

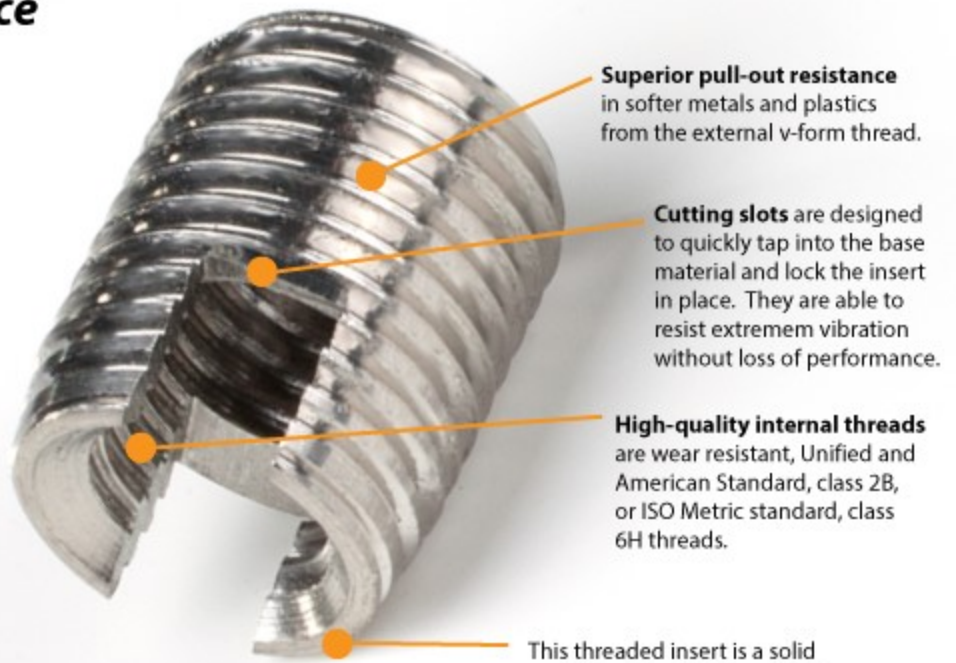
Technical Performance



Tap-Lok® Slotted Series

- Highest pull-out resistance.
- Suitable for a wide range of metals and plastics.
- Superior vibration resistance.
- One-step installation.

Slotted Series threaded inserts are suitable for use in a wide range of machinable softer metals and plastics, particularly those that may contain abrasive fillers.



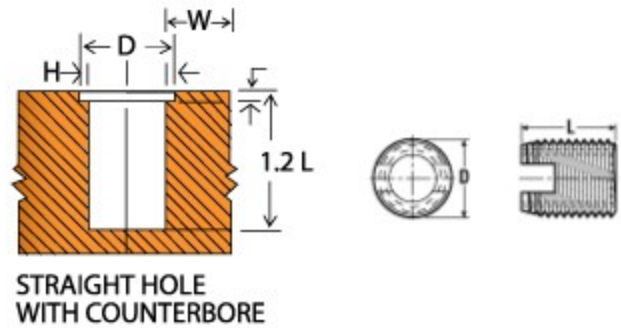
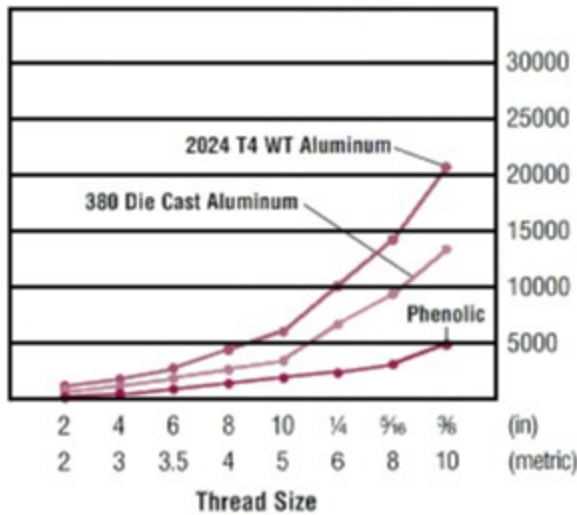
Superior pull-out resistance in softer metals and plastics from the external v-form thread.

Cutting slots are designed to quickly tap into the base material and lock the insert in place. They are able to resist extremem vibration without loss of performance.

High-quality internal threads are wear resistant, Unified and American Standard, class 2B, or ISO Metric standard, class 6H threads.

This threaded insert is a solid metal bushing that is **available in stainless steel, steel with zinc plating, steel with cadmium coating or brass in regular, or short length.**

Pull-Out Resistance



STRAIGHT HOLE WITH COUNTERBORE

Performance Data

| Internal Thread Size (in) (metric) | Effective Shear Area (in) ² | Pull-Out Resistance (lb) | | |
|---------------------------------------|---|-------------------------------|---|--|
| | | Phenolic (9,500 PSI Shear) | 380 Die Cast Aluminum (26,000 PSI Shear) | 2024 T4 Wrought Aluminum (40,000 PSI Shear) |
| 2 | 2 | 290 | 780 | 1200 |
| 4 | 3 | 480 | 1300 | 2000 |
| 6 | 3.5 | 760 | 2080 | 3200 |
| 8 | 4 | 1050 | 2860 | 4400 |
| 10 | 5 | 1430 | 3900 | 6000 |
| 1/4 | 6 | 2380 | 6500 | 10000 |
| 5/16 | 8 | 3330 | 9100 | 14000 |
| 3/8 | 10 | 5040 | 13780 | 21200 |
| 7/16 | - | 6560 | 17940 | 27600 |
| 1/2 | 12 | 8840 | 24180 | 37200 |
| 9/16 | 14 | 10830 | 29640 | 45600 |
| 5/8 | 16 | 13780 | 37700 | 58000 |
| 3/4 | 18 | 20430 | 55900 | 86000 |

* Representative performance data for regular length. Preproduction prototype testing recommended for your application.

Specifications

| Inch Sizes | | Metric Sizes | | D External Diameter | L Length | | H Recommended Hole Diameter | | | C Counter-bore Depth |
|------------------|-------------------|------------------|-------------------|------------------------|---------------------|------------------|--------------------------------|-------------------|----------------|-------------------------|
| Internal Threads | Basic Part Number | Internal Threads | Basic Part Number | | Regular (no prefix) | Short (prefix S) | Aluminum | Thermoset Plastic | Thermo-Plastic | |
| | | | | | | | | | | |
| 4-40 | 11240 | M3 x 0.5 | 03050 | .172 | .234 | .156 | .156 | .153 | .149 | .030 |
| 6-32 | 13832 | M3.5 x 0.6 | 03560 | .219 | .281 | .187 | .200 | .195 | .191 | .030 |
| 8-32 | 16432 | M4 x 0.7 | 04070 | .250 | .328 | .218 | .231 | .227 | .223 | .030 |
| 10-24 | 19024 | M5 x 0.8 | 05080 | .297 | .375 | .250 | .272 | .267 | .261 | .040 |
| 10-32 | 19032 | | | | | | | | | |
| 1/4-20 | 25020 | M6 x 1.0 | 06010 | .375 | .484 | .312 | .346 | .339 | .333 | .050 |
| 1/4-28 | 25028 | | | | | | | | | |
| 5/16-18 | 31218 | M8 x 1.25 | 08012 | .469 | .562 | .375 | .436 | .428 | .421 | .055 |
| 5/16-24 | 31224 | | | | | | | | | |
| 3/8-16 | 37516 | M10 x 1.5 | 10015 | .563 | .687 | .437 | .524 | .517 | .509 | .060 |
| 3/8-24 | 37524 | | | | | | | | | |
| 7/16-14 | 43714 | - | - | .640 | .781 | .500 | .597 | .588 | .579 | .070 |
| 7/16-20 | 43720 | | | | | | | | | |
| 1/2-13 | 50013 | M12 x 1.75 | 12017 | .734 | .906 | .562 | .687 | .677 | .667 | .075 |
| 1/2-20 | 50020 | | | | | | | | | |
| 9/16-12 | 56212 | M14 x 2.0 | 14020 | .813 | 1.000 | .625 | .762 | .751 | .740 | .080 |
| 9/16-18 | 56218 | | | | | | | | | |
| 5/8-11 | 62511 | M16 x 2.0 | 16020 | .906 | 1.125 | .687 | .850 | .838 | .826 | .090 |
| 5/8-18 | 62518 | | | | | | | | | |
| 3/4-10 | 75010 | M18 x 2.0 | 18020 | 1.078 | 1.375 | .812 | 1.016 | 1.003 | .990 | .100 |
| 3/4-16 | 75016 | | | | | | | | | |

PART NUMBER SPECIFICATIONS = Length Prefix + Basic Part Number + Material Suffix

Example: 10-32 Short-length, steel Slotted Series threaded insert with zinc plating
S-19032-14

M3 x 0.5 Regular-length, stainless steel Slotted Series threaded insert
05080-50 (no length prefix for regular)

LENGTH PREFIX

None = Regular S = Short

MATERIAL SUFFIX

12 = Case-hardened, cadmium-plated steel
14 = Case-hardened, zinc-plated steel
50 = Stainless steel
30 = Brass