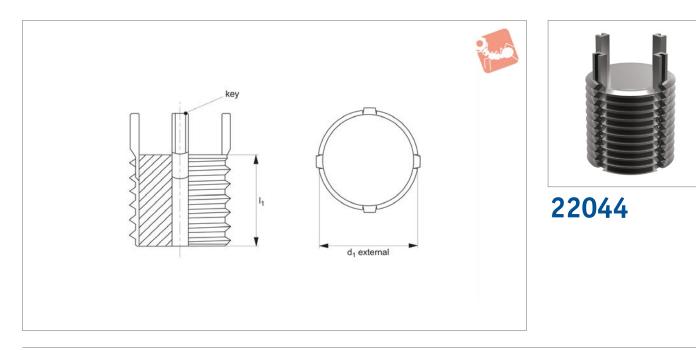


# **Threaded Insert - Solid - Inch**

carbon steel

# Threaded Inserts



### Material

Inserts: carbon steel (C1215) or equivalent. Zinc phosphate. Keys: stainless steel (302 CRES) or equivalent. Passivated.

#### **Technical Notes**

**General tolerances:** ± 0,010" unless specified. **Tap drill hole tolerances:**  0,234 to 0,500 = +0,004/-0,001". 0,500 and over = +0,005/-0,001".

#### Tips

Order installation tool separately, as identified by "Inst. tool ref." in table.

#### **Important Notes**

Four locking keys on external threads 7/16" and over. Two locking keys on

external threads smaller than 7/16". Installation (Inst.) drill size, countersink, thread tap and thread depth as specified in table.

Removal drill size and drill depth as specified in table.

External inch thread allows you to machine your internal thread.

All dimensions in inches.

Order No.	d <sub>1</sub> (mod.) tol. 2A	Thread type d <sub>1</sub>	I <sub>1</sub>	Inst. tool ref. 22050	Inst. tap drill size	Inst. c'sink dia. +0.010 - 0.000	Inst. thread tap tol. 2B	Inst. thread tap depth min.	Removal drill size	Removal drill depth
22044.W0010	5/16"-18	UNC	0,31	.W0010	0,27	0,32	5/16"-18	0,37	7/32"	1/8"
22044.W0020	3/8"-16	UNC	0,31	.W0020	0,33	0,38	3/8"-16	0,37	9/32"	1/8"
22044.W0030	7/16"-14	UNC	0,37	.W0030	0,40	0,44	7/16"-14	0,43	11/32"	3/16"
22044.W0040	1/2"-13	UNC	0,43	.W0040	0,45	0,51	1/2"-13	0,50	13/32"	3/16"
22044.W0050	9/16"-12	UNC	0,50	.W0050	0,52	0,57	9/16"-12	0,56	15/32"	3/16"
22044.W0060	5/8"-11	UNC	0,62	.W0060	0,58	0,63	5/8"-11	0,68	17/32"	3/16"
22044.W0070	3/4"-16	UNF	0,68	.W0070	0,70	0,76	3/4"-16	0,75	21/32"	3/16"
22044.W0080	7/8"-14	UNF	0,87	.W0080	0,83	0,88	7/8"-14	1,00	25/32"	5/16"
22044.W0090	1"-12	UNF	0,87	.W0090	0,94	1,02	1"-12	1,00	27/32"	5/16"
22044.W0100	1-1/8"-12	UNF	1,12	.W0100	1,06	1,14	1-1/8"-12	1,31	31/32"	5/16"
22044.W0110	1-1/4"-12	UNF	1,25	.W0110	1,19	1,27	1-1/4"-12	1,44	1-3/32"	5/16"
22044.W0120	1-3/8"-12	UNF	1,37	.W0120	1,31	1,39	1-3/8"-12	1,56	1-7/32"	5/16"





Threaded inserts are used to quickly repair stripped, damaged or worn out threads with new stronger threads, or are used in original equipment to guarantee stronger thread connections.

Wixroyd inserts are easy to install and remove, without the need for special drills, taps or pre-winder tools. The 'locking keys' on threaded inserts are easily driven down into the thread of the surrounding base material – locking the insert securely in place.







Stainless steel inserts



Solid inserts

Carbon steel inserts

### **Key Features**

- Solid, one-piece construction providing high pull-out strengths.
- Locking "keys" provide a positive mechanical lock against rotation of the insert.
- Easy installation and removal.
- Installation with standard drills and taps.

## **Installation and Removal**

### Installation

1 Select desired threaded insert, and from the product data table identify the installation drill and tap sizes (note the drill is slightly oversized deliberately). Drill with standard tap drill as per product data table, and countersink with standard 82-100° countersink.

• No pre-winder tools required.

account for in the assembly.

No tangs to break off and

For use in a wide variety

Both metric and imperial

sizes available in coarse

of materials.

and fine pitches.

- 2 Tap new threads with standard tap as specified in product data table.
- 3 Screw in the insert until it is 0.25 to 0.75mm (0.010 to 0.030 inch) below the surface.
- Drive locking keys down with several hammer taps on the installation tool – see product data table for correct tool.
- Insert is installed.









3



Wixroyd threaded inserts, can be removed (if required) without damage to the surrounding material.

- Refer to product data tables to identify the drill size and drill depth required for removal. Drill out the material between the insert keys and the internal thread to specified depth.
- Bend the locking keys inward and break off. Remove the old insert using a screw extractor.
- Install a replacement insert into the original tapped hole.







# **Threaded Inserts**

overview

22000 - 22064 **Fixing Elements** 

**Stainless Steel** 

**Carbon Steel** 



22000 - Thinwall - Metric Use installation tool no. 22060.



22002 - Heavy Duty -Metric. Use installation tool no. 22062.



22012 - Heavy Duty -Metric - Inch. Use installation tool no. 22064.



22020, 22022, 22024 - Inch - Thinwall - Heavy Duty -Extra Heavy Duty. Use installation tool no. 22054-58.



22030 - 22034 - Inch - Thinwall - Heavy Duty -Extra Heavy Duty Use installation tool no. 22054, 20058.



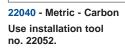
# Solid

**Installation Tools** 

22004 - Thinwall - Metric

Use installation tool

no. 22060.





22006 - Heavy Duty -

Use installation tool

Metric

no. 22062.

22042 - Metric -Stainless Steel Use installation tool no. 22052.



22010 - Heavy Duty -

Use installation tool

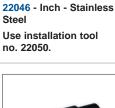
Metric - Inch.

no. 22064.

22044 - Inch - Carbon Use installation tool no. 22050.

22054, 22058 for 22020,

22024, 22030, 22034,





22060 for 22000 & 22004





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22052 for 22040 & 22042

