specialinsert®

OUR TRADITION IS TO INNOVATE.



FIT-NUT
Fiber Insert Technology

Thanks to its ongoing pursuit of innovation and its expertise in production cycles, Specialinsert® has created a versatile insert that can be applied to various materials and enables the standardization of the assembly process



FIT-NUT

Double-threaded, closed bush with a countersunk head, made of AISI 316L stainless steel.
Designed for use with fiber-based engineered materials (e.g., carbon fiber, glass fiber, basalt fiber, SMC and BMC, reinforced phenolic laminate, reinforced polyamide, reinforced polyester), composite materials, and light alloys.
Metric external thread with a tapered profile at the end, to facilitate manual insertion into the receiving hole.
Countersunk head to achieve high tightening torques.



APPLICATIONS

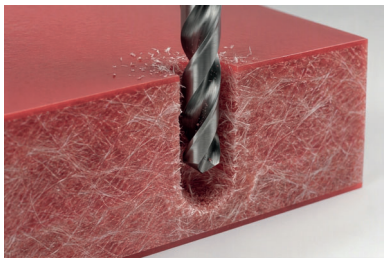
The FIT-NUT can be installed on threaded materials.
In particular, the insert is designed for marine applications and meets the requirements for high corrosion resistance, resistance to high unscrewing torques, and ease of installation.
It is suitable for on-site assembly using hand tools and in other situations where precise and careful alignment is not always possible to ensure.

FIT-NUT is a versatile, universal insert that can be used in a wide range of applications, such as in the marine, rail, automotive, and construction industries

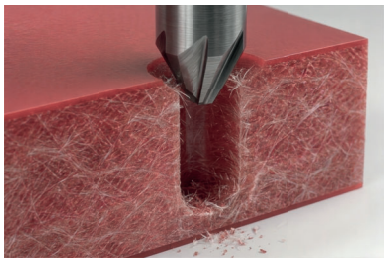


ASSEMBLY PROCESS

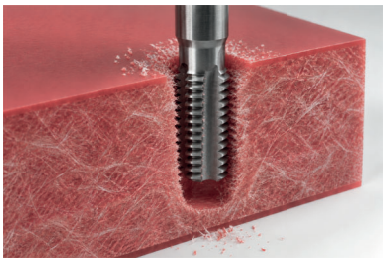
Installing the Fit-Nut involves just a few simple steps and does not require any special tools



Drilling a hole in the panel



Creating a countersink to accommodate the insert head



Thread tapping



Screwing the tool into the insert



Screwing the insert into the panel



Insert fitted flush with the surface

FIT-NUT BENEFITS

- Versatility and the possibility to standardize the assembly process
- Suitable for use with various materials
- Creation of the mounting seat using standard-diameter drill bits and tap sets with standard metric threads
- ENSAT® tools can be used for insertion into the panel
- High tightening torque thanks to the countersunk head
- Made of AISI 316L for high corrosion resistance
- External threaded profile with a tapered lead-in to facilitate insertion
- Blind internal thread for greater corrosion resistance and a cleaner thread



Tool for manual installation ENSAT® 610



Tool for machine installation ENSAT® 620



PRE-APPLIED TREATMENTS: A WINNING CHOICE

The insert can be manufactured with a pre-applied threadlocker coating to the external threads. The pre-applied coating increases resistance to unscrewing torque and eliminates the need for manual application of the threadlocker, resulting in a faster, cleaner, and more repeatable process, ideal for on-site applications.



Specialinsert® was established in 1974.

With three local branches, two warehouses, two production plants in Italy, an R&D office and two testing labs, Specialinsert® supplies cutting edge solutions suited to solving the most diverse fastening problems.

Specialinsert® offers a series of proposals with mechanical fixing solutions suitable for various application sectors such as: sheet metal, tubes, mechanical and plastic components, wood, stone, new composite materials and innovative materials such as solid surface, the latter particularly suitable for applications on furniture or buildings.

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