What Are Thread Insert Installation Tools Used For?

Thread Insert Installation Tools are used for installing, adjusting or servicing the assembly rather than forming part of it. They are manufactured to DIN 8140 (wire thread inserts) — installation tooling, and selection is driven by the size designation, the fit and tolerance the assembly requires, and the service environment.

Primary duty

Installing, adjusting or servicing the assembly rather than forming part of it

Governing standard

DIN 8140 (wire thread inserts) — installation tooling

Category

Tools

Application notes are general engineering guidance. Verify the property class and any approval requirement against your own design calculation.



Thread Insert Installation Tools are used primarily for installing, adjusting or servicing the assembly rather than forming part of it. This page lists the industries and assemblies where they are specified, the selection criteria that matter for each application, installation practice, and the cases where a different fastener type is the correct choice. Parts are supplied to DIN 8140 (wire thread inserts) — installation tooling.

Typical Applications for Thread Insert Installation Tools

The most common settings where these are specified:

General machine building: fastening covers, brackets, motors and sub-assemblies on production equipment.

Maintenance & repair (MRO): a stocked size for servicing existing plant where the original fastener spec must be matched.

Fabrication & metalwork: bench and on-site assembly of steel frames, enclosures and weldments.

Product catalog

Related Setting & Installation Tools products



(https://engineeringhardware.com/product/fasteners-for-thread-protection-wire-thread-insert/)

Wire Thread & Helical Inserts

Fasteners for Thread Protection Wire Thread Insert
(https://engineeringhardware.com/product/fasteners-for-thread-protection-wire-thread-insert/)(https://engineeringhardware.com/product/fasteners-for-thread-protection-wire-thread-insert/)

Common · Stainless Steel

US$0.30 – 0.31 MOQ 100 pieces



(https://engineeringhardware.com/product/premium-recoil-baercoil-thread-insert-wire-made-of-durable-aluminum-material/)

Wire Thread & Helical Inserts

Premium Recoil Baercoil Thread Insert Wire Made of Durable Aluminum Material (https://engineeringhardware.com/product/premium-recoil-baercoil-thread-insert-wire-made-of-durable-aluminum-material/)

Common · Stainless Steel

US$0.048 MOQ 999 pieces



(https://engineeringhardware.com/product/m4-0-7-5-0-8-6-1-8-1-25-11-1-5-various-sizes-wire-thread-inserts-for-efficient/)

Wire Thread & Helical Inserts

M4*0.7 5*0.8 6*1 8*1.25 11*1.5 Various Sizes Wire Thread Inserts for Efficient Fastening (https://engineeringhardware.com/product/m4-0-7-5-0-8-6-1-8-1-25-11-1-5-various-sizes-wire-thread-inserts-for-efficient/)

General Industry · Metric thread inserts

US$0.012 – 0.024 MOQ 10 pieces



(https://engineeringhardware.com/product/factory-directly-high-quality-stainless-steel-insert-thread-screw-fasteners/)

Wire Thread & Helical Inserts

Factory Directly High Quality Stainless Steel Insert Thread Screw Fasteners (https://engineeringhardware.com/product/factory-directly-high-quality-stainless-steel-insert-thread-screw-fasteners/)

Wire Thread Inserts · Carbon Steel

US$0.12 – 1.20 MOQ 1,000 pieces



(https://engineeringhardware.com/product/wholesale-in-stock-fine-thread-304-stainless-steel-spring-wire-thread-insert-natural/)

Wire Thread & Helical Inserts

Wholesale in Stock Fine Thread 304 Stainless Steel Spring Wire Thread Insert Natural Color for Screw Thread Insert
(https://engineeringhardware.com/product/wholesale-in-stock-fine-thread-304-stainless-steel-spring-wire-thread-insert-natural/)

Common · Stainless Steel

US$0.072 – 0.084 MOQ 100 pieces



(https://engineeringhardware.com/product/stainless-steel-wire-thread-insert-for-auto-thread-repair/)

Wire Thread & Helical Inserts

Stainless Steel Wire Thread Insert for Auto Thread Repair
(https://engineeringhardware.com/product/stainless-steel-wire-thread-insert-for-auto-thread-repair/)(https://engineeringhardware.com/product/stainless-steel-wire-thread-insert-for-auto-thread-repair/)

Auto Fasteners · Steel

US$0.12 – 0.24MOQ 1,000 pieces

View all Wire Thread & Helical Inserts →
(https://engineeringhardware.com/fastener-products/threaded-inserts-clinch-fasteners/wire-thread-helical-inserts/)

Full product catalog (https://engineeringhardware.com/products/)

How to Specify Thread Insert Installation Tools for Your Application

Size: Match the size to the mating part — see the dimension table below for each option.

Material: Choose the material and finish for the service environment — plated steel for general use, stainless for corrosion resistance.

Environment: For damp, coastal or chemical exposure prefer A4/316 stainless or a suitable coating; indoors, plated steel or A2 is usually sufficient.

Standard: This product is supplied to DIN 8140 (wire thread inserts) — installation tooling. Quoting the standard on your order guarantees interchangeable dimensions between suppliers.

Where Thread Insert Installation Tools Are Not the Right Choice

Match the fastener to the load, environment and whether the joint must be reopened; the wrong class or style is the usual cause of joint failure.

Custom manufacturing · Made to drawing

Need a thread insert installation tools outside the standard range?

A non-standard fastener tool is quoted from the drawing; where one already exists in the catalog, the special is usually a variation on its tooling.

Minimum order from 2,000 pieces; samples within 7 days of drawing approval.

Custom fastener tool manufacturing (https://engineeringhardware.com/custom/tools/)

Send a drawing (https://engineeringhardware.com/custom/tools/#rfq)

Technical Drawing

Customize the parameters below — every spec field is editable, and the drawing redraws to match the values you choose. Changing the size will snap the other fields to that size's standard values; you can then override any individual value.

Dimensioned line drawing of STI tap Thread Insert Installation Tools to DIN 8140 (wire thread inserts) — installation tooling. Side view and top view, drawn to the dimensions in the table below and redrawn for any size selected.

Sends the selected values to the quote form below.

Request a Quote

The form below follows the current technical drawing configuration. Change the drawing values above and the request details update automatically.

Dimensions & Specifications (DIN 8140 (wire thread inserts) — installation tooling)

Tool	Step in the sequence	Sized by	Notes
STI tap	cuts the oversize thread for the insert	insert thread size	not the same as
insertion mandrel / tool	winds the insert to depth	insert thread size	sets the insert d
tang break-off punch	removes the driving tang	insert thread size	the tang must b
extraction tool	removes a failed insert	insert thread size	for rework
key-locking insert tool	drives the keys into the parent metal	insert thread size	for key-locking

Inside the plant

Manufactured in our own plant

This part is cold-formed, threaded, heat-treated and finished in-house. The stages below are where its class and finish are actually decided.



01

Cold heading

Wire rod is drawn to size and cold-formed into blanks. Forming rather than cutting keeps the grain flow continuous around the head, which is where a bolt is most likely to fail.

Head dimensions and under-head radius checked at set-up and per shift.



02

Thread rolling

Threads are rolled between hardened dies rather than cut. Rolled threads are stronger in fatigue than cut threads and hold pitch and flank angle far more consistently across a batch.

Go / no-go ring gauges to ISO 965 tolerance class 6g.



03

Heat treatment

Quench-and-temper brings carbon and alloy steel to the property class ordered — 8.8, 10.9 or 12.9 — with the furnace charge tracked so a finished lot can be traced back to it.

Core hardness and tensile tested per lot to ISO 898-1.



04

Surface treatment

Zinc, zinc-nickel, hot-dip galvanizing, black oxide, phosphate and Dacromet, selected against the service environment rather than against the price list.

Coating thickness and neutral salt spray hours to ISO 9227.

Frequently Asked Questions

What are Thread Insert Installation Tools used for?

Installing, adjusting or servicing the assembly rather than forming part of it. They are supplied to DIN 8140 (wire thread inserts) — installation tooling.

Which industries use Thread Insert Installation Tools?

They are commonly specified in general machine building, maintenance & repair (mro) and fabrication & metalwork, among other sectors.

How do I choose the right size of Thread Insert Installation Tools?

Match the size to the mating part using the dimension table on this page.

Are Thread Insert Installation Tools made to a recognized standard?

Yes — they are manufactured to DIN 8140 (wire thread inserts) — installation tooling, so dimensions are interchangeable between suppliers when you quote the standard on your order.

Can I get a quote for Thread Insert Installation Tools in the size and material I need?

Yes. Use the technical drawing and quote form on this page to set the size and options, then send the exact configuration to our team for pricing and lead time.

Related Pages

Product page: Thread Insert Installation Tools — specifications & sizes (https://engineeringhardware.com/fastener/thread-insert-installation-tools/)

Thread Insert Installation Tools Specification Guides

- **A4 stainless Thread Insert Installation Tools (https://engineeringhardware.com/guide/material/a4-stainless-steel-thread-insert-installation-tools/)**

Related Fastener Applications

- **Ball-End Hex Keys applications (https://engineeringhardware.com/applications/ball-end-hex-keys/)**
- **Circlip Pliers (Internal and External) applications (https://engineeringhardware.com/applications/circlip-pliers/)**
- **Cross-Recess Screwdriver Bits (PH / PZ) applications (https://engineeringhardware.com/applications/cross-recess-screwdriver-bits/)**
- **Hand Riveters for Blind Rivets applications (https://engineeringhardware.com/applications/hand-riveters/)**
- **Hand Tap Sets (Taper, Second and Plug) applications (https://engineeringhardware.com/applications/hand-tap-sets/)**
- **Hex Bit Sockets applications (https://engineeringhardware.com/applications/hex-bit-sockets/)**