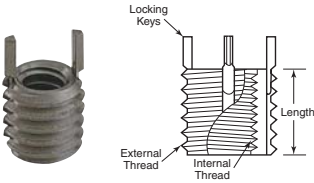




# KEYLOCKING THREADED INSERTS

Buy One or Buy Bulk & SAVE



Installation Data	
<b>Step 1:</b>	Drill out hole to allow full tap depth shown in the description. Note the tap drill is oversized.
<b>Step 2:</b>	Countersink to specifications in the chart.
<b>Step 3:</b>	Tap hole to specifications in the chart.
<b>Step 4:</b>	Screw in insert (by hand) to .010" to .030" below surface.
<b>Step 5:</b>	Drive down locking keys with installation tool.

Quickly repair stripped, damaged or worn out threads with a new stronger thread using keylocking inserts. Keylocking inserts are easily installed using standard drills and taps. Once the locking keys are driven down, the insert is tightly locked and will not turn. Steel inserts are C1215, parkerized.

Stainless inserts are 303, passivated. Internal threads are class 2B, external threads are 2A. Inserts with internal thread size 5/16 or M7 and larger have four locking keys. Smaller sizes have two locking keys. Solid inserts allow you to relocate or fill in holes that are too large. All the inserts listed are in stock for same day shipment.

## Keylocking Threaded Inserts Inch

Insert External Thread Class 2A	Installation Data			Removal Data	
	Tap Drill Size	C'Sink Dia. +.010 -.000	Thread Tap Class 2B	Drill Size	Depth
5/16-18	I	.32	5/16-18	7/32	1/8
3/8-16	Q	.38	3/8-16	9/32	1/8
7/16-14	X	.44	7/16-14	11/32	3/16
1/2-13	2#/64	.51	1/2-13	13/32	3/16
9/16-12	3#/64	.57	9/16-12	15/32	3/16
5/8-11	3#/64	.63	5/8-11	17/32	3/16
3/4-16	4#/64	.76	3/4-16	21/32	3/16
7/8-14	5#/64	.88	7/8-14	25/32	3/16
1-12	15/16	1.02	1-12	27/32	3/16
1 1/8-12	1 1/16	1.14	1 1/8-12	31/32	3/16
1 1/4-12	1 1/8	1.27	1 1/4-12	1 1/32	3/16
1 3/8-12	1 1/4	1.39	1 3/8-12	1 1/16	3/16
1 1/2-12	1 1/2	1.52	1 1/2-12	1 1/8	3/16
1 5/8-12	1 5/8	1.64	1 5/8-12	1 3/8	3/16
1 3/4-12	1 3/4	1.89	1 3/4-12	1 1/2	3/16

See page 757 for kits.

Steel		Stainless		Internal Thread	External Thread	Lgth.	Min. Tap Depth	Pack Qty.	Installation Tool Item No.
Item No.	Item No.	Item No.	Item No.						
<b>Thinwall</b>									
KLI-65921	KLI-66321	10-24	5/16-18	.31	.37	1	KLI-64721		
KLI-66121	KLI-66521	10-32	5/16-18	.31	.37	1	KLI-64721		
KLI-65922	KLI-66322	1/4-20	3/8-16	.37	.43	1	KLI-64722		
KLI-66122	KLI-66522	1/4-28	3/8-16	.37	.43	1	KLI-64722		
KLI-65923	KLI-66323	5/8-18	7/16-14	.43	.50	1	KLI-64723		
KLI-66123	KLI-66523	5/8-24	7/16-14	.43	.50	1	KLI-64723		
KLI-65924	KLI-66324	3/8-16	1/2-13	.50	.56	1	KLI-64724		
KLI-66124	KLI-66524	3/8-24	1/2-13	.50	.56	1	KLI-64724		
KLI-65925	—	7/8-14	5/8-12	.56	.62	1	KLI-64725		
KLI-66125	KLI-66525	7/8-20	5/8-12	.56	.62	1	KLI-64725		
KLI-65926	KLI-66326	1/2-13	5/8-11	.62	.68	1	KLI-64726		
KLI-66126	KLI-66526	1/2-20	5/8-11	.62	.68	1	KLI-64726		
<b>Heavy Duty</b>									
KLI-65900	KLI-66300	8-32	5/16-18	.31	.37	1	KLI-64700		
KLI-65901	KLI-66301	10-24	3/8-16	.31	.37	1	KLI-64701		
KLI-66101	KLI-66501	10-32	3/8-16	.31	.37	1	KLI-64701		
KLI-65902	KLI-66302	1/4-20	7/16-14	.37	.43	1	KLI-64702		
KLI-66102	KLI-66502	1/4-28	7/16-14	.37	.43	1	KLI-64702		
KLI-65903	KLI-66303	5/8-18	1/2-13	.43	.50	1	KLI-64703		
KLI-66103	KLI-66503	5/8-24	1/2-13	.43	.50	1	KLI-64703		
KLI-65904	KLI-66304	3/8-16	5/8-12	.50	.56	1	KLI-64704		
KLI-66104	KLI-66504	3/8-24	5/8-12	.50	.56	1	KLI-64704		
KLI-65905	KLI-66305	7/8-14	5/8-11	.62	.68	1	KLI-64705		
KLI-66105	KLI-66505	7/8-20	5/8-11	.62	.68	1	KLI-64705		
KLI-65906	KLI-66306	1/2-13	3/4-16	.62	.68	1	KLI-64706		
KLI-66106	KLI-66506	1/2-20	3/4-16	.62	.68	1	KLI-64706		
KLI-65907	KLI-66307	5/8-12	3/4-16	.81	.94	1	KLI-64707		
KLI-65908	KLI-66308	5/8-11	7/8-14	.87	1.00	1	KLI-64708		
KLI-66108	KLI-66508	5/8-18	7/8-14	.87	1.00	1	KLI-64708		
KLI-65909	KLI-66309	3/4-10	1 1/8-12	1.12	1.31	1	KLI-64709		
KLI-66109	KLI-66509	3/4-16	1 1/8-12	1.12	1.31	1	KLI-64709		
KLI-65910	KLI-66310	7/8-9	1 1/4-12	1.25	1.44	1	KLI-64710		
KLI-66110	—	7/8-14	1 1/4-12	1.25	1.44	1	KLI-64710		
KLI-65911	KLI-66311	1-8	1 3/8-12	1.37	1.56	1	KLI-64711		
KLI-66111	—	1-14	1 3/8-12	1.37	1.56	1	—		
KLI-65913	—	1 1/8-7	1 1/2-12	1.62	1.84	1	KLI-64713		
KLI-65914	—	1 1/4-7	1 3/8-12	1.81	2.06	1	KLI-64714		
KLI-66114	—	1 1/4-12	1 3/8-12	1.81	2.06	1	KLI-64714		
KLI-65916	—	1 1/2-6	1 7/8-12	2.00	2.28	1	KLI-64716		
KLI-66116	—	1 1/2-12	1 7/8-12	2.00	2.28	1	KLI-64716		
<b>Extra Heavy Duty</b>									
KLI-65931	—	6-32	5/16-18	.31	.37	1	KLI-64731		
KLI-65934	KLI-66334	1/4-20	1/2-13	.37	.43	1	KLI-64734		
KLI-65935	KLI-66335	5/8-18	5/8-12	.43	.50	1	KLI-64735		
KLI-65936	KLI-66336	3/8-16	5/8-11	.50	.56	1	KLI-64736		
KLI-66136	—	3/8-24	5/8-11	.50	.56	1	KLI-64736		
KLI-65938	KLI-66338	1/2-13	7/8-14	.68	.75	1	KLI-64738		
KLI-65940	—	5/8-11	1-12	.87	1.00	1	KLI-64740		
KLI-66140	—	5/8-18	1-12	.87	1.00	1	KLI-64740		
KLI-65941	—	3/4-10	1 1/4-12	1.12	1.31	1	KLI-64741		
KLI-66141	—	3/4-16	1 1/4-12	1.12	1.31	1	KLI-64741		
<b>Solid</b>									
KLI-66001	—	—	5/16-18	.31	.37	1	KLI-64801		
KLI-66002	—	—	3/8-16	.31	.37	1	KLI-64802		
KLI-66004	—	—	1/2-13	.43	.50	1	KLI-64804		
KLI-66006	—	—	5/8-11	.62	.68	1	KLI-64806		
KLI-66007	—	—	3/4-16	.68	.68	1	KLI-64807		
KLI-66008	—	—	7/8-14	.87	1.00	1	KLI-64808		
KLI-66009	—	—	1-12	.87	1.00	1	KLI-64809		
KLI-66010	—	—	1 1/8-12	1.12	1.31	1	KLI-64810		

**Note:** Keylocking inserts can be removed without damage to the parent material: drill insert to the size and depth shown in the removal chart, then bend off keys and extract with an E-Z out or similar tool.

## Keylocking Threaded Inserts Metric

Insert External Thread Class 6g Dia. Pitch	Installation Data		Removal Data		
	Tap Drill Size	C' Sink Dia. +.25 -.00	Thread Tap Class 6H	Drill Size	Depth
M8 x 1.25	6.9	8.25	M8 x 1.25	5.5	4.00
M10 x 1.25	8.8	10.25	M10 x 1.25	7.5	4.75
M12 x 1.25	10.8	12.25	M12 x 1.25	9.5	4.75
M14 x 1.5	12.8	14.25	M14 x 1.5	11.5	4.75
M16 x 1.5	14.75	16.25	M16 x 1.5	13.5	4.75
M18 x 1.5	16.75	18.25	M18 x 1.5	15.5	4.75
M20 x 1.5	18.75	20.25	M20 x 1.5	17.5	4.75
M22 x 1.5	20.5	22.25	M22 x 1.5	17.75	6.35
M24 x 1.5	22.5	24.25	M24 x 1.5	19.75	6.35
M30 x 2.0	28.0	30.25	M30 x 2.0	25.75	6.35
M32 x 2.0	30.0	32.25	M32 x 2.0	27.75	6.35
M33 x 2.0	31.0	33.25	M33 x 2.0	28.75	6.35

Steel		Stainless		Internal Thread	External Thread	Lgth.	Min. Tap Depth	Pack Qty.	Installation Tool Item No.
Item No.	Item No.	Item No.	Item No.						
<b>Thinwall</b>									
KLI-65951	KLI-66351	M5 x .8	M8 x 1.25	8	9.5	1	KLI-64751		
KLI-65952	KLI-66352	M6 x 1.0	M10 x 1.25	10	11.5	1	KLI-64752		
KLI-65953	KLI-66353	M8 x 1.25	M12 x 1.25	12	13.5	1	KLI-64753		
KLI-66153	KLI-66553	M8 x 1.0	M12 x 1.25	12	13.5	1	KLI-64753		
KLI-65955	KLI-66355	M10 x 1.5	M14 x 1.5	14	15.5	1	KLI-64755		
KLI-66155	—	M10 x 1.25	M14 x 1.5	14	15.5	1	KLI-64755		
KLI-65956	KLI-66356	M12 x 1.75	M16 x 1.5	16	17.5	1	KLI-64756		
<b>Solid</b>									
KLI-66023	—	—	M12 x 1.25	12	14.5	1	KLI-64823		
KLI-66026	—	—	M18 x 1.5	18	20.5	1	KLI-64826		
<b>Heavy Duty</b>									
KLI-65963	KLI-66363	M4 x .7	M8 x 1.25	8	9.5	1	KLI-64763		
KLI-65964	KLI-66364	M5 x .8	M10 x 1.25	10	12.5	1	KLI-64764		
KLI-65965	KLI-66365	M6 x 1.0	M12 x 1.25	12	14.5	1	KLI-64765		
KLI-65966	KLI-66366	M8 x 1.25	M14 x 1.5	14	16.5	1	KLI-64766		
KLI-66166	—	M8 x 1.0	M14 x 1.5	14	16.5	1	KLI-64766		
KLI-65967	KLI-66367	M10 x 1.5	M16 x 1.5	16	18.5	1	KLI-64767		
KLI-66167	—	M10 x 1.25	M16 x 1.5	16	18.5	1	KLI-64767		
KLI-65969	KLI-66369	M12 x 1.75	M18 x 1.5	18	20.5	1	KLI-64769		
KLI-66169	—	M12 x 1.25	M18 x 1.5	18	20.5	1	KLI-64769		
KLI-65970	—	M14 x 2.0	M20 x 1.5	20	22.5	1	KLI-64770		
KLI-66170	—	M14 x 1.5	M20 x 1.5	20	22.5	1	KLI-64770		
KLI-65971	KLI-66371	M16 x 2.0	M22 x 1.5	22	24.5	1	KLI-64771		
KLI-66171	—	M16 x 1.5	M22 x 1.5	22	24.5	1	KLI-64771		
KLI-66172	—	M18 x 1.5	M24 x 1.5	24	26.5	1	KLI-64772		
KLI-65973	—	M20 x 2.5	M30 x 2.0	30	34.5	1	KLI-64773		
KLI-66173	—	M20 x 1.5	M30 x 2.0	30	34.5	1	KLI-64773		
KLI-66174	—	M22 x 1.5	M32 x 2.0	32	36.5	1	KLI-64774		
KLI-65975	—	M24 x 3.0	M33 x 2.0	33	37.5	1	KLI-64775		

## Thread Repair Tools



Quickly repairs damaged bolts. Twisting the handle opens and closes the floating blades around bolt. Rotating the tool around the bolt quickly repairs damaged threads. Adjusts to different diameters, inch or metric. Blades automatically adapt to any thread pitch, or groove. Can be used on right hand or left hand threads. Replacement blade kits available.

Item No.	Description	Pack Qty.
NES-2	Extra Small Rethreader 5/32 - 1/16" (4-18mm)	1
NES-3	Small Rethreader 1/4 - 3/8" (6-19mm)	1
NES-1R	Rethreader Replacement	2
NES-2R	Rethreader Replacement	2

# TAPS & KEYLOCKING THREADED INSERTS



## Taps Plug and Bottoming Styles



Plug Style



Bottoming Style

All inch taps are class 2B and all metric taps are 5H. Straight flute. Plug style is four thread chamfer and bottoming style is two thread chamfer.

Plug Style		Bottoming Style		Thread	Pack Qty.
Item No.	Helicoil	Item No.	Helicoil		
<b>Coarse Threads</b>					
TI-7002	02CPA	TI-7302	02CBA	2-56	1
TI-7010	04CPA	TI-7310	04CBA	4-40	1
TI-7020	05CPA	—	—	5-40	1
TI-7030	06CPA	TI-7330	06CBA	6-32	1
TI-7040	2CPA	TI-7340	2CBA	8-32	1
TI-7050	3CPA	TI-7350	3CBA	10-24	1
TI-7070	4CPA	—	—	1/4-20	1
TI-7080	5CPA	TI-7380	5CBA	5/16-18	1
TI-7090	6CPA	TI-7390	6CBA	3/8-16	1
TI-7100	7CPA	—	—	7/16-14	1
TI-7110	8CPA	TI-7410	8CBA	1/2-13	1
TI-7120	38187-9	—	—	5/16-12	1
TI-7130	18187-10	TI-7430	20187-10	3/8-11	1
TI-7140	18187-12	TI-7440	20187-12	3/4-10	1
TI-7150	18187-14	—	—	7/8-9	1
TI-7160	18187-16	TI-7460	20187-16	1-8	1
<b>Fine Threads</b>					
TI-7510	3FPA	TI-7600	3FBA	10-32	1
TI-7520	4FPA	TI-7610	4FBA	1/4-28	1
TI-7530	5FPA	TI-7620	5FBA	5/16-24	1
TI-7540	6FPA	TI-7630	6FBA	3/8-24	1
TI-7550	7FPA	TI-7640	7FBA	7/16-20	1
TI-7560	8FPA	—	—	1/2-20	1
TI-7580	18193-10	TI-7670	20193-10	5/8-18	1
TI-7590	18193-12	—	—	3/4-16	1
<b>Metric Threads</b>					
TI-7810	2087-5	TI-7870	2093-5	M5 x .8	1
TI-7820	2087-6	TI-7880	2093-6	M6 x 1	1
TI-7840	2087-8	TI-7900	2093-8	M8 x 1.25	1
TI-7850	2087-10	TI-7910	2093-10	M10 x 1.50	1
TI-7860	2087-12	TI-7920	2093-12	M12 x 1.75	1

## Taps Spiral Pointed Plug Style



Class 2B threads.  
Four thread chamfer.

Item No.	Helicoil	Thread	Pack Qty.	Item No.	Helicoil	Thread	Pack Qty.
<b>Coarse Threads</b>				<b>Fine Threads</b>			
TI-70500	04CSA	4-40	1	TI-70700	3FSA	10-32	1
TI-70520	06CSA	6-32	1	TI-70710	4FSA	1/4-28	1
TI-70530	2CSA	8-32	1	TI-70730	6FSA	3/8-24	1
TI-70540	3CSA	10-24	1				
TI-70560	4CSA	1/4-20	1				
TI-70570	5CSA	5/16-18	1				
TI-70580	6CSA	3/8-16	1				
TI-70600	8CSA	1/2-13	1				

## Taps Assortment Insert Kits - Inch and Metric



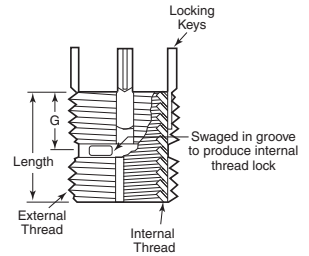
Contains the specified number of inserts and installation tools in a plastic case. Inch are heavy duty. Metric are thin wall type.

See page 756 for individual sizes and installation and removal instructions.

Inch				Metric			
Internal Thread Size	External Thread Size	Qty. of Inserts Per Kit		Internal Thread Size	External Thread Size	Qty. of Inserts Per Kit	
Coarse Series	Fine Series						
10-24	10-32	5		M5 x 0.8	M8 x 1.25	8	
1/4-20	1/4-28	10		M6 x 1.0	M10 x 1.25	8	
5/16-18	5/16-24	10		M8 x 1.25	M12 x 1.25	6	
3/8-16	3/8-24	10		M8 x 1.0	M12 x 1.25	6	
1/2-13	1/2-20	10		M10 x 1.5	M14 x 1.5	4	
5/8-11	5/8-18	10		M10 x 1.25	M14 x 1.5	4	
3/4-10	3/4-16	5		M12 x 1.75	M16 x 1.5	3	
				M12 x 1.25	M16 x 1.5	3	

Item No.	Description	Pack Qty.
<b>Inch</b>		
KLI-64951	Coarse Threads - Steel	1
KLI-64952	Fine Threads - Steel	1
<b>Metric</b>		
KLI-64983	Metric Thread Kit	1

## Internal Locking Stainless Steel Inch and Metric



Similar to the keylocking inserts shown on the previous pages except the inserts have a swaged in groove to produce an internal thread lock. This internal thread lock eliminates the need for other thread locking devices. Made from 303 stainless, passivated. Metric dimensions are shown in millimeters.

See page 756 for installation and removal instructions.

Item No.	Internal Thread	External Thread	Lgth.	G	Min. Tap Depth	Pack Qty.	Installation Tools	Item No.
<b>Thin Wall - Inch</b>								
KLI-71321	10-24	5/16-18	.31	.15	.37	1		KLI-64721
KLI-71521	10-32	3/8-18	.31	.15	.37	1		KLI-64721
KLI-71322	1/4-20	3/8-16	.37	.18	.43	1		KLI-64722
KLI-71522	1/4-28	3/8-16	.37	.18	.43	1		KLI-64722
KLI-71323	5/16-18	7/16-14	.43	.21	.50	1		KLI-64723
KLI-71324	3/8-16	1/2-13	.50	.25	.56	1		KLI-64724
<b>Thin Wall - Metric</b>								
KLI-71353	M8x1.25	M12x1.25	12	6	13.5	1		KLI-64753
<b>Heavy Duty - Inch</b>								
KLI-71300	8-32	5/16-18	.31	.15	.37	1		KLI-64700
KLI-71301	10-24	3/8-16	.31	.15	.37	1		KLI-64701
KLI-71501	10-32	3/8-16	.31	.15	.37	1		KLI-64701
KLI-71302	1/4-20	7/16-14	.37	.18	.43	1		KLI-64702
KLI-71303	5/16-18	1/2-13	.43	.21	.50	1		KLI-64703
KLI-71304	3/8-16	1/2-12	.50	.25	.56	1		KLI-64704

## Single Size Kits



Each kit contains inserts of one size per box and includes the quantity of inserts below. Also included, one installation tool and installation and removal instructions. All are heavy duty style.

See page 756 for individual sizes and installation and removal instructions.

Steel	Stainless	Item No.	Item No.	Internal Thread	External Thread	Lgth.	Inserts Per Kit	Pack Qty.
KLI-67900	—	—	—	8-32	5/16-18	.31	9	1
KLI-68101	—	—	—	10-32	3/8-16	.31	9	1
KLI-67902	KLI-68302	—	—	1/4-20	7/16-14	.37	8	1
KLI-67903	KLI-68303	—	—	5/16-18	1/2-13	.43	7	1
KLI-68103	—	—	—	3/8-24	1/2-13	.43	7	1
KLI-67904	KLI-68304	—	—	3/8-16	9/16-12	.50	6	1
KLI-68105	—	—	—	1/2-20	5/8-11	.62	6	1
KLI-67906	—	—	—	1/2-13	3/4-16	.62	4	1
KLI-67908	—	—	—	5/8-11	7/8-14	.87	3	1
KLI-67909	—	—	—	3/4-10	1 1/2-12	1.12	3	1



Thread Repair Kits New Style



Each kit provides everything you need to install Helicoil inserts; three different lengths of inserts (1 x diameter, 1/2 x diameter and 2 x diameter). Quantities in each kit are listed below. Also included is a tap, an installation tool, a drill and a tang removal tool. All items are packed in a plastic case.

Table with 10 columns: Item No., Helicoil, Thread Size, Inserts per Kit, Pack Qty., Item No., Helicoil, Thread Size, Inserts per Kit, Pack Qty. It lists various thread repair kits categorized into Coarse Threads, Metric Coarse Threads, and Fine Threads.

Thread Repair Kits Economy Kit



An easy and economical solution for repairing or reinforcing threaded holes in metal. Kit comes with a tap, 10 inserts and a combination installation and tang break tool. Replacement coil inserts sold separately.

Table with 10 columns: Item No., Thread Size, Inserts per Kit, Pack Qty., Item No., Thread Size, Inserts per Kit, Pack Qty. It lists economy thread repair kits categorized into Coarse Threads, Metric Coarse Threads, and Fine Threads.

There are two types of hand installation tools available for installing Helicoil inserts: threaded mandrel and prewinder types. The prewinder is used for fine threads because the inserts must be reduced in diameter before they will thread into the tapped hole. This is accomplished by winding them through a set of threads, called a prewinder at the front of the tool. Coarse threads can be installed with a threaded mandrel. The same tools are used for standard and screw lock inserts.

Hand Inserting Tools Economy Style



For UNF Threads



For Coarse and Metric Threads

These are the same insert tools sold in the installation kits. Good for occasional use and low quantities.

Table with 10 columns: Item No., Helicoil, Thread, Pack Qty., Item No., Helicoil, Thread, Pack Qty. It lists hand inserting tools categorized into Coarse Threads and Fine Threads.

Production Style



Type I - Threaded Mandrel 2-56



Type II - Prewinder #4 thru 1/2" UNC #10 thru 3/8" UNF M2.5 thru M12 M8 thru M12



Type III - Threaded Mandrel 3/16" thru 1 1/2" UNC M18 thru M39

These insert tools are for more frequent use and larger quantities.

Table with 10 columns: Item No., Helicoil, Type, Thread, Pack Qty., Item No., Helicoil, Type, Thread, Pack Qty. It lists production style hand inserting tools categorized into Coarse Threads, Fine Threads, and Metric Threads.

# COIL THREADED INSERTS



## Coil Threaded Inserts



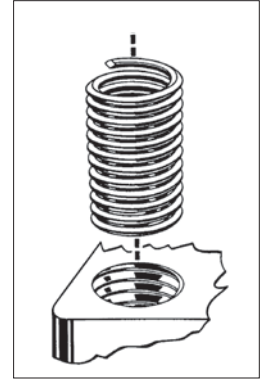
Free Running  
Coarse Thread



Screw Locking  
Fine Thread



Free Running  
Fine Thread



Quickly and permanently restore stripped, worn and damaged threads in any material. Coil tension securely holds the insert in place without undue tension on the surrounding material. They are vibration and impact resistant and will not strip or seize. All inserts are made from 18-8 stainless with a hardness of RC 43-50 and tensile strength above 200,000 psi. Screw-locking inserts have a series of straight segments to provide self-locking torque on the bolt, eliminating the need for other thread locking devices.

Free		Screw				Free		Screw				Pack Qty.		
Item No.	Helicoil	Item No.	Helicoil	Thread	Lgth.	Pack Qty.	Item No.	Helicoil	Item No.	Helicoil	Thread	Lgth.	Pack Qty.	
<b>Coarse</b>														
TI-05	1185-02CN086	TI-605	3585-02CN-086	2-56	0.086	1	TI-2130	1191-3CN190	TI-2630	3591-3CN190	10-32	0.19	1	
TI-10	1185-02CN129	---	---	2-56	0.129	1	TI-2140	1191-3CN285	TI-2640	3591-3CN285	10-32	0.285	1	
TI-15	1185-02CN172	---	---	2-56	0.172	1	TI-2150	1191-3CN380	TI-2650	3591-3CN380	10-32	0.38	1	
---	---	TI-670	3585-04CN112	4-40	0.112	1	TI-2160	1191-4CN250	TI-2660	3591-4CN-250	1/4-28	0.25	1	
TI-80	1185-04CN168	TI-680	3585-04CN168	4-40	0.168	1	TI-2170	1191-4CN375	TI-2670	3591-4CN-375	1/4-28	0.375	1	
TI-90	1185-04CN224	TI-690	3585-04CN224	4-40	0.224	1	TI-2180	1191-4CN500	---	---	1/4-28	0.5	1	
TI-120	1185-05CN250	---	---	5-40	0.25	1	TI-2190	1191-5CN312	---	---	5/16-24	0.312	1	
TI-130	1185-06CN138	---	---	6-32	0.138	1	TI-2200	1191-5CN469	---	---	5/16-24	0.469	1	
TI-140	1185-06CN207	TI-740	3585-06CN207	6-32	0.207	1	TI-2210	1191-5CN625	---	---	5/16-24	0.625	1	
TI-150	1185-06CN276	TI-750	3585-06CN276	6-32	0.276	1	TI-2230	1191-6CN562	---	---	3/8-24	0.562	1	
TI-160	1185-2CN164	---	---	8-32	0.164	1	TI-2240	1191-6CN750	---	---	3/8-24	0.75	1	
TI-170	1185-2CN246	TI-770	3585-2CN246	8-32	0.246	1	TI-2250	1191-7CN438	---	---	7/16-20	0.438	1	
TI-180	1185-2CN328	TI-780	3585-2CN328	8-32	0.328	1	TI-2260	1191-7CN656	---	---	7/16-20	0.656	1	
TI-190	1185-3CN190	---	---	10-24	0.19	1	TI-2270	1191-7CN875	---	---	7/16-20	0.875	1	
TI-200	1185-3CN285	TI-800	3585-3CN285	10-24	0.285	1	TI-2300	1191-8CN1000	---	---	1/2-20	1	1	
TI-210	1185-3CN380	TI-810	3585-3CN380	10-24	0.38	1	TI-2320	1191-9CN844	---	---	9/16-18	0.844	1	
TI-250	1185-4CN250	TI-850	3585-4CN250	1/4-20	0.25	1	TI-2340	1191-10CN625	---	---	5/8-18	0.625	1	
TI-260	1185-4CN375	TI-860	3585-4CN375	1/4-20	0.375	1	TI-2350	1191-10CN938	---	---	5/8-18	0.938	1	
TI-270	1185-4CN500	TI-870	3585-4CN500	1/4-20	0.5	1	TI-2370	1191-12CN750	---	---	3/4-16	0.75	1	
TI-280	1185-5CN312	---	---	5/16-18	0.312	1	TI-2380	1191-12CN1125	---	---	3/4-16	1.125	1	
TI-290	1185-5CN469	TI-890	3585-5CN469	5/16-18	0.469	1	<b>Metric</b>							
TI-300	1185-5CN625	---	---	5/16-18	0.625	1	TI-3070	1084-5CN050	---	---	M5 x .8	5.0	1	
TI-310	1185-6CN375	---	---	3/8-16	0.375	1	TI-3080	1084-5CN075	---	---	M5 x .8	7.5	1	
TI-320	1185-6CN562	TI-920	3585-6CN562	3/8-16	0.562	1	TI-3090	1084-5CN100	---	---	M5 x .8	10.0	1	
TI-330	1185-6CN750	TI-930	3585-6CN750	3/8-16	0.75	1	TI-3100	1084-6CN060	---	---	M6 x 1.0	6.0	1	
TI-350	1185-7CN656	---	---	7/16-14	0.656	1	TI-3110	1084-6CN090	TI-3700	4184-6CN090	M6 x 1.0	9.0	1	
TI-370	1185-8CN500	---	---	1/2-13	0.5	1	TI-3120	1084-6CN120	TI-3710	4184-6CN120	M6 x 1.0	12.0	1	
TI-380	1185-8CN750	TI-980	3585-8CN750	1/2-13	0.75	1	TI-3160	1084-8CN080	---	---	M8 x 1.25	8.0	1	
TI-390	1185-8CN1000	TI-990	3585-8CN1000	1/2-13	1	1	TI-3170	1084-8CN120	TI-3760	4184-8CN120	M8 x 1.25	12.0	1	
TI-440	1185-10CN938	---	---	5/8-11	0.938	1	TI-3180	1084-8CN160	TI-3770	4184-8CN160	M8 x 1.25	16.0	1	
TI-470	1185-12CN1125	---	---	3/4-10	1.125	1	TI-3190	1084-10CN100	---	---	M10 x 1.5	10.0	1	
TI-8110	3695-04	4-40, 5-40	1	TI-8140*	3695-3	10-24, 10-32, 12-24	1	TI-3200	1084-10CN150	---	---	M10 x 1.5	15.0	1
TI-8120	3695-06	6-32	1	TI-8150*	3695-4	1/4-20	1	TI-3210	1084-10CN200	TI-3800	4184-10CN200	M10 x 1.5	20.0	1
TI-8130	3695-2	8-32	1	TI-8310	4238-5	M5	1	TI-3220	1084-12CN120	---	---	M12 x 1.75	12.0	1
TI-8160	3695-5	5/16-18	1	TI-8320	4238-6	M6	1	TI-3230	1084-12CN180	---	---	M12 x 1.75	18.0	1
---	---	---	---	TI-8340	4238-8	M8	1	TI-3240	1084-12CN240	---	---	M12 x 1.75	24.0	1

## Tang Break Off Tools



The driving tangs of Helicoil inserts must be removed to prevent interference with the end of the assembled bolt. For inserts over 1/2" use long nose pliers.

Item No.	Helicoil	Thread	Pack Qty.	Item No.	Helicoil	Thread	Pack Qty.
<b>Coarse Threads</b>				<b>Fine &amp; Coarse Threads</b>			
TI-8105	3695-02	2-56, 3-48	1	TI-8140*	3695-3	10-24, 10-32, 12-24	1
TI-8110	3695-04	4-40, 5-40	1	TI-8150*	3695-4	1/4-20	1
TI-8120	3695-06	6-32	1	<b>Metric Threads</b>			
TI-8130	3695-2	8-32	1	TI-8310	4238-5	M5	1
TI-8160	3695-5	5/16-18	1	TI-8320	4238-6	M6	1
---	---	---	---	TI-8340	4238-8	M8	1

\*TI-8140 and TI-8150 can be used on both coarse and fine threads.

## Extracting Tools



The extracting tools are used to remove Helicoil inserts. This is done by applying the tool to the insert, striking the head of tool and turning it counter clockwise.

Item No.	Helicoil	Thread	Pack Qty.
TI-8005	1227-02	#2	1
TI-8010	1227-06	#3 to #8	1
TI-8020	1227-6	#10 to 3/8, M5 to M10	1
TI-8030	1227-16	7/16 to 1; M11 to M24	1





Press Inserts for Plastics

Use for cored or drilled holes in plastics. Designed to replace molded-in inserts and threads in plastic castings. Provides clean threads and screw locking action not obtainable in molded-in inserts. Saves time and money. Available in brass or Type 303 stainless steel.

Press Inserts for Plastics Headless

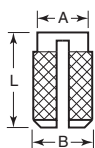
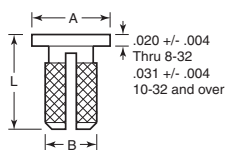


Table with columns: Brass, Stainless, Item No., Internal Thread, +/- .010 A, +/- .004 B, +/- .010 L, Starting Hole Size, Pack Qty. Lists various part numbers and specifications.

Note: Hole sizes are based on average materials and torque requirements.

Note 2: Hole sizes may vary with the material used and the screw dimensions may vary with different standards.

Press Inserts for Plastics Headless



Recommended for use in terminal strips and like applications in electronic assemblies.

Table with columns: Brass, Stainless, Item No., Internal Thread, +/- .010 A, +/- .004 B, +/- .010 L, Starting Hole Size, Pack Qty. Lists various part numbers and specifications.

Note: Hole sizes are based on average materials and torque requirements.

Note 2: Hole sizes may vary with the material used and the screw dimensions may vary with different standards.

Knife Thread Inserts for Wood

Superior holding power in hard and soft woods, particle board and other wood products. Long pilot assures straight driving into a drilled hole. Install with screw driver, bolt and nut, tapping head or E-Z Lok power drive tool. Brass only.



Table with columns: Item No., Internal Thread Size, Overall Length, Major Dia. External Thd., Hole Size, Drive Tool Used, Pack Qty. Lists various part numbers and specifications for coarse and fine threads, and metric sizes.

Hex Drive Inserts for Wood



Inexpensive inserts for use in ready-to-assemble furniture, drawer pulls, etc. Install with hex drive wrench or E-Z Lok power drive tool. Die cast zinc alloy.

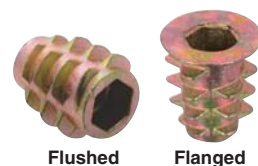
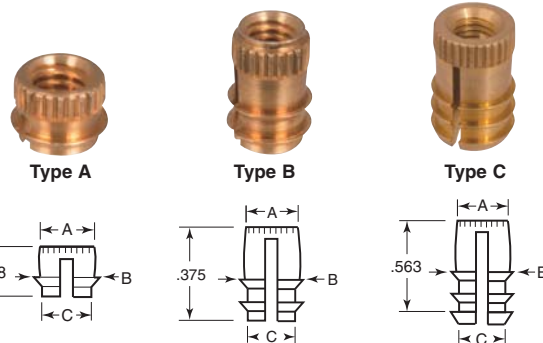


Table with columns: Flushed, Flanged, Item No., Internal Thread, Lgth., Hole Size, Hex Size, Drive Tool Used, Pack Qty. Lists various part numbers and specifications.

Brass Finserts for Wood or Plastics



Provides strong metal threads for wood, composition board and thermoplastics such as nylon, polystyrene, cellulose, acetate and cicolac. Firm, permanent fastening is assured by distributing stress over a greater surface area. Fins give higher holding strength in softer materials and prevents splintering, splitting and thread pullout.

Table with columns: Item No., Type, Thread Size, A, B, C, Starting Hole Size, Pack Qty. Lists various part numbers and specifications.

Thread Repair Kits Installation Kits



This kit provides a complete thread repair solution with the right size drill and tap for the needed insert. Each kit includes 20 inserts, one tap, one drill and an installation tool.

Table with columns: Item No., Internal Thread, Drill Size, Tap Size, Pack Qty. Lists various part numbers and specifications.



# THREAD INSERTS & REPAIR KITS

## Self-Locking Individual Inserts

Automatic self-locking external thread with use-activated epoxy adhesive.



- Prevent/repair stripped threads.
- No special tools required.
- Install with bolt and wrench or screwdriver
- Power drive tools available for volume use

E-Z LOK

Item No.	Internal Thread Size	Tap Drill Size	Tap Size External Thread	Lgth.	Drive Tool Used	Pack Qty.	Item No.	Internal Thread Size	Tap Drill Size	Tap Size External Thread	Lgth.	Drive Tool Used	Pack Qty.
<b>Steel - Thin Wall - Coarse Thread</b>							<b>303 Stainless Steel Passivated - Coarse Thread</b>						
319-3	10-24	.272	5/16-18	.312	500-2	1	303-4	1/4-20	23/64	7/16-14	.437	500-3	1
319-4	1/4-20	.332	3/8-16	.375	500-3	1	303-5	5/16-18	27/64	1/2-13	.484	500-4	1
319-5	5/16-18	.397	7/16-14	.437	500-4	1	303-6	3/8-16	31/64	9/16-12	.515	500-5	1
319-6	3/8-16	.453	1/2-13	.500	500-5	1	303-7	7/16-14	17/32	5/8-11	.656	500-6	1
319-7	7/16-14	.516	9/16-12	.560	500-6	1	303-8	1/2-13	21/32	3/4-10	.656	500-7	1
319-8	1/2-13	.578	5/8-11	.620	500-7	1	303-10	5/8-11	49/64	7/8-9	.687	500-8	1
<b>Steel - Thin Wall - Fine Thread</b>							<b>303 Stainless Steel Passivated - Fine Thread</b>						
319-332	10-32	.272	5/16-18	.312	500-2	1	303-12	3/4-10	7/8	1-8	.781	500-9	1
319-428	1/4-28	.332	3/8-16	.375	500-3	1	303-332	10-32	5/16	3/8-16	.406	500-2	1
319-524	5/16-24	.397	7/16-14	.437	500-4	1	303-428	1/4-28	29/64	7/16-14	.437	500-3	1
319-624	3/8-24	.453	1/2-13	.500	500-5	1	303-624	3/8-24	31/64	9/16-12	.515	500-5	1
319-720	7/16-20	.516	9/16-12	.560	500-6	1	303-720	7/16-20	17/32	5/8-11	.656	500-6	1
319-820	1/2-20	.578	5/8-11	.620	500-7	1	303-820	1/2-20	21/32	3/4-10	.656	500-7	1
<b>Steel - Coarse Thread</b>							<b>Steel</b>						
329-004	4-40	5/32	10-32	.250	—	1	550-006	6-32	5.1	M6 x 1.0	6.5	—	1
329-006	6-32	#7	1/4-20	.280	—	1	550-008	8-32	6.9	M8 x 1.25	7.5	500-1	1
329-008	8-32	F	5/16-18	.290	500-1	1	550-3	10-24	8.6	M10 x 1.5	10.5	500-2	1
329-3	10-24	5/16	3/8-16	.406	500-2	1	550-332	10-32	8.6	M10 x 1.5	10.5	500-2	1
329-4	1/4-20	23/64	7/16-14	.437	500-3	1	550-4	1/4-20	10.4	M12 x 1.75	12.5	500-3	1
329-5	5/16-18	27/64	1/2-13	.484	500-4	1	550-5	5/16-18	10.4	M12 x 1.75	12.5	500-4	1
329-6	3/8-16	31/64	9/16-12	.515	500-5	1	550-6	3/8-16	14.0	M16 x 2.0	17.0	500-5	1
329-7	7/16-14	17/32	5/8-11	.656	500-6	1	550-8	7/16-13	14.0	M16 x 2.0	17.0	500-7	1
329-8	1/2-13	21/32	3/4-10	.656	500-7	1	650-6	M6 x 1.0	5.1	3/8-16	.406	500-3	1
329-9	9/16-12	21/32	3/4-10	.656	500-7	1	650-8	M8 x 1.25	27/64	1/2-13	.484	500-4	1
329-10	5/8-11	49/64	7/8-9	.687	500-8	1	650-10	M10 x 1.50	31/64	9/16-12	.515	500-5	1
329-1018	5/8-11	49/64	7/8-9	1.125	500-8	1	650-10F	M10 x 1.25	31/64	9/16-12	.515	500-5	1
329-12	3/4-10	7/8	1-8	.781	500-9	1	650-12	M12 x 1.75	21/32	3/4-10	.656	500-6	1
329-14	7/8-9	1 1/64	1 1/4-7	1.125	—	1	650-14	M14 x 2.0	49/64	7/8-9	.687	500-7	1
329-16	1-8	1 1/32	1 3/8-12	1.250	—	1	650-16	M16 x 2.0	7/8	1-8	.781	500-8	1
<b>Steel - Fine Thread</b>							<b>303 Stainless Steel Passivated</b>						
329-332	10-32	5/16	3/8-16	.406	500-2	1	450-3	M3 x .5	5.1	M6 x 1.0	6.5	—	1
329-428	1/4-28	23/64	7/16-14	.437	500-3	1	450-4	M4 x .7	6.9	M8 x 1.25	7.5	500-1	1
329-524	5/16-24	27/64	1/2-13	.484	500-4	1	450-5	M5 x .8	6.9	M8 x 1.25	7.5	500-1	1
329-624	3/8-24	31/64	9/16-12	.515	500-5	1	450-6	M6 x 1.0	8.6	M10 x 1.5	10.5	500-3	1
329-720	7/16-20	17/32	5/8-11	.656	500-6	1	450-8	M8 x 1.25	10.4	M12 x 1.74	12.5	500-4	1
329-820	1/2-20	21/32	3/4-10	.656	500-7	1	450-10	M10 x 1.5	14.0	M16 x 2.0	17.0	500-5	1
329-918	9/16-18	21/32	3/4-10	.656	500-7	1	450-12	M12 x 1.75	14.0	M16 x 2.0	17.0	500-6	1
329-10F	5/8-18	49/64	7/8-9	.687	500-8	1	450-16	M16 x 2.0	21.0	M24 x 3.0	20.0	500-8	1
329-1216	3/4-16	7/8	1-8	.781	500-9	1	450-20	M20 x 2.5	33.0	M36 x 4.0	30.0	—	1
329-1614	1-14	1 1/32	1 3/8-12	1.250	—	1	<b>303 Stainless Steel Passivated</b>						
335-4	1/4-20	27/64	1/2-13	.484	500-3	1	653-6	M6 x 1.0	5.1	3/8-16	.406	500-3	1
335-5	5/16-18	31/64	9/16-12	.515	500-4	1	653-8	M8 x 1.25	27/64	1/2-13	.484	500-4	1
335-6	3/8-16	17/32	5/8-11	.656	500-5	1	653-10	M10 x 1.50	31/64	9/16-12	.515	500-5	1
335-8	1/2-13	49/64	7/8-9	.687	—	1	653-10F	M10 x 1.25	31/64	9/16-12	.515	500-5	1
335-10	5/8-11	7/8	1-8	.781	—	1	653-12	M12 x 1.75	21/32	3/4-10	.656	500-6	1
<b>303 Stainless Steel Passivated - Coarse Thread</b>							<b>303 Stainless Steel Passivated - Coarse Thread</b>						
303-004	4-40	5/32	10-32	.250	—	1	453-3	M3 x .5	5.1	M6 x 1.0	6.5	—	1
303-006	6-32	#7	1/4-20	.280	—	1	453-4	M4 x .7	6.9	M8 x 1.25	7.5	500-1	1
303-008	8-32	F	5/16-18	.290	500-1	1	453-5	M5 x .8	6.9	M8 x 1.25	7.5	500-1	1
303-3	10-24	5/16	3/8-16	.406	500-2	1	453-6	M6 x 1.0	8.6	M10 x 1.5	10.5	500-3	1
453-3	10-24	5/16	3/8-16	.406	500-2	1	453-8	M8 x 1.25	10.4	M12 x 1.74	12.5	500-4	1
453-4	1/4-20	23/64	7/16-14	.437	500-3	1	453-10	M10 x 1.5	14.0	M16 x 2.0	17.0	500-5	1
453-5	5/16-18	27/64	9/16-12	.515	500-4	1	453-12	M12 x 1.75	14.0	M16 x 2.0	17.0	500-6	1
453-6	3/8-16	31/64	1/2-13	.515	500-5	1							
453-7	7/16-14	17/32	5/8-11	.656	500-6	1							
453-8	1/2-13	21/32	3/4-10	.656	500-7	1							
453-9	9/16-12	21/32	3/4-10	.656	500-7	1							
453-10	5/8-11	49/64	7/8-9	.687	500-8	1							
453-11	1-8	7/8	1-8	.781	500-9	1							
453-12	1 1/4-7	1 1/64	1 3/8-12	1.250	—	1							

## Thread Inserts Repair Kits



Item No.	Internal Thread Sizes	Pack Qty.
<b>Steel - Coarse Thread</b>		
EZ-C108	10 each of 10-24, 1/4-20, 5/16-18, 3/8-16 6 each of 1/2-13 6 each of 1/2-13	1
EZ-C816	7 each of 5/8-11, 3/4-10 2 each of 1-8	1
<b>Steel - Fine Thread</b>		
EZ-F108	10 each of 10-32, 1/4-28, 5/16-24, 3/8-24 6 each of 1/2-20 6 each of 1/2-20	1
EZ-F816	7 each of 5/8-18, 3/4-16 2 each of 1-14	1

## Power Drive Tools for Thread Inserts



Made of stress proof steel, the power drive tool is used for volume installation. Appropriate power tool item number is listed next to the individual E-Z LOK thread inserts for which it should be used. Cannot be used with extra heavy wall inserts.

Convenient thread repair kits containing a selection of popular sizes of E-Z LOK thread inserts.

Item No.	Internal Thread Sizes	Pack Qty.
<b>303 Stainless Steel Passivated - Coarse Thread</b>		
EZ-C303	10 each of 10-24, 1/4-20, 5/16-18, 3/8-16 6 each of 1/2-13	1
<b>303 Stainless Steel Passivated - Fine Thread</b>		
EZ-F303	10 each of 10-32, 1/4-28, 5/16-24, 3/8-24 6 each of 1/2-20	1
<b>Steel - Metric Internal / Inch External</b>		
EZ-M612	10 each of M6 x 1.0, M8 x 1.25, M10 x 1.5 6 each of M12 x 1.75	1
<b>Steel - Metric Internal and External</b>		
EZ-M100	10 each of M3 x 0.5, M4 x 0.7, M5 x 0.8, M6 x 1.0, M8 x 1.25	1
<b>Steel - Inch Internal / Metric External</b>		
EZ-M508	10 each of 10-24, 1/4-20, 5/16-18, 3/8-16 6 each of 1/2-13	1
<b>303 Stainless Steel Passivated - Metric Internal and External</b>		
EZ-M103	10 each of M3 x 0.5, M4 x 0.7, M5 x 0.8, M6 x 1.0, M8 x 1.25	1

E-Z LOK

Item No.	For Internal Thread Sizes	Pack Qty.	Item No.	For Internal Thread Sizes	Pack Qty.
500-0	6-32	1	500-7	1/2-13, 1/2-20, 5/16-12, M14	1
500-1	8-32, M4, M5	1	500-8	5/8-11, 3/8-18, M16	1
500-2	10-24, 10-32	1	500-9	3/4-10, 3/4-16	1
500-3	1/4-20, 1/4-28, M6	1	500-11	1/4-20 Hex	1
500-4	5/16-18, 5/16-24, M8	1	500-12	M5 Hex	1
500-5	3/8-16, 3/8-24, M10	1	500-13	M8 Hex	1
500-6	7/16-14, 7/16-20, M12	1	500-14	M10 Hex	1



**Assorted Mandrels and Nosepieces For ALC-39200 Thread-Setter Tool**



Item No.	Thread Size	Pack Qty.
<b>Mandrels</b>		
ALC-39254	6-32	1
ALC-39255	8-32	1
ALC-39256	10-24	1
ALC-39257	10-32	1
ALC-39258	1/4-20	1
ALC-39259	5/16-18	1
ALC-39260	3/8-16	1
ALC-39266	4mm	1
ALC-39267	5mm	1
ALC-39268	6mm	1
ALC-39269	8mm	1
<b>Nosepieces</b>		
ALC-39261	6-32	1
ALC-39262	8-32	1
ALC-39263	10-24, 10-32	1
ALC-39273	5mm	1
ALC-39274	4mm	1

**Hand Tools & Kits Assorted Steel Klik Thread-Serts**



Thread-setter tool with 6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18 and 3/8-16 mandrels and nosepieces, wrench and instructions. Contains 10 each of ALC-47810, ALC-47820, ALC-47830, ALC-47840, ALC-47850; 6 each of ALC-47871, ALC-47981. Plastic case.

Item No.	Description	Pack Qty.
ALC-39214	Assorted Steel Klik Thread-Serts	1

**Hand Tools & Kits Assorted Ribbed Style Rivet Nuts**



Thread-setter tool with 8-32, 10-24, 10-32, and 1/4-20 mandrels and nosepieces, wrench and instructions. Contains 12 each of ALC-47320, ALC-47330, ALC-47340; 8 each of ALC-47350 and 6 each ALC-47354. Plastic case.

Item No.	Description	Pack Qty.
ALC-39215	Ribbed Rivet Nut & Tool Assortment	1

**Hand Tools & Kits Assorted Ribbed Style Metric Rivet Nuts**



Thread-setter tool with 4, 5 and 6mm mandrels and nosepieces, wrench and instructions. Contains 12 each of ALC-47360, ALC-47384, ALC-47385; 8 each ALC-47386 and 6 each ALC-47387. Plastic case.

Item No.	Description	Pack Qty.
ALC-39216	Ribbed Rivet Nut & Tool Assortment	1

These threaded inserts are screwed into preformed or predrilled holes and cut their own threads into the wall for permanent installation. Eliminates the time and expense of tapping. Provides a strong wear and vibration resistant thread. The steel inserts are hardened with a zinc and clear chromate finish. Stainless are type 303. Can be installed with hand installation tools sold below. Hole size listed below is for reference only. Optimum hole size to be determined through experimentation. A 60 degrees countersink is required for flush mounting.

**Self Tapping Thread Inserts Steel and Stainless**

For use in aluminum, aluminum alloy, magnesium and mild steel.

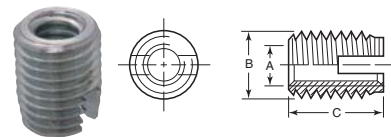


Steel Item No.	Stainless Item No.	Int. Thd. A	B	C	Hole Size	Hole Depth	Pack Qty.
STI-330	STI-430	10-24	.315	.276	.291	.354	1
STI-335	STI-435	10-24	.315	.394	.291	.512	1
STI-340	STI-440	1/4-20	.394	.315	.366	.394	1
STI-345	STI-445	1/4-20	.394	.472	.366	.591	1
STI-350	STI-450	5/16-18	.473	.354	.437	.433	1
STI-355	STI-455	5/16-18	.473	.551	.437	.669	1
STI-360	STI-460	3/8-16	.552	.394	.516	.512	1
STI-365	STI-465	3/8-16	.552	.709	.516	.866	1
—	STI-410	6-32	.236	.197	.216	.276	1
—	STI-420	8-32	.256	.236	.236	.315	1
—	STI-425	8-32	.256	.315	.236	.394	1

Note: Hole Size +.003/-.000 for reference only.

**Self Tapping Thread Inserts Steel and Stainless**

For use in plastics, light metal alloys and hard wood.

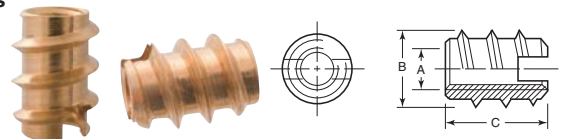


Steel Item No.	Stainless Item No.	Int. Thd. A	B	C	Hole Size Plastics/Hardwoods	Hole Size Soft Metals	Hole Depth	Pack Qty.
—	STI-110	6-32	.236	.315	.208	.216	.394	1
—	STI-115	8-32	.256	.315	.228	.236	.394	1
STI-20	STI-120	10-24	.315	.394	.279	.287	.512	1
STI-25	STI-125	1/4-20	.394	.551	.338	.350	.669	1
STI-30	STI-130	5/16-18	.473	.59	.417	.429	.709	1
STI-35	STI-135	3/8-16	.552	.709	.496	.508	.866	1

Note: Hole Size +.003/-.000 for reference only.

**Self Tapping Thread Inserts Brass**

For use in hard and soft wood, particle board and soft plastics.



Item No.	Int. Thd. A	B	C	Hole Size Softwood	Hole Size Hardwood/Plastics	Hole Depth	Pack Qty.
STI-210	6-32	.256	0.315	.181	.185	0.394	1
STI-215	8-32	.276	0.394	.201	.205	0.512	1
STI-225	1/4-20	.394	0.551	.300	.303	0.669	1
STI-230	5/16-18	.512	0.787	.390	.398	0.906	1
STI-235	3/8-16	.630	0.905	.488	.496	1.024	1

Note: Hole Size +.003/-.000 for reference only.

**Self Tapping Thread Inserts Hand Installation Tools**



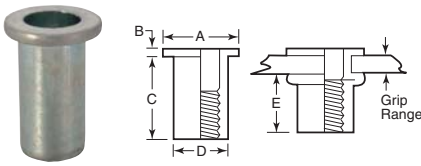
These installation tools are good for low volume use. For very low volume, a bolt with a nut can be used.

Item No.	Thread	A	Square End	Pack Qty.	Item No.	Thread	A	Square End	Pack Qty.
STI-910	6-32	2.36	.197	1	STI-915	8-32	2.36	.197	1
STI-930	5/16-18	2.95	.315	1	STI-925	1/4-20	2.95	.315	1
STI-935	3/8-16	3.74	.492	1					





**Klik Rivet Nuts - Standard**

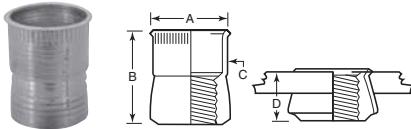


Can be used in blind or through hole applications.

These inserts feature a heavy duty head profile and increased thickness in the collapse area. Steel with cadmium plating.

Item No.	Thread	Grip Range	+ .003/ -.000 Hole Size	A	B	C	D	E	Pack Qty.
ALC-47121	6-32	.075-.120	#2	.357	.032	.500	.221	.315	1
ALC-47140	10-32	.010-.080	1/4	.406	.038	.531	.250	.380	1
ALC-47142	10-32	.080-.130	1/4	.406	.038	.594	.250	.390	1
ALC-47150	1/4-20	.020-.080	Q	.475	.058	.625	.332	.450	1
ALC-47152	1/4-20	.080-.140	Q	.475	.058	.687	.332	.450	1
ALC-47154	1/4-20	.140-.200	Q	.475	.058	.750	.332	.450	1
ALC-47171	5/16-18	.030-.125	Z	.665	.062	.750	.413	.505	1

**Klik Thread-Serts Individual Inserts**

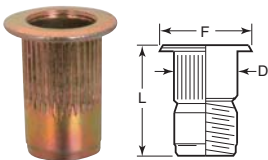


Can be used in blind or through hole applications. Unique because

these inserts fit into most any material above 1/32" in thickness. As the insert is installed, the threaded portion is completely swaged 360 degree into the sleeve portion of the hole. This permits these inserts to be used with Grade 8 mating screws. The installation hole size is determined by the thickness and density of the parent material. Cadmium finish.

Item No.	Thread	Head Width A	Length B	Body Width C	D	Min. Hole Depth	Pack Qty.
ALC-47810	6-32	.250	.375	.215	.205	.40	1
ALC-47820	8-32	.282	.375	.246	.205	.40	1
ALC-47830	10-24	.314	.375	.277	.205	.40	1
ALC-47840	10-32	.314	.375	.277	.205	.40	1
ALC-47871	5/16-18	.537	.615	.496	.325	.64	1
ALC-47881	3/8-16	.660	.740	.559	.390	.77	1

**Klik Rivet Nuts - Ribbed Individual Inserts Inch and Metric**



These blind thread inserts offer strong torque and pull out characteristics.

Especially effective in sheet metal and other thin material operations. The insert is placed in the parent material hole and crimped up with the installation tool. Installs from one side and no tapping is required. Installs nearly flush eliminating counter sinking. Made from plated steel. Metric dimensions are show in millimeters.

Item No.	Thread	Grip Range	+ .006/- .000 Hole Size	D	F	L	M	Pack Qty.
<b>Inch</b>								
ALC-47310	6-32	.020-.080	1/64	.265	.375	.433	.275	1
ALC-47312	6-32	.080-.130	1/64	.265	.375	.484	.275	1
ALC-47320	8-32	.020-.080	1/64	.265	.375	.433	.275	1
ALC-47321	8-32	.080-.130	1/64	.265	.375	.484	.275	1
ALC-47330	10-24	.020-.130	1/64	.296	.400	.488	.300	1
ALC-47332	10-24	.130-.225	1/64	.296	.400	.594	.300	1
ALC-47340	10-32	.020-.130	1/64	.296	.400	.488	.300	1
ALC-47342	10-32	.130-.225	1/64	.296	.400	.594	.300	1
ALC-47350	1/4-20	.027-.165	2/64	.390	.500	.590	.355	1
ALC-47354	1/4-20	.165-.260	2/64	.390	.500	.692	.355	1
ALC-47371	5/16-18	.027-.150	1/32	.530	.670	.690	.430	1
ALC-47381	3/8-16	.027-.150	1/32	.530	.670	.690	.430	1
<b>Metric</b>								
ALC-47360	M4 x .7	.50-2.0	6.8	6.75	9.50	10.9	7.00	1
ALC-47384	M5 x .8	3.30-5.70	7.6	7.55	10.10	15.0	7.60	1
ALC-47385	M5 x .8	.50-3.30	7.6	7.55	10.10	12.3	7.60	1
ALC-47386	M6 x 1.0	.70-4.20	10.0	9.90	12.70	14.9	9.00	1
ALC-47388	M8 x 1.25	.70-3.80	13.5	13.45	17.00	17.5	11.00	1
ALC-47389	M8 x 1.25	3.80-7.90	13.5	13.45	17.00	20.4	11.00	1
ALC-47390	M10 x 1.5	.70-3.80	13.5	13.45	17.00	17.5	11.00	1
ALC-47391	M10 x 1.5	3.80-7.90	13.5	13.45	17.00	20.4	11.00	1

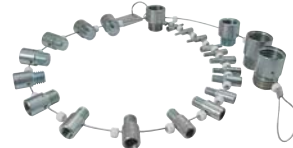
**Thread Verifiers**



SAE and Metric Wall Mount



SAE and Metric



SAE



Metric

**SAE and Metric**

- 26 female and 26 male thread verifiers on a steel cable for hanging
- SAE (bright finish) #6-32, #8-32, 5/16-32, 5/16-24, 1/4-28, 1/4-20, 5/16-24, 5/16-18, 3/8-24, 3/8-16, 7/16-20, 7/16-14, 1/2-20, 1/2-13 inch
- Metric (black finish) M4x0.7, M5x0.8, M6x1.0, M7x1.0, M8x1.0, M8x1.25, M10x1.0, M10x1.25, M10x1.50, M12x1.25, M12x1.5, M12x1.75 mm

**SAE**

- 23 female and 23 male thread verifiers on a steel cable for hanging
- SAE (bright finish) #6-32, #6-40, #8-32, #10-24, #10-32, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 5/16-12, 5/16-18, 5/8-11, 5/8-18, 3/4-10, 3/4-16, 1-8, 1-12 inch

**Metric**

- 21 female and 21 male thread verifiers on a steel cable for hanging
- Metric (black finish) M3x0.5, M4x0.7, M5x0.8, M6x1.0, M7x1.0, M8x1.0, M8x1.25, M10x1.0, M10x1.25, M10x1.5, M12x1.25, M12x1.5, M12x1.75, M14x1.5, M14x2.0, M16x1.5, M16x2.0, M20x1.5, M20x2.5, M24x2.0, M24x3.0 mm

**SAE and Metric (Wall Mount)**

- 28 female and 28 male thread verifiers on a wall mount
- SAE (bright finish) #6-32, #8-32, #10-24, #10-32, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 5/16-12, 5/16-18 inch
- Metric (black finish) M4x0.7, M5x0.8, M6x1.0, M7x1.0, M8x1.0, M8x1.25, M10x1.0, M10x1.25, M10x1.5, M12x1.25, M12x1.5, M12x1.75 mm

Item No.	Description	Pack Qty.
TV-26	SAE and Metric Thread Verifier	1
TV-27	Inch Thread Verifier	1
TV-28	Metric Thread Verifier	1
TV-29	Wall Mount Thread Verifier	1