

Phillips Bits +

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		Turned Length (A)		Turned OD (B)	
		In.	mm	In.	mm	In.	mm
446-0X	0	1	25	7/16	11	0.170	4.06
446-1X	1	1	25	7/16	11	0.170	4.06
446-12X	1	2	51	7/16	11	0.170	4.06
SD-1055-A	1	2	51	1 3/8	35	0.170	4.06
446-2X	2	1	25	7/16	11	0.170	4.06
446-2I	2	1	25	7/16	11	0.170	4.06
446-215X	2	1 1/2	38	7/16	11	0.170	4.06
446-22X	2	2	51	7/16	11	0.170	4.06
446-215T	2	1 1/2	38	1	25	0.170	4.06
446-22TX	2	2	51	1 1/2	38	0.170	4.06
446-225T	2	2 1/2	64	1 3/4	44	0.170	4.06
446-23T	2	3	76	2 1/4	57	0.170	4.06
446-27X*	2	1	25	7/16	11	0.170	4.06

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

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	Limited Clearance
440-22-ACR2-RX	2	2	51	
440-22-ACR2-DX	2	2	51	
440-22-ACR2X	2	2	51	
440-3-ACR3-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	Large body
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



Phillips Bits

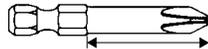
5/16" Square Insert Bits



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



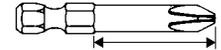
1/4" Hex Power Drive



Part Number	Point Size	Overall Length		Body Diameter		Turned Length	
		In.	mm	In.	mm	In.	mm
4910X	0	1 15/16	49	1/8	3.2	1 1/4	32
4910-AX	0	2 3/4	70	1/8	3.2	2	51
4910-BX	0	3 1/2	89	1/8	3.2	2 3/4	70
4910-CX	0	6	152	1/8	3.2	2	51
491X	1	1 15/16	49	3/16	4.8	1 1/4	32
491-AX	1	2 3/4	70	3/16	4.8	2	51
491-BX	1	3 1/2	89	3/16	4.8	2 3/4	70
491-CX	1	6	152	3/16	4.8	2	51
491-CCX	1	6	152	3/16	4.8	5 1/4	133
492X	2	1 15/16	49	1/4	6.4	1 1/4	32
492I	2	1 15/16	49	1/4	6.4	1 1/4	32
492-AX	2	2 3/4	70	1/4	6.4	2	51
492-AI	2	2 3/4	70	1/4	6.4	2	51
492-BX	2	3 1/2	89	1/4	6.4	2 3/4	70
492-BI	2	3 1/2	89	1/4	6.4	2 3/4	70
492-CX	2	6	152	1/4	6.4	2	51
492-CI	2	6	152	1/4	6.4	2	51
492-200MM	2	7 13/16	200	1/4	6.4	7	178
SD-2052-8	2	8	203	9/32	7.1	7	178
SD-2052-10	2	10	254	9/32	7.1	9	229
492-CCX	2	6	152	1/4	6.4	5 1/4	133
492-27X*	2	1 15/16	49	1/4	6.4	1 1/4	32
492-A-27X*	2	2 3/4	70	1/4	6.4	2	51
492-B-27X*	2	3 1/2	89	1/4	6.4	2 3/4	70
492-C-27X*	2	6	152	1/4	6.4	2	51
492-CC-27X*	2	6	152	1/4	6.4	5 1/4	133
493X	3	1 15/16	49	5/16	7.9	1	25
493-AX	3	2 3/4	70	5/16	7.9	1 3/4	44
493-BX	3	3 1/2	89	5/16	7.9	2 1/2	64
493-CX	3	6	152	5/16	7.9	5	127
4930X	3	1 15/16	49	1/4	6.4	1 1/4	32
4930-AX	3	2 3/4	70	1/4	6.4	2	51
4930-BX	3	3 1/2	89	1/4	6.4	2 3/4	70
4930-CX	3	6	152	1/4	6.4	2	51
4930-CCX	3	6	152	1/4	6.4	5 1/4	133
494X	4	1 15/16	49	3/8	9.5	1	25



1/4" Hex Power Drive – ACR®



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

Part number suffix -R
For removal



Part number suffix -D
For driving



No part number suffix
For both removal and driving



1/4" Hex Power Drive with Finder Sleeve



Part Number	Point Size	Overall Length		Sleeve Diameter	
		In.	mm	In.	mm
SD-556-A	2	3 1/2	89	7/16	11.1
SD-556	2	6	152	7/16	11.1



7/16" Hex Power Drive



Part Number	Point Size	Overall Length		Body Diameter		Turned Length	
		In.	mm	In.	mm	In.	mm
482X	2	3 1/2	89	1/4	6.4	2 1/4	57
483X	3	3 1/2	89	5/16	7.9	2 1/4	57
484X	4	3 1/2	89	3/8	9.5	2 1/4	57



9/32" No.130A Yankee Drive

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

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

ACR® is a trademark of the Phillips Screw Co.

Phillips Bits



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	1 13/16	46	1/4	6.4
503X	3	1 1/2	38	5/16	7.9

*Features ACR[®] anti-camout ribs. See Tool Tip on page 3.

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.

12-24 Screw Shank Drive



Part Number	Point Size	Overall Length		Body Diameter	
		In.	mm	In.	mm
551X	1	1 3/16	30	.30	7.6
552X	2	1 3/16	30	.30	7.6
552I	2	1 3/16	30	.30	7.6
553X	3	1 3/16	30	.30	7.6

1/4"-24 Screw Shank Drive



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

8-32 Screw Shank Drive



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

Female Square Service Drive



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

APEX® Solutions

Does Apex offer Torx® bits?

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

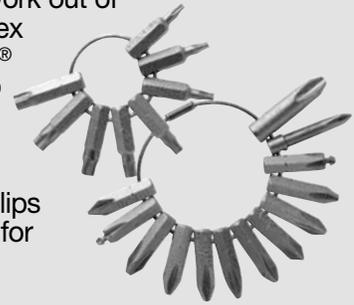
(See page 10)

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



Is there an easy way to select a bit?

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



What is a finder sleeve?

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



(See page 9)

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.



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What's the difference between Torx® and Torx Plus® bits?

Torx Plus® bits and fasteners feature a greater engagement area for higher torque transfer and reduced camout when driving Torx Plus® fasteners. They can provide up to 100% more drive cycles.

Torx Plus® bits are not compatible with standard Torx® fasteners.

(See pages 10-12)

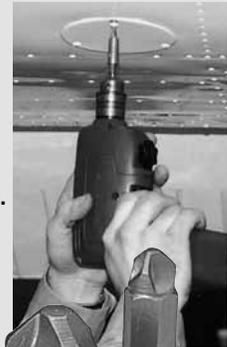


Torx Plus® is a trademark of Acument Intellectual Properties, LLC. Torx Plus® Tamper Resistant Bits are available on a limited basis. Please contact your Area Distributor or Representative for more details.

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 68-72 for more information)



How do Torxalign® bits work?

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



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

Slotted Bits



1/4" Hex Insert Bits – Limited Clearance



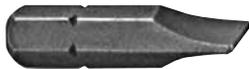
Part Number	Screw Size	Length		Blade Thickness		Blade Width	
		In.	mm	In.	mm	In.	mm
445-000X	1F-2R	1	25	.021	.53	.125	3.2
445-00X	2F-3R	1	25	.025	.64	.140	3.6
445-0X	3F-4R	1	25	.030	.76	.154	3.9
445-10X	4F-5R	1	25	.034	.86	.185	4.7
445-20X	5F-6R	1	25	.036	.91	.216	5.5
445-30X	6F-7R	1	25	.038	.97	.248	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
445-6X	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		Blade Thickness		Blade Width/ Body Diameter	
		In.	mm	In.	mm	In.	mm
320-000X	1F-2R	1 15/16	49	.022	.56	.122	3.10
326-000X	1F-2R	2 3/4	70	.022	.56	.122	3.10
323-000X	1F-2R	3	76	.022	.56	.122	3.10
327-000X	1F-2R	3 1/2	89	.022	.56	.122	3.10
324-000X	1F-2R	4	102	.022	.56	.122	3.10
325-000X	1F-2R	5	127	.022	.56	.122	3.10
328-000X	1F-2R	6	152	.022	.56	.122	3.10
320-00X	2F-3R	1 15/16	49	.026	.66	.134	3.40
326-00X	2F-3R	2 3/4	70	.026	.66	.134	3.40
323-00X	2F-3R	3	76	.026	.66	.134	3.40
327-00X	2F-3R	3 1/2	89	.026	.66	.134	3.40
324-00X	2F-3R	4	102	.026	.66	.134	3.40
325-00X	2F-3R	5	127	.026	.66	.134	3.40
328-00X	2F-3R	6	152	.026	.66	.134	3.40
320-0X	3F-4R	1 15/16	49	.030	.76	.151	3.84
326-0X	3F-4R	2 3/4	70	.030	.76	.151	3.84
323-0X	3F-4R	3	76	.030	.76	.151	3.84
327-0X	3F-4R	3 1/2	89	.030	.76	.151	3.84
324-0X	3F-4R	4	102	.030	.76	.151	3.84
325-0X	3F-4R	5	127	.030	.76	.151	3.84
328-0X	3F-4R	6	152	.030	.76	.151	3.84
320-1X	4F-5R	1 15/16	49	.034	.86	.187	4.75
326-1X	4F-5R	2 3/4	70	.034	.86	.187	4.75
323-1X	4F-5R	3	76	.034	.86	.187	4.75
327-1X	4F-5R	3 1/2	89	.034	.86	.187	4.75
324-1X	4F-5R	4	102	.034	.86	.187	4.75
325-1X	4F-5R	5	127	.034	.86	.187	4.75
328-1X	4F-5R	6	152	.034	.86	.187	4.75
320-20X	5F-6R	1 15/16	49	.036	.91	.215	5.46
326-20X	5F-6R	2 3/4	70	.036	.91	.215	5.46
323-20X	5F-6R	3	76	.036	.91	.215	5.46
327-20X	5F-6R	3 1/2	89	.036	.91	.215	5.46
324-20X	5F-6R	4	102	.036	.91	.215	5.46
325-20X	5F-6R	5	127	.036	.91	.215	5.46
328-20X	5F-6R	6	152	.036	.91	.215	5.46
320-2X	5F-6R	1 15/16	49	.036	.91	.250	6.35
326-2X	5F-6R	2 3/4	70	.036	.91	.250	6.35
323-2X	5F-6R	3	76	.036	.91	.250	6.35
327-2X	5F-6R	3 1/2	89	.036	.91	.250	6.35
324-2X	5F-6R	4	102	.036	.91	.250	6.35
328-2X	5F-6R	6	152	.036	.91	.250	6.35
320-3X	6F-8R	1 15/16	49	.038	.97	.250	6.35
326-3X	6F-8R	2 3/4	70	.038	.97	.250	6.35
323-3X	6F-8R	3	76	.038	.97	.250	6.35
327-3X	6F-8R	3 1/2	89	.038	.97	.250	6.35
324-3X	6F-8R	4	102	.038	.97	.250	6.35
325-3X	6F-8R	5	127	.038	.97	.250	6.35
328-3X	6F-8R	6	152	.038	.97	.250	6.35
320-4X	8F-10R	1 15/16	49	.042	1.07	.275	6.99
326-4X	8F-10R	2 3/4	70	.042	1.07	.275	6.99
323-4X	8F-10R	3	76	.042	1.07	.275	6.99
327-4X	8F-10R	3 1/2	89	.042	1.07	.275	6.99
324-4X	8F-10R	4	102	.042	1.07	.275	6.99
325-4X	8F-10R	5	127	.042	1.07	.275	6.99
328-4X	8F-10R	6	152	.042	1.07	.275	6.99
320-5X	10F-12R	1 15/16	49	.046	1.17	.312	7.92
326-5X	10F-12R	2 3/4	70	.046	1.17	.312	7.92
323-5X	10F-12R	3	76	.046	1.17	.312	7.92
327-5X	10F-12R	3 1/2	89	.046	1.17	.312	7.92
324-5X	10F-12R	4	102	.046	1.17	.312	7.92
325-5X	10F-12R	5	127	.046	1.17	.312	7.92
328-5X	10F-12R	6	152	.046	1.17	.312	7.92
320-6X	12F-14R	1 15/16	49	.050	1.27	.360	9.14
326-6X	12F-14R	2 3/4	70	.050	1.27	.360	9.14
323-6X	12F-14R	3	76	.050	1.27	.360	9.14
327-6X	12F-14R	3 1/2	89	.050	1.27	.360	9.14
324-6X	12F-14R	4	102	.050	1.27	.360	9.14
325-6X	12F-14R	5	127	.050	1.27	.360	9.14
328-6X	12F-14R	6	152	.050	1.27	.360	9.14

Slotted Bits



5/16" Hex Power Drive



Part Number	Screw Size	Length		Blade Thickness		Blade Width/ Body Diameter	
		In.	mm	In.	mm	In.	mm
635-6X	10F-12R	2 1/4	57	.046	1.17	.360	9.14
635-7X	12F-14R	2 1/4	57	.050	1.27	.395	10.03
635-8X	14F-16R	2 1/4	57	.055	1.40	.457	11.61
635-9X	16F-20R	2 1/4	57	.060	1.52	.503	12.78
635-10X	20F-22R	2 1/4	57	.062	1.57	.545	13.84

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.



10-32 Screw Shank Drive



Part Number	Screw Size	Length		Blade Thickness		Blade Width/ Body Diameter	
		In.	mm	In.	mm	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

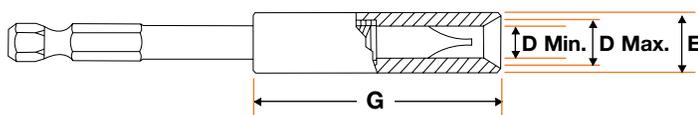


Part Number	Screw Size	Length		Blade Thickness		Blade Width/ Body Diameter	
		In.	mm	In.	mm	In.	mm
309-000X	1F-2R	1 1/2	38	.022	.56	.125	3.18
309-00X	2F-3R	1 1/2	38	.026	.66	.140	3.56
309-1X	4F-5R	1 1/2	38	.034	.86	.187	4.75
309-2X	5F-6R	1 1/2	38	.036	.91	.225	5.72
309-3X	6F-7R	1 1/2	38	.038	.97	.250	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

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.		D Min.		Sleeve Length G		Sleeve Diameter E	
		In.	mm	In.	mm	In.	mm	In.	mm
L	5F-6R	.260	6.60	.233	5.92	1 7/8	47.6	3/8	9.5
M	6F-6R	.309	7.85	.261	6.63	1 7/8	47.6	7/16	11.1
P	8F-6R	.368	9.35	.310	7.87	1 7/8	47.6	1/2	12.7
NP*	8F-10R	.368	9.35	.310	7.87	1 7/8	47.6	7/16	11.1
R	10F-12R	.415	10.54	.369	9.37	2	50.8	9/16	14.3
S	12F-14R	.478	12.14	.416	10.57	2	50.8	5/8	15.9
T	14F-16R	.522	13.26	.479	12.17	2 1/8	54.0	11/16	17.5
U	16F-20R	.621	15.77	.523	13.28	2 1/8	54.0	3/4	19.1
W	20F-22R	.665	16.89	.622	15.80	2 1/16	52.4	13/16	20.3
Y	24F-24R	.715	18.16	.666	16.92	2 1/32	51.6	15/16	23.8

*Sleeve NP is a cup type sleeve.

Slotted Power Bits with Finder Sleeves



1/4" Hex Power Drive



Part No. Complete Assembly	Part No. Bit Only	Screw Size	Bit Length		Blade Thickness		Bit Body Diameter	
			In.	mm	In.	mm	In.	mm
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 – Long Series



Part No. Complete Assembly	Part No. Bit Only	Screw Size	Bit Length		Blade Thickness		Bit Body Diameter	
			In.	mm	In.	mm	In.	mm
L-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



1/4" Hex Power Drive – Extra Short Series



Part No. Complete Assembly	Part No. Bit Only	Screw Size	Bit Length		Blade Thickness		Bit Body Diameter	
			In.	mm	In.	mm	In.	mm
000L-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-OLX	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



7/16" Hex Power Drive with Finder Sleeves



Part Number	Screw Size	Bit Length		Blade Thickness		Bit Body Diameter	
		In.	mm	In.	mm	In.	mm
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.

Torx® Bits



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.



5/16" Hex Insert Bits

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



5/16" Hex Insert Bits – Tamper Resistant**

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

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



5/8" Hex Insert Bits

Part Number	Hex Flat Type*	Driver Size		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.

Torx® Bits



1/4" Hex Power Drive

Part Number	Driver Size		Body Diameter		Overall Length	
			In.	mm	In.	mm
49-TX-05	T-5	.055	.119	3.0	1 15/16	49
49-A-TX-05	T-5	.055	.119	3.0	2 3/4	70
49-B-TX-05	T-5	.055	.119	3.0	3 1/2	89
49-TX-06	T-6	.065	.119	3.0	1 15/16	49
49-A-TX-06	T-6	.065	.119	3.0	2 3/4	70
49-TX-07	T-7	.077	.119	3.0	1 15/16	49
49-A-TX-07	T-7	.077	.119	3.0	2 3/4	70
49-B-TX-07	T-7	.077	.119	3.0	3 1/2	89
49-C-TX-07	T-7	.077	.119	3.0	6	152
49-TX-08	T-8	.090	.119	3.0	1 15/16	49
49-A-TX-08	T-8	.090	.119	3.0	2 3/4	70
49-B-TX-08	T-8	.090	.119	3.0	3 1/2	89
49-C-TX-08	T-8	.090	.119	3.0	6	152
49-TX-09	T-9	.097	.119	3.0	1 15/16	49
49-A-TX-09	T-9	.097	.119	3.0	2 3/4	70
49-B-TX-09	T-9	.097	.119	3.0	3 1/2	89
49-C-TX-09	T-9	.097	.119	3.0	6	152
49-TX-10	T-10	.107	.150	3.8	1 15/16	49
49-A-TX-10	T-10	.107	.150	3.8	2 3/4	70
SD-4693	T-10	.107	.150	3.8	3	75
49-B-TX-10	T-10	.107	.150	3.8	3 1/2	89
49-C-TX-10	T-10	.107	.150	3.8	6	152
49-TX-15	T-15	.128	.150	3.8	1 15/16	49
49-A-TX-15	T-15	.128	.150	3.8	2 3/4	70
49-B-TX-15	T-15	.128	.150	3.8	3 1/2	89
49-C-TX-15	T-15	.128	.150	3.8	6	152
49-TX-20	T-20	.151	.171	4.3	1 15/16	49
49-A-TX-20	T-20	.151	.171	4.3	2 3/4	70
49-B-TX-20	T-20	.151	.171	4.3	3 1/2	89
49-TX-20-5	T-20	.151	.171	4.3	5	127
49-C-TX-20	T-20	.151	.171	4.3	6	152
49-TX-25	T-25	.173	.193	4.9	1 15/16	49
49-A-TX-25	T-25	.173	.193	4.9	2 3/4	70
49-B-TX-25	T-25	.173	.193	4.9	3 1/2	89
49-C-TX-25	T-25	.173	.193	4.9	6	152
49-TX-27	T-27	.195	.215	5.5	1 15/16	49
49-A-TX-27	T-27	.195	.215	5.5	2 3/4	70
49-B-TX-27	T-27	.195	.215	5.5	3 1/2	89
49-C-TX-27	T-27	.195	.215	5.5	6	152
49-TX-30	T-30	.216	.236	6.0	1 15/16	49
49-A-TX-30	T-30	.216	.236	6.0	2 3/4	70
49-B-TX-30	T-30	.216	.236	6.0	3 1/2	89
49-C-TX-30	T-30	.216	.236	6.0	6	152
49-TX-40	T-40	.260	.309	7.8	1 15/16	49
49-A-TX-40	T-40	.260	.309	7.8	2 3/4	70
49-B-TX-40	T-40	.260	.309	7.8	3 1/2	89
49-C-TX-40	T-40	.260	.309	7.8	6	152



1/4" Hex Power Drive – Torxalign®

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



1/4" Hex Power Drive – Tamper Resistant**

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

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



1/4" Hex Power Drive with Finder Sleeves

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

*See page 14 for Sleeve Selection



7/16" Hex Power Drive

Part Number	Driver Size		Body Diameter		Overall Length	
			In.	mm	In.	mm
48-TX-40	T-40	.260	.277	7.0	3 1/2	89
48-TX-45	T-45	.306	.323	8.2	3 1/2	89
48-TX-50	T-50	.346	.363	9.2	3 1/2	89
48-TX-55	T-55	.440	.503	12.8	3 3/4	95

Torx® Bits



10-32 Screw Shank Drive

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



12-24 Screw Shank Drive

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



Female Square Service Drive

Part Number	Driver Size		Square Drive	Body Diameter		Overall Length	
			In.	In.	mm	In.	mm
834-TX-25	T-25	.173	3/8	.240	6.1	2 13/16	71
834-TX30-1.62	T-30	.216	3/8	.234	5.9	1 5/8	41
834-TX40-2.95	T-40	.260	3/8	.277	7.0	2 61/64	75
834-TX50-1.62	T-50	.346	3/8	.373	9.4	1 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	.440	1/2	.363	9.2	5 7/8	150



1" Square Drive Adapters with Torx® Insert Bit

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

Torx Plus® Bits



1/4" Hex Insert Bits

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

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



5/16" Hex Insert Bits

Part Number	Driver Size		Overall Length	
			In.	mm
480-30IPX	30IPR	.216	1 1/4	32
480-40IPX	40IPR	.260	1 1/4	32
480-45IPX	45IPR	.306	1 1/4	32
480-50IPX	50IPR	.346	1 1/4	32
480-55IPX	55IPR	.440	1 1/4	32

Ask your local Apex Representative about **MorTorq® Super Bits**  

Torx Plus® Bits



1/4" Hex Power Drive

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



1/4" Hex Power Drive – Tamper Resistant

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

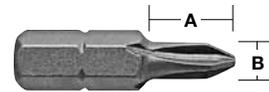
**Tamper resistant Torx Plus® bits are available on a restricted distribution basis. Contact your local Apex representative for details.

Pozidriv® Bits



1/4" Hex Insert Bits

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



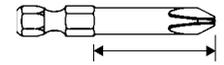
1/4" Hex Insert Bits – Limited Clearance

Part Number	Point Size	In.	Overall Length		Turned Length (A)		Turned OD (B)	
			In.	mm	In.	mm	In.	mm
446-1-PZDX	1	1	25.4	7/16	11	0.18	4.6	
446-2-PZDX	2	1	25.4	7/16	11	0.18	4.6	



5/16" Hex Insert Bits

Part Number	Point Size	Overall Length	
		In.	mm
480-1-PZDX	1	1 1/4	32
480-2-PZDX	2	1 1/4	32
480-3-PZDX	3	1 1/4	32



1/4" Hex Power Drive

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



1/4" -24 Screw Shank Drive

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



8-32 Screw Shank Drive

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

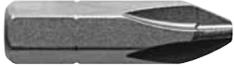


10-32 Screw Shank Drive

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

Pozidriv® is a registered trademark of the Phillips Screw Company.

Sel-O-Fit Bits

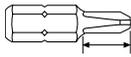


1/4" Hex Insert Bits

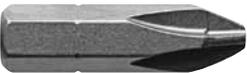
Part Number	Point Size	Overall Length	
		In.	mm
440-1-SFX	1	1	25
440-2-SFX	2	1	25
440-215-SFX	2	1 1/2	38
440-22-SFX	2	2	51
440-225-SFX	2	2 1/2	64
440-3-SFX	3	1	25



1/4" Hex Insert Bits – Limited Clearance



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

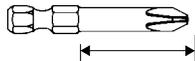


5/16" Hex Insert Bits

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



1/4" Hex Power Drive



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

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.

Quadrex® Bits

1/4" Hex Insert Bits

Part Number	Point Size	Overall Length	
		In.	mm
950-QD-2	2	1	25

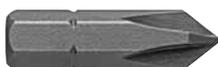
1/4" Hex Power Drive

Part Number	Point Size	Overall Length		Body Diameter		Turned Length	
		In.	mm	In.	mm	In.	mm
95-QD-2	2	1 15/16	49	1/4	6	1 1/4	32
95-A-QD-2	2	2 3/4	70	1/4	6	2	51
95-B-QD-2	2	3 1/2	89	1/4	6	2 3/4	70
95-QD-3	3	1 15/16	49	5/16	7.9	1 1/4	32

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.

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		Body Diameter		Turned Length	
		In.	mm	In.	mm	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 screw, the larger the body diameter.

12-24 Screw Shank Drive



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



1/4" Female Square Drive

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



3/8" Female Square Drive

Part Number	Screw Size	Overall Length		Body Diameter	
		In.	mm	In.	mm
832-F	All	2 5/8	67	1/4	6
833-F	All	2 5/8	67	5/16	8
834-F	All	2 5/8	67	3/8	10

ACR® is a trademark of the Phillips Screw Co.

B.N.A.E. Bits

1/4" Hex Insert Bits



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



1/4" Hex Insert Bits – ACR®

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



ACR® ribs for both removal and driving

Socket Head Sizing Chart

SAE



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

Metric



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

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 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
315-2.5mm	2.5mm	1	25
315-4mm	4mm	1 5/16	33
315-5mm	5mm	1 5/16	33
315-6mm	6mm	1 5/16	33
315-7mm	7mm	1 5/16	33
315-8mm	8mm	1 5/16	33
315-10mm	10mm	1 3/8	35
315-12mm	12mm	1 1/4	32
315-14mm	14mm	1 1/4	32

1/4" Hex Power Drive



Part Number	Hex Size	Overall Length	
		In.	mm
AM-01-A	0.050	1 15/16	49
AM-02	1/16	1 15/16	49
AM-02-A	5/64	1 15/16	49
AM-03	3/32	1 15/16	49
AM-03-3	3/32	3	76
AM-03-6	3/32	6	152
AM-03-A	7/64	1 15/16	49
AM-04	1/8	1 15/16	49
AM-04-3	1/8	3	76
AM-04-35	1/8	3 1/2	89
AM-04-4	1/8	4	102
AM-04-5	1/8	5	127
AM-04-6	1/8	6	152
AM-04-A	9/64	1 15/16	49
AM-04-A-4	9/64	4	102
AM-05	5/32	1 15/16	49
AM-05-3	5/32	3	76
AM-05-35	5/32	3 1/2	89
AM-05-4	5/32	4	102
AM-05-5	5/32	5	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 Power Drive – Metric



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

5/16" Hex Power Drive



Part Number	Hex Size	Overall Length	
		In.	mm
AS-06	3/16	3	76
AS-10	5/16	3	76
AS-12	3/8	3	76

Socket Head Bits

7/16" Hex Power Drive



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

7/16" Hex Power Drive, Metric



Part Number	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

Socket Head Bits with Square Drive Adapters, SAE

3/8" Square Drive



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

1/2" Square Drive



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

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

7/16" Hex Insert Bit Only



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

Use 7/16" Hex Insert Bits with 7/16" Female Hex Square drive adapters, page 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

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



1" Square Drive

Complete	Part Number		Hex Size	Overall Length		Length of Insert		Bit Length (A)	
	Adapter Only	Insert Only		In.	mm	In.	mm	In.	mm
SZ-80	RP-820	SZ-31-A	1/2	3 1/16	78	1 9/16	40	29/32	23
SZ-85	RP-828	SZ-85-A	5/8	3 1/4	83	2	51	1 1/8	29
SZ-86	RP-820	SZ-34-A	3/4	3 1/32	77	1 9/16	40	29/32	23
SZ-87	RP-828	SZ-37-A	3/4	3 1/4	83	2	51	1 1/8	29
SZ-88	SC-820	SZ-35-A	7/8	3 1/16	78	1 9/16	40	29/32	23
SZ-89	RP-828	SZ-38-A	7/8	3 1/4	83	2	51	1 1/8	29
SZ-91	RP-828	SZ-39-A	1	3 1/4	83	2	51	1 1/8	29
SZ-101	RP-848	SZ-101-A	1 1/4	3 1/2	89	2 5/8	67	1 3/8	35

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

Socket Head Bit & Adapter Sets, SAE



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

Socket Head Bit & Adapter Sets, Metric



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

Socket Head Adapters & Inserts, Metric



3/8" Square Drive

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



1/2" Square Drive

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



3/4" Square Drive

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



1" Square Drive

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

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.	mm	Turned Length 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
1956-2X	2	1/8	6	152	5 1/8	130
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

For Quad-rex bits refer to page 14.

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.

Triple Square Bits

1/4" Hex Insert Bits



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

5/16" Hex Insert Bits



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

1/4" Hex Power Drive



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

7/16" Hex Power Drive



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

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	32
212-8-ACR	8	1	32
212-10-ACR	10	1	32
212-1/4-ACR	1/4	1	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

Torq-Set® Bits

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 1/4	32
273A-3	3	1 13/16	46
273-3	3	1 15/16	49
273B-3	3	2 3/4	70
265-3	3	3 1/2	89
265A-3	3	6	152
170-4	4	1 1/4	32
273A-4	4	1 13/16	46
273-4	4	1 15/16	49
273B-4	4	2 3/4	70
265-4	4	3 1/2	89
265A-4	4	6	152
170-5	5	1 1/4	32
273-5	5	1 15/16	49
273B-5	5	2 3/4	70
265-5	5	3 1/2	89
265A-5	5	6	152
170-6	6	1 1/4	32
170-6-ACR*	6	1 1/4	32
273A-6	6	1 13/16	46
273-6	6	1 15/16	49
273B-6	6	2 3/4	70
265-6	6	3 1/2	89
265A-6	6	6	152
170-8	8	1 1/4	32
170-8-ACR*	8	1 1/4	32
273A-8	8	1 13/16	46
273-8	8	1 15/16	49
273B-8	8	2 3/4	70
265-8	8	3 1/2	89
265A-8	8	6	152
170-10	10	1 1/4	32
170-10-ACR*	10	1 1/4	32
273A-10	10	1 13/16	46
273-10	10	1 15/16	49
273B-10	10	2 3/4	70
265-10	10	3 1/2	89
265A-10	10	6	152
170-1/4B	1/4	1 1/4	32
170-5/16B	5/16	1 1/4	32
170-3/8B	3/8	1 1/4	32

*Feature ACR® anti-camout ribs.

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

MorTorq® Bits



Part Number	Driver Size/Type	MorTorq Size	Overall Length	
			In.	mm
440-MT-00	1/4" Hex Insert	00	1	25
440-MT-0	1/4" Hex Insert	0	1	25
440-MT-1	1/4" Hex Insert	1	1	25
440-MT-2	1/4" Hex Insert	2	1	25
480-MT-3	5/16" Hex Insert	3	1 1/4	31
AM-MT-0	1/4" Hex Power	0	1 15/16	31
AM-MT-1	1/4" Hex Power	1	1 15/16	31
AM-MT-2	1/4" Hex Power	2	1 15/16	31
AN-MT-3	7/16" Hex Power	3	3 1/2	89
AN-MT-4	7/16" Hex Power	4	3 1/2	89

Other drive sizes/types and point sizes can be quoted. Contact your Apex Distributor or Representative for more information. MorTorq® is a registered trademark of Phillips Screw Company.

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 1/2	38
TWB-7	7	5/16-24	3/8-24	1 1/2	38
TWB-8	8	3/8-24	7/16-20	1 1/2	38

5/16" Hex Power Drive



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

Hi-Torque® Bits

1/4" Square Drive Insert Bits



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

3/8" Square Drive Insert Bits



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

1/2" Square Drive Insert Bits



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

1/4" Hex Insert Bits



Part Number	Recess	Overall Length In.	Body Diameter In.	Blade Thickness In.	Blade Width In.
HTN-B-1	1	1 1/4	9/32	.049	.274
HTN-B-2	2	1 1/4	5/16	.059	.295
HTN-B-3	3	1 1/4	3/8	.059	.377
HTN-B-4	4	1 1/4	1/2	.073	.502

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

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 pages 25-26)



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 page 25)



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.

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 26)



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	Magnetic

5/16" Hex Drive



Part Number	Overall Length	
	In.	mm

630	1 13/16	46	For 1/4" hex inserts
M-630	3	76	For 1/4" hex inserts; magnetic
638	2 1/2	64	For 5/16" hex inserts
M-638	3 3/32	79	For 5/16" hex inserts; magnetic

5/16" Buckeye-Desouter for 1/4" Hex Inserts



Part Number	Overall Length	
	In.	mm

610	2	51	
M-610	3 3/16	81	Magnetic

7/16" Hex Drive



Part Number	Overall Length	
	In.	mm

488	2 3/4	70	For 1/4" hex inserts
M-488	3 1/16	78	For 1/4" hex inserts; magnetic
480	2 3/4	70	For 5/16" hex inserts
M-480	3 5/16	84	For 5/16" hex inserts; magnetic
M-480-6	6	152	For 5/16" hex inserts; magnetic

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



Part Number	Overall Length	
	In.	mm

450	2 1/4	57	
M-450	3 3/8	86	Magnetic

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



Part Number	Overall Length	
	In.	mm

460	2 1/4	57	
M-460	3 3/8	86	Magnetic

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



Part Number	Overall Length	
	In.	mm

M-470	3 3/8	86	Magnetic
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1/4"-24 Screw Shank for 1/4" Hex Inserts



Part Number	Overall Length	
	In.	mm

400-BH	1 1/8	29	
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Bit Holders

1/4" Female Square Drive



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

3/8" Female Square Drive



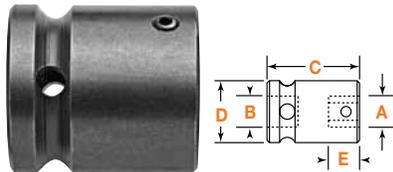
Part Number	Overall Length		
	In.	mm	
838	1 1/2	38	For 1/4" hex inserts
M-838	2 23/32	69	For 1/4" hex inserts; magnetic
835	1 1/2	38	For 5/16" hex inserts
M-835	2 3/4	70	For 5/16" hex inserts; magnetic
830	1 1/2	38	For 5/16" square inserts

1/2" Female Square Drive



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

Bit Holders/Adapters with Set Screw or Thru Hole



Part Number	Set Screw Lock	Spring Pin Retainer	Spring Pin Only	Hex Square Opening Drive		Overall Length (C)		Body Dia. (D)		Opening Depth (E)	
				(A) In.	(B) In.	In.	mm	In.	mm	In.	mm
SC-108				1/4	1/4	1 1/4	32	3/4	19	5/8	16
SC-308				1/4	3/8	1 1/2	38	3/4	19	5/8	16
SC-508				1/4	1/2	1 1/2	38	7/8	22	5/8	16
SC-114				7/16	1/4	1	25	3/4	19	17/32	13
SC-314	RP-314	21-S-156-0750		7/16	3/8	1 3/8	35	3/4	19	17/32	13
SC-514	RP-514	21-S-156-0937		7/16	1/2	1 5/8	41	15/16	24	17/32	13
SC-614	RP-614	21-S-156-0375		7/16	5/8	1 3/4	46	1 1/4	32	17/32	13
SC-520	RP-520	21-S-187-1125		5/8	1/2	1 1/2	38	1 1/8	29	11/16	17
SC-620	RP-620	21-S-187-1250		5/8	5/8	1 1/2	38	1 1/4	32	11/16	17
SC-720	RP-720	21-S-187-1500		5/8	3/4	1 11/16	43	1 1/2	38	11/16	17
SC-820	RP-820	21-S-187-1375		5/8	1	2 1/8	54	2 1/8	54	11/16	17
SC-724	RP-724	21-S-187-1500		3/4	3/4	2	51	1 5/8	42	7/8	22
SC-728	RP-728	21-S-187-1625		7/8	3/4	2	51	1 5/8	42	57/64	23
SC-828	RP-828	21-S-187-1625		7/8	1	2 1/8	54	2 1/8	54	5/8	23

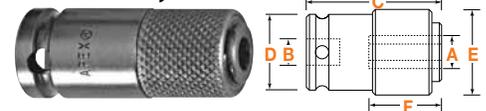
Note: Use SC bit holders with socket head inserts (page 19) and pipe plug inserts (page 21). Can be used with power bits.

Female Threaded Drive, Quick Releasing Chucks



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

Female Square Drive, Quick Releasing Chucks



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