



SSZ

Screw Zert

“Screw Zert” is a self tapping insert that can be installed into thermoplastic, thermosetting plastics, and composite materials. They work well into materials with low core strengths. Headed and stud variations are available.

Performance values are on page 35.

Plastic Materials

PPS	DMC	Thermosetting Polyester	Ureas
PBT	BMC	Epoxy Resins	Tufnol
PP	ABS	PC / ABS Blends	Ployurethane (rigid)
PE	PVC	PA-Unfilled	Vinyl Esther
HDPE	MDF	POM (Acetal)	
SMC	PA-Filled	Phenolic	

Installation

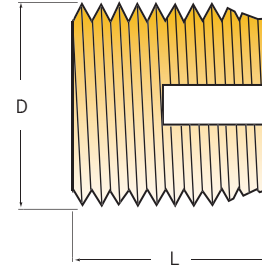
Hand Tools	Fully Automated
Tapping Machine	

Materials

Stainless Steel	Aluminum (Special Order)
Brass	

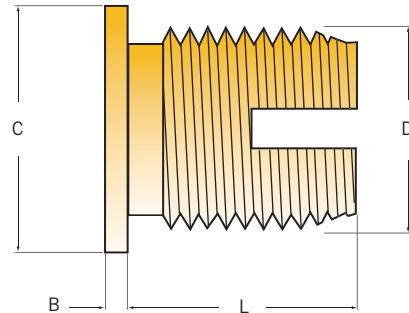
Insert

SSZ



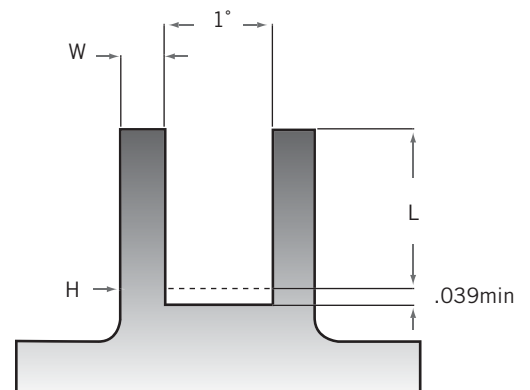
Headed Insert

SSZH



Boss Design Reference

“Screw Zert” is designed to be installed into a straight hole with a maximum of a 1° inclusive taper. A 60° counter sink with a depth equal to the external thread pitch in the top of the hole helps during installation and prevents chipping of the top surface. The recommended hole size is best determined by pre-production trials. A guide to a recommended hole size is listed on the opposite page. Installation of the insert is based on standard tapping principals with the slot in the insert acting as a cutting edge. Available In Brass and Stainless Steel. (other materials may be available on request)



Screw Zert

Size Chart

Inch	Thread	L Insert Length	D Insert Dia.	B Head Thickness	C Head Dia.	H Hole Size (+.004 -.000) Thermo Plastics	H Hole Size (+.004 -.000) Thermosets	SSZ Part Number	SSZH Part Number
	2 - 56	.236	.177	.023	.236	.157 - .161	.161 - .169	SSZ - 256 - 236	SSZH - 256 - 236
	4 - 40	.236	.197	.023	.236	.177 - .181	.181 - .189	SSZ - 440 - 236	SSZH - 440 - 236
6 - 32	.315	.236	.029	.295	.209 - .213	.217 - .224	SSZ - 632 - 315	SSZH - 632 - 315	
8 - 32	.315	.256	.035	.315	.228 - .232	.236 - .244	SSZ - 832 - 315	SSZH - 832 - 315	
10 - 24	.394	.315	.042	.374	.280 - .283	.287 - .299	SSZ - 1024 - 394	SSZH - 1024 - 394	
10 - 32	.394	.315	.042	.374	.280 - .283	.287 - .299	SSZ - 1032 - 394	SSZH - 1032 - 394	
1/4 - 20	.551	.394	.052	.472	.339 - .346	.354 - .370	SSZ - 2520 - 551	SSZH - 2520 - 551	
1/4 - 28	.551	.394	.052	.472	.339 - .346	.354 - .370	SSZ - 2528 - 551	SSZH - 2528 - 551	
5/16 - 18	.591	.472	.052	.551	.417 - .425	.433 - .449	SSZ - 3118 - 591	SSZH - 3118 - 591	
5/16 - 24	.591	.472	.052	.551	.417 - .425	.433 - .449	SSZ - 3124 - 591	SSZH - 3124 - 591	
3/8 - 16	.709	.551	.062	.630	.496 - .504	.512 - .528	SSZ - 3716 - 709	SSZH - 3716 - 709	
3/8 - 24	.709	.551	.062	.630	.496 - .504	.512 - .528	SSZ - 3724 - 709	SSZH - 3724 - 709	
1/2 - 13	.866	.630	.062	.709	.575 - .583	.591 - .606	SSZ - 5013 - 866	SSZH - 5013 - 866	

(All dimensions in inches)

Metric	Thread	L Insert Length	D Insert Dia.	B Head Thickness	C Head Dia.	H Hole Size (+0.10 -0.00) Thermo Plastics	H Hole Size (+0.10 -0.00) Thermosets	SSZ Part Number	SSZH Part Number
	M2	6.0	4.50	0.58	5.99	3.99 - 4.09	4.09 - 4.29	SSZ - M2 - 6.00	SSZH - M2 - 6.00
	M2.5	6.0	4.50	0.58	5.99	3.99 - 4.09	4.09 - 4.29	SSZ - M2.5 - 6.00	SSZH - M2.5 - 6.00
M3	6.0	5.00	0.58	5.99	4.50 - 4.60	4.60 - 4.80	SSZ - M3 - 6.00	SSZH - M3 - 6.00	
M3.5	8.0	6.00	0.74	7.49	5.31 - 5.41	5.51 - 5.69	SSZ - M3.5 - 8.00	SSZH - M3.5 - 8.00	
M4	8.0	6.50	0.89	8.00	5.79 - 5.89	5.99 - 6.20	SSZ - M4 - 8.00	SSZH - M4 - 8.00	
M5	10.0	8.00	1.07	9.50	7.11 - 7.19	7.29 - 7.59	SSZ - M5 - 10.00	SSZH - M5 - 10.00	
M6	14.0	10.00	1.32	11.99	8.61 - 8.79	8.99 - 9.40	SSZ - M6 - 14.00	SSZH - M6 - 14.00	
M8	15.0	12.00	1.32	14.00	10.59 - 10.79	11.00 - 11.40	SSZ - M8 - 15.00	SSZH - M8 - 15.00	
M10	18.0	14.00	1.57	16.00	12.60 - 12.80	13.00 - 13.41	SSZ - M10 - 18.00	SSZH - M10 - 18.00	
M12	22.0	16.00	1.57	18.00	14.61 - 14.81	15.01 - 15.39	SSZ - M12 - 22.00	SSZH - M12 - 22.00	

* Add "AL" to the end of the part number for Aluminum
ex: SSZ-M3-6.00-AL

* Add "SS" to the end of the part number for stainless steel
ex: SSZ-M3-6.00-SS

(All dimensions in millimeters)

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