



Atlas Engineering

a PennEngineering® company

Bulletin **PG**

Product Guide and Index

Blind Threaded Inserts



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BLIND THREADED INSERTS

Atlas Blind threaded inserts are designed to provide strong threads in thin panel sections. The reason they are called “blind” is because they can be installed from one side of the panel. Access to both sides is not required. That’s why these fasteners are ideally suited for tubing, extrusion, and other similar types of applications.

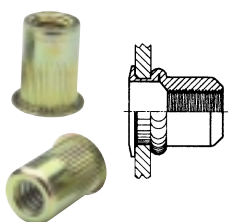
There are three types: SpinTite®, MaxTite®, and PlusTite® fasteners. The SpinTite types are used for most applications where strong threads are required for blind applications. Most commonly known as “blind threaded inserts”, they are installed from one side using a spin/spin technique. The clockwise spinning action of the pneumatic tool draws the fastener in, compressing the unthreaded portion of the fastener wall. The bulge that is created presses against the panel creating a clamping force which tightly grips the sheet. In addition to high thread strength and torque-out, these fasteners have minimal inventory requirements since each size can accommodate many grip ranges.

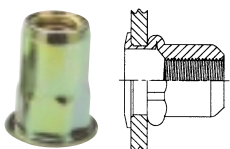
The heavy duty MaxTite types, most commonly known as “blind threaded rivet nuts” are designed for the most demanding applications. They are installed from one side using a “spin/pull” technique. A hydraulic/pneumatic tool is used to draw the fastener in, creating the bulge and clamping force as described above.

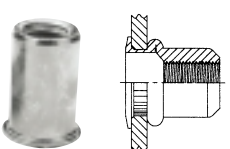
The blind PlusTite inserts feature a pre-bulbed slotted body that folds into four petals upon installation, gripping the backside of the parent material. These inserts can be installed into single, variable, or multiple thickness materials using Atlas Series 800 pneumatic tools or an Atlas Series AE 40 pneumatic/hydraulic tool.


The advantages of blind threaded insert technology include:

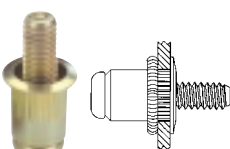
- Fast, easy one-sided installation.
- Strong, permanent threads in thin panels.
- Installs anytime during production, in painted panels, in the field, and repair applications.
- Works in close-to-edge applications.
- Attaches to panels of any hardness.
- Utilizes light, compact, cost-effective installation tooling.

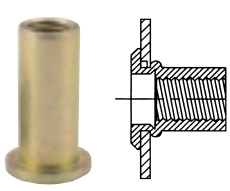
SpinTite® RIB-WALL LOW-PROFILE HEAD (Bulletin AEL/K)		
TYPES		GENERAL INFORMATION
	AELS AEKS	<ul style="list-style-type: none"> • Type AEL features a large diameter, low-profile head and knurled shank. • Type AEK features a minimized-profile head to allow for near-flush installations with no need for special hole preparations. • Type AEL offers highest all around strength.

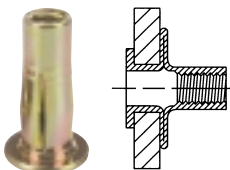
SpinTite® HALF-HEX SHANK LOW-PROFILE HEAD (Bulletin AEH)		
TYPES		GENERAL INFORMATION
	AEHS	<ul style="list-style-type: none"> • Features a hex body design. • High torque-out resistance. • Easy to install using spin/spin tooling.


SpinTite® THIN-WALL LOW-PROFILE HEAD (Bulletin AEO)		
TYPES		GENERAL INFORMATION
	AEOS	<ul style="list-style-type: none"> • Features low-profile head design. • Achieves near-flush installations with no need for countersink drilling or dimpling of the parent material.

SpinTite® 360° SWAGING LOW-PROFILE HEAD (Bulletin AET)		
TYPES		GENERAL INFORMATION
	AETS	<ul style="list-style-type: none"> • Works in any thickness over .029" / 0.76 mm including blind holes. • High torque-out resistance. • Minimal backside protrusion for restricted space applications.

BLIND THREADED STUDS (Bulletin AES)		
TYPES		GENERAL INFORMATION
	AES	<ul style="list-style-type: none"> • Provides strong external threads in blind applications. • Easy to install using spin/spin tooling. • Available with anti-cross threading feature.

MaxTite® THREADED INSERTS (Bulletin AE)		
TYPES		GENERAL INFORMATION
	AE	<ul style="list-style-type: none"> • Designed for high load applications. • Thread sizes 440-1/2" and M3-M12. • Countersunk feature allow fastener to install flush with the sheet surface. • Available with rib or key features for high torque application.

PlusTite® PRE-BULBED BLIND INSERTS (Bulletin PT)		
TYPES		GENERAL INFORMATION
	PB	<ul style="list-style-type: none"> • Superior pullout resistance in plastics and thin sheet metal. • Installs into variable thickness materials. • Threads are compatible with unified grade 5 or metric class 9.8 screws.

INSTALLATION TOOLS (Bulletin AEPT)		
TYPES		GENERAL INFORMATION
	Series 800, AE 40, Hex Wrench, L6000	<ul style="list-style-type: none"> • Lightweight, easy to operate tools for installing the complete line of Atlas SpinTite® and MaxTite® fasteners.

INSTALLATION



STEP 1



STEP 2



STEP 3

- 1) Prepare properly sized hole in the sheet.
- 2) Thread the fastener partially onto the tool mandrel. Insert the fastener completely into the hole, and then press the forward trigger. Hold the trigger until the tool stops spinning and the fastener is fully installed.
- 3) Withdraw the tool by pressing the reverse trigger. This will unthread the mandrel from the fastener.

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