



MADE IN U.S.A.

CARBIDE INSERTS

Ceramic inserts available.
Please inquire.

TPG TRIANGLE — POSITIVE RAKE GROUND ALL OVER

Insert Number	I.C.	Thickness	Radius	Price Each		
				C-2	C-5 & C-6	TiN Coated
TPG-220	1/4	1/8	0	3.60	3.80	4.61
TPG-221	1/4	1/8	1/64	3.60	3.80	4.61
TPG-222	1/4	1/8	1/32	3.60	3.80	4.61
TPG-223	1/4	1/8	3/64	3.60	3.80	4.61
TPG-320	3/8	1/8	0	4.25	4.50	5.40
TPG-321	3/8	1/8	1/64	4.25	4.50	5.40
TPG-322	3/8	1/8	1/32	4.25	4.50	5.40
TPG-323	3/8	1/8	3/64	4.25	4.50	5.40
TPG-324	3/8	1/8	1/16	4.25	4.50	5.40
TPG-430	1/2	3/16	0	5.98	6.50	7.60
TPG-431	1/2	3/16	1/64	5.98	6.50	7.60
TPG-432	1/2	3/16	1/32	5.98	6.50	7.60
TPG-433	1/2	3/16	3/64	5.98	6.50	7.60
TPG-434	1/2	3/16	1/16	5.98	6.50	7.60
TPG-542	5/8	1/4	1/32	9.90	10.85	12.95
TPG-543	5/8	1/4	3/64	9.90	10.85	12.95
TPG-544	5/8	1/4	1/16	9.90	10.85	12.95

TPU TRIANGLE — POSITIVE RAKE GROUND TOP AND BOTTOM

Insert Number	I.C.	Thickness	Radius	Price Each		
				C-2	C-5 & C-6	TiN Coated
TPU-222	1/4	1/8	1/32	2.38	2.80	3.55
TPU-321	3/8	1/8	1/64	3.20	3.45	4.65
TPU-322	3/8	1/8	1/32	3.20	3.45	4.65
TPU-323	3/8	1/8	3/64	3.20	3.45	4.65
TPU-431	1/2	3/16	1/64	5.15	5.55	6.68
TPU-432	1/2	3/16	1/32	5.15	5.55	6.68
TPU-433	1/2	3/16	3/64	5.15	5.55	6.68
TPU-434	1/2	3/16	1/16	5.15	5.55	6.68
TPU-543	5/8	1/4	3/64	9.40	9.90	11.35
TPU-544	5/8	1/4	1/16	9.40	9.90	11.35

TNMA TRIANGLE — NEGATIVE RAKE LAPPED TOP AND BOTTOM WITH HOLE

Insert Number	I.C.	Thickness	Radius	Price Each		
				C-2	C-5 & C-6	TiN Coated
TNMA-222	1/4	1/8	1/32	1.30	1.55	2.35
TNMA-322	3/8	1/8	1/32	1.78	1.94	2.80
TNMA-323	3/8	1/8	3/64	1.78	1.94	2.80
TNMA-432	1/2	3/16	1/32	3.44	3.87	4.78
TNMA-433	1/2	3/16	3/64	3.44	3.87	4.78
TNMA-434	1/2	3/16	1/16	3.44	3.87	4.78
TNMA-438	1/2	3/16	1/8	3.44	3.87	4.78
TNMA-542	5/8	1/4	1/32	6.15	7.15	8.77
TNMA-544	5/8	1/4	1/16	6.15	7.15	8.77
TNMA-666	3/4	3/8	3/32	10.80	12.68	15.59

TNMG TRIANGLE — NEGATIVE RAKE WITH CHIP CONTROL

Insert Number	I.C.	Thickness	Radius	Price Each		
				C-2	C-5 & C-6	TiN Coated
TNMG-221	1/4	1/8	1/64	1.81	1.99	2.64
TNMG-222	1/4	1/8	1/32	1.81	1.99	2.64
TNMG-321	3/8	1/8	1/64	2.20	2.37	2.99
TNMG-322	3/8	1/8	1/32	2.20	2.37	2.99
TNMG-323	3/8	1/8	3/64	2.20	2.37	2.99
TNMG-324	3/8	1/8	1/16	2.20	2.37	2.99
TNMG-331	3/8	3/16	1/64	2.64	3.00	3.68
TNMG-332	3/8	3/16	1/32	2.64	3.00	3.68
TNMG-333	3/8	3/16	3/64	2.64	3.00	3.68
TNMG-431	1/2	3/16	1/64	3.75	4.25	4.95
TNMG-432	1/2	3/16	1/32	3.75	4.25	4.95
TNMG-433	1/2	3/16	3/64	3.75	4.25	4.95
TNMG-434	1/2	3/16	1/16	3.75	4.25	4.95
TNMG-438	1/2	3/16	1/8	3.75	4.25	4.95
TNMG-542	5/8	1/4	1/32	6.55	7.65	9.62
TNMG-543	5/8	1/4	3/64	6.55	7.65	9.62
TNMG-544	5/8	1/4	1/16	6.55	7.65	9.62
TNMG-666	3/4	3/8	3/32	11.68	13.55	15.95

TNG TRIANGLE — NEGATIVE RAKE GROUND ALL OVER

Insert Number	I.C.	Thickness	Radius	Price Each		
				C-2	C-5 & C-6	TiN Coated
TNG-221	1/4	1/8	1/64	2.43	2.60	3.74
TNG-222	1/4	1/8	1/32	2.43	2.60	3.74
TNG-321	3/8	1/8	1/64	3.06	3.37	4.60
TNG-322	3/8	1/8	1/32	3.06	3.37	4.60
TNG-323	3/8	1/8	3/64	3.06	3.37	4.60
TNG-324	3/8	1/8	1/16	3.06	3.37	4.60
TNG-332	3/8	3/16	1/32	3.65	4.05	5.40
TNG-333	3/8	3/16	3/64	3.65	4.05	5.40
TNG-432	1/2	3/16	1/32	5.08	5.60	7.45
TNG-433	1/2	3/16	3/64	5.08	5.60	7.45
TNG-434	1/2	3/16	1/16	5.08	5.60	7.45
TNG-544	5/8	1/4	1/16	7.85	8.95	12.50

TNU TRIANGLE — NEGATIVE RAKE GROUND TOP AND BOTTOM

Insert Number	I.C.	Thickness	Radius	Price Each		
				C-2	C-5 & C-6	TiN Coated
TNU-222	1/4	1/8	1/32	1.47	1.60	2.60
TNU-322	3/8	1/8	1/32	1.95	2.26	3.38
TNU-323	3/8	1/8	3/64	1.95	2.26	3.38
TNU-332	3/8	3/16	1/32	2.46	2.91	4.05
TNU-333	3/8	3/16	3/64	2.46	2.91	4.05
TNU-432	1/2	3/16	1/32	3.60	4.30	5.89
TNU-433	1/2	3/16	3/64	3.60	4.30	5.89
TNU-434	1/2	3/16	1/16	3.60	4.30	5.89
TNU-544	5/8	1/4	1/16	6.60	7.95	9.95

TNMP TRIANGLE — NEGATIVE RAKE 5° POSITIVE

Insert Number	I.C.	Thickness	Radius	Price Each	
				C-5 & C-6	TiN Coated
TNMP-321	3/8	1/8	1/64	3.30	4.10
TNMP-322	3/8	1/8	1/32	3.30	4.10
TNMP-323	3/8	1/8	3/64	3.30	4.10
TNMP-331	3/8	3/16	1/64	3.75	4.55
TNMP-332	3/8	3/16	1/32	3.75	4.55
TNMP-333	3/8	3/16	3/64	3.75	4.55
TNMP-431	1/2	3/16	1/64	5.32	6.19
TNMP-432	1/2	3/16	1/32	5.32	6.19

TPC TRIANGLE — POSITIVE RAKE GROUND ALL OVER WITH WIPING FLATS ON THREE CORNERS

Insert Number	I.C.	Thickness	Price Each		
			C-2	C-5 & C-6	TiN Coated
TPC-32ZR	3/8	1/8	4.80	4.98	5.85

TPGH TRIANGLE — POSITIVE RAKE GROUND ALL OVER WITH CHIP GROOVE ON ONE SIDE

Insert Number	I.C.	Thickness	Radius	Price Each		
				C-2	C-5 & C-6	TiN Coated
TPGH-21.50	1/4	3/32	0	4.75	5.23	6.11
TPGH-21.51	1/4	3/32	1/64	4.75	5.23	6.11
TPGH-21.52	1/4	3/32	1/32	4.75	5.23	6.11
TPGH-321	3/8	1/8	1/64	5.13	5.70	6.95
TPGH-322	3/8	1/8	1/32	5.13	5.70	6.95

TNUC TRIANGLE — NEGATIVE RAKE BRAKE TURNING INSERT

Insert Number	I.C.	Thickness	Radius	Hole Size	Price Each
					C-2
TNUC-21.52	1/4	3/32	1/32	.136	2.73
TNUC-222	1/4	1/8	1/32	.136	2.90

Aluminum Oxide Coating (Al₂O₃) available, add 40% to TiN Coated List Price.