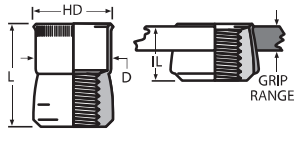
UNIFIED (INCH) AND METRIC THREAD SIZES

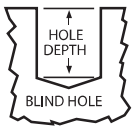
A-T SERIES™

INSERT

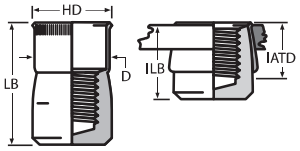
KNURLED THREADED INSERTS

OPEN END TYPE





CLOSED END TYPE



THREAD SIZE	THREAD CALL OUT	HD ±.005	L ±.015	D MAX.	IL REF.	LB ±.015	ILB REF.	IATD MAX.	HOLE DEPTH MIN.
4-40 UNC	440	.211	.370	.1875	.205	.660	.495	.395	.400
6-32 UNC	632	.240	.370	.2185	.205	.675	.505	.410	.400
8-32 UNC	832	.269	.370	.2495	.205	.675	.505	.410	.400
10-24 UNC	1024	.306	.370	.2805	.205	.685	.520	.385	.400
10-32 UNF	1032	.306	.370	.2805	.205	.685	.520	.385	.400
1/4-20 UNC	420	.400	.515	.3745	.275	1.005	.760	.615	.540
5/16-18 UNC	518	.528	.615	.4995	.325	1.065	.770	.630	.640
3/8-16 UNC	616	.588	.745	.5615	.390	1.450	1.095	.890	.770
1/2-13 UNC	813	.800	.935	.7485	.485	NA	NA	NA	.960

THREAD SIZE	THREAD CALL OUT	HD ±0,13	L ±0,38	D MAX.	IL REF.	LB ±0,38	ILB REF.	IATD MAX.	HOLE DEPTH MIN.
M3 x 0,5 ISO	350	5,36	9,40	4,76	5,21	16,77	12,57	10,03	10,16
M4 x 0,7 ISO	470	6,83	9,40	6,34	5,21	17,15	12,83	10,41	10,16
M5 x 0,8 ISO	580	7,77	9,40	7,12	5,21	17,40	13,21	9,78	10,16
M6 x 1,0 ISO	610	10,16	13,08	9,51	6,99	25,53	19,30	15,62	13,72
M8 x 1,25 ISO	8125	13,41	15,62	12,69	8,26	27,05	19,56	16,00	16,26
M10 x 1,5 ISO	1015	14,94	18,92	14,26	9,91	36,83	27,81	22,61	19,56
M12 x 1,75 ISO	12175	20,32	23,75	19,01	12,32	NA	NA	NA	24,38

HOLE SIZE / MATERIAL THICKNESS CHART

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	"W"	.3860	25/64	.3906
5/16-18 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	0,76 - 2,29 MAT. THICKNESS		2,31 - 3,15 MAT. THICKNESS		3,17 - 4,72 MAT. THICKNESS		4,72 - OVER MAT. THICKNESS	
	DRILL SIZE	DECIMAL	DRILL SIZE	DECIMAL	DRILL SIZE	DECIMAL	DRILL SIZE	DECIMAL
M3 x 0,5 ISO	4,75	.1875	4,90	.1935	4,90	.1935	4,97	.1960
M4 x 0,7 ISO	6,35	.2500	6,52	.2570	6,74	.2656	6,74	.2656
M5 x 0,8 ISO	7,14	.2812	7,36	.2900	7,36	.2900	7,54	.2969
M6 x 1,0 ISO	9,52	.3750	9,52	.3750	9,80	.3860	9,92	.3906
M8 x 1,25 ISO	12,70	.5000	12,70	.5000	13,09	.5156	13,09	.5156
M10 x 1,5 ISO	14,28	.5625	14,28	.5625	14,68	.5781	14,68	.5781
M12 x 1,75 ISO	19,05	.7500	19,44	.7656	19,83	.7810	20,24	.7970

FINISH:The standard specified finish for the A-T Series Insert is tin. Alteration to this finish will reduce performance.*THREAD CLASS:The A-T Series Insert's internal threads are manufactured oversized to compensate for resulting thread portion shrinkage during the installation swaging process. They are not gaugeable prior to or after installation but will be compatible with Class 2A/3A or 6g screws after installation.

NOTE: Hole sizes: The application should be tested before hole size is specified.

PART NUMBERING SYSTEM

SAMPLE NUMBER: ATS5-610

AT	( )	( )	( )	-( )
PRODUCT SERIES	TYPE	MATERIAL	FINISH RoHS COMPLIANT	THREAD CALL OUT

CALL OUT	TYPE
BLANK	Open End
502	Closed End

CALL OUT	GRADE
S	Steel , Low Carbon
A	Aluminum 6061-T6
B	Brass 360 or 464
C	CRES 304

CALL OUT	SPECIFICATION
2	CAD PLATE PER AMS-QQ-P-416, TY I CLASS 3
3R	PLAIN ZINC PER ASTM-B-633, FE/ZN .0003 (8µ)
5	DULL TIN PER MIL-T-10727 TY I .0003
9T	TIN ZINC TRIVALENT PER ESP-P-008, .0003 (8µ)
Note: For Additional Plating See Chart on Page 47	

See installation tool selection on page 31 - 43.

MATERIAL TYPE IDENTIFICATION GROOVES

All materials for the A-T Series when plated look similar. Radial grooves are machined into the part for material identification.