



CASERMEIRO S.R.L.

Fastener Tools

Apex®



coOPER PowerTools

Table of Contents

Introduction	iv
Bits	
Phillips	1
Slotted	6
Torx®	10
Torx Plus®	12
Pozidriv®	13
Sel-O-Fit®	14
Frearson	15
B.N.A.E.	15
Socket Head	16
Square Recess	18
Pipe Plug Inserts	20
Torq-Set®	21
Tri-Wing®	22
Hi-Torque®	23
Triple Square	23
Bit Holders	
Hex Drive	25
Female Square Drive	26
Hand Drivers	
Replaceable Bit	28
Awls	28
Hex Drive Nutsetters, Extensions & Universal Wrenches	
Nutsetters	27
Extensions	29
Universal Wrenches	31
1/4" Drive Sockets, Extensions, Adapters & Universal Wrenches	
SAE Sockets and Universal Wrenches ..	35
Metric Sockets and Universal Wrenches ..	37
Spline and Torx® Sockets	38
Extensions and Adapters	39
3/8" Drive Sockets, Extensions, Adapters & Universal Wrenches	
SAE Sockets & Universal Wrenches ..	40
Metric Sockets & Universal Wrenches ..	44
Spline & Torx® Sockets	47
Extensions & Adapters	47
1/2" Drive Sockets, Extensions, Adapters & Universal Wrenches	
SAE Sockets & Universal Wrenches ..	48
Metric Sockets & Universal Wrenches ..	54
Spline & Torx® Sockets	58
Extensions & Adapters	58
5/8" Drive Sockets, Extensions, Adapters & Universal Wrenches	
SAE Sockets & Universal Wrenches ..	60
Metric Sockets	61
Extensions & Adapters	61
3/4" Drive Sockets, Extensions, Adapters & Universal Wrenches	
SAE Sockets & Universal Wrenches ..	62
Metric Sockets	64
Extensions & Adapters	64
1" Drive Sockets, Extensions & Adapters	
SAE Sockets & Budd Wheel Sockets ..	65
Metric Sockets	66
Extensions & Adapters	66
1 1/2" Drive SAE Sockets & Adapters	67
2 1/2" Drive SAE Sockets & Adapters	67
Anti-Mar Protective Covers	
μ-Guard	68
Free-Spin	72
Engineered Solutions	76
Special Sockets, Adapters & Accessories	
Reversible Sockets	82
Tap Holding Sockets	82
Grease Fitting Sockets	83
Drill Holders	83
Extensions & Adapters, Universal	
Wrenches & Budd Wheel Sockets	83
Socket Retaining Rings	84
Adapters	84
Quotation Worksheets	86
Part Number Index	89

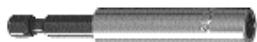
Quick Reference

APEX



Bits

1 – 24



Bit Holders

25 – 26



Hand Drivers

28



Hex Drive Nutsetters, Extensions & Universal Wrenches

27 – 31



1/4" Sockets, Extensions, Adapters & Universal Wrenches

35 – 39



3/8" Sockets, Extensions, Adapters & Universal Wrenches

40 – 48



1/2" Sockets, Extensions, Adapters & Universal Wrenches

49 – 59



5/8"-2 1/2" Sockets, Extensions, Adapters & Universal Wrenches

60 – 67



Anti-Mar Protective Covers

68– 80



Special Sockets, Adapters & Accessories

81 – 85

Part Number Index

89 – 95

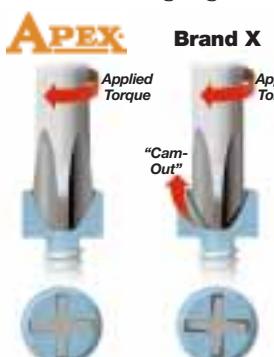
The Apex heritage of quality, delivery and support



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.

Precision Fit

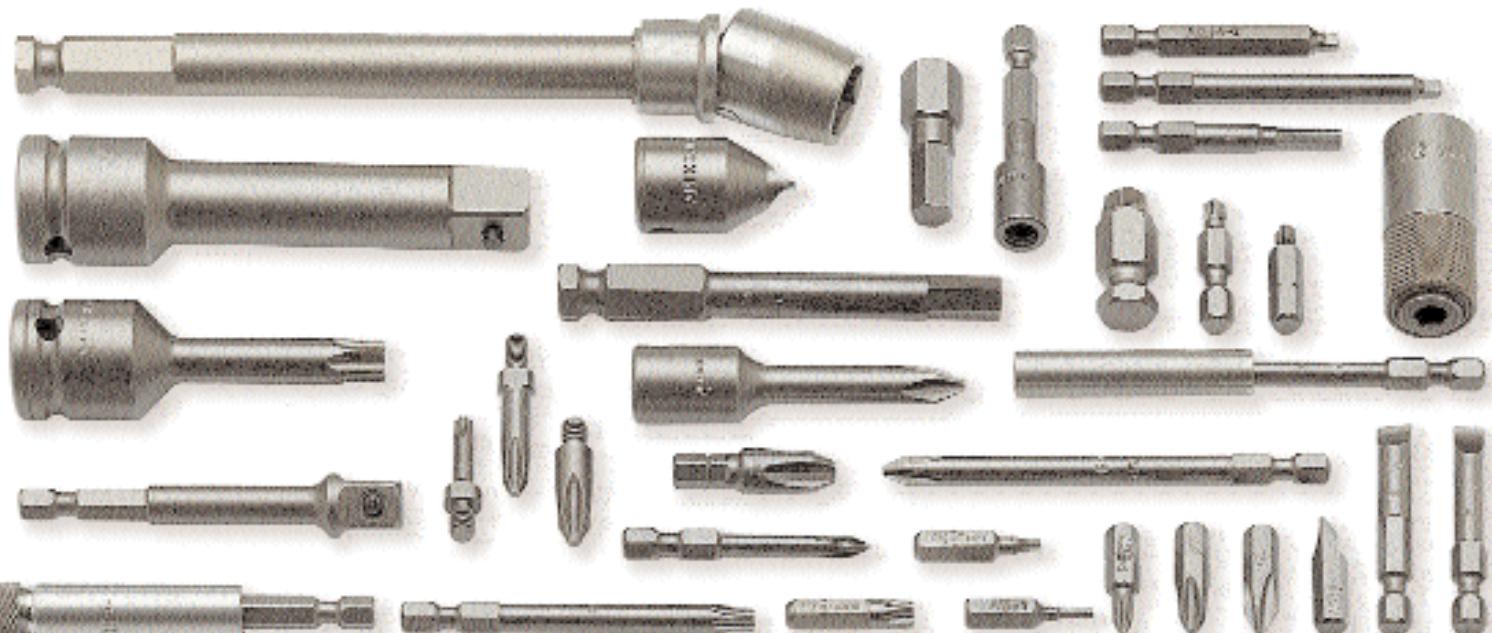
Apex quality begins with select raw materials. Only carefully chosen, high grade tool steel is used. Each tool is manufactured to the tightest tolerances in the industry...most are even tighter than licensing agreement requirements. Our bits meet the most stringent government and military specifications where applicable (ie. MIL-B-9946/5 for HTS Hi-Torque® bits used in aerospace assembly).



Precision fit of Apex tools eliminates "cam-out" and premature bit failure.

Apex sockets, nutsetters and universal wrenches have hex tolerances that are on average 48% tighter than DIN and 35%

tighter than ANSI requirements. With Apex you are assured of an exact, sure fit.



All Apex sockets and extensions have the tightest tolerances for straightness and concentricity in the industry. Tools that run true perform better and last longer.

Lasting Performance

Each Apex tool is tempered with our proprietary heat treating process that lets you select the degree of hardness your particular application requires. Choose from tough, non-brittle



durability that stands up to torque, to the hardest heat treat available in the industry for the ultimate in wear resistance.

Apex offers a choice of three heat treat hardness levels in many of our screwdriver bits to match the application. These heat treats are specified by a letter suffix as follows:

- X - Hardest heat treat in the industry**
- I - Intermediate hardness**
- R - Lowest hardness**

Our experienced staff can help in selecting the best heat treat for your particular application.

odds are, we may have what you need as a non-catalog item. If not, our experienced staff of tooling experts can design and manufacture "specials" to meet the needs of your specific applications. You can even submit special requests on-line at our website www.apex-tools.com by completing the simple forms.

This flexibility has helped make Apex the only manufacturer which is a market and technology leader in all of the following industrial product categories: Bits & Bit Holders, Impact Sockets, Extensions and Universal Wrenches.

Innovative Solutions

Throughout our history Apex has partnered with the leading fastener manufacturers to assist in the development of new fastening technologies. Today, many of these new tools that are now common can trace their history back to Apex engineering.



Recently Apex introduced a family of protective covers to satisfy the growing demand for products that prevent in-system damage. The family includes **µGuard™**, **FreeSpin™** and **Engineered Products**.

Unsurpassed Offering



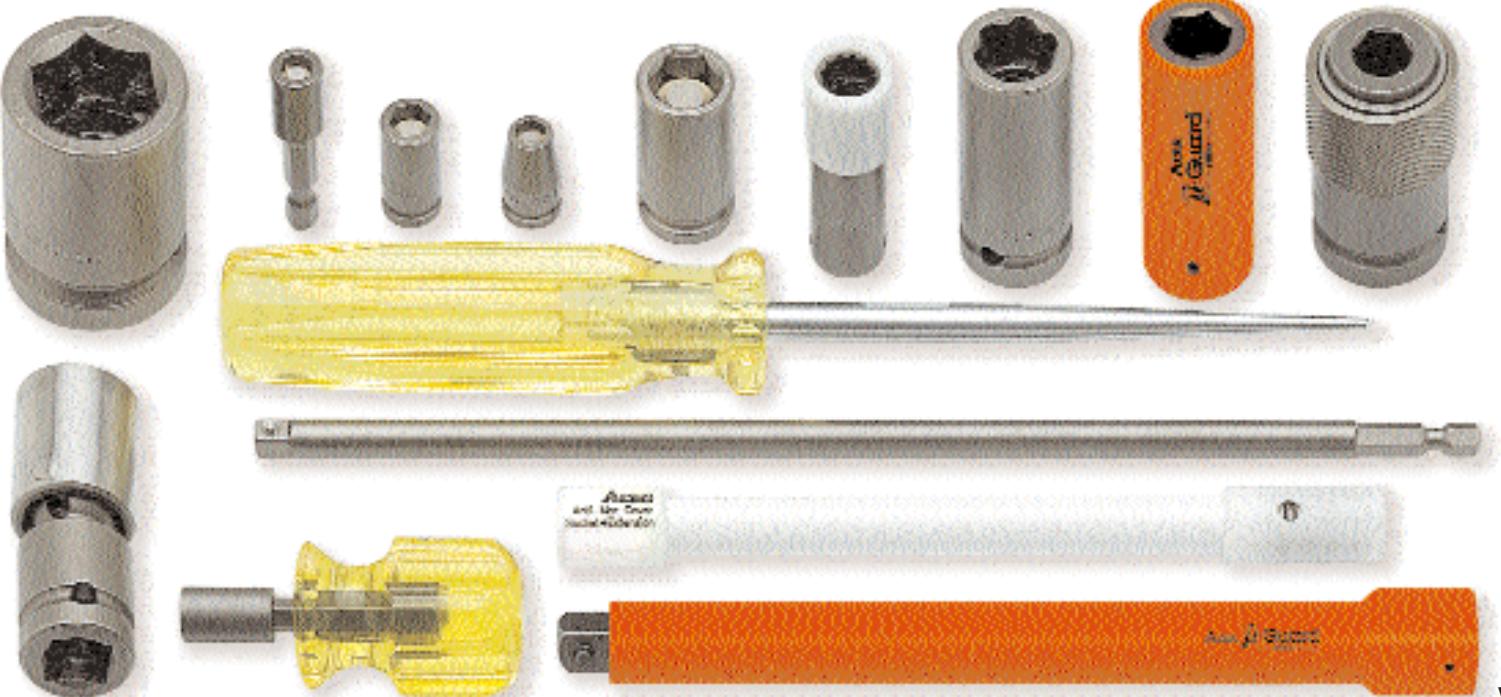
This catalog contains 3,000+ of the most frequently requested bits, sockets and fastening accessories. Our entire active offering approaches 10,000 sellable part numbers. If the tool you need does not appear in this catalog, give us a call. The

Availability & Service

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



COOPER PowerTools



Important Notes

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 in the industry**
I - Intermediate hardness
R - Lowest hardness

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

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

If a failure occurs, a change in hardness may result in better service. The "X" heat treat is most common and should be selected unless the specifics of an application or an existing problem would suggest using "I" or "R" hardness.

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

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

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.



Solutions



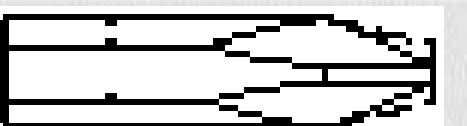
What's the difference between an insert and a power bit?

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 25-26 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.

If the tool you need does not appear in this catalog, give us a call. The odds are, we may have what you need as a non-catalog item. If not, our experienced staff of tooling experts can design and manufacture "specials" to meet the needs of your specific application. Give us a call at 1-800-845-5629 or visit our website www.apex-tools.com.

In this section...

Insert and Power Drive Bits



For all these fastener styles:



Phillips®



Pozidriv®



Square Recess



Slotted



Sel-o-fit®



Torq-Set®



Torx®



Frearson



Tri-Wing®



Torx Plus®



B.N.A.E.



Hi-Torque®



Torx® Tamper Resistant

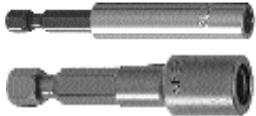


Socket Head



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 Body Dia.	Flat, Oval	Round	Flat, Oval, Binding	Machine Screws Round, Fillister	Truss, Brazier, Button	Sheet Metal Screws Flat, Round, Oval, Stove, Binding
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		
	9	9	10				
	10						
3	5/16	10	12	12	12	12	12
	12	14	1/4	1/4	1/4	14	
	14	16	5/16				
	16						
4	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.

Phillips Bits +

APEX

1/4" Hex Insert Bits



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

*For shallow screw recesses. See Tool Tip on page 7

1/4" Hex Insert Bits – Limited Clearance



Part Number	Point Size	Overall Length In.	Turned Length (A)		Turned OD (B)	
			In.	mm	In.	mm
446-0X	0	1	25	7/16	11	0.108 4.06
446-1X	1	1	25	7/16	11	0.108 4.06
446-12X	1	2	51	7/16	11	0.108 4.06
SD-1055-A	1	2	51	1 3/8	35	0.108 4.06
446-2X	2	1	25	7/16	11	0.108 4.06
446-2I	2	1	25	7/16	11	0.108 4.06
446-215X	2	1 1/2	38	7/16	11	0.108 4.06
446-22X	2	2	51	7/16	11	0.108 4.06
446-215T	2	1 1/2	38	1	25	0.108 4.06
446-22TX	2	2	51	1 1/2	38	0.108 4.06
446-225T	2	2 1/2	64	1 3/4	44	0.108 4.06
446-23T	2	3	76	2 1/4	57	0.108 4.06
446-27X*	2	1	25	7/16	11	0.108 4.06

* For shallow screw recesses see Tool Tip on page 5.

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

ACR® is a trademark of the Phillips Screw Co.

1/4" Hex Insert Bits – ACR®

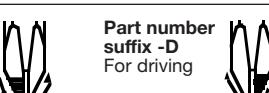


Part Number	Point Size	Overall Length In.	mm
440-1-ACR1-RX	1	1	25
440-1-ACR1-DX	1	1	25
440-1-ACR1X	1	1	25
440-2-ACR2-RX	2	1	25
440-2-ACR2-RI	2	1	25
440-2-ACR2-DX	2	1	25
440-2-ACR2X	2	1	25
446-2-ACR2-DX	2	1	25
440-22-ACR2-RX	2	2	51
440-22-ACR2-DX	2	2	51
440-22-ACR2X	2	2	51
440-3-ACR3-RX	3	1	25
440-3-ACR3-DX	3	1	25
440-3-ACR3X	3	1	25

Part number suffix -R
For removal



Part number suffix -D
For driving



No part number suffix
For both removal and driving



5/16" Hex Insert Bits



Part Number	Point Size	Overall Length In.	mm
480-1X	1	1 1/4	32
480-2X	2	1 1/4	32
480-22X	2	2	51
480-225X	2	2 1/2	64
480-24X	2	4	101
480-3X	3	1 1/4	32
480-325X	3	2 1/2	64
480-34X	3	4	101
480-4X	4	1 1/4	32
480-4BNX	4	1 1/2	38
480-425X	4	2 1/2	64

5/16" Hex Insert Bits – ACR®



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

Part number suffix -R
For removal



Part number suffix -D
For driving



No part number suffix
For both removal and driving

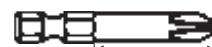


5/16" Square Insert Bits



Part Number	Point Size	Overall Length	
		In.	mm
830-1X	1	1 1/8	29
830-2X	2	1 1/8	29
830-3X	3	1 1/8	29
830-4X	4	1 1/8	29

1/4" Hex Power Drive



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

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

* For shallow screw recesses. See Tool Tip on page 5.

ACR® is a trademark of the Phillips Screw Co.

1/4" Hex Power Drive – ACR®



Part Number	Point Size	Overall Length		Body Diameter	Turned Length
		In.	mm	In.	mm
491-ACR1-RX	1	1 15/16	49	3/16	4.8
491-ACR1-DX	1	1 15/16	49	3/16	4.8
491-ACR1X	1	1 15/16	49	3/16	4.8
492-ACR2-RX	2	1 15/16	49	1/4	6.4
492-ACR2-DX	2	1 15/16	49	1/4	6.4
492-ACR2X	2	1 15/16	49	1/4	6.4
492-A-ACR2-DX	2	2 3/4	70	1/4	6.4
492-A-ACR2X	2	2 3/4	70	1/4	6.4
492-B-ACR2-DX	2	3 1/2	89	1/4	6.4
492-B-ACR2X	2	3 1/2	89	1/4	6.4
492-C-ACR2-DX	2	6	152	1/4	6.4
493-ACR3X	3	1 15/16	49	5/16	7.9

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

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

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10-32 Screw Shank Drive

Part Number	Point Size	Overall Length		Body Diameter	
		In.	mm	In.	mm
501X	1	1 1/2	38	3/16	4.8
501-AX	1	1 13/16	46	3/16	4.8
502X	2	1 1/2	38	1/4	6.4
502-ACR2X*	2	1 1/2	38	1/4	6.4
SD-1342-2	2	1 3/4	45	1/4	6.4
502-AX	2				



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 page 10)

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



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.

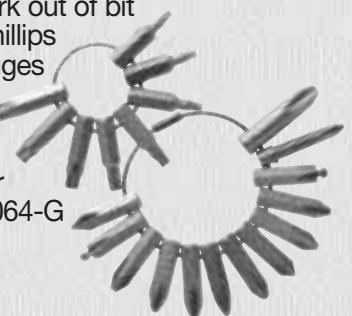


(See page 9)

If the tool you need does not appear in this catalog, give us a call. The odds are, we may have what you need as a non-catalog item. If not, our experienced staff of tooling experts can design and manufacture "specials" to meet the needs of your specific application. Give us a call at 1-800-845-5629 or visit our website www.apex-tools.com.

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®.



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.



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% **TORX®** more drive cycles. Torx Plus® bits are not compatible with standard Torx® fasteners.

(See pages 10-12)



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 21-22)



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

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.

(See pages 138-146 for more information)



How do Torxalign® bits work?

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



(See pages 11)

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 page 13)



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.

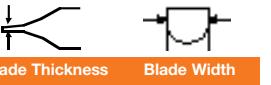
Screw Sizes	Diameter of Head									
	Flat Head Wood	Oval Head Mach.	Round Head Wood	Round Head Mach.	Truss Head	Binding Head Cap	Fillister Cap Mach.	Pan Head	Width of slot	
1	.146	.146	.138	.138			.118		.026	
	.130	.130	.122	.122			.104		.019	
2	.172	.172	.162	.162	.194	.181	.140	.167	.031	
	.156	.156	.146	.146	.180	.171	.124	.155	.023	
3	.199	.199	.187	.187	.226	.208	.161	.193	.035	
	.181	.181	.169	.169	.211	.197	.145	.180	.027	
4	.225	.225	.211	.211	.257	.235	.183	.219	.039	
	.207	.207	.193	.193	.241	.223	.166	.205	.031	
5	.252	.252	.236	.236	.289	.263	.205	.245	.043	
	.232	.232	.217	.217	.272	.249	.187	.231	.035	
6	.279	.279	.260	.260	.321	.290	.226	.270	.048	
	.257	.257	.240	.240	.303	.275	.208	.256	.039	
7	.305		.285		.352		.296		.048	
	.283		.264		.333		.281		.039	
8	.332	.332	.309	.309	.384	.344	.270	.322	.054	
	.308	.308	.287	.287	.364	.326	.250	.306	.045	
9	.358		.334						.054	
	.334		.311						.045	
10	.385	.385	.359	.359	.448	.339	.313	.373	.060	
	.359	.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



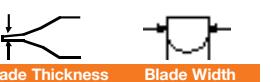
1/4" Hex Insert Bits – Limited Clearance

Part Number	Screw Size	Length		Blade Thickness	Blade Width		
		In.	mm	In.	mm	In.	mm
445-000X	1F-2R	1	25	.021	.53	.125	3.2
445-00X	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
445-20X	5F-6R	1	25	.036	.91	.216	5.5
445-30X	6F-7R	1	25	.038	.97	.248	6.3
445-00-15X	2F-3R	1 1/2	38	.028	.71	.138	3.5
445-0-15X	3F-4R	1 1/2	38	.032	.81	.154	3.9
445-10-15X	4F-5R	1 1/2	38	.034	.86	.185	4.7
445-20-15X	5F-6R	1 1/2	38	.036	.91	.216	5.5
445-30-15X	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
445-1-15X	4F-5R	1 1/2	38	.034	.86	3/16	4.8
445-2-15X	6F-8R	1 1/2	38	.040	1.02	7/32	5.6
445-3-15X	8F-10R	1 1/2	38	.042	1.07	1/4	6.4
445-4-15X	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
485-1X	4F-5R	1 1/2	38	.034	.86	3/16	4.8
485-2X	6F-8R	1 1/2	38	.040	1.02	7/32	5.6
485-3X	8F-10R	1 1/2	38	.042	1.07	1/4	6.4
485-4X	10F-12R	1 1/2	38	.046	1.17	.296	7.52
485-5X	12F-14R	1 1/2	38	.050	1.27	.328	8.33
485-6X	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 In.	Length mm	Blade Thickness In.	Blade Thickness mm	Body Diameter In.
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Slotted Bits



5/16" Hex Power Drive



Part Number	Screw Size	Length In.	Blade Thickness mm	Blade Width/Body Diameter In. mm
635-6X	10F-12R	2 1/4	.57	.046 .17 .360 9.14
635-7X	12F-14R	2 1/4	.57	.050 .127 .395 10.03
635-8X	14F-16R	2 1/4	.57	.055 .140 .457 11.61
635-9X	16F-20R	2 1/4	.57	.060 .152 .503 12.78
635-10X	20F-22R	2 1/4	.57	.062 .157 .545 13.84

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10-32 Screw Shank Drive



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

1/4"-24 Screw Shank Drive



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

Slotted Bits



APEX

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	D Max. In. mm	D Min. In. mm	Sleeve Length G In. mm	Sleeve Diameter E In. mm
L	5F-6R	.260	.233	.592	1 7/8 47.6 3/8 9.5
M	6F-6R	.309	.261	6.63	1 7/8 47.6 7/16 11.1
P	8F-6R	.368	.310	7.87	1 7/8 47.6 1/2 12.7
NP*	8F-10R	.368	.310	7.87	1 7/8 47.6 7/16 11.1
R	10F-12R	.415	.369	9.37	2 50.8 9/16 14.3
S	12F-14R	.478	.416	10.57	2 50.8 5/8 15.9
T	14F-16R	.522	.479	12.17	2 1/8 54.0 11/16 17.5
U	16F-20R	.621	.523	13.28	2 1/8 54.0 3/4 19.1
W	20F-22R	.665	.622	15.80	2 1/16 52.4 13/16 20.3
Y	24F-24R	.715	.666	16.92	2 1/32 51.6 15/16 23.8

*Sleeve NP is a cup type sleeve.

Slotted Power Bits with Finder Sleeves

1/4" Hex Power Drive

Part No. Complete Assembly	Part No. Bit Only	Screw Size	Bit Length In. mm	Blade Thickness In. mm	Bit Body Diameter In. mm
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-320X	320-SX	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 In. mm	Blade Thickness In. mm	Bit Body Diameter In. mm
OOOL-322X	322-000LX	2F-3R	2 3/32 53	.026 .66	.138 3.91
OOL-322X	-	3F-4R	2 3/32 53	.030 .76	.154 3.91
OL-322X	322-0LX	4F-5R	2 5/32 55	.034 .86	.185 4.70
L-322X	-	5F-6R	2 5/32 55	.036 .91	.185 4.70
M-322X	322-MX	6F-8R	2 5/32 55	.040 1.02	.248 6.30
P-322X	-	8F-10R	2 5/32 55	.042 1.07	.283 7.19
R-322X	-	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 In. mm	Blade Thickness In. mm	Bit Body Diameter In. mm
L-328X	328-LX	5F-6R	6 1/2 165	.036 .91	.193 4.90
M-328X	328-MX	6F-8R	6 1/2 165	.038 .97	.241 6.12
P-328X	328-PX	8F-10R	6 1/2 165	.046 1.07	.290 7.37
R-328X	328-RX	10F-12R	6 1/2 165	.046 1.17	.350 8.89
S-328X	328-SX	12F-14R	6 1/2 165	.050 1.27	.395 10.03

7/16" Hex Power Drive with Finder Sleeves

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

See chart on page 14 for sleeve diameters.

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.



1/4" Hex Insert Bits

Part Number	Torxalign® Part Number	Driver Size		Overall Length In.	mm
440-TX-05X	-	T-5	.055	1	25
440-TX-06X	-	T-6	.065	1	25
440-TX-07X	-	T-7	.077	1	25
440-TX-08X	-	T-8	.090	1	25
440-TX-09X	-	T-9	.097	1	25
440-TX-10X	440-TX-10-W	T-10	.107	1	25
440-TX-15X	440-TX-15-W	T-15	.128	1	25
440-TX-15-125	-	T-15	.128	1 1/4	32
440-TX-20X	440-TX-20-W	T-20	.151	1	25
440-TX-20-125	-	T-20	.151	1 1/4	32
440-TX-20-2	-	T-20	.151	2	51
440-TX-25X	440-TX-25-W	T-25	.173	1	25
440-TX-27X	440-TX-27-W	T-27	.195	1	25
440-TX-30X	440-TX-30-W	T-30	.216	1	25
440-TX-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.	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.



5/8" Hex Insert Bits

Part Number	Hex Flat Type*	Driver Size		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 pages 51.



7/8" Hex Insert Bits

Part Number	Hex Flat Type*	Driver Size		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 pages 51.



1/4" Hex Power Drive

Part Number	Driver Size		Body Diameter In.	mm	Overall Length 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

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

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1/4" Hex Power Drive – Torxalign®

Part Number	Driver Size		Body Diameter In.	mm	Overall Length In.	mm

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Torx® Bits



10-32 Screw Shank Drive

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



Female Square Service Drive

Part Number	Driver Size	Square Drive In.	Square Drive mm	Body Diameter In.	Body Diameter mm	Overall Length In.	Overall Length 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 1/4	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	.346	1/2	.363	9.2	5 7/8	150



1" Square Drive Adapters with Torx® Insert Bit

Part Number	Driver Size	Overall Length In.	Overall Length mm	Bit Length (B) In.	Bit Length (B) 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

Torx Plus® Bits



1/4" Hex Insert Bits

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



1/4" Hex Insert Bits - Tamper Resistant**

Part Number	Driver Size	Overall Length In.	Overall Length mm
440-10IPRX	10IPR	.107	1 15/16 49
440-15IPRX	15IPR	.128	1 15/16 49
440-20IPRX	20IPR	.151	1 15/16 49
440-25IPRX	25IPR	.173	1 15/16 49
440-27IPRX	27IPR	.195	1 15/16 49
440-30IPRX	30IPR	.216	1 15/16 49
440-40IPRX	40IPR	.260	1 15/16 49

Torx Plus® Bits



1/4" Hex Power Drive - Tamper Resistant

Part Number	Driver Size	Overall Length In.	Overall Length mm
49-10IPR	10IPR	.107	1 15/16 49
49-15IPR	15IPR	.128	1 15/16 49
49-20IPR	20IPR	.151	1 15/16 49
49-25IPR	25IPR	.173	1 15/16 49
49-27IPR	27IPR	.195	1 15/16 49
49-30IPR	30IPR	.216	1 15/16 49
49-40IPR	40IPR	.260	1 15/16 49

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

APEX



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
491-PZDX	1	1 15/16	49	3/16	4.8	1 1/4	32
491-A-PZDX	1	2 3/4	70	3/16	4.8	2	51
491-B-PZDX	1	3 1/2	89	3/16	4.8	2 3/4	70
491-C-PZDX	1	6	152	3/16	4.8	2	51
492-PZDX	2	1 15/16	49	1/4	6.4	1 1/4	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-PZDX	2	6	152	1/4	6.4	2	51
493-PZDX	3	1 15/16	49	5/16	7.9	1	25
493-A-PZDX	3	2 3/4	70	5/16	7.9	1 3/4	44
493-B-PZDX	3	3 1/2	89	5/16	7.9	2 1/4	57
493-C-PZDX	3	6	152	5/16	7.9	5	127



Pozidriv® Bits



1/4" Hex Insert Bits

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

1/4" Hex Insert Bits - Limited Clearance

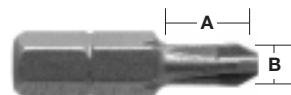
Part Number	Point Size	Overall Length In.	Turned Length (A) In.	Turned OD (B) In.	Turned OD (B) mm
446-1-PZDX	1	1	25.4		

Sel-O-Fit Bits



1/4" Hex Insert Bits

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



1/4" Hex Insert Bits – Limited Clearance

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



5/16" Hex Insert Bits

Part Number	Point Size	Overall Length In.	mm
480-2-SFX	2	1 1/4	32



1/4" Hex Power Drive

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

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.

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

Frearson Bits

1/4" Hex Insert Bits

Part Number	Point Size	Overall Length In.	mm
440-FX	All	1	25
446-FX	All	1	25

For limited clearance

5/16" Hex Insert Bit

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

1/4" Hex Power Drive

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

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 body diameter.

12-24 Screw Shank Drive

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

1/4" Female Square Drive

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

3/8" Female Square Drive

Part Number	Screw Size	Overall Length In.	mm	Body Diameter In.	mm
832-FX	All	2 5/8	67	1/4	6
833-FX	All	2 5/8	67	5/16	8
834-FX	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

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

ACR® is a trademark of the Phillips Screw Co.

Socket Head Sizing Chart

SAE		Socket Head Cap Screws 1960 Series	Flat Head Cap Screws	Button Head Cap Screws	Set Screws	Shoulder Screws	Pressure Plugs	Allenuts	Low Head Cap Screws
Nominal Hex Size, Inches		1936 Series							
.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		Socket Head Cap Screws	Flat Head Cap Screws	Button Head Cap Screws	Set Screws	Shoulder Screws	Allenuts	Low Head Cap Screws
Nominal hex Size, MM								
1.5	M1.6, M1.7, M2	—	—	M3	—	—	—	—
2	M2.3, M2.5, M2.6	M3	M3	M4	—	—	—	—
2.5	M3	M4	M4	M5	—	—	—	—
3	M4	M5	M5	M6	6mm	M3	M4	—
4	M5	M6	M6	M8	8mm	M4	M5	—
5	M6	M8	M8	M10	10mm	M5	M6	—
6	M8	M10	M10	M12, M14	12mm	M6	M8	—
8	M10	M12	M12	M16	16mm	M8	M10	—
10	M12	M14, M16	—	M20	20mm	M10	M12	—
12	M14	M20	—	M24	—	M12	M14	—
14	M16	—	—	—	—	—	M16	—
17	M20	—	—	—	—	M16	M20, M22	—
19	M24	—	—	—	—	—	—	M24

Socket Head Bits

1/4" Hex Insert Bits

Part Number	Hex Size	Overall Length In.	mm
185-000X	.050	1	25
185-00X	1/16	1	25
185-0X	5/64	1	25
185-1X	3/32	1	25
185-9X	7/64	1	25
185-2X	1/8	1	25
185-10X	9/64	1	25
185-3X	5/32	1 5/16	33
185-4X	3/16	1 5/16	33
185-4-4X	3/16	4	102
185-5X	7/32	1 5/16	33
185-6X	1/4	1 5/16	33
185-7X	5/16	1 1/4	32
185-8X	3/8	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	3	76
AM-03-3	3/32	6	152
AM-03-6	3/32	1 15/16	49
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

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
315-3X	5/32	1 5/16	33
315-4X	3/16	1 5/16	33
315-5X	7/32	1 5/16	33
315-6X	1/4	1 5/16	33
315-7X	5/16	1 5/16	33
315-8X	3/8	1 5/16	33

5/16" Hex Insert Bits - Metric

Part Number	Hex Size	Overall Length In.	mm

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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	Size	Hex	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

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

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

Socket Head Bits with Square Drive Adapters, SAE

3/8" Square Drive



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

1/2" Square Drive



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

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 26.
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



Part Number	Adapter Only	Insert Only	Hex Size	Overall Length In.	Length of Insert mm	Bit Length (A) In. mm
SZ-30	SC-720	SZ-30-A	3/8	2 5/8	67	1 9/16 40
SZ-31	SC-720	SZ-31-A	1/2	2 5/8	67	1 9/16 40
SZ-32	SC-720	SZ-32-A	9/16	2 5/8	67	1 9/16 40
SZ-33	RP-720	SZ-33-A	5/8	2 5/8	67	1 9/16 40
SZ-34	RP-720	SZ-34-A	3/4	2 5/8	67	1 9/16 40
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
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

1" Square Drive



Part Number	Adapter Only	Insert Only	Hex Size	Overall Length In.	Length of Insert mm	Bit Length (A) In. mm
SZ-80	RP-820	SZ-31-A	1/2	3 1/16	78	1 9/16 40
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
SZ-87	RP-828	SZ-37-A	3/4	3 1/4	83	2 51 1 1/8 29
SZ-88	SC-820	S				

Square Recess Bits

1/4" Hex Insert Bits



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

1/4" Hex Power Drive



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

1/4" Hex Power Drive – Turned Body



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

Male Square Inserts for Pipe Plugs

1/4" to 1/2" Male Square



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

Note: For pipe plug inserts use SC and RP bit holders found on page 26.

Torq-Set® Bits

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

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

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

1/4" Hex Power Drive



Part Number	Point Size	Overall Length In.	mm
170-0	0	1 1/4	32
273-0	0	1 15/16	49
273B-0	0	2 3/4	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	

Torq-Set® Bits

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
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

7/16" Hex Power Drive



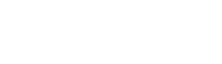
Part Number	Recess Size	Screw Size Tension Head	Screw Size Shear Head	Overall Length In.	mm
TWA-6	6	1/4-28	5/16-24	1 1/4	32
TWA-7	7	5/16-24	3/8-24	1 1/4	32
TWA-8	8	3/8-24	7/16-20	1 1/4	32

7/16" Hex Power Drive



Part Number	Recess Size	Screw Size Tension Head	Screw Size Shear Head	Overall Length In.	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

3/4" Hex Power Drive



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

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

Tri-Wing®

1/4" Hex Insert Bits

Part Number	Recess Size	Screw Size Tension Head	Screw Size Shear Head	Overall Length In.	mm
TWD-0	0	0-80	-	1	25
TWD-1	1	2-56	4-40	1	25
TWD-2	2	4-40	6-32	1	25
TWD-3	3	6-32	8-32	1	25
TWD-4	4	8-32	10-32	1	25
TWD-5	5	10-32	1/4-28	1	25
TWD-6	6	1/4	5/16	1	25
TWD-7	7	5/16	3/8	1	25

1/4" Hex Insert Bits - ACR®

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

7/16" Hex Power Drive

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

3/4" Hex Power Drive

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

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

Hi-Torque® Bits

1/4" Square Drive Insert Bits

Part Number	Recess	Overall Length In.	Body Diameter In.	Blade Thickness In.	Blade Width In.

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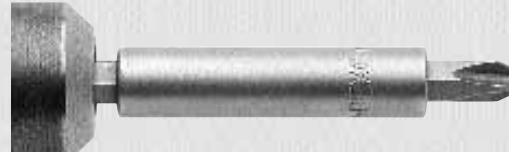


Solutions

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 48)



If the tool you need does not appear in this catalog, give us a call. The odds are, we may have what you need as a non-catalog item. If not, our experienced staff of tooling experts can design and manufacture "specials" to meet the needs of your specific application. Give us a call at 1-800-845-5629 or visit our website www.apex-tools.com.

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 48)



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 49)



Bit Holders

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

Part Number	Overall Length In.	mm
-------------	--------------------	----



Non-magnetic

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" (9.5mm) reduced dia.
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

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

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

APEX



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

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

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

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



Part Number	Overall Length In.	mm
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Bit Holders

1/4" Female Square Drive



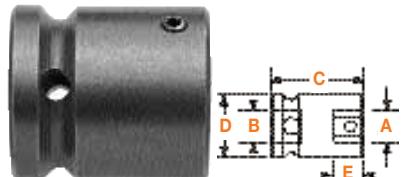
3/8" Female Square Drive



1/2" Female Square Drive



Bit Holders/Adapters with Set Screw or Thru Hole



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

Note: Use SC bit holders with socket head inserts (page 19) and pipe plug inserts (page 21). Can be used with power bits.

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

1/4" Hex Drive Nutsetters for Sheet Metal Screws

6 Point Power Drive, SAE



Part Number	Size In.	Overall Length In.	Nose Diameter In.	Socket
-------------	----------	--------------------	-------------------	--------

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
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
MDB-10	5/16	2 9/16	1/2	Magnetic

MDB-12	3/8	2 9/16	9/16	Magnetic
MDB-14	7/16	2 9/16	5/8	Magnetic
MDC-08	1/4	2 9/16	7/16	3/8" Shank Diameter

MDC-10	5/16	2 9/16	1/2	3/8" Shank Diameter
MDC-12	3/8	2 9/16	9/16	3/8" Shank Diameter

1/4" Hex Drive Nutsetters

6 Point and 6 Point Magnetic, SAE



Part Number	Part Number	Overall Length	Socket Nose Diameter
-------------	-------------	----------------	----------------------

6N-0806-2	M6N-0806-2	3/16	2
6N-0806-3	M6N-0806-3	3/16	3
-	M6N-0806-5	3/16	5

-	M6N-0806-6	3/16	6
6N-0808-2	M6N-0808-2	1/4	2
6N-0808-3	M6N-0808-3	1/4	3

6N-0808-4	M6N-0808-4	1/4	4
6N-0808-5	M6N-0808-5	1/4	5
6N-0808-6	M6N-0808-6	1/4	6

6N-0810-2	M6N-0810-2	5/16	2
6N-0810-3	M6N-0810-3	5/16	3
6N-0810-4	M6N-0810-4	5/16	4

6N-0810-5	M6N-0810-5	5/16	5
6N-0810-6	M6N-0810-6	5/16	6
6N-0811-2	M6N-0811-2	11/32	2

6N-0811-3	M6N-0811-3	11/32	3
6N-0812-2	M6N-0812-2	3/8	2
6N-0812-3	M6N-0812-3	3/8	3

6N-0812-4	M6N-0812-4	3/8	4
6N-0812-6	M6N-0812-6	3/8	6
6N-0814-2	M6N-0814-2	7/16	2

6N-0814-3	M6N-0814-3	7/16	3
6N-0814-4	M6N-0814-4	7/16	4
6N-0814-6	M6N-0814-6	7/16	6

6N-0816-2	M6N-0816-2	1/2	2
6N-0816-3	M6N-0816-3	1/2	3
6N-0818-2	M6N-0818-2	9/16	2

6 Point Power Drive, Metric



Part Number	Size In.	Overall Length In.	Nose Diameter In.	Socket
-------------	----------	--------------------	-------------------	--------

MDA-6mm	6	44.5	9.5	Magnetic

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1/4" Hex Drive Nutsetters

6 Point, Bolt Clearance



Part Number	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 Tool Tip page 32.

7/16" Hex Drive Nutsetters

6 Point



Part Number	Size In.	Overall Length In.	Socket Nose Diameter In.
6N-1410-3	5/16	3	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-1418-6	9/16	6	7/8
6N-1420-3	5/8	3	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	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

Hand Drivers

Drivers with Self-Contained Insert Bits



Part No.	Female Hex Size	Overall Length In.	Blade Projection In.
M-15-SC	1/4	8 1/2	216 4 3/8 111
M-15-SC-A	1/4	8 1/2	216 4 3/8 111

Phillips #1, #2, #3; Slotted 4F-5R, 10F-12R; hollow handle.
Without bits; hollow handle.

Replaceable Bit Drivers



Part No.	Female Hex Size	Overall Length In.	Blade Projection In.
1510-P	1/4	2 3/4	70 7/8 22
1500-P	1/4	7 1/2	191 3 9/32 83

Replaceable Bit Drivers – Magnetic



Part No.	Female Hex Size	Overall Length In.	Blade Projection In.
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



24 Bit Kit

Industrial 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

Awls

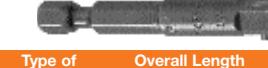


Part Number	Overall Length In.	Shank Diameter In.
AW-95	7 7/16	.307 7.8
AW-95-L	8	.307 7.8
AW-95-LL	8 7/8	.307 7.8

Use awls to line up hole and scratch mark surfaces.

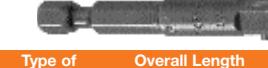
Hex Extensions

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-262-4	5/16	Pin	4	102
EX-262-B-4	5/16	Ball	4	102
EX-262-6	5/16	Pin	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-251-6	7/16	Pin	6	152
EX-251-8	7/16	Pin	8	203
EX-251-10	7/16	Pin	10	254

Male Hex Drive with 3/8" Male Square



Part Number	Hex Drive In.	Type of Lock	Overall Length In.	mm
EX-250	1/4	Pin	1 3/8	35
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-371-2	7/16	Pin	2	51
EX-371-2 3/4	7/16	Pin		

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-512-B-4	5/16	Ball	4	102
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-B-12	7/16	Ball	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-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

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-621-6	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-758-9	5/8	7/32 Drill Hole	9	229

Extensions

Threaded Screw Shank



Part Number	Male Square In.	Male Thread In.	Overall Length mm	Body Diameter 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-372	3/8	1/4-20	1 3/4	45	1/2 13

1/4" Male Hex Universal Wrenches

SAE 6 Point, Standard & Tension Type – Extension



Standard Type Tension Type

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	-	1/4	9	3/4	5/8	3/8	3/8
KC-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-26-6	KS-26-6	5/16	6	3/4	5/8	7/16	3/8
KC-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
-	KS-100-6	5/16	6	3/4	5/8	7/16	5/16
KC-27-3	-	11/32	3	3/4	5/8	1/2	3/8
KC-27-6	-	11/32	6	3/4	5/8	1/2	3/8
KC-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
-	KS-28-12	3/8	12	13/16	5/8	9/16	7/16
-	KS-102-6	3/8	6	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
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	-	1/2	9	7/8	11/16	11/16	1/2
-	KS-104-6	1/2	6	1	3/4	3/4	9/16
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

Metric 6 Point, Standard & 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
KC-5-7m-4	-	7	102	19.1	15.9	10.3	9.5
KC-5-7m-6	KS-5-7m-6	7	152	19.1	15.9	10.3	9.5
-	KS-5-7m-9	7	229	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
-							



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 39.)

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 39.)

Does Apex offer 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.)



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 28.)

What is the advantage of surface drive sockets?

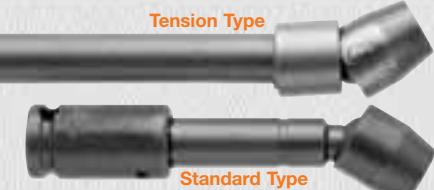
Use surface drive sockets if tools are still running when they engage the fasteners (such as on this multi-spindle machine). They're easier to engage and will result in less tool wear.



If the tool you need does not appear in this catalog, give us a call. The odds are, we may have what you need as a non-catalog item. If not, our experienced staff of tooling experts can design and manufacture "specials" to meet the needs of your specific application. Give us a call at 1-800-845-5629 or visit our website www.apex-tools.com.

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.



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.



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 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.)



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 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.

(See pages 68-76 for more information)



In this section...



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 Impact 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 Impact 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 Impact 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

APEX

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	-	13/32	1	5/8	5/8	1/4
1114	1114-D	7/16	1	5/8	5/8	9/32
1116	1116-D	1/2	1	11/16	11/16	11/32
1118	-	9/16	1	13/16	13/16	7/16
1120	-	5/8	1	7/8	7/8	7/16

* Parts have a harder heat treat.

Magnetic, Standard Length, 6 Point



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)
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	
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	

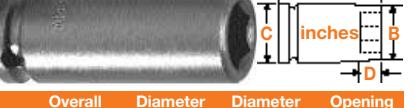
* Parts have a harder heat treat; MX-1108-E has no lead-in chamfer.

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	-	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	-	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	-	7/16	1 3/4	5/8	5/8	9/32
1216	1216-D	1/2	1 3/4	11/16	11/16	11/32
1218	-	9/16	1 3/4	13/16	13/16	7/16

Magnetic, Long & Extra Long Length, 6 Point



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)
-	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
-	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
-	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 33.

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	-	5/16	3	1/2	1/2	3/16
1311	1311-D	11/32	3	1/2	1/2	3/16

1/4" Sq. Dr. Sockets For SAE Sheet Metal Screws

6 Point & 6 Point Magnetic, For Predrilled Holes*

Part Number	Part Number	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
-	M1E06	3/16	7/8	5/16	1/2	3/32
-	M1E07	7/32	7/8	3/8	1/2	5/32
1E08	M1E08	1/4	7/8	3/8	1/2	5/32
1E10	M1E10	5/16	7/8	1/2	1/2	3/16
-	M1E11	11/32	1	1/2	1/2	3/16
-	M1E12	3/8	1	5/8	5/8	1/4
-	M1E14	7/16	1	11/16	11/16	9/32
-	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.

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

Part Number	Part Number	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" Sq. Dr. Sockets For SAE Square Nuts

Single Square & Double Square

Part Number	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
1612	1612-D	3/8	1	3/4	3/4	1/4



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	-	15	25.4	22.2	22.2	11.1
16mm11	-	16	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)
-	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
-	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 Tool Tip on page 33.

** No ring groove.

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°.

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

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					

1/4" Sq. Dr. Sockets For Metric Sheet Metal Screws

6 Point and
6 Point
Magnetic

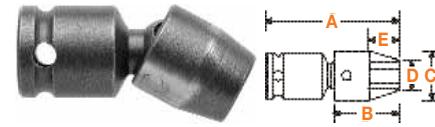


Part Number	Part Number	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
3.5mmE1	-	3.5	22.2	6.4	12.7	2.4
4mmE1	M-4mmE1	4	22.2	6.4	12.7	2.4
-	M-5mmE1	5	22.2	8.7	12.7	3.9
5.5mmE1	M-5.5mmE1	5.5	22.2	9.5	12.7	3.9
6mmE1	M-6mmE1	6	22.2	9.5	12.7	3.9
7mmE1	M-7mmE1	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" Sq. Dr. Universal Wrenches, Metric

6 Point



Part Number	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

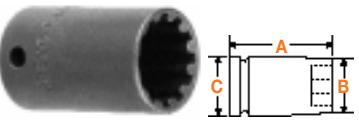
Universal wrenches must not be used with impact drivers.
Maximum operating angle is 30°.

If the tool you need does not appear in this catalog, give us a call. The odds are, we may have what you need as a non-catalog item. If not, our experienced staff of tooling experts can design and manufacture "specials" to meet the needs of your specific application. Give us a call at 1-800-845-5629 or visit our website www.apex-tools.com.

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

1/4" Sq. Dr. 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)
CMS-1507	7	7/32	2	51	21/64
CMS-1408	8	1/4	7/8	22	3/8
CMS-1508	8	1/4	2	51	3/8
CMS-1409	9	9/32	7/8	22	7/16
CMS-1509	9	9/32	2	51	7/16
CMS-1410	10	5/16	7/8	22	29/64
CMS-1510	10	5/16	2	51	29/64
CMS-1412	12	3/8	7/8	22	17/32
CMS-1414	14	7/16	1	25	39/64

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

1/4" Sq. Dr. Torx® Sockets

For External
Torx Screws



Part Number	Driver Size	Overall Length (A)	Nose End Diameter (B)	Drive End Diameter (C)
TX-1104	E-4	1	25.4	1/4
TX-1105	E-5	1	25.4	1/4
TX-1106	E-6	1	25.4	5/16
TX-1108	E-8	1	25.4	3/8
TX-1110	E-10	1	25.4	9/16
TX-1112	E-12	1	25.4	5/8

For External
Torx Screws,
Thin Wall



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

For Torx Nuts



Part Number	Driver Size	Overall Length (A)	Nose End Diameter (B)	Drive End Diameter (C)
TX-1E05	E-5	7/8	22.2	3/8
TX-1E06	E-6	7/8	22.2	7/16
TX-1E08	E-8	7/8	22.2	1/2

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" Sq. Dr. Extensions

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



Part Number	Male Square In.	Type of Lock	Overall Length 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" Sq. Dr. Adapters

1/4" to 3/8" Male Square



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

1/4" Sq. Dr. Universal Adapters



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

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

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

3/8" Square Drive Sockets, SAE

6 Point & Double Hex, Short and Standard Length



6 Point & Double Hex, Long and Extra Long Length



Part Number	Part Number	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	-	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	-	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	-	7/16	1 1/2	21/32	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	-	1/2	1 1/2	11/16	11/16	11/32
3117	-	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	-	9/16	1 1/2	7/8	7/8	7/16
SW-343	-	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
3022	3022-D	11/16	1	1	1	7/16
3122	-	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
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.

6 Point & Double Hex, Thin Wall, Standard Length



Part Number	Part Number	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
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
3424	3424-D	3/4	1 1/2	1	1	15/32
3426	-	13/16	1 1/2	1 1/8	1 1/8	17/32
3428	-	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	-	1	1 1/2	1 3/8	1 3/8	5/8
3434	-	1 1/16	1 1/2	1 1/2	1 1/2	11/16

*No ring groove.

6 Point & Double Hex, Thin Wall, Long Length



Part Number	Part Number	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
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
3524	3524-D	3/4	2	1	1	15/32
3530	-	15/16	2	1 5/16	1 5/16	5/8
3532	-	1	2	1 3/8	1 3/8	5/8
3534	-	1 1/16	2	1 1/2	1 1/2	11/16

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

3/8" Square Drive Sockets, SAE

Magnetic, Short and Standard Length



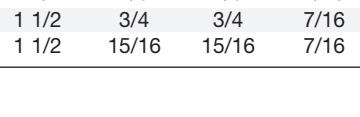
Part Number	Fixed Magnet	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
M-3108		1/4	1 1/4	7/16	3/4	5/32
M-3109		9/32	1 1/4	7/16	3/4	3/16
M-3110		5/16	1 1/4	1/2	3/4	3/16
M-3012		3/8	7/8	19/32	3/4	3/16
M-3112		3/8	1 1/4	19/32	3/4	1/4
M-3014		7/16	7/8	11/16	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-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-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

Magnetic, Thin Wall, Long Length



Part No.	Part No.	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

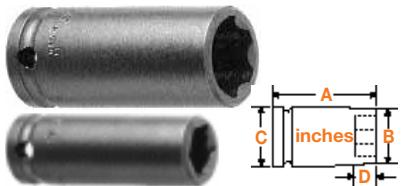
Surface Drive & Fast Lead, Short and Standard Length



Part No.	Surface Drive	Part Number	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-3010	-	5/16	7/8	1/2	3/4	3/16	

3/8" Sq. Dr. Sockets, SAE

Surface Drive & Fast Lead, Long and Extra Long Length



Part No.	Part Number	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
-	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
-	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-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
-	FL-3326	13/16	3 1/2	1 1/4	1 1/4	17/32

Surface Drive, Thin Wall, Long Length



Part No.	Part Number	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

*No ring groove.

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

6 Point & 6 Point Magnetic, For Predrilled Holes*



Part No.	Part Number	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
-	M3E08	1/4	1 1/4	7/16	3/4	5/32
3E10	M3E10	5/16	1 1/4	1/2	3/4	3/16
3E11	-	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
-	M3E18	9/16	1 1/2	7/8	7/8	7/16

6 Point & 6 Point Magnetic, For Self-Tapping Screws*

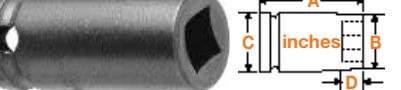


Part No.	Part Number	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
-	M3P06	3/16	1 1/4	5/16	3/4	3/32
-	M3P07	7/32	1 1/4	3/8	3/4	5/32
-	M3P08	1/4	1 1/4	7/16	3/4	5/32
3P10	M3P10	5/16	1 1/4	1/2	3/4	3/16
3P12	M3P12	3/8	1 1/4	5/8	3/4	1/4
3P14	M3P14	7/16	1 1/4	11/16	3/4	9/32
3P16	M3P16	1/2	1 1/2	13/16	13/16	11/32
-	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" Sq. Dr. Sockets For SAE Square Nuts

Single Square & Double Square



Part No.	Part Number	Hex 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	-	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
3624	-	3/4	1 1/2	1 3/8	1 3/8	15/32

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

3/8" Sq. Dr. 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" Sq. Dr. Universal Wrenches, SAE

6 Point & 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-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-305	-	11/16	2 5/16	1 1/4	1	1	11/16
SA-306	-	3/4	2 5/16	1 1/4	1 1/8	1 1/8	11/16



3/8" Square Drive Sockets, Metric

**6 Point & 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
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	-	17	25.4	25.4	25.4	11.1
17mm13	17mm13-D	17	38.1	25.4	25.4	11.1
18mm03	-	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
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.



**6 Point & Double Hex,
Thin Wall,
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)
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	-	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	-	18	38.1	23.8	23.8	11.1
19mm43	19mm43-D	19	38.1	25.4	25.4	11.9

**6 Point & Double Hex,
Long and
Extra Long
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)
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
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
21mm23	-	21	50.8	31.7	31.7	13.5
22mm23	-	22	50.8	31.7	31.7	14.3

*No ring groove.

**Magnetic,
Short & 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

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

3/8" 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-8mm43	8	31.7	12.7	19.1	4.8

3/8" Sq. Dr. Socket Sets, Metric

6 Point

APS312M	12 piece, standard length: 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm
APS312LM	12 piece, long length: 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm

Universal Wrenches 3/8" Sq. Dr., Metric

6 Point

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
SA-36-10m	10	48	20.6	19.1	15.1	9.5
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" Sq. Dr. Universal Wrench Set, Metric

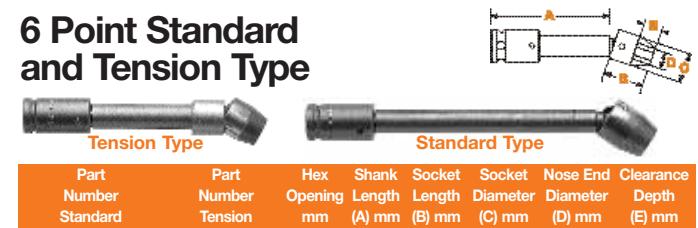
6 Point

APU37M	7 piece, standard length: 10mm, 12mm, 13mm, 14mm, 15mm, 17mm, 18mm
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BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

3/8" Sq. Dr. Universal Wrenches, Metric – Extension

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
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
-	KD-6-10m-12	10	305	20.6	19.1	15.1	9.5
-	KD-7-11m-6	11	152	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-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-6	KD-7-14m-6	14	152	27.0	22.2	19.1	13.5
-	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
-	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" Sq. Dr. Socket Head Bits, Metric

Complete, Adapter Only, Insert Only



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

See page 19 for more 3/8" drive complete socket head bits.

3/8" Sq. Dr. Sockets For Spline Fasteners

Standard and Long Length



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

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

3/8" Sq. Dr. Torx® Sockets

For External Torx Screws



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

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

For Torx Nuts



Part Number	Driver Size	Overall Length (A) In. mm	Nose End Diameter (B) In. mm	Drive End Diameter (C) In. mm
TX-3E08	E-8	1 1/4	32	5/8
TX-3E10	E-10	1 1/4	32	5/8

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.

3/8" Sq. Dr. 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" Sq. Dr. 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" Sq. Dr. Universal Adapters



Male Square to Female Square

Part Number	Male Sq. In.	Female Sq. In.	Type of Lock	Overall Length In.	mm	Largest Diameter 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

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

3/8" Sq. Dr. Universal Adapters – Extension



(Standard Type Shown)

Male Square to Female Square

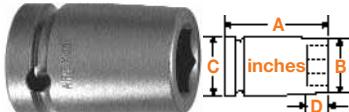
Standard	Part Number	Male Square In.	Female Square In.	Type of Lock	Largest Diameter In.	mm
KAM-37-3	KDM-37-3	3/8	3/8	Pin	3/4	19
-	KDM-37-6	3/8	3/8	Pin	3/4	19
-	KDM-37-B-3	3/8	3/8	Ball	3/4	19
KAM-38-6	KDM-38-6	3/8	3/8	Pin	7/8	22

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

1/2" Square Drive Sockets, SAE

APEX

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	-	1/4	1 1/2	7/16	15/16	5/32
5110	5110-D	5/16	1 1/2	1/2	15/16	3/16
5112	5112-D	3/8	1 1/2	5/8	15/16	1/4
5114	5114-D	7/16	1 1/2	11/16	15/16	9/32
5116	5116-D	1/2	1 1/2	13/16	15/16	11/32
SH-335	-	1/2	1 1/2	45/64	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	-	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
5122	5122-D	11/16	1 1/2	1 1/8	1 1/8	7/16
SH-339	-	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
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
5130	5130-D	15/16	1 1/2	1 3/8	1 3/8	5/8
5131	-	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	-	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	-	1 7/16	2	2	2	15/16
5148	5148-D	1 1/2	2	2 1/8	2 1/8	1
5152	5152-D	1 5/8	2	2 3/8	2 3/8	1 1/8
5154	-	1 11/16	2	2 3/8	2 3/8	1 1/8
5156	-	1 3/4	2	2 1/2	2 1/2	1 1/8

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)
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
*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
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	-	7/8	1 1/2	1 3/16	1 1/4	9/16
HE-530	-	15/16	1 1/2	1 5/16	1 5/16	5/8

* Extra thin wall

** No ring groove

Continued on next column.

6 Point and Double Hex, Thin Wall, Standard Length



Continued from previous column.

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)
*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	-	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	-	1 5/16	1 3/4	1 25/32	1 7/8	13/16

* Extra thin wall

** No ring groove

6 Point and Double Hex, Long & 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	-	3/8	2 1/4	5/8	15/16	1/4
5312	-	3/8	3 1/4	5/8	15/16	1/4
5214	-	7/16	2 1/4	11/16	15/16	9/32
5314	-	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
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	-	5/8	2 1/4	1	1	7/16
5320	-	5/8	3 1/4	1	1	7/16
5222	-	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	-	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	-	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	-	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	-	1	2 1/4	1 1/2	1 1/2	5/8
5332	-	1	3 1/2	1 1/2	1 1/2	5/8
5234	-	1 1/16	2 3/8	1 1/2	1 1/2	11/16
5334	-	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	-	1 3/16	2 3/8	1 3/4	1 3/4	3/4
5338	-	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
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

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

1/2" Square Drive Sockets, SAE

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

Part Number	Part Number	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

*No ring groove.



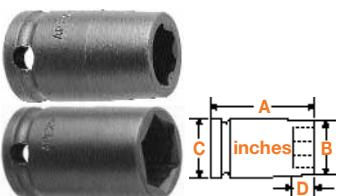
**Magnetic, Long Length
& Extra Long Length**

Part Number	Part No.	Magnetic Bolt Clearance	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
-	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-5514-D	MB-5216	1/2	2 1/4	13/16	15/16	11/32	
M-5216	-	1/2	3 1/4	13/16	15/16	11/32	
M-5316	-	9/16	2 1/4	7/8	15/16	7/16	
M-5218	-	9/16	2 1/4	7/8	15/16	7/16	
M-5518*	-	9/16	3 1/4	13/16	15/16	7/16	
M-5518-D	-	5/8	2 1/4	1	1	7/16	
MB-5220	-	5/8	2 1/4	1	1	7/16	

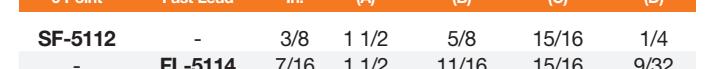
*Thin Wall



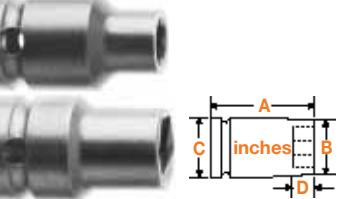
**Surface Drive &
Fast Lead,
Standard Length**



Part Number	Part Number	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-5112	-	3/8	1 1/2	5/8	15/16	1/4
-	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	-	9/16	1 1/2	27/32	15/16	7/16
SF-5120	FL-5120	5/8	1 1/2	1	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	-	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



**Magnetic,
Thin Wall,
Standard Length**



Part Number	Part Number	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
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	

Part Number	Part Number	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	-	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

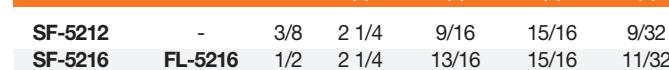
BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

1/2" Sq. Dr. Sockets, SAE

**Surface Drive &
Fast Lead,
Long and Extra
Long Length**



Part Number	Part Number	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-5216	FL-5216	1/2	2 1/4	13/16	15/16	11/32
M-5216	FL-5218	9/16	2 1/4	7/8	15/16	7/16
M-5218	-	9/16	3 1/4	13/16	15/16	7/16
M-5218*	-	9/16	3 1/4	13/16	15/16	7/16
M-5220	-	5/8	2 1/4	1	1	7/16
M-5220*	-	5/8	2 1/4	1	1	7/16



**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					

1/2" Sq. Dr. Sockets For SAE Square Nuts

Single Square &
Double Square,
Standard Length



Part Number	Part Number	Square Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
6 Point	Double Square					
5609	-	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
5620	5620-D	5/8	1 1/2	1 1/4	1 1/4	7/16
5622	-	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	-	13/16	1 1/2	1 1/2	1 1/2	17/32
5628	-	7/8	1 1/2	1 5/8	1 5/8	5/8
5632	-	1	1 5/8	1 3/4	1 3/4	5/8
5634	-	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

Single Square &
Double Square,
Thin Wall,
Standard Length



Part Number	Part Number	Square Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
Square	Double Square					
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
5918	5918-D	9/16	1 1/2	1	1	7/16
5920	-	5/8	1 1/2	1 3/32	1 1/8	7/16

Single Square &
Double Square,
Long & Extra
Long Length



Part Number	Part Number	Square Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
Square	Double Square					
5812	-	3/8	3 1/4	3/4	15/16	1/4
5716	-	1/2	2 1/4	1	1	11/32
-	5816-D	1/2	3 1/4	1	1	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
-	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-D	1 1/8	3 1/2	2	2	3/4

1/2" Sq. Dr. Socket Sets, SAE

6 Point

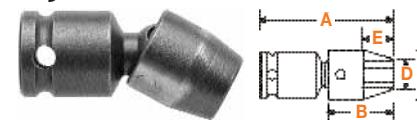
APS58XL

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" Sq. Dr., SAE

6 Point &
Double Hex



Part Number	Part Number	Hex Opening In.	Overall Length (A) In.	Socket Length (B) In.	Socket Diameter (C) In.	Nose End Diameter (D) In.	Clearance Depth (E) In.
6 Point	12 Point						

SA-120	SA-120-D	5/16	1 53/64	3/4	3/4	7/16	5/16
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	-	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°.



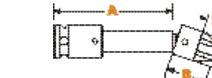
6 Point

APU56

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

Universal Wrenches 1/2" Sq. Dr., SAE – Extension

6 Point, Standard
and Tension Type



Tension Type

Standard Type

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.
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KH-43-6	**KN-43-6**	3/8	6	13/16	5/8	17/32	7/16

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1/2" Square Drive Sockets, Metric

6 Point & Double Hex, Standard Length



6 Point & Double Hex, Long Length



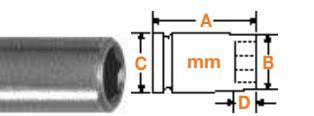
Part Number	Part Number	Hex Opening mm.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
6 Point	Double Hex					
10mm15	10mm15-D	10	38.1	16.7	23.8	6.4
11mm15	11mm15-D	11	38.1	17.5	23.8	7.2
12mm15	12mm15-D	12	38.1	19.1	23.8	7.2
13mm15	13mm15-D	13	38.1	22.2	23.8	8.7
14mm15	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	-	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	-	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	-	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 & Double Hex, Thin Wall, Standard Length



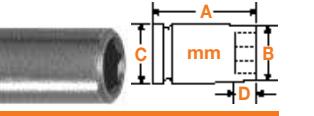
Part Number	Part Number	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
6 Point	Double Hex					
10mm45	10mm45-D	10	38.1	15.9	23.8	6.4
12mm45	12mm45-D	12	38.1	17.5	23.8	7.2
13mm45	13mm45-D	13	38.1	18.7	23.8	8.7
14mm45	14mm45-D	14	38.1	20.6	23.8	11.1
15mm45	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	-	19	38.1	26.3	26.3	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

6 Point & Double Hex, Extra Long Length



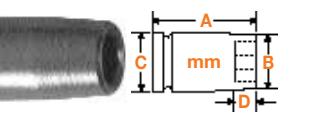
Part Number	Part Number	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
6 Point	Double Hex					
10mm25	10mm25-D	10	57.1	16.7	23.8	6.4
11mm25	-	11	57.1	17.5	23.8	7.2
12mm25	12mm25-D	12	57.1	19.1	23.8	7.2
13mm25	13mm25-D	13	57.1	22.2	23.8	8.7
14mm25	-	14	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	11.9
19mm25	-	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
30mm25	30mm25-D	30	60.3	44.4	44.4	19.1
32mm25	-	32	63.5	44.4	44.4	20.6

6 Point & Double Hex, Magnetic, Standard Length



Part Number	Part Number	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
6 Point	Double Hex					
10mm35	10mm35-D	10	82.5	16.7	23.8	6.4
11mm35	-	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	-	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
24mm35	24mm35-D	24	88.9	34.9	34.9	15.9
25mm35	-	25	88.9	38.1	38.1	15.9

6 Point & Double Hex, Magnetic, Extra Long Length



1/2" Square Drive Sockets, Metric

6 Point & Double Hex, Thin Wall, Extra Long Length

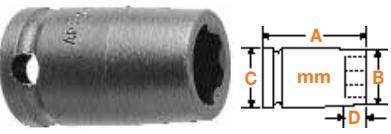


Part Number	Part Number	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
6 Point	Double Hex					

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1/2" Square Drive Sockets, Metric

Surface Drive,
Standard Length



Surface Drive,
Extra Long
Length

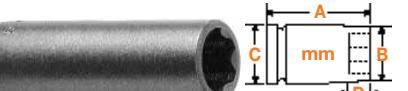


Part Number	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-10mm15	10	38.1	16.7	23.8	6.4
SF-11mm15	11	38.1	17.5	23.8	7.2
SF-12mm15	12	38.1	19.1	23.8	7.2
SF-13mm15	13	38.1	22.2	23.8	8.7
SF-14mm15	14	38.1	22.2	23.8	11.1
SF-15mm15	15	38.1	23.8	23.8	11.1
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

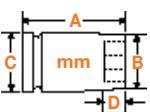


Surface Drive,
Thin Wall,
Extra Long
Length



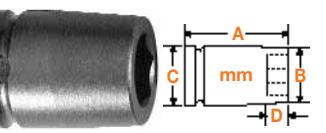
Part Number	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
SF-10mm45	10	38.1	15.9	23.8	6.4
SF-11mm45	11	38.1	16.7	23.8	7.2
SF-12mm45	12	38.1	17.5	23.8	7.2
SF-13mm45	13	38.1	18.7	23.8	8.7
SF-14mm45	14	38.1	20.6	23.8	11.1
SF-15mm45	15	38.1	22.2	23.8	11.1
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-20mm45	20	38.1	28.6	28.6	13.5
SF-21mm45	21	38.1	28.6	28.6	11.9

Surface Drive,
Long Length



1/2" Sq. Dr. Sockets For Metric Sheet Metal Screws

6 Point &
6 Point Magnetic,
For Regular Screws



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

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

1/2" Sq. Dr. Socket Sets, Metric

6 Point



APS511M 11 piece, standard length:
10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm,
18mm, 19mm, 21mm

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

6 Point



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
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
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-510-24m	24	73	34.9	31.8	34.9	16.3

1/2" Sq. Dr. Universal Wrench Set, Metric

6 Point



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

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

1/2" Sq. Dr. Universal Wrenches, Metric – Extension

6 Point, Standard
and Tension Type



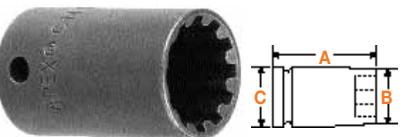
Tension Type

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
-	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
KH-7-13m-9	KN-7-13m-9	13	229	25.4	22.2	17.5	11.9
-	KN-7-13m-12	13	305	25.4	22.2	17.5	11.9
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
-	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-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						

1/2" Sq. Dr. Sockets For Spline Fasteners

Standard & 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-5422	22	11/16	1 1/2	38	31/32	25	31/32	25
CMS-5426	26	13/16	1 1/2	38	1 1/8	29	1 1/8	29
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" Sq. Dr. 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

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

1/2" Sq. Dr. Extensions

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



Part Number	Male Square In.	Type of Lock	Overall Length
	In.		mm
EX-504	1/2	Pin	1 23/32
EX-504-B	1/2	Ball	1 23/32
EX-508-2	1/2	Pin	2
EX-508-B-2	1/2	Ball	2
EX-508-3	1/2	Pin	3
EX-508-B-3	1/2	Ball	3
EX-508-4	1/2	Pin	4
EX-508-B-4	1/2	Ball	4
EX-508-5	1/2	Pin	5
EX-508-B-5	1/2	Ball	5
EX-508-6	1/2	Pin	6
EX-508-B-6	1/2	Ball	6
EX-508-8	1/2	Pin	8
EX-508-B-8	1/2	Ball	8
EX-508-9	1/2	Pin	9
EX-508-B-9	1/2	Ball	9
EX-508-10	1/2	Pin	10
EX-508-B-10	1/2	Ball	10
EX-508-12	1/2	Pin	12
EX-508-B-12	1/2	Ball	12
EX-508-15	1/2	Pin	15
EX-508-B-15	1/2	Ball	15
EX-508-16	1/2	Pin	16
EX-508-B-16	1/2	Ball	16
EX-508-18	1/2	Pin	18
EX-508-B-18	1/2	Ball	18

1/2" Sq. Dr. Adapters

5/8" to 3/4" Male Square



Part Number	Male Square In.	Female Square In.	Type of Lock	Overall Length
	In.			mm
EX-623	5/8	1/2	Pin	1 1/2
EX-623-B	5/8	1/2	Ball	1 1/2
EX-626-3	5/8	1/2	Pin	3
EX-751	3/4	1/2	7/32 drill hole	1 13/16
EX-751-B	3/4	1/2	Ball	1 13/16

APEX:

1/2" Sq. Dr. Universal Adapters



3/8" to 3/4"
Male Square

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

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

1/2" Sq. Dr. Adapters

1/4" to 5/8" 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
EX-260-B	1/4	1/2	Ball	1 1/2
EX-258-B-2	1/4	1/2	Ball	2
EX-258-4	1/4	1/2	Pin	4
EX-375	3/8	1/2	Pin	1 1/2
EX-375-B	3/8	1/2	Ball	1 1/2
EX-377-2	3/8	1/2	Pin	2
EX-377-B-2	3/8	1/2	Ball	2
EX-377-3	3/8	1/2	Pin	3
EX-377-B-3	3/8	1/2	Ball	3
EX-377-4	3/8	1/2	Pin	4
EX-377-B-4	3/8	1/2		

5/8" Square Drive Sockets, SAE

6 Point & 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)
6118	-	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	-	11/16	1 7/8	1 1/8	1 1/4	7/16
6124	-	3/4	1 7/8	1 1/4	1 1/4	15/32
6128	-	7/8	1 7/8	1 3/8	1 3/8	9/16
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
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 & Double Hex, Thin Wall, Standard Length



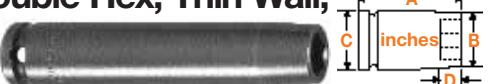
Part Number 6 Point	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
6426	13/16	1 7/8	1 1/8	1 1/4	17/32
6430	15/16	2	1 5/16	1 5/16	5/8

6 Point & Double Hex, Extra Long Length



Part Number 6 Point	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	11/16	3 1/2	1 1/8	1 1/4	7/16
6324	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
6330	15/16	3 1/2	1 1/2	1 1/2	5/8
6336	1 1/8	3 1/2	1 5/8	1 5/8	3/4
6340	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	1 3/8	3 1/2	2	2	13/16
6348	1 1/2	3 1/2	2 1/8	2 1/8	1

6 Point & 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
6524	6524-D	3/4	3 1/2	1 1/16	1 1/4	15/32
-	6528-D	7/8	3 1/2	1 3/16	1 1/4	9/16

Surface Drive & 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-6118	-	9/16	1 7/8	7/8	1 1/4	7/16
SF-6120	-	5/8	1 7/8	1	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-6128	FL-6128	7/8	1 7/8	1 3/8	1 3/8	9/16

*Thin Wall

Surface Drive & Fast Lead, Thin Wall, 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-6320	-	5/8	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	-	13/16	3 1/2	1 1/4	1 1/4	17/32
SF-6328	-	7/8	3 1/2	1 3/8	1 3/8	9/16
SF-6330	-	15/16	3 1/2	1 1/2	1 1/2	5/8

*Thin Wall

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

5/8" Sq. Dr. Sockets, Metric

6 Point & 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)
-	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
-	SF-19mm16	19	48	31.8	31.8	11.9
21mm16	SF-21mm16	21	48	31.8	31.8	13.5
-	SF-22mm16	22	48	34.9	34.9	14.3
24mm16	SF-24mm16	24	51	38.1	38.1	15.9

6 Point & 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)
-	SF-15mm36	15	89	23.8	31.8	11.1
17mm36	-	17	89	25.4	31.8	11.1
-	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
-	SF-22mm36	22	89	34.9	34.9	14.3
24mm36	SF-24mm36	24	89	38.1	38.1	15.9

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

5/8" Sq. Dr. Extensions

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

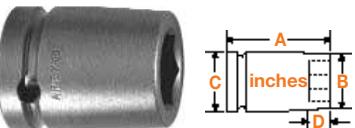


Part Number	Male Square In.	Type of Lock	Overall Length mm

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3/4" Square Drive Sockets, SAE

6 Point & Double Hex, Standard Length

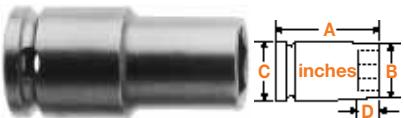


6 Point & Double Hex, Extra Long Length



Part Number	Part Number	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
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
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
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	-	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
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	-	1 3/4	2 1/4	2 5/8	2 1/8	1 1/8
7158	-	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
7164	7164-D	2	2 3/8	2 7/8	2 1/8	1 3/8
7168	-	2 1/8	2 3/8	3 1/8	2 1/8	1 3/8
7170	7170-D	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
7176	-	2 3/8	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

6 Point & Double Hex, Thin Wall, Standard Length



Part Number	Part Number	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	-	1	2	1 7/16	1 7/16	5/8
7434	-	1 1/16	2	1 1/2	1 1/2	11/16
7436	-	1 1/8	2 1/8	1 5/8	1 5/8	3/4
7438	-	1 3/16	2 1/8	1 5/8	1 5/8	3/4
7442	7442-D	1 5/16	2 1/8	1 7/8	1 3/4	13/16
7446	-	1 7/16	2 1/4	2	1 3/4	15/16
7448	-	1 1/2	2 1/4	2 1/8	2 1/8	1
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

6 Point & Double Hex, Extra Long Length



Part Number	Part Number	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
7324SKT	7324-D	3/4	4	1 1/4	1 1/2	15/32
7328	-	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	7332-D	1	4	1 1/2	1 1/2	5/8
7334	-	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
7340	-	1 1/4	4	1 7/8	1 3/4	13/16
7342	-	1 5/16	4	2	1 3/4	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
7352	-	1 5/8	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

3/4" Square Drive Sockets For SAE Square Nuts

Single Square & Double Square, Standard Length



Part No.	Square Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
7624	3/4	2	1 1/2	1 1/2	15/32
7628	7/8	2	1 3/4	1 3/4	5/8
7630	15/16	2 1/8	1 7/8	1 3/4	5/8
7632	1	2 1/8	2	1 3/4	5/8
7636	1 1/8	2 1/8	2 1/8	2 1/8	3/4

3/4" Square Drive Universal Wrenches, SAE



6 Point

Part Number	Hex Opening In.	Overall Length (A)	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-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°.

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

3/4" Sq. Dr. 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
24mm17	24	51	38.1	38.1	15.9
24mm47*	24	51	34.9	34.9	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
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
36mm17	36	57	57.1	54.0	23.8
37mm17	37	57	57.1	54.0	23.8
41mm17	41	57	63.5	54.0	31.8
46mm17	46	57	69.9	54.0	31.8

*Thin Wall

**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
22mm57*	22	102	34.9	34.9	14.3
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
27mm37	27	102	41.3	41.3	17.5
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
36mm37	36	101.6	54.0	54.0	23.8
41mm37	41	101.6	63.5	54.0	28.6

*Thin Wall

3/4" Sq. Dr. 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-755-12	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" Sq. Dr. 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" Sq. Dr. Universal Adapters



3/4" Male Square

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

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

1" Square Drive Sockets, SAE



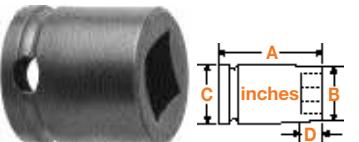
**6 Point &
Double Hex,
Standard Length**

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-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-D	7/8	2 1/8	1 1/2	2	13/16
-	8130-D	15/16	2 1/8	1 1/2	2	13/16
-	8132-D	1	2 1/8	1 5/8	2	13/16
-	8134-D	1 1/16	2 1/8	1 11/16	2	13/16
8138	8138-D	1 3/16	2 1/8	2 1/8	2	13/16
-	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-D	1 3/8	2 1/8	2 1/8	2 1/8	13/16
-	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" Sq. Dr. Sockets, SAE

Single Square & Double Square, Standard Length

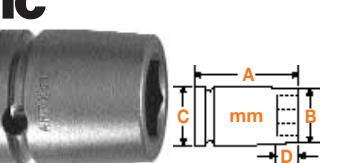
Part No.	Part No.	Square Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
8624	-	3/4	2 1/8	1 5/8	2	13/16
8632	-	1	2 1/8	2 1/8	2 1/8	13/16
8634	-	1 1/16	2 1/8	2 1/8	2 1/8	13/16
8636	-	1 1/8	2 1/4	2 1/4	2 1/8	15/16
8638	8638-D	1 3/16	2 1/4	2 1/4	2 1/8	15/16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



1" Sq. Dr. Sockets, Metric

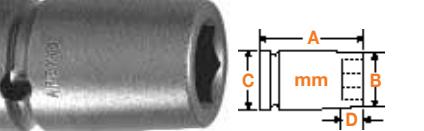
6 Point, Standard Length

Part Number	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
24mm18	24	54	38.1	50.8	20.6
27mm18	27	54	42.9	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
34mm18	34	54	54.0	54.0	20.6
36mm18	36	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
50mm18	50	66	76.2	66.7	30.2



6 Point, Long Length

Part Number	Hex Opening mm	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
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
33mm38	33	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
46mm38	46	108	69.8	66.7	31.8
50mm38	50	111	73.0	66.7	34.9



1" Sq. Dr. 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



BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

1" Sq. Dr. Adapters

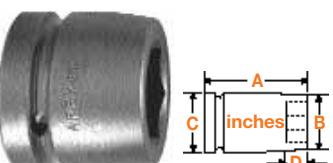
3/4" to 1 1/2"
Male Square

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-756-6	3/4	1	7/32 Drill Hole	6	152
EX-756-8	3/4	1	7/32 Drill Hole	8	203
EX-1101	1 1/2	1	3/8 Drill Hole	3 9/16	91



APEX:

1 1/2" Sq. Dr. Sockets, SAE



6 Point,
Standard Length

Part Number	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
9172	2 1/4	3 1/4	3 3/8	3 1/4	1 1/2

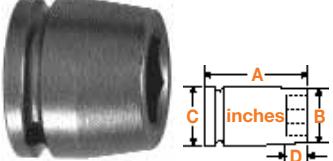
Additional sizes available upon request.

1 1/2" Sq. Dr.
Adapters

1" Male Square

Part Number	Male Square In.	Female Square In.	Type of Lock	Overall Length In.	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" Sq. Dr.
Sockets, SAE



6 Point,
Standard Length

Part Number	Hex Opening In.	Overall Length (A)	Diameter Nose End (B)	Diameter Drive End (C)	Opening Depth (D)
01112	3 1/2	4 3/4	5 1/2	5 1/2	2 1/2

Additional sizes available upon request.

If the tool you need does not appear in this catalog, give us a call. The odds are, we may have what you need as a non-catalog item. If not, our experienced staff of tooling experts can design and manufacture "specials" to meet the needs of your specific application. Give us a call at 1-800-845-5629 or visit our website www.apex-tools.com.

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

APEX Guard™

USING TUFFLEX® TECHNOLOGY

Quality Anti-Mar Fastener Tools Begin With Quality Fastener Tools.

Apex **μ-Guard** using **TUFFlex®** technology provides a protective barrier between genuine Apex fastener tools and your finely finished workpiece. The free-spinning patent-pending design provides maximum protection for polished and highly sensitive surfaces.

Apex **μ-Guard** covering is made of a thermo plastic urethane (TPU elastomer) which cushions against costly incidental side impacts. It offers the lowest coefficient of friction for maximum tool efficiency. It is also non-removable for tamper resistance.

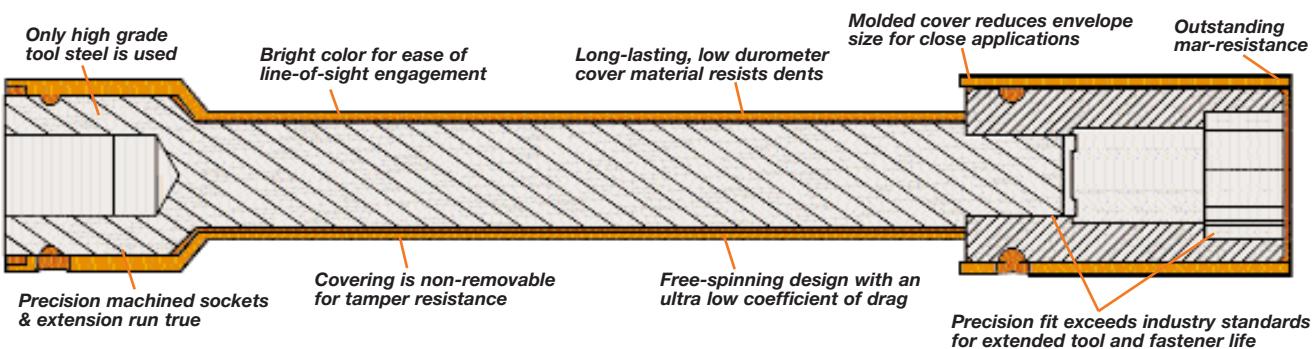
With Apex **μ-Guard** you get the proven Apex fastener tool fit and performance plus the best protection available against marring and in-system damage. **μ-Guard** is your guard against the potential hazards caused by rotational friction.



If it doesn't say Apex on the outside, how can you be sure of what's on the inside?



Why Apex **μ-Guard** Anti-Mar Fastener Tools Are The Best Choice



Quality Apex Tools Under The Cover

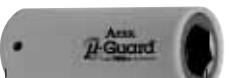
- Apex fastener tools are made from only tool grade steel then heat treated using our proprietary process for the proper hardness based on the application. Not too brittle to break nor too soft to wear out after one shift.
- Each core tool is then machined for a precision fit that exceeds industry standards. Improper fit can lead to premature fastener and fastener tool failure.
- Apex fastener tools run true with minimal wobble for more efficient fastening cycles.

The Cover Story

- A low durometer cover material that resists dents during incidental side impacts. Only Apex **μ-Guard** absorbs side impacts and does not produce raised burrs when impacted.
- Cover is molded to the tool for reduced envelope dimensions yet still is able to exhibit "free-spinning" capability for improved ergonomics and safety. No other competitor has this capability. Some competitors even require their core tool be modified in order to assemble the cover resulting in weaker integrity and premature failure.
- Covering is non-removable to prevent unwanted tampering on the line.
- Low coefficient of friction between the cover and the tool produces minimal loss of tool efficiency.
- Bright color of covering makes fastener contact visually easier shift after shift and station monitoring quick and easy.
- Part numbers are clearly marked for ease of identification.
- Only Apex has the manufacturing capability, inventory and global supply network to supply the global requirements of today's marketplace.

μ-Guard Sockets

(Includes socket and cover)



Part Number	Socket	Drive End			Socket Length	Fastener End			Assembly Features*
		Size	Type	Sex		Size	Type	Sex	
UGS-AB710	10MM21	1/4	Square	F	standard	10 mm	Hex	F	FS
UGS-AB710-01	M-10MM21	1/4	Square	F	standard	10 mm	Hex	F	FS, M
UGS-AB710-02	MB-10MM21	1/4	Square	F	standard	10 mm	Hex	F	FS, M, B
UGS-BA610	10MM13	3/8	Square	F	standard	10 mm	Hex	F	FS
UGS-BA610-01	M-10MM13	3/8	Square	F	standard	10 mm	Hex	F	FS, M
UGS-BB710	10MM23	3/8	Square	F	long	10 mm	Hex	F	FS
UGS-BB710-01	M-10MM23	3/8	Square	F	long	10 mm	Hex	F	FS, M
UGS-BB710-02	MB-10MM23	3/8	Square	F	long	10 mm	Hex	F	FS, M, B
UGS-BB713	13MM23	3/8	Square	F	long	13 mm	Hex	F	FS
UGS-BB713-01	M-13MM23	3/8	Square	F	long	13 mm	Hex	F	FS, M
UGS-BB713-02	MB-13MM23	3/8	Square	F	long	13 mm	Hex	F	FS, M, B
UGS-CB713	13MM25	1/2	Square	F	long	13 mm	Hex	F	FS
UGS-CB713-03	SF-13MM25	1/2	Square	F	long	13 mm	Hex	F	FS, SF
UGS-CB715	15MM25	1/2	Square	F	long	15 mm	Hex	F	FS
UGS-CB715-03	SF-15MM25	1/2	Square	F	long	15 mm	Hex	F	FS, SF
UGS-CB718	18MM25	1/2	Square	F	long	18 mm	Hex	F	FS
UGS-CB718-03	SF-18MM25	1/2	Square	F	long	18 mm	Hex	F	FS, SF

If your tool is not shown in the table of representative products above, please contact your Apex representative.

μ-Guard Extensions



Part Number	Extension	Drive End			Extension Length	Socket End			Assembly Features*
		Size	Type	Sex		Size	Type	Sex	
UGE-A2A	EX-250-2	1/4	Hex	M	2	1/4	Square	M	FS
UGE-A4A	EX-250-4	1/4	Hex	M	4	1/4	Square	M	FS
UGE-A6A	EX-250-6	1/4	Hex	M	6	1/4	Square	M	FS
UGE-B2A	EX-370-2	1/4	Hex	M	2	3/8	Square	M	FS
UGE-B4A	EX-370-4	1/4	Hex	M	4	3/8	Square	M	FS
UGE-B6A	EX-370-6	1/4	Hex	M	6	3/8	Square	M	FS
UGE-B3C	EX-376-3	3/8	Square	F	3	3/8	Square	M	FS
UGE-B6C	EX-376-6	3/8	Square	F	6	3/8	Square	M	FS
UGE-B12C	EX-376-12	3/8	Square	F	12	3/8	Square	M	FS
UGE-C4C	EX-508-4	1/2	Square	F	4	1/2	Square	M	FS
UGE-C8C	EX-508-8	1/2	Square	F	8	1/2	Square	M	FS
UGE-C12C	EX-508-12	1/2	Square	F	12	1/2	Square	M	FS

If your tool is not shown in the table of representative products above, please contact your Apex representative.

μ-Guard Bit Holders



Part Number	Bit Holder	Drive End			Holder Length	Fastener End			Assembly Features*
		Size	Type	Sex		Size	Type	Sex	
UGH-1NAA	M-490	1/4	Hex	M	2 31/32	1/4	Hex	F	FS, M, ET
UGH-1AAA	M-490-2	1/4	Hex	M	2	1/4	Hex	F	FS, M, ET
UGH-2NBG	838	3/8	Square	F	1 1/2	1/4	Hex	F	FS, ET
UGH-1NBG	M-838	3/8	Square	F	2 5/8	1/4	Hex	F	FS, M, ET
UGH-2NBC	835	3/8	Square	F	1 1/2	5/16	Hex	F	FS, ET
UGH-1NBC	M-835	3/8	Square	F	2 3/4	5/16	Hex	F	FS, M, ET
UGH-2NBD	855	1/2	Square	F	1 1/2	5/16	Hex	F	FS, ET
UGH-1NBD	M-855	1/2	Square	F	2 3/4	5/16	Hex	F	FS, M, ET
UGH-2NCK	QR-308	3/8	Square	F	1 3/4	1/4	Hex	F	FS, QR
UGH-2NCF	QR-508	1/2	Square	F	2 1/8	1/4	Hex	F	FS, QR
UGH-2NCJ	QR-314	3/8	Square	F	2	7/16	Hex	F	FS, QR
UGH-2NCL	QR-514	1/2	Square	F	2 1/8	7/16	Hex	F	FS, QR

If your tool is not shown in the table of representative products above, please contact your Apex representative.

*Features Abbreviations

- FS Free Spinning
- M Magnetic
- B Bolt Clearance
- SF Surface Drive
- Tool is able to rotate independently of Cover
- Tool includes magnet to hold the position of the fastener during fastening operation
- Tool is spring-loaded to allow the bolt or nut to retract into the socket body
- Tool has radiused corners to allow easier alignment and engagement of fastener

- ET Exposed Tip
- QR Quick Release
- Notes:
- Cover extends beyond end of Bit Holder to shield the majority of a standard 1 inch long Insert Bit.
- Tip of Insert Bit will not be covered to allow for easier fastener engagement.
- Tool has tension feature to allow quick & easy change between power bits
- Cover will not extend beyond end of Bit Holder
- Reported lengths are based on uncovered tool length only for reference. Cover may extend beyond end of tool by 2 mm unless otherwise noted.

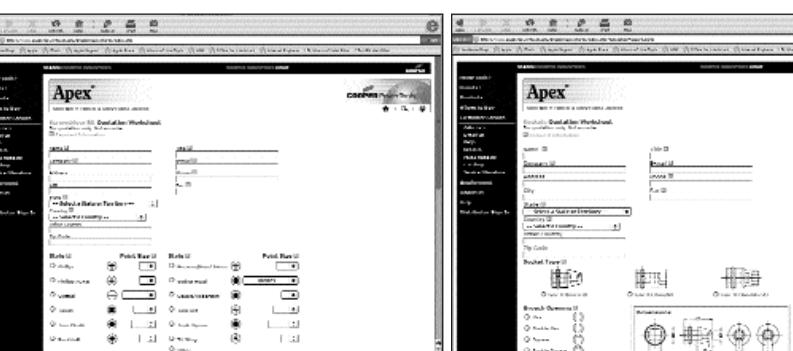
Don't see what you need?

This catalog contains 3,000+ of the most frequently requested bits, sockets and fastening accessories. Our entire active offering approaches 10,000 sellable part numbers. If the tool you need does not appear in this catalog, give us a call. The odds are, we may have what you need as a non-catalog item. If not, our experienced staff of tooling experts can design and manufacture "specials" to meet the needs of your specific applications.

This flexibility has helped make Apex the only manufacturer which is a market and technology leader in all of the following industrial product categories: Bits & Bit Holders, Impact Sockets, Extensions and Universal Wrenches.

The screenshot shows the Apex website's ordering interface. It features a search bar at the top, followed by sections for 'Product Type', 'Product ID', 'Search by Part Number', and 'Search by Description'. Below these are dropdown menus for 'Fastener Type', 'Fastener Size', and 'Fastener Sex'. A large central area displays a 3D rendering of various tools like sockets and wrenches. To the right, there are sections for 'Order Tools', 'Order Bits', and 'Order Bit Holders', each with a 'Get a quote on-line fast!' button. The bottom of the page includes a footer with links to 'About Apex', 'Contact Us', and 'Privacy Policy'.

universal joints are available on-line. Just complete the appropriate easy to use form and submit your request. You'll receive a rapid response from one of our experienced staff of tooling experts.



Easy to complete forms are available on-line at our website www.apex-tools.com.

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



Apex® FreeSpin™ Covers

For Durability Protection.

Reduce Costly "Re-Works"

Apex Free-Spin anti-mar cover assemblies protect painted, plated, polished or critical surfaces from direct incidental contact with sockets and extensions. With Apex Free-Spin covers, damage caused by marring is greatly reduced.

Low-Cost Durable Protection

Apex Free-Spin anti-mar covers are the most economical protection you can get. The durable nylon construction provides many cycles of protection, shift after shift.

Popular Sizes Are Available Now!

All Apex Free-Spin anti-mar cover assemblies on the adjacent charts are available for quick delivery.

Simple Design Installs In Seconds!

Apex Free-Spin covers can be installed in seconds. No special trips to the tool crib are required.

Male Drive End Assembly*



*For best results, Apex recommends using our optional installation tool for installing the retaining ring. See page 70.

Female Drive End Assembly



Standard socket - Heavy Damage



Static covered socket - Light Damage



Apex Free-Spin socket cover - Virtually Damage Free



How to use the Tables below:

Socket Cover Example

You need a Cover that fits Socket Part # M-10MM13

- From your Apex catalog or by measuring part:
Drive End Diameter = 19.1 mm
Overall Length = 31.8 mm
Hex Opening = 10 mm
- Match your "Drive End Diameter" then "Socket Length" with those listed in the **Free-Spin Covers For Sockets** table below.
- Find "Cover Part #" where your "Hex Opening" fits within "Min & Max Hex Size" values.
Use Cover Part # **NCS0752B1252C** (shown in orange below).

Socket with Extension Cover Example

You need a Cover that fits Socket part # 8MM11 and Extension part # EX-255

- From your Apex catalog or by measuring part:
Extension Length = 8 inches
Drive End Diameter = 12.7 mm
Overall Length = 25.4 mm
- Find the group of "Cover Assy Part #'s" that fit your "Extension Part #" from the **Covers For Sockets with Extensions** table below.
- Select the "Cover Assy Part #" that matches your "Drive End Diameter" and "Socket Length".
- Replace the **XX** in the "Cover Assy. Part #" with your 2-digit Extension Length (available lengths are listed under "Extension Length").
Use Cover Assy. Part # **NCEB08F-S0500-1000** (shown in orange below).

Free-Spin Covers For Sockets

Cover Part Number	Fits Hex Socket with these Outer Dimensions**					
	Drive End Diameter (inch)	Drive End Diameter (mm)	Socket Length (inch)	Socket Length (mm)	Min Hex Size* (inch)	Max Hex Size* (inch)

1/4" Drive

NCS0500A0875A	0.500	12.7	0.875	22.2	3.5	4.0
NCS0500A0875B	0.500	12.7	0.875	22.2	4.5	5.0
NCS0500A0875C	0.500	12.7	0.875	22.2	5.5	1/4
NCS0500A0875D	0.500	12.7	0.875	22.2	1/4	9/32
NCS0500A0875E	0.500	12.7	0.875	22.2	5/16	5/16
NCS0500A1000A	0.500	12.7	1.000	25.4	E-4	E-5
NCS0500A1000B	0.500	12.7	1.000	25.4	E-6	E-6
NCS0500A1000C	0.500	12.7	1.000	25.4	9/32	E-8
NCS0500A1000D	0.500	12.7	1.000	25.4	8.0	11/32
NCS0500A1750A	0.500	12.7	1.750	44.5	3/16	1/4
NCS0500A1750B	0.500	12.7	1.750	44.5	7.0	9/32
NCS0500A1750C	0.500	12.7	1.750	44.5	5/16	8.0
NCS0563A1000A	0.563	14.3	1.000	25.4	11/32	10.0
NCS0626A1000A	0.626	15.9	1.000	25.4	3/8	7/16
NCS0626A1750A	0.626	15.9	1.750	44.5	10.0	7/16
3/8" Drive						
NCS0752B0875A	0.752	19.1	0.875	22.2	7.0	5/16
NCS0752B0875B	0.752	19.1	0.875	22.2	9.0	7/16
NCS0752B0875C	0.752	19.1	0.875	22.2	12.0	12
NCS0752B1252A	0.752	19.1	1.252	31.8	3/16	6.0
NCS0752B1252B	0.752	19.1	1.252	31.8	6.0	9.0
NCS0752B1252C	0.752	19.1	1.252	31.8	9.0	11.0
NCS0752B1252D	0.752	19.1	1.252	31.8	7/16	12.0
NCS0752B1500A	0.752	19.1	1.500	38.1	7/32	9/32
NCS0752B1500B	0.752	19.1	1.500	38.1	3/8	12.0
NCS0752B1500C	0.752	19.1	1.500	38.1	15/32	9/16
NCS0752B2000A	0.752	19.1	2.000	50.8	6.0	11/32

Cover Part Number	Fits Hex Socket with these Outer Dimensions**					
	Drive End Diameter (inch)	Drive End Diameter (mm)	Socket Length (inch)	Socket Length (mm)	Min Hex Size* (inch)	Max Hex Size* (inch)

NCS0752B2000B	0.752	19.1	2.000	50.8	9.0	3/8
NCS0752B2000C	0.752	19.1	2.000	50.8	12.0	1/2
NCS0813B0875A	0.813	20.7	0.875	22.2	1/2	13.0
NCS0813B1500A	0.813	20.7	1.500	38.1	14	9/16
NCS0813B1500B	0.813	20.7	1.500	38.1	1/2	15
NCS0813B2000A	0.813	20.7	2.000	50.8	1/2	9/16
NCS0813B3500A	0.813	20.7	3.500	88.9	1/2	13.0
NCS0875B1500A	0.875	22.2	1.500	38.1	14.0	16.0
NCS0875B2000A	0.875	22.2	2.000	50.8	14.0	15.0
1/2" Drive						
NCS0938C1500A	0.938	23.8	1.500	38.1	1/4	11/32
NCS0938C1500B	0.938	23.8	1.500	38.1	5/16	12.0
NCS0938C1500C	0.938	23.8	1.500	38.1	1/2	9/16
NCS0938C1500D	0.938	23.8	1.500	38.1	1/2	17.0
NCS0938C2250A	0.938	23.8	2.250	57.2	5/16	10.0
NCS0938C2250B	0.938	23.8	2.250	57.2	11.0	9/16
NCS0938C2250C	0.938	23.8	2.250	57.2	15.0	15.0
NCS0938C3250A	0.938	23.8	3.250	82.6	5/16	10.0
NCS0938C3250B	0.938	23.8	3.250	82.6	10.0	13.0
NCS0938C3250C	0.938	23.8	3.250	82.6	13.0	16.0
NCS0938C3250D	0.938	23.8	3.250	82.6	15.0	11/16
NCS1000C1500A	1.000	25.4	1.500	38.1	E-10	E-12
NCS1000C1500B	1.000	25.4	1.500	38.1	E-14	E-16
NCS1000C1500C	1.000	25.4	1.500	38.1	5/8	5/8
NCS1000C1500D	1.000	25.4	1.500	38.1	1/2	18
NCS1126C1500A	1.126	28.6	1.500	38.1	3/4	20.0
NCS1126C1500B	1.126	28.6	1.500	38.1	9/16	21.0
NCS1126C2250A	1.126	28.6	2.250	57.2	17.0	3/4

* "E" designation (i.e. E-8) stands for the point size of a Torx socket

• Straight socket (i.e. Non-tapered.)

** Socket must have a ring groove. Sockets that do not have ring grooves are noted as such in the catalog.

Free-Spin Cover Assemblies For Sockets with Extensions

Cover Assembly Part Number	Extension Part Number	Drive Size	Ext. Type	Extension Length (inches)*	Fits any socket with these 2 outer dimensions	
Socket Drive End Diameter		Socket Overall Length				
(inch)</						

Covers For Sockets with Extensions (continued)

Cover Assembly Part Number	Extension Part Number	Drive Size	Ext. Type	Extension Length (inches)*	Fits any socket with these 2 outer dimensions			
					Socket Drive End Diameter		Socket Overall Length	
					(inch)	(mm)	(inch)	(mm)
NCEAXXM-S0500-0875	EX-250-XX or EX-250-B-XX	1/4"	Male	XX = 3, 4, 6, 8 or 12	0.500	12.7	0.875	22.2
NCEAXXM-S0500-1000	EX-250-XX or EX-250-B-XX	1/4"	Male	XX = 3, 4, 6, 8 or 12	0.500	12.7	1.000	25.4
NCEAXXM-S0500-1750	EX-250-XX or EX-250-B-XX	1/4"	Male	XX = 3, 4, 6, 8 or 12	0.500	12.7	1.750	44.5
NCEAXXM-S0563-1000	EX-250-XX or EX-250-B-XX	1/4"	Male	XX = 3, 4, 6, 8 or 12	0.563	14.3	1.000	25.4
NCEAXXM-S0626-1000	EX-250-XX or EX-250-B-XX	1/4"	Male	XX = 3, 4, 6, 8 or 12	0.626	15.9	1.000	25.4
NCEAXXM-S0626-1750	EX-250-XX or EX-250-B-XX	1/4"	Male	XX = 3, 4, 6, 8 or 12	0.626	15.9	1.750	44.5
NCEBXXF-S0500-0875	EX-255-XX or EX-255-B-XX	1/4"	Female	XX = 2, 3, 4, 6, 8, 10 or 12	0.500	12.7	0.875	22.2
NCEBXXF-S0500-1000	EX-255-XX or EX-255-B-XX	1/4"	Female	XX = 2, 3, 4, 6, 8, 10 or 12	0.500	12.7	1.000	25.4
NCEBXXF-S0500-1750	EX-255-XX or EX-255-B-XX	1/4"	Female	XX = 2, 3, 4, 6, 8, 10 or 12	0.500	12.7	1.750	44.5
NCEBXXF-S0563-1000	EX-255-XX or EX-255-B-XX	1/4"	Female	XX = 2, 3, 4, 6, 8, 10 or 12	0.563	14.3	1.000	25.4
NCEBXXF-S0626-1000	EX-255-XX or EX-255-B-XX	1/4"	Female	XX = 2, 3, 4, 6, 8, 10 or 12	0.626	15.9	1.000	25.4
NCEBXXF-S0626-1750	EX-255-XX or EX-255-B-XX	1/4"	Female	XX = 2, 3, 4, 6, 8, 10 or 12	0.626	15.9	1.750	44.5
NCEJXXM-S0625-1250	EX-370-XX or EX-370-B-XX	1/4"	Male	XX = 4, 6, 8 or 10	0.625	15.9	1.250	31.8
NCEJXXM-S0752-0875	EX-370-XX or EX-370-B-XX	1/4"	Male	XX = 4, 6, 8 or 10	0.752	19.1	0.875	22.2
NCEJXXM-S0752-1252	EX-370-XX or EX-370-B-XX	1/4"	Male	XX = 4, 6, 8 or 10	0.752	19.1	1.252	31.8
NCEJXXM-S0752-1500	EX-370-XX or EX-370-B-XX	1/4"	Male	XX = 4, 6, 8 or 10	0.752	19.1	1.500	38.1
NCEJXXM-S0752-2000	EX-370-XX or EX-370-B-XX	1/4"	Male	XX = 4, 6, 8 or 10	0.752	19.1	2.000	50.8
NCEJXXM-S0813-0875	EX-370-XX or EX-370-B-XX	1/4"	Male	XX = 4, 6, 8 or 10	0.813	20.7	0.875	22.2
NCEJXXM-S0813-1500	EX-370-XX or EX-370-B-XX	1/4"	Male	XX = 4, 6, 8 or 10	0.813	20.7	1.500	38.1
NCEJXXM-S0813-2000	EX-370-XX or EX-370-B-XX	1/4"	Male	XX = 4, 6, 8 or 10	0.813	20.7	2.000	50.8
NCEJXXM-S0813-3500	EX-370-XX or EX-370-B-XX	1/4"	Male	XX = 4, 6, 8 or 10	0.813	20.7	3.500	88.9
NCEJXXM-S0875-1500	EX-370-XX or EX-370-B-XX	1/4"	Male	XX = 4, 6, 8 or 10	0.875	22.2	1.500	38.1
NCEJXXM-S0875-2000	EX-370-XX or EX-370-B-XX	1/4"	Male	XX = 4, 6, 8 or 10	0.875	22.2	2.000	50.8
NCEKXXM-S0625-1250	EX-371-XX or EX-371-B-XX	7/16"	Male	XX = 6, 8 or 10	0.625	15.9	1.250	31.8
NCEKXXM-S0752-0875	EX-371-XX or EX-371-B-XX	7/16"	Male	XX = 6, 8 or 10	0.752	19.1	0.875	22.2
NCEKXXM-S0752-1252	EX-371-XX or EX-371-B-XX	7/16"	Male	XX = 6, 8 or 10	0.752	19.1	1.252	31.8
NCEKXXM-S0752-1500	EX-371-XX or EX-371-B-XX	7/16"	Male	XX = 6, 8 or 10	0.752	19.1	1.500	38.1
NCEKXXM-S0752-2000	EX-371-XX or EX-371-B-XX	7/16"	Male	XX = 6, 8 or 10	0.752	19.1	2.000	50.8
NCEKXXM-S0813-0875	EX-371-XX or EX-371-B-XX	7/16"	Male	XX = 6, 8 or 10	0.813	20.7	0.875	22.2
NCEKXXM-S0813-1500	EX-371-XX or EX-371-B-XX	7/16"	Male	XX = 6, 8 or 10	0.813	20.7	1.500	38.1
NCEKXXM-S0813-2000	EX-371-XX or EX-371-B-XX	7/16"	Male	XX = 6, 8 or 10	0.813	20.7	2.000	50.8
NCEKXXM-S0813-3500	EX-371-XX or EX-371-B-XX	7/16"	Male	XX = 6, 8 or 10	0.813	20.7	3.500	88.9
NCEKXXM-S0875-1500	EX-371-XX or EX-371-B-XX	7/16"	Male	XX = 6, 8 or 10	0.875	22.2	1.500	38.1
NCEKXXM-S0875-2000	EX-371-XX or EX-371-B-XX	7/16"	Male	XX = 6, 8 or 10	0.875	22.2	2.000	50.8
NCEMXXF-S0625-1250	EX-376-XX or EX-376-B-XX	3/8"	Female	XX = 3, 4, 5, 6, 8, 10, 12, 15 or 18	0.625	15.9	1.250	31.8
NCEMXXF-S0752-0875	EX-376-XX or EX-376-B-XX	3/8"	Female	XX = 3, 4, 5, 6, 8, 10, 12, 15 or 18	0.752	19.1	0.875	22.2
NCEMXXF-S0752-1252	EX-376-XX or EX-376-B-XX	3/8"	Female	XX = 3, 4, 5, 6, 8, 10, 12, 15 or 18	0.752	19.1	1.252	31.8
NCEMXXF-S0752-1500	EX-376-XX or EX-376-B-XX	3/8"	Female	XX = 3, 4, 5, 6, 8, 10, 12, 15 or 18	0.752	19.1	1.500	38.1
NCEMXXF-S0752-2000	EX-376-XX or EX-376-B-XX	3/8"	Female	XX = 3, 4, 5, 6, 8, 10, 12, 15 or 18	0.752	19.1	2.000	50.8
NCEMXXF-S0813-0875	EX-376-XX or EX-376-B-XX	3/8"	Female	XX = 3, 4, 5, 6, 8, 10, 12, 15 or 18	0.813	20.7	0.875	22.2
NCEMXXF-S0813-1500	EX-376-XX or EX-376-B-XX	3/8"	Female	XX = 3, 4, 5, 6, 8, 10, 12, 15 or 18	0.813	20.7	1.500	38.1
NCEMXXF-S0813-2000	EX-376-XX or EX-376-B-XX	3/8"	Female	XX = 3, 4, 5, 6, 8, 10, 12, 15 or 18	0.813	20.7	2.000	50.8
NCEMXXF-S0813-3500	EX-376-XX or EX-376-B-XX	3/8"	Female	XX = 3, 4, 5, 6, 8, 10, 12, 15 or 18	0.813	20.7	3.500	88.9
NCEMXXF-S0875-1500	EX-376-XX or EX-376-B-XX	3/8"	Female	XX = 3, 4, 5, 6, 8, 10, 12, 15 or 18	0.875	22.2	1.500	38.1
NCEMXXF-S0875-2000	EX-376-XX or EX-376-B-XX	3/8"	Female	XX = 3, 4, 5, 6, 8, 10, 12, 15 or 18	0.875	22.2	2.000	50.8
NCEUXXF-S0938-1500	EX-508-XX or EX-508-B-XX	1/2"	Female	XX = 3, 4, 5, 6, 8, 10, 12, 15 or 18	0.938	23.8	1.500	38.1
NCEUXXF-S0938-2250	EX-508-XX or EX-508-B-XX	1/2"	Female	XX = 3, 4, 5, 6, 8, 10, 12, 15 or 18	0.938	23.8	2.250	57.2
NCEUXXF-S0938-3250	EX-508-XX or EX-508-B-XX	1/2"	Female	XX = 3, 4, 5, 6, 8, 10, 12, 15 or 18	0.938	23.8	3.250	82.6
NCEUXXF-S1000-1500	EX-508-XX or EX-508-B-XX	1/2"	Female	XX = 3, 4, 5, 6, 8, 10, 12, 15 or 18	1.000	25.4	1.500	38.1
NCEUXXF-S1126-1500	EX-508-XX or EX-508-B-XX	1/2"	Female	XX = 3, 4, 5, 6, 8, 10, 12, 15 or 18	1.126	28.6	1.500	38.1
NCEUXXF-S1126-2250	EX-508-XX or EX-508-B-XX	1/2"	Female	XX = 3, 4, 5, 6, 8, 10, 12, 15 or 18	1.126	28.6	2.250	57.2

* XX suffix on Extension P/N is a whole number indicating the length in inches of the extension.
In some cases this designation is left off of the end of the extension P/N indicating that it is the shortest length capable of being manufactured.
For Extension lengths shorter than those listed, a Socket Only cover would be used.

Free-Spin Cover Installation Tool

Installation tool ensures proper positioning of the retaining ring on extensions with male drive end.



Part Number Used on Covers with Part # Prefix

543805 NCEA, NCEJ, NCEK

Don't see what you need?

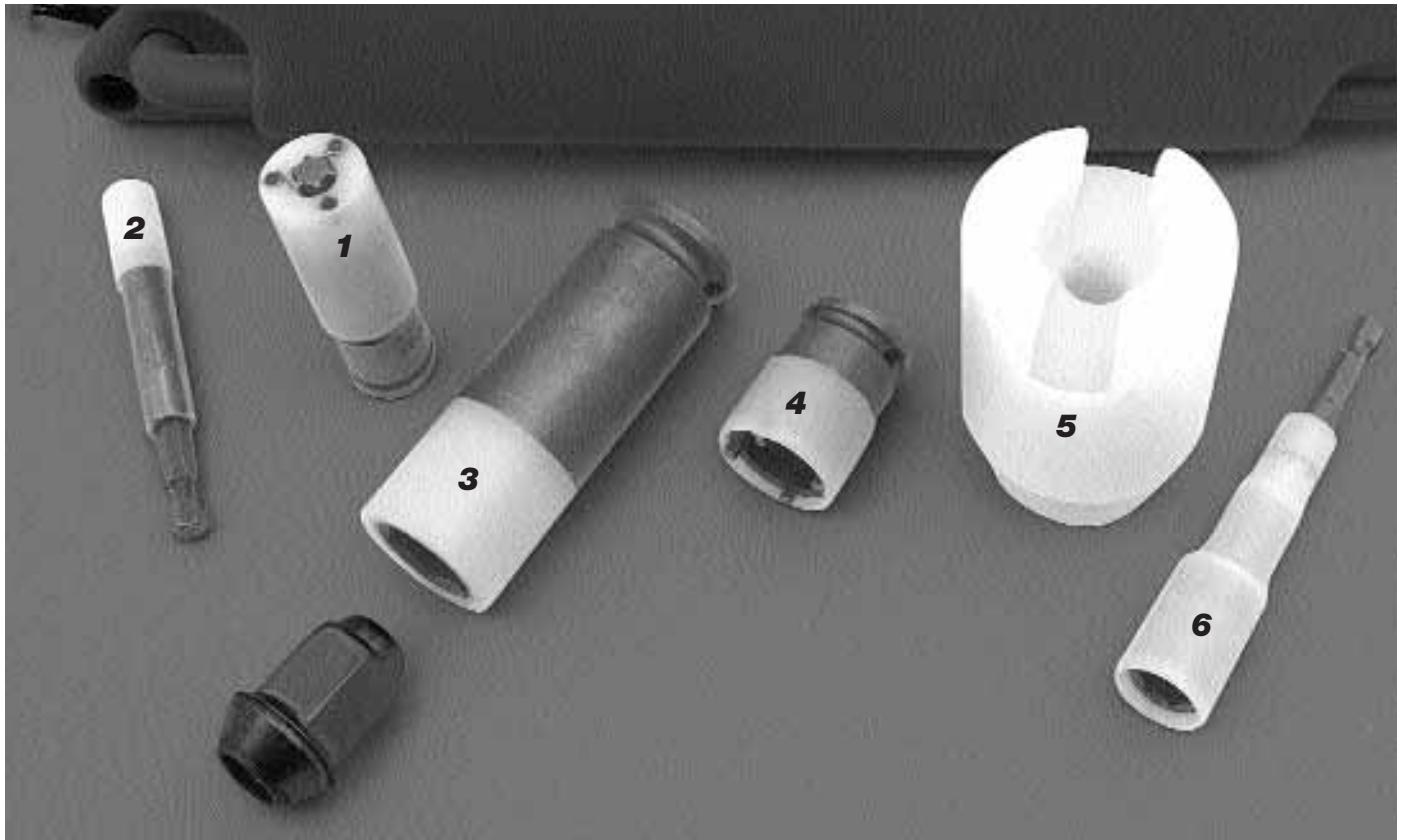
This catalog contains 3,000+ of the most frequently requested bits, sockets and fastening accessories. Our entire active offering approaches 10,000 sellable part numbers. If the tool you need does not appear in this catalog, give us a call. The odds are, we may have what you need as a non-catalog item. If not, our experienced staff of tooling experts can design and manufacture "specials" to meet the needs of your specific applications.

This flexibility has helped make Apex the only manufacturer which is a market and technology leader in all of the following industrial product categories: Bits & Bit Holders, Impact Sockets, Extensions and Universal Wrenches.



universal joints are available on-line. Just complete the appropriate easy to use form and submit your request. You'll receive a rapid response from one of our experienced staff of tooling experts.

Apex Has A Wide Selection Of Custom Designed Anti-Mar Covers.



Over Half A Century Of Quality In Every Design

For many years Apex has been producing protective covers for our quality products. Each was custom designed by our staff of engineers to work in a specific application. Over time we have developed a vast library of designs that work not only for their original applications but may also be a solution for one of your applications.



Our covered product designs include sockets, sockets and extensions, bits and bit holders, nutsetters and many more.

Each design was developed with one or more of the following unique features and capabilities:

- Free-spinning covers which allow the tool to rotate independently of the cover for improved protection of sensitive surfaces.
- Spring-loaded covers which retract when engaging the fastener.
- Embedded magnets in covers increase holding force on fastener.
- Single-piece construction to reduce material interfaces.
- Press fit/non-free-spinning for reduced envelope size in tight clearance applications.

Apex recognizes the need in assembly operations for the protection of painted or finished surfaces. We can coat just about any Apex bit or socket with a protective nylon sleeve. Shown above are some recently manufactured solutions with a brief description of the application.

1. Pick-up Truck Tailgate to Bed

Torx® T-45 Bit with magnets within the sleeve to secure fastener.

2. Sun Visor Installation
Phillips bit used with magnetic bit holder. Nylon sleeve reduces headliner and visor damage.

3. Lug Nut Assembly

Magnetic 19MM socket has nylon coating to protect chrome plated and polished aluminum wheels.

4. Antenna Driver

Four-prong antenna bezel nutdriver with nylon sleeve to reduce damage to painted surface.

5. Spare Tire Wing Nut Assembly

All nylon socket to install low torque wing nut.

6. Painted Door Assembly

Only the nutsetter spins within the nylon sleeve, eliminating any mark on surface around the fastener. Nylon sleeve also protects adjacent painted door surface.

How to use this guide:

1. Scan the desired category of product for Assembly Part Numbers that meet your criteria using chart to explain abbreviations.
2. Contact your local Apex representative to confirm suitability and provide pricing.
3. Fill out either the Bit Worksheet or the Socket Quotation Worksheet located in the back of this brochure and fax to your local Apex representative, if your requirements dictate a product not found in the tables that follow.

*Features Abbreviations	ER Embedded Rare Earth Magnets	LC Limited Clearance	R Rare Earth Magnet	SF Surface Drive
B Bolt Clearance	ET Exposed Tip	M Magnetic	RE Retractable / Finder Sleeve	SM Strip Magnet
DM Donut Magnet	FL Fast Lead	P Pinned	RNT Removable Nylon Tip	TD Turned OD
EC Extension Cover Only	FS Free Spinning	PC Partially Covered	RT Recessed Tip	U Universal (Swivel)
EM Embedded Magnets	FT Flush to Tip	PF Press Fit	SB Shallow Broach	

Covered Power Bit Complete Assemblies (Includes Tool and Anti-Mar Cover)

Complete Assembly Ordering Number	Bit				Cover Features*
	Type	Drive Size	Pt. Size	Length (in.)	
SD-5211	Phillips	1/4	2	1 15/16	ET PF
SD-4462-3	Phillips	1/4	3	3.5	RE RT RNT
SD-5349	Phillips	1/4	3	3.5	RE RT (for 0.41" dia fastener head)
SD-5346-K	Torx	7/16	45	3.5	RE RT (for 0.56" dia fastener head)
SD-5346-N	Torx	7/16	45	3.5	RE RT (for 0.66" dia fastener head)
SD-5370	Torx	7/16	50	3.5	PF RT (for 1.12" dia fastener head)
SD-5362	Hex	1/4	5 mm	4	PF R
SD-5362-6	Hex	1/4	5 mm	6	PF RT

Covered Insert Bit & Bit Holder Complete Assemblies (Includes Tool and Anti-Mar Cover)

Complete Assembly Ordering Number	Holder					Bit	Cover Features*
	Drive Size	Drive Type	Sex	Length (in.)	Features*		
SD-5306	1/4	Hex	M	2 31/32	M	Phillips	1/4 1 1 LC EM FS RT
SD-5323	1/4	Hex	M	6	M	Torx	1/4 30 1 EM FS RT
SD-5346-O	1/4	Hex	M	2 31/32	M	Torx	1/4 40 1 RE FS RT

Covered Nutsetter Complete Assemblies (Includes Tool and Anti-Mar Cover)

Complete Assembly Ordering Number	Nutsetter						Cover Features*
	Drive Size	Drive Type	Opening Size	Opening Type	Length (in.)	Features*	
MNC6N-08-10M-4	1/4	Hex	8 mm	Hex	4	M	FS FT
MNC6N-08-10M-6	1/4	Hex	8 mm	Hex	6	M	FS FT
SMNC6B-08-10M-4	1/4	Hex	8 mm	Hex	4	SM	FS FT
SMNC6B-08-10M-6	1/4	Hex	8 mm	Hex	6	SM	FS FT
SMNC6B-08-10M-9	1/4	Hex	8 mm	Hex	9	SM	FS FT
VMNC-56-10MM	1/4	Hex	10 mm	Hex	2.54	RT PF	

Covered Socket Complete Assemblies (Includes Tool and Anti-Mar Cover)

Complete Assembly Ordering Number	Socket						Cover Features*
	Drive Size	Drive Type	Opening Size**	Opening Type	Length (in.)	Features*	
MRNC-5.5MME1	1/4	Square	5.5	Hex	0.938	M R	FT PF
MRNC-7MME1	1/4	Square	7	Hex	0.875	M R	FT PF
RMBNC-7MM21	1/4	Square	7	Hex	1.75	R B	FT PF
RMBNC-10MM21	1/4	Square	10	Hex	1.75	R B	FT PF
MNC-10MM11	1/4	Square	10	Hex	1	M	FT PF
VANC-229-10MM	1/4	Square	10	Hex	1.75	M B	FT PF
MRHCNC-22612	3/8	Square	3/8	Hex	1.25	M R TD	RT PF PC
HCNC-22512	3/8	Square	3/8	Hex	1.5	TD SB	FT PF PC
HCNC-13014	3/8	Square	7/16	Hex	1.5	TD SB	FT PF PC
HCNC-13414	3/8	Square	7/16	Hex	1.5	TD	FT PF PC
HCNC-20918	3/8	Square	9/16	Hex	3.5		FT PF PC
BZCNC-30	3/8	Square	3/4	Bezel	1.5	4 lugs	ET PF PC
HCNC-2424	3/8	Square	3/4	Dbl. Hex	0.89	stepped	FT PF PC
BZCNC-31	3/8	Square	69/94	Bezel	1.5	4 lugs	ET PF PC
HCNC-1130-D	3/8	Square	15/16	Dbl. Hex	1.25	stepped	FT PF PC
MVCNC-53-7MM	3/8	Square	7	Hex	2	M	FT PF

Continued on next page.

**Fractions represent inches. Integers represent metric (mm).

*Features Abbreviations	ER	Embedded Rare Earth Magnets	LC	Limited Clearance	R	Rare Earth Magnet	SF	Surface Drive
B	Bolt Clearance		M	Magnetic	RE	Retractable / Finder Sleeve	SM	Strip Magnet
DM	Donut Magnet		FL	Fast Lead	PC	Partially Covered	TD	Turned OD
EC	Extension Cover Only		FS	Free Spinning	PF	Press Fit	U	Universal (Swivel)
EM	Embedded Magnets		FT	Flush to Tip		SB		Shallow Broach

Covered Socket with Extension Complete Assemblies (Includes Tool and Anti-Mar Cover)

Complete Assembly Ordering Number	Extension				Socket			Cover Features*
	Drive Size	Drive Type	Sex	Length (in.)	Opening Size	Opening Type	Length (in.)	
MNC-8MM23	3/8	Square	8	Hex	2	M	RT PF PC	
MBVCNC-707-10MM	3/8	Square	10	Hex	2	M B	RT PF PC	
MBVCNC-731-10MM	3/8	Square	10	Hex	2	M B TD	FT PF PC	
MBVCNC-733-10MM	3/8	Square	10	Hex	2	M B TD	RT PF PC	
MBVCNC-781-10MM	3/8	Square	10	Hex	2	M B TD	FT PF PC	
MBVCNC-795-10MM	3/8	Square	10	Hex	2	M B	RT PF PC	
MVCNC-734-10MM	3/8	Square	10	Hex	2	M	FT PF	
RMBNC-10MM23	3/8	Square	10	Hex	2	R B	FT PF	
VCNC-736-10MM	3/8	Square	10	Hex	1.25		RT PF	
VCNC-790-10MM	3/8	Square	10	Hex	1.25	TD	RT PF PC	
VCSFNC-789-10MM	3/8	Square	10	Hex	3.5	SF TD	FT PF	
VCNC-791-10MM-D	3/8	Square	10	Dbl. Hex	1.25		RT PF PC	
VCNC-792-10MM-D	3/8	Square	10	Dbl. Hex	2		RT PF PC	
MVC-610-13MM	3/8	Square	13	Hex	1.5	M SF	RT PF PC	
VCNC-631-13MM	3/8	Square	13	Hex	1.5		RT PF	
MBVCNC-634-13MM	3/8	Square	13	Hex	2	M B	RT PF PC	
VCNC-667-13MM	3/8	Square	13	Hex	3.5		RT PF PC	
VCSFNC-633-13MM	3/8	Square	13	Hex	2.6	SF	RT PF PC	
VCNC-69-24MM	3/8	Square	24	Hex	1.5		RT PF PC	
MBVENC-104-13MM	1/2	Square	13	Hex	2.25	M B	FT PF	
MNC-17MM55	1/2	Square	17	Hex	3.25	M	FT PF	
SMVENC-105-18MM	1/2	Square	18	Hex	1.5	SM	FT PF	
VESFNC-153-19MM	1/2	Square	19	Hex	3.25	SF	FT PF	
VESFNC-105-21MM	1/2	Square	21	Hex	1.5	SF	FT PF	
HFSF-14424	5/8	Square	3/4	Hex	1.914	SF	RT PF PC	
VFSFNC-118-19MM	5/8	Square	19	Hex	1.875	SF TD	RT PF PC	
MBVFNC-117-19MM	5/8	Square	19	Hex	3.5	M B SF TD	RT PF PC	
VFSFNC-103-19MM	5/8	Square	19	Hex	3.5	SF TD	RT PF PC	
VFSFNC-110-19MM	5/8	Square	19	Hex	3.5	SF TD	RT PF PC	
VFSFNC-111-19MM	5/8	Square	19	Hex	3.5	SF TD	RT PF PC	
VFSFNC-112-19MM	5/8	Square	19	Hex	3.5	SF TD	RT PF PC	
MVFNC-99-19MM	5/8	Square	19	Hex	3.545		RT PF PC ER	
MRVFSFNC-115-19MM	5/8	Square	19	Hex	3.75	M R SF TD	RT PF PC	
MBRVFNC-116-19MM	5/8	Square	19	Hex	4.5	M B R	RT PF PC	
MBRVFSFNC-119-19MM	5/8	Square	19	Hex	4.5	M B R SF	RT PF PC	
RMBRVFNC-114-19MM	5/8	Square	19	Hex	4.5	M R	RT PF PC	
MRMBVFSFNC-20-21MM	5/8	Square	21	Hex	3	M R SF	RT PF PC	
MRVFSFNC-18-21MM	5/8	Square	21	Hex	3	M R SF	RT PF PC	
RMBVFSFNC-18-21MM	5/8	Square	21	Hex	3	M B R SF	RT PF PC	
HGSF-13824-A	3/4	Square	3/4	Hex	3.125	SF	RT PF PC	
HGSFNC-14524	3/4	Square	3/4	Hex	4	SF	RT PF PC	
MHGNC-14624	3/4	Square	3/4	Hex	4	M TD	RT PF PC	
HGSFNC-3028	3/4	Square	7/8	Hex	4	SF	RT PF PC	
VGNC-105-17MM	3/4	Square	17	Hex	2.375	TD	RT PF PC	
VGNC-108-17MM	3/4	Square	17	Hex	3.25	TD	RT PF PC	
VGSFNC-109-17MM	3/4	Square	17	Hex	4	SF TD	RT PF PC	
VGNC-28-19MM	3/4	Square	19	Hex	2.375	TD	RT PF PC	
VGSFNC-34-19MM	3/4	Square	19	Hex	3.25	SF TD	RT PF PC	
VGSFNC-56-21MM	3/4	Square	21	Hex	4	SF TD	RT PF PC	
RMBVGSFNC-53-21MM	3/4	Square	21	Hex	4.5	M B R SF	RT PF PC	
VGSFNC-55-21MM	3/4	Square	21	Hex	6	SF	RT PF	
VGFLNC-40-22MM	3/4	Square	22	Hex	2.5	FL	RT PF PC	
VGSFNC-40-22MM	3/4	Square	22	Hex	2.5	SF	RT PF PC	
MBRVGNC-34-22MM	3/4	Square	22	Hex	4	M B R	RT PF PC	
RMBRVGSFNC-38-22MM	3/4	Square	22	Hex	4	M B R SF	RT PF PC	
VGSFNC-39-22MM	3/4	Square	22	Hex	4	SF TD	RT PF PC	

*Features Abbreviations	ER	Embedded Rare Earth Magnets	LC	Limited Clearance	R	Rare Earth Magnet	SF	Surface Drive
B	Bolt Clearance		M	Magnetic	RE	Retractable / Finder Sleeve	SM	Strip Magnet
DM	Donut Magnet		FL	Fast Lead	PC	Partially Covered	TD	Turned OD
EC	Extension Cover Only		FS	Free Spinning	PF	Press Fit	U	Universal (Swivel)
EM	Embedded Magnets		FT	Flush to Tip		SB		Shallow Broach

Covered Socket Complete Assemblies – continued (Includes Tool and Anti-Mar Cover)

Complete Assembly Ordering Number	Socket						Cover Features*
	Drive Size	Drive Type	Opening Size**	Opening Type	Length (in.)	Features*	
MBVANC-85-8MM	1/4	Square	F	3	8	Hex	1.75 M B FS
MVMNC-8-7MM	1/4	Hex	M	6	7	Hex	0.875 M FS
MRVMNC-9-7MM	1/4	Hex	M	8	7	Hex	0.875 R FS
MVMNC-9-7MM	1/4	Hex	M	8	7	Hex	0.875 M FS
MVMNC-61-10MM	1/4	Hex	M	1.625	10	Hex	1.25 M FS
MRSFVVMNC-58-10MM	1/4	Hex	M	3	10	Hex	1.75 R SF FS
MVMSFNC-62-10MM	1/4	Hex	M	4	10	Hex	1.75 M SF FS
MBVMNC-63-10MM	1/4	Hex	M	6	10	Hex	1.75 M B FS
MBVMNC-65-10MM	1/4	Hex	M	6	10	Hex	2 M B FS
MVMNC-60-10MM	1/4	Hex	M	6	10	Hex	1 M FS
MVMSFNC-60-10MM	1/4	Hex	M	6	10	Hex	1 M SF FS
SMVMNC-65-10MM	1/4	Hex	M	6	10	Hex	2 SM FS
VMNC-70-10MM	1/4	Hex	M	6	10	Hex	1.75 FS
MBVMNC-64-10MM	1/4	Hex	M	8	10	Hex	1.75 M B FS
VMNC-6-13MM	1/4	Hex	M	1.625	13	Hex	2 FS
MBVMNC-5-13MM	1/4	Hex	M	2	13	Hex	3.5 M B FS
MVMNC-1-15MM	1/4	Hex	M	1.625	15	Hex	2 M FS
VMNC-2-15MM	1/4	Hex	M	1.625	15	Hex	2 FS
VMNC-1-16MM	1/4	Hex	M	1.625	16	Hex	2 FS
VMNC-2-19MM	1/4	Hex	M	1.625	19	Hex	2 FS
VMNC-1-21MM	1/4	Hex	M	2	21	Hex	1.5 FS
VCNC-248-8MM	3/8						

*Features Abbreviations	ER Embedded Rare Earth Magnets	LC Limited Clearance	R Rare Earth Magnet	SF Surface Drive
B Bolt Clearance	M Magnetic	RE Retractable / Finder Sleeve	SM Strip Magnet	
DM Donut Magnet	ET Exposed Tip	P Pinned	TD Turned OD	
EC Extension Cover Only	FL Fast Lead	PC Partially Covered	RNT Removable Nylon Tip	U Universal (Swivel)
EM Embedded Magnets	FS Free Spinning	PF Press Fit	RT Recessed Tip	
	FT Flush to Tip		SB Shallow Broach	

Covered Socket with Extension Complete Assemblies – continued (Includes Tool and Anti-Mar Cover)

Complete Assembly Ordering Number	Extension				Socket				Cover Features*	
	Drive Size	Drive Type	Sex	Length (in.)	Opening Size	Opening Type	Length (in.)	Features*		
MVCNC-649-13MM	3/8	Square	F	6	13	Hex	2	M	FS	
MVCNUC-625-13MM	3/8	Square	F	6	13	Hex	1.5	M	FS	
MBVCNC-652-13MM	3/8	Square	F	8	13	Hex	2	M B	FS	
SMSFVCNC637-13M-NU	3/8	Square	F	8	13	Hex	2	SM SF	FS	
MBVCNC-654-13MM	3/8	Square	F	10	13	Hex	2	M B	FS	
MVCNC-646-13MM	3/8	Square	F	10	13	Hex	1.5	M	FS	
MBVCNC-653-13MM	3/8	Square	F	12	13	Hex	2	M B	FS	
MVCNC-650-13MM	3/8	Square	F	12	13	Hex	1.5	M	FS	
VCNC-653-13MM	3/8	Square	F	12	13	Hex	2		FS	
VCNC-239-14MM	3/8	Square	F	10	14	Hex	2		FS	
MBVCNC-135-15MM	3/8	Square	F	6	15	Hex	2	M B	FS	
VCSFNC-132-15MM-NA	3/8	Square	F	12	15	Hex	1.5	SF	FS	
DMVCSFNC-623-13MM	7/16	Square	F	3	13	Hex	1	DM SF	RE	
MBVNNC-1-13MM	7/16	Hex	M	8	13	Hex	2	M B	FS	
MRVNNC-1-15MM	7/16	Hex	M	6	15	Hex	3.25	R	FS	
MVENC-1-7MM	1/2	Square	F	1.5	7	Hex	1.25	M	FS	
MVENC-143-10MM	1/2	Square	F	1.5	10	Hex	1.25	M	FS	
MBRVENC-108-18MM	1/2	Square	F	8	18	Hex	2.25	R B	FS	
MRVENC-101-18MM	1/2	Square	F	20	18	Hex	1.5	R SF	FS	

Covered Socket with Extension & Adapter Complete Assemblies (Includes Tool and Anti-Mar Cover)

Complete Assembly Ordering Number	Adapter				Extension				Socket		Adapter Features*	Socket Features*	Cover Features*	
	Drive Size	Drive Type	Sex	Length (in.)	Drive Size	Drive Type	Sex	Length (in.)	Opening Size**	Opening Type	Length (in.)			
MRVANC-97-7MM	1/4	Square	F	1.5	1/4	Hex	M	6	7	Hex	0.875	QR	R	FS
MVCNC-760-10MM	3/8	Square	F	1.75	1/4	Hex	M	6	10	Hex	1	QR	M	FS
MBVCNC-763-10MM	3/8	Square	F	2	7/16	Hex	M	8	10	Hex	2	QR	B, M	FS
MVCNC-761-10MM	3/8	Square	F	2	7/16	Hex	M	8	10	Hex	1.25	QR	M	FS
VCNC-761-10MM	3/8	Square	F	2	7/16	Hex	M	8	10	Hex	1.25	QR		FS
RCSFNC-1314-9	3/8	Square	F	1.5	1/4	Hex	M	9	7/16	Hex	1.062	P	U, SF	EC, FS
RMSFNC-214-9	-	-	-	-	1/4	Hex	M	9	7/16	Hex	1.062	P	U, SF	EC, FS
RCNC-2616-9	3/8	Square	F	1.5	1/4	Hex	M	9	1/2	Hex	1	P	U	EC, FS
RCSFNC-2816-9	3/8	Square	F	1.5	1/4	Hex	M	9	1/2	Hex	1.062	P	U, SF	EC, FS

**Fractions represent inches. Integers represent metric (mm).

If you have an assembly application that requires special protection, simply fill out the appropriate attached "Quotation Worksheet" and fax it to your Apex Representative. Indicate that a nylon coating is needed. Or, you can visit our website at www.apex-tools.com and submit a "Quotation Worksheet" electronically. Either way, a quote will be generated promptly.

If you need more information or would like to have an Apex Representative contact you, please call Customer Service toll free at 1-800-845-5629.



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 83)



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.

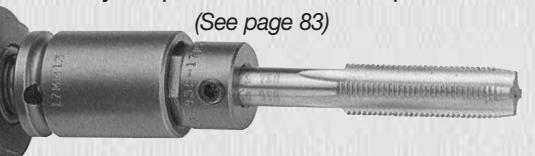
(See page 85)



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 83)



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 85)



Reversible Sockets for SAE Hex Head Sheet Metal Screws



Standard

Part Number	Hex Size	Overall Length	Outside Diameter	Roll Pin Part Number
SW-350	1/4	9/16	3/8	21-S-078-0375
SH-402	13/16	3/4	13/16	21-S-078-0750

Magnetic

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-400	3/8	1 1/8	11/16	21-S-078-0687

*Tapered Ends

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
SH-629-5	1/4	1/4	5
SH-629-6	1/4	1/4	6
SH-57	1/4	1/4	2
SH-57	1/4	1/4	Full Length Hex
SH-57-3	1/4	1/4	3
SH-57-4	1/4	1/4	4
SH-57-6	1/4	1/4	6
SH-57-8	1/4	1/4	8
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-414	1/4	1/2	2
SH-404	7/16	3/8	2

Tap Holding Sockets

Male Hex Drive, SAE



(Tap not included)

Part Number	Tap Size	Male Hex	Socket Length In.	Socket Diameter 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 In.	Socket Diameter In. mm
SJ-935-10M XM6	M6	10	15/16	24 5/8 16
SJ-935-12M XM8	M8	12	15/16	24 5/8 16
SJ-935-14M XM10	M10	14	1	25 21/32 17
SJ-935-17M XM8	M8	17	1	25 13/16 21
SJ-935-17M XM12	M12	17	1	25 13/16 21

Female Sq. Dr., SAE



Part Number	Tap Size	Female Square	Socket Length In.	Socket Diameter 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	6 Point Magnetic	Hex Size	Square Drive	Overall Length In.	Broach Depth In.	Magnet Depth 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-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 - -

#5 (1 5/8") Spline Drive

Extensions



Part Number	Overall Length In.	mm
EXL-15	15	381

Female spline to male spline

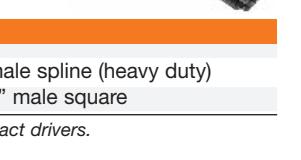
Adapters



Part Number
EXL-1000
EXL-1100

Female spline to 1" male square
Female spline to 1 1/2" male square

Universal Wrenches



Part Number	Hex Size	Square Drive	Overall Length 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-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

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

Socket Retaining Rings

Plastic Ring With Steel Insert



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

Metal 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

BOLDED part numbers are industry popular items and are followed by common variations which may vary in price and availability.

Adapters

#130-A Yankee Drive for Spiral Type Driver



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

#131-A Yankee Drive for Spiral Type Driver



Part Number	Male Square In.	Overall Length mm	Shank Diameter In.	mm
YK-501	1/2	2 5/16	.310	8.0

#135-A Yankee Drive for Spiral Type Driver



Part Number	Male Square In.	Overall Length mm	Shank Diameter In.	mm
YK-250	1/4	1 15/16	.215	5.5
YK-370	3/8	2 3/16	.215	5.5
YK-500	1/2	2 5/16	.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 & 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-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-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

Sockets with Male Hex



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

Socket & 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/	

Screwdriver Bit Quotation Worksheet

For quotation only. Not an order.

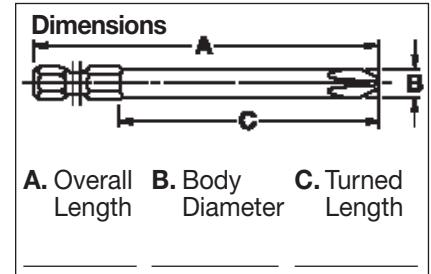
NAME _____ TITLE _____
COMPANY _____

ADDRESS _____ CITY _____ STATE _____ ZIP _____

E-MAIL _____ PHONE _____ FAX _____

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

- Drive Type** **Size**
- Hex Insert
 - Hex Power
 - Threaded
 - Female Square
 - Other _____



- Bit Holder Styles For Hex Insert Bits**
- Magnetic
 - O-Ring Retention
 - Standard (Retaining Groove)
 - Quick Release
 - Other _____

Nylon Covers Requirements:

Components To Be Covered

Cover Features

- Bit only
- Bit and Bit Holder
- Flush with tip of bit
- Exposed tip of bit
- Retractable
- Embedded magnets
- Press fit
- Free-spinning (able to spin independently of part being covered)
- O.D. limitations (must specify) _____
- Other considerations (must specify) _____

Sockets Quotation Worksheet

For quotation only. Not an order.

NAME _____ TITLE _____
COMPANY _____

ADDRESS _____ CITY _____ STATE _____ ZIP _____

E-MAIL _____ PHONE _____ FAX _____

Socket Type

- Type A (tapered)
- Type B (straight)
- Type C (shouldered)

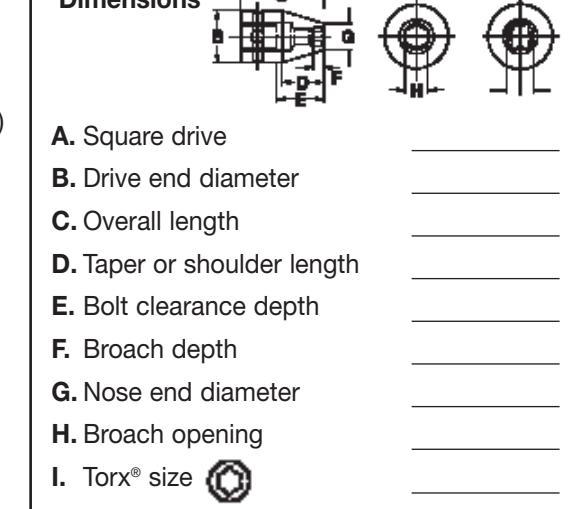
Broach Opening

- Hex
- Double Hex
- Square
- Double Square
- Fast Lead
- Surface Drive
- Torx®
- 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



Nylon Covers Requirements:

Components To Be Covered

- Socket only
- Socket and Extension
- Other _____

Extensions

Size

Hex Drive _____

Female Square _____

Other _____

Extension Length

No extension required

Additional Specifications _____

Quantity _____

Applied or Driving Torque _____

Cover Features

- Exposed tip of socket hex
- Recessed tip of socket hex
- Flush tip of socket hex
- Press fit
- Free-spinning (able to spin independently of part being covered)
- O.D. limitations (must specify) _____
- Other considerations (must specify) _____

Bit Holder Drive Types **Size**

- Hex Drive _____
- Female Square _____
- Other _____

Additional Specifications _____

Quantity _____

Applied or Driving Torque _____

Universal Wrench Quotation Worksheet

For quotation only. Not an order.

Name _____ Title _____

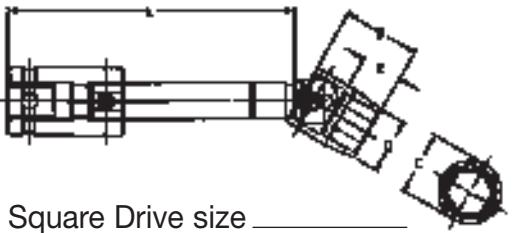
Company _____

Address _____

Phone _____ FAX _____

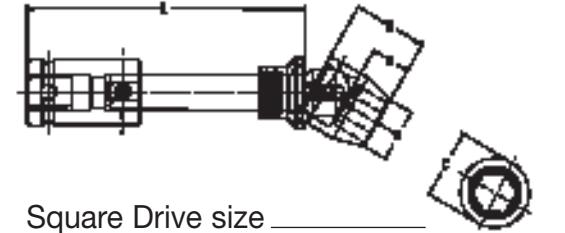
DIMENSIONS

Female square drive, standard type



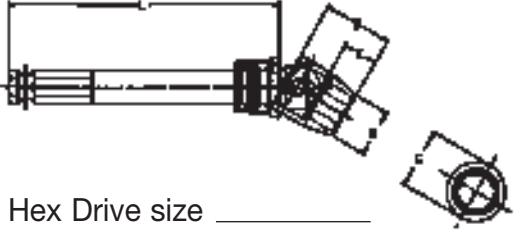
Square Drive size _____

Female square drive, tension type



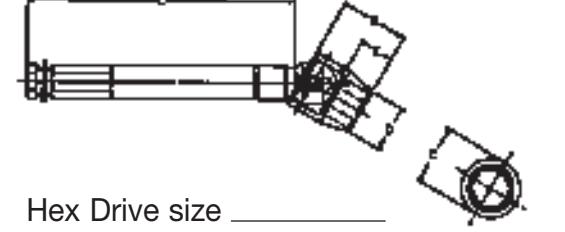
Square Drive size _____

Male hex drive, standard type



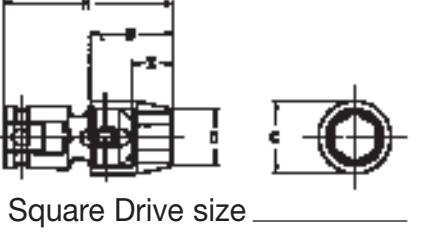
Hex Drive size _____

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 _____

Male square _____

{ Pin lock
 Ball lock
 Hole _____

Additional Specifications _____

Quantity _____

APPLIED or
DRIVING TORQUE _____

Part Number Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
01112	.67	11mm13-D	.44	13mm43-D	.44	170-3/8B	.21	1951-0X	.20	265-1	.21	3016	.40	320-20X	.7
10008S	.83	11mm15	.54	13mmE1	.79	170-3/8C	.22	1951-1X	.20	265-1/4	.22	3016-D	.40	320-2X	.7
10010S	.83	11mm15-D	.54	13mmE3	.91	170-4	.21	1951-2X	.20	265-10	.21	3018	.40	320-3X	.7
10015S	.83	11mm21	.37	14mm03	.44	170-5	.21	1951-3X	.20	265-2	.21	3018-D	.40	320-4X	.7
10016S	.83	11mm23	.44	14mm03-D	.44	170-5/16	.22	1953-1X	.20	265-3	.21	3020	.40	320-5X	.7
10017S	.83	11mm23-D	.44	14mm11	.37	170-5/16-ACR	.22	1953-2X	.20	265-4	.21	3020-D	.40	320-6X	.7
10019S	.83	11mm43	.44	14mm11-D	.37	170-5/16A	.22	1953-3X	.20	265-5	.21	3022	.40	3208	.40
10020S	.83	11mmE1	.38	14mm13	.44	170-5/16B	.21	19mm03	.44	265-5/16	.22	3022-D	.40	3208-D	.40
10025S	.83	1206	.35	14mm13-D	.44	170-5/8	.22	19mm03-D	.44	265-6	.21	3024	.40	3209	.40
10032S	.83	1206-D	.35	14mm15	.54	170-6	.21	19mm13	.44	265-8	.21	3024-D	.40	3210	.40
10034S	.83	1207	.35	14mm15-D	.54	170-6-ACR	.21	19mm13-D	.44	265A-0	.21	3028	.40	3210-D	.40
103-00X	.8	1208	.35	14mm21	.37	170-7/16	.22	19mm15	.54	265A-1	.21	3028-D	.40	3211	.40
103-1X	.8	1208-D	.35	14mm23	.44	170-7/16C	.22	19mm15-D	.54	265A-1/4	.22	309-00X	.8	3212	.40
103-2X	.8	1209	.35	14mm23-D	.44	170-8	.21	19mm23	.44	265A-10	.21	309-000X	.8	3212-D	.40
103-3X	.8	1209-D	.35	14mm43	.44	170-8-ACR	.21	19mm23-D	.44	265A-2	.21	309-1X	.8	3214	.40
103-4X	.8	1210	.35	14mm43-D	.44	170-8A	.22	19mm43	.44	265A-3	.21	309-2X	.8	3214-D	.40
103-5X	.8	1210-D	.35	1500-P	.53	170-9/16	.22	19mm43-D	.44	265A-3/8	.22	309-3X	.8	3216	.40
103-6X	.8	1211	.35	1510-P	.53	17mm03	.44	1E08	.35	265A-4	.21	309-4X	.8	3216-D	.40
10mm03	.44	1212	.35	15mm03	.44	17mm13	.44	1E10	.35	265A-5	.21	309-5X	.8	3218	.40
10mm03-D	.44	1212-D	.35	15mm03-D	.44	17mm13-D	.44	1P06	.36	265A-5/16	.22	309-6X	.8	3218-D	.40
10mm11	.37	1213	.35	15mm11	.37	17mm15	.54	1P07	.36	265A-6	.21	309-8X	.8	322-000LX	.9
10mm11-D	.37	1214	.35	15mm13	.44	17mm15-D	.54	1P08	.36	265A-7/16	.22	3108	.40	322-0LX	.9
10mm13	.44	1216	.35	15mm13-D	.44	17mm23	.44	1P10	.36	265A-8	.21	3108-D	.40	322-MX	.9
10mm13-D	.44	1216-D	.35	15mm15	.54	17mm23-D	.44	1P11	.36	26mm15	.54	3109	.40	3220	.40
10mm15	.54	1218	.35	15mm15-D	.54	17mm43	.44	1P12	.36	26mm15-D	.54	3110	.40	3220-D	.40
10mm15-D	.54	12mm03	.44	15mm21	.37	17mm43-D	.44	1P14	.36	273-0	.21	3110-D	.40	3222	.40
10mm21	.37	12mm03-D	.44	15mm21-D	.37	185-0X	.17	1P16	.36	273-1	.21	3111	.40	3222-D	.40
10mm21-D	.37	12mm11	.37	15mm23	.44	185-00X	.17	20mm03	.44	273-10	.21	3112	.40	3224	.40
10mm23	.44	12mm11-D	.37	15mm23-D	.44	185-000X	.17	20mm15	.54	273-2	.21	3112-D	.40	3224-D	.40
10mm23-D	.44	12mm13	.44	15mm33	.44	185-1.5mm	.17	212-0	.21	273-3	.21	3113	.40	3226	.40
10mm23-D	.44	12mm13-D	.44	15mm33-D	.44	185-10mm	.17	212-1	.21	273-4	.21	3113-D	.40	3226-D	.40
10mm33	.44	12mm15	.54	15mm43	.44	185-10X	.17	212-1/4A	.21	273-5	.21	3114	.40	3228	.40
10mm43	.44	12mm15-D	.54	15mm43-D	.44	185-1XX	.17	212-1/4A-ACR	.21	273-6	.21	3114-D	.40	3228-D	.40
10mm43-D	.44	12mm21	.37	1608	.36	185-2.5mm	.17	212-10A	.21	273A-1	.21	3116	.40	323-0X	.7
10mmE1	.38	12mm23	.44	1608-D	.36	185-2mm	.17	212-10	.21	273A-2	.21	3117	.40	323-000X	.7
1105	.35	12mm43	.44	1612-D	.36	185-3mm	.17	212-2	.21	273A-3	.21	3118	.40	323-1X	.7
1106	.35	12mm43-D	.44	16mm03	.44	185-3X	.17	212-3	.21	273A-4	.21	3119	.40	323-2X	.7
1106-D	.35	12mmE1	.38	16mm03-D	.44	185-4-X	.17	212-3/8A	.21	273A-6	.21	3120	.40	323-20X	.7
1107	.35	1308	.35	16mm11	.37	185-4mm	.17	212-4	.21	273A-8	.21	3120-D	.40	323-3X	.7
1107-D	.35	1308-D	.35	16mm13	.44	185-4X	.17	212-5	.21	273B-0	.21	3122	.40	323-4X	.7
1108	.35	1310	.35	16mm1											

Part Number Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
326-00X	7	3414-D	.40	440-1-ACR1X	.1	440-FX	.15	446-12X	.1	480-TX-45X	.10	49-B-TX-15	.11	491-AX	.4
326-000X	7	3416	.40	440-1-ACR1-DX	.1	440-TSQ-10M	.24	446-1X	.1	480-TX-50-H	.10	49-B-TX-15-H	.11	491-B-PZDX	.13
326-1X	7	3416-D	.40	440-1-ACR1-RX	.1	440-TSQ-4M	.24	446-2-ACR2-DX	.1	480-TX-50X	.10	49-B-TX-15-W	.11	491-B-SFX	.14
326-2X	7	3418	.40	440-1-PZDX	.13	440-TSQ-5M	.24	446-2-PZDX	.13	480-TX-55-H	.10	49-B-TX-20	.11	491-B-FBX	.15
326-20X	7	3418-D	.40	440-1-SFX	.14	440-TSQ-6M	.24	446-2-SFX	.14	480-TX-55X	.10	49-B-TX-20-H	.11	491-BX	.2
326-3X	7	3420	.40	440-10IPX	.12	440-TSQ-8M	.24	446-215X	.1	482X	.2	49-B-TX-20-W	.11	491-C-PZDX	.13
326-4X	7	3420-D	.40	440-10IPRX	.12	440-TX-05X	.10	446-215T	.1	483X	.2	49-B-TX-25	.11	491-C-SFX	.14
326-5X	7	3424	.40	440-115X	.1	440-TX-06X	.10	446-22X	.1	484X	.2	49-B-TX-27	.11	491-CCX	.2
326-6X	7	3424-D	.40	440-12X	.1	440-TX-07-H	.10	446-225T	.1	485-1X	.7	49-B-TX-30	.11	491-CFX	.15
327-0X	7	3426	.40	440-125X	.1	440-TX-07X	.10	446-227X	.1	485-2X	.7	49-B-TX-30-W	.11	491-CX	.2
327-00X	7	3428	.40	440-13X	.1	440-TX-08-H	.10	446-23T	.1	485-3X	.7	49-B-TX-40	.11	491-FX	.15
327-000X	7	3430	.40	440-15IPX	.12	440-TX-08X	.10	446-27X	.1	485-4X	.7	49-C-TX-07	.11	491-PZDX	.13
327-1X	7	3430-D	.40	440-15IPRX	.12	440-TX-09-H	.10	446-2I	.1	485-5X	.7	49-C-TX-08	.11	491-SFX	.14
327-2X	7	3432	.40	440-1X	.1	440-TX-09X	.10	446-2X	.1	485-6X	.10	49-C-TX-09	.11	491-AX	.2
327-20X	7	3434	.40	440-2-ACR2-DX	.1	440-TX-10-H	.10	446-FX	.15	485-7X	.7	49-C-TX-10	.11	491-BX	.2
327-3X	7	3510	.41	440-2-ACR2-RI	.1	440-TX-10-W	.10	451X	.2	488	.25	49-C-TX-15	.11	491-CX	.2
327-4X	7	3511	.41	440-2-ACR2-RX	.1	440-TX-10X	.10	452X	.2	49-10IPX	.12	49-C-TX-20	.11	4910X	.2
327-5X	7	3512	.41	440-2-ACR2X	.1	440-TX-15-125	.10	453X	.2	49-10IPRX	.13	49-C-TX-20-H	.11	491X	.2
327-6	.10	3512-D	.41	440-2-PZDX	.13	440-TX-15-H	.10	460	.25	49-15IPX	.12	49-C-TX-25	.11	492-27X	.2
328-0X	7	3514	.41	440-2-SFX	.14	440-TX-15-W	.10	48-TSQ-10M	.24	49-15IPRX	.13	49-C-TX-27	.11	492-A-27X	.2
328-00X	7	3514-D	.41	440-20IPX	.12	440-TX-15X	.10	48-TSQ-12M	.24	49-20IPX	.12	49-C-TX-30	.11	492-A-ACR2-DX	.2
328-000X	7	3516	.41	440-20IPRX	.12	440-TX-20-125	.10	48-TSQ-14M	.24	49-20IPRX	.13	49-C-TX-40	.11	492-A-ACR2X	.2
328-1X	7	3516-D	.41	440-215-PZDX	.13	440-TX-20-2	.10	48-TSQ-5M	.24	49-25IPX	.12	49-TSQ-10M	.24	492-A-PZDX	.13
328-2X	7	3518	.41	440-215-SFX	.14	440-TX-20-H	.10	48-TSQ-6M	.24	49-25IPRX	.13	49-TSQ-12M	.24	492-A-SFX	.14
328-20X	7	3518-D	.41	440-215X	.1	440-TX-20-W	.10	48-TSQ-8M	.24	49-27IPX	.12	49-TSQ-4M	.24	492-ACR2-DX	.2
328-3X	7	3524	.41	440-22-ACR2X	.1	440-TX-20X	.10	48-TX-45	.11	49-27IPRX	.13	49-TSQ-5M	.24	492-ACR2-RX	.2
328-4X	7	3524-D	.41	440-22-ACR2-DX	.1	440-TX-25-H	.10	48-TX-50	.11	49-30IPX	.12	49-TSQ-6M	.24	492-ACR2X	.2
328-5X	7	3530	.41	440-22-ACR2-RX	.1	440-TX-25-W	.10	48-TX-55	.11	49-30IPRX	.13	49-TSQ-8M	.24	492-AFX	.15
328-6X	7	3532	.41	440-22-PZDX	.13	440-TX-25X	.10	480	.25	49-40IPX	.12	49-TX-05	.11	492-AI	.2
328-LX	9	3534	.41	440-22-SFX	.14	440-TX-27-H	.10	480-1X	.1	49-40IPRX	.13	49-TX-06	.11	492-AX	.2
328-MX	9	3607	.42	440-225-SFX	.14	440-TX-27-W	.10	480-1-PZDX	.13	49-A-10IPX	.12	49-TX-07	.11	492-B-27X	.2
328-PX	9	3608	.42	440-225X	.1	440-TX-27X	.10	480-2-ACR2-RX	.1	49-A-15IPX	.12	49-TX-08	.11	492-B-ACR2-DX	.2
328-RX	9	3609	.42	440-22X	.1	440-TX-30-H	.10	480-2-ACR2X	.1	49-A-20IPX	.12	49-TX-08-W	.11	492-B-ACR2X	.2
328-SX	9	3609-D	.42	440-23X	.1	440-TX-30-W	.10	480-2-PZDX	.13	49-A-25IPX	.12	49-TX-09	.11	492-B-PZDX	.13
3308	.40	3610	.42	440-24X	.1	440-TX-30X	.10	480-2-SF	.14	49-A-27IPX	.12	49-TX-10	.11	492-B-SFX	.14
3310	.40	3610-D	.42	440-255X	.1	440-TX-40-H	.10	480-22X	.1	49-A-30IPX	.12	49-TX-10-H	.11	492-BFX	.15
3310-D	.40	3612	.42	440-25IPX	.12	440-TX-40-W	.10	480-225X	.1	49-A-TX-05	.11	49-TX-10-W	.11	492-BI	.2
3311	.40	3612-D	.42	440-25IPRX	.12	440-TX-40I	.10	480-24X	.1	49-A-TX-06	.11	49-TX-15	.11	492-BX	.2
3312	.40	3614	.42	440-26X	.1	440-TX-40X	.10	480-2X	.1	49-A-TX-07	.11	49-TX-15-H	.11	492-C-27X	.2
3312-D	.40	3614-D	.42	440-27X	.1	440-TX-45X	.10	480-3-ACR3X	.1	49-A-TX-08	.11	49-TX-15-W	.11	492-C-ACR2-DX	.2
3314	.40	3616	.42	440-27IPX	.12	440-TX-50X	.10	480-3-PZDX	.13	49-A-TX-09	.11	49-TX-20	.11	492-C-PZDX	.13
3314-D	.40	3616-D	.42	440-27IPRX	.12	445-0-15X	.7	480-325X	.1	49-A-TX-10	.11	49-TX-20-5	.11	492-C-SFX	.14
3316	.40	3618	.42	440-2I	.1	445-00X	.7	480-34X	.1	49-A-TX-10-H	.11	49-TX-20-W	.11	492-CC-27X	.2
3316-D	.40	3618-D	.42	440-2X	.1	445-00-15X	.7	480-3X	.1	49-A-TX-15	.11	49-TX-25	.11	492-CGX	.2
3318	.40	3620	.42	440-3-ACR3X	.1	445-000X	.7	480-4-ACR4X	.1	49-A-TX-15-H	.11	49-TX-25-W	.11	492-CFX	.15
3318-D	.40	3624	.42	440-3-ACR3-DX	.1	445-0X	.7	480-425X	.1	49-A-TX-15-W	.11	49-TX-27	.11	492-Cl	.2
3320	.40	3E10	.42	440-3-ACR3-RX	.1	445-1-15X	.7	480-4BNX	.1	49-A-TX-20	.11	49-TX-27-W	.11	492-CX	.2
3320-D	.40	3E11	.42</												

Part Number Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
AN-09	.18	CMS-3512	.47	EX-370-10	.29	EX-500-B-3	.30	FL-1112	.35	HC-100-1/2	.82	KA-45-9	.43	KC-27-3	.31
AN-10	.18	CMS-3518	.47	EX-370-2	.29	EX-500-B-6	.30	FL-1114	.35	HC-100-1/4	.82	KA-6-10m-4	.46	KC-27-6	.31
AN-10-6	.18	DB-08	.27	EX-370-3	.29	EX-500-B-4	.30	FL-1116	.35	HC-100-10	.82	KA-6-10m-6	.46	KC-28-3	.31
AN-10mm	.18	DB-10	.27	EX-370-4	.29	EX-501-10	.30	FL-1212	.35	HC-100-3/4	.82	KA-6-10m-9	.46	KC-28-6	.31
AN-12	.18	DB-12	.27	EX-370-5	.29	EX-501-12	.30	FL-1214	.35	HC-100-3/8FS	.82	KA-7-11m-12	.46	KC-29-3	.31
AN-12-6	.18	DMVCSFNC-623-13MM		EX-370-6	.29	EX-501-15	.30	FL-1216	.35	HC-100-5/16	.82	KA-7-12m-12	.46	KC-29-6	.31
AN-12mm	.18		.80	EX-370-8	.29	EX-501-2	.30	FL-3012	.41	HC-100-5/8	.82	KA-7-12m-4	.46	KC-30-3	.31
AN-14mm	.18	EX-1005	.67	EX-370-B	.29	EX-501-3	.30	FL-3014	.41	HC-100-7/16	.82	KA-7-12m-6	.46	KC-30-4	.31
AN-14mm-6	.18	EX-1005-B	.67	EX-370-B-10	.29	EX-501-4	.30	FL-3016	.41	HC-3520	.40	KA-7-12m-9	.46	KC-30-6	.31
AN-16	.18	EX-250	.29	EX-370-B-2	.29	EX-501-5	.30	FL-3018	.41	HC-3816	.40	KA-7-13m-12	.46	KC-30-9	.31
AN-16-6	.18	EX-250-12	.29	EX-370-B-3	.29	EX-501-6	.30	FL-3022	.41	HCNC-1130-D	.73	KA-7-13m-3	.46	KC-5-7m-4	.31
AN-3mm	.18	EX-250-2	.29	EX-370-B-4	.29	EX-501-8	.30	FL-3024	.41	HCNC-13014	.77	KA-7-13m-4	.46	KC-5-7m-6	.31
AN-4mm	.18	EX-250-3	.29	EX-370-B-6	.29	EX-501-B-10	.30	FL-3110	.41	HCNC-13414	.77	KA-7-13m-6	.46	KC-6-10m-12	.31
AN-5mm	.18	EX-250-4	.29	EX-370-B-8	.29	EX-501-B-12	.30	FL-3112	.41	HCNC-20918	.77	KA-7-13m-9	.46	KC-6-10m-3	.31
AN-6mm	.18	EX-250-5	.29	EX-371	.29	EX-501-B-2	.30	FL-3114	.41	HCNC-22512	.77	KA-7-14m-6	.46	KC-6-10m-4	.31
AN-8mm	.18	EX-250-6	.29	EX-371-10	.29	EX-501-B-3	.30	FL-3116	.41	HCNC-2424	.77	KA-8-15m-12	.46	KC-6-10m-6	.31
AP-08	.18	EX-250-8	.29	EX-371-12	.29	EX-501-B-4	.30	FL-3118	.41	HE-100-1/2	.82	KA-8-15m-3	.46	KC-6-10m-9	.31
AP-10	.18	EX-250-B	.29	EX-371-15	.29	EX-501-B-5	.30	FL-3120	.41	HE-100-1/4	.82	KA-8-15m-9	.46	KC-6-8m-3	.31
AP-12	.18	EX-250-B-12	.29	EX-371-2	.29	EX-501-B-6	.30	FL-3122	.41	HE-100-3/4	.82	KAM-37-3	.48	KC-6-8m-4	.31
AP-16	.18	EX-250-B-2	.29	EX-371-2 3/4	.29	EX-501-B-8	.30	FL-3124	.41	HE-100-3/8FS	.82	KAM-38-6	.48	KC-6-8m-6	.31
AP-18	.18	EX-250-B-3	.29	EX-371-3	.29	EX-502	.30	FL-3210	.42	HE-100-5/16	.82	KB-10-19m-6	.31	KC-6-9m-6	.31
AP-20	.18	EX-250-B-4	.29	EX-371-4	.29	EX-502-3	.30	FL-3212	.42	HE-100-5/8	.82	KB-104-6	.31	KC-7-11m-6	.31
AP-24	.18	EX-250-B-5	.29	EX-371-5	.29	EX-502-5	.30	FL-3214	.42	HE-100-7/16	.82	KB-105-3	.31	KC-7-12m-3	.31
APH35M	.19	EX-250-B-6	.29	EX-371-6	.29	EX-502-6	.30	FL-3216	.42	HE-1028	.49	KB-202-12	.31	KC-7-12m-6	.31
APH38	.19	EX-250-B-8	.29	EX-371-8	.29	EX-502-8	.30	FL-3218	.42	HE-1028-D	.49	KB-202-6	.31	KC-7-12m-9	.31
APH56	.19	EX-251	.29	EX-371-B-3	.29	EX-502-B	.30	FL-3220	.42	HE-530	.49	KB-203-12	.31	KC-7-13m-3	.31
APH56M	.19	EX-251-10	.29	EX-372	.39	EX-502-B-3	.30	FL-3312	.42	HFSF-14424	.78	KB-203-9	.31	KC-7-13m-6	.31
APS312LM	.46	EX-251-2	.29	EX-372-B	.39	EX-502-B-4	.30	FL-3314	.42	HGSF-13824-A	.78	KB-205-12	.31	KC-7-13m-9	.31
APS312M	.46	EX-251-3	.29	EX-374	.48	EX-503	.48	FL-3316	.42	HGSFNC-14524	.78	KB-205-6	.31	KCM-25-B-6	.85
APS38	.43	EX-251-6	.29	EX-374-B	.48	EX-503-B	.48	FL-3318	.42	HGSFNC-3028	.78	KB-317-9	.31	KCM-37-6	.85
APS38L	.43	EX-251-8	.29	EX-376-10	.48	EX-507-2	.48	FL-3320	.42	HT-848	.83	KB-318-12	.31	KD-103-6	.43
APS58XL	.52	EX-251-B	.29	EX-376-12	.48	EX-507-3	.48	FL-3324	.42	HTN-B-1	.24	KB-320-6	.31	KD-104-12	.43
APU37	.43	EX-251-B-2	.29	EX-376-15	.48	EX-507-4	.48	FL-3326	.42	HTN-B-2	.24	KB-321-6	.31	KD-105-3	.43
APU37M	.46	EX-252	.39	EX-376-18	.48	EX-507-6	.48	FL-3410	.41	HTN-B-3	.24	KB-322-3	.31	KD-105-6	.43
APU56	.52	EX-252-B	.39	EX-376-2	.48	EX-507-B-3	.48	FL-3412	.41	HTN-B-4	.24	KB-322-6	.31	KD-205-6	.43
AS-12	.17	EX-254	.48	EX-376-3	.48	EX-507-B-4	.48	FL-3414	.41	HTS-0	.24	KB-43-6	.31	KD-43-6	.43
AW-95	.28	EX-254-B	.48	EX-376-4	.48	EX-507-B-6	.48	FL-5114	.50	HTS-1	.24	KB-45-3	.31	KD-44-6	.43
AW-95-L	.28	EX-255-10	.39	EX-376-5	.48	EX-512-2	.30	FL-5116	.50	HTS-10	.24	KB-45-4	.31	KD-45-6	.43
AW-95-LL	.28	EX-255-12	.39	EX-376-6	.48	EX-512-3	.30	FL-5118	.50	HTS-12	.24	KB-6-10m-6	.31	KD-6-10m-12	.46
BNAE-3mm	.15	EX-255-14	.39	EX-376-8	.48	EX-512-B-2	.30	FL-5120	.50	HTS-2	.24	KB-7-11m-6	.31	KD-6-10m-6	.46
BNAE-4mm	.15	EX-255-2	.39	EX-376-9	.48	EX-512-B-4	.30	FL-5122	.50	HTS-3	.24	KB-7-13m-12	.31	KD-6-10m-9	.46
BNAE-4mm-ACR	.15	EX-255-3	.39	EX-376-B-10	.48	EX-620-3	.30	FL-5124	.50	HTS-3A	.24	KB-7-13m-3	.31	KD-7-11m-12	.46
BNAE-5mm	.15	EX-255-4	.39	EX-376-B-12	.48	EX-620-6	.30	FL-5126	.50	HTS-4	.24	KB-7-13m-6	.31	KD-7-11m-6	.46
BNAE-5mm-ACR	.15	EX-255-6	.39	EX-376-B-15	.48	EX-621-3	.30	FL-5128	.50	HTS-4A	.24	KB-7-13m-9	.31	KD-7-12m-12	.46
BNAE-6mm	.15	EX-255-8	.39	EX-376-B-2	.48	EX-621-6	.30	FL-5130	.50	HTS-5	.24	KB-7-14m-6	.31	KD-7-12m-6	.46
BNAE-6mm-ACR	.15	EX-255-B	.39	EX-376-B-3	.48	EX-621-8	.30	FL-5132	.50	HTS-6	.24	KB-7-15m-12	.31	KD-7-12m-9	.46
BNAE-8mm	.15	EX-255-B-4	.39	EX-376-B-4	.48	EX-621-B-3	.30	FL-5134	.50						

Part Number Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	
MRVFSFNC-115-19MM	83	MZA-514	.83	NCEJXXM-S0875C	.73	OS-8mm13	.44	RMBVCNC-727-10MM	.79	SA-306	.43	SD-556	.2			
.....78		MZN-312	.83	NCEJXXM-S0875-1500	NCS0500A0875D	.73	OSM-3410	.41	.....79	SA-316	.52	SD-556-A	.2		
MRVFSFNC-18-21MM	83	MZN-314	.8374	NCS0500A0875E	.73	OSM-3414	.41	RMBVCNC-728-10MM	.79	SA-317	.52	SF-10mm03	.45		
.....78		MZN-514	.83	NCEJXXM-S0875-2000	NCS0500A1000A	.73	OSMB-10mm21	.37	.....79	SA-318	.52	SF-10mm11	.37		
MRVMNC-9-7MM	.79	NCEAXXM-S0500-0875	.....74	NCS0500A1000B	.73	OSMB-10mm23	.45	RMBVFNSFNC-18-21MM	.....79	SA-318-D	.52	SF-10mm13	.45		
MRVNNC-1-15MM	.80	NCEKXXM-S0625-1250	.....73	NCS0500A1000C	.73	OSMB-8mm23	.45	.....78	SA-320	.52	SF-10mm21	.37			
MSFVNC-652-13MM	.....79	NCEAXXM-S0500-1000	.....74	NCS0500A1000D	.73	OSSF-10mm23	.45	RMBVGFSFNC-53-21MM	.....78	SA-321	.52	SF-10mm23	.45		
.....73		NCEKXXM-S0752-0875	NCS0500A1750A	.73	OSSF-10mm43	.45	.....78	SA-321-D	.52	SF-10mm33	.45				
MSH-335	.50	NCEAXXM-S0500-1750	.....74	NCS0500A1750B	.73	OSSF-3512	.42	RMSFNC-214-9	.80	SA-322	.52	SF-10mm43	.45		
MSH-336	.50	.....73	NCEKXXM-S0752-1252	NCS0500A1750C	.73	OSSF-3514	.42	RP-520	.19	SA-322-D	.52	SF-1112	.35		
MSH-400	.82	NCEAXXM-S0563-1000	.....74	NCS0563A1000A	.73	OSSF-8mm23	.45	RP-720	.19	SA-36-10m	.46	SF-1116	.35		
MSW-343	.41	.....73	NCEKXXM-S0752-1500	NCS0626A1000A	.73	P-1408	.20	RP-728	.19	SA-37-12m	.46	SF-11mm13	.45		
MSW-350	.82	NCEAXXM-S0626-1000	.....74	NCS0626A1750A	.73	P-1409	.20	RP-820	.19	SA-37-13m	.46	SF-11mm23	.45		
MSW-604	.40	.....73	NCEKXXM-S0752-2000	NCS0752B0875A	.73	P-1410	.20	RP-828	.19	SA-37-14m	.46	SF-11mm43	.45		
MSW-90	.82	NCEAXXM-S0626-1750	.....74	NCS0752B0875B	.73	P-1412	.20	RP-848	.19	SA-38-15m	.46	SF-12mm03	.45		
MSW-90-B	.....82	.....73	NCEKXXM-S0813-0875	NCS0752B0875C	.73	P-1414	.20	S-32-TX-30	.11	SA-38-17m	.46	SF-12mm13	.45		
MSW-984-B	.....82	NCEBXF-S0500-0875	.....74	NCS0752B1252A	.73	P-1416	.20	S-320	.9	SA-38-18m	.46	SF-12mm21	.37		
MVC-610-13MM	.78	.....73	NCEKXXM-S0813-1500	NCS0752B1252B	.73	P-2010	.20	S-321X	.9	SA-402	.52	SF-12mm23	.45		
MVCNC-53-7MM	.77	NCEBXXF-S0500-1000	.....74	NCS0752B1252C	.73	P-2012	.20	S-328	.9	SA-402-D	.52	SF-12mm43	.45		
MVCNC-646-13MM	.80	.....73	NCEKXXM-S0813-2000	NCS0752B1252D	.73	P-2014	.20	SA-120	.43	SA-404	.52	SF-13mm03	.45		
MVCNC-648-13MM	.79	NCEBXXF-S0500-1750	.....74	NCS0752B1500A	.73	P-2016	.20	SA-120-D	.43	SA-404-D	.52	SF-13mm11	.37		
MVCNC-649-13MM	.80	.....73	NCEKXXM-S0813-3500	NCS0752B1500B	.73	P-320X	.9	SA-122	.43	SA-406	.52	SF-13mm13	.45		
MVCNC-650-13MM	.80	NCEAXXM-S0500-0875	.....74	NCS0752B1500C	.73	P-322X	.9	SA-122-D	.43	SA-407	.52	SF-13mm21	.37		
MVCNC-702-10MM	.79	.....74	NCEKXXM-S0813-1500	NCS0752B2000A	.73	P-328	.9	SA-123	.43	SA-409	.52	SF-13mm23	.45		
MVCNC-702-10MM-NA	.....79	NCEAXXM-S0500-1000	.....74	NCS0752B2000B	.73	QR-108	.26	SA-123-D	.43	SA-409-D	.52	SF-13mm33	.45		
MVCNC-702-10MM-NU	.....79	NCEKXXM-S0813-2000	.....74	NCS0752B2000C	.73	QR-308	.26	SA-124	.43	SA-410	.52	SF-13mm43	.45		
MVCNC-702-10MM-NU	.....79	NCEAXXM-S0500-1750	.....74	NCS0813B0875A	.73	QR-314	.26	SA-124-D	.43	SA-411	.52	SF-14mm13	.45		
MVCNC-710-10MM	.79	NCEAXXM-S0563-100074	NCEMXF-S0625-1250	NCS0813B1500A	.73	QR-508	.26	SA-125	.43	SA-501	.52	SF-15mm03	.45		
MVCNC-734-10MM	.78	.....74	NCEMXF-S0752-0875	NCS0813B2000A	.73	QR-514	.26	SA-125-D	.43	SA-505	.52	SF-15mm11	.37		
MVCNC-746-10MM	.79	NCEAXXM-S0626-1000	.....74	NCS0813B3500A	.73	QR-614	.26	SA-15-6m	.38	SA-508	.52	SF-15mm13	.45		
MVCNC-748-10MM	.79	NCEMXF-S0752-1252	.....74	NCS0875B1500A	.73	QR-620	.26	SA-16-10m	.38	SA-65	.36	SF-15mm33	.45		
MVCNC-750-10MM	.79	NCEAXXM-S0626-1750	.....74	NCS0875B2000A	.73	QR-714	.26	SA-16-8m	.38	SC-108	.26	SF-15mm43	.45		
MVCNC-752-10MM	.79	.....74	NCEMXF-S0752-1500	NCS0938C1500A	.73	QR-720	.26	SA-200	.43	SC-114	.26	SF-16mm13	.45		
MVCNC-755-10MM	.79	NCEBXXF-S0500-0875	.....74	NCS0938C1500B	.73	QR-820	.26	SA-201	.43	SC-308	.26	SF-17mm03	.45		
MVCNC-756-10MM	.79	NCEMXF-S0752-2000	.....74	NCS0938C1500C	.73	QR-824	.26	SA-202	.43	SC-314	.19,26,43,46	SF-17mm13	.45		
MVCNC-759-10MM	.79	NCEBXXF-S0500-1000	.....74	NCS0938C1500D	.73	QR-M-490-2	.25	SA-202-D	.43	SC-508	.26	SF-17mm23	.45		
MVCNC-760-10MM	.....79	NCEMXF-S0813-0875	.....74	NCS0938C2250A	.73	QR-M-490-200M	.25	SA-203	.43	SC-514	.18,19,26,53	SF-17mm43	.45		
MVCNC-761-10MM	.80	NCEBXXF-S0500-1750	.....74	NCS0938C2250B	.73	QR-M-490-A	.25	SA-203-D	.43	SC-520	.18,26,53	SF-18mm13	.45		
MVCNC-766-10MM	.79	.....74	NCEMXF-S0813-1500	NCS0938C2250C	.73	QR-M-490-A6	.25	SA-205	.43	SC-529	.53	SF-18mm23	.45		
MVCNCNU-625-13MM80	NCEBXXF-S0563-100074	NCEMXF-S0813-2000	NCS0938C3250A	.73	QRA-08	.26	SA-205-D	.43	SC-614	.26	SF-18mm43	.45		
MVENC-1-7MM	.80	NCEBXXF-S0626-100074	NCEMXF-S0813-3500	NCS0938C3250B	.73	QRA-14	.26	SA-216	.52	SC-620	.26	SF-19mm13	.45		
MVENC-143-10MM	.8074	NCEBXXF-S0626-175074	NCS1000C1500A	.73	QRF-08	.26	SA-216-D	.52	SC-720	.19,26	SF-19mm23	.45		
MVFNC-99-19MM	.78	NCEBXXF-S0626-1750	.....74	NCS1000C1500D	.73	QRF-20	.26	SA-217-D	.52	SC-728	.26	SF-3010	.41		
MVMNC-1-15MM	.79	.....74	NCEMXF-S0813-1500	NCS1000C1500B	.73	R-32-TX-27	.11	SA-218	.52	SC-820	.19,26	SF-3012	.41		
MVMNC-60-10MM	.79	NCEJXXM-S0625-1250	.....74	NCS1000C1500C	.73	R-320X	.9	SA-218-D	.52	SC-828	.26	SF-3014	.41		
MVMNC-61-10MM79	NCEMXF-S0813-200074	NCS1000C1500D	.73	R-322X	.9	SA-219	.52	SD-1055-A	.1	SF-3016	.41			
MVMNC-8-7MM	.79	NCEJXXM-S0752-087574	NCS1126C1500A	.73	R-321	.									

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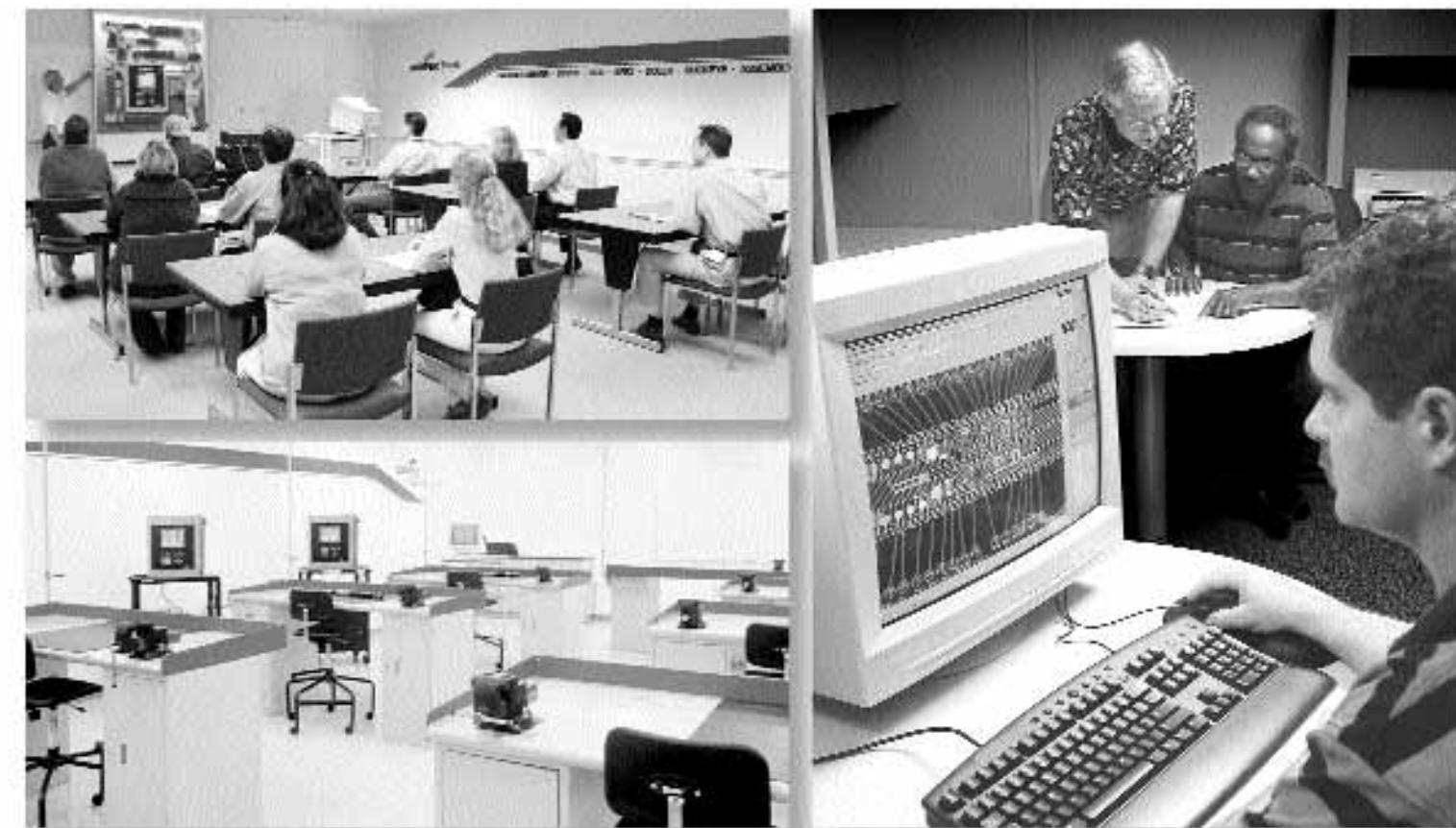
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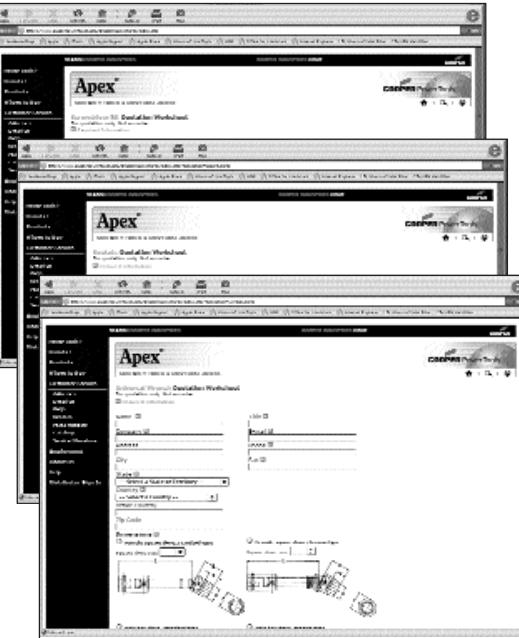
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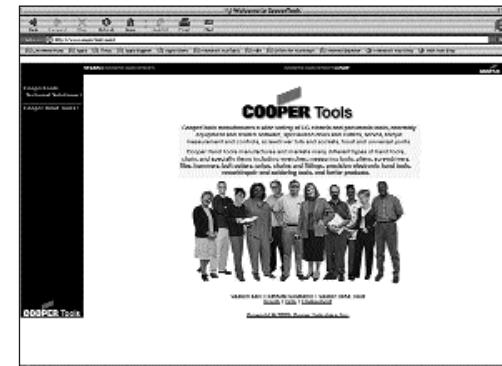
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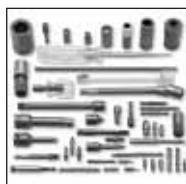
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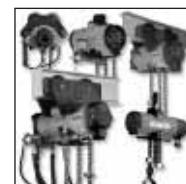


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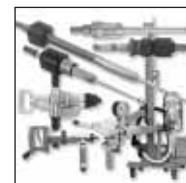


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