



TOOL SYSTEMS

INCORPORATED

COATING CENTER

Standard Coatings:

TiN

TiCN

ALTiN (Multi-Layer)

NEW High Performance Next Generation Coatings

TiCN-2

A richer improved version with much more versatility and superior performance. In addition to all around cutting tool applications, TiCN-2 is the primary choice for Hobbing, Punching & Forming applications.

ALTiN-5

Multi-Layer nanotechnology fortified version with improved layer strength completed with a super hard top "shell" for the toughest applications. The Extreme wear resistance of ALTiN-5 gives you increased tool life.

71 ALPHA PARK ~ CLEVELAND, OH 44143

440-461-6363

TiCN & ALTiN					
ROUND SHANK	OVER ALL LENGTH				
DIA	< 3.149	3.150 - 4.252		4.253 - 6.417	
>.236	1.59	1.59		1.65	
.237 - .315	2.43	2.49		3.27	
.316 - .394	4.35	4.62		5.28	
.395 - .472	4.35	4.62		5.28	
.473 - .551	5.43	7.26		8.79	
.552 - .630	5.43	7.26		8.79	
.631 - .709	6.18	8.25		11.34	
.710 - .787	7.71	9.81		14.22	
.788 - .866	7.71	9.81		14.22	
.867 - .945	12.06	14.13		18.39	
.946 - .984	12.06	14.13		18.39	
.985 - 1.181	13.62	17.76		25.86	
1.182 - 1.260	13.62	17.76		25.86	
ROUND SHANK		PRICE		PRICE	

TiCN-2					
ALTiN-5					
ROUND SHANK	OVER ALL LENGTH				
DIA	< 3.149	3.150 - 4.252		4.253 - 6.417	
>.236	2.22	2.22		2.31	
.237 - .315	3.39	3.48		4.59	
.316 - .394	6.09	6.48		7.38	
.395 - .472	6.09	6.48		7.38	
.473 - .551	7.59	10.17		12.30	
.552 - .630	7.59	10.17		12.30	
.631 - .709	8.64	11.55		15.87	
.710 - .787	10.80	13.74		19.92	
.788 - .866	10.80	13.74		19.92	
.867 - .945	16.89	19.77		25.74	
.946 - .984	16.89	19.77		25.74	
.985 - 1.181	19.08	24.87		36.21	
1.182 - 1.260	19.08	24.87		36.21	
ROUND SHANK		PRICE		PRICE	

Inserts	TiCN-2	
I.C. Size	TiCN & ALTiN	ALTiN-5
0.250	2.44	3.04
0.375	2.76	3.40
0.500	3.16	4.00
0.625	3.32	4.16
0.750	3.60	4.52
1.000	4.32	5.68
	PRICE	PRICE

TOP-NOTCH	TiCN-2	
	TiCN & ALTiN	ALTiN-5
SIZE 2	3.60	4.52
SIZE 3	3.60	5.16
SIZE 4	5.04	6.44
	PRICE	PRICE

DOGBONE & CUT-OFF	TiCN-2	
	TiCN & ALTiN	ALTiN-5
.250 X .750	2.52	3.00
.375 X .750	3.60	4.52
.250 X 1.125	3.16	4.00
.375 X 1.125	3.96	4.92
.250 X 1.500	3.96	4.92
.375 X 1.500	5.04	6.24
WIDTH X OAL	PRICE	PRICE

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		TiCN-2			
SPADE DRILLS	TiCN & ALTiN	ALTiN-5	SIZE RANGE		
4-1/2	10.80	12.40	4.376 - 4.500		
4-3/8	10.50	12.10	4.251 - 4.375		
4-1/4	10.20	11.80	4.001 - 4.250		
4	9.60	11.20	3.751 - 4.000		
3-3/4	9.00	10.60	3.626 - 3.750		
3-5/8	8.70	10.30	3.501 - 3.625		
3-1/2	8.40	10.00	3.376 - 3.500		
3-3/8	8.10	9.70	3.251 - 3.375		
3-1/4	7.80	9.40	3.126 - 3.250		
3-1/8	7.48	9.08	3.001 - 3.125		
3	7.20	8.80	2.876 - 3.000		
2-7/8	6.90	8.50	2.751 - 2.875		
2-3/4	6.60	8.10	2.626 - 2.750		
2-5/8	6.28	7.88	2.376 - 2.625		
2-3/8	5.70	7.30	2.063 - 2.375		
2-1/16	4.96	6.56	2.001 - 2.062		
2	4.80	6.40	1.985 - 2.000		
1-63/64	4.76	6.36	1.813 - 1.984		
1-13/16	4.36	5.96	1.751 - 1.812		
1-3/4	4.10	5.80	1.501 - 1.750		
1-1/2	3.60	5.20	1.251 - 1.500		
1-1/4	2.80	4.60	1.001 - 1.250		
1	2.50	4.00	.751 - 1.000		
3/4	2.50	4.00	.501 - .750		
1/2	2.50	4.00	.376 - .500		
3/8	2.50	4.00	> .375		
SPADE DRILLS		PRICE		PRICE	SIZE RANGE

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