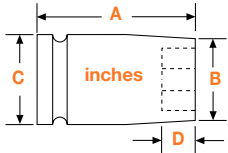


Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
5210	-	5/16	2 1/4	1/2	15/16	3/16
5310	-	5/16	3 1/4	1/2	15/16	3/16
5212	5212-D	3/8	2 1/4	5/8	15/16	1/4
5312	5312-D	3/8	3 1/4	5/8	15/16	1/4
5214	5214-D	7/16	2 1/4	11/16	15/16	9/32
5314	5314-D	7/16	3 1/4	11/16	15/16	9/32
5216	5216-D	1/2	2 1/4	13/16	15/16	11/32
5316	5316-D	1/2	3 1/4	13/16	15/16	11/32
HE-9518	HE-9518-D	9/16	2 1/4	7/8	7/8	7/16
5218	5218-D	9/16	2 1/4	7/8	15/16	7/16
5318	5318-D	9/16	3 1/4	7/8	15/16	7/16
5220	5220-D	5/8	2 1/4	1	1	7/16
5320	5320-D	5/8	3 1/4	1	1	7/16
5222	5222-D	11/16	2 1/4	1 1/8	1 1/8	7/16
5322	5322-D	11/16	3 1/4	1 1/8	1 1/8	7/16
5224	5224-D	3/4	2 1/4	1 1/8	1 1/8	15/32
5324	5324-D	3/4	3 1/4	1 1/8	1 1/8	15/32
SW-493	SW-493-D	3/4	2 1/4	1 1/4	1 1/4	15/32
5226	5226-D	13/16	2 1/4	1 1/4	1 1/4	17/32
5326	5326-D	13/16	3 1/2	1 1/4	1 1/4	17/32
5228	5228-D	7/8	2 1/4	1 5/16	1 5/16	9/16
5328	5328-D	7/8	3 1/2	1 5/16	1 5/16	9/16
5230	5230-D	15/16	2 1/4	1 3/8	1 3/8	5/8
5330	5330-D	15/16	3 1/2	1 3/8	1 3/8	5/8
5232	5232-D	1	2 1/4	1 1/2	1 1/2	5/8
5332	5332-D	1	3 1/2	1 1/2	1 1/2	5/8
5234	5234-D	1 1/16	2 3/8	1 1/2	1 1/2	11/16
5334	5334-D	1 1/16	3 1/2	1 1/2	1 1/2	11/16
5236	5236-D	1 1/8	2 3/8	1 5/8	1 5/8	3/4
5336	5336-D	1 1/8	3 1/2	1 5/8	1 5/8	3/4
5238	5238-D	1 3/16	2 3/8	1 3/4	1 3/4	3/4
5338	5338-D	1 3/16	3 1/2	1 3/4	1 3/4	3/4
5240	5240-D	1 1/4	2 1/2	1 3/4	1 3/4	13/16
5340	5340-D	1 1/4	3 1/2	1 3/4	1 3/4	13/16
5242	-	1 5/16	2 1/2	1 7/8	1 7/8	13/16
5342	-	1 5/16	3 1/2	1 7/8	1 7/8	13/16
5244	-	1 3/8	2 1/2	2	2	13/16
5344	-	1 3/8	3 5/8	2	2	13/16
5246	-	1 7/16	2 1/2	2	2	15/16
5346	-	1 7/16	3 5/8	2	2	15/16
5248	-	1 1/2	2 1/2	2 1/8	2 1/8	1
5348	-	1 1/2	3 3/4	2 1/8	2 1/8	1

# 1/2" Square Drive Sockets, SAE

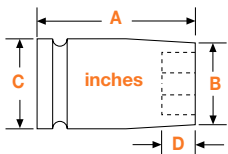


## 6 Point and Double Hex, Thin Wall, Extra Long Length



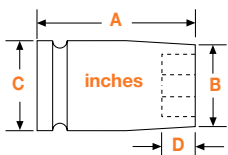
Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
5510	-	5/16	3 1/4	1/2	15/16	3/16
5512	5512-D	3/8	3 1/4	19/32	15/16	1/4
5514	5514-D	7/16	3 1/4	21/32	15/16	9/32
5516	5516-D	1/2	3 1/4	23/32	15/16	11/32
OS-5516*	-	1/2	3 1/4	47/64	7/8	11/32
5518	5518-D	9/16	3 1/4	13/16	15/16	7/16
OS-5518*	-	9/16	3 1/4	13/16	27/32	7/16
5520	5520-D	5/8	3 1/4	7/8	15/16	7/16
5522	5522-D	11/16	3 1/4	15/16	15/16	7/16
5524	5524-D	3/4	3 1/4	1 1/32	1 1/8	15/32
5526	5526-D	13/16	3 1/2	1 1/8	1 1/8	17/32
5528	5528-D	7/8	3 1/2	1 3/16	1 1/4	9/16
5530	5530-D	15/16	3 1/2	1 1/4	1 1/4	5/8
5532	5532-D	1	3 1/2	1 3/8	1 3/8	5/8
5534	5534-D	1 1/16	3 1/2	1 7/16	1 7/16	11/16

## Magnetic, Standard Length



Part Number Fixed Magnet	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
M-5108	1/4	1 1/2	7/16	15/16	5/32
M-5110	5/16	1 1/2	1/2	15/16	3/16
M-5112	3/8	1 1/2	5/8	15/16	1/4
M-5114	7/16	1 1/2	11/16	15/16	9/32
M-5116	1/2	1 1/2	13/16	15/16	11/32
MSH-335	1/2	1 1/2	45/64	15/16	11/32
M-5118	9/16	1 1/2	7/8	15/16	7/16
MSH-336	9/16	1 1/2	27/32	15/16	7/16
M-5120	5/8	1 1/2	1	1	7/16
M-5122	11/16	1 1/2	1 1/8	1 1/8	7/16
M-5124	3/4	1 1/2	1 1/8	1 1/8	15/32
M-5126	13/16	1 1/2	1 1/4	1 1/4	17/32

## Magnetic, Thin Wall, Standard Length



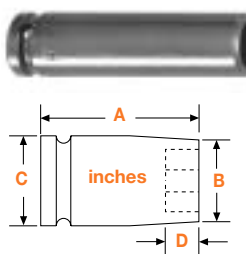
Part Number Fixed Magnet	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
M-5412	3/8	1 1/2	19/32	15/16	1/4
M-5414	7/16	1 1/2	21/32	15/16	9/32
M-5416	1/2	1 1/2	23/32	15/16	11/32
M-5418	9/16	1 1/2	13/16	15/16	7/16
M-5420	5/8	1 1/2	7/8	15/16	7/16

\* No ring groove.

# 1/2" Square Drive Sockets, SAE



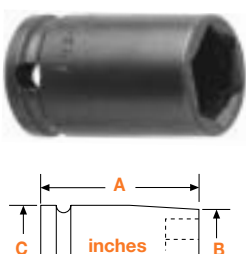
## Magnetic, Long Length and Extra Long Length



Part Number 6 Point	Part No. Magnetic Bolt Clearance	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
-	MB-5210	5/16	2 1/4	5/8	15/16	1/4
-	MB-5212	3/8	2 1/4	5/8	15/16	1/4
M-5512*	-	3/8	3 1/4	19/32	15/16	1/4
-	MB-5214	7/16	2 1/4	11/16	15/16	9/32
M-5216	MB-5216	1/2	2 1/4	13/16	15/16	11/32
M-5316	-	1/2	3 1/4	13/16	15/16	11/32
M-5218	-	9/16	2 1/4	7/8	15/16	7/16
-	MB-HE9518	9/16	2 1/4	7/8	15/16	7/16
M-5318	-	9/16	3 1/4	7/8	15/16	7/16
M-5518*	-	9/16	3 1/4	13/16	15/16	7/16
M-5220	MB-5220	5/8	2 1/4	1	1	7/16

\*Thin Wall

## Surface Drive and Fast Lead, Standard Length



Part Number 6 Point	Part Number Fast Lead	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-5112	FL-5112	3/8	1 1/2	5/8	15/16	1/4
SF-5114	FL-5114	7/16	1 1/2	11/16	15/16	9/32
SF-5116	FL-5116	1/2	1 1/2	13/16	15/16	11/32
SF-SH-335	FL-SH-335	1/2	1 1/2	45/64	15/16	11/32
SF-5118	FL-5118	9/16	1 1/2	7/8	15/16	7/16
SF-SH-336	FL-SH-336	9/16	1 1/2	27/32	15/16	7/16
SF-5120	FL-5120	5/8	1 1/2	1	1	7/16
-	FL-SH-338	5/8	1 1/2	15/16	1	7/16
SF-5122	FL-5122	11/16	1 1/2	1 1/8	1 1/8	7/16
SF-5124	FL-5124	3/4	1 1/2	1 1/8	1 1/8	15/32
SF-SW-282	FL-SW-282	3/4	1 1/2	1 1/4	1 1/4	15/32
SF-5126	FL-5126	13/16	1 1/2	1 1/4	1 1/4	17/32
SF-5128	FL-5128	7/8	1 1/2	1 5/16	1 5/16	9/16
SF-5130	FL-5130	15/16	1 1/2	1 3/8	1 3/8	5/8
SF-5132	FL-5132	1	1 1/2	1 1/2	1 1/2	5/8
SF-5134	FL-5134	1 1/16	1 5/8	1 1/2	1 1/2	11/16

## Surface Drive and Fast Lead, Thin Wall, Standard Length

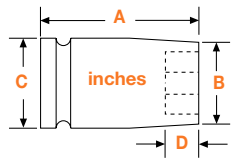


Part Number 6 Point	Part Number Fast Lead	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-5412	-	3/8	1 1/2	19/32	15/16	1/4
SF-5414	FL-5414	7/16	1 1/2	21/32	15/16	9/32
SF-5416	FL-5416	1/2	1 1/2	23/32	15/16	11/32
SF-5418	FL-5418	9/16	1 1/2	13/16	15/16	7/16
SF-5420	-	5/8	1 1/2	7/8	15/16	7/16
SF-5422	-	11/16	1 1/2	15/16	15/16	7/16
SF-5424	-	3/4	1 1/2	1 1/32	1 1/8	15/32
SF-5426	-	13/16	1 1/2	1 1/8	1 1/8	17/32

# 1/2" Square Drive Sockets, SAE

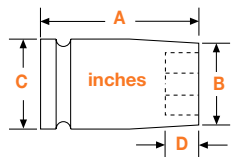


## Surface Drive and Fast Lead, Long and Extra Long Length



Part Number 6 Point	Part Number Fast Lead	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-5212	-	3/8	2 1/4	9/16	15/16	9/32
SF-5214	FL-5214	7/16	2 1/4	11/16	15/16	9/32
SF-5216	FL-5216	1/2	2 1/4	13/16	15/16	11/32
SF-5316	FL-5316	1/2	3 1/4	13/16	15/16	11/32
SF-HE9518	FL- HE9518	9/16	2 1/4	7/8	7/8	7/16
SF-5218	FL-5218	9/16	2 1/4	7/8	15/16	7/16
SF-5318	FL-5318	9/16	3 1/4	7/8	15/16	7/16
SF-5220	FL-5220	5/8	2 1/4	1	1	7/16
SF-5320	FL-5320	5/8	3 1/4	1	1	7/16
SF-5222	FL-5222	11/16	2 1/4	1 1/8	1 1/8	7/16
SF-5322	FL-5322	11/16	3 1/4	1 1/8	1 1/8	7/16
SF-5224	FL-5224	3/4	2 1/4	1 1/8	1 1/8	15/32
-	FL-SW-493	3/4	2 1/4	1 1/4	1 1/4	15/32
SF-5324	FL-5324	3/4	3 1/4	1 1/8	1 1/8	15/32
SF-5226	FL-5226	13/16	2 1/4	1 1/4	1 1/4	17/32
SF-5326	FL-5326	13/16	3 1/2	1 1/4	1 1/4	17/32
SF-5228	FL-5228	7/8	2 1/4	1 5/16	1 5/16	9/16
SF-5328	-	7/8	3 1/2	1 5/16	1 5/16	9/16
SF-5230	-	15/16	2 1/4	1 3/8	1 3/8	5/8
SF-5330	-	15/16	3 1/2	1 3/8	1 3/8	5/8
SF-5232	-	1	2 1/4	1 1/2	1 1/2	5/8
SF-5332	-	1	3 1/2	1 1/2	1 1/2	5/8
SF-5334	-	1 1/16	3 1/2	1 1/2	1 1/2	11/16

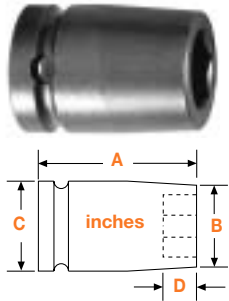
## Surface Drive, Thin Wall, Extra Long Length



Part Number Surface Drive	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-5514	7/16	3 1/4	21/32	15/16	9/32
SF-5516	1/2	3 1/4	23/32	15/16	11/32
SF-5518	9/16	3 1/4	13/16	15/16	7/16
SF-5520	5/8	3 1/4	7/8	15/16	7/16
SF-5522	11/16	3 1/4	15/16	15/16	7/16
SF-5524	3/4	3 1/4	1 1/32	1 1/8	15/32
SF-5526	13/16	3 1/4	1 1/8	1 1/8	17/32
SF-5528	7/8	3 1/2	1 3/16	1 1/4	9/16
SF-5532	1	3 1/2	1 3/8	1 3/8	5/8
SF-5534	1 1/16	3 1/2	1 7/16	1 7/16	11/16

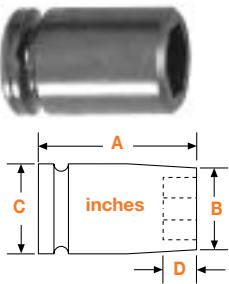
# 1/2" Square Drive Sockets For SAE Sheet Metal Screws

## 6 Point and 6 Point Magnetic, for Predrilled Holes\*



Part Number 6 Point	Part Number Magnetic	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
-	M5E08	1/4	1 1/2	7/16	15/16	5/32
5E10	M5E10	5/16	1 1/2	1/2	15/16	3/16
5E12	M5E12	3/8	1 1/2	5/8	15/16	1/4
5E14	M5E14	7/16	1 1/2	11/16	15/16	9/32
5E16	M5E16	1/2	1 1/2	13/16	15/16	11/32
5E18	M5E18	9/16	1 1/2	15/16	15/16	7/16

## 6 Point and 6 Point Magnetic, for Self-Tapping Screws\*

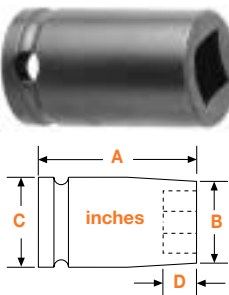


Part Number 6 Point	Part Number Magnetic	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
5P08	M5P08	1/4	1 1/2	7/16	15/16	5/32
-	M5P10	5/16	1 1/2	1/2	15/16	3/16
5P12	M5P12	3/8	1 1/2	5/8	15/16	1/4
5P14	M5P14	7/16	1 1/2	11/16	15/16	9/32
5P16	M5P16	1/2	1 1/2	13/16	15/16	11/32
5P18	M5P18	9/16	1 1/2	15/16	15/16	7/16

\*Sockets for predrilled holes are intermediate hardness; sockets for self-tapping screws are maximum hardness.

# 1/2" Square Drive Sockets For SAE Square Nuts

## Single Square and Double Square, Standard Length

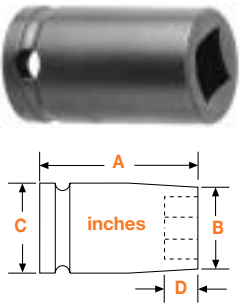


Part Number 4 Point	Part Number Double Square	Square Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
5608	5608-D	1/4	1 1/2	1/2	15/16	3/16
5609	5609-D	9/32	1 1/2	1/2	15/16	3/16
5610	5610-D	5/16	1 1/2	5/8	15/16	1/4
5612	5612-D	3/8	1 1/2	3/4	15/16	1/4
5614	5614-D	7/16	1 1/2	7/8	15/16	9/32
5616	5616-D	1/2	1 1/2	1	1	11/32
5618	5618-D	9/16	1 1/2	1 1/8	1 1/8	7/16
-	5619-D	19/32	1 1/2	1 1/8	1 1/8	7/16
5620	5620-D	5/8	1 1/2	1 1/4	1 1/4	7/16
5622	5622-D	11/16	1 1/2	1 1/4	1 1/4	7/16
5624	5624-D	3/4	1 1/2	1 3/8	1 3/8	15/32
5626	5626-D	13/16	1 1/2	1 1/2	1 1/2	17/32
5628	5628-D	7/8	1 1/2	1 5/8	1 5/8	5/8
5632	5632-D	1	1 5/8	1 3/4	1 3/4	5/8
5634	5634-D	1 1/16	1 3/4	1 7/8	1 7/8	11/16
5636	5636-D	1 1/8	1 3/4	2	2	3/4

# 1/2" Square Drive Sockets For SAE Square Nuts

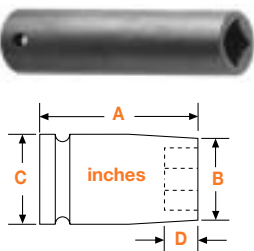


## Single Square and Double Square, Thin Wall, Standard Length



Part Number Square	Part Number Double Square	Square Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
5910	5910-D	5/16	1 1/2	19/32	15/16	1/4
5912	5912-D	3/8	1 1/2	11/16	15/16	1/4
5914	5914-D	7/16	1 1/2	25/32	15/16	9/32
5916	5916-D	1/2	1 1/2	15/16	15/16	11/32
5918	5918-D	9/16	1 1/2	1	1	7/16
5920	5920-D	5/8	1 1/2	1 3/32	1 1/8	7/16

## Single Square and Double Square, Long and Extra Long Length



Part Number Square	Part Number Double Square	Square Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
5712	-	3/8	2 1/4	3/4	15/16	1/4
5812	5812-D	3/8	3 1/4	3/4	15/16	1/4
5714	-	7/16	2 1/4	7/8	15/16	9/32
-	5814-D	7/16	3 1/4	7/8	15/16	9/32
5716	5716-D	1/2	2 1/4	1	1	11/32
-	5816-D	1/2	3 1/4	1	1	7/16
5718	-	9/16	2 1/4	1 1/8	1 1/8	7/16
5818	5818-D	9/16	3 1/4	1 1/8	1 1/8	7/16
5720	-	5/8	2 1/4	1 1/4	1 1/4	7/16
5820	5820-D	5/8	3 1/2	1 1/4	1 1/4	7/16
5822	5822-D	11/16	3 1/2	1 1/4	1 1/4	7/16
5724	5724-D	3/4	2 1/4	1 3/8	1 3/8	15/32
-	5826-D	13/16	3 1/2	1 1/2	1 1/2	17/32
5728	-	7/8	2 1/4	1 5/8	1 5/8	5/8
-	5828-D	7/8	3 1/2	1 5/8	1 5/8	5/8
5732	-	1	2 1/4	1 3/4	1 3/4	5/8
-	5830-D	15/16	3 1/2	1 5/8	1 5/8	5/8
5832	5832-D	1	3 1/2	1 3/4	1 3/4	5/8
-	5834-D	1 1/16	3 1/2	1 7/8	1 7/8	11/16
5836	5836-D	1 1/8	3 1/2	2	2	3/4

## 1/2" Square Drive Socket Sets, SAE

### 6 Point



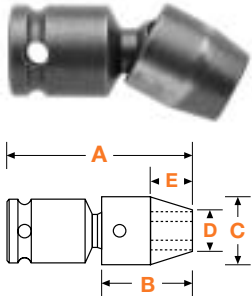
APS58	8 piece, standard length: 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16
APS510	10 piece, standard length: 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1
APS58XL	8 piece, extra long length: 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16



# Universal Wrenches 1/2" Square Drive, SAE



## 6 Point and Double Hex



Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A) In.	Socket Length (B) In.	Socket Diameter (C) In.	Nose End Diameter (D) In.	Clearance Depth (E) In.
SA-216	SA-216-D	3/8	2 11/64	7/8	7/8	9/16	11/32
SA-217	SA-217-D	7/16	2 15/64	15/16	7/8	5/8	13/32
SA-316	-	7/16	2 17/64	15/16	1	5/8	3/8
SA-218	SA-218-D	1/2	2 19/64	1	7/8	11/16	15/32
SA-317	-	1/2	2 31/64	1	1	11/16	7/16
SA-219	SA-219-D	9/16	2 23/64	1 1/16	7/8	3/4	17/32
SA-318	SA-318-D	9/16	2 29/64	1 1/8	1	3/4	9/16
SA-221	SA-221-D	5/8	2 27/64	1 1/8	7/8	7/8	19/32
SA-320	SA-320-D	5/8	2 33/64	1 3/16	1	27/32	5/8
SA-402	SA-402-D	5/8	2 49/64	1 1/4	1 1/4	7/8	33/64
SA-321	SA-321-D	11/16	2 37/64	1 1/4	1	1	11/16
SA-322	SA-322-D	3/4	2 37/64	1 1/4	1 1/8	1 1/8	11/16
SA-404	SA-404-D	3/4	2 57/64	1 3/8	1 1/4	1 1/32	5/8
SA-501	-	3/4	3 1/32	1 5/8	1 1/2	1 1/8	25/32
SA-406	-	13/16	2 57/64	1 3/8	1 1/4	1 1/8	41/64
SA-407	-	7/8	2 57/64	1 3/8	1 3/16	1 5/16	41/64
SA-409	SA-409-D	15/16	2 57/64	1 3/8	1 5/16	1 5/16	41/64
SA-505	-	15/16	3 5/32	1 3/4	1 1/2	1 3/8	29/32
SA-410	-	1	2 61/64	1 7/16	1 1/2	1 1/2	45/64
SA-411	-	1 1/16	3 1/64	1 1/2	1 1/2	1 1/2	49/64
SA-508	-	1 1/8	3 9/32	1 7/8	1 5/8	1 5/8	1 1/32
SA-510	-	1 1/4	3 13/32	2	1 3/4	1 3/4	1 5/32

Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

# 1/2" Square Drive Universal Wrench Set, SAE

## 6 Point



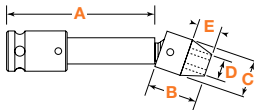
APU56

6 piece, standard length: 7/16, 1/2, 9/16, 5/8, 11/16, 3/4

# Universal Wrenches 1/2" Square Drive, SAE - Extension



## 6 Point, Standard and Tension Type





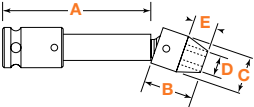
Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

Actual design of universal wrenches may not be exactly like pictures above.

Part Number Standard	Part Number Tension	Hex Opening In.	Shank Length (A) In.	Socket Length (B) In.	Socket Diameter (C) In.	Nose End Diameter (D) In.	Opening Depth (E) In.
KH-43-3	-	3/8	3	13/16	5/8	17/32	7/16
KH-43-6	KN-43-6	3/8	6	13/16	5/8	17/32	7/16
-	KN-43-9	3/8	9	13/16	5/8	17/32	7/16
KH-44-4	KN-44-4	7/16	4	7/8	5/8	5/8	1/2
KH-44-6	KN-44-6	7/16	6	7/8	5/8	5/8	1/2
-	KN-44-12	7/16	12	7/8	5/8	5/8	1/2
KH-45-3	-	1/2	3	7/8	11/16	11/16	1/2
KH-45-4	-	1/2	4	7/8	11/16	11/16	1/2
KH-45-6	KN-45-6	1/2	6	7/8	11/16	11/16	1/2
-	KN-45-9	1/2	9	7/8	11/16	11/16	1/2
KH-104-3	-	1/2	3	1	3/4	3/4	9/16
KH-104-4	-	1/2	4	1	3/4	3/4	9/16
KH-104-6	KN-104-6	1/2	6	1	3/4	3/4	9/16
KH-104-9	KN-104-9	1/2	9	1	3/4	3/4	9/16
-	KN-104-12	1/2	12	1	3/4	3/4	9/16
KH-202-6	KN-202-6	1/2	6	1	7/8	11/16	15/32
-	KN-202-8	1/2	9	1	7/8	11/16	15/32
KH-202-12	KN-202-12	1/2	12	1	7/8	11/16	15/32
KH-105-3	-	9/16	3	1	3/4	13/16	9/16
KH-105-4	-	9/16	4	1	3/4	13/16	9/16
KH-105-6	KN-105-6	9/16	6	1	3/4	13/16	9/16
-	KN-105-9	9/16	9	1	3/4	13/16	9/16
KH-105-12	KN-105-12	9/16	12	1	3/4	13/16	9/16
KH-203-3	-	9/16	3	1 1/16	7/8	3/4	17/32
KH-203-4	-	9/16	4	1 1/16	7/8	3/4	17/32
KH-203-6	KN-203-6	9/16	6	1 1/16	7/8	3/4	17/32
KH-203-9	KN-203-9	9/16	9	1 1/16	7/8	3/4	17/32
KH-203-12	KN-203-12	9/16	12	1 1/16	7/8	3/4	17/32
KH-318-3	KN-318-3	9/16	3	1 1/8	1	3/4	9/16
-	KN-318-4	9/16	4	1 1/8	1	3/4	9/16
KH-318-6	KN-318-6	9/16	6	1 1/8	1	3/4	9/16
KH-205-3	-	5/8	3	1 1/8	7/8	7/8	19/32
KH-205-4	-	5/8	4	1 1/8	7/8	7/8	19/32
KH-205-6	KN-205-6	5/8	6	1 1/8	7/8	7/8	19/32
KH-205-9	KN-205-9	5/8	9	1 1/8	7/8	7/8	19/32
KH-205-12	KN-205-12	5/8	12	1 1/8	7/8	7/8	19/32

# Universal Wrenches 1/2" Square Drive, SAE - Extension

## 6 Point, Standard and Tension Type (continued)

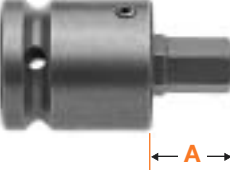
	Part Number Standard	Part Number Tension	Hex Opening In.	Shank Length (A) In.	Socket Length (B) In.	Socket Diameter (C) In.	Nose End Diameter (D) In.	Clearance Depth (E) In.
	KH-320-6	KN-320-6	5/8	6	1 3/16	1	27/32	5/8
	-	KN-320-12	5/8	12	1 3/16	1	27/32	5/8
	KH-321-4	-	11/16	4	1 1/4	1	1	11/16
	KH-321-6	KN-321-6	11/16	6	1 1/4	1	1	11/16
	-	KN-321-9	11/16	9	1 1/4	1	1	11/16
	KH-322-3	-	3/4	3	1 1/4	1 1/8	1 1/8	11/16
	KH-322-4	-	3/4	4	1 1/4	1 1/8	1 1/8	11/16
	KH-322-6	KN-322-6	3/4	6	1 1/4	1 1/8	1 1/8	11/16
	KH-322-9	KN-322-9	3/4	9	1 1/4	1 1/8	1 1/8	11/16
	KH-322-12	KN-322-12	3/4	12	1 1/4	1 1/8	1 1/8	11/16
	KH-404-4	-	3/4	4	1 3/8	1 1/4	1 1/32	41/64
	KH-404-6	KN-404-6	3/4	6	1 3/8	1 1/4	1 1/32	41/64
	-	KN-404-9	3/4	9	1 3/8	1 1/4	1 1/32	41/64
	KH-404-12	KN-404-12	3/4	12	1 3/8	1 1/4	1 1/32	41/64
	KH-409-3	-	15/16	3	1 3/8	1 5/16	1 5/16	41/64
	KH-409-4	-	15/16	4	1 3/8	1 5/16	1 5/16	41/64
KH-409-6	-	15/16	6	1 3/8	1 5/16	1 5/16	41/64	
KH-409-9	-	15/16	9	1 3/8	1 5/16	1 5/16	41/64	
KH-409-12	-	15/16	12	1 3/8	1 5/16	1 5/16	41/64	

Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

Actual design of universal wrenches may not be exactly like pictures above.

# 1/2" Square Drive Socket Head Bits, SAE

## Complete, Adapter Only, Insert Only

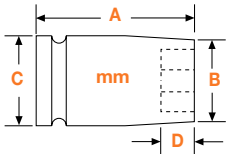
	Part Number			Hex Size	Overall Length	Length of Insert (A)		
	Complete	Adapter Only	Insert Only			In.	mm	
	SZ-22	SC-514	SZ-14-A	1/4	2 1/2	64	1 3/8	35
	SZ-23	SC-514	SZ-15-A	5/16	2 1/2	64	1 3/8	35
	SZ-24	SC-514	SZ-16-A	3/8	2 1/2	64	1 3/8	35
	SZ-25	SC-514	SZ-17-A	1/2	2 1/2	64	1 3/8	35
	SZ-42	SC-520	SZ-31-A	1/2	2 1/2	64	1 9/16	35
	SZ-43	SC-514	SZ-18-A	9/16	2 1/2	64	1 3/8	35
	SZ-44	SC-520	SZ-32-A	9/16	2 1/2	64	1 9/16	35
	SZ-26	SC-514	SZ-19-A	5/8	2 1/2	64	1 3/8	35

For a complete listing, see Page 38.  
Adapters with an "SC" prefix feature a set screw for locking in the bit.  
An "RP" prefix indicates adapters with a roll pin that is inserted through the bit.

# 1/2" Square Drive Sockets, Metric

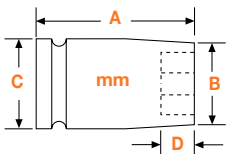


## 6 Point and Double Hex, Standard Length



Part Number 6 Point	Part Number Double Hex	Hex Opening mm.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
10mm15	10mm15-D	10	38.1	16.7	23.8	6.4
11mm15	11mm15-D	11	38.1	17.5	23.8	7.2
12mm15	12mm15-D	12	38.1	19.1	23.8	7.2
13mm15	13mm15-D	13	38.1	22.2	23.8	8.7
14mm15	14mm15-D	14	38.1	22.2	23.8	11.1
15mm15	15mm15-D	15	38.1	23.8	23.8	11.1
16mm15	16mm15-D	16	38.1	25.4	25.4	11.1
17mm15	17mm15-D	17	38.1	28.6	28.6	11.1
18mm15	18mm15-D	18	38.1	28.6	28.6	11.1
19mm15	19mm15-D	19	38.1	28.6	28.6	11.9
20mm15	20mm15-D	20	38.1	31.7	31.7	11.9
21mm15	21mm15-D	21	38.1	31.7	31.7	13.5
22mm15	22mm15-D	22	38.1	33.3	33.3	14.3
23mm15	23mm15-D	23	38.1	34.9	34.9	15.9
24mm15	24mm15-D	24	38.1	34.9	34.9	15.9
25mm15	25mm15-D	25	38.1	38.1	38.1	15.9
26mm15	26mm15-D	26	38.1	38.1	38.1	15.9
27mm15	27mm15-D	27	41.3	41.3	41.3	17.5
28mm15	28mm15-D	28	41.3	41.3	41.3	19.1
29mm15	29mm15-D	29	41.3	44.4	44.4	19.1
30mm15	30mm15-D	30	41.3	44.4	44.4	19.1
32mm15	32mm15-D	32	44.4	44.4	44.4	20.6
33mm15	-	33	44.4	47.6	47.6	20.6
34mm15	-	34	47.6	47.5	47.5	20.5
35mm15	-	35	47.6	50.8	50.8	20.6
36mm15	-	36	47.6	50.8	50.8	23.8

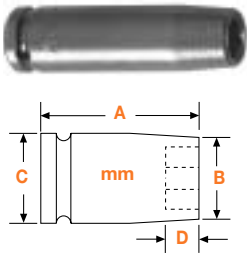
## 6 Point and Double Hex, Thin Wall, Standard Length



Part Number 6 Point	Part Number Double Hex	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
10mm45	10mm45-D	10	38.1	15.9	23.8	6.4
11mm45	11mm45-D	11	38.1	16.7	23.8	7.2
12mm45	12mm45-D	12	38.1	17.5	23.8	7.2
13mm45	13mm45-D	13	38.1	18.7	23.8	8.7
14mm45	14mm45-D	14	38.1	20.6	23.8	11.1
15mm45	15mm45-D	15	38.1	22.2	23.8	11.1
16mm45	16mm45-D	16	38.1	22.2	23.8	11.1
17mm45	17mm45-D	17	38.1	23.8	23.8	11.1
18mm45	18mm45-D	18	38.1	25.4	25.4	11.1
19mm45	19mm45-D	19	38.1	26.3	26.3	11.9
20mm45	-	20	38.1	27.0	28.6	11.9
21mm45	21mm45-D	21	38.1	28.6	28.6	13.5
22mm45	22mm45-D	22	38.1	30.2	31.7	14.3

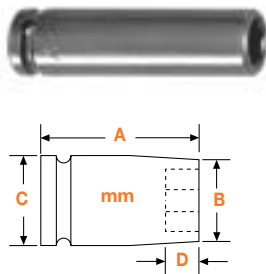
# 1/2" Square Drive Sockets, Metric

## 6 Point and Double Hex, Long Length



Part Number 6 Point	Part Number Double Hex	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
10mm25	10mm25-D	10	57.1	16.7	23.8	6.4
11mm25	11mm25-D	11	57.1	17.5	23.8	7.2
12mm25	12mm25-D	12	57.1	19.1	23.8	7.2
13mm25	13mm25-D	13	57.1	22.2	23.8	8.7
14mm25	-	14	57.1	22.2	23.8	11.1
15mm25	15mm25-D	15	57.1	23.8	23.8	11.1
16mm25	16mm25-D	16	57.1	25.4	25.4	11.1
17mm25	17mm25-D	17	57.1	28.6	28.6	11.1
18mm25	18mm25-D	18	57.1	28.6	28.6	11.1
19mm25	19mm25-D	19	57.1	28.6	28.6	11.9
20mm25	20mm25-D	20	57.1	31.7	31.7	11.9
21mm25	21mm25-D	21	57.1	31.7	31.7	13.5
22mm25	22mm25-D	22	57.1	33.3	33.3	14.3
23mm25	23mm25-D	23	57.1	34.9	34.9	15.9
24mm25	24mm25-D	24	57.1	34.9	34.9	15.9
25mm25	-	25	57.1	38.1	38.1	15.9
26mm25	-	26	57.1	38.1	38.1	15.9
27mm25	-	27	60.3	41.3	41.3	17.5
28mm25	-	28	60.3	41.3	41.3	19.1
29mm25	29mm25-D	29	60.3	44.4	44.4	19.1
30mm25	30mm25-D	30	60.3	44.4	44.4	19.1
32mm25	-	32	63.5	44.4	44.4	20.6

## 6 Point and Double Hex, Extra Long Length

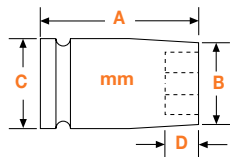


Part Number 6 Point	Part Number Double Hex	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
10mm35	10mm35-D	10	82.5	16.7	23.8	6.4
11mm35	11mm35-D	11	82.5	17.5	23.8	7.2
12mm35	12mm35-D	12	82.5	19.1	23.8	7.2
13mm35	13mm35-D	13	82.5	22.2	23.8	8.7
14mm35	14mm35-D	14	82.5	22.2	23.8	11.1
15mm35	15mm35-D	15	82.5	23.8	23.8	11.1
16mm35	16mm35-D	16	82.5	25.4	25.4	11.1
17mm35	17mm35-D	17	82.5	28.6	28.6	11.1
18mm35	18mm35-D	18	82.5	28.6	28.6	11.1
19mm35	19mm35-D	19	82.5	28.6	28.6	11.9
20mm35	20mm35-D	20	88.9	31.7	31.7	11.9
21mm35	21mm35-D	21	88.9	31.7	31.7	13.5
22mm35	22mm35-D	22	88.9	33.3	33.3	14.3
23mm35	-	23	88.9	34.9	34.9	15.9
24mm35	24mm35-D	24	88.9	34.9	34.9	15.9
25mm35	-	25	88.9	38.1	38.1	15.9

# 1/2" Square Drive Sockets, Metric

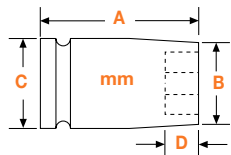


## 6 Point and Double Hex, Thin Wall, Extra Long Length



Part Number 6 Point	Part Number Double Hex	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
10mm55	10mm55-D	10	82.5	15.9	23.8	6.4
11mm55	-	11	82.5	16.7	23.8	7.2
12mm55	12mm55-D	12	82.5	17.5	23.8	7.2
13mm55	13mm55-D	13	82.5	18.7	23.8	8.7
14mm55	14mm55-D	14	82.5	20.6	23.8	11.1
15mm55	15mm55-D	15	82.5	22.2	23.8	11.1
16mm55	16mm55-D	16	82.5	22.2	23.8	11.1
17mm55	17mm55-D	17	82.5	23.8	23.8	11.1
18mm55	18mm55-D	18	82.5	25.4	25.4	11.1
19mm55	19mm55-D	19	82.5	26.3	26.3	11.9
20mm55	-	20	82.5	28.6	28.6	11.9
21mm55	21mm55-D	21	88.9	28.6	28.6	13.5
22mm55	22mm55-D	22	88.9	30.2	31.7	14.3
23mm55	-	23	88.9	31.7	31.7	15.9
24mm55	24mm55-D	24	88.9	33.3	33.3	15.9
26mm55	-	26	88.9	34.9	34.9	15.9
27mm55	27mm55-D	27	88.9	36.5	38.1	17.5
28mm55	-	28	88.9	36.5	38.1	19.1
29mm55	-	29	88.9	38.1	38.1	19.1
30mm55	-	30	88.9	39.7	41.1	19.1
32mm55	-	32	88.9	42.9	42.9	20.6

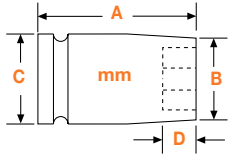
## Magnetic, Standard Length



Part Number Fixed Magnet	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
M-10mm15	10	38.1	16.7	23.8	6.4
M-11mm15	11	38.1	17.5	23.8	7.2
M-12mm15	12	38.1	19.1	23.8	7.2
M-13mm15	13	38.1	22.2	23.8	8.7
M-14mm15	14	38.1	22.2	23.8	11.1
M-15mm15	15	38.1	23.8	23.8	11.1
M-16mm15	16	38.1	25.4	25.4	11.1
M-17mm15	17	38.1	28.6	28.6	11.1
M-18mm15	18	38.1	28.5	28.5	11.1
M-19mm15	19	38.1	28.6	28.6	11.9
M-21mm15	21	38.1	31.7	31.7	13.5

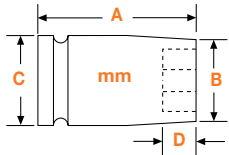
# 1/2" Square Drive Sockets, Metric

## Magnetic, Thin Wall, Standard Length



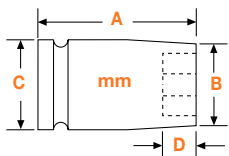
Part Number Fixed Magnet	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
M-10mm45	10	38.1	15.9	23.8	6.4
M-11mm45	11	38.1	16.7	23.8	7.2
M-12mm45	12	38.1	17.4	23.8	7.2
M-13mm45	13	38.1	18.7	23.8	8.7
M-14mm45	14	38.1	20.6	23.8	11.1
M-15mm45	15	38.1	22.2	23.8	11.1
M-16mm45	16	38.1	22.2	23.8	11.1

## Magnetic, Long Length



Part No. Fixed Magnet	Part No. Magnetic Bolt Clearance	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
-	MB-10mm25	10	57.1	16.7	23.8	6.4
-	MB-12mm25	12	57.1	19.1	23.8	7.2
M-13mm25	MB-13mm25	13	57.1	22.2	23.8	8.7
-	MB-14mm25	14	57.1	22.2	23.8	11.1
M-15mm25	MB-15mm25	15	57.1	23.8	23.8	11.1
-	MB-16mm25	16	57.1	25.4	25.4	11.1
M-18mm25	MB-18mm25	18	57.1	28.6	28.5	11.1

## Magnetic, Extra Long Length



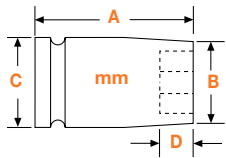
Part No. Fixed Magnet	Part No. Magnetic Bolt Clearance	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
M-12mm35	-	12	82.5	19.1	23.8	7.2
M-13mm35	-	13	82.5	22.2	23.8	8.7
M-13mm55*	-	13	82.5	18.7	23.8	8.7
M-15mm35	MB-15mm35	15	82.5	23.8	23.8	11.1
M-18mm35	MB-18mm35	18	82.5	28.6	28.6	11.1
M-18mm55*	-	18	82.5	25.4	25.4	11.1

\*Thin Wall

# 1/2" Square Drive Sockets, Metric

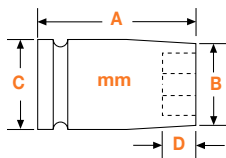


## Surface Drive, Standard Length



Part Number Surface Drive	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-10mm15	10	38.1	16.7	23.8	6.4
SF-11mm15	11	38.1	17.5	23.8	7.2
SF-12mm15	12	38.1	19.1	23.8	7.2
SF-13mm15	13	38.1	22.2	23.8	8.7
SF-14mm15	14	38.1	22.2	23.8	11.1
SF-15mm15	15	38.1	23.8	23.8	11.1
SF-16mm15	16	38.1	25.4	25.4	11.1
SF-17mm15	17	38.1	28.6	28.6	11.1
SF-18mm15	18	38.1	28.6	28.6	11.1
SF-19mm15	19	38.1	28.6	28.6	11.9
SF-20mm15	20	38.1	31.7	31.7	11.9
SF-21mm15	21	38.1	31.7	31.7	13.5
SF-22mm15	22	38.1	33.3	33.3	14.3
SF-23mm15	23	38.1	34.9	34.9	15.9
SF-24mm15	24	38.1	34.9	34.9	15.9

## Surface Drive, Thin Wall, Standard Length



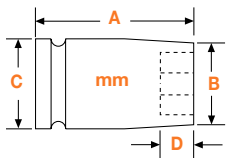
Part Number Surface Drive	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-10mm45	10	38.1	15.9	23.8	6.4
SF-11mm45	11	38.1	16.7	23.8	7.2
SF-12mm45	12	38.1	17.5	23.8	7.2
SF-13mm45	13	38.1	18.7	23.8	8.7
SF-14mm45	14	38.1	20.6	23.8	11.1
SF-15mm45	15	38.1	22.2	23.8	11.1
SF-16mm45	16	38.1	22.2	23.8	11.1
SF-17mm45	17	38.1	23.8	23.8	11.1
SF-18mm45	18	38.1	25.4	25.4	11.1
SF-19mm45	19	38.1	26.3	26.3	11.9
SF-21mm45	21	38.1	28.6	28.6	11.9
SF-22mm45	22	38.1	30.2	31.7	11.9



# 1/2" Square Drive Sockets, Metric

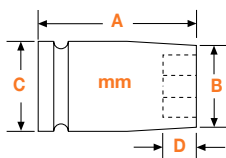


## Surface Drive, Long Length



Part Number Surface Drive	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-10mm25	10	57.1	16.7	23.8	6.4
SF-11mm25	11	57.1	17.5	23.8	7.2
SF-12mm25	12	57.1	19.1	23.8	7.2
SF-13mm25	13	57.1	22.2	23.8	7.2
SF-14mm25	14	57.1	22.2	23.8	11.1
SF-15mm25	15	57.1	23.8	23.8	11.1
SF-16mm25	16	57.1	25.4	25.4	11.1
SF-17mm25	17	57.1	28.6	28.6	11.1
SF-18mm25	18	57.1	28.6	28.6	11.1
SF-19mm25	19	57.1	28.6	28.6	11.9
SF-21mm25	21	57.1	31.7	31.7	13.5
SF-22mm25	22	57.1	33.3	33.3	14.3
SF-23mm25	23	57.1	34.9	34.9	15.9
SF-24mm25	24	57.1	34.9	34.9	15.9

## Surface Drive, Extra Long Length

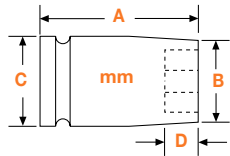


Part Number Surface Drive	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-10mm35	10	82.5	16.7	23.8	6.4
SF-12mm35	12	82.5	17.5	23.8	7.2
SF-13mm35	13	82.5	19.1	23.8	7.2
SF-14mm35	14	82.5	22.2	23.8	11.1
SF-15mm35	15	82.5	23.8	23.8	11.1
SF-16mm35	16	82.5	25.4	25.4	11.1
SF-17mm35	17	82.5	28.6	28.6	11.1
SF-18mm35	18	82.5	28.6	28.6	11.1
SF-19mm35	19	82.5	28.6	28.6	11.9
SF-21mm35	21	88.9	31.7	31.7	13.5
SF-22mm35	22	88.9	33.3	33.3	14.3
SF-23mm35	23	88.9	34.9	34.9	15.9
SF-24mm35	24	88.9	34.9	34.9	15.9

# 1/2" Square Drive Sockets, Metric



## Surface Drive, Thin Wall, Extra Long Length



Part Number Surface Drive	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-10mm55	10	82.5	15.9	23.8	6.4
SF-11mm55	11	82.5	16.7	23.8	7.2
SF-12mm55	12	82.5	17.5	23.8	7.2
SF-13mm55	13	82.5	18.7	23.8	8.7
SF-14mm55	14	82.5	20.6	23.8	11.1
SF-15mm55	15	82.5	22.2	23.8	11.1
SF-16mm55	16	82.5	22.2	23.8	11.1
SF-17mm55	17	82.5	23.8	23.8	11.1
SF-18mm55	18	82.5	25.4	25.4	11.1
SF-19mm55	19	82.5	26.3	26.3	11.9
SF-21mm55	21	88.9	28.6	28.6	13.5
SF-22mm55	22	88.9	30.2	31.7	15.9
SF-24mm55	24	88.9	33.3	33.3	15.9

## 1/2" Square Drive Sockets For Metric Sheet Metal Screws

### 6 Point and 6 Point Magnetic, For Regular Screws



Part Number 6 Point	Part Number Magnetic	Hex Opening mm.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
13mmE5	M-13mmE5	13	38.1	22.2	23.8	8.7
15mmE5	M-15mmE5	15	38.1	23.8	23.8	11.1

## 1/2" Square Drive Socket Sets, Metric

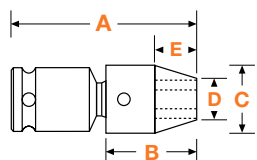
### 6 Point



APS58M 8 piece, standard length: 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 21mm  
 APS511M 11 piece, standard length: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 21mm  
 APS58XLM 8 piece, extra long length: 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 21mm

## 1/2" Square Drive Universal Wrenches, Metric

### 6 Point

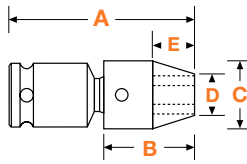


Part Number 6 Point	Hex Opening mm	Overall Length (A) mm	Socket Length (B) mm	Socket Diameter (C) mm	Nose End Diameter (D) mm	Clearance Depth (E) mm
SA-57-13m	13	58	25.4	22.2	17.5	11.9
SA-57-14m	14	60	27.0	22.2	19.1	13.5
SA-58-15m	15	62	28.6	25.4	19.8	14.3
SA-58-16m	16	64	30.2	25.4	21.4	15.9
SA-58-17m	17	66	31.8	25.4	25.4	17.5
SA-58-18m	18	66	31.8	25.4	25.4	17.5

# 1/2" Sq. Dr. Universal Wrenches, Metric



## 6 Point (continued)



Part Number 6 Point	Hex Opening mm	Overall Length (A) mm	Socket Length (B) mm	Socket Diameter (C) mm	Nose End Diameter (D) mm	Clearance Depth (E) mm
SA-510-19m	19	73	34.9	31.8	26.2	16.3
SA-510-20m	20	73	34.9	31.8	27.0	16.3
SA-510-21m	21	73	34.9	31.8	28.6	16.3
SA-510-22m	22	73	34.9	31.8	31.8	16.3
SA-510-23m	23	73	34.9	31.8	33.3	16.3
SA-510-24m	24	73	34.9	31.8	34.9	16.3

# 1/2" Square Drive Universal Wrench Set, Metric

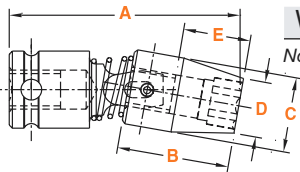
## 6 Point



APU56M 6 piece, standard length: 13mm, 14mm, 15mm, 16mm, 17mm, 18mm

# 1/2" Square Drive Wobble Sockets, Metric

## Surface Drive



Part Number	Hex Opening mm	Overall Length (A) mm	Socket Length (B) mm	Socket Diameter (C) mm	Nose End Diameter (D) mm	Clearance Depth (E) mm
WSESF-13mm-B1.50	13	74.5	38.1	23.8	22.2	25.0
WSESF-15mm-B1.50	15	74.5	38.1	23.8	23.8	25.0
WSESF-18mm-B1.50	18	74.5	38.1	28.6	28.6	25.0
WSESF-21mm-B1.50	21	74.5	38.1	31.8	31.8	25.0

Not to be used with impact drivers. Actual design of wobble socket may not be exactly like picture at left.

# 1/2" Square Drive Universal Wrenches, Metric - Ext.

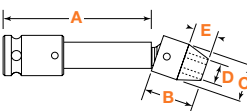
## 6 Point, Standard and Tension Type



Tension Type



Standard Type






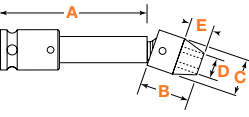



Part Number Standard	Part Number Tension	Hex Opening mm	Shank Length (A) mm	Socket Length (B) mm	Socket Diameter (C) mm	Nose End Diameter (D) mm	Clearance Depth (E) mm
KH-7-12m-4	-	12	102	23.8	22.2	17.5	10.3
KH-7-12m-6	KN-7-12m-6	12	152	23.8	22.2	17.5	10.3
-	KN-7-12m-9	12	229	23.8	22.2	17.5	10.3
KH-7-13m-3	-	13	76	25.4	22.2	17.5	11.9
KH-7-13m-4	-	13	102	25.4	22.2	17.5	11.9
KH-7-13m-6	KN-7-13m-6	13	152	25.4	22.2	17.5	11.9

Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

# 1/2" Square Drive Universal Wrenches, Metric - Extension



## 6 Point, Standard and Tension Type (continued)

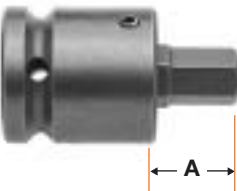




	Part Number Standard	Part Number Tension	Hex Opening mm	Shank Length (A) mm	Socket Length (B) mm	Socket Diameter (C) mm	Nose End Diameter (D) mm	Clearance Depth (E) mm
	KH-7-13m-9	KN-7-13m-9	13	229	25.4	22.2	17.5	11.9
	KH-7-13m-12	KN-7-13m-12	13	305	25.4	22.2	17.5	11.9
	KH-7-14m-4	-	14	102	27.0	22.2	19.1	13.5
	KH-7-14m-6	KN-7-14m-6 	14	152	27.0	22.2	19.1	13.5
	-	KN-7-14m-9	14	229	27.0	22.2	19.1	13.5
	KH-8-15m-3	-	15	76	28.6	25.4	19.8	14.3
	KH-8-15m-6	KN-8-15m-6 	15	152	28.6	25.4	19.8	14.3
	KH-8-15m-9	KN-8-15m-9	15	229	28.6	25.4	19.8	14.3
	KH-8-15m-12	KN-8-15m-12	15	305	28.6	25.4	19.8	14.3
	KH-8-16m-3	-	16	76	30.2	25.4	21.4	15.9
	KH-8-16m-4	-	16	102	30.2	25.4	21.4	15.9
	KH-8-16m-6	KN-8-16m-6 	16	152	30.2	25.4	21.4	15.9
	KH-8-16m-9	KN-8-16m-9	16	229	30.2	25.4	21.4	15.9
	KH-8-16m-12	KN-8-16m-12	16	305	30.2	25.4	21.4	15.9
	KH-8-17m-3	-	17	76	31.8	25.4	25.4	17.5
	KH-8-17m-4	-	17	102	31.8	25.4	25.4	17.5
	KH-8-17m-6	KN-8-17m-6	17	152	31.8	25.4	25.4	17.5
	KH-8-17m-9	KN-8-17m-9	17	229	31.8	25.4	25.4	17.5
	KH-8-18m-3	-	18	76	31.8	25.4	25.4	17.5
	KH-8-18m-4	-	18	102	31.8	25.4	25.4	17.5
	KH-8-18m-6 	KN-8-18m-6	18	152	31.8	25.4	25.4	17.5
	KH-8-18m-9	KN-8-18m-9	18	229	31.8	25.4	25.4	17.5
	-	KN-8-18m-12	18	305	31.8	25.4	25.4	17.5
	KH-10-19m-3	-	19	76	34.9	31.8	26.2	16.3
	KH-10-19m-4	-	19	102	34.9	31.8	26.2	16.3
	KH-10-19m-6	-	19	152	34.9	31.8	26.2	16.3
	KH-10-19m-9	-	19	229	34.9	31.8	26.2	16.3
	KH-10-19m-12	-	19	305	34.9	31.8	26.2	16.3

Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.


Actual design of universal wrenches may not be exactly like pictures above.

# 1/2" Square Drive Socket Head Bits, Metric

## Complete, Adapter Only, Insert Only

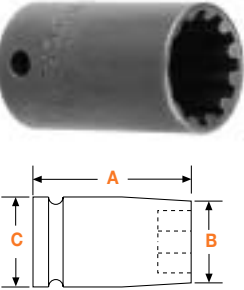
	Part Number			Hex Size	Overall Length		Length of Insert (A)	
	Complete	Adapter Only	Insert Only		In.	mm	In.	mm
	SZ-5-7-8mm	SC-514 	SZ-7-8mm	8mm	2 1/2	64	1 3/8	35
	SZ-5-7-10mm	SC-514 	SZ-7-10mm	10mm	2 1/2	64	1 3/8	35
	SZ-5-7-12mm	SC-514 	SZ-7-12mm	12mm	2 1/2	64	1 3/8	35
	SZ-5-7-14mm	SC-514 	SZ-7-14mm	14mm	2 1/2	64	1 3/8	35
	SZ-5-10-14mm	RP-520	SZ-10-14mm	14mm	2 1/2	64	1 9/16	40
	SZ-5-10-17mm	RP-520	SZ-10-17mm	17mm	2 1/2	64	1 9/16	40

For a complete listing, see page 38.

 Refer to Page iv for description of Rapid Select.

# 1/2" Square Drive Sockets For Spline Fasteners

## Standard and Long Length

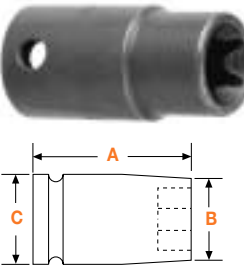


Part Number	Spline Size	Nominal Size	Overall Length (A)		Diameter Nose End (B)		Diameter Drive End (C)	
			In.	mm	In.	mm	In.	mm
CMS-5416	16	1/2	1 1/4	32	23/32	18	7/8	22
CMS-5420	20	5/8	1 1/2	38	7/8	22	7/8	22
CMS-5422	22	11/16	1 1/2	38	31/32	25	31/32	25
CMS-5424	24	3/4	1 1/2	38	1 1/32	26	1 1/32	26
CMS-5426	26	13/16	1 1/2	38	1 1/8	29	1 1/8	29
CMS-5428	28	7/8	1 1/2	38	1 3/16	30	1 3/16	30
CMS-5430	30	15/16	1 1/2	38	1 1/4	32	1 1/4	32

Apex spline sockets conform to military specifications MS-37787 and MIL-W-8982C.

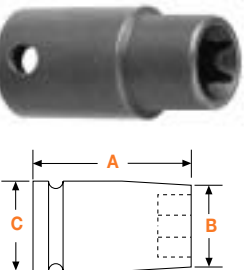
# 1/2" Square Drive Torx® Sockets

## For External Torx Screws



Part Number	Driver Size	Overall Length (A)		Diameter Nose End (B)		Diameter Drive End (C)	
		In.	mm	In.	mm	In.	mm
TX-5110	E-10	1 1/2	38	9/16	13	1	25
TX-5112	E-12	1 1/2	38	5/8	16	1	25
TX-5114	E-14	1 1/2	38	11/16	18	1	25
TX-5116	E-16	1 1/2	38	13/16	21	1	25
TX-5118	E-18	1 1/2	38	7/8	22	1	25
TX-5120	E-20	1 1/2	38	1	25	1 3/16	30
TX-5124	E-24	1 1/2	38	1 5/16	33	1 5/16	33

## For External Torx Screws, Thin Wall



Part Number	Driver Size	Overall Length (A)		Diameter Nose End (B)		Diameter Drive End (C)	
		In.	mm	In.	mm	In.	mm
TX-5408	E-8	1 1/2	38	3/8	10	7/8	22
TX-5410	E-10	1 1/2	38	1/2	13	7/8	22
TX-5412	E-12	1 1/2	38	9/16	14	7/8	22
TX-5414	E-14	1 1/2	38	5/8	16	7/8	22
TX-5416	E-16	1 1/2	38	7/8	22	7/8	22
TX-5418	E-18	1 1/2	38	15/16	24	15/16	24
TX-5420	E-20	1 1/2	38	1 1/16	27	1 1/16	27

Refer to Page iv for description of Rapid Select.

# 1/2" Square Drive Extensions



1 23/32" to 18" (44mm to 457mm) Length



Part Number	Male Square In.	Type of Lock	Overall Length	
			In.	mm
EX-504	1/2	Pin	1 23/32	44
EX-504-B	1/2	Ball	1 23/32	44
EX-508-2	1/2	Pin	2	51
EX-508-B-2	1/2	Ball	2	51
EX-508-3	1/2	Pin	3	76
EX-508-B-3	1/2	Ball	3	76
EX-508-4	1/2	Pin	4	102
EX-508-B-4	1/2	Ball	4	102
EX-508-5	1/2	Pin	5	127
EX-508-B-5	1/2	Ball	5	127
EX-508-6	1/2	Pin	6	152
EX-508-B-6	1/2	Ball	6	152
EX-508-8	1/2	Pin	8	203
EX-508-B-8	1/2	Ball	8	203
EX-508-9	1/2	Pin	9	229
EX-508-B-9	1/2	Ball	9	229
EX-508-10	1/2	Pin	10	254
EX-508-B-10	1/2	Ball	10	254
EX-508-12	1/2	Pin	12	305
EX-508-B-12	1/2	Ball	12	305
EX-508-15	1/2	Pin	15	381
EX-508-B-15	1/2	Ball	15	381
EX-508-16	1/2	Pin	16	406
EX-508-18	1/2	Pin	18	457

# 1/2" Square Drive Adapters

1/4" to 3/8" Male Square



Part Number	Male Square In.	Female Square In.	Type of Lock	Overall Length	
				In.	mm
EX-260	1/4	1/2	Pin	1 1/2	38
EX-260-B	1/4	1/2	Ball	1 1/2	38
EX-258-2	1/4	1/2	Pin	2	51
EX-258-B-2	1/4	1/2	Ball	2	51
EX-258-4	1/4	1/2	Pin	4	102
EX-258-6	1/4	1/2	Pin	6	152
EX-375	3/8	1/2	Pin	1 1/2	38
EX-375-B	3/8	1/2	Ball	1 1/2	38
EX-377-2	3/8	1/2	Pin	2	51
EX-377-B-2	3/8	1/2	Ball	2	51
EX-377-3	3/8	1/2	Pin	3	76
EX-377-B-3	3/8	1/2	Ball	3	76
EX-377-4	3/8	1/2	Pin	4	102
EX-377-B-4	3/8	1/2	Ball	4	102

(Continued on next page.)

Refer to Page iv for description of Rapid Select.

# 1/2" Square Drive Adapters

## 3/8" to 3/4" Male Square (continued)



Part Number	Male Square In.	Female Square In.	Type of Lock	Overall Length	
				In.	mm
EX-377-5	3/8	1/2	Pin	5	127
EX-377-B-5	3/8	1/2	Ball	5	127
EX-377-6	3/8	1/2	Pin	6	152
EX-377-B-6	3/8	1/2	Ball	6	152
EX-377-8	3/8	1/2	Pin	8	203
EX-377-B-9	3/8	1/2	Ball	9	229
EX-377-10	3/8	1/2	Pin	10	254
EX-377-B-10	3/8	1/2	Ball	10	254
EX-377-12	3/8	1/2	Pin	12	305
EX-377-B-12	3/8	1/2	Ball	12	305
EX-377-15	3/8	1/2	Pin	15	381
EX-623	5/8	1/2	Pin	1 1/2	38
EX-623-B	5/8	1/2	Ball	1 1/2	38
EX-626-3	5/8	1/2	Pin	3	76
EX-626-4	5/8	1/2	Pin	4	102
EX-626-6	5/8	1/2	Pin	6	152
EX-751	3/4	1/2	7/32 Drill Hole	1 13/16	46
EX-751-B	3/4	1/2	Ball	1 13/16	46

# 1/2" Square Drive Universal Adapters

## 3/8" to 3/4" Male Square



Part Number	Male Square In.	Female Square In.	Type of Lock	Overall Length		Largest Diameter	
				In.	mm	in.	mm
MF-39	3/8	1/2	Pin	2 9/16	65	7/8	22
MF-39B	3/8	1/2	Ball	2 9/16	65	7/8	22
MF-50	1/2	1/2	Pin	2 11/16	68	1	25
MF-50B	1/2	1/2	Ball	2 11/16	68	1	25
MF-55	1/2	1/2	Pin	3 1/16	78	1 1/4	32
MF-55B	1/2	1/2	Ball	3 1/16	78	1 1/4	32
MF-70	3/4	1/2	7/32 Drill Hole	3 5/8	92	1 1/2	38
MF-70B	3/4	1/2	Ball	3 5/8	92	1 1/2	38

Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

# 1/2" Square Drive Universal Adapters - Extension

## 1/2" Male Square



(Standard Type Shown)

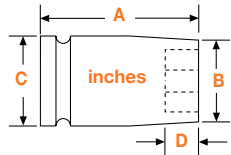
Standard	Part Number		Male Sq. In.	Female Sq. In.	Type of Lock	Largest Diameter	
	Tension					In.	mm
KHM-37-6	KNM-37-6		3/8	1/2	Pin	3/4	19
KHM-38-6	KNM-38-6		3/8	1/2	Pin	7/8	22
KHM-50-6	KNM-50-6		1/2	1/2	Pin	1	25
KHM-50-B-6	KNM-50-B-6		1/2	1/2	Ball	1	25

Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°. Standard lengths are 3", 6", 9" and 12" (76, 152, 229 and 305mm)

# 5/8" Square Drive Sockets, SAE

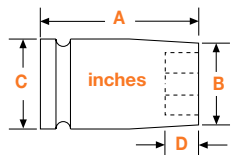


## 6 Point and Double Hex, Standard Length



Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
6116	6116-D	1/2	1 7/8	13/16	1 1/4	11/32
6118	6118-D	9/16	1 7/8	7/8	1 1/4	7/16
6120	6120-D	5/8	1 7/8	1	1 1/4	7/16
6122	6122-D	11/16	1 7/8	1 1/8	1 1/4	7/16
6124	6124-D	3/4	1 7/8	1 1/4	1 1/4	15/32
6126	-	13/16	1 7/8	1 1/4	1 1/4	17/32
6128	-	7/8	1 7/8	1 3/8	1 3/8	9/16
6130	6130-D	15/16	2	1 1/2	1 1/2	5/8
6132	-	1	2	1 5/8	1 5/8	5/8
6134	-	1 1/16	2	1 5/8	1 5/8	11/16
6136	-	1 1/8	2	1 5/8	1 5/8	3/4
6138	-	1 3/16	2	1 3/4	1 3/4	3/4
6140	-	1 1/4	2	1 7/8	1 7/8	13/16
6142	-	1 5/16	2	2	2	13/16
6144	-	1 3/8	2 1/8	2	2	13/16
6146	-	1 7/16	2 1/8	2 1/8	2 1/8	15/16
6148	-	1 1/2	2 1/4	2 1/8	2 1/8	1

## 6 Point and Double Hex, Thin Wall Standard Length



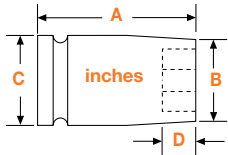
Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
6414	6414-D	7/16	1 7/8	11/16	1 1/4	9/32
6418	-	9/16	1 7/8	7/8	1 1/4	7/16
6420	6420-D	5/8	1 7/8	15/16	1 1/4	7/16
6424	6424-D	3/4	1 7/8	1 1/16	1 1/4	15/32
6426	-	13/16	1 7/8	1 1/8	1 1/4	17/32
6428	6428-D	7/8	1 7/8	1 3/16	1 1/4	9/16
6430	6430-D	15/16	2	1 5/16	1 5/16	5/8
6432	-	1	2	1 3/8	1 3/8	5/8
6434	-	1 1/16	2	1 1/2	1 1/2	11/16
6436	-	1 1/8	2	1 1/2	1 1/2	3/4
6440	-	1 1/4	2	1 3/4	1 3/4	13/16



# 5/8" Square Drive Sockets, SAE

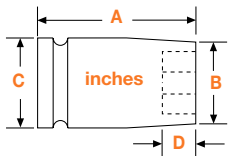


## 6 Point and Double Hex, Extra Long Length



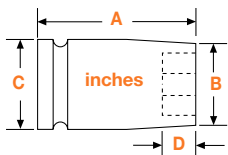
Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
6320	-	5/8	3 1/2	1	1 1/4	7/16
6322	6322-D	11/16	3 1/2	1 1/8	1 1/4	7/16
6324	6324-D	3/4	3 1/2	1 1/4	1 1/4	15/32
6326	-	13/16	3 1/2	1 1/4	1 1/4	17/32
6328	-	7/8	3 1/2	1 3/8	1 3/8	9/16
6330	-	15/16	3 1/2	1 1/2	1 1/2	5/8
6332	6332-D	1	3 1/2	1 5/8	1 5/8	5/8
6336	6336-D	1 1/8	3 1/2	1 5/8	1 5/8	3/4
6338	-	1 3/16	3 1/2	1 3/4	1 3/4	3/4
6340	6340-D	1 1/4	3 1/2	1 7/8	1 7/8	13/16
6342	-	1 5/16	3 1/2	2	2	13/16
6344	6344-D	1 3/8	3 1/2	2	2	13/16
6346	6346-D	1 7/16	3 1/2	2 1/8	2 1/8	15/16
6348	-	1 1/2	3 1/2	2 1/8	2 1/8	1

## 6 Point and Double Hex, Thin Wall, Extra Long Length



Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
-	6520-D	5/8	3 1/2	15/16	1 1/4	7/16
6522	6522-D	11/16	3 1/2	1	1 1/4	7/16
6524	6524-D	3/4	3 1/2	1 1/16	1 1/4	15/32
6526	-	13/16	3 1/2	1 1/8	1 1/4	17/32
-	6528-D	7/8	3 1/2	1 3/16	1 1/4	9/16
6530	-	15/16	3 1/2	1 5/16	1 5/16	5/8

## Surface Drive and Fast Lead, Standard Length



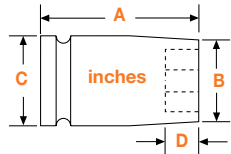
Part No. Surface Drive	Part Number Fast Lead	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-6118	-	9/16	1 7/8	7/8	1 1/4	7/16
SF-6418*	-	9/16	1 7/8	7/8	1 1/4	7/16
SF-6120	FL-6120	5/8	1 7/8	1	1 1/4	7/16
SF-6122	-	11/16	1 7/8	1 1/8	1 1/4	7/16
SF-6124	FL-6124	3/4	1 7/8	1 1/4	1 1/4	15/32
SF-6424*	-	3/4	1 7/8	1 1/16	1 1/4	15/32
SF-6126	-	13/16	1 7/8	1 1/4	1 1/4	17/32
SF-6128	FL-6128	7/8	1 7/8	1 3/8	1 3/8	9/16
SF-6130	-	15/16	2	1 1/2	1 1/2	5/8
-	FL-6132	1	2	1 5/8	1 5/8	5/8

\*Thin Wall

# 5/8" Square Drive Sockets, SAE



## Surface Drive and Fast Lead, Extra Long Length

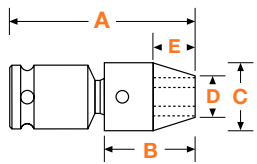


Part No. Surface Drive	Part Number Fast Lead	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-6320	FL-6320	5/8	3 1/2	1	1 1/4	7/16
SF-6520*	-	5/8	3 1/2	15/16	1 1/4	7/16
SF-6522*	-	11/16	3 1/2	1	1 1/4	7/16
SF-6324	FL-6324	3/4	3 1/2	1 1/4	1 1/4	15/32
SF-6524*	-	3/4	3 1/2	1 1/16	1 1/4	15/32
SF-6326	FL-6326	13/16	3 1/2	1 1/4	1 1/4	17/32
SF-6526*	-	13/16	3 1/2	1 1/8	1 1/4	17/32
SF-6328	FL-6328	7/8	3 1/2	1 3/8	1 3/8	9/16
SF-6330	FL-6330	15/16	3 1/2	1 1/2	1 1/2	5/8

\*Thin Wall

# 5/8" Square Drive Universal Wrenches, SAE

## 6 Point



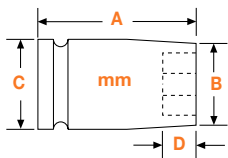
Part Number 6 Point	Hex Opening In.	Overall Length (A) In.	Socket Length (B) In.	Socket Diameter (C) In.	Nose End Diameter (D) In.	Clearance Depth (E) In.
SA-430	9/16	2 59/64	1 1/4	1 1/4	2 5/32	33/64
SA-432	5/8	2 59/64	1 1/4	1 1/4	7/8	33/64
SA-434	3/4	3 3/64	1 3/8	1 1/4	1 1/32	41/64
SA-436	13/16	3 3/64	1 3/8	1 1/4	1 1/8	41/64
SA-563	7/8	3 1/8	1 3/4	1 1/2	1 5/16	29/32
SA-439	15/16	3 3/64	1 3/8	1 5/16	1 5/16	41/64
SA-565	15/16	3 1/8	1 3/4	1 1/2	1 3/8	29/32
SA-568	1 1/8	3 1/4	1 7/8	1 5/8	1 5/8	1 1/32

Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

# 5/8" Square Drive Sockets, Metric



## 6 Point and Surface Drive, Standard Length



Part Number 6 Point	Part No. Surface Drive	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
15mm16	SF-15mm16	15	48	23.8	31.8	11.1
16mm16	SF-16mm16	16	48	25.4	31.8	11.1
17mm16	SF-17mm16	17	48	28.6	31.8	11.1
18mm16	SF-18mm16	18	48	28.5	31.8	11.1
19mm16	SF-19mm16	19	48	31.8	31.8	11.9
20mm16	-	20	48	31.8	31.8	11.9
21mm16	SF-21mm16	21	48	31.8	31.8	13.5
22mm16	SF-22mm16	22	48	34.9	34.9	14.3
23mm16	-	23	48	34.9	34.9	15.9
24mm16	SF-24mm16	24	51	38.1	38.1	15.9

## 6 Point and Surface Drive, Extra Long Length



Part Number 6 Point	Part No. Surface Drive	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
15mm36	SF-15mm36	15	89	23.8	31.8	11.1
17mm36	-	17	89	25.4	31.8	11.1
18mm36	SF-18mm36	18	89	28.6	31.8	11.1
19mm36	SF-19mm36	19	89	31.8	31.8	11.9
21mm36	SF-21mm36	21	89	31.8	31.8	13.5
22mm36	SF-22mm36	22	89	34.9	34.9	14.3
23mm36	-	23	89	34.9	34.9	15.9
24mm36	SF-24mm36	24	89	38.1	38.1	15.9

# 5/8" Square Drive Extensions

## 1 7/8" to 15" (48mm to 381mm) Length



Part Number	Male Square In.	Type of Lock	Overall Length	
			In.	mm
EX-624	5/8	Pin	1 7/8	48
EX-624-B	5/8	Ball	1 7/8	48
EX-627-3	5/8	Pin	3	76
EX-627-4	5/8	Pin	4	102
EX-627-6	5/8	Pin	6	152
EX-627-8	5/8	Pin	8	203
EX-627-10	5/8	Pin	10	254
EX-627-12	5/8	Pin	12	305
EX-627-15	5/8	Pin	15	381

# 5/8" Square Drive Adapters



## 1/2" to 3/4" Male Square



Part Number	Male Square In.	Female Square In.	Type of Lock	Overall Length	
				In.	mm
EX-505	1/2	5/8	Pin	1 7/8	48
EX-505-B	1/2	5/8	Ball	1 7/8	48
EX-509-3	1/2	5/8	Pin	3	76
EX-509-4	1/2	5/8	Pin	4	102
EX-509-5	1/2	5/8	Pin	5	127
EX-509-6	1/2	5/8	Pin	6	152
EX-509-10	1/2	5/8	Pin	10	254
EX-509-12	1/2	5/8	Pin	12	305
EX-752	3/4	5/8	7/32 Drill Hole	1 7/8	48
EX-752-B	3/4	5/8	Ball	1 7/8	48

# 5/8" Square Drive Universal Adapters

## 1/2" to 5/8" Male Square



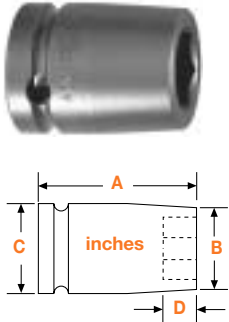
Part Number	Male Square In.	Female Square In.	Type of Lock	Overall Length		Largest Diameter	
				In.	mm	in.	mm
MF-51	1/2	5/8	Pin	3 5/16	84	1 1/4	32
MF-62	5/8	5/8	Pin	3 1/4	83	1 1/4	32
MF-62B	5/8	5/8	Ball	3 1/4	83	1 1/4	32

*Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.*

# 3/4" Square Drive Sockets, SAE



## 6 Point and Double Hex, Standard Length

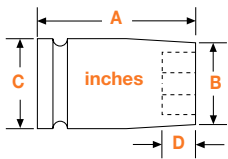


Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
7116	-	1/2	2	13/16	1 1/2	11/32
7118	-	9/16	2	7/8	1 1/2	7/16
7120	7120-D	5/8	2	1 1/16	1 1/2	7/16
7122	7122-D	11/16	2	1 1/8	1 1/2	7/16
7124	7124-D	3/4	2	1 1/4	1 1/2	15/32
7126	7126-D	13/16	2	1 3/8	1 1/2	17/32
7128	7128-D	7/8	2	1 1/2	1 1/2	9/16
7130	7130-D	15/16	2	1 1/2	1 1/2	5/8
7132	7132-D	1	2	1 5/8	1 5/8	5/8
7134	7134-D	1 1/16	2	1 3/4	1 3/4	11/16
7136	7136-D	1 1/8	2 1/8	1 3/4	1 3/4	3/4
7138	7138-D	1 3/16	2 1/8	1 7/8	1 3/4	3/4
7140	7140-D	1 1/4	2 1/8	2	1 3/4	13/16
7142	7142-D	1 5/16	2 1/8	2	1 3/4	13/16
7144	7144-D	1 3/8	2 1/8	2 1/8	2 1/8	13/16
7146	-	1 7/16	2 1/4	2 1/4	2 1/8	15/16
7148	7148-D	1 1/2	2 1/4	2 1/4	2 1/8	1
7150	7150-D	1 9/16	2 1/4	2 3/8	2 1/8	1
7152	7152-D	1 5/8	2 1/4	2 1/2	2 1/8	1 1/8
7154	7154-D	1 11/16	2 1/4	2 1/2	2 1/8	1 1/8
7156	7156-D	1 3/4	2 1/4	2 5/8	2 1/8	1 1/8
7158	7158-D	1 13/16	2 1/4	2 3/4	2 1/8	1 1/4
7160	7160-D	1 7/8	2 1/4	2 3/4	2 1/8	1 1/4
7162	-	1 15/16	2 1/4	2 7/8	2 1/8	1 1/4
7164	7164-D	2	2 3/8	2 7/8	2 1/8	1 3/8
7166	7166-D	2 1/16	2 3/8	3	2 1/8	1 3/8
7168	7168-D	2 1/8	2 3/8	3 1/8	2 1/8	1 3/8
7170	-	2 3/16	2 1/2	3 1/8	2 1/8	1 1/2
7172	7172-D	2 1/4	2 1/2	3 1/4	2 1/8	1 1/2
7174	-	2 5/16	2 1/2	3 3/8	2 1/8	1 1/2
7176	7176-D	2 3/8	2 5/8	3 1/2	2 1/8	1 5/8
7178	-	2 7/16	2 5/8	3 1/2	2 1/8	1 5/8
7180	7180-D	2 1/2	2 5/8	3 1/2	2 1/8	1 5/8

# 3/4" Square Drive Sockets, SAE



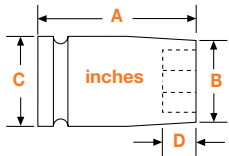
## 6 Point and Double Hex, Thin Wall, Standard Length



Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
7424	7424-D	3/4	2	1 1/8	1 3/8	15/32
7426	-	13/16	2	1 1/4	1 3/8	17/32
7428	7428-D	7/8	2	1 5/16	1 3/8	9/16
7430	7430-D	15/16	2	1 3/8	1 3/8	5/8
7432	7432-D	1	2	1 7/16	1 7/16	5/8
7434	7434-D	1 1/16	2	1 1/2	1 1/2	11/16
7436	7436-D	1 1/8	2 1/8	1 5/8	1 5/8	3/4
7438	7438-D	1 3/16	2 1/8	1 5/8	1 5/8	3/4
7440	7440-D	1 1/4	2 1/8	1 3/4	1 3/4	13/16
7442	7442-D	1 5/16	2 1/8	1 7/8	1 3/4	13/16
7444	-	1 3/8	2 1/8	2	1 3/4	13/16
7446	-	1 7/16	2 1/4	2	1 3/4	15/16
7448	7448-D	1 1/2	2 1/4	2 1/8	2 1/8	1
7452	-	1 5/8	2 1/4	2 1/4	2 1/8	1 1/8
7454	-	1 11/16	2 1/4	2 3/8	2 1/8	1 1/8
7456	-	1 3/4	2 1/4	2 7/16	2 1/8	1 1/8
7460	-	1 7/8	2 1/4	2 5/8	2 1/8	1 1/4
7464	-	2	2 3/8	2 3/4	2 1/8	1 3/8
7470	-	2 3/16	2 3/8	3	2 5/8	1 3/8
7472	-	2 1/4	2 3/8	3	2 5/8	1 3/8

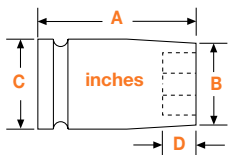
# 3/4" Square Drive Sockets, SAE

## 6 Point and Double Hex, Extra Long Length



Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
7320	-	5/8	4	1 1/16	1 1/2	7/16
7322	7322-D	11/16	4	1 1/8	1 1/2	7/16
7324SKT	7324-D	3/4	4	1 1/4	1 1/2	15/32
7326	-	13/16	4	1 3/8	1 1/2	17/32
7328	7328-D	7/8	4	1 7/16	1 1/2	9/16
7330	7330-D	15/16	4	1 1/2	1 1/2	5/8
7332	-	1	4	1 1/2	1 1/2	5/8
7334	7334-D	1 1/16	4	1 5/8	1 5/8	11/16
7336	7336-D	1 1/8	4	1 3/4	1 3/4	3/4
7338	7338-D	1 3/16	4	1 3/4	1 3/4	3/4
7340	-	1 1/4	4	1 7/8	1 3/4	13/16
7342	-	1 5/16	4	2	1 3/4	13/16
7344	-	1 3/8	4	2 1/8	2 1/8	13/16
7346	-	1 7/16	4	2 1/8	2 1/8	15/16
7348	-	1 1/2	4	2 1/4	2 1/8	1
7350	-	1 9/16	4	2 3/8	2 1/8	1
7352	-	1 5/8	4	2 1/2	2 1/8	1 1/8
7354	-	1 11/16	4	2 1/2	2 1/8	1 1/8
7356	-	1 3/4	4	2 5/8	2 1/8	1 1/8
7358	-	1 13/16	4	2 3/4	2 1/8	1 1/4
7360	-	1 7/8	4	2 3/4	2 1/8	1 1/4
7362	-	1 15/16	4	2 3/4	2 1/8	1 1/4
7364	-	2	4 1/8	2 7/8	2 1/8	1 3/8
7372	-	2 1/4	4 1/4	3 1/4	2 1/8	1 1/2
7376	-	2 3/8	4 1/4	3 3/8	2 1/8	1 5/8

## 6 Point and Double Hex, Thin Wall, Extra Long Length

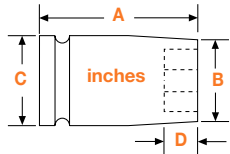


Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
7524	-	3/4	4	1 1/8	1 3/8	15/32
7526	-	13/16	4	1 1/4	1 3/8	17/32
7528	-	7/8	4	1 3/8	1 3/8	9/16
7530	7530-D	15/16	4	1 3/8	1 3/8	5/8
7532	7532-D	1	4	1 7/16	1 7/16	5/8
7534	7534-D	1 1/16	4	1 1/2	1 1/2	11/16
7536	7536-D	1 1/8	4	1 5/8	1 5/8	3/4
7538	-	1 3/16	4	1 11/16	1 11/16	3/4
7540	-	1 1/4	4	1 3/4	1 3/4	13/16
7542	-	1 5/16	4	1 7/8	1 3/4	13/16
7544	-	1 3/8	4	2	1 3/4	13/16
7546	-	1 7/16	4	2	1 3/4	15/16
7548	-	1 1/2	4	2 1/8	2 1/8	1
7552	-	1 5/8	4	2 1/4	2 1/8	1 1/8
7556	-	1 3/4	4	2 1/2	2 1/8	1 1/8
7564	-	2	4 1/8	2 3/4	2 1/8	1 3/8

# 3/4" Square Drive Sockets For SAE Square Nuts

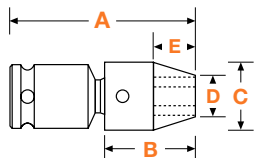


## Single Square and Double Square, Standard Length



Part No. Single Square	Part No. Double Square	Square Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
7620	-	5/8	2	1 1/4	1 1/2	7/16
7622	-	11/16	2	1 3/8	1 1/2	7/16
7624	7624-D	3/4	2	1 1/2	1 1/2	15/32
7626	-	13/16	2	1 5/8	1 5/8	17/32
7628	-	7/8	2	1 3/4	1 3/4	5/8
7630	7630-D	15/16	2 1/8	1 7/8	1 3/4	5/8
7632	7632-D	1	2 1/8	2	1 3/4	5/8
-	7634-D	1 1/16	2 1/8	2	1 3/4	11/16
7636	7636-D	1 1/8	2 1/8	2 1/8	2 1/8	3/4
-	7638-D	1 3/16	2 1/8	2 1/4	2 1/8	5/8
-	7640-D	1 1/4	2 1/8	2 1/4	2 1/8	5/8
-	7642-D	1 5/16	2 1/8	2 1/2	2 1/8	5/8

## 3/4" Square Drive Universal Wrenches, SAE 6 Point



Part Number 6 Point	Hex Opening In.	Overall Length (A) In.	Socket Length (B) In.	Socket Diameter (C) In.	Nose End Diameter (D) In.	Clearance Depth (E) In.
SA-535	15/16	3 25/32	1 3/4	1 1/2	1 3/8	29/32
SA-601	15/16	4 1/32	1 15/16	1 3/4	1 1/2	29/32
SA-537	1 1/16	3 29/32	1 7/8	1 5/8	1 5/8	1 1/32
SA-603	1 1/16	4 3/32	2	1 3/4	1 5/8	31/32
SA-743	1 1/16	3 31/32	2	2	1 11/16	1 3/16
SA-538	1 1/8	3 29/32	1 7/8	1 5/8	1 5/8	1 1/32
SA-604	1 1/8	4 5/32	2 1/16	1 3/4	1 3/4	1 1/32
SA-606	1 1/4	4 7/32	2 1/8	1 7/8	1 7/8	1 3/32
SA-607	1 5/16	4 7/32	2 1/8	1 7/8	1 7/8	1 3/32
SA-609	1 7/16	4 11/32	2 1/4	2 1/8	2 1/8	1 5/32
SA-610	1 1/2	4 11/32	2 1/4	2 1/4	2 1/4	1 5/32
SA-712	1 5/8	4 11/32	2 3/8	2 3/8	2 3/8	1 3/16
SA-716	1 7/8	4 11/32	2 3/8	2 5/8	2 5/8	1 3/16

Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

## 3/4" Square Drive Budd Wheel Sockets

### 13/16" Square and Combo. 13/16" Square – 1 1/2" Hex

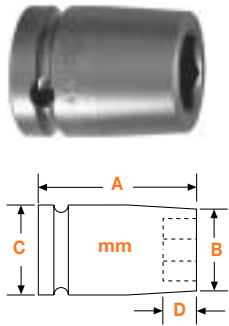


Part Number	Drive	Overall Length In.	Overall Length mm	
BW-7626	3/4" Square	2	51	13/16" Square
BW-748	3/4" Square	3 3/8	86	Combo. 13/16 Square – 1 1/2" Hex



# 3/4" Square Drive Sockets, Metric

## 6 Point, Standard Length

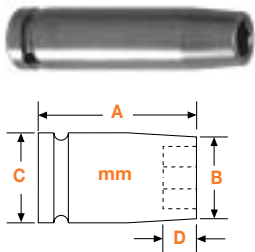


Part Number 6 Point	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
17mm17	17	51	31.8	38.1	11.2
18mm17	18	51	31.8	38.1	11.2
19mm17	19	51	31.8	38.1	11.9
20mm17	20	51	33.3	38.1	11.9
21mm17	21	51	34.9	38.1	13.5
22mm17	22	51	38.1	38.1	14.3
22mm47*	22	51	33.3	34.9	14.3
23mm17	23	51	38.1	38.1	15.9
24mm17	24	51	38.1	38.1	15.9
24mm47*	24	51	34.9	34.9	15.9
25mm17	25	51	41.3	41.3	15.9
26mm17	26	51	41.3	41.3	15.9
27mm17	27	51	44.4	44.4	17.5
27mm47*	27	51	38.1	38.1	17.5
28mm17	28	54	44.4	44.4	19.1
29mm17	29	54	47.6	44.4	19.1
30mm17	30	54	47.6	44.4	19.1
30mm47*	30	54	41.3	41.3	19.1
32mm17	32	54	50.8	44.4	20.6
32mm47*	32	54	44.4	44.4	20.6
33mm17	33	54	50.8	44.4	20.6
34mm17	34	54	54.0	54.0	20.6
35mm17	35	54	54.0	54.0	20.6
36mm17	36	57	57.1	54.0	23.8
37mm17	37	57	57.1	54.0	23.8
38mm17	38	57	57.1	54.0	25.4
41mm17	41	57	63.5	54.0	31.8
46mm17	46	57	69.9	54.0	31.8

\*Thin Wall

# 3/4" Square Drive Sockets, Metric

## 6 Point , Extra Long Length



Part Number 6 Point	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
21mm37	21	102	34.9	38.1	13.5
21mm57*	21	102	34.9	34.9	13.5
22mm37	22	102	36.5	38.1	14.3
22mm57*	22	102	34.9	34.9	14.3
23mm37	23	102	38.1	38.1	15.9
24mm37	24	102	38.1	38.1	15.9
24mm57*	24	102	34.9	34.9	15.9
25mm37	25	102	38.1	38.1	15.9
26mm37	26	102	41.3	41.3	15.9
27mm37	27	102	41.3	41.3	17.5


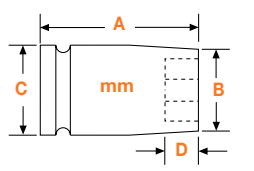
\*Thin Wall

Refer to Page iv for description of Rapid Select.

# 3/4" Square Drive Sockets, Metric




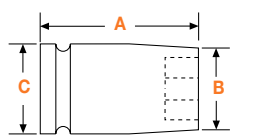
## 6 Point , Extra Long Length (continued)

Part Number 6 Point	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
27mm57*	27	101.6	38.1	38.1	17.5
28mm37	28	101.6	44.4	44.4	19.1
29mm37	29	101.6	44.4	44.4	19.1
30mm37	30	101.6	44.4	44.4	19.1
30mm57*	30	101.6	42.9	42.9	19.1
32mm37	32	101.6	47.6	44.4	20.6
33mm37	33	101.6	50.8	44.4	20.6
34mm37	34	101.6	54.0	54.0	20.6
35mm37	35	101.6	54.0	54.0	20.6
36mm37	36	101.6	54.0	54.0	23.8
41mm37	41	101.6	63.5	54.0	28.6

\*Thin Wall


## 3/4" Square Drive Sockets for Spline Fasteners Standard Length

Part Number	Spline Size	Nominal Size	Overall Length (A)		Diameter Nose End (B)		Diameter Drive End (C)	
			In.	mm	In.	mm	In.	mm
CMS-7430	30	15/16	1 7/8	48	1 3/8	35	1 3/8	35
CMS-7432	32	1	1 15/16	49	1 7/16	37	1 7/16	37

Apex spline sockets conform to military specifications MS-37787 and MIL-W-8982C.

## 3/4" Square Drive Extensions 2 1/4" to 15" (57mm to 381mm) Length



Part Number	Male Square In.	Type of Lock	Overall Length	
			In.	mm
EX-753	3/4	7/32 Drill Hole	2 1/4	57
EX-753-B	3/4	Ball	2 1/4	57
EX-755-4	3/4	7/32 Drill Hole	4	102
EX-755-B-4	3/4	Ball	4	102
EX-755-6	3/4	7/32 Drill Hole	6	152
EX-755-B-6	3/4	Ball	6	152
EX-755-8	3/4	7/32 Drill Hole	8	203
EX-755-B-8	3/4	Ball	8	203
EX-755-10	3/4	7/32 Drill Hole	10	254
EX-755-B-10	3/4	Ball	10	254
EX-755-12	3/4	7/32 Drill Hole	12	305
EX-755-B-12	3/4	Ball	12	305
EX-755-15	3/4	7/32 Drill Hole	15	381
EX-755-B-15	3/4	Ball	15	381

# 3/4" Square Drive Adapters

## 1/2" to 1" Male Square



Part Number	Male Square In.	Female Square In.	Type of Lock	Overall Length	
				In.	mm
EX-506	1/2	3/4	Pin	2	51
EX-506-B	1/2	3/4	Ball	2	51
EX-510-3	1/2	3/4	Pin	3	76
EX-510-B-3	1/2	3/4	Ball	3	76
EX-510-4	1/2	3/4	Pin	4	102
EX-510-B-4	1/2	3/4	Ball	4	102
EX-510-B-5	1/2	3/4	Ball	5	127
EX-510-6	1/2	3/4	Pin	6	152
EX-510-B-6	1/2	3/4	Ball	6	152
EX-510-8	1/2	3/4	Pin	8	203
EX-510-B-8	1/2	3/4	Ball	8	203
EX-625	5/8	3/4	Pin	2	51
EX-625-B	5/8	3/4	Ball	2	51
EX-628-3	5/8	3/4	Pin	3	76
EX-1000	1	3/4	9/32 Drill Hole	2 9/16	65
EX-1000-B	1	3/4	Ball	2 9/16	65

# 3/4" Square Drive Universal Adapters

## 3/4" Male Square

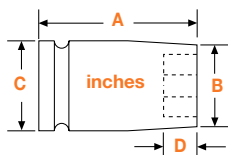


Part Number	Male Sq. In.	Female Sq. In.	Type of Lock	Overall Length		Largest Diameter	
				In.	mm	In.	mm
MF-75	3/4	3/4	7/32 Drill Hole	4	102	1 1/2	38
MF-75B	3/4	3/4	Ball	4	102	1 1/2	38
MF-76	3/4	3/4	7/32 Drill Hole	4 3/8	111	1 3/4	45
MF-76B	3/4	3/4	Ball	4 3/8	111	1 3/4	45
MF-79	3/4	3/4	7/32 Drill Hole	4 1/2	114	2	51

# 1" Square Drive Sockets, SAE



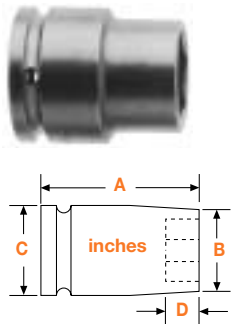
## 6 Point and Double Hex , Standard Length



Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
8124	8124-D	3/4	2 1/8	1 5/16	2	13/16
8126	-	13/16	2 1/8	1 3/8	2	13/16
8128	8128-D	7/8	2 1/8	1 1/2	2	13/16
8130	8130-D	15/16	2 1/8	1 1/2	2	13/16
8132	8132-D	1	2 1/8	1 5/8	2	13/16
8134	8134-D	1 1/16	2 1/8	1 11/16	2	13/16
8136	8136-D	1 1/8	2 1/8	1 3/4	2	13/16
8138	8138-D	1 3/16	2 1/8	2 1/8	2	13/16
8140	8140-D	1 1/4	2 1/8	2 1/8	2 1/8	13/16
8142	8142-D	1 5/16	2 1/8	2 1/8	2 1/8	13/16
8144	8144-D	1 3/8	2 1/8	2 1/8	2 1/8	13/16
8146	8146-D	1 7/16	2 1/4	2 1/4	2 1/8	15/16
8148	8148-D	1 1/2	2 1/4	2 1/4	2 1/8	15/16
-	8150-D	1 9/16	2 1/4	2 3/8	2 1/8	15/16
8152	-	1 5/8	2 3/8	2 1/2	2 1/8	15/16
8154	-	1 11/16	2 3/8	2 1/2	2 1/8	15/16
8158	-	1 13/16	2 1/2	2 3/4	2 5/8	1 1/16
8160	-	1 7/8	2 1/2	2 3/4	2 5/8	1 1/16
8162	8162-D	1 15/16	2 1/2	2 7/8	2 5/8	1 1/16
8164	-	2	2 5/8	3	2 5/8	1 3/16
8166	-	2 1/16	2 5/8	3	2 5/8	1 3/16
8168	-	2 1/8	2 5/8	3 1/8	2 5/8	1 3/16
8170	-	2 3/16	2 3/4	3 1/4	3 1/4	1 5/16
8172	-	2 1/4	2 3/4	3 1/4	3 1/4	1 5/16
8174	-	2 5/16	2 3/4	3 3/8	3 1/4	1 3/8
8176	-	2 3/8	2 7/8	3 1/2	3 1/4	1 3/8
8178	-	2 7/16	2 7/8	3 1/2	3 1/4	1 3/8
8180	-	2 1/2	2 7/8	3 3/4	3 1/4	1 3/8
8182	-	2 9/16	3	3 3/4	3 1/4	1 1/2
8184	-	2 5/8	3	3 3/4	3 1/4	1 1/2
8186	-	2 11/16	3	4	3 1/4	1 1/2
8188	-	2 3/4	3 1/8	4	3 1/4	1 5/8
8190	-	2 13/16	3 1/8	4	3 1/4	1 5/8

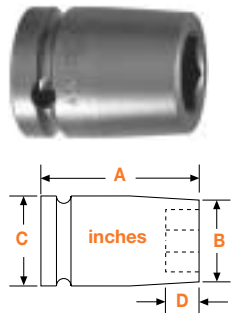
# 1" Square Drive Sockets, SAE

## 6 Point and Double Hex, Thin Wall Standard Length



Part Number 6 Point	Part Number Double Hex	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
8430	8430-D	15/16	2 1/8	1 7/16	1 7/8	13/16
8432	8432-D	1	2 1/8	1 1/2	1 7/8	13/16
8434	8434-D	1 1/16	2 1/8	1 9/16	1 7/8	13/16
8436	8436-D	1 1/8	2 1/8	1 5/8	1 7/8	13/16
8438	-	1 3/16	2 1/8	1 3/4	2	13/16
8440	8440-D	1 1/4	2 1/8	1 13/16	2	13/16
8442	8442-D	1 5/16	2 1/8	1 7/8	2	13/16
-	8444-D	1 3/8	2 1/8	1 15/16	2	13/16
8446	8446-D	1 7/16	2 1/4	2	2	15/16
8448	-	1 1/2	2 1/4	2 1/8	2 1/8	15/16
8452	-	1 5/8	2 3/8	2 5/16	2 1/8	15/16
8454	-	1 11/16	2 3/8	2 3/8	2 1/8	15/16
8456	-	1 3/4	2 3/8	2 7/16	2 1/8	1 1/16
8458	-	1 13/16	2 1/2	2 9/16	2 1/8	1 1/16
8460	-	1 7/8	2 1/2	2 5/8	2 5/8	1 1/16
8464	-	2	2 5/8	2 3/4	2 5/8	1 3/16
-	-	2 1/8	2 5/8	2 15/16	2 5/8	1 3/16
8472	-	2 1/4	2 3/4	3 1/8	2 5/8	1 5/16
8480	-	2 1/2	2 7/8	3 3/8	3 1/4	1 7/16

## 6 Point, Long Length

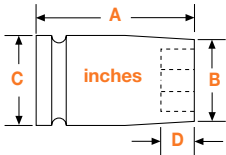


Part Number 6 Point	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
8228	7/8	3	1 7/16	2 1/8	9/16
8230	15/16	3	1 1/2	2 1/8	5/8
8236	1 1/8	3	1 3/4	2 1/8	3/4
8240	1 1/4	3	2 1/8	2 1/8	13/16
8242	1 5/16	3	2 1/8	2 1/8	13/16
8244	1 3/8	3	2 1/8	2 1/8	13/16
8246	1 7/16	3	2 1/4	2 1/8	15/16
8248	1 1/2	3 1/4	2 1/4	2 1/8	15/16

# 1" Square Drive Sockets, SAE

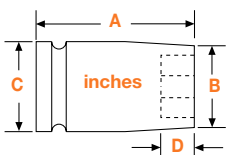


## 6 Point, Extra Long Length



Part Number 6 Point	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
8324	3/4	4 1/4	1 1/4	2 1/8	15/32
8326	13/16	4 1/4	1 3/8	2 1/8	17/32
8328	7/8	4 1/4	1 7/16	2 1/8	9/16
8330	15/16	4 1/4	1 1/2	2 1/8	5/8
8332	1	4 1/4	1 9/16	2 1/8	5/8
8334	1 1/16	4 1/4	1 5/8	2 1/8	11/16
8336	1 1/8	4 1/4	1 3/4	2 1/8	3/4
8338	1 3/16	4 1/4	1 7/8	2 1/8	3/4
8340	1 1/4	4 1/4	2 1/8	2 1/8	13/16
8342	1 5/16	4 1/4	2 1/8	2 1/8	13/16
8346	1 7/16	4 1/4	2 1/4	2 1/8	15/16
8348	1 1/2	4 1/4	2 1/4	2 1/8	1
8350	1 9/16	4 1/4	2 3/8	2 1/8	1
8352	1 5/8	4 1/4	2 1/2	2 1/8	1 1/8
8354	1 11/16	4 1/4	2 1/2	2 1/8	1 1/8
8356	1 3/4	4 1/4	2 5/8	2 5/8	1 1/8
8358	1 13/16	4 1/4	2 3/4	2 5/8	1 1/4
8360	1 7/8	4 1/4	2 3/4	2 5/8	1 1/4
8362	1 15/16	4 1/4	2 7/8	2 5/8	1 1/4
8364	2	4 3/8	2 7/8	2 5/8	1 3/8
8366	2 1/16	4 3/8	3	2 5/8	1 3/8
8368	2 1/8	4 3/8	3 1/8	2 5/8	1 3/8
8370	2 3/16	4 1/2	3 1/8	2 5/8	1 1/2
8372	2 1/4	4 1/2	3 1/4	3 1/4	1 1/2
8376	2 3/8	4 1/2	3 1/2	3 1/4	1 5/8
8378	2 7/16	4 1/2	3 1/2	3 1/4	1 5/8
8380	2 1/2	4 1/2	3 1/2	3 1/4	1 5/8
8382	2 9/16	4 1/2	3 3/4	3 1/4	1 3/4
8384	2 5/8	4 1/2	3 3/4	3 1/4	1 3/4
8388	2 3/4	4 5/8	4	3 1/4	1 7/8

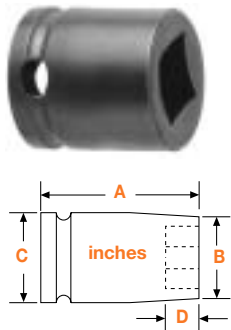
## 6 Point, Thin Wall, Extra Long Length



Part Number 6 Point	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
8528	7/8	4 1/4	1 7/16	2 1/8	9/16
8530	15/16	4 1/4	1 1/2	2 1/8	5/8
8534	1 1/16	4 1/4	1 9/16	2 1/8	3/4
8536	1 1/8	4 1/4	1 5/8	2 1/8	3/4
8540	1 1/4	4 1/4	1 13/16	2 1/8	13/16
8542	1 5/16	4 1/4	1 7/8	2 1/8	13/16
8548	1 1/2	4 1/4	2 1/8	2 1/8	1

# 1" Square Drive Sockets, SAE

## Single Square and Double Square, Standard Length



Part No. Single Square	Part No. Double Square	Square Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
8620	-	5/8	2 1/8	1 3/8	2	13/16
8624	-	3/4	2 1/8	1 5/8	2	13/16
8626	-	13/16	2 1/8	1 3/4	2	13/16
8628	-	7/8	2 1/8	2	2	13/16
8630	8630-D	15/16	2 1/8	2 1/8	2 1/8	13/16
8632	-	1	2 1/8	2 1/8	2 1/8	13/16
8634	-	1 1/16	2 1/8	2 1/8	2 1/8	13/16
8636	-	1 1/8	2 1/4	2 1/4	2 1/8	15/16
8638	8638-D	1 3/16	2 1/4	2 1/4	2 1/8	15/16
8640	8640-D	1 1/4	2 1/4	2 3/8	2 1/8	15/16
8642	-	1 5/16	2 1/4	2 1/2	2 1/8	15/16
8644	8644-D	1 3/8	2 5/16	2 5/8	2 5/8	1
8646	8646-D	1 7/16	2 3/8	2 5/8	2 5/8	1
8648	8648-D	1 1/2	2 3/8	2 3/4	2 5/8	1 1/16
8652	8652-D	1 5/8	2 1/2	2 7/8	2 5/8	1 1/16
8656	-	1 3/4	2 1/2	3 1/2	3 1/4	1 1/8

## Budd Wheel Sockets

### 13/16" Square and Combo. 13/16" Square 1 1/2" Hex

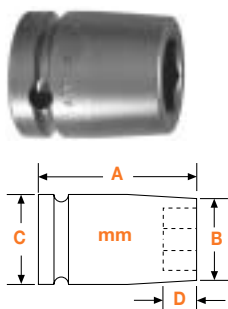


Part Number	Drive	Overall Length		
		In.	mm	
BW-8626	1" Square	2 1/8	54	13/16" Square
BW-848	1" Square	3 3/4	95	Combo. 13/16 Square—1 1/2" Hex
BW-848-F	1" Square	3 3/4	95	Combo. 13/16 Square—1 1/2" Hex for mag. wheels

# 1" Square Drive Sockets, Metric



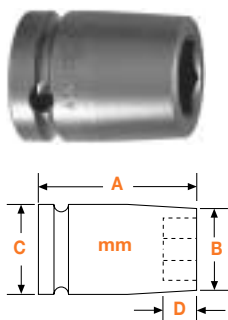
## 6 Point, Standard Length



Part Number 6 Point	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
21mm18	21	54	34.9	50.8	13.5
22mm18	22	54	38.1	50.8	14.2
23mm18	23	54	38.1	50.8	20.6
24mm18	24	54	38.1	50.8	20.6
25mm18	25	54	41.3	50.8	20.6
26mm18	26	54	41.3	50.8	20.6
27mm18	27	54	42.9	50.8	20.6
28mm18	28	54	44.4	50.8	20.6
29mm18	29	54	47.6	50.8	20.6
30mm18	30	54	50.8	50.8	20.6
30mm48*	30	54	44.4	54.0	20.6
32mm18	32	54	54.0	54.0	20.6
33mm18	33	54	54.0	54.0	20.6
34mm18	34	54	54.0	54.0	20.6
35mm18	35	54	54.0	54.0	20.6
36mm18	36	57	57.1	54.0	23.9
37mm18	37	57	57.1	54.0	23.9
38mm18	38	57	57.1	54.0	23.9
41mm18	41	60	63.5	54.0	23.9
42mm18	42	60	63.5	54.0	23.9
46mm18	46	64	69.8	66.7	26.9
47mm18	47	64	69.8	66.7	26.9
48mm18	48	64	69.8	66.7	26.9
50mm18	50	66	76.2	66.7	30.2

\*Thin Wall

## 6 Point, Long Length



Part Number 6 Point	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
21mm38	21	108	34.9	54.0	13.5
23mm38	23	108	36.5	54.0	15.9
24mm38	24	108	38.1	54.0	15.9
27mm38	27	108	41.3	54.0	17.5
28mm38	28	108	44.4	54.0	19.1
29mm38	29	108	47.6	54.0	19.1
32mm38	32	108	54.0	54.0	20.6
33mm38	33	108	54.0	54.0	20.6
35mm38	35	108	54.0	54.0	20.6
36mm38	36	108	54.0	54.0	23.8
37mm38	37	108	57.1	54.0	23.8
38mm38	38	108	57.1	54.0	25.4
41mm38	41	108	63.5	54.0	28.6
46mm38	46	108	69.8	66.7	31.8
47mm38	47	108	69.8	66.7	31.8
50mm38	50	111	73.0	66.7	34.9



# 1" Square Drive Extensions

## 2 13/16" to 15" (71mm to 381mm) Length



Part Number	Male Square In.	Type of Lock	Overall Length	
			In.	mm
EX-1001	1	9/32 Drill Hole	2 13/16	71
EX-1001-B	1	Ball	2 13/16	71
EX-1003-4	1	9/32 Drill Hole	4	102
EX-1003-B-4	1	Ball	4	102
EX-1003-6	1	9/32 Drill Hole	6	152
EX-1003-B-6	1	Ball	6	152
EX-1003-8	1	9/32 Drill Hole	8	203
EX-1003-B-8	1	Ball	8	203
EX-1003-10	1	9/32 Drill Hole	10	254
EX-1003-B-10	1	Ball	10	254
EX-1003-12	1	9/32 Drill Hole	12	305
EX-1003-B-12	1	Ball	12	305
EX-1003-15	1	9/32 Drill Hole	15	381
EX-1003-B-15	1	Ball	15	381

# 1" Square Drive Adapters

## 3/4" to 1 1/2" Male Square



Part Number	Male Square In.	Female Square In.	Type of Lock	Overall Length	
				In.	mm
EX-754	3/4	1	7/32 Drill Hole	2 13/16	71
EX-754-B	3/4	1	Ball	2 13/16	71
EX-756-4	3/4	1	7/32 Drill Hole	4	102
EX-756-B-4	3/4	1	Ball	4	102
EX-756-6	3/4	1	7/32 Drill Hole	6	152
EX-756-B-6	3/4	1	Ball	6	152
EX-756-8	3/4	1	7/32 Drill Hole	8	203
EX-756-B-8	3/4	1	Ball	8	203
EX-1101	1 1/2	1	3/8 Drill Hole	3 9/16	91

# 1" Square Drive Universal Adapters

## 3/4" to 1" Male Square



Part Number	Male Sq. In.	Female Sq. In.	Type of Lock	Overall Length		Largest Diameter	
				In.	mm	In.	mm
MF-77	3/4	1	7/32 Drill Hole	4 3/4	121	2	51
MF-77B	3/4	1	Ball	4 3/4	121	2	51
MF-82	1	1	9/32 Drill Hole	5	127	2	51
MF-82B	1	1	Ball	5	127	2	51

*Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.*

# 1 1/4" Square Drive Adapter

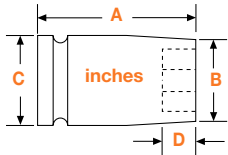
## 1" Male Square



Part Number	Male Square In.	Female Square In.	Type of Lock	Overall Length	
				In.	mm
EX-1008	1	1 1/4	9/32 Drill Hole	3 1/4	83

# 1 1/2" Square Drive Sockets, SAE

## 6 Point, Standard Length



Part Number 6 Point	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
9142	1 5/16	2 3/4	2 5/16	3	1 1/4
9148	1 1/2	2 3/4	2 1/2	3	1
9158	1 13/16	3	3	3	1 3/8
9160	1 7/8	3	3 1/8	3	1 1/4
9162	1 15/16	3	3 1/4	3 1/4	1 1/4
9172	2 1/4	3 1/4	3 3/8	3 1/4	1 1/2
9184	2 5/8	3 1/2	4	4	1 3/4
9196	3	3 5/8	4 1/2	4	1 7/8

# 1 1/2" Square Drive Adapters

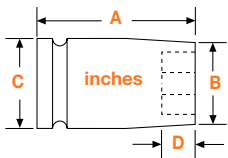
## 1" Male Square



Part Number	Male Square In.	Female Square In.	Type of Lock	Overall Length In.	Overall Length mm
EX-1005	1	1 1/2	9/32 Drill Hole	3 15/16	100
EX-1005-B	1	1 1/2	Ball	3 15/16	100

# 2 1/2" Square Drive Sockets, SAE

## 6 Point, Standard Length



Part Number 6 Point	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
0172	2 1/4	4 1/8	3 3/4	5	1 1/2
0176	2 3/8	4 1/8	3 7/8	5	1 3/4
0180	2 1/2	4 1/8	4	5	1 3/4
0184	2 5/8	4 1/8	4	5	1 7/8
0188	2 3/4	4 1/8	4 1/4	5	1 7/8
0192	2 7/8	4 1/8	4 1/2	5	1 7/8
01100	3 1/8	4 3/8	4 7/8	5	2 1/8
01112	3 1/2	4 3/4	5 1/2	5 1/2	2 1/2
01116	3 5/8	4 3/4	5 1/2	5 1/2	2 1/2
01120	3 3/4	4 3/4	5 3/4	5 3/4	2 1/2
01124	3 7/8	4 3/4	6	6	2 1/2
01128	4	4 7/8	6	6	2 5/8
01136	4 1/4	5 1/4	6	6	3
01144	4 1/2	5 3/8	6 1/2	6	3 1/8

# 2 1/2" Square Drive Adapter

## 1 1/2" Male Square



Part Number	Male Square In.	Female Square In.	Type of Lock	Overall Length In.	Overall Length mm
EX-1105	1 1/2	2 1/2	3/8 Drill Hole	5 3/8	137

# APEX® Solutions

## **Does Apex offer sockets for the installation of grease fittings?**

Specially designed Apex sockets are the easy way to install or remove grease fittings.

*(See page 153)*



## **What's the real advantage of using socket adapters?**

Socket adapters are an easy and economical solution for applications that require several different nut sizes.

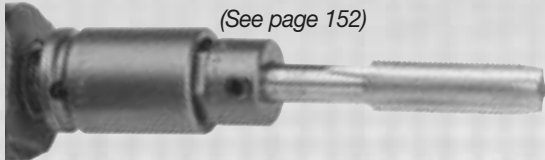
*(See pages 158 & 159)*



## **Does Apex offer tap holding sockets?**

Apex offers a wide variety of tap holding adapters. These adapters allow you to easily convert your power tool into a tap drill.

*(See page 152)*



## **What's the advantage of a male hex drive socket?**

A male hex drive socket lets you quickly accommodate a different nut size without pulling the primary socket off the power tool.

*(See page 160)*



# Notes



Lined writing area consisting of 25 horizontal lines.

# Reversible Sockets for SAE Hex Head Sheet Metal Screws

## Standard



\*Tapered Ends

Part Number	Hex Size	Overall Length	Outside Diameter	Roll Pin Part Number
SW-350	1/4	9/16	3/8	21-S-078-0375
SW-90	1/4	9/16	7/16	21-S-078-0437
SW-90-B*	1/4	9/16	7/16	21-S-078-0437
SW-984	5/16	9/16	9/16	21-S-078-0562
SH-575	11/32	9/16	9/16	21-S-078-0562
SH-400	3/8	11/16	11/16	21-S-078-0687
SH-401	7/16	23/32	3/4	21-S-078-0750
SH-402	13/16	3/4	13/16	21-S-078-0750

## Magnetic



\*Tapered Ends

Part Number	Hex Size	Overall Length	Outside Diameter	Spring Pin Part Number
MSW-350	1/4	31/32	3/8	21-S-078-0375
MSW-90	1/4	31/32	7/16	21-S-078-0437
MSW-90-B*	1/4	31/32	7/16	21-S-078-0437
MSW-984	5/16	31/32	9/16	21-S-078-0562
MSW-984-B*	5/16	31/32	9/16	21-S-078-0562
MSH-575	11/32	31/32	9/16	21-S-078-0562
MSH-400	3/8	1 1/8	11/16	21-S-078-0687
MSH-401	7/16	1 5/32	3/4	21-S-078-0750
MSH-402	13/16	1 3/16	13/16	21-S-078-0750

## Shanks for Reversible Sockets



Part Number	Male Hex Power Drive	Male Hex Size	Overall Length
SH-629	1/4	1/4	2
SH-629-P	1/4	1/4	2 Pin Lock
SH-629-3	1/4	1/4	3
SH-629-4	1/4	1/4	4
SH-629-5	1/4	1/4	5
SH-629-6	1/4	1/4	6
SH-57	1/4	1/4	2 Full Length Hex
SH-57-3	1/4	1/4	3 Full Length Hex
SH-57-4	1/4	1/4	4 Full Length Hex
SH-57-6	1/4	1/4	6 Full Length Hex
SH-57-8	1/4	1/4	8 Full Length Hex
SH-59	1/4	5/16	2
SH-59-3	1/4	5/16	3
SH-59-4	1/4	5/16	4
SH-59-6	1/4	5/16	6
SH-412	1/4	3/8	2
SH-413	1/4	7/16	2
SH-414	1/4	1/2	2
SH-913	7/16	5/16	2
SH-404	7/16	3/8	2
SH-406	7/16	1/2	2





# Tap Holding Sockets



## Male Hex Drive, SAE



(Tap not included)

Part Number	Tap Size	Male Hex	Socket Length		Socket Diameter	
			In.	mm	In.	mm
SJ-935-1/4	1/4	7/16	15/16	24	5/8	16
SJ-935-5/16	5/16	1/2	15/16	24	5/8	16
SJ-935-3/8FS	3/8	9/16	1	25	21/32	17
SJ-935-7/16	7/16	5/8	1	25	3/4	19
SJ-935-1/2	1/2	3/4	1 1/4	32	7/8	22

## Male Hex Drive, Metric



(Tap not included)

Part Number	Tap Size	Male Hex	Socket Length		Socket Diameter	
			In.	mm	In.	mm
SJ-935-10MXM6	M6	10	15/16	24	5/8	16
SJ-935-12MXM8	M8	12	15/16	24	5/8	16
SJ-935-14MXM10	M10	14	1	25	21/32	17
SJ-935-17MXM8	M8	17	1	25	13/16	21
SJ-935-17MXM12	M12	17	1	25	13/16	21

## Female Square Drive, SAE



Part Number	Tap Size	Female Square	Socket Length		Socket Diameter	
			In.	mm	In.	mm
HC-100-10	#10	3/8	1 1/2	38	3/4	19
HC-100-1/4	1/4	3/8	1 1/2	38	3/4	19
HC-100-5/16	5/16	3/8	1 1/2	38	3/4	19
HC-100-3/8FS	3/8	3/8	1 1/2	38	3/4	19
HC-100-7/16	7/16	3/8	1 1/2	38	3/4	19
HC-100-1/2	1/2	3/8	1 1/2	38	3/4	19
HC-100-5/8	5/8	3/8	1 3/4	46	1	25
HC-100-3/4	3/4	3/8	2	51	1	25
HE-100-1/4	1/4	1/2	1 1/2	38	7/8	22
HE-100-5/16	5/16	1/2	1 1/2	38	7/8	22
HE-100-3/8FS	3/8	1/2	1 1/2	38	7/8	22
HE-100-7/16	7/16	1/2	1 1/2	38	7/8	22
HE-100-1/2	1/2	1/2	1 5/8	41	7/8	22
HE-100-5/8	5/8	1/2	1 3/4	46	1	25
HE-100-3/4	3/4	1/2	2	51	1	25

# Grease Fitting Sockets



## For Angled Grease Fittings, Deep and Shallow Broach Depth



Part Number		Hex Size	Square Drive	Overall Length		Broach Depth		Magnet Depth	
6 Point	Magnetic			In.	mm	In.	mm	In.	mm
ZN-112	-	3/8	1/4	1 1/4	32	9/16	14	-	-
ZN-312	MZN-312	3/8	3/8	1 1/2	38	9/16	14	7/32	6
ZN-512	-	3/8	1/2	1 1/2	32	9/16	14	-	-
ZN-114	-	7/16	1/4	1 1/4	32	7/16	11	-	-
ZN-314	MZN-314	7/16	3/8	1 1/2	38	7/16	11	7/16	11
ZN-514	MZN-514	7/16	1/2	1 1/2	38	7/16	11	7/16	11
ZE-112	-	3/8	1/4	1 1/4	32	1/8	3	-	-
ZE-312	-	3/8	3/8	1 1/2	38	1/8	3	-	-
ZE-512	-	3/8	1/2	1 1/2	32	1/8	3	-	-
ZE-314	-	7/16	3/8	1 1/2	38	3/16	5	-	-
ZE-514	-	7/16	1/2	1 1/2	38	3/16	5	-	-

Slot oriented across flat.

## For Straight Grease Fittings



Part Number		Hex Size	Square Drive	Overall Length		Broach Depth		Magnet Depth	
6 Point	Magnetic			In.	mm	In.	mm	In.	mm
ZA-110	MZA-110	5/16	1/4	1	25	1/8	3	21/64	8
ZA-310	MZA-310	5/16	3/8	1 1/4	32	1/8	3	21/64	8
ZA-510	MZA-510	5/16	1/2	1 1/2	38	1/8	3	19/64	7
ZA-112	-	3/8	1/4	1	25	1/8	3	-	-
ZA-312	-	3/8	3/8	1 1/4	32	1/8	3	-	-
ZA-512	-	3/8	1/2	1 1/2	38	1/8	3	-	-
ZA-314	MZA-314	7/16	3/8	1 1/4	32	3/16	5	23/64	9
ZA-514	MZA-514	7/16	1/2	1 1/2	38	3/16	5	3/8	10


All Apex grease fitting sockets are not to be used with impact tools.

# Drill Holders



## 1/4" Male Hex Drive



Part Number	Drill Size	Overall Length		Body Diameter	
		In.	mm	In.	mm
WJ-284-7/64	7/64	2 5/8	67	1/2	13
WJ-284-1/8	1/8	2 5/8	67	5/8	16
WJ-284-9/64	9/64	2 5/8	67	5/8	16
WJ-284-5/32	5/32	2 5/8	67	3/4	19
WJ-284-3/16	3/16	2 5/8	67	3/4	19
WJ-284-1/4 	1/4	2 5/8	67	3/4	19
WJ-284-5/16	5/16	2 5/8	67	3/4	19
WJ-284-3/8	3/8	2 5/8	67	1	25
WJ-284-13/32	13/32	2 5/8	67	1	25

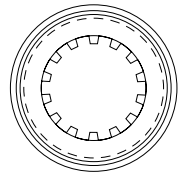
## 7/16" Male Hex Drive



Part Number	Drill Size	Overall Length		Body Diameter	
		In.	mm	In.	mm
WJ-265-1/8	1/8	2 3/8	60	5/8	16
WJ-265-9/64	9/64	2 3/8	60	5/8	16
WJ-265-13/64	13/64	2 3/8	60	3/4	19
WJ-265-5/32	5/32	2 3/8	60	3/4	19
WJ-265-3/16	3/16	2 3/8	60	3/4	19
WJ-265-1/4	1/4	2 3/8	60	3/4	19
WJ-265-5/16	5/16	2 3/8	60	3/4	19
WJ-265-7/16	7/16	2 3/8	60	1	25
WJ-265-3/8	3/8	2 3/8	60	1	25
WJ-265-1/2	1/2	2 3/8	60	1 1/8	29

# #5 (1 5/8") Spline Drive

## SAE Hex Opening Sockets



Part Number	Single Hex Opening		Overall Length		Diameter Nose End		Bolt Clearance	
	In.	In.	mm	In.	mm	In.	mm	
SPL-136	1 1/8	3 1/4	82	2	51	1 5/8	41	
SPL-138	1 3/16	3 1/4	82	2 3/8	60	1 5/8	41	
SPL-140	1 1/4	3 1/4	82	2 3/8	60	1 3/4	45	
SPL-142	1 5/16	3 1/4	82	2 3/8	60	1 3/4	45	
SPL-146	1 7/16	3 1/4	82	2 3/8	60	1 3/4	45	
SPL-148	1 1/2	3 3/8	86	2 3/8	60	1 1/2	38	
SPL-152	1 5/8	3 3/8	86	2 5/8	67	1 5/8	41	
SPL-154	1 11/16	3 1/2	89	2 5/8	67	1 3/4	45	
SPL-158	1 13/16	3 1/2	89	3	76	1 3/4	45	
SPL-160	1 7/8	3 1/2	89	3	76	1 7/8	48	
SPL-166	2 1/16	3 5/8	92	3 1/4	83	2	51	
SPL-170	2 3/16	3 5/8	92	3 1/4	83	2	51	
SPL-176	2 3/8	4	102	3 3/4	95	2 1/4	57	
SPL-188	2 3/4	4 1/4	108	4 1/4	108	2 3/8	60	

## Extensions



Part Number	Overall Length		
	In.	mm	
EXL-8	8	203	Female spline to male spline
EXL-15	15	381	Female spline to male spline

## Adapters



Part Number	
EXL-750	Female spline to 3/4" male square
EXL-1000	Female spline to 1" male square
EXL-1100	Female spline to 1 1/2" male square

# #5 (1 5/8") Spline Drive



## Universal Wrenches



### Part Number

MFL-250	Female spline to male spline (heavy duty)
MFL-1000	Female spline to 1" male square

Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°.

# #5 (1 5/8") Spline Drive Budd Wheel Sockets

## Combo. 13/16" Square 1 1/2" Hex



Part Number	Drive	Overall Length	
		In.	mm
HT-848	#5 Spline	4 1/4	108

# Socket Retaining Rings

## Plastic Retaining Ring



Part Number	Drive	Inside Diameter	
		In.	mm
10005S	3/4" Square	1 1/4	31.8
10032S	3/4" Square	1 7/16	36.5
10034S	3/4" Square	1 5/8	41.3
10008S	1" Square	1 3/4	44.5
10010S	1" Square	2	50.8
10015S	1" Square	2 1/8	54.0
10016S	1" Square	2 1/4	57.2
10017S	1" Square	2 1/2	63.5
10019S	1" Square	2 5/8	66.7
10020S	1 1/2" Square	2 7/8	73.0
10025S	1 1/2" Square	3 3/8	85.7
10030S	1 1/2" Square	3 7/8	98.4
10035S	1 1/2" Square	4 3/8	111.1

## Metal Retaining Ring



Part Number	Drive	Inside Diameter	
		In.	mm
MET-1301C	3/8" Square	.677	17.2
MET-1302C	3/8" Square	.771	19.6
MET-1401C	1/2" Square	.885	22.5
MET-1402C	1/2" Square	1.086	27.6
MET-1600C	3/4" Square	1.594	40.5
MET-1800C	1" Square	1.948	49.5

# Adapters



## #130-A Yankee Drive for Spiral Type Driver



Part Number	Male Square In.	Overall Length		Shank Diameter	
		In.	mm	In.	mm
YK-250	1/4	1 15/16	49	.277	7.0
YK-370	3/8	2 3/16	56	.277	7.0
YK-500	1/2	2 5/16	59	.277	7.0

## #131-A Yankee Drive for Spiral Type Driver



Part Number	Male Square In.	Overall Length		Shank Diameter	
		In.	mm	In.	mm
YK-251	1/4	1 15/16	49	.310	8.0
YK-371	3/8	2 3/16	56	.310	8.0
YK-501	1/2	2 5/16	59	.310	8.0

## #135-A Yankee Drive for Spiral Type Driver



Part Number	Male Square In.	Overall Length		Shank Diameter	
		In.	mm	In.	mm
YK-252	1/4	1 15/16	49	.215	5.5
YK-372	3/8	2 3/16	56	.215	5.5
YK-502	1/2	2 5/16	59	.215	5.5

## Female Threaded Adapters



Part Number	Female Thread	Male Square In.	Type of Lock
TH-257	3/8"-24	1/4	Pin
TH-377	3/8"-24	3/8	Pin
TH-501	3/8"-24	1/2	Pin
TH-378	1/2"-20	3/8	Pin
TH-502	1/2"-20	1/2	Pin

## Male Threaded Adapters



Part Number	Male Thread	Hex Drive
TM-24	3/8"-24	1/4
TN-24	3/8"-24	7/16
TM-20	1/2"-20	1/4
TN-20	1/2"-20	7/16

# Adapters



## Socket and Ratchet Wrench Adapters, SAE



Part Number	Male Square In.	Male Hex In.	Overall Length In.
A-108	1/4	1/4	25/32
A-110	1/4	5/16	25/32
A-112	1/4	3/8	25/32
A-114	1/4	7/16	25/32
A-116	1/4	1/2	25/32
A-118	1/4	9/16	25/32
A-120	1/4	5/8	25/32
A-312	3/8	3/8	1 1/64
A-314	3/8	7/16	1 1/64
A-316	3/8	1/2	1 5/64
A-318	3/8	9/16	1 5/64
A-320	3/8	5/8	1 5/64
A-322	3/8	11/16	1 5/64
A-324	3/8	3/4	1 5/64
A-326	3/8	13/16	1 5/64
A-328	3/8	7/8	1 5/64
A-512	1/2	3/8	1 3/32
A-514	1/2	7/16	1 3/32
A-516	1/2	1/2	1 3/32
A-518	1/2	9/16	1 3/32
A-520	1/2	5/8	1 1/8
A-522	1/2	11/16	1 1/8
A-524	1/2	3/4	1 1/8
A-526	1/2	13/16	1 1/8
A-528	1/2	7/8	1 1/8
A-530	1/2	15/16	1 1/8
A-532	1/2	1	1 1/8
A-534	1/2	1 1/16	1 1/8
A-536	1/2	1 1/8	1 1/8
A-538	1/2	1 3/16	1 1/8
A-540	1/2	1 1/4	1 1/8

## Socket and Ratchet Wrench Adapters, Metric



Part Number	Male Square In.	Male Hex mm	Overall Length	
			In.	mm
A-1-6mm	1/4	6	25/32	20
A-1-7mm	1/4	7	25/32	20
A-1-8mm	1/4	8	25/32	20
A-1-9mm	1/4	9	25/32	20
A-1-10mm	1/4	10	25/32	20
A-1-11mm	1/4	11	25/32	20
A-1-12mm	1/4	12	25/32	20
A-1-13mm	1/4	13	25/32	20
A-3-10mm	3/8	10	15/16	24
A-3-11mm	3/8	11	15/16	24
A-3-12mm	3/8	12	15/16	24
A-3-13mm	3/8	13	15/16	24
A-3-14mm	3/8	14	15/16	24
A-3-15mm	3/8	15	15/16	24
A-3-16mm	3/8	16	15/16	24
A-3-17mm	3/8	17	15/16	24
A-3-18mm	3/8	18	15/16	24
A-3-19mm	3/8	19	15/16	24
A-5-10mm	1/2	10	1 1/8	29
A-5-11mm	1/2	11	1 1/8	29
A-5-12mm	1/2	12	1 1/8	29
A-5-13mm	1/2	13	1 1/8	29
A-5-14mm	1/2	14	1 1/8	29
A-5-15mm	1/2	15	1 1/8	29
A-5-16mm	1/2	16	1 1/8	29
A-5-17mm	1/2	17	1 1/8	29
A-5-18mm	1/2	18	1 1/8	29
A-5-19mm	1/2	19	1 1/8	29
A-5-20mm	1/2	20	1 1/8	29
A-5-21mm	1/2	21	1 1/8	29
A-5-22mm	1/2	22	1 1/8	29
A-5-23mm	1/2	23	1 1/8	29
A-5-24mm	1/2	24	1 1/8	29
A-5-25mm	1/2	25	1 1/8	29

Refer to Page iv for description of Rapid Select.



# Adapters



## Sockets with Male Hex



Part Number	Female Hex In.	Male Hex In.	Overall Length	
			In.	mm
SJ-375	5/16	3/8	13/16	21
SJ-378	7/16	3/8	15/16	24
SJ-379	1/2	3/8	1	25
SJ-380	9/16	3/8	1	25
SJ-349	3/8	7/16	15/16	24
SJ-350	7/16	7/16	15/16	24
SJ-351	1/2	7/16	1	25
SJ-352	9/16	7/16	1	25
SJ-360	3/8	1/2	15/16	24
SJ-361	7/16	1/2	15/16	24
SJ-241	1/2	1/2	1	25
SJ-362	9/16	1/2	1	25
SJ-363	5/8	1/2	1 1/8	28
SJ-364	11/16	1/2	1 3/16	30
SJ-365	3/4	1/2	1 3/16	30
SJ-55	7/16	9/16	15/16	24
SJ-66	1/2	9/16	1	25
SJ-67	9/16	9/16	1	25
SJ-68	5/8	9/16	1 1/8	28

## Hex Drive Universal Adapters

### Male Hex to Male Square – Extension



(Tension Type Shown)

Part Number Standard	Tension	Male Sq. In.	Male Hex In.	Type of Lock	Overall Length		Largest Diameter	
					In.	mm	In.	mm
KCM-25-3	KSM-25-3	1/4	1/4	Pin	3	76	5/8	15.9
KCM-25-B-6	KSM-25-B-6	1/4	1/4	Ball	6	152	5/8	15.9
KCM-37-6	KSM-37-6	3/8	1/4	Pin	6	152	3/4	19.1
KCM-37-B-6	KSM-37-B-6	3/8	1/4	Ball	6	152	3/4	19.1
KBM-37-6	KTM-37-6	3/8	7/16	Pin	6	152	3/4	19.1

Universal wrenches must not be used with impact drivers. Maximum operating angle is 30°. Standard lengths are 3", 6", 9" and 12" (76, 152, 229 and 305mm).



















Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
SZ-14-19MM	40	SZ-31	39	SZ-5-7-12MM	124	SZ-87	39	TM-24•	157	TWD-5•	46	TX-3406	102	WJ-265-1/4	154	X-1108	77
SZ-14-22MM	40	SZ-31-A•	115	SZ-5-7-14MM	124	SZ-88	39	TN-20	157	TWD-5-ACR	46	TX-3407•	102	WJ-265-1/8	154	X-1110	77
SZ-14-24MM	40	SZ-32	39	SZ-5-7-3MM	40	SZ-89	39	TN-24	157	TWD-6•	46	TX-3408•	102	WJ-265-13/64	154	Y	16
SZ-14-27MM	40	SZ-32-A	115	SZ-5-7-4MM	40	SZ-8L-TX-70	24	TW-1	46	TWD-7	46	TX-3410•	102	WJ-265-17/32	154	Y-321	18
SZ-14-A•	115	SZ-33	39	SZ-5-7-5MM	40	SZ-9	38	TW-10	47	TWE-4	46	TX-3412•	102	WJ-265-3/16	154	YK-250	157
SZ-14-A-3	37	SZ-33-A	39	SZ-5-7-6MM	40	SZ-91	39	TW-11	47	TWE-5	46	TX-3414	102	WJ-265-3/8	154	YK-251	157
SZ-14-A-4	37	SZ-34	39	SZ-5-7-8MM	124	SZ-9-A	37	TW-12	47	TX-1104	84	TX-3416	102	WJ-265-5/16	154	YK-252	157
SZ-15•	95	SZ-34-A	39	SZ-7	38	SZ-TX-100	24	TW-13	47	TX-1105	84	TX-3508•	102	WJ-265-5/32	154	YK-370	157
SZ-15-A•	115	SZ-35	39	SZ-7-10-10MM	40	SZ-TX-100-A	20	TW-14	47	TX-1106	84	TX-3E08	103	WJ-265-9/64	154	YK-371	157
SZ-15-A-2	37	SZ-35-A	39	SZ-7-10-12MM	40	SZ-TX-55-A•	20	TW-15	47	TX-1108•	84	TX-3E10	103	WJ-284-1/4•	154	YK-372	157
SZ-15-A-3	37	SZ-36	39	SZ-7-10-14MM	40	SZ-TX-60-A	20	TW-2	46	TX-1110	84	TX-3E12	103	WJ-284-1/8	154	YK-500	157
SZ-15-A-4	37	SZ-36-A	39	SZ-7-10-17MM	40	SZ-TX-70-A	20	TW-3•	46	TX-1112	84	TX-3E14	103	WJ-284-13/32	154	YK-501	157
SZ-16•	95	SZ-37	39	SZ-7-10MM	124	SZ-TX-70-A-3	20	TW-4•	46	TX-1404•	84	TX-3E16	103	WJ-284-3/16	154	YK-502	157
SZ-16-A•	115	SZ-3-7-10MM	40	SZ-7-12MM	124	SZ-TX-80-A	20	TW-5•	46	TX-1405•	84	TX-5110	125	WJ-284-3/8	154	ZA-110	153
SZ-16-A-3	37	SZ-3-7-4MM	40	SZ-7-14MM	124	SZ-TX-90-A	20	TW-5-ACR	46	TX-1406•	84	TX-5112•	125	WJ-284-5/16	154	ZA-112	153
SZ-16-A-4	37	SZ-3-7-5MM	40	SZ-7-3MM	40	T•	16	TW-6	47	TX-1407	84	TX-5114•	125	WJ-284-5/32	154	ZA-310	153
SZ-17	38	SZ-3-7-6MM	40	SZ-7-4MM	101	T-320•	17	TW-7	47	TX-1408•	84	TX-5116	125	WJ-284-7/64	154	ZA-312	153
SZ-17-A	115	SZ-3-7-8MM	40	SZ-7-5MM	101	T-321	18	TW-8	47	TX-1410	84	TX-5118•	125	WJ-284-9/64	154	ZA-314•	153
SZ-18	38	SZ-37-A	39	SZ-7-6MM•	101	T-328	17	TW-9	47	TX-1411	84	TX-5120	125	WSGSF-8MM		ZA-510	153
SZ-18-A	115	SZ-38	39	SZ-7-8MM	124	TH-250	67	TWA-4	47	TX-1412	84	TX-5124	125	-B1.25	100	ZA-512	153
SZ-19	38	SZ-38-A	39	SZ-7-A	37	TH-252	67	TWA-5	47	TX-1E04	84	TX-5408	125	WSGSF-10MM		ZA-514	153
SZ-19-A	115	SZ-39	39	SZ-8-14-17MM	40	TH-254	67	TWA-6	47	TX-1E05	84	TX-5410•	125	-B1.25	100	ZE-112	153
SZ-20•	38	SZ-39-A	39	SZ-8-14-19MM	40	TH-256	67	TWA-7	47	TX-1E06	84	TX-5412•	125	WSGSF-13MM		ZE-312	153
SZ-21•	38	SZ-40•	38	SZ-8-14-22MM	40	TH-257	157	TWA-8	47	TX-1E08	84	TX-5414	125	-B1.50	100	ZE-314	153
SZ-22•	115	SZ-41•	38	SZ-8-14-24MM	40	TH-370	67	TWB-6	46	TX-1E10	84	TX-5416	125	WSESF-13MM		ZE-512	153
SZ-23•	115	SZ-42•	115	SZ-8-14-27MM	40	TH-372	67	TWB-7	46	TX-3106	102	TX-5418	125	-B1.50	123	ZE-514	153
SZ-24•	115	SZ-43	115	SZ-82	39	TH-376	67	TWB-8	46	TX-3107•	102	TX-5420	125	WSESF-15MM		ZN-112	153
SZ-25	115	SZ-44	115	SZ-83	39	TH-377	157	TWD-1	46	TX-3108•	102	U	16	-B1.50	123	ZN-114	153
SZ-26	115	SZ-5-10-14MM	124	SZ-84	39	TH-378	157	TWD-2•	46	TX-3110•	102	U-321	18	WSESF-18MM		ZN-312	153
SZ-27	38	SZ-5-10-17MM	124	SZ-85	39	TH-501	157	TWD-3•	46	TX-3112•	102	W	16	-B1.50	123	ZN-314	153
SZ-30	39	SZ-5-10-19MM	40	SZ-85-A	39	TH-502	157	TWD-4•	46	TX-3114	102	W-321	18	WSESF-21MM		ZN-512	153
SZ-30-A	39	SZ-5-7-10MM	124	SZ-86	39	TM-20	157	TWD-4-ACR	46	TX-3116	102	WJ-265-1/2	154	-B1.50	123	ZN-514	153

•Denotes a Rapid Select item. Refer to Page iv for description of Rapid Select.

# Screwdriver Bit Quotation Worksheet

For quotation only. Not an order.



Name \_\_\_\_\_ Title \_\_\_\_\_

Company \_\_\_\_\_

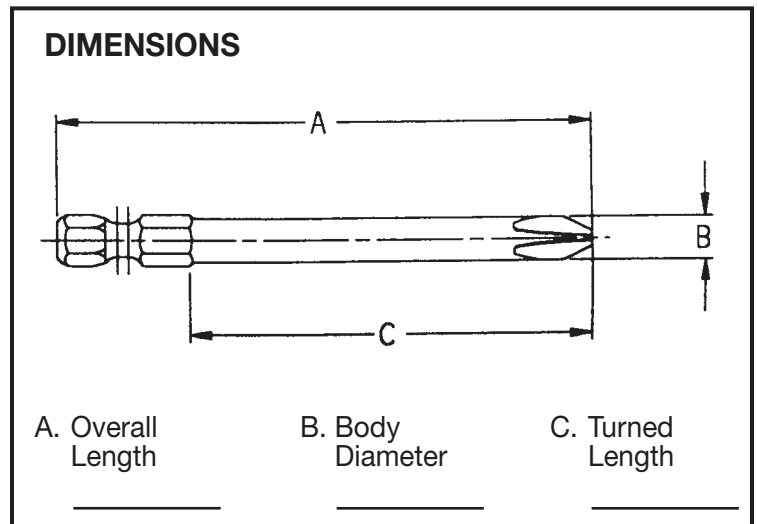
Address \_\_\_\_\_

Phone \_\_\_\_\_ FAX \_\_\_\_\_

Style	Point Size	Style	Point Size
<input type="checkbox"/> Phillips	_____	<input type="checkbox"/> Frearson/Reed Prince	_____
<input type="checkbox"/> Phillips ACR®	_____	<input type="checkbox"/> Socket Head	_____
<input type="checkbox"/> Slotted	_____	<input type="checkbox"/> Socket/Robertson	_____
<input type="checkbox"/> Torx®	_____	<input type="checkbox"/> Torx-Set®	_____
<input type="checkbox"/> Torx Plus®	_____	<input type="checkbox"/> Triple Square	_____
<input type="checkbox"/> Pozidriv®	_____	<input type="checkbox"/> Tri-Wing	_____
		<input type="checkbox"/> Other	_____

### Drive Type

<input type="checkbox"/> Hex Insert		Size _____
<input type="checkbox"/> Hex Power		_____
<input type="checkbox"/> Threaded		_____
<input type="checkbox"/> Female Square		_____
<input type="checkbox"/> Other		_____



Quantity \_\_\_\_\_

APPLIED or DRIVING TORQUE \_\_\_\_\_

Additional Specifications \_\_\_\_\_

# Sockets Quotation Worksheet

For quotation only. Not an order.



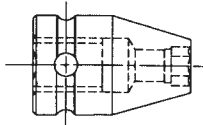
Name \_\_\_\_\_ Title \_\_\_\_\_

Company \_\_\_\_\_

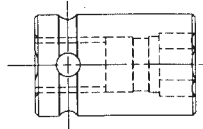
Address \_\_\_\_\_

Phone \_\_\_\_\_ FAX \_\_\_\_\_

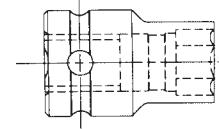
## Socket Type



Type A (tapered)



Type B (straight)



Type C (shouldered)

## Broach Opening

- |  |  |
|--|--|
| <input type="checkbox"/> Hex           | <input type="checkbox"/> Fast Lead     |
| <input type="checkbox"/> Double Hex    | <input type="checkbox"/> Surface Drive |
| <input type="checkbox"/> Square        | <input type="checkbox"/> Torx®         |
| <input type="checkbox"/> Double Square | <input type="checkbox"/> Other         |

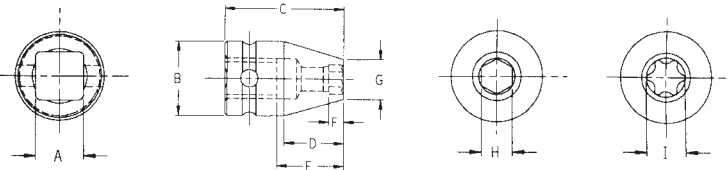
## Magnetic

- Magnetic Bolt Clearance (MB)
- Magnetic Bolt Clearance, with retaining ring (RMB)
- Strip Magnet (SM)
- Fixed Magnet (M)
- Non-magnetic

## Drive Configuration

- DIN Standard
- No DIN groove
- Cross Hole (one wall only)

## DIMENSIONS



- A. Square drive \_\_\_\_\_
- B. Drive end diameter \_\_\_\_\_
- C. Overall length \_\_\_\_\_
- D. Taper or shoulder length \_\_\_\_\_
- E. Bolt clearance depth \_\_\_\_\_
- F. Broach depth \_\_\_\_\_
- G. Nose end diameter \_\_\_\_\_
- H. Broach opening \_\_\_\_\_
- I. Torx® size \_\_\_\_\_

Quantity \_\_\_\_\_

APPLIED or DRIVING TORQUE \_\_\_\_\_

Additional Specifications \_\_\_\_\_

# Universal Wrench Quotation Worksheet

For quotation only. Not an order.



Name \_\_\_\_\_ Title \_\_\_\_\_

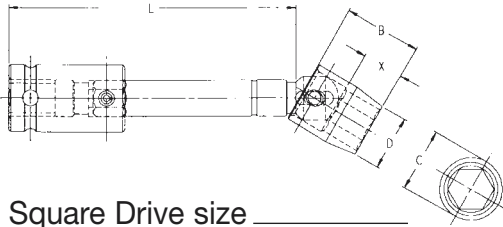
Company \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ FAX \_\_\_\_\_

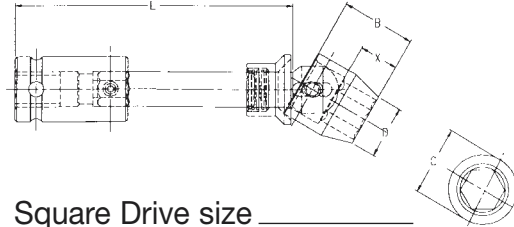
## DIMENSIONS

Female square drive, standard type



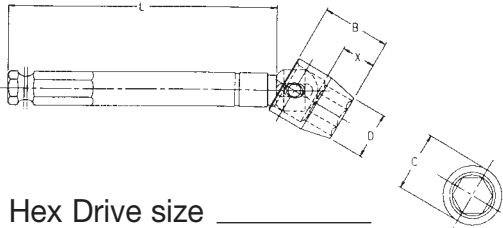
Square Drive size \_\_\_\_\_

Female square drive, tension type



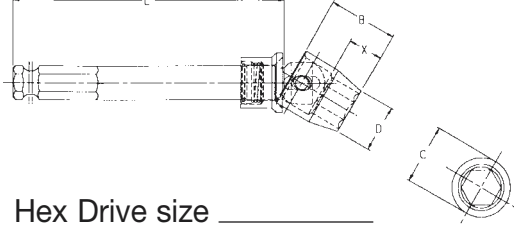
Square Drive size \_\_\_\_\_

Male hex drive, standard type



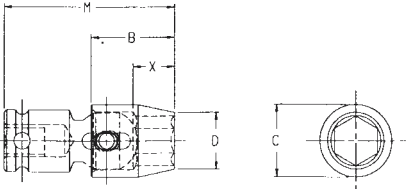
Hex Drive size \_\_\_\_\_

Male hex drive, tension type



Hex Drive size \_\_\_\_\_

Female square drive, (short)



Square Drive size \_\_\_\_\_

B. Socket length \_\_\_\_\_ C. Socket diameter\* \_\_\_\_\_

D. Socket nose dia. \_\_\_\_\_ G. Depth of Clearance \_\_\_\_\_

L. Shank length \_\_\_\_\_ M. Overall length \_\_\_\_\_

\*Standard diameters are 5/8", 3/4", 7/8", 1", 1 1/4", 1 1/2", 1 3/4", 2"

## BROACH OPENING STYLE & SIZE

Hex \_\_\_\_\_

Double Hex \_\_\_\_\_

Quantity \_\_\_\_\_

Male square

- Pin lock \_\_\_\_\_
- Ball lock \_\_\_\_\_
- Hole \_\_\_\_\_

APPLIED or DRIVING TORQUE \_\_\_\_\_

Additional Specifications \_\_\_\_\_



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P.O. Box 952  
Dayton, OH 45401-0952  
Phone: (937) 222-7871  
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