



HELISOLID[®] Threaded Inserts



PERMANENT THREAD FOR BASE MATERIALS

- MILD STEEL
- ALUMINIUM
- CAST IRON
- PLASTIC
- BRASS
- WOOD
- LIGHT ALLOY

Available in Materials

- STEEL HARDENED
- STAINLESS STEEL
- BRASS

NAV BHARAT ENGINEERS

C-23, Bldg No 3, Shivnath Piramal Nagar, S. V. Road Goregaon (W)
Mumbai 400104, INDIA | Tel: +919820364580 / +91 9082972702 / +91 9833069101
E-mail : sales@ne-india.com / navengg@outlook.in / Net : www.navbharatengineers.com

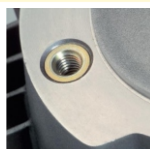


HELISOLID[®] Threaded Inserts

Wood Threaded Inserts

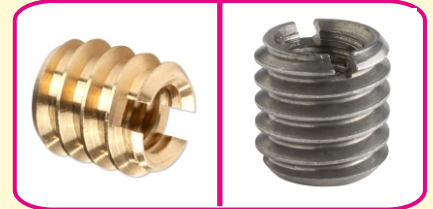
- ❖ Helisolid Wood Threaded Inserts are designed for use in hard woods, like oak, cherry, and maple. Ideal for use wherever assembly or disassembly could lead to thread erosion or stripping, Helisolid Wood Threaded Inserts use a proprietary external thread to slice into wood and provide superior holding power.
- ❖ Typical applications for Helisolid Wood Threaded Inserts include furniture, cabinetry, partitions, and shipping containers. To install the insert, simply drill a hole and thread the insert into place using a screwdriver, bolt/jam nut, or optional drive tool.
 - Superior holding power in hard woods
 - Solid, one-piece threaded insert construction provides a high degree of pull-out strength
 - Provide a positive mechanical lock which prevents rotation due to vibration or torsion
 - Easy threaded insert installation and removal
 - Installed with standard drills and taps
 - No pre-winder tool required
 - No tang to break off
 - Full range of Inch and Metric sizes in coarse or fine pitch threads
 - Industrial Style Threaded inserts can be purchased in bulk quantities or kits
- ❖ For particularly hard wood – or if there is difficulty getting the insert to thread-in straight – a drive tool can be made with full thread engagement for maximum control during installation.
 - Cut the head off a bolt with a thread corresponding to the insert internal thread (round off the cut end for safety).
 - Thread two nuts onto the bolt, followed by the insert (slotted end down).
 - Put the bolt into a hand drill or drill press.
 - Prior to installing, make sure the two nuts are threaded down to the top of the insert.
 - Thread in the insert.
 - Loosen the nuts and back out the driver.

*** Thread repair kit containing 100 Nos. Inserts size M3 to M16 are available**

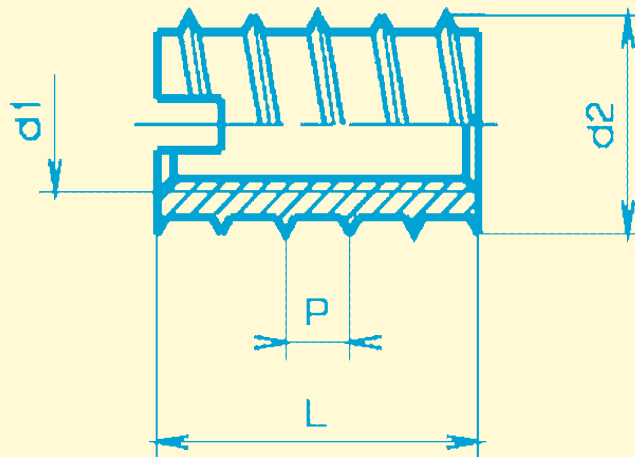




TECHNICAL SHEET



Wood Threaded Inserts



Internal Thread D1 (mm)	External Thread D2 (mm)	Length L (mm)	Approx. Hole Size (for reference only)	Ordering No.
M3	5.5	6	4.2 to 4.4	B030M
M4	7	8	6.2 to 6.4	B040M
M5	9	10	7.2 to 7.4	B050M
M6	10	14	9.2. to 9.4	B060M
M8	13	15	11.2 to 11.4	B080M
M10	16	18	13.2 to 13.4	B100M
M12	19	22	15.2 to 15.4	B120M
M14	22	24	17.2 to 17.4	B140M
M16	24	22	19.2 to 19.4	B160M

- **Material:** Stainless Steel / Steel Hardened / Brass
- **Tolerances:** +/- 0.25mm unless sepecified otherwise
- **BSW, BSF, UNC & UNF Thread Series Available**
- **Steel Hardened Coating:** Zinc Yellow Plated / Backodising
- **Thin & Thick wall thickness inserts also available**
- **We also manufacture Non-Standard inserts as per specifications/drawing**



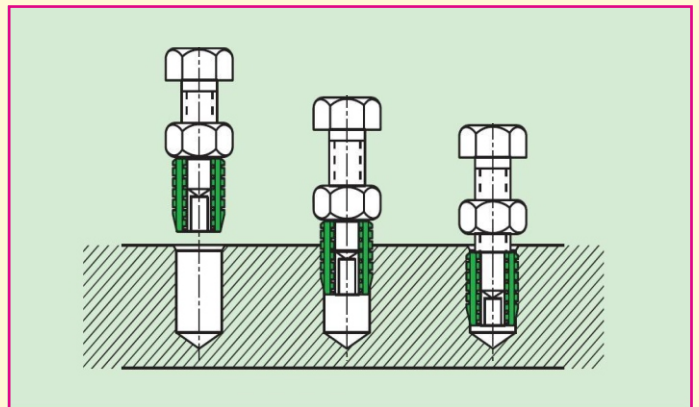
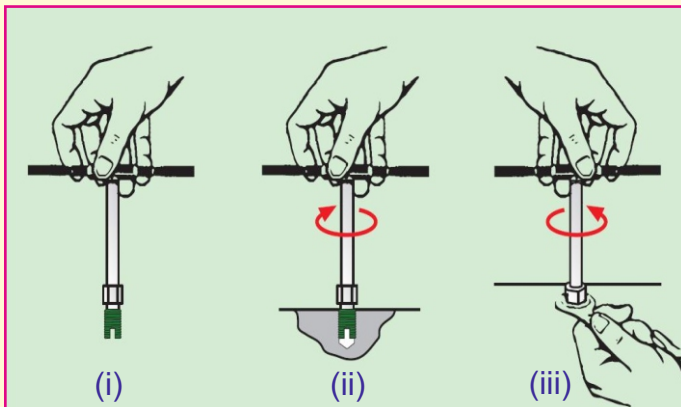


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INSTALLATION

1. From the thread size find the diameter of hole to be drilled in the base material as given in the technical sheet.
2. Hold the insert in the wrench and turn it in the hole as shown in (fig.ii)
3. Hold Hex nut with spanner to break lock. Unscrew the wrench leaving insert installed in base material (fig. iii)
4. In case of smaller size or hard base material 1st tap (out of 3) can be passed before installation of insert.



INSERTION (FITTING) TOOLS

Tool size confirms to internal of insert. Wrench type tools can be used by hand for small sizes and less quantity (Fig. a). In production assembly tools can be used (Fig. b).

