

NUTSERTS



The A-T Series Insert is unique in that it can be installed into most any material above .030/.76 mm in thickness. As the A-T Series is installed, the threaded portion is completely swaged 360° into the sleeve portion and the hole. This permits the A-T Series to be used with Grade 8/metric 12.9 mating screws. The A-T Series Insert is installed using lightweight, hand held pneumatic tools that can be located at any position in your product's assembly sequence. The A-T Series Insert can be installed either prior to or after finish.

360° SWAGING HOW IT WORKS FOR YOU

As the A-T Series Insert is installed, the threaded nut portion is drawn into the upper sleeve portion.



As this occurs, a 360° swaging action takes place anchoring the A-T Series in the parent material.

NUTSERT HOLE SIZE / MATERIAL THICKNESS CHART

Installation hole size for the A-T Series Insert is determined by the parent material's thickness and density. The thicker the material the larger the hole required to allow full 360° installation swaging. The application should be tested before hole size is specified.

THREAD SIZE	.030-.090 MAT. THICKNESS		.091-.124 MAT THICKNESS		.125-.186 MAT. THICKNESS		.187-OVER MAT. THICKNESS	
	DRILL SIZE	DECIMAL	DRILL SIZE	DECIMAL	DRILL SIZE	DECIMAL	DRILL SIZE	DECIMAL
4-40 UNC	3/16	.1875	#10	.1935	#10	.1935	#9	.1960
6-32 UNC	7/32	.2188	#2	.2210	#1	.2280	#1	.2280
8-32 UNC	1/4	.2500	"F"	.2570	17/64	.2656	17/64	.2656
10-24 UNC	9/32	.2812	"L"	.2900	"L"	.2900	19/64	.2969
10-32 UNF	9/32	.2812	"L"	.2900	"L"	.2900	19/64	.2969
1/4-20 UNC	3/8	.3750	3/8	.3750	"V"	.3860	25/64	.3906
1/4-28 UNC	3/8	.3750	3/8	.3750	"V"	.3860	25/64	.3906
5/16-18 UNC	1/2	.5000	1/2	.5000	33/64	.5156	33/64	.5156
5/16-24 UNC	1/2	.5000	1/2	.5000	33/64	.5156	33/64	.5156
3/8-16 UNC	9/16	.5625	9/16	.5625	37/64	.5781	37/64	.5781
1/2-13 UNC	3/4	.7500	49/64	.7656	25/32	.7810	51/64	.7970



Thread Size	Thread Call Out	HD ±.005	L ±.015	D MAX.	IL MAX.	LB ±.015	ILB MAX.	IATD** MAX.	Hole Depth Min.	Part No.	Price Each
4-40 UNC	440	.211	.370	.1875	.205	.660	.495	.395	.400	ATS2-440	---
6-32 UNC	632	.240	.370	.2185	.205	.675	.505	.410	.400	ATS2-632	---
8-32 UNC	832	.269	.370	.2495	.205	.675	.505	.410	.400	ATS2-832	---
10-24 UNC	1024	.306	.370	.2805	.205	.685	.520	.385	.400	ATS2-1024	---
10-32 UNF	1032	.306	.370	.2805	.205	.685	.520	.385	.400	ATS2-1032	---
1/4-20 UNC	420	.400	.515	.3745	.275	1.005	.760	.615	.540	ATS2-420	---
1/4-28 UNC	420	.400	.515	.3745	.275	1.005	.760	.615	.540	ATS2-428	---
5/16-18 UNC	518	.528	.615	.4995	.325	1.065	.770	.630	.640	ATS2-518	---
5/16-24 UNC	518	.528	.615	.4995	.325	1.065	.770	.630	.640	ATS2-524	---
3/8-16 UNC	616	.588	.745	.5615	.390	1.450	1.095	.890	.770	ATS2-616	---
1/2-13 UNC	813	.800	.935	.7485	.485	NA	NA	NA	.960	ATS2-813	---

**Dimensions in minimum grip condition. Additional UNF thread sizes available.

AA-112 HI-TORQUE NUTSERT TOOL



The hi-torquer tool is ideal for field and maintenance applications. It features a patented Quick Change thread size nose assembly.

Order one base tool plus appropriate conversion kit. No warranty on these tools.

Thread Size	Conv. Kit Part No.	Price Each
4-40 UNC	AAT-202-440	---
6-32 UNC	AAT-202-632	---
8-32 UNC	AAT-202-832	---
10-24 UNC	AAT-202-1024	---
10-32 UNF	AAT-202-1032	---
1/4-20 UNC	AAT-202-420	---
1/4-28 UNC	AAT-202-428	---
5/16-18 UNC	AAT-202-518	---
5/16-24 UNC	AAT-202-524	---
3/8-16 UNC	AAT-202-616	---
Base tool, P/N AA-112.....---		

AAT916 EXPENDABLE NUTSERT TOOLS



These expendable tools are ideal for applications such as field repair. They

can also be packaged with instructions for use along with quantity of inserts for consumer assembly. Sizes 6-32, 8-32 include a hex key. Sizes 10-32, and larger require a wrench (not included). No warranty on these tools.

THREAD SIZE	TOOL PART NUMBER	Price Each
4-40 UNC	AAT-916-440	---
6-32 UNC	AAT-916-632	---
8-32 UNC	AAT-916-832	---
10-24 UNC	AAT-916-1024	---
10-32 UNF	AAT-916-1032	---
1/4-20 UNC	AAT-916-420	---
1/4-28 UNC	AAT-916-428	---
5/16-18 UNC	AAT-916-518	---
5/16-24 UNC	AAT-916-524	---
1/2-13 UNC	AAT-916-813	---
3/8-16 UNC	AAT-916-616	---

AAT312A MASTER NUTSERT ASSORTMENT KIT



The A-T Series master assortment kit is ideal for prototype and maintenance repair applications. The rugged hard shell plastic kit contains quantities of the A-T Series Inserts and the AA 112 Hi-torquer tool. It also contains a full compliment of thread size conversion kits and instruction label.

No warranty on these tools.

KIT CONTAINS:

Thread Size	Qty.	Nutsert Part No.	Conv. Kit
4-40 UNC	50	ATS2-440	AAT-202-440
6-32 UNC	50	ATS2-632	AAT-202-632
8-32 UNC	50	ATS2-832	AAT-202-832
10-32 UNF	50	ATS2-1032	AAT-202-1032
1/4-20 UNC	50	ATS2-420	AAT-202-420
5/16-18 UNC	50	ATS2-518	AAT-202-518
Kit, P/N AAT312A.....---			

Nutsert available. Sold Each.