



Threading a new era in coil technology

TRUCOIL



WHO ARE WE ?

JK Industrial Corporation, the manufacturers of Trucoil Screw Thread Inserts (Helicoils), Fixing Tools and Trucoil Self-locking Nuts.

Blending the latest manufacturing technology and equipment, at our state-of-the-art plant in India, we are one of the leaders in developing and providing customized wire thread inserts (spring products) for a wide range of industries. This emphasis on staying current with new technologies, along with our commitment to quality, allows us to offer competitive products from prototypes to small, or large, production runs.

OUR MISSION

At JK Industrial Corporation, we aim to meet the challenges of the 21st century by

- Offering products that meet global standard at competitive prices.
- Striving for the well-being and stability of our team members.
- Contributing to the overall growth of our business associates.

We are committed to designing, manufacturing and servicing our customers while maintaining high quality standards.



OUR STRENGTH

We at JK Industrial Corporation are the market leaders of Thread Insert Fastener (Helicoil) in the Indian industry and are the major supplier of such niche fasteners to critical core sectors including Defence , Aerospace, Automobiles, Power Engineering, Textile machinery and others The TRUCOIL Threaded Insert and Locknuts not only have wide and varied use but they are also a supplement for import substitution.



OUR TECHNOLOGY

The Thread Insert provides positive means for protecting and strengthening all tapped threads. The inserts are manufactured from 18-8 Stainless Steel (AISI-304/DTD-734A/AMS-7245) or other space age materials conforming to internationally recognized Helicoil Thread Specification DIN-8140-1 and other relevant standards.

Our engineering process uses advanced facilities and rapid prototyping techniques to bring a given concept into reality. In order to make high quality TRUCOIL Inserts at reasonable price, our unit seeks the best balance between human resources and their ergonomics and advanced automatic works centre.



Manufacturing Capabilities Standards:

- DIN 8140-1
- BS 7751/7752/4377
- MS 122076-124850/21209, MIL I-8846
- NASM 8846, ASME B 18.29.1, ASME B 18.29.2M
- NA0276, NAS1130, NASM21209
- LN 9039, LN 9499





QUALITY IS OUR KEY TO **SUCCESS**

We are committed to providing quality products to meet the ever changing needs of our customers. We achieve this commitment by implementing the following objectives:

- On-time delivery
- First time quality
- Continuous improvement of our processes and systems
- Ensuring that our people are properly trained to be equipped to serve our customers

Our quality process starts right with the product conception and goes well beyond its market introduction. No wonder our high quality standards stem from stringent purchase of raw materials to strict in-house matching and sophisticated tooling techniques. It is little to say that our high quality standards are yours.

Our quality efforts are certified to comply with ISO/ TS -16949:2009 and EN 9100:2003 standards.





OUR PRODUCT RANGE

Available in two basic forms, free running or screw locking, Trucoil Screw Thread Inserts are much lighter and less expensive than any other equivalent type of screw thread insert. The compact size of Trucoil inserts also ensure they can be incorporated into existing designs where no previous provision has been made.



WIRE THREAD INSERTS

Provides positive means for protecting and strengthening all tapped threads.

- Free Running type
- Screw Locking type

Inserts are manufactured out of Stainless Steel grade AISI-304, 316, AMS-7245 & space age materials. Identification/surface coatings are done on customers' requirement.

Inserts and accessories are interchangeable to other available lead brands.

The state-of-the-art manufacturing facilities ensure that each of the 2 million inserts produced every month meet stringent quality norms. Bouyant with positive customer feedback plans are in place to leverage the monthly production capacity to 3.5 million inserts shortly.



FREE RUNNING & SCREW LOCKING TYPE



UNC : 2-56 to 1"

UNF : 3-56 to 1"

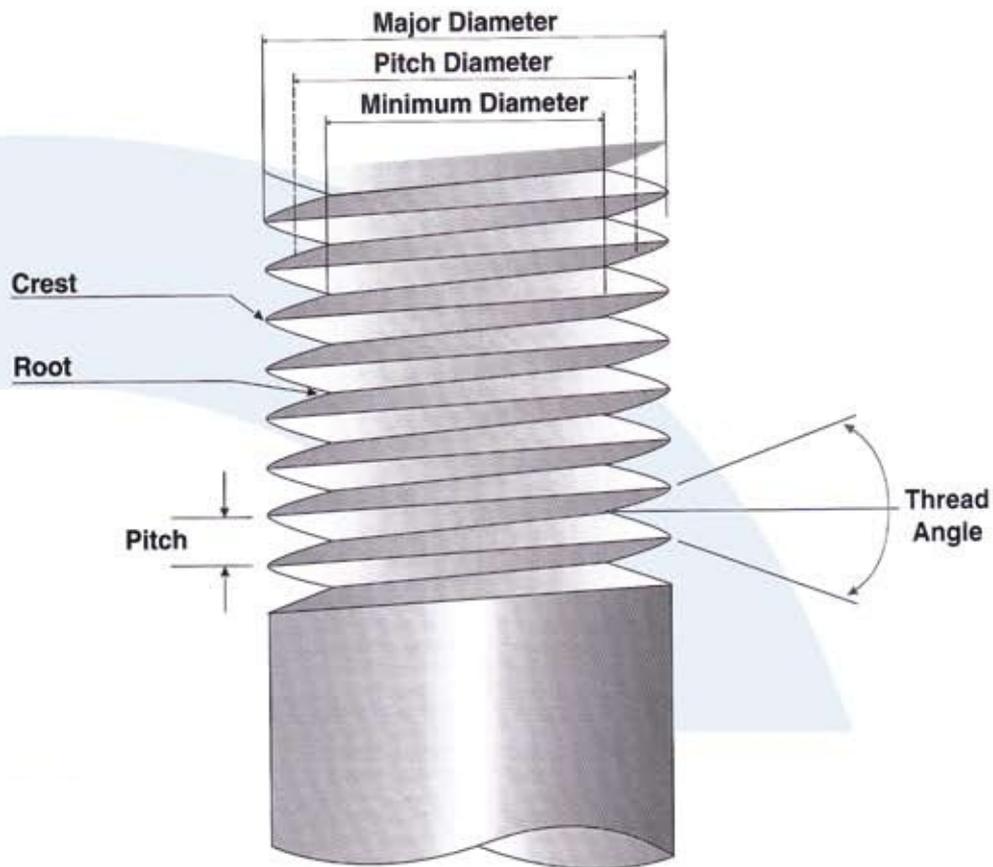
Metric & sparkplug – ISO: M1.6 to M45

BSW : 1/8 to 1"

BSP : 1/8 to 1"

Trucoil Wire Thread Inserts are available in five different lengths which are multiple of the diameters of particular insert. These are X the diameter 1D, 1.5D, 2D, 2.5D and 3D.





BENEFITS OF TRUCOIL SCREW THREAD INSERTS

- Better quality and performance while reducing overall product cost.
- Create internal threads in which wear due to thread friction is virtually eliminated.
- Useful in applications where repeated assembly & disassembly is required.
- Protect tapped threads against failures due to stripping, seizing, corrosion and wear.
- Create internal threads with greatly improved distribution of residual stress loading.
- Compensate for pitch and flank angle errors.
- Can generally be introduced into existing designs where no previous provision has been made.
- Make it possible to use thinner sections or lighter parent materials without sacrificing thread strength.



TRUCOIL LOCKING INSERTS

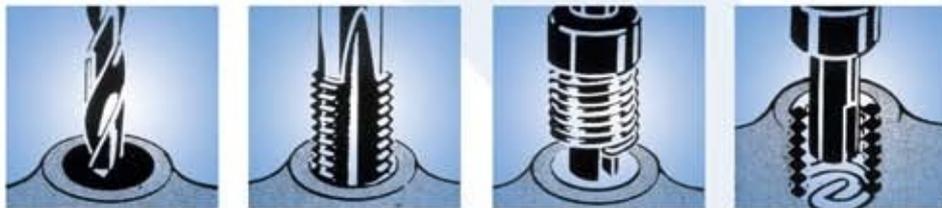
Specially designed with locking coils to hold the bolt or screw in. Greatly reduces components such as lock nuts, spring washers, or wires through bolt heads. A space, weight, component and cost saving.

Trucoil inserts are also available in locking types with specially designed locking coils which securely lock bolts and screws and are vibration resistant and can eliminate the need for lock nuts, lock washers, etc.

How Trucoil locking inserts work

One or more of the coils has a series of straight segments. Upon entry of the bolt these straight segments are flexed outwardly, creating pressure on the bolt. This pressure is applied between the flanks of the bolt thread so that contact area is maximized and unit pressure is minimized. It is often possible to realize cycle life far in excess of specification requirements.

INSTALLATION PROCESS OF HELICOIL INSERTS



Drill

Drill to clear out the damaged thread (if necessary).

Tap

Thread insert tap supplied. Tap thread should match up with bolt.

Install

Wind insert in with light downward pressure until 1/4 to 1/2 turn below surface, driving tang towards bottom of the hole.

Tang Removal

Remove tool and sit back on top of tang. Tap down sharply. Do not try to twist tang off. Sparkplug and large fine threads, use long nose pliers and pull tang out.



APPLICATION AREAS

Aerospace

With the extensive use of lightweight alloys throughout the aerospace industry, Trucoil wire thread inserts are used increasingly to provide a strong, reliable thread capable of withstanding a high degree of vibration, extreme temperatures and repeated assembly and disassembly. Today, Trucoil wire thread inserts, supported by Civil Aviation Safety Authority and Society of British Aerospace Companies Approvals, are widely used by aerospace companies throughout the world.

Automotive

Trucoil is continually increasing its involvement in the automotive industry as the use of lightweight alloys becomes predominant. This has led to increased co-operation with many of the world's leading automotive manufacturers and is supported by Trucoil's Quality Program encompassing ISO9001 and ISO9000 accreditation.

OEM

The use of Trucoil inserts is now fully accepted in most modern manufacturing facilities including electronics, defence, transport, heavy machinery and many others.

Maintenance & Repair

Trucoil's easy-to-use and convenient thread repair kits provide a simple solution to worn and damaged threads in industrial machinery, automobiles, boats and many other components and items involving precision threads.



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