

	TABLE I								
		Α	B <3>		øC	D	E	F	G
	BASIC PART	INT THD	EXT THD	MAX	}	}			
	NUMBER <7>	CLASS-3B <3> <6>	CLASS-3A	MINOR DIA SPECIAL					
	(//	(2) (6)			+.008 002	+.015 000	REF	REF	±.010
	SRW086L						.073		.170
	SRW086	.0860-56UNC	.1640-32UNC	.1380	.116	.042		.080	.130
ļ jų	SRW110L					.060	.092		
MINIATURE	SRW110	.1120-40UNC	.1900-32UNF	.1620	.142			.100	.190
I ≦	SRW142L						.113		
\frac{1}{2}	SRW142	.1380-32UNC	.2160-28UNF	.1758	.142	.080		.120	.210
_	SRW162L						.138		
Ì	SRW162	.1640-32UNC	.2500-28UNF	.2098	.169	.080		.150	.250
	SRW192L				 		.157		
}	SRW192	.1900-32UNF	.2812-28NS	.2410	.214	.080		.180	.290
}	SRW194L						.157		
1	SRW194	.1900-24UNC	.2812-28NS	.2410	.214	.080		.180	.290
1	SRW258L						.210		
ļ	SRW258	.2500-28UNF	.3438-24NS	.2976	.264	.095		.240	.380
	SRW250L	<u> </u>	,				.210		
İ	SRW250	.2500-20UNC	.3438-24NS	.2976	.264	.095		.240	.380
1	SRW314L						.266		
STRUCTURAL	SRW314	.3125-24UNF	.4219-20NS	.3651	.336	.110		.310	.470
	SRW318L		**************************************		 		.266		
	SRW318	.3125-18UNC	.4219-20NS	.3651	.336	.110		.310	.470
	SRW374L	.3750-24UNF			.393 .110	1	.322		
	SRW374		.4844-20NS	.4276			.370	.560	
	SRW376L		.3750-16UNC .4844-20NS .42				.322		.560
]	SRW376	.3750-16UNC		.4276	.393	.110		.370	
ł	SRW430L	.4375-20UNF					.377		
	SRW430		.5625-18UNF	.4993	. 4 66	.135		.430	.660
}	SRW434L		.5625-18UNF .4993	.4993 .466			.377		
}	SRW434	.4375-14UNC			.135		.430	.660	
1	SRW500L					· · · · · · · · · · · · · · · · · · ·	.439		
	SRW500	.5000-20UNF	.6250-18UNF	.5618	.528	.135		.490	.750
	SRW503L						.439		
	SRW503	.5000-13UNC	.6250-18UNF	.5618	.528	.135		.490	.750
	SRW568L					<u> </u>	.481		0.17
	SRW568	.5625-18UNF	.7500-16UNF	.6860	.647	.145		.550	.843
}	SRW562L						.481		247
1	SRW562	.5625-12UNC	.7500-16UNF	.6860	.647	.145		.550	.843
LARGE	SRW628L						.534		^7~
	SRW628	.6250-18UNF	.8125-20UNJEF	.7547	.714	.145		.620	.937
	SRW621L						.534		677
-	SRW621	.6250-11UNC	.8125-20UNJEF	.7547	.714	.145		.620	.937
1	SRW756L	7500 401015		0707	670	470	.648		1
	SRW756	.7500-16UNF	.9375-20UNJEF	.8797	.838	.170		.750	1.125
	SRW750L	7500 401110	0375 0011155	0707	070	470	.648		1.125
L	SRW750	.7500-10UNC	.9375-20UNJEF	.8797	.838	.170		.750	1.123
	INTERIM De Rev. Date	DCUMENT REVISION DAF#							
	\sim	2018 117431	1						
	10/8/	11/431	ا						

APPROVED DATE 3/12/62 REV. LETTER AND DATE

DAF NUMBER

109420

CURRENT DESIGN ACTIVITY: **ARCONIC**

Arconic Fastening Systems

Rosan Products 3018 W. Lomita Blvd. Torrance, California 90505–5103

SLIMSERT INSERT, HIGH STRENGTH, OVERSIZE

TITLE:

CURRENT DESIGN ACTIVITY: CAGE CODE: 83324 SALES DRAWING NO.

SHEET 2 OF 5

SRW () SERIES = ±3° .XX = ±.02 .XXX = ±.010 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES & ASME Y14.5M TOLERANCES: ANGLES DECIMALS

— Camloc . Delron . Deutsch . Huck . K-Fast . Kaynar . Microdot . RAM . Rosan . Screwcorp . Tridair . Voi-Shan

DAGIO	Н	øJ	К	L	М			TO	OLING		
BASIC PART NUMBER	THREAD CLASS-3B	TAP DRILL <11>				STEP DRILL	TAP	DRIVE WRENCH	SWAGE TOOL	REMOVAL TOOL	REMOVAL DRILL
<7>	<10> <11>	+.004 001	+.004 001	<e></e>	MIN	<14>				<e></e>	<e></e>
SRW086L	1640_32UNC	140 (#28)	164	.050	160	SRW08D	COMPAT	SR08WA	CDWOCA	CDWOOD	156 /5 /30
SRW086	.1640-32UNC	.140 (#28)	.164	.045	.160	2K MOOD	SRW08T	SR08W4A	SRW08SA	SRW08R	.156 (5/32)
SRW110L	.1900-32UNF	.166 (#19)	.187	.065	.220	SRW11D	SRW11T	SR11WA	SRW11SA	SRW11R	.173 (#17)
SRW110								SR11W4A			
SRW142L	.2160-28UNF	.182 (#14)	.216	.065	.240	SRW14D	SRW14T	SR14WA	SR14SA	SRW14R	.205 (#5)
SRW142 SRW162L	 			<u> </u>		<u> </u>		SR14W4A			
SRW162L	.2500-28UNF	.218 (7/32)	.250	.065	.280	SRW16D	SRW16T	SR16WA SR16W4A	SR16SA	SRW16R	.234 (15/64
SRW192L					 	ļ		SR19WA			ļ
SRW192L	1							SR19W4A		8	
SRW194L	.2812-28NS	.242 (C)	.281	.082	.325	SRW19D	SRW19T	SR19WA	SRW19SA	SRW19R	.266 (17/64
SRW194	1							SR19W4A			
SRW258L					 	 		SR25WA		<u> </u>	
SRW258	1				l			SR25W4A		l	
SRW250L	.3438-24NS	.302 (N)	.343	.082	.415	SRW25D	SRW25T	SR25WA	SRW25SA	SRW25R	.328 (21/6
SRW250	1				l			SR25W4A		}	}
SRW314L					 			SR31WA			
SRW314	}							SR31W4A	:	ł	
SRW318L	.4219-20NS	.368 (U)	.422	.082	.505	SRW31D	SRW31T	SR31WA	SRW31SA	SRW31R	.406 (13/3
SRW318	1				1			SR31W4A			
SRW374L								SR37WA			
SRW374					}			SR37W4A			
SRW376L	.4844-20NS	.437 (7/16)	.484	.113	.595	SRW37D	SRW37T	SR37WA	SRW37SA	SRW37R	.469 (15/3
SRW376	1				ļ			SR37W4A			[
SRW430L	 							SR43WA			
SRW430	1				ĺ	[SR43W4A			
SRW434L	.562518UNF	.515 (33/64)	.562	.113	.695	SRW43D	SRW43T	SR43WA	SRW43SA	SRW43R	.546 (35/6
SRW434	1				ļ			SR43W4A			
SRW500L	<u> </u>							SR50WA			
SRW500	1				<u>,</u>			SR50W4A			
SRW503L	.6250-18UNF	.578 (37/64)	.625	.113	.785	SRW50D	SRW50T	SR50WA	SRW50SA	SRW50R	.609 (39/6
SRW503	1 1				<u> </u>			SR50W4A			
SRW568L					·			SR56WA			
SRW568	1				İ			SR56W4A		Ì	}
SRW562L	.7500-16UNF	.703 (45/64)	.750	.150	.878	SRW56D	SRW56T	SR56WA	SRW56SA	SRW56R	.734 (47/6
SRW562	j					}		SR56W4A		1	[
SRW628L								SR62WA			
SRW628					1			SR62W4A		SRW628R	
SRW621L	.8125-20UNJEF	.766 (49/64)	.812	.156	.972	SRW62D	SRW62T	SR62WA	SRW62SA		.797 (51/6
SRW621	1 1			ł	ł	ł		SR62W4A		SRW621R	
SRW756L				 	 	ļ ———		SR75WA		 	
SRW756	1				1.			SR75W4A		SRW756R	
	.9375-20UNJEF	.891 (57/64)	.938	.156	1.160	SRW75D	SRW75T		SRW75SA		.922 (59/6
SRW750L	j l		ŀ	J	j		j	SR75WA	1	SRW750R	1

INTERIM DOCUMENT REVISION							
Rev.	Date	DAF#					
PI	10/8/2018	117431					

APPROVED DATE 3/12/62 REV. LETTER AND DATE 9/17/14 DAF NUMBER

CURRENT DESIGN ACTIVITY: **ARCONIC**

Arconic Fastening Systems

CURRENT DESIGN ACTIVITY:

CAGE CODE:

SLIMSERT INSERT, HIGH STRENGTH, OVERSIZE

SRW () SERIES

SALES DRAWING NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES & ASME Y14.5M TOLERANCES:

TITLE:

= ±3° .XX = ±.02 .XXX = ±.010 ANGLES DECIMALS

SHEET 3 OF 5

83324

109420

Rosan Products 3018 W. Lomita Blvd. Torrance, California 90505–5103

TABLE II

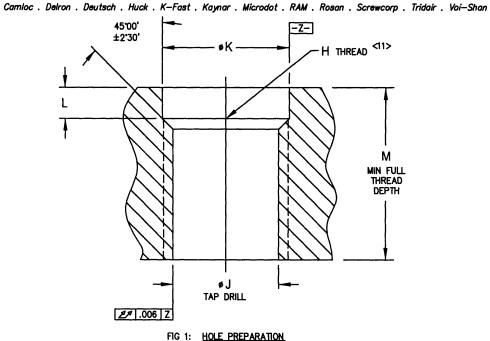
CODE	MATERIAL	MAGNETIC	HEAT TREAT	FINISH	TEMPERATURE RANGE
N/A	17-4PH	YES	HRc 35-42	PASSIVATE PER AMS2700 PLUS SOLID FILM LUBE PER AS5272, TYPE I	-110°/+650F
0001 <8>	(AMS5643)	163	HRC 33-42	PASSIVATE PER AMS2700	-110°/+900°F
0021 <8>				PASSIVATE PER AMS2700	-400°/+1200°F
0024	A286 <9> (AMS5731 OR AMS5734)	NO	HRc 32-40	PASSIVATE PER AMS2700 PLUS SILVER PLATE PER AMS2411, .0002 MIN THK	-400'/+1200F
0025				PASSIVATE PER AMS2700 PLUS SOLID FILM LUBE PER AS5272, TYPE I	-400'/+650F
0036	4130 (AMS6370) OR 8740 (AMS6322)	YES	HRc 25-34	CAD PLATE PER AMS-QQ-P-416, TY III, CL 3 PLUS SOLID FILM LUBE PER AS5272, TYPE I	UP TO +450F

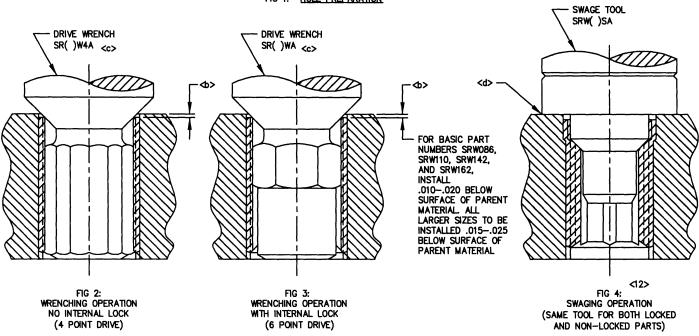
NOTES:

- INTERNAL THREAD LOCKING FEATURE MEETS REQUIREMENT OF MIL-I-45932, LOCATED IN CENTER OF <1> INTERNAL THREAD LENGTH APPROXIMATELY, EXCEPT FOR SIZES SRW086L AND SRW086L(), SEE DETAIL "W" SHEET 1.
- "E" AND "F" DIMENSIONS APPLY THIS END ONLY. <2>
- THREADS PER FED-STD-H28/2 AND AS NOTED PRIOR TO THE ADDITION OF SOLID FILM LUBRICANT AND AFTER PLATING WHERE APPLICABLE. EXTERNAL THREAD IS SPECIAL FORM-BASIC UNIFIED WITH INCREASED MINOR DIAMETER PER TABLE I. MAJOR DIAMETER AND PITCH DIAMETER PER -3A TOLERANCES. INTERNAL THREAD MINOR DIAMETER WILL ACCEPT SCREWS AND BOLTS WITH AS8879 THREADS. <3>
- BURRS PERMISSIBLE IN SERRATION AREA. <4>
- <5> THREAD MARKS PERMISSIBLE.
- <6> UNIFIED NATIONAL COARSE (UNC) THREADS HAVE A MODIFIED MINOR DIAMETER.
- <7> FOR PART NUMBER CODING, SEE SHEET 1.
- <8> FINISH CODES, "0001" AND "0021" ONLY AVAILABLE WITHOUT INTERNAL THREAD LOCKING FEATURE.
- MAGNETIC PERMEABILITY FOR PARTS FABRICATED FROM A286 MATERIAL SHALL BE LESS <9> THAN 2.000 (AIR 1.000) H = 200 OERSTEDS.
- <10> STANDARD TAPS, IN SIZES INDICATED, ARE USED TO TAP ALL HOLES.
- THREAD IS MODIFIED BY OVERSIZE TAP DRILL. <11>
- <12> SWAGE OPERATION REQUIRED TO ACHIEVE POSITIVE EXTERNAL LOCK.
- 13. FOR PROPER INSTALLATION, USAGE OF ROSAN DRIVE TOOL AND SWAGE TOOL IS MANDATORY.
- STEP DRILLS ARE DESIGNED FOR THRU HOLE DRILLING. WHEN USED TO DRILL A BLIND HOLE, IT MAY BE NECESSARY TO GRIND THE DRILL TO SUIT DEPTH REQUIRED. <14>
- 15. DIMENSIONS APPLY AFTER PLATING AND BEFORE THE ADDITION OF SOLID FILM LUBRICANT.

INT	NT REVISION			
Rev.	Date	DAF#		
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APPROVED DATE	CURRENT DESIGN ACTIVITY:	TITLE:	CURRENT DESIGN ACTIVITY:			
3/12/62	ARCONIC	SLIMSERT INSERT.	CAGE CODE: 83324			
REV. LETTER AND DATE	ARCONIC	HIGH STRENGTH, OVERSIZE	SALES DRAWNG NO.			
P 3/17/14-1Y	Arconic Fastening Systems		SRW () SERIES			
DAF NUMBER	Rosan Products	UNLESS OTHERWISE SPECIFIED ANGLES	= ±3°			
109420	3018 W. Lomita Blvd. Torrance, California 90505-5103		$C = \pm .02$ $C = \pm .010$ SHEET 4 OF 5			





INSTALLATION PROCEDURE:

- THESE INSERTS ARE PRIMARILY FOR INSTALLATION INTO ALUMINUM AND MAGNESIUM, NOT EXCEEDING A HARDNESS OF BRINELL 187 (3000 Kg LOAD AND 10 mm BALL). FOR USE IN OTHER MATERIALS, CONSULT ALCOA ENGINEERING DEPARTMENT.
- THE SLIMSERT IS WRENCHED INTO THE PARENT MATERIAL TO DEPTH SHOWN IN FIG 3 WITH WRENCH PER TABLE I.
- USE DRIVE WRENCH AS INDICATED. OTHERWISE, ALL HOLE PREPARATIONS, OPERATIONS AND TOOLS ARE THE SAME FOR BOTH LOCKED AND NON-LOCKED PARTS.
- <d> THE SLIMSERT IS INSTALLED WHEN THE SHOULDER OF THE SWAGE TOOL BOTTOMS ON THE SURFACE OF THE PARENT MATERIAL.
- <e> METHOD OF REMOVAL: USING REMOVAL TOOL SRW()R, C'BORE TO DEPTH "L" DIMENSION. BACK OUT INSERT WITH DRIVE WRENCH, CLEAN OUT HOLE AND INSTALL NEW INSERT.

ALTERNATE METHOD:
USE REMOVAL DRILL SIZE INDICATED IN TABLE I. DRILL TO "L" DIMENSION PLUS .025.
REMOVE REMAINING PORTION OF KNURL AND FOLLOW PROCEDURE AS STATED ABOVE.

	INT	NT REVISION	
i	Rev.	Date	DAF#
	PI	10/8/2018	117431

CURRENT DESIGN ACTIVITY CURRENT DESIGN ACTIVITY APPROVED DATE CAGE CODE: 83324 3/12/62 **ARCONIC** SLIMSERT INSERT, SALES DRAWING NO. REV. LETTER AND DATE HIGH STRENGTH, OVERSIZE Arconic Fastening Systems SRW () SERIES Rosan Products 3018 W. Lomita Blvd. Torrance, California 90505–5103 DAF NUMBER UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES & ASME Y14.5M TOLERANCES: ANGLES DECIMALS $xx = \pm .02$ -109420· SHEET 5 OF