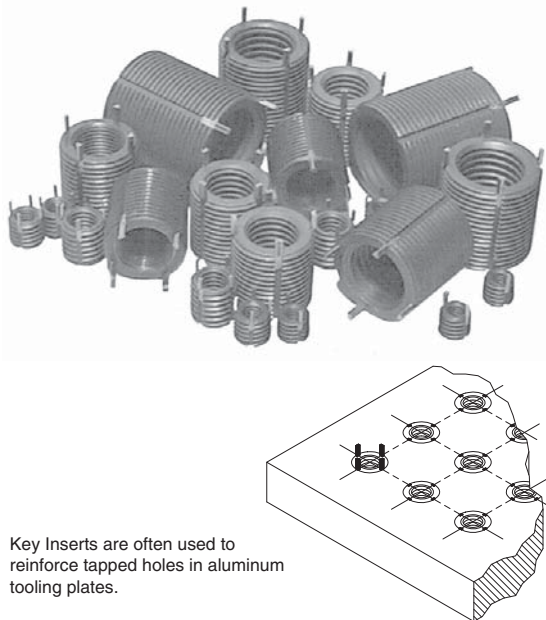


KEY INSERTS

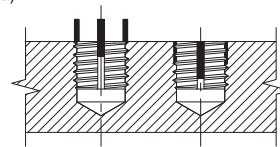


Key Inserts are often used to reinforce tapped holes in aluminum tooling plates.

These key-locking threaded inserts are ideal for thread reinforcement, especially when the mating stud or bolt will be removed frequently. They provide strong, permanent steel threads in any parent material — ferrous, non-ferrous, or non-metallic.

Key Inserts are also well suited for quick repair of stripped, damaged, or worn threads. A solid version is also available to use as a handy plug to relocate holes drilled or tapped on the wrong location.

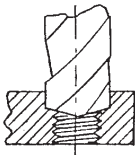
Install with standard drills and taps. **Important:** Use tap drill specified in table (slightly larger than standard for that thread size). Tap-drill hole tolerance should be $-.001/+0.004$ ($-.001/+0.005$ above .500 dia).



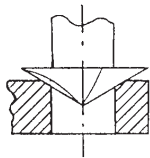
Locking keys are driven down into the parent material during installation, providing a positive mechanical lock against rotation. Inserts with an ID thread 5/16 and above have four locking keys, smaller sizes have two. Pull-out strength can be calculated approximately by the following formula:

$$\text{Approximate pull-out strength} = \frac{\text{Shear engagement area of insert}}{\text{(see table)}} \times \text{Minimum ultimate shear strength of parent material (psi)}$$

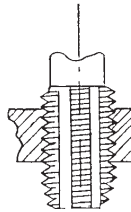
EASY INSTALLATION



1. Drill out old threads using tap drill specified in table (**Important:** Correct tap drill is slightly larger than standard for that thread size).



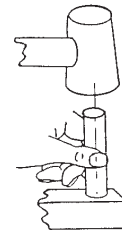
2. Countersink to diameter shown in table.



3. Tap new threads, using standard tap.

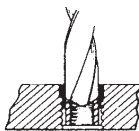


4. Screw in insert until body is slightly (.010 to .030 inches) below the surface, by hand or using installation tool. Keys act as a depth stop.

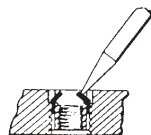


5. Drive keys down with several light hammer taps on installation tool (or directly on keys if no installation tool is available).

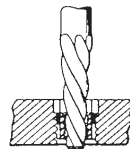
EASY REMOVAL



1. Drill out locking keys with specified drill diameter and depth (see table).



2. Deflect keys inward and break off.



3. Remove insert with an E-Z OUT type tool.



4. Screw replacement into original holes. Parent material is totally undamaged.

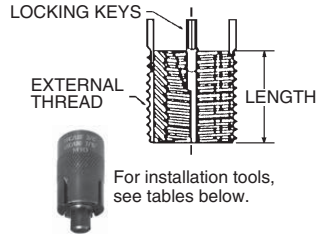
KEY INSERTS HEAVY DUTY

BODY: 1215 STEEL, BLACK OXIDE FINISH. KEYS: 302 STAINLESS STEEL



Heavy Duty – Steel

General-purpose threaded inserts suitable for most applications. Available in USA ID-thread sizes from #10-24 to 1-1/2"-12, plus metric sizes from M5 to M24. **Important:** Use tap drill specified in table (slightly larger than standard for that thread size).



For installation tools, see tables below.



Repair Kits shown below contain an installation tool and several Key Inserts of a given size.

HEAVY DUTY – STEEL (USA)

PART NO.	INSERT DIMENSIONS				INSTALLATION DATA						REMOVAL DATA		
	INTERNAL THREAD	EXTERNAL THREAD	LENGTH	SHEAR ENGAG. (SQ. IN.)	REQ'D TAP DRILL	C'SINK DIA	MIN. THREAD DEPTH	STANDARD TAP UN-2B	INSTALLATION TOOL PART NO.	REPAIR KIT PART NO.	INSERTS PER KIT	DRILL SIZE	DRILL DEPTH
CL-1024-KS	#10-24												
CL-1032-KS	#10-32	3/8-16	.31	.190	Q	3/8	3/8	3/8-16	CL-10-KST	CL-1024-KSK CL-1032-KSK	15	9/32	1/8
CL-1420-KS	1/4-20												
CL-1428-KS	1/4-28	7/16-14	.37	.284	X	7/16	7/16	7/16-14	CL-14-KST	CL-1420-KSK CL-1428-KSK	13	11/32	3/16
CL-51618-KS	5/16-18												
CL-51624-KS	5/16-24	1/2-13	.43	.359	29/64	1/2	1/2	1/2-13	CL-516-KST	CL-51618-KSK CL-51624-KSK	8	13/32	3/16
CL-3816-KS	3/8-16												
CL-3824-KS	3/8-24	9/16-12	.50	.498	33/64	9/16	9/16	9/16-12	CL-38-KST	CL-3816-KSK CL-3824-KSK	6	15/32	3/16
CL-71614-KS	7/16-14												
CL-71620-KS	7/16-20	5/8-11	.62	.717	37/64	5/8	11/16	5/8-11	CL-716-KST	CL-71614-KSK CL-71620-KSK	6	17/32	3/16
CL-1213-KS	1/2-13												
CL-1220-KS	1/2-20	3/4-16	.62	1.057	45/64	3/4	11/16	3/4-16	CL-12-KST	CL-1213-KSK CL-1220-KSK	5	21/32	3/16
CL-91612-KS	9/16-12												
CL-91618-KS	9/16-18	3/4-16	.81	1.057	45/64	3/4	7/8	3/4-16	CL-12-KST	CL-91612-KSK CL-91618-KSK	3	21/32	3/16
CL-5811-KS	5/8-11												
CL-5818-KS	5/8-18	7/8-14	.87	1.487	53/64	7/8	1	7/8-14	CL-58-KST	CL-5811-KSK CL-5818-KSK	2	25/32	3/16
CL-3410-KS	3/4-10												
CL-3416-KS	3/4-16	1-1/8"-12	1.12	2.490	1-1/16	1-1/8	1-5/16	1-1/8"-12	CL-34-KST	CL-3410-KSK CL-3416-KSK	2	31/32	5/16
CL-789-KS	7/8-9												
CL-7814-KS	7/8-14	1-1/4"-12	1.25	3.137	1-3/16	1-1/4	1-7/16	1-1/4"-12	CL-34-KST	CL-789-KSK CL-7814-KSK	2	1-3/32	5/16
CL-18-KS	1"-8												
CL-112-KS	1"-12	1-3/8"-12	1.37	3.838	1-5/16	1-3/8	1-9/16	1-3/8"-12	CL-1-KST	CL-18-KSK CL-112-KSK	2	1-7/32	5/16
CL-1187-KS	1-1/8"-7												
CL-11812-KS	1-1/8"-12	1-1/2"-12	1.62	4.752	1-7/16	1-1/2	1-11/16	1-1/2"-12	CL-118-KST	CL-1187-KSK CL-11812-KSK	2	1-11/32	5/16
CL-1147-KS	1-1/4"-7												
CL-11412-KS	1-1/4"-12	1-5/8"-12	1.81	5.446	1-35/64	1-5/8	2	1-5/8"-12	CL-114-KST	CL-1147-KSK CL-11412-KSK	2	1-15/32	5/16
CL-1126-KS	1-1/2"-6												
CL-11212-KS	1-1/2"-12	1-7/8"-12	2.00	7.103	1-51/64	1-7/8	2-3/16	1-7/8"-12	CL-112-KST	CL-1126-KSK CL-11212-KSK	2	1-23/32	5/16

HEAVY DUTY – STEEL (METRIC)

–	M5	M10x1.25											
–	M6	M12x1.25											
–	M8												
–	M8x1	M14x1.5											
–	M10												
–	M10x1.25	M16x1.5											
–	M12	M18x1.5											
–	M12x1.25												
AVAILABLE IN STAINLESS STEEL ONLY (PAGE 291)													
CLM-162-KSM	M16	M22x1.5	.87	1.390	20.5 or 13/16	.88	.96	M22x1.5	CL-58-KST	CLM-162-KSK	2	17.5mm or 11/16	1/4
CLM-1615-KSM	M16x1.5									CLM-1615-KSK			
CLM-2025-KSM	M20	M30x2	1.18	2.750	28mm or 1-7/64	1.19	1.36	M30x2	CL-34-KST	CLM-2025-KSK	2	26mm or 1-1/32	1/4
CLM-2015-KSM	M20x1.5									CLM-2015-KSK			
CLM-243-KSM	M24	M33x2	1.30	3.328	31mm or 1-7/32	1.31	1.48	M33x2	CLM-243-KSMT	CLM-243-KSK	2	29mm or 1-9/64	1/4
CLM-242-KSM	M24x2									CLM-242-KSK			

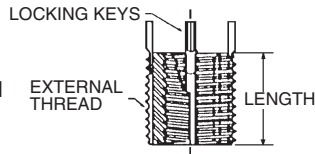
* Installation Tool included in Repair Kit.

KEY INSERTS HEAVY DUTY

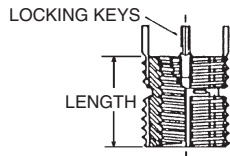
BODY: 303 STAINLESS STEEL. KEYS: 302 STAINLESS STEEL



**Heavy Duty –
Stainless Steel**



**Heavy Duty –
Stainless Steel
Internal-Thread
Locking**



Stainless steel version of our general-purpose threaded inserts with a thick, heavy-duty thread wall. Key Inserts are ideal for thread reinforcement, especially when the mating stud or bolt will be removed frequently. These stainless inserts provide strong, permanent stainless steel threads in any parent material, ferrous, non-ferrous, or non-metallic. Key Inserts are also well suited for quick repair of stripped, damaged, or worn threads. Locking keys positively prevent the insert from rotating.

Stainless Key Inserts are optionally available with "Internal Thread Locking," which uses a modified internal thread to prevent the installed bolt or stud from rotating. This feature is useful for one-time, permanent installations.

See Technical Information at the beginning of this section for complete installation steps. Key Inserts are installed with standard drills and taps. Important: Use exactly the tap-drill size specified in the tables (slightly larger than the standard tap drill for that thread size). Locking keys are driven down into the parent material during installation, providing a positive mechanical lock against rotation. See tables for optional installation tools.

HEAVY DUTY — STAINLESS STEEL (USA)

PART NO.	INSERT DIMENSIONS			INSTALLATION DATA						REMOVAL DATA		MS EQUIVALENT	NAS EQUIVALENT
	INTERNAL THREAD	EXTERNAL THREAD	LENGTH	SHEAR ENGAGEMENT (SQ. IN.)	REQ'D TAP DRILL	C'SINK DIA	MIN. THREAD LENGTH	STANDARD TAP UN-2B	INSTALLATION TOOL PART NO.	DRILL SIZE	DRILL DEPTH		
CL-1024-SKS	#10-24	3/8-16	.31	.190	.332	.385	.37	3/8-16	CL-10-KST	9/32	1/8	MS 51831-101	—
CL-1032-SKS	#10-32											MS 51831-201	NAS 1395C3
CL-1420-SKS	1/4-20	7/16-14	.37	.284	.397	.447	.43	7/16-14	CL-14-KST	11/32	3/16	MS 51831-102	—
CL-1428-SKS	1/4-28											MS 51831-202	NAS 1395C4
CL-51618-SKS	5/16-18	1/2-13	.43	.359	.453	.510	.50	1/2-13	CL-516-KST	13/32	3/16	MS 51831-103	—
CL-51624-SKS	5/16-24											MS 51831-203	NAS 1395C5
CL-3816-SKS	3/8-16	9/16-12	.50	.498	.516	.572	.56	9/16-12	CL-38-KST	15/32	3/16	MS 51831-104	—
CL-3824-SKS	3/8-24											MS 51831-204	NAS 1395C6
CL-1213-SKS	1/2-13	3/4-16	.62	1.057	.703	.750	.69	3/4-16	CL-12-KST	21/32	3/16	—	—
CL-1220-SKS	1/2-20											—	—
CL-5811-SKS	5/8-11	7/8-14	.87	1.487	.828	.885	1.00	7/8-14	CL-58-KST	25/32	3/16	MS 51831-108	—
CL-3410-SKS	3/4-10	1-1/8"-12	1.12	2.490	1.062	1.145	1.31	1-1/8"-12	CL-34-KST	31/32	5/16	MS 51831-109	—

HEAVY DUTY — STAINLESS STEEL INTERNAL THREAD LOCKING (USA)

CL-1420-SKSL	1/4-20	7/16-14	.37	.197	.397	.447	.43	7/16-14	CL-14-KST	11/32	3/16	MS 51831-102L	—
CL-51618-SKSL	5/16-18	1/2-13	.43	.261	.453	.510	.50	1/2-13	CL-516-KST	13/32	3/16	MS 51831-103L	—
CL-3816-SKSL	3/8-16	9/16-12	.50	.384	.516	.572	.56	9/16-12	CL-38-KST	15/32	3/16	MS 51831-104L	—
CL-1213-SKSL	1/2-13	11/16-11NS	.68	.737	.641	.700	.75	11/16-11NS	CL-111611-KSST	19/32	3/16	MS 51831-106L	—
CL-5811-SKSL	5/8-11	7/8-14	.87	1.242	.828	.885	1.00	7/8-14	CL-58-KST	25/32	3/16	MS 51831-108L	—

HEAVY DUTY — STAINLESS STEEL (METRIC)

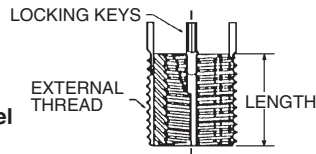
CLM-58-SKSM	M5	M10x1.25	.39	.275	8.8mm or S	.40	.45	M10x1.25	CL-10-KST	7.5mm or 19/64	.19	—	—
CLM-61-SKSM	M6	M12x1.25	.47	.413	10.8mm or 27/64	.48	.53	M12x1.25	CL-14-KST	9.5mm or 3/8	.19	—	—
CLM-8125-SKSM	M8	M14x1.5	.55	.530	13mm or 1/2	.56	.61	M14x1.5	CL-516-KST	11.5mm or 29/64	.19	—	—
CLM-81-SKSM	M8x1											—	—
CLM-1015-SKSM	M10	M16x1.5	.63	.729	15mm or 37/64	.64	.69	M16x1.5	CL-38-KST	13.5mm or 17/32	.19	—	—
CLM-10125-SKSM	M10x1.25											—	—
CLM-12175-SKSM	M12	M18x1.5	.71	.820	17mm or 21/32	.72	.77	M18x1.5	CL-12-KST	15.5mm or 39/64	.19	—	—
CLM-12125-SKSM	M12x1.25											—	—
CLM-162-SKS	M16	M22x1.5	.87	1.390	20.5mm or 13/16	.88	.96	M22x1.5	CLM-58-KSMT	17.5mm or 11/16	1/4	—	—
CLM-2025-SKS	M20	M30x2	1.18	2.750	28mm or 1-7/64	1.19	1.36	M30x2	CL-34-KST	26mm or 1-1/64	1/4	—	—
CLM-243-SKS	M24	M33x2	1.30	3.328	31mm or 1-7/32	1.31	1.48	M33x2	CLM-243-KSMT	29mm or 1-9/64	1/4	—	—

KEY INSERTS THINWALL

BODY: 12L15 STEEL, BLACK OXIDE FINISH, OR 303 STAINLESS STEEL.
KEYS: 302 STAINLESS STEEL



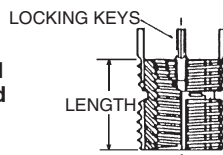
**Thinwall —
Steel and
Stainless Steel**



Thinwall Key Inserts have a smaller OD thread size than standard heavy-duty inserts, ideal for tight spaces where less pull-out strength is acceptable. Key Inserts are ideal for thread reinforcement, especially when the mating stud or bolt will be removed frequently. These stainless inserts provide strong, permanent stainless steel threads in any parent material, ferrous, non-ferrous, or non-metallic. Key Inserts are also well suited for quick repair of stripped, damaged, or worn threads. Locking keys positively prevent the insert from rotating.



**Thinwall —
Stainless Steel
Internal-Thread
Locking**



Stainless Key Inserts are optionally available with "Internal Thread Locking," which uses a modified internal thread to prevent the installed bolt or stud from rotating. This feature is useful for one-time, permanent installations.

See Technical Information at the beginning of this section for complete installation steps. Key Inserts are installed with standard drills and taps. Important: Use exactly the tap-drill size specified in the tables (slightly larger than the standard tap drill for that thread size). Locking keys are driven down into the parent material during installation, providing a positive mechanical lock against rotation. See tables for optional installation tools.

THINWALL — STAINLESS STEEL (USA)

PART NO.	INSERT DIMENSIONS				INSTALLATION DATA						REMOVAL DATA		MS EQUIVALENT	NAS EQUIVALENT
	INTERNAL THREAD	EXTERNAL THREAD	LENGTH	SHEAR ENGAGEMENT (SQ. IN.)	REQ'D TAP DRILL	C'SINK DIA	MIN. THREAD LENGTH	STANDARD TAP UN-2B	INSTALLATION TOOL PART NO.	DRILL SIZE	DRILL DEPTH			
CL-1024-TSKS	#10-24	5/16-18	.31	.152	.272	.323	.37	5/16-18	CL-10-KST	7/32	5/32	MS 51830-105	—	
CL-1032-TSKS	#10-32	5/16-18	.31	.152	.272	.323	.37	5/16-18	CL-10-KST	7/32	5/32	MS 51830-201	NAS 1394C3	
CL-1420-TSKS	1/4-20	3/8-16	.37	.237	.332	.385	.43	3/8-16	CL-14-KST	9/32	3/16	MS 51830-106	—	
CL-1428-TSKS	1/4-28	3/8-16	.37	.237	.332	.385	.43	3/8-16	CL-14-KST	9/32		MS 51830-202	NAS 1394C4	
CL-51618-TSKS	5/16-18	7/16-14	.43	.305	.397	.447	.50	7/16-14	CL-516-KST	11/32	3/16	MS 51830-107	—	
CL-3816-TSKS	3/8-16	1/2-13	.50	.430	.453	.510	.56	1/2-13	CL-38-KST	13/32	3/16	MS 51830-108	—	
CL-1213-TSKS	1/2-13	5/8-11	.62	.718	.578	.635	.68	5/8-11	CL-12-KST	17/32	3/16	MS 51830-110	—	

THINWALL — STAINLESS STEEL INTERNAL THREAD LOCKING (USA)

PART NO.	INTERNAL THREAD	EXTERNAL THREAD	LENGTH	SHEAR ENGAGEMENT (SQ. IN.)	REQ'D TAP DRILL	C'SINK DIA	MIN. THREAD LENGTH	STANDARD TAP UN-2B	INSTALLATION TOOL PART NO.	DRILL SIZE	DRILL DEPTH	MS EQUIVALENT	NAS EQUIVALENT
CL-1032-TSKSL	#10-32	5/16-18	.31	.094	.272	.323	.37	5/16-18	CL-10-KST	7/32	5/32	MS 51830-201L	NAS 1394C3L
CL-1420-TSKSL	1/4-20	3/8-16	.37	.173	.332	.385	.43	3/8-16	CL-14-KST	9/32	3/16	MS 51830-106L	—
CL-51618-TSKSL	5/16-18	7/16-14	.43	.232	.397	.447	.50	7/16-14	CL-516-KST	11/32		MS 51830-107L	—
CL-3816-TSKSL	3/8-16	1/2-13	.50	.337	.453	.510	.56	1/2-13	CL-38-KST	13/32	3/16	MS 51830-108L	—
CL-1213-TSKSL	1/2-13	5/8-11	.68	.591	.578	.635	.68	5/8-11	CL-12-KST	17/32	3/16	MS 51830-110L	—

THINWALL — STEEL (METRIC)

PART NO.	INTERNAL THREAD	EXTERNAL THREAD	LENGTH	SHEAR ENGAGEMENT (SQ. IN.)	REQ'D TAP DRILL	C'SINK DIA	MIN. THREAD LENGTH	STANDARD TAP UN-2B	INSTALLATION TOOL PART NO.	DRILL SIZE	DRILL DEPTH	MS EQUIVALENT	NAS EQUIVALENT
CLM-58-KSM	M5	M8	.32	.163	6.9mm or I	.32	.36	M8	CL-10-KST	5.5mm or 7/32	5/32	—	—
CLM-61-KSM	M6	M10x1.25	.39	.275	8.8mm or S	.40	.45	M10x1.25	CL-14-KST	7.5mm or 19/64	3/16	—	—
CLM-8125-KSM	M8	M12x1.25	.47	.413	10.8mm or 27/64	.48	.54	M12x1.25	CL-516-KST	9.5mm or 3/8		—	—
CLM-81-KSM	M8x1	M12x1.25	.47	.413	10.8mm or 27/64	.48	.54	M12x1.25	CL-516-KST	9.5mm or 3/8	3/16	—	—
CLM-1015-KSM	M10	M14x1.5	.55	.530	13mm or 1/2	.56	.62	M14x1.5	CL-38-KST	11.5mm or 29/64	3/16	—	—
CLM-10125-KSM	M10x1.25	M14x1.5	.55	.530	13mm or 1/2	.56	.62	M14x1.5	CL-38-KST	11.5mm or 29/64	3/16	—	—
CLM-12175-KSM	M12	M16x1.5	.63	.729	15mm or 37/64	.63	.69	M16x1.5	CL-12-KST	13.5mm or 17/32	3/16	—	—
CLM-12125-KSM	M12x1.25	M16x1.5	.63	.729	15mm or 37/64	.63	.69	M16x1.5	CL-12-KST	13.5mm or 17/32	3/16	—	—

THINWALL — STAINLESS STEEL (METRIC)

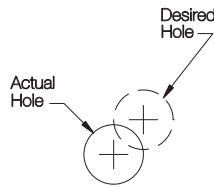
PART NO.	INTERNAL THREAD	EXTERNAL THREAD	LENGTH	SHEAR ENGAGEMENT (SQ. IN.)	REQ'D TAP DRILL	C'SINK DIA	MIN. THREAD LENGTH	STANDARD TAP UN-2B	INSTALLATION TOOL PART NO.	DRILL SIZE	DRILL DEPTH	MS EQUIVALENT	NAS EQUIVALENT
CLM-58-SKS	M5	M8	.32	.163	6.9mm or I	.32	.36	M8	CL-10-KST	5.5mm or 7/32	5/32	—	—
CLM-61-SKS	M6	M10x1.25	.39	.275	8.8mm or S	.40	.45	M10x1.25	CL-14-KST	7.5mm or 19/64	3/16	—	—
CLM-8125-SKS	M8	M12x1.25	.47	.413	10.8mm or 27/64	.48	.54	M12x1.25	CL-516-KST	9.5mm or 3/8		—	—
CLM-81-SKS	M8x1	M12x1.25	.47	.413	10.8mm or 27/64	.48	.54	M12x1.25	CL-516-KST	9.5mm or 3/8	3/16	—	—
CLM-1015-SKS	M10	M14x1.5	.55	.530	13mm or 1/2	.56	.62	M14x1.5	CL-38-KST	11.5mm or 29/64	3/16	—	—
CLM-10125-SKS	M10x1.25	M14x1.5	.55	.530	13mm or 1/2	.56	.62	M14x1.5	CL-38-KST	11.5mm or 29/64	3/16	—	—
CLM-12175-SKS	M12	M16x1.5	.63	.729	15mm or 37/64	.63	.69	M16x1.5	CL-12-KST	13.5mm or 17/32	3/16	—	—
CLM-12125-SKS	M12x1.25	M16x1.5	.63	.729	15mm or 37/64	.63	.69	M16x1.5	CL-12-KST	13.5mm or 17/32	3/16	—	—

KEY INSERTS SOLID

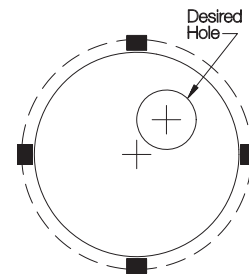
BODY: 12L15 STEEL, BLACK OXIDE FINISH, OR 303 STAINLESS STEEL.
KEYS: 302 STAINLESS STEEL



**Solid –
Steel and
Stainless Steel**



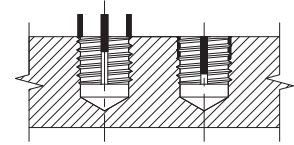
Before Repair



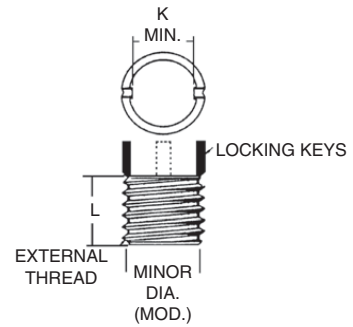
After Repair

Solid Key Inserts are ideal for relocating a drilled or tapped hole. This threaded plug installs quickly, and the locking keys positively prevent the insert from rotating.

See Technical Information at the beginning of this section for complete installation steps. Key Inserts are installed with standard drills and taps. Important: Use exactly the tap-drill size specified in the tables (slightly larger than the standard tap drill for that thread size). Locking keys are driven down into the parent material during installation, providing a positive mechanical lock against rotation. See tables for optional installation tools.



For installation tools, see table below.



SOLID – STAINLESS STEEL (USA)

PART NO.	INSERT DIMENSIONS				INSTALLATION DATA				REMOVAL DATA		
	EXTERNAL THREAD	L	K	SHEAR ENGAGEMENT (SQ. IN.)	REQ'D TAP DRILL	C' SINK DIA +.010/-000	STANDARD TAP UN-2B	MIN. THREAD DEPTH	INSTALLATION TOOL PART NO.	DRILL SIZE	DRILL DEPTH
CL-51618-KSS	5/16-18	.31	.216	.152	I	.323	5/16-18	.37	CL-51618-KSST	7/32	1/8
CL-3816-KSS	3/8-16	.31	.285	.190	Q	.385	3/8-16	.37	CL-3816-KSST	9/32	1/8
CL-71614-KSS	7/16-14	.37	.341	.284	X	.447	7/16-14	.43	CL-71614-KSST	11/32	3/16
CL-1213-KSS	1/2-13	.43	.403	.359	29/64	.510	1/2-13	.50	CL-1213-KSST	13/32	3/16
CL-91612-KSS	9/16-12	.50	.465	.498	33/64	.572	9/16-12	.56	CL-91612-KSST	15/32	3/16
CL-5811-KSS	5/8-11	.62	.528	.717	37/64	.635	5/8-11	.68	CL-5811-KSST	17/32	3/16
CL-111611-KSS	11/16-11-NS	.68	.590	.888	41/64	.700	11/16-11-NS	.75	CL-111611-KSST	19/32	3/16
CL-131616-KSS	13/16-16	.81	.716	1.249	49/64	.822	13/16-16	.94	CL-131616-KSST	23/32	3/16
CL-7814-KSS	7/8-14	.87	.778	1.487	53/64	.885	7/8-14	1.00	CL-7814-KSST	25/32	3/16
CL-11812-KSS	1-1/8"-12	1.12	.970	2.490	1-1/16	1.145	1-1/8"-12	1.31	CL-11812-KSST	31/32	5/16
CL-11412-KSS	1-1/4"-12	1.25	1.095	3.137	1-3/16	1.270	1-1/4"-12	1.41	CL-11412-KSST	1-3/32	5/16
CL-13812-KSS	1-3/8"-12	1.37	1.220	3.838	1-5/16	1.395	1-3/8"-12	1.56	CL-13812-KSST	1-7/32	5/16

SOLID – STEEL (METRIC)

CLM-8125-KSSM	M8	.31	.218	.154	6.9mm or I	.325	M8	.37	CLM-8125-KSST	5.5mm or 7/32	.16
CLM-10125-KSSM	M10 x 1.25	.39	.299	.209	8.8mm or S	.404	M10 x 1.25	.49	CLM-10125-KSST	7.5mm or M	.19
CLM-12125-KSSM	M12 x 1.5	.47	.368	.331	10.8mm or 27/64	.482	M12 x 1.25	.57	CLM-12125-KSST	9.5mm or 3/8	.19
CLM-1615-KSSM	M16 x 1.5	.63	.532	.728	14.75mm or 37/64	.640	M16 x 1.5	.73	CLM-1615-KSST	13.5mm or 17/32	.19
CLM-2015-KSSM	M20 x 1.5	.79	.694	1.173	18.75mm or 47.64	.797	M20 x 1.5	.89	CLM-2015-KSST	17.5mm or 11/16	.19
CLM-2415-KSSM	M24 x 1.5	.94	.815	1.757	22.5mm or 57/64	.955	M24 x 1.5	1.04	CLM-2415-KSST	19.75mm or 25/32	.25
CLM-302-KSSM	M30 x 2	1.18	1.035	2.800	28mm or 1-7/64	1.191	M30 x 2	1.36	CLM-302-KSST	25.75mm or 1-1/64	.25

KEY INSERT ASSORTMENTS



With Key Insert Assortments, you always have the right insert and installation tool on hand for thread repairs. Each of the four assortments contains many different insert sizes and an installation tool for each size. The durable case provides convenient storage and clear organization. Order individual inserts on pages 290-293 as refills.



To order repair kits for a single thread size, see page 290.

UNC COARSE

PART NO.	CONTAINS THESE INSERTS		CONTAINS THESE TOOLS	
	QTY	ID THREAD		PART NO.
CL-1-KS-C	5	#10-24	CL-1024-KS	CL-10-KST
	10	1/4-20	CL-1420-KS	CL-14-KST
	10	5/16-18	CL-51618-KS	CL-516-KST
	10	3/8-16	CL-3816-KS	CL-38-KST
	10	1/2-13	CL-1213-KS	CL-12-KST
	10	5/8-11	CL-5811-KS	CL-58-KST
	5	3/4-10	CL-3410-KS	CL-34-KST

UNC COARSE — STAINLESS STEEL

PART NO.	CONTAINS THESE INSERTS		CONTAINS THESE TOOLS	
	QTY	ID THREAD		PART NO.
CL-1-SKS-C	5	#10-24	CL-1024-SKS	CL-10-KST
	10	1/4-20	CL-1420-SKS	CL-14-KST
	10	5/16-18	CL-51618-SKS	CL-516-KST
	10	3/8-16	CL-3816-SKS	CL-38-KST
	10	1/2-13	CL-1213-SKS	CL-12-KST
	10	5/8-11	CL-5811-SKS	CL-58-KST
	5	3/4-10	CL-3410-SKS	CL-34-KST

UNF FINE

PART NO.	CONTAINS THESE INSERTS		CONTAINS THESE TOOLS	
	QTY	ID THREAD		PART NO.
CL-1-KS-F	5	#10-32	CL-1032-KS	CL-10-KST
	10	1/4-28	CL-1428-KS	CL-14-KST
	10	5/16-24	CL-51624-KS	CL-516-KST
	10	3/8-24	CL-3824-KS	CL-38-KST
	10	1/2-20	CL-1220-KS	CL-12-KST
	10	5/8-18	CL-5818-KS	CL-58-KST
	5	3/4-16	CL-3416-KS	CL-34-KST

METRIC COARSE

PART NO.	CONTAINS THESE INSERTS		CONTAINS THESE TOOLS	
	QTY	ID THREAD		PART NO.
CLM-1-KSM-C	5	M5	CLM-58-KSM	CL-10-KST
	10	M6	CLM-61-KSM	CL-14-KST
	10	M8	CLM-8125-KSM	CL-516-KST
	10	M10	CLM-1015-KSM	CL-38-KST
	10	M12	CLM-12175-KSM	CL-12-KST
	10	M16	CLM-162-KSM	CL-58-KST
	5	M20	CLM-2025-KSM	CL-34-KST

SOLID — STAINLESS STEEL

PART NO.	CONTAINS THESE INSERTS		CONTAINS THESE TOOLS	
	QTY	OD THREAD		PART NO.
CL-1-KSS-S	5	5/16-18	CL-51618-KSS	CL-51618-KSST
	10	3/8-16	CL-3816-KSS	CL-3816-KSST
	10	1/2-13	CL-1213-KSS	CL-1213-KSST
	10	9/16-12	CL-91612-KSS	CL-91612-KSST
	10	5/8-11	CL-5811-KSS	CL-5811-KSST
	10	7/8-14	CL-7814-KSS	CL-7814-KSST
	5	1-1/8-12	CL-11812-KSS	CL-11812-KSST