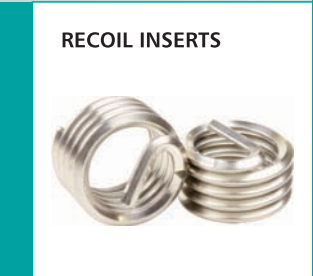




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RECOIL KITS



Recoil kits contain an HSS tap, installation tools, tang break tools, drills, stainless steel inserts, and instructions, in a sturdy reusable container. Recoil problem-solving repair kits are available in single or multiple size format. Sizes available are M2 to M52, UNC 2-56 to UNC 1-1/2", UNF 3-56 to UNF 1-1/2, BA, BSC, BSF, NPT, BSP, BSW, 8 TPI UN & Spark Plug.

RECOIL INSERTS



Recoil helically wound screw-thread inserts are generally manufactured from Type 304 (18-8) stainless steel wire cold rolled into a diamond shaped cross section. Recoil inserts can be supplied in other materials such as Inconel X750, Inconel 625, Nimonic 90, Nitronic 60, Phosphor Bronze and Type 316 stainless steel.

Recoil inserts are available in either standard free running form or screw lock type which provides an internal locking feature. Inserts are manufactured for every thread form including UNC, UNF, BSC, BSW, BSP, BSF, BA, NPT and ISO Metric thread sizes. Inserts are available in 5 different standard lengths. 1D, 1.5D, 2D, 2.5D and 3D. Special lengths are available on request.

RECOIL TAPS



Recoil taps differ from standard taps dimensionally and only Recoil Screw Thread Insert (STI) Taps are suitable for use with Recoil Wire Thread Inserts. Recoil taps are manufactured to precise standards from either High Speed Steel (HSS) with ground threads and are available with taper, intermediate, and bottoming leads. They have a larger diameter but the same pitch as a standard tap in order to accommodate the wire insert. Spiral point and spiral flute machine taps are also available for volume production purposes. For all sparkplug applications, pilot nose taps are recommended and are available for common metric thread sizes. Sizes available are M2 to M52, UNC 2-56 to UNC 1-1/2", UNF 3-56 to UNF 1-1/2, BA, BSC, BSF, NPT, BSP, BSW, 8 TPI UN & Spark Plug.

RECOIL INSERTING TOOL



Recoil tooling system is its simplicity, versatility, and ease of use. The hand installation tooling range includes the manual installation tool, the semi production "Prewinder" type with threaded mandrel. The threaded mandrel type is suitable for the installation of free running and locking inserts. The mandrel is wound into the insert which is then wound into the tapped hole. The mandrel is removed by turning the crank in a counter clockwise direction, leaving the insert in place. Sizes available are M2 to M52, UNC 2-56 to UNC 1-1/2", UNF 3-56 to UNF 1-1/2, BA, BSC, BSF, NPT, BSP, BSW, 8 TPI UN & Spark Plug.

RECOIL TANG BREAKING TOOL



The simple Recoil manual magnetic tang removal tool is suitable for low volume tang removal and is used for insert sizes up to 1/2" or M12. The magnet allows for easy retrieval of the tang.

Spring loaded tang break tools offer effective removal of insert tangs and are suited from medium to large insert usage. Being spring loaded this tool requires no external power source and is suitable for tang removal on insert sizes up to 1/2" or M12. This tool is a spring loaded punch and when the tool is pushed down, the pin punches downward breaking off the tang.

RECOIL EXTRACTING TOOL



Should inserts need to be removed, the use of the Recoil extraction tool is recommended. Extraction tools are simple and easy to use. As correct positioning will make the extraction easier, the tool should be turned 90° from the start of the coil allowing easy winding out of the insert. If the extraction tool is not gripping the insert, the edges can be re sharpened. Sizes available are M2 to M65 and equivalent Inch sizes.

RECOIL PNEUMATIC TOOL



The Recoil range of power tooling ensures consistent high volume thread insert installation for a variety of applications. Recoil Pneumatic Power Tooling works for Wide thread size range #2-56 through 3/4", or M2.5 through M16, coarse and fine Rugged and versatile air motor, May be used with captive strip feed or bulk insert insertion, Standard speed 1500 rpm, Auto reverse on release of trigger The complete pneumatic insert installation tool comprises three components: Air motor with single lever control to install and retract, Adaptor - connect the motor to the insert drive nozzle - small and large types Front end assembly nozzle to suit the particular insert thread size.

RECOIL ELECTRICAL TOOL



The Recoil Electric Power Tool ensures consistent high volume thread insert installation for a variety of applications via a stabilized low voltage power supply to suit your particular requirements

Size range #2-56 through 1/4", M2 through M10, Auto reverse on installation, Clean, lightweight, quiet, Suitable for bulk insert only Easy Adjust Depth Control Collar, Suitable for use with torque control, Hardened Steel Hex Drive Mandrel screwdrivers, alpha-5000 SB7 - 50.

TANGLESS INSERTS



Tangless inserts are identical in form, fit, and function to the conventional tanged inserts. In fact, Tangless inserts are identical to tanged inserts in every way except for their method of installation and removal, and they have the exact same procurement specification (NASM8846 for unified sizes and MA1565 for metric sizes). Some Benefits of Tangless Inserts are:

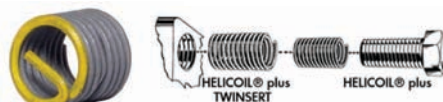
FOD-Free Design: No tangs to break off, retrieve or lose., Approved for use on military programs by NASM8846, NAS1130, and NA0276. Cost Reduction: Significantly decreases installation and inspection time, Bi-Directional design eliminates insert orientation requirements., Quick, non-destructive removal prevents damage to the parent material and the insert.

TANGLESS TOOLS



Tangless installation tool is designed for production users of Tangless inserts. Unlike competitors that utilize plastic body parts, the all-steel construction tool makes them sturdy and dependable. The Tangless tool is designed with precision and durability in mind for manual installation of Tangless inserts. We strongly recommend using Prewinder style hand tools for ALL manual installation of Tangless inserts. The prewinder compresses the insert allowing for easier and more consistent installation. Tangless inserting tools are available up to 3/8" and M12, All-Steel Construction, One Pawl Fits All Tangless Inserting tools, Ergonomically friendly design.

OVERSIZE AND TWININSERTS INSERTS, TOOLS AND KITS



Two methods of Thread Repair Inserts are available for correcting tapping errors to STI* and standard tapped holes. Oversize Inserts and Twininserts allow use of the original bolt size after the repair has been made.

Oversize Inserts are primarily used to correct wire thread insert assemblies that gage oversize due to tapping errors. The effective correction is achieved through a larger wire cross section.

Twininserts offer a greater degree of correction to oversize tapping errors because of the larger diameter that results from installing one insert inside another. This larger diameter allows repair of stripped STI holes as well as off-center STI and standard tapped holes. Holes tapped with the incorrect diameter and/or pitch can also be repaired.

RECOIL GAUGES



Thread gauging is recommended wherever precision threads are required. The quality of the tapped hole which accommodates the insert determines the finished size and hole quality after the insert has been installed. If the finished tapped hole gauges satisfactorily, the installed insert will be within the thread tolerance. Gauges are available in 2B or 6H or 5H and 3B or 5H or 4H5H