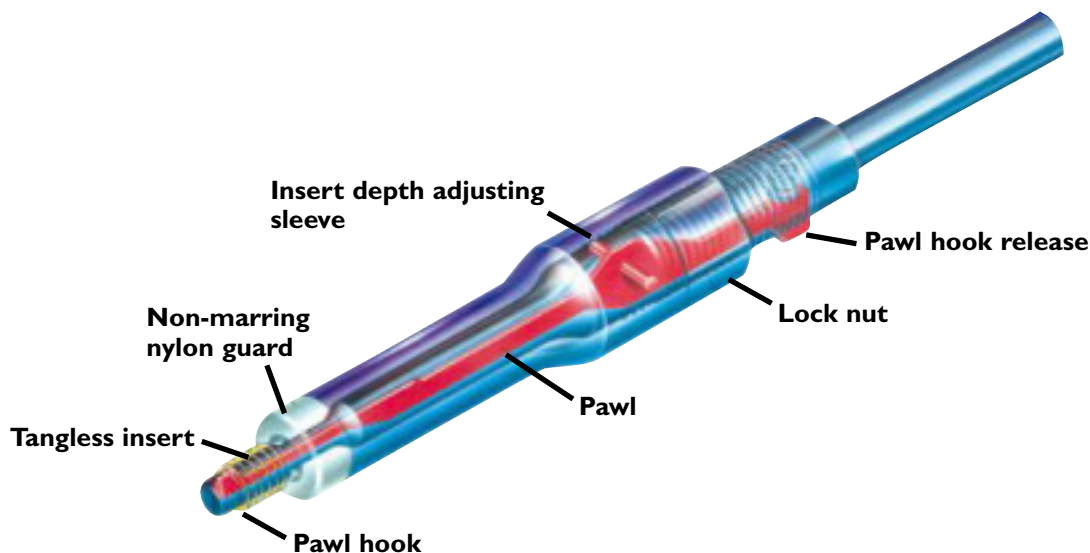


Tangless® CoilThread inserts and tools

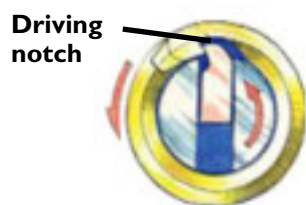


KATOTangless® inserts give you all the benefits, features and performances of conventional tanged inserts. In fact, KATO Tangless® inserts are identical in form, fit and function to conventional tanged inserts. The only things missing from KATO Tangless® inserts are the tangs!

That is why KATO Tangless® CoilThread Inserts stand out from all other helically-coiled inserts. Instead of a tang, tangless inserts feature a unique, ramped driving notch on the inside diameter of the first coil on each end of the insert (see diagram below).

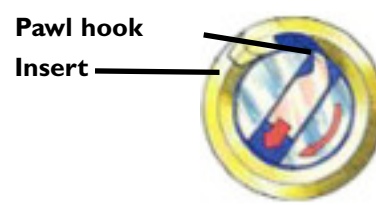
To drive the insert we developed an innovative installation tool with patented, internal, spring-loaded pawl located on the tip of the tool's mandrel. During installation, this hooked pawl locks into the Insert Driving Notch and rotates the insert into the tapped hole. The pawl then retracts into the mandrel to allow the tool to back out of the installed insert.

End view during insert installation



The spring-loaded pawl within the installation tool engages the driving notch to install the insert. The chamfered ends of the insert allow the insert to smoothly enter the tapped hole.

End view of tool leaving installed insert



Once the insert is driven to the proper depth, the installation tool automatically reverses rotation. The pawl slides back into the tool's recess as the mandrel unscrews from the installed insert.

The installation process is simple:

1. Partially thread an insert onto the tool's mandrel.
No need to orient the insert...they're bi-directional!
2. Align the insert with the tapped hole and press the trigger on the electric installation tool.

That's it! The rest is automatic. The insert goes in, the tool comes out, and the job is finished. The insert is prepared for a bolt or screw.