



## Key Locking Thread Inserts

For metal applications; not recommended for cast iron or brittle material. Repair damaged threads with a positive mechanical lock, preventing rotational spinout from vibration or torque.

Note: Units measured in inches have an internal thread class of 3B and an external thread class of 2A. Metric units have an internal thread class of 6H and an external thread class of 6G.

Stainless steel and key locking thread insert installation tools are available on Grainger.com.

Internal Thread Size	External Thread Size	Overall Length	Drill Bit Size	Installation Tool No.	Item No.	Pkg. Qty.
<b>Heavy Wall Wall</b>						
<b>2 Locking Keys</b>						
#10-24	3/8"-16	3/8 in	Q	5XA40	5WY70	10
#10-32	3/8"-16	3/8 in	Q	5XA40	5WY71	10
1/4"-20	1/8"-14	3/8 in	X	5XA41	5WY72	10
1/4"-28	1/8"-14	3/8 in	X	5XA41	5WY73	10
<b>4 Locking Keys</b>						
#8-32	3/16"-18	3/8 in	I	5XA39	5WY69	10
3/16"-18	1/2"-13	7/16 in	29/64 in	5XA42	5WY74	10
3/16"-24	1/2"-13	7/16 in	29/64 in	5XA42	5WY75	10
3/8"-16	3/8"-12	1/2 in	33/64 in	5XA43	5WY76	10
3/8"-24	3/8"-12	1/2 in	33/64 in	5XA43	5WY77	10
7/16"-14	3/8"-11	3/8 in	37/64 in	5XA43	5WY78	10
7/16"-20	3/4"-16	5/8 in	45/64 in	5XA44	5WY79	10
1/2"-13	3/4"-16	5/8 in	45/64 in	5XA44	5WY80	5
1/2"-20	3/4"-16	5/8 in	45/64 in	5XA44	5WY81	5
3/8"-12	3/4"-16	13/16 in	45/64 in	5XA44	5WY82	5
3/8"-18	3/4"-16	13/16 in	45/64 in	5XA44	5WY83	5
3/8"-11	7/8"-14	7/8 in	53/64 in	5XA45	5WY84	5
3/8"-18	7/8"-14	7/8 in	53/64 in	5XA45	5WY85	5
3/4"-10	1 1/8"-12	1 1/8 in	1 1/16 in	5XA46	5WY86	1
3/4"-16	1 1/8"-12	1 1/8 in	1 1/16 in	5XA46	5WY87	1
7/8"-9	1 1/4"-12	1 1/4 in	1 1/16 in	5XA46	5WY88	1
7/8"-14	1 1/4"-12	1 1/4 in	1 1/16 in	5XA46	5WY89	1
1"-8	1 3/8"-12	1 3/8 in	1 3/16 in	5XA47	5WY90	1
1"-12	1 3/8"-12	1 3/8 in	1 3/16 in	5XA47	5WY91	1
1"-14	1 3/8"-12	1 3/8 in	1 3/16 in	5XA47	5WY92	1
<b>Thin Wall Wall</b>						
<b>2 Locking Keys</b>						
#10-24	3/16"-18	3/8 in	I	5XA40	5WY93	10
#10-32	3/16"-18	3/8 in	I	5XA40	5WY94	10
1/4"-20	3/8"-16	3/8 in	Q	5XA41	5WY95	10
1/4"-28	3/8"-16	3/8 in	Q	5XA41	5WY96	10
M5-0.80	M8-1.25	8 mm	6.90 mm	5XA40	5XA31	5
M6-1.00	M10-1.25	10 mm	8.80 mm	5XA41	5XA32	5
<b>4 Locking Keys</b>						
3/16"-18	1/8"-14	7/16 in	X	5XA42	5WY97	10
3/16"-24	1/8"-14	7/16 in	X	5XA42	5WY98	10
3/8"-16	1/2"-13	1/2 in	29/64 in	5XA43	5WY99	10
3/8"-24	1/2"-13	1/2 in	29/64 in	5XA43	5XA10	10
7/16"-14	3/8"-12	3/8 in	33/64 in	5XA43	5XA11	10
7/16"-20	3/8"-12	3/8 in	33/64 in	5XA43	5XA12	10
1/2"-13	3/8"-11	3/8 in	37/64 in	5XA44	5XA13	5
1/2"-20	3/8"-11	3/8 in	37/64 in	5XA44	5XA14	5
M8-1.25	M12-1.25	12 mm	10.80 mm	5XA42	5XA34	5
M8-1.00	M12-1.25	12 mm	10.80 mm	5XA42	5XA35	5
M10-1.25	M14-1.50	14 mm	12.80 mm	5XA43	5XA35	5
M10-1.50	M14-1.50	14 mm	12.80 mm	5XA43	5XA36	5
M12-1.25	M16-1.50	16 mm	14.75 mm	5XA44	5XA37	5
M12-1.75	M16-1.50	16 mm	14.75 mm	5XA44	5XA38	5



Knurled Nut Insert

Nut Insert

## Nut Inserts

Eliminate the need for tapping, welding, and brazing. Upper sleeve and base has both internal and external threads. Install in predrilled or punched holes in metal or rigid material of at least 3/32".

**Knurled Nut Inserts**—For blind or limited clearance.

Note: Aluminum available; on Grainger.com.

Thread Size	Head Dia.	Body Dia.	Item No.	Pkg. Qty.
<b>Knurled Nut Inserts, Stainless Steel</b>				
#10-32	0.306 in	0.281 in	4CUF6	10
1/4"-20	0.4 in	0.375 in	4CUF7	10
3/16"-18	0.528 in	0.5 in	4CUF8	10
3/8"-16	0.588 in	0.562 in	4CUF9	10
M4-0.70	6.83 mm	6.34 mm	4CUG1	10
<b>Nut Inserts, Zinc Plated Steel</b>				
#6-32	0.25 in	0.215 in	5NNT0	100
#8-32	0.282 in	0.246 in	5NNF4	100
#10-24	0.314 in	0.277 in	5NNF1	100
#10-32	0.314 in	0.277 in	5NNF2	100
1/4"-20	0.408 in	0.372 in	5NNT2	50
3/16"-18	0.537 in	0.496 in	5NNT1	25
3/8"-16	0.6 in	0.559 in	5NNF3	25



Diamond Knurled, Flanged

Diamond Knurled, Flush

Reverse Slot

## Press Inserts

Use in plastic

**Diamond-Knurled**—Inserts are installed cold, eliminating the need to chase threads. For blind and through holes; install with a hammer or arbor press.

**Reverse Slot**—Reverse slot puts head on the back side of the part for greater pull-out resistance. Simply drill or mold hole and press into place.

Note: Stainless steel are available; on Grainger.com.

Thread Size	Length	Drill Size	Item No.	Pkg. Qty.
<b>Diamond-Knurled, Flanged</b>				
#2-56	5/32 in	1/8 in	4ZU29	50
#4-40	3/8 in	1/16 in	4ZU31	50
#6-32	1/4 in	3/16 in	4ZU33	50
#8-32	3/16 in	1/32 in	4ZU35	25
#10-32	3/8 in	1/4 in	4ZU37	25
1/4"-20	1/2 in	5/16 in	4ZU39	25
3/16"-18	3/8 in	3/8 in	4ZU41	10
3/8"-16	3/8 in	7/16 in	4ZU42	10
<b>Diamond-Knurled, Flush</b>				
#0-80	1/8 in	3/32 in	4ZE96	50
#2-56	5/32 in	1/8 in	4ZE97	50
#4-40	3/16 in	5/32 in	4ZE99	50
#6-32	1/4 in	3/16 in	4ZU11	50
#8-32	3/8 in	1/32 in	4ZU13	50
#10-24	3/8 in	1/4 in	4ZU17	25
#10-32	3/8 in	1/4 in	4ZU15	25
1/4"-20	1/2 in	5/16 in	4ZU18	25
3/16"-18	3/8 in	3/8 in	4ZU20	10
3/8"-16	3/8 in	7/16 in	4ZU22	10
M3-0.50	3/16 in	5/32 in	4ZU25	50
M4-0.70	3/16 in	1/2 in	4ZU26	50
M5-0.80	3/8 in	1/4 in	4ZU27	50
M6-1.00	1/2 in	5/16 in	4ZU28	25
<b>Reverse Slot</b>				
#2-56	3/16 in	1/8 in	16UC5	50
#4-40	3/16 in	3/16 in	16UC6	50
#6-32	1/4 in	3/16 in	16UC7	50
#8-32	3/16 in	1/32 in	16UC8	50
#10-32	3/8 in	1/4 in	16UC9	25
1/4"-20	1/2 in	5/16 in	16UD1	25

## Threaded Inserts

**Well-Nut**—Flanged bushings have a brass machine nut molded on to 1 end. Seal against moisture and gases and help prevent galvanic corrosion. For isolating against shock-and-vibration and electrical conductivity. Rubber, chlorophrene material. Removable.



Well-Nut

Thread Size	Well-Nut			Item No.	Pkg. Qty.
	Head Dia.	Body Dia.	Grip Range		
#6-32	0.452 in	0.312 in	0.015 to 0.156 in	3ZLV8	25
	0.554 in	0.24 in	0.375 to 0.512 in	3ZLV5	25
#8-32	0.438 in	0.312 in	0.015 to 0.156 in	3ZLV4	25
	0.5 in	0.377 in	0.015 to 0.192 in	3ZLV3	25
#10-32	0.562 in	0.375 in	0.312 to 0.591 in	3ZLV4	10
	0.562 in	0.377 in	0.035 to 0.232 in	3ZLV1	10
1/4"-20	0.63 in	0.5 in	0.015 to 0.157 in	3ZLV2	10
	0.635 in	0.5 in	0.250 to 0.457 in	3ZLV9	10
3/16"-18	0.74 in	0.5 in	0.031 to 0.187 in	3ZLV6	10
	0.875 in	0.62 in	0.015 to 0.156 in	3ZLV7	5
3/8"-16	1.162 in	0.75 in	0.015 to 0.437 in	3ZLV3	5