

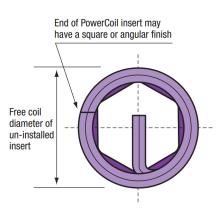
Insert Part Number		3532-5/16X2.5DSL
Insert Thread Form		Unified National Coarse -
		UNC
Nominal Thread Size		5/16 X 18
Insert Length Q (installed)	D	2.5D
Insert Length Q (installed)	inch	0.7800
Insert Material		304 Stainless Steel
Insert Coating/Plating		-
Military Standard	#	MS21209-C5-25
National Aerospace Standard	#	NASM21209-C5-25
Federal Stock	#	-
National Stock / NATO	#	-

Optimum thread performance with Wire Thread Inserts is achieved when the inserts are installed 1/2 to 1 pitch below the surface of the tapped hole. This means that the actual length of an installed insert is equal to dimension Q less 1/2 to 1 pitch. Dimensions S and T allow for tap end clearance of intermediate taps. When using Bottoming and Spiral Flute Taps these dimensions maybe reduced by an amount equal to 2 thread pitches. Any countersink depths must be added to these dimensions.

COMPATIBLE POWERCOIL INSTALLATION	AND REMOVAL TOOLS
TOOL TYPE	Part #
Hand Installation Tool	-
Tang Break Tool	3500-TB12
Removal Tool	3500-RT2
Machine Installation Tool	3532-5/16MIT
Mandrel Installation Tool	-
Captive Prewinder Tool	3532-5/16HIP
Non-Captive Prewinder Tool	-
Spring Loaded tang Break Tool	3500-STB9
Pneumatic Front end assembly (FEA)	-
FEA Mandrel	-
FEA Nozzle	-
Pneumatic Tool	-

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TAPPED HOLE DIMENSIONS

Tap Size

Tap Size

B Major Diameter

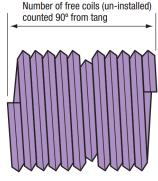
C Pitch Diameter MIN

C Pitch Diameter MAX

C Pitch Diameter MAX

T Tapping Depth MIN

Power Coil Tap Part Number



UNC 5/16 X 18

0.3847

0.3486

0.3515

0.353

0.975

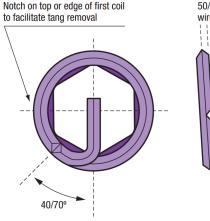
3532-5/16T

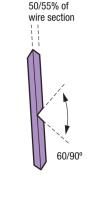
3532-5/161

3532-5/16B

3532-5/16SP

3532-5/16SF





DRILLED HOLE DIMENSIONS INTERMEDIATE/PLUG TAP			
Drill Size	mm	8.30	
Drill Part Number		2007-8.30	
Drill Size inch	inch	21/64	
Drill Part Number inch		2006-21/64	
A Minor Diameter inimum	inch	0.325	
A Minor Diameter maximum	inch	0.334	
S Drilling Depth minimum	inch	1.031	

STI

2B

1B

STI

STI

STI

STI

inch

inch

inch

inch

inch

Taper

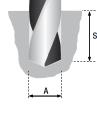
Intermediate

Bottoming

SpiralPoint

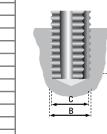
SpiralFlute





drilling and tapping operation is dependant upon many factors -type of material being cut, cutting speed, coolant, equipment being used - and it is not possible to give specific drill sizes for each material. Drill sizes shown are recommendations only and PowerCoil would strongly suggest that independent testing be performed for specific and critical applications. When using wire thread inserts it is important that the drilling and tapping diameters and lengths shown are adhered to.

IMPORTANT The success of any



The figures outlined in these tables encompass effective free coil tolerances for most globally recognized standards and manufacturers, including those of reduced diameter wire thread inserts.

Number of Free Coils – the number of coils on an un-installed insert counted along the insert length 90° from the tang.

