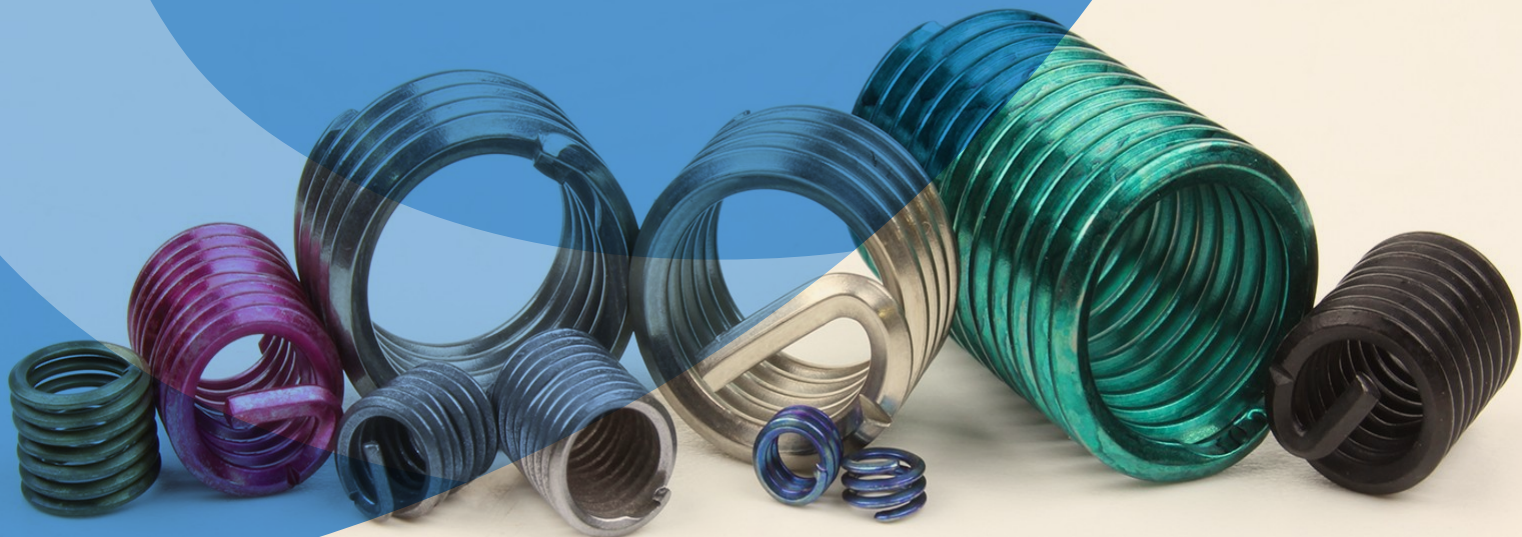


sticoil

STI FASTENERS

STI Fasteners is engaged in the manufacturing of “STICOIL” SCREW THREAD INSERTS (helicoils), its Installation Tools and Thread Repair Kits. We are the market leader of Thread Insert fastener (helicoil) in the Indian industry and are the major supplier of such niche fasteners to leading core sectors like Defence, Aerospace, Automobiles, Atomic Energy, Power Engg., Mining, Material Handling, Textile machinery & others.



Our mission is to design, manufacture and service the industries while maintaining high quality standards. We are dedicated to manufacture technologically advanced products to cater our customers' needs and specific requirements.

Quality has infinite dimension. So we have evolved a very comprehensive quality planning concept to translate our quality goals into reality. Thus, 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 Mission & STRENGTH

For quality concerns, we can arrange for Chemical, Physical and Mechanical test reports from Government approved laboratories. The unique design flexibility of Screw Thread Inserts creates superior, stronger thread engagements whose compound performance is novel in fastening systems. The quality conformance shall be at par in line of best brands available across the world.

We are always keen to understand the specific needs of the customers to serve them with excellence. Our main aim is to provide best quality, competitive price and excellent service to our customers.

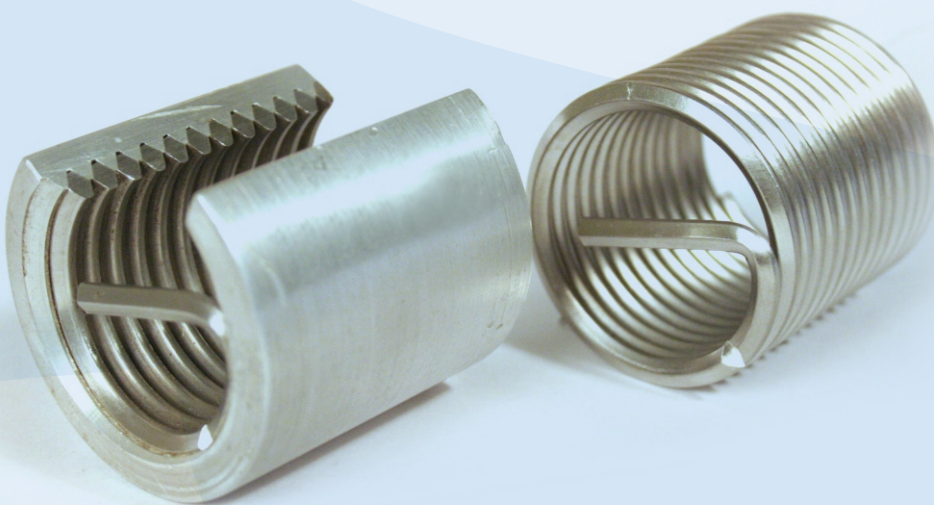


Our Product Range

A Screw Thread Insert (STI-COIL) is an insert made of helically coiled wire of diamond shaped Stainless Steel or phosphor bronze to screw into a threaded hole to form a mating internal thread for a screw or stud. These inserts provide a convenient means of repairing stripped-out threads and are also used to provide stronger threads in soft materials such as aluminium, zinc die castings, wood, magnesium etc. that can be obtained by direct tapping of the base metal involved.

It is available in two types one is Free Running Type and other one is Self-Locking Type.

Product Range Standard & Screw lock	
ISO Metric Coarse Pitches	M 1.6 – M 52
ISO Metric Fine Pitches	M8 x 1 – M52 x 4.0
UNC	2 – 56 to 1 ½"
UNF	2 – 64 to 1 ½"
BSW	1/8" to 1 ½"
BSF	¼" to 1 3/8"
BSP	1/8" to 1 3/8"
Including Installation Taps, Tools & Gauges	



Free Running / Standard Inserts

The standard or Free Running STI-COIL helically coiled insert with precision-formed rounded coils and a diamond shaped cross-section. When installed, they provide the hole with smooth free running threads.



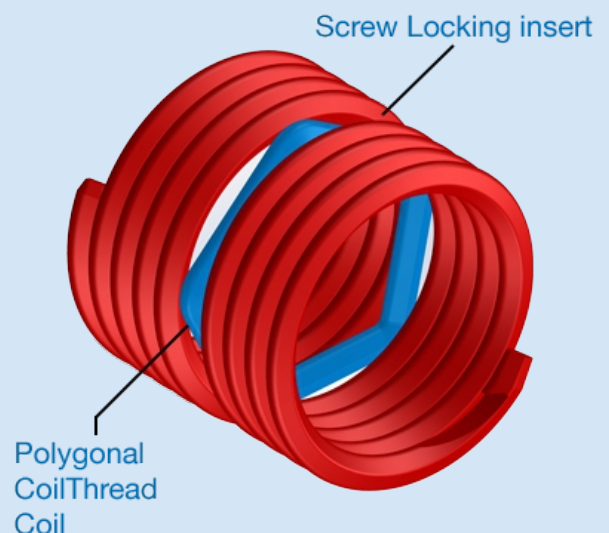
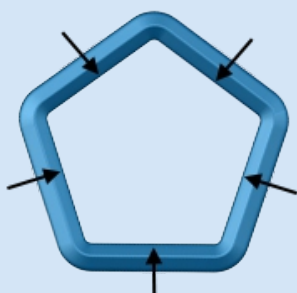
Screw-Lock / Mid Grip / Self-Lock Inserts

STI-COIL, Screw Lock Inserts have all the characteristics of free running inserts but in addition, one or more coils in the middle of the STI-COIL are polygon shaped. These coils serve as a locking device by gripping the threads of the installed screw, effectively preventing the screw from loosening under vibration impact.

STI-COIL Screw Lock Inserts permit frequent removal and reassembly of bolts without appreciable loss of torque. They positively secure the screw against loosening caused by vibration and shock and they will not relax their grip on the screw even in tough metals such as cast iron, alloy steel, titanium etc.



Locking coil segments exert prevailing torque between the thread flanks of the screw, or bolt, to resist loosening.



Materials:

Screw Thread Inserts are generally manufactured from Stainless Steel Wire Grade AISI 304(18-8). However, inserts are available in a range of materials like:

- Special purpose Stainless Steel AISI 304 – Non-magnetic
- Stainless Steel Grade AISI 316 & AISI 316L
- Special purpose materials such as Inconel -X750, Phosphor Bronze and others.



STI-COIL conforming to following manufacturing standards:-

- DIN 8140 – 1
- BS 7751/7752/4377
- MS 122076 – 124850/21209, MIL-8846
- NASM 8846, ASME B 18.29.1, ASME B 18.29.2M



Installation Tools & Accessories

Following fixing tools are available for smooth installation of STI-COIL Thread Insert.

- Drill
- STI Tap
- InsertionTool
- Tang Break-Off Tool
- ExtractionTools
- Thread Plug Gauge
- Thread Repair Kits



Benefits of

STI COIL 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.



Installation Process of **STI COIL TREAD INSERT**

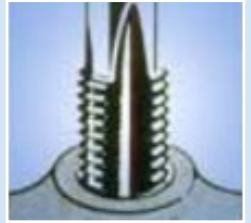
STEP-01

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



STEP-02

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



STEP-03

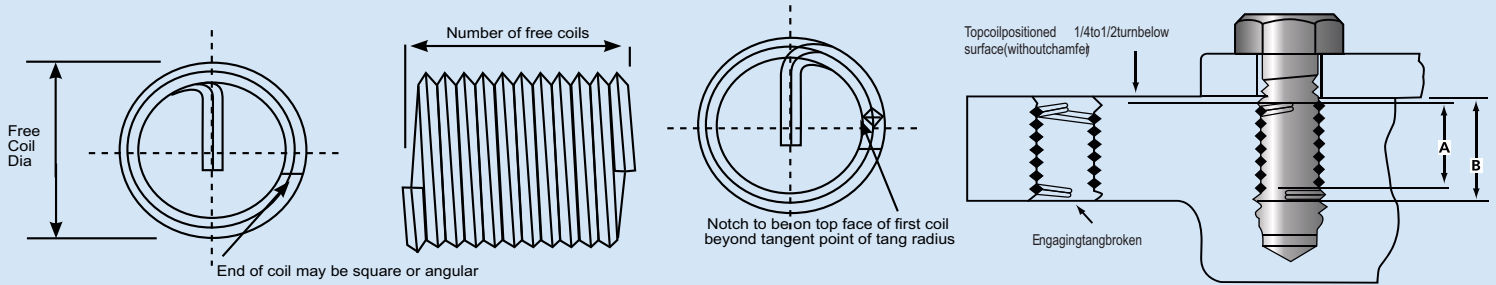
Install : Wind insert in with light downward pressure untill $\frac{1}{4}$ to $\frac{1}{2}$ turn below surface, driving tang towards bottom of the hole.



STEP-04

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.



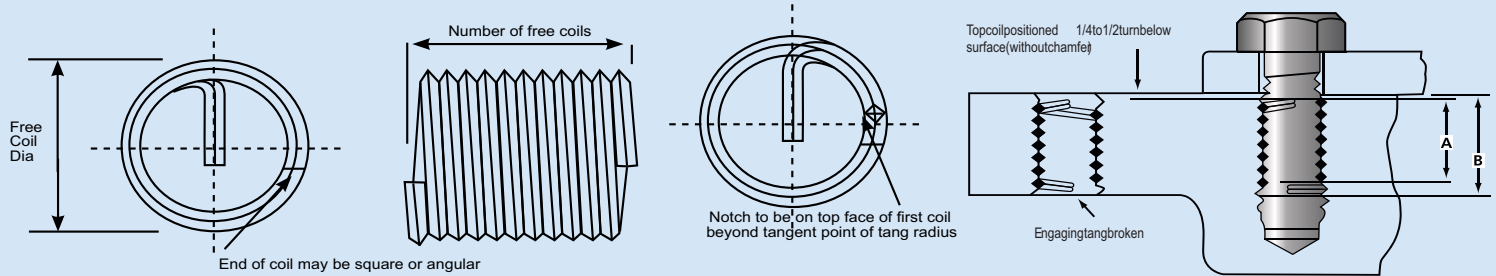


STICOIL Thread Insert Technical and Dimensional Data Sheet

Nominal Diameter d	Pitch mm	A - Thread Fitted Length					B - Nominal Length					Bit Ø mm	D Ext Ø When Free		N - Number of Turns When Free				
		1D	1.5D	2D	2.5D	3D	1D	1.5D	2D	2.5D	3D		min.	max.	1D	1.5D	2D	2.5D	3D
M1.6	0.35	1.25	2.05	2.85	3.65	4.45	1.60	2.40	3.20	4.00	4.80	1.70	2.00	2.15	2.75	4.80	6.80	8.90	10.90
M2	0.40	1.60	2.60	3.60	4.60	5.60	2.00	3.00	4.00	5.00	6.00	2.10	2.50	2.70	3.50	5.90	7.80	10.00	12.20
M2.5	0.45	2.05	3.30	4.55	5.80	7.05	2.50	3.75	5.00	6.25	7.50	2.60	3.30	3.50	3.50	5.90	8.10	10.50	12.90
M3	0.50	2.50	4.00	5.50	7.00	8.50	3.00	4.50	6.00	7.50	9.00	3.20	3.80	4.00	3.90	6.30	8.70	11.10	13.50
M4	0.70	3.30	5.30	7.30	9.30	11.30	4.00	6.00	8.00	10.00	12.00	4.20	5.15	5.35	3.70	6.10	8.40	10.90	13.20
M5	0.80	4.20	6.70	9.20	11.70	14.20	5.00	7.50	10.00	12.50	15.00	5.20	6.35	6.60	4.30	6.90	9.70	12.30	14.80
M6	1.00	5.00	8.00	11.00	14.00	17.00	6.00	9.00	12.00	15.00	18.00	6.20	7.60	7.85	4.20	6.90	9.60	12.30	14.60
M7	1.00	6.00	9.50	13.00	16.50	20.00	7.00	10.50	14.00	17.50	21.00	7.30	8.65	8.90	5.30	8.20	11.10	14.30	17.40
M8	1.25	6.75	10.75	14.75	18.75	22.75	8.00	12.00	16.00	20.00	24.00	8.30	9.85	10.10	4.70	7.40	10.60	13.50	16.40
M8	1.00	7.00	11.00	15.00	19.00	23.00	8.00	12.00	16.00	20.00	24.00	8.30	9.85	10.10	6.10	9.50	12.90	16.50	19.90
M9	1.25	7.75	12.25	16.75	21.25	25.75	9.00	13.50	18.00	22.50	27.00	9.40	10.85	11.10	5.30	8.60	11.90	15.30	18.10
M10	1.50	8.50	13.50	18.50	23.50	28.50	10.00	15.00	20.00	25.00	30.00	10.50	12.10	12.50	5.00	8.10	11.20	14.20	17.20
M10	1.25	8.75	13.75	18.75	23.75	28.75	10.00	15.00	20.00	25.00	30.00	10.40	12.10	12.50	6.00	9.70	13.10	16.90	20.10
M10	1.00	9.00	14.00	19.00	24.00	29.00	10.00	15.00	20.00	25.00	30.00	10.30	12.10	12.50	7.60	12.10	16.30	20.70	25.00
M11	1.50	9.50	15.00	20.50	26.00	31.50	11.00	16.50	22.00	27.50	33.00	11.50	13.10	13.50	5.60	9.00	12.30	15.70	18.90
M12	1.75	10.25	16.25	22.25	28.25	34.25	12.00	18.00	24.00	30.00	36.00	12.50	14.40	14.80	5.20	8.40	11.70	14.70	18.00
M12	1.50	10.50	16.50	22.50	28.50	34.50	12.00	18.00	24.00	30.00	36.00	12.50	14.40	14.80	6.20	9.80	13.50	15.70	20.80
M12	1.25	10.75	16.75	22.75	28.75	34.75	12.00	18.00	24.00	30.00	36.00	12.40	14.40	14.80	7.40	11.60	15.90	20.70	24.80
M12	1.00	11.00	17.00	23.00	29.00	35.00	12.00	18.00	24.00	30.00	36.00	12.30	14.40	14.80	9.30	14.50	19.50	24.80	30.00
M14	2.00	12.00	19.00	26.00	33.00	40.00	14.00	21.00	28.00	35.00	42.00	14.50	16.80	17.70	5.20	8.30	11.50	14.60	17.60
M14	1.50	12.50	19.50	26.50	33.50	40.50	14.00	21.00	28.00	35.00	42.00	14.50	16.80	17.70	7.10	11.20	15.30	19.00	23.20
M14	1.25	12.75	19.75	26.75	33.75	40.75	14.00	21.00	28.00	35.00	42.00	14.40	16.80	17.70	8.40	13.30	18.20	23.10	28.00
M16	2.00	14.00	22.00	30.00	38.00	46.00	16.00	24.00	32.00	40.00	48.00	16.50	19.00	19.90	6.10	9.70	13.30	16.80	19.60
M16	1.50	14.50	22.50	30.50	38.50	46.50	16.00	24.00	32.00	40.00	48.00	16.50	19.00	19.90	8.30	13.00	17.70	22.40	27.60
M18	2.50	15.50	24.50	33.50	42.50	51.50	18.00	27.00	36.00	45.00	54.00	18.75	21.50	22.00	5.60	9.00	12.30	15.50	18.80
M18	2.00	16.00	25.00	34.00	43.00	52.00	18.00	27.00	36.00	45.00	54.00	18.50	21.50	22.00	7.10	11.20	15.10	19.10	23.20
M18	1.50	16.50	25.50	34.50	43.50	52.50	18.00	27.00	36.00	45.00	54.00	18.50	21.50	22.00	9.50	14.90	20.20	25.80	31.30
M20	2.50	17.50	27.50	37.50	47.50	57.50	20.00	30.00	40.00	50.00	60.00	20.75	23.70	24.20	6.30	10.00	13.70	17.40	21.00
M20	2.00	18.00	28.00	38.00	48.00	58.00	20.00	30.00	40.00	50.00	60.00	20.50	23.70	24.20	8.00	12.50	16.80	21.00	25.20
M20	1.50	18.50	28.50	38.50	48.50	58.50	20.00	30.00	40.00	50.00	60.00	20.50	23.70	24.20	10.70	16.80	22.80	28.80	35.00
M22	2.50	19.50	30.50	41.50	52.50	63.50	22.00	33.00	44.00	55.00	66.00	22.75	26.30	26.80	6.90	10.90	15.00	18.50	22.80
M22	2.00	20.00	31.00	42.00	53.00	64.00	22.00	33.00	44.00	55.00	66.00	22.50	26.30	26.80	8.70	13.60	18.40	23.10	27.70
M22	1.50	20.50	31.50	42.50	53.50	64.50	22.00	33.00	44.00	55.00	66.00	22.50	26.30	26.80	11.70	18.10	24.50	35.50	38.25
M24	3.00	21.00	33.00	45.00	57.00	69.00	24.00	36.00	48.00	60.00	72.00	24.75	28.60	29.10	6.20	10.00	14.00	17.50	21.30
M24	2.00	22.00	34.00	46.00	58.00	70.00	24.00	36.00	48.00	60.00	72.00	24.50	28.60	29.10	9.60	15.00	20.20	25.80	31.25
M24	1.50	22.50	34.50	46.50	58.50	70.50	24.00	36.00	48.00	60.00	72.00	24.50	28.60	29.10	12.90	19.80	26.70	33.60	40.50
M26	1.50	24.50	37.50	50.50	63.50	76.50	26.00	39.00	52.00	65.00	78.00	26.50	31.00	31.50	14.00	21.60	29.10	36.50	43.80
M27	3.00	24.00	37.50	51.00	64.50	78.00	27.00	40.50	54.00	67.50	81.00	27.75	32.20	32.70	7.10	11.40	15.40	19.40	23.70
M27	2.00	25.00	38.50	52.00	65.50	79.00	27.00	40.50	54.00	67.50	81.00	27.50	32.20	32.70	10.80	16.80	22.60	28.60	34.40
M27	1.50	25.50	39.00	52.50	66.00	79.50	27.00	40.50	54.00	67.50	81.00	27.50	32.20	32.70	14.60	22.60	30.00	37.80	45.60
M28	1.50	26.50	40.50	54.50	68.50	82.50	28.00	42.00	56.00	70.00	84.00	28.50	33.10	33.60	15.20	23.30	31.40	39.50	47.50
M30	3.50	26.50	41.50	56.50	71.50	86.50	30.00	45.00	60.00	75.00	90.00	31.00	35.20	35.70	7.00	11.00	14.90	18.80	22.70
M30	2.00	28.00	43.00	58.00	73.00	88.00	30.00	45.00	60.00	75.00	90.00	30.50	35.20	35.70	12.30	19.00	25.50	32.00	38.50
M30	1.50	28.50	43.50	58.50	73.50	88.50	30.00	45.00	60.00	75.00	90.00	30.50	35.20	35.70	16.50	25.30	34.00	42.80	51.50
M33	3.50	29.50	46.00	62.50	79.00	95.50	33.00	49.50	66.00	82.50	99.00	34.00	38.30	38.80	7.80	12.20	16.50	20.90	25.20
M33	2.00	31.00	47.50	64.00	80.50	97.00	33.00	49.50	66.00	82.50	99.00	33.50	38.30	38.80	13.70	21.20	28.40	35.90	43.10
M33	1.50	32.50	49.50	66.50	83.50	100.50	34.00	51.00	68.00	85.00	102.00	34.50	39.10	39.40	19.40	29.00	39.50	49.50	59.50
M36	4.00	32.00	50.00	68.00	86.00	104.00	36.00	54.00	72.00	90.00	108.00	37.00	42.10	42.60	7.00	11.10	15.20	19.30	23.40
M36	3.00	33.00	51.00	69.00	87.00	105.00	36.00	54.00	72.00	90.00	108.00	37.00	42.10	42.60	9.90	15.30	20.50	25.90	30.10
M36	2.00	34.00	52.00	70.00	88.00	106.00	36.00	54.00	72.00	90.00	108.00	36.50	42.10	42.60	14.10	21.90	31.10	38.90	39.10
M36	1.50	34.50	52.50	70.50	88.50	106.50	36.00	54.00	72.00	90.00	108.00	36.50	42.10	42.60	18.80	26.70	37.80	46.30	54.80
M39	4.00	35.00	54.50	74.00	93.50	113.00	39.00	58.50	78.00	97.50	117.00	40.00	45.10	45.60	7.70	12.20	16.60	21.10	25.50
M39	3.00	36.00	55.50	75.00	94.50	114.00	39.00	58.50	78.00	97.50	117.00	40.00	45.10	45.60	10.80	16.80	22.50	28.50	34.20
M42	4.50	37.50	58.50	79.50	100.50	121.50	42.00	63.00	84.00	105.00	126.00	43.00	48.50	49.00	7.30	11.60	15.60	19.90	23.90
M42	3.00	39.00	60.00	81.00	102.00	123.00	42.00	63.00	84.00	105.00	126.00	43.00	48.50	49.00	11.70	18.10	24.00	30.40	36.30
M45	4.50	40.50	63.00	85.50	108.00	130.50	45.00	67.50	90.00	112.50	135.00	46.00	53.50	54.00	8.00	12.40	16.80	21.20	25.60
M45	3.00	42.00	64.50	87.00	109.50	132.00	45.00	67.50	90.00	112.50	135.00	46.00	52.00	52.50	12.50	19.30	26.20	33.00	39.90

Note :

- As Nominal Length (B) can not be measured in the delivered condition so the acceptance criteria shall be Outside Diameter (D) and Number of Turns (N).
- The Number of Turn may be smaller by 0.25mm.



STICOIL Thread Insert Technical and Dimensional Data Sheet

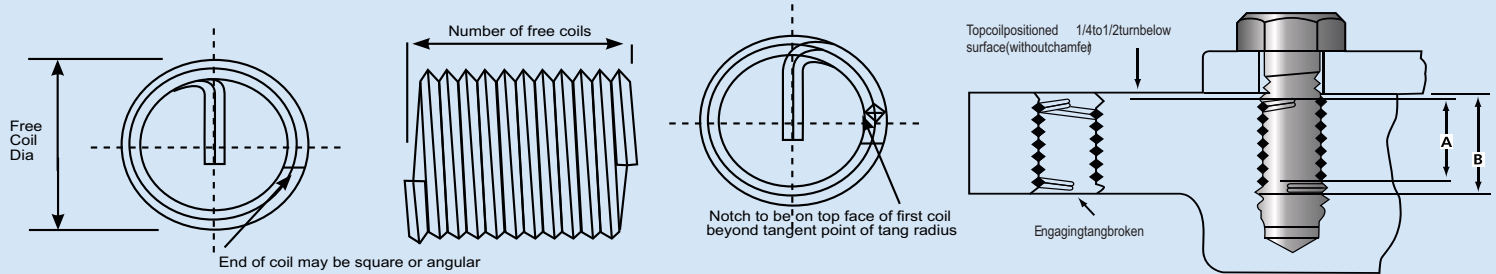
Nominal Diameter (d) UNC	Pitch mm	A - Thread Fitted Length					B - Nominal Length					Bit Ø mm	D Ext Ø When Free		N - Number of Turns When Free $\pm 1/4$				
		1D	1.5D	2D	2.5D	3D	1D	1.5D	2D	2.5D	3D		min.	max.	1D	1.5D	2D	2.5D	3D
2-56	0.453	1.73	2.83	3.92	5.01	6.10	2.18	3.28	4.37	5.46	6.55	2.40	2.80	3.00	3.00	5.20	7.40	9.60	11.80
3-48	0.529	1.98	3.23	4.50	5.77	7.01	2.51	3.76	5.03	6.30	7.54	2.70	3.20	3.50	2.80	5.00	7.20	9.40	11.50
4-40	0.635	2.21	3.63	5.05	6.47	7.89	2.84	4.26	5.68	7.10	8.52	3.10	3.60	4.00	2.80	4.80	6.80	8.80	10.80
5-40	0.635	2.54	4.12	5.71	7.29	8.88	3.17	4.76	6.34	7.93	9.51	3.40	4.00	4.40	3.30	5.50	7.80	10.00	12.20
6-32	0.794	2.71	4.46	6.21	7.96	9.71	3.50	5.25	7.00	8.75	10.50	3.80	4.50	4.90	2.80	4.80	6.70	8.70	10.80
8-32	0.794	3.37	5.45	7.53	9.61	11.69	4.16	6.24	8.32	10.40	12.48	4.40	5.20	5.60	3.50	5.90	8.30	10.70	13.20
10-24	1.058	3.76	6.17	8.58	10.99	13.40	4.82	7.23	9.64	12.05	14.46	5.20	6.20	6.60	2.90	5.00	7.10	9.20	11.40
12-24	1.058	4.42	7.16	9.90	12.64	15.38	5.48	8.22	10.96	13.70	16.44	5.80	6.80	7.20	3.50	5.90	8.30	10.70	13.20
1/4-20	1.270	5.08	8.26	11.43	14.61	17.78	6.35	9.53	12.70	15.88	19.05	6.70	8.00	8.40	3.40	5.70	8.00	10.30	12.70
5/16-18	1.411	6.51	10.47	14.43	18.39	22.35	7.92	11.88	15.84	19.80	23.76	8.40	9.70	10.20	4.00	6.60	9.30	11.90	14.70
3/8-16	1.588	7.93	12.69	17.45	22.21	26.97	9.52	14.28	19.04	23.80	28.56	10.10	11.50	12.00	4.40	7.20	10.00	12.90	15.70
7/16-14	1.814	9.30	14.85	20.41	25.96	31.52	11.11	16.67	22.22	27.78	33.33	11.60	13.40	14.00	4.50	7.40	10.30	13.10	16.10
1/2-13	1.954	10.75	17.10	23.45	29.80	36.15	12.70	19.05	25.40	31.75	38.10	13.20	15.20	15.80	4.80	7.90	10.90	13.90	17.10
9/16-12	2.117	12.15	19.29	26.42	33.56	40.69	14.27	21.41	28.54	35.68	42.81	14.90	17.00	17.60	5.10	8.30	11.50	14.70	17.80
5/8-11	2.309	13.56	21.50	29.43	37.37	45.30	15.87	23.81	31.74	39.68	47.61	16.50	18.90	19.50	5.30	8.30	11.80	15.00	18.40
3/4-10	2.540	16.51	26.04	35.56	45.09	54.61	19.05	28.58	38.10	47.63	57.15	19.80	22.40	23.00	5.90	9.40	13.00	16.50	20.20
7/8-9	2.822	19.40	30.51	41.62	52.73	63.84	22.22	33.33	44.44	55.55	66.66	23.00	26.00	26.70	6.30	10.00	13.70	17.50	21.30
1"-8	3.175	22.23	34.93	47.63	60.33	73.03	25.40	38.10	50.80	63.50	76.20	26.40	29.60	30.40	6.40	10.20	14.00	17.70	21.60
1" 1/8-7	3.629	24.94	39.23	53.51	67.80	82.08	28.57	42.86	57.14	71.43	85.71	29.50	33.40	34.40	6.30	9.90	13.60	17.50	21.30
1" 1/4-7	3.629	28.12	44.00	59.87	75.75	91.62	31.75	47.63	63.50	79.38	95.25	32.80	36.70	37.70	7.00	11.12	15.40	19.50	23.70
1" 3/8-6	4.234	30.69	48.15	65.61	83.07	100.53	34.92	52.38	69.84	87.30	104.76	36.20	40.60	41.70	6.50	10.50	14.40	18.40	22.30
1" 1/2-6	4.234	33.87	52.92	71.97	91.02	110.07	38.10	57.15	76.20	95.25	114.30	39.50	43.90	45.00	7.20	11.15	15.90	20.20	24.50

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2-64	0.396	1.78	2.88	3.97	5.06	6.15	2.18	3.28	4.37	5.46	6.55	2.30	2.79	3.02	3.50	5.60	8.00	10.40	12.50
3-56	0.453	2.06	3.31	4.58	5.85	7.09	2.51	3.76	5.03	6.30	7.54	2.70	3.30	3.70	3.40	5.60	8.00	10.40	12.60
4-48	0.529	2.31	3.74	5.16	6.58	8.00	2.84	4.27	5.69	7.11	8.53	3.00	3.70	4.10	3.40	5.60	7.90	10.20	12.50
6-40	0.635	2.87	4.63	6.38	8.13	9.88	3.50	5.26	7.01	8.76	10.51	3.80	4.50	4.90	3.80	6.00	8.40	10.80	13.20
8-36	0.706	3.45	5.54	7.62	9.70	11.79	4.16	6.25	8.33	10.41	12.50	4.40	5.30	5.70	4.00	6.60	9.10	11.70	14.20
10-32	0.794	4.03	6.45	8.86	11.27	13.69	4.82	7.24	9.65	12.06	14.48	5.10	6.10	6.50	4.10	6.80	9.50	12.10	14.90
1/4-28	0.907	5.44	8.61	11.79	14.96	18.14	6.35	9.52	12.70	15.87	19.05	6.70	7.80	8.30	5.00	8.10	11.30	14.40	17.60
5/16-24	1.058	6.86	10.85	14.81	18.77	22.74	7.92	11.91	15.87	19.83	23.80	8.30	9.70	10.20	5.50	8.90	12.20	15.60	19.00
3/8-24	1.058	8.46	13.21	17.99	22.74	27.51	9.52	14.27	19.05	23.80	28.57	9.90	11.40	11.90	6.90	10.90	14.90	19.00	23.20
7/16-20	1.270	9.84	15.39	20.95	26.51	32.05	11.11	16.66	22.22	27.78	33.32	11.50	13.40	13.90	6.90	10.60	14.50	18.40	22.50
1/2-20	1.270	11.43	17.78	24.13	30.48	36.83	12.70	19.05	25.40	31.75	38.10	13.10	15.10	15.70	7.80	12.30	16.80	21.30	25.90
9/16-18	1.411	12.86	20.02	27.16	34.30	41.44	14.27	21.43	28.57	35.71	42.85	14.70	16.90	17.60	7.90	12.50	17.10	21.60	26.20
5/8-18	1.411	14.46	22.39	30.34	38.26	46.21	15.87	23.80	31.75	39.67	47.62	16.30	18.60	19.30	8.90	14.10	19.10	24.30	29.40
3/4-16	1.588	17.46	26.98	36.51	46.03	55.56	19.05	28.57	38.10	47.62	57.15	19.50	22.20	22.90	9.70	15.10	20.60	26.00	31.50
7/8-14	1.814	20.41	31.51	42.64	53.74	64.86	22.22	33.32	44.45	55.55	66.67	22.70	26.00	26.70	9.90	15.40	21.00	26.60	32.20
1"-14	1.814	23.59	36.29	48.99	61.69	74.39	25.40	38.10	50.80	63.50	76.20	26.00	29.40	30.10	11.50	17.90	24.30	30.60	37.00
1"-12	2.117	23.28	35.98	48.68	61.38	74.08	25.40	38.10	50.80	63.50	76.20	26.00	29.70	30.40	9.70	15.10	20.60	26.10	31.50
1" 1/8-12	2.117	26.45	40.73	55.03	69.30	83.60	28.57	42.85	57.15	71.42	85.72	29.20	33.20	33.90	11.10	17.30	23.40	29.60	35.70
1" 1/4-12	2.117	29.63	45.50	61.38	77.25	93.13	31.75	47.62	63.50	79.37	95.25	32.40	36.60	37.30	12.40	19.30	26.10	33.00	39.80
1" 3/8-12	2.117	32.80	50.25	67.73	85.18	102.65	34.92	52.37	69.85	87.30	104.77	35.50	40.00	40.90	13.80	21.30	28.90	36.50	44.00
1" 1/2-12	2.117	35.98	55.03	74.08	93.13	112.18	38.10	57.15	76.20	95.25	114.30	38.70	43.40	44.30	15.20	23.40	31.60	39.80	48.20

Note :

- As Nominal Length (B) can not be measured in the delivered condition so the acceptance criteria shall be Outside Diameter (D) and Number of Turns (N).
- The Number of Turn may be smaller by 0.25mm.



STICOIL Thread Insert Technical and Dimensional Data Sheet

Nominal Diameter (d) BSW	Pitch mm	A - Thread Fitted Length					B - Nominal Length					Bit Ø mm	D Ext Ø When Free		N - Number of Turns When Free 1/4				
		1D	1.5D	2D	2.5D	3D	1D	1.5D	2D	2.5D	3D		min.	max.	1D	1.5D	2D	2.5D	3D
1/8-40	0.635	2.50	4.10	5.70	7.30	8.90	3.20	4.80	6.30	7.90	9.50	3.40	4.00	4.40	3.40	5.60	7.90	10.30	12.40
3/16-24	1.058	3.70	6.10	8.50	10.90	13.20	4.80	7.10	9.50	11.90	14.30	5.10	6.10	6.50	2.90	5.10	7.10	9.30	11.50
1/4-20	1.270	5.08	8.26	11.43	14.61	17.78	6.35	9.53	12.70	15.88	19.05	6.70	8.00	8.40	3.40	5.70	8.00	10.30	12.70
5/16-18	1.411	6.51	10.47	14.43	18.39	22.35	7.92	11.88	15.84	19.80	23.76	8.40	9.70	10.20	4.00	6.60	9.30	11.90	14.70
3/8-16	1.588	7.93	12.69	17.45	22.21	26.97	9.52	14.28	19.04	23.80	28.56	10.10	11.50	12.00	4.40	7.20	10.00	12.90	15.70
7/16-14	1.814	9.30	14.85	20.41	25.96	31.52	11.11	16.67	22.22	27.78	33.33	11.60	13.40	14.00	4.50	7.40	10.30	13.10	16.10
1/2-12	2.117	10.58	16.93	23.28	29.63	35.98	12.70	19.05	25.40	31.75	38.10	13.20	15.40	16.00	4.80	7.90	10.90	13.90	17.10
9/16-12	2.117	12.15	19.29	26.42	33.56	40.69	14.27	21.41	28.54	35.68	42.81	14.90	17.00	17.60	5.10	8.30	11.50	14.70	17.80
5/8-11	2.309	13.56	21.50	29.43	37.37	45.30	15.87	23.81	31.74	39.68	47.61	16.50	18.90	19.50	5.30	8.30	11.80	15.00	18.40
3/4-10	2.540	16.51	26.04	35.56	45.09	54.61	19.05	28.58	38.10	47.63	57.15	19.80	22.40	23.00	5.90	9.40	13.00	16.50	20.20
7/8-9	2.822	19.40	30.51	41.62	52.73	63.84	22.22	33.33	44.44	55.55	66.66	23.00	26.00	26.70	6.30	10.00	13.70	17.50	21.30
1"-8	3.175	22.23	34.93	47.63	60.33	73.03	25.40	38.10	50.80	63.50	76.20	26.40	29.60	30.40	6.40	10.20	14.00	17.70	21.60
1" 1/8-7	3.629	24.94	39.23	53.51	67.80	82.08	28.57	42.86	57.14	71.43	85.71	29.50	33.40	34.40	6.30	9.90	13.60	17.50	21.30
1" 1/4-7	3.629	28.12	44.00	59.87	75.75	91.62	31.75	47.63	63.50	79.38	95.25	32.80	36.70	37.70	7.00	11.12	15.40	19.50	23.70
1" 1/2-6	4.234	33.87	52.92	71.97	91.02	110.07	38.10	57.15	76.20	95.25	114.30	39.50	43.90	45.00	7.20	11.15	15.90	20.20	24.50

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1/4-26	0.977	5.42	8.52	11.72	14.92	18.12	6.40	9.50	12.70	15.90	19.10	6.70	7.90	8.40	4.60	7.60	10.40	13.40	16.50
5/16-22	1.155	6.75	10.75	14.75	18.65	22.65	7.90	11.90	15.90	19.80	23.80	8.30	9.80	10.30	5.00	8.10	11.20	14.30	17.70
3/8-20	1.270	8.23	13.03	17.83	22.53	27.33	9.50	14.30	19.10	23.80	28.60	9.90	11.60	12.10	5.60	9.00	12.40	15.80	19.20
7/16-18	1.411	9.69	15.29	20.79	26.39	31.89	11.10	16.70	22.20	27.80	33.30	11.50	13.60	14.10	5.90	9.50	13.10	16.60	20.20
1/2-16	1.588	11.11	17.51	23.81	30.21	36.51	12.70	19.10	25.40	31.80	38.10	13.20	15.50	16.00	6.10	9.70	13.30	16.90	20.50
9/16-16	1.588	12.71	19.91	27.01	34.11	41.31	14.30	21.50	28.60	35.70	42.90	14.70	17.20	17.80	7.00	11.10	15.10	19.30	23.40
5/8-14	1.814	14.09	21.99	29.99	37.89	45.79	15.90	23.80	31.80	39.70	47.60	16.40	19.10	19.70	6.80	10.80	14.80	18.70	22.80
3/4-12	2.117	16.98	26.48	35.98	45.48	55.08	19.10	28.60	38.10	47.60	57.20	19.50	22.90	23.50	7.00	11.10	15.20	19.30	23.40
7/8-11	2.309	19.89	30.99	42.19	53.29	64.39	22.20	33.30	44.50	55.60	66.70	22.70	26.50	27.30	7.60	11.90	16.40	20.80	25.20
1"-10	2.540	22.86	35.56	48.26	60.96	73.66	25.40	38.10	50.80	63.50	76.20	26.50	30.20	31.00	7.90	12.50	17.10	21.60	26.20
1" 1/8-9	2.822	25.78	40.08	54.38	68.58	82.88	28.60	42.90	57.20	71.40	85.70	29.50	33.90	34.70	8.10	12.70	17.30	21.90	26.50
1" 1/4-9	2.822	28.98	44.78	60.68	76.58	92.48	31.80	47.60	63.50	79.40	95.30	32.70	37.30	38.10	9.10	14.30	19.40	24.60	29.80
1" 3/8-8	3.175	31.73	49.23	66.73	84.13	101.63	34.90	52.40	69.90	87.30	104.80	36.00	41.20	42.10	8.80	13.90	18.90	23.90	28.80

BSP

1/8-28	0.907	2.29	3.89	5.49	6.99	8.59	3.20	4.80	6.40	7.90	9.50	10.00	11.50	12.00	1.90	3.60	5.10	6.70	7.90
1/4-19	1.337	5.06	8.16	11.36	14.56	17.76	6.40	9.50	12.70	15.90	19.10	13.60	15.70	16.20	3.10	5.30	7.40	9.60	11.90
3/8-19	1.337	8.16	12.96	17.76	22.46	27.26	9.50	14.30	19.10	23.80	28.60	17.20	19.50	20.00	5.30	8.50	11.80	15.00	17.40
1/2-14	1.814	10.89	17.29	23.59	29.99	36.29	12.70	19.10	25.40	31.80	38.10	21.50	24.60	25.20	5.20	8.40	11.60	14.80	18.00
5/8-14	1.814	14.09	21.99	29.99	37.89	45.79	15.90	23.80	31.80	39.70	47.60	23.50	26.70	27.40	6.80	10.80	14.80	18.80	22.80
3/4-14	1.814	17.29	26.79	36.29	45.79	55.39	19.10	28.60	38.10	47.60	57.20	27.00	30.50	31.20	8.40	13.30	18.10	23.00	28.00
7/8-14	1.814	20.39	31.49	42.69	53.69	64.89	22.20	33.30	44.50	55.50	66.70	30.70	34.60	35.30	10.00	15.60	21.30	26.80	32.50
1"-11	2.309	23.09	35.79	48.49	61.19	73.89	25.40	38.10	50.80	63.50	76.20	33.70	38.40	39.20	8.90	13.90	19.00	24.00	29.10
1" 1/4-11	2.309	29.49	45.29	61.19	77.09	92.89	31.80	47.60	63.50	79.40	95.20	42.50	47.70	48.50	11.40	17.80	24.10	30.50	36.90
1" 1/2-11	2.309	35.79	54.89	73.89	92.89	111.89	38.10	57.20	76.20	95.20	114.20	48.50	54.10	54.90	13.90	21.60	29.30	37.00	44.70

Note :

- As Nominal Length (B) can not be measured in the delivered condition so the acceptance criteria shall be Outside Diameter (D) and Number of Turns (N).
- The Number of Turn may be smaller by 0.25mm.

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STI FASTENERS

(ISO 9001:2015 Certified Company)

J.L. No.17, Plot No. 257/783

Pandit Satghara Serampore Hooghly.

Pin- 712203, West Bengal, India.

Thank You...



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