



WHY INSERTS?

Inserts provide reusable threads and secure tight threaded joints. An additional benefit is high load carrying capability.

UNLIMITED REUSE

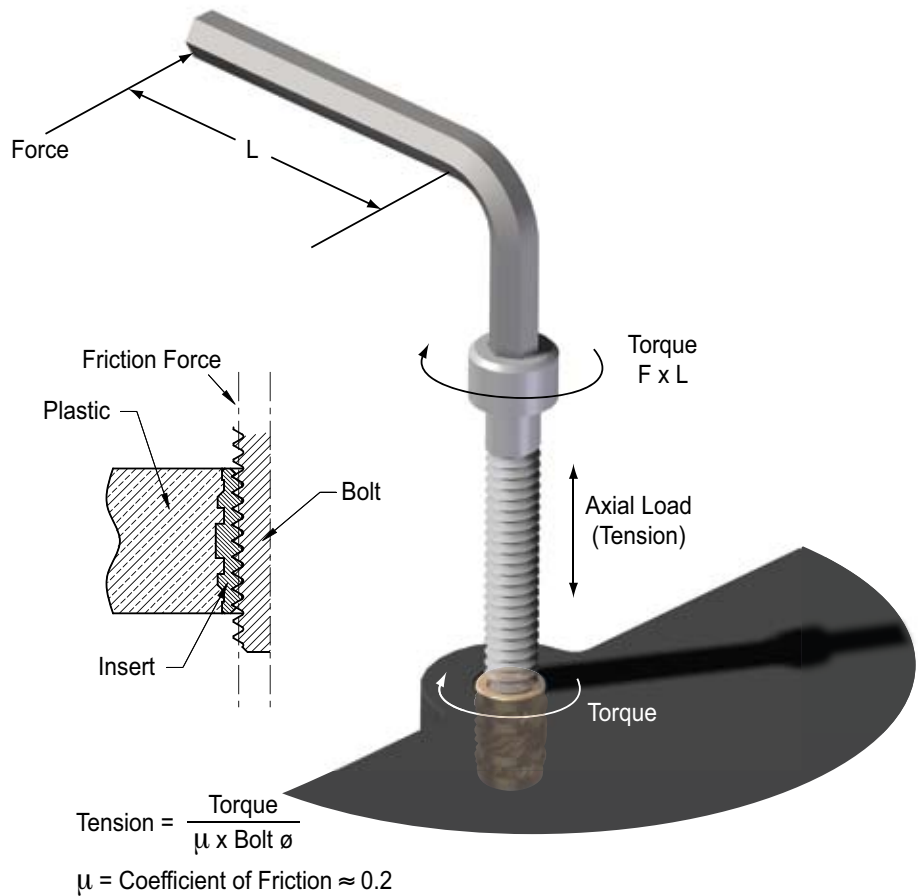
The primary and most obvious benefit of an Insert is the unlimited reusable thread. However, and perhaps even more important, the use of an Insert assures that the threaded joint integrity is preserved for the life of the application.

PROPER SEATING TORQUE

During the assembly process of a mating component, the screw has to be tightened with sufficient torque to introduce the recommended axial tension in order to achieve the required load between the screw and Insert threads to prevent loosening. The larger body diameter and body design of the Insert allow the appropriate installation torque to be applied to the screw.

UNAFFECTED BY STRESS RELAXATION

A common problem with bolted joints in plastic applications is that plastic is susceptible to creep or stress relaxation. Under loads well below the elastic limit, plastics will lose their ability to maintain a load. When this occurs, the threaded connection becomes loose. The brass thread provides permanent creep resistance for the entire load path of the thread.



ENHANCE LOAD CARRYING

The load carrying ability of the joint is enhanced by the larger diameter of the Insert as compared to the screw. Inserts are generally twice the diameter of the screw and that increases the shear surface fourfold. Pull-out resistance can further be enhanced by increased Insert length.

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SPIROL Application Engineers will review your application needs and work with your design team to recommend the best solution. One way to start the process is to visit our **Optimal Application Engineering** portal at www.SPIROL.com.

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