

powercoil®

wire thread insert system

PowerCoil Thread Repair Kits include a Premium Quality HSS Tapping Drill and Bonus Inserts*



M2 – M12 (1/8" – 1/2")
PowerCoil Thread Repair Kits include all the necessary components to successfully repair damaged threads. Kits include Drill, STI Tap, Inserts, Installation Tool and Tang Break-Off Tool.

The PowerCoil Wire Thread Insert System includes a complete range of over 140 Thread Repair Kits; Free Running & Screw Locking inserts; Strip Feed Inserts; STI Hand & Machine Taps; Installation, Tang Break & Removal Tools.

SPARK PLUG REPAIR KITS

Include Pilot Nose Tap & Spark Plug Inserts

wire thread insert system features & benefits

- Lighter and Cheaper than any other equivalent type of thread insert.
- Can generally be introduced into existing designs where no previous provision has been made.
- Increase quality and performance whilst reducing overall product cost.
- Their introduction may result in the use of thinner sections or lighter parent materials without sacrificing thread strength.
- Create internal threads with greatly improved distribution of residual stress loading
- Compensate for pitch and flank angle errors
- Create internal threads in which wear due to thread friction is virtually eliminated.
- Providing threads that stay tight.

merchandising and marketing benefits

- **Sold to Distributors Only**
- **Tough and Good Looking** – Clean, modern, slim-line design of robust construction.
- **Stackable** – Subtly integrated feet interlock top and bottom of cases for secure vertical stacking.
- **Full Color Label** – In protective recess on front of box for strong in-store presence. Instruction label included on inside of lid to aid user. Rear identification label also included on base of case for warehousing and product coding.
- **Flexible Rubber Tool Holder** – This provides a neater overall kit appearance, and prevents tools from rattling around inside the box.
- **Hanger Slide Latch** – Locks the lid positively and easily, with integrated hang point for in-store display.
- **Insert Storage** – Internal ribs prevent inserts from moving to other areas of the box. "Exit Ramps" to assist in removal of smaller inserts from compartments.
- **Competitive and Same Day Shipments!**



12 Northwestern Ave. | York, ON M6M 5E5
905.812.9090 tel / 905.812.3786 fax
sales@excalind.com
www.excalind.com

*Spark Plug Thread Repair Kits are supplied with an STI Pilot Nose Tap and do not include an HSS Tapping Drill. Thread Repair Kits over M12 (1/2") and BSP kits do not include a HSS Tapping Drill.

PART NUMBERS		
SIZE	KIT No.	INSERTS
METRIC		
M2-.4	3520-2.00K	3520-2.00X1.5D
M2.2-.4	3520-2.20K	3520-2.20X1.5D
M2.5-.45	3520-2.50K	3520-2.50X1.5D
M3-.5	3520-3.00K	3520-3.50X1.5D
M3.5-.6	3520-3.50K	3520-3.50X1.5D
M4-.7	3520-4.00K	3520-4.00X1.5D
M5-.8	3520-5.00K	3520-5.00X1.5D
M6-1.0	3520-6.00K	3520-6.00X1.5D
M7-1.0	3520-7.00K	3520-7.00X1.5D
M8-1.25	3520-8.00K	3520-8.00X1.5D
M8-1.0	3521-8.00K	3521-8.00X1.5D
M9-1.25	3520-9.00K	3520-9.00X1.5D
M10-1.5	3520-10.00K	3520-10.00X1.5D
M10-1.25	3521-10.00K	3521-10.00X1.5D
M10-1.0	3523-10.00K	3523-10.00X1.5D
M11-1.5	3520-11.00K	3520-11.00X1.5D
M11-1.25	3521-11.00K	3521-11.00X1.5D
M11-1.0	3523-11.00K	3523-11.00X1.5D
M12-1.75	3520-12.00K	3520-12.00X1.5D
M12-1.5	3521-12.00K	3521-12.00X1.5D
M12-1.25	3523-12.00K	3523-12.00X1.5D
M12-1.0	3524-12.00K	3524-12.00X1.5D
M14-2.0	3520-14.00K	3520-14.00X1.5D
M14-1.5	3521-14.00K	3521-14.00X1.5D
M14-1.25	3523-14.00K	3523-14.00X1.5D
M14-1.0	3524-14.00K	3524-14.00X1.5D
M16-2.0	3520-16.00K	3520-16.00X1.5D
M16-1.5	3521-16.00K	3521-16.00X1.5D
M18-2.5	3520-18.00K	3520-18.00X1.5D
M18-2.0	3521-18.00K	3521-18.00X1.5D
M18-1.5	3523-18.00K	3523-18.00X1.5D
M20-2.5	3520-20.00K	3520-20.00X1.5D
M20-2.0	3521-20.00K	3521-20.00X1.5D
M20-1.5	3523-20.00K	3523-20.00X1.5D
M22-2.5	3520-22.00K	3520-22.00X1.5D
M22-2.0	3521-22.00K	3521-22.00X1.5D
M22-1.5	3523-22.00K	3523-22.00X1.5D
M24-3.0	3520-24.00K	3520-24.00X1.5D
M24-2.0	3521-24.00K	3521-24.00X1.5D
M24-1.5	3523-24.00K	3523-24.00X1.5D
M26-1.5	3523-26.00K	3523-26.00X1.5D
M27-3.0	3520-27.00K	3520-27.00X1.5D
M27-2.0	3521-27.00K	3521-27.00X1.5D
M27-1.5	3523-27.00K	3523-27.00X1.5D
M28-1.5	3523-28.00K	3523-28.00X1.5D
M30-3.5	3520-30.00K	3520-30.00X1.5D
M30-2.0	3521-30.00K	3521-30.00X1.5D
M30-1.5	3523-30.00K	3523-30.00X1.5D

PowerCoil Inserts

Made from high quality Diamond shape 304 stainless steel (AS7245)wire, inserts are wound to the shape of a spring thread. The insert, larger in diameter than the tapped hole, is compressed during installation, then springs back to permanently anchor the insert in the tapped hole. Can be used in applications where temperatures range up to 800°F/430°C

PART NUMBERS		
SIZE	KIT No.	INSERTS
METRIC (Cont)		
M33-3.5	3520-33.00K	3520-33.00X1.5D
M33-2.0	3521-33.00K	3521-33.00X1.5D
M36-4.0	3520-36.00K	3520-36.00X1.5D
M36-3.0	3521-36.00K	3521-36.00X1.5D
M36-2.0	3523-36.00K	3523-36.00X1.5D
M36-1.5	3524-36.00K	3524-36.00X1.5D
UNC		
2-56	3532-2GK	3532-2GX1.5D
4-40	3532-4GK	3532-4GX1.5D
5-40	3532-4GK	3532-5GX1.5D
6-32	3532-6GK	3532-6/32X1.5D
8-32	3532-8GK	3532-8/32X1.5D
10-24	3532-10GK	3532-10/24X1.5D
12-24	3532-12GK	3532-12GX1.5D
1/4-20	3532-1/4K	3532-1/4X1.5D
5/16-18	3532-5/16K	3532-5/16X1.5D
3/8-16	3532-3/8K	3532-3/8X1.5D
7/16-14	3532-7/16K	3532-7/16X1.5D
1/2-13	3532-1/2K	3532-1/2X1.5D
9/16-12	3532-9/16K	3532-9/16X1.5D
5/8-11	3532-5/8K	3532-5/8X1.5D
3/4-10	3532-3/4K	3532-3/4X1.5D
7/8-9	3532-7/8K	3532-7/8X1.5D
1-8	3532-1K	3532-1X1.5D
1 1/8-7	3532-1.1/8K	3532-1.1/8X1.5D
1 1/4-7	3532-1.1/4K	3532-1.1/4X1.5D
1 3/8-6	3532-1.3/8K	3532-1.3/8X1.5D
1 1/2-6	3532-1.1/2K	3532-1.1/2X1.5D
UNF		
4-48	3534-4GK	3534-4GX1.5D
6-40	3534-6GK	3534-6GX1.5D
8-36	3534-8GK	3534-8GX1.5D
10-32	3534-10GK	3534-10/32X1.5D
1/4-28	3534-1/4K	3534-1/4X1.5D
5/16-24	3534-5/16K	3534-5/16X1.5D
3/8-24	3534-3/8K	3534-3/8X1.5D
7/16-20	3534-7/16K	3534-7/16X1.5D
1/2-20	3534-1/2K	3534-1/2X1.5D
9/16-18	3534-9/16K	3534-9/16X1.5D
5/8-18	3534-5/8K	3534-5/8X1.5D
3/4-16	3534-3/4K	3534-3/4X1.5D
7/8-14	3534-7/8K	3534-7/8X1.5D
1-12	3534-1K	3534-1X1.5D
1-14	3535-1K	3535-1X1.5D
1 1/8-12	3534-1.1/8K	3534-1.1/8X1.5D
1 1/4-12	3534-1.1/4K	3534-1.1/4X1.5D
1 3/8-12	3534-1.3/8K	3534-1.3/8X1.5D
1 1/2-12	3534-1.1/2K	3534-1.1/2X1.5D

Specifications

Inserts are manufactured to all applicable procurement and design specifications:

- NASM 122076 - 122275 - UNC Free-Running Helical Inserts
- NASM 124651 - 124850 - UNF Free-Running Helical Inserts
- NASM 21209 - Unified Screw-Lock Helical Inserts
- MA 3279, 3280, 3281 - Metric Free-Running Helical Inserts
- MA 3329, 3330, 3331 - Metric Screw-Lock Helical Inserts

Inserts are also available in Inconel X-750 (AS7246), Phosphor Bronze (DIN17677 or BS2783 PB102), 316 Stainless Steel (AISI316)

PART NUMBERS		
SIZE	KIT No.	INSERTS
SPARKPLUG		
M10-1.0	3522-10.00K	3522-10.00X1/2
		3522-10.00X.339
M12-1.25	3522-12.00K	3522-12.00X1/2
		3522-12.00X3/4
M14-1.25	3532-14.00K1	3522-14.00X3/8
		3522-14.00X1/2
		3522-14.00X3/4
BSF		
3/16-32	3530-3/16K	3530-3/16X1.5D
1/4-26	3530-1/4K	3530-1/4X1.5D
5/16-22	3530-5/16K	3530-5/16X1.5D
3/8-20	3530-3/8K	3530-3/8X1.5D
7/16-18	3530-7/16K	3530-7/16X1.5D
1/2-16	3530-1/2K	3530-1/2X1.5D
9/16-16	3530-9/16K	3530-3/16X1.5D
5/8-14	3530-5/8K	3530-5/8X1.5D
3/4-12	3530-3/4K	3530-3/4X1.5D
7/8-11	3530-7/8K	3530-7/8X1.5D
1-10	3530-1K	3530-1X1.5D
BSB		
1/8-28	3546-1/8K	3546-1/8X1.5D
1/4-19	3546-1/4K	3546-1/4X1.5D
3/8-19	3546-3/8K	3546-3/8X1.5D
1/2-14	3546-1/2K	3546-1/2X1.5D
5/8-14	3546-5/8K	3546-5/8X1.5D
3/4-14	3546-3/4K	3546-3/4X1.5D
7/8-14	3546-7/8K	3546-7/8X1.5D
1-11	3545-1K	3545-1X1.5D
BSW		
3/16-24	3528-3/16K	3528-3/16X1.5D
1/4-20	3528-1/4K	3528-1/4X1.5D
5/16-18	3528-5/16K	3528-5/16X1.5D
3/8-16	3528-3/8K	3528-3/8X1.5D
7/16-14	3528-7/16K	3528-7/16X1.5D
1/2-12	3528-1/2K	3528-1/2X1.5D
9/16-12	3528-9/16K	3528-9/16X1.5D
5/8-11	3528-5/8K	3528-5/8X1.5D
3/4-10	3528-3/4K	3528-3/4X1.5D
7/8-9	3528-7/8K	3528-7/8X1.5D
1-8	3528-1K	3528-1X1.5D
NPT		
1/8-27	3552-1/8K	3552-1/8X1.5D
1/4-18	3552-1/4K	3552-1/4X1.5D
3/8-18	3552-3/8K	3552-3/8X1.5D
1/2-14	3552-1/2K	3552-1/2X1.5D
3/4-14	3552-3/4K	3552-3/4X1.5D
1-11 1/2	3552-1K	3552-1X1.5D

PART NUMBERS		
SIZE	KIT No.	INSERTS
8- PITCH UN		
1.1/8-8	3570-1.1/8K	3570-1.1/8X1.5D
1.1/4-8	3570-1.1/4K	3570-1.1/4X1.5D
1.3/8-8	3570-1.3/8K	3570-1.3/8X1.5D
1.1/2-8	3570-1.1/2K	3570-1.1/2X1.5D
1.5/8-8	3570-1.5/8K	3570-1.5/8X1.5D
1.3/4-8	3570-1.3/4K	3570-1.3/4X1.5D
1.7/8-8	3570-1.7/8K	3570-1.7/8X1.5D
2-8	3570-2K	3570-2X1.5D

RANGE KITS	
SIZES INCLU DE D	PART No.
UNC 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13	3532-WK1
UNF 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20	3534-WK1
METRIC M5-.8, M6-1, M8-1.25, M10-1.5, M12-1.75	3520-WK1
METRIC M5-.8, M6-1, M8-1.25, M10-1.5, M12-1.75, M14-1.25 SPARKPLUG	3522-WK4

PowerCoil Range

- Inserts are available in five lengths, 1 X Dia to 3 X Dia.

- Inserts available as replacement packs (for many sizes), bulk or stripfeed.

- Inserts available in free-running or screw-lock styles for applications where the thread assembly may be subject to vibration.

- Dry Film Lubricant, Cadmium and Silver Platings available.

Distributed by:



Tooling

Featuring the simple hand installation tool for general maintenance use, in addition to a wide range of semi-automatic and pneumatic installations tools. HSS STI taps available in straight flute, sprial point, sprial flute, and pilot nose styles.