powercoil®

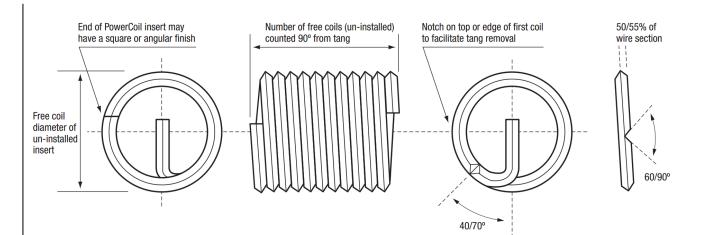
Insert Part Number		3552-3/4X.553
Insert Thread Form		NPT
Nominal Thread Size		3/4 X 14
Insert Length Q (installed)	D	0.553 inch
Insert Length Q (installed)	inch	0.553
Insert Material		304 Stainless Steel
Insert Coating/Plating		-
Military Standard	#	
National Aerospace Standard	#	
Federal Stock	#	
National 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				
Part #				
3500-HIT24				
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-				
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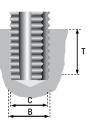


DRILLED HOLE DIMENSIONS INTERMEDIATE/PLUG TAP				
Drill Size	mm	-		
Drill Part Number		-		
Drill Size inch	inch	1-1/64		
Drill Part Number inch		-		
A Minor Diameter inimum	inch	1.0351		
A Minor Diameter maximum	inch	1.0494		
S Drilling Depth minimum	inch	1.074		

TAPPED HOLE DIMENSIONS					
Tap Size	STI		NPT 3/4 X 14		
Tap Size	3B		-		
B Major Diameter		inch	1.157		
C Pitch Diameter MIN		inch	-		
C Pitch Diameter MAX	3B	inch	-		
C Pitch Diameter MAX	-	inch	-		
T Tapping Depth MIN		inch	0.846		
Power Coil Tap Part Number	STI	Taper	3552-3/4T		
Power Coil Tap Part Number	STI	Intermediate	3552-3/41		
Power Coil Tap Part Number	STI	Bottoming	3552-3/4B		
Power Coil Tap Part Number	STI	SpiralPoint	-		
Power Coil Tap Part Number	STI	SpiralFlute	-		

INSERT SPECIFICATIONS			
E Fitted Minor Diameter	inch		
Q Nominal Length Installed	inch	0.553	
Free Coil Diameter minimum	inch	1.232	
Free Coil Diameter maximum	inch	1.262	
Free Coils minimum	#	5-5/8	
Free Coils maximum	#		

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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

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.

