powercoil®

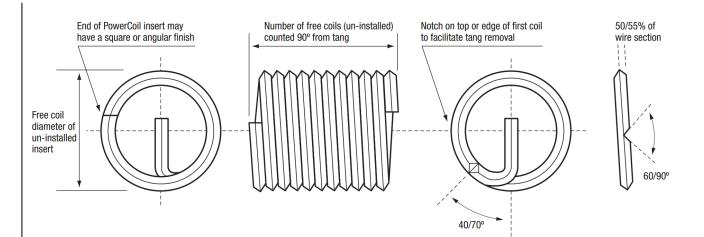
Insert Part Number		3546-1/2X1.5DP	
Insert Thread Form		British Standard Pipe - BSP	
Nominal Thread Size		1/2 X 14	
Insert Length Q (installed)	D	1.5D	
Insert Length Q (installed)	inch	0.750	
Insert Material		304 Stainless Steel	
Insert Coating/Plating		-	
Military Standard	#		
National Aerospace Standard	#		
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	3500-HIT23	
Tang Break Tool	-	
Removal Tool	3500-RT3	
Machine Installation Tool	-	
Mandrel Installation Tool	-	
Captive Prewinder Tool	-	
Non-Captive Prewinder Tool	-	
Spring Loaded tang Break Tool	-	
Pneumatic Front end assembly (FEA)	-	
FEA Mandrel	-	
FEA Nozzle	-	
Pneumatic Tool	-	

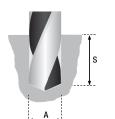


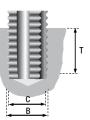
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DRILLED HOLE DIMENSIONS INTERMEDIATE/PLUG TAP					
Drill Size	mm	21.50			
Drill Part Number		2654-21.50			
Drill Size inch	inch	27/32			
Drill Part Number inch		2651-27/32			
A Minor Diameter inimum	inch	0.840			
A Minor Diameter maximum	inch	0.850			
S Drilling Depth minimum	inch	1.071			

Tap Size	STI			BSP 1/2 X 14
Tap Size	-			-
B Major Diameter		inch		0.909
C Pitch Diameter MIN		inch		0.8708
C Pitch Diameter MAX	Clos e	inch		0.8735
C Pitch Diameter MAX	Medi um	inch		0.8754
T Tapping Depth MIN		inch		1.000
Power Coil Tap Part Number	STI	Taper		3546-1/2T
Power Coil Tap Part Number	STI	Intermediate		3546-1/21
Power Coil Tap Part Number	STI	Bottoming		3546-1/2B
Power Coil Tap Part Number	STI	SpiralPoint		-
Power Coil Tap Part Number	STI	SpiralFlute		-
E Fitted Minor Diameter	inch		0.7336	
Q Nominal Length Installed	inch		0.750	
Free Coil Diameter minimum	inch		0.92	
Free Coil Diameter maximum	inch		0.99	
Free Coils minimum	#		8.10	
Free Coils maximum	#		8.80	

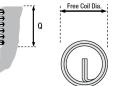




IMPORTANT The success of any drilling and tapping operation is dependant upon many factors -type of material being cut, cutting speed, coolant, equipment being used - and it is not possible to give specific drill sizes for each material. Drill sizes shown are recommendations only and PowerCoil would 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. 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.





Number of Free Coils