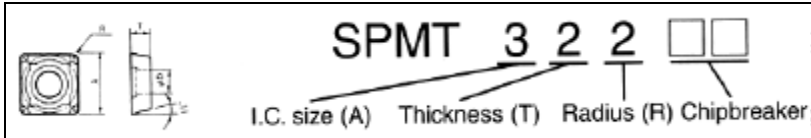


# INSERTS - SPMT, TNMG



SP			Chip Breaker: <b>PS</b> Finish To Medium	Cermet Grades
PS	Chip Breaker			
I.C.	T	Radius	Applications	Steel 600-1000
			Geometry	S.S 500-800
3/8 0.375	1/8 0.125	1/64 0.016	SPMT321PS SPMT090304PS	TO-2476
3/8 0.375	1/8 0.125	1/32 0.031	SPMT322PS SPMT090308PS	TO-2479
1/2 0.500	3/16 0.187	1/64 0.016	SPMT431PS SPMT120404PS	TO-2482
1/2 0.500	3/16 0.187	1/32 0.031	SPMT432PS SPMT120408PS	TO-2485

**D.O.C. = .010~.100, Feed = .003 ~ .0080**

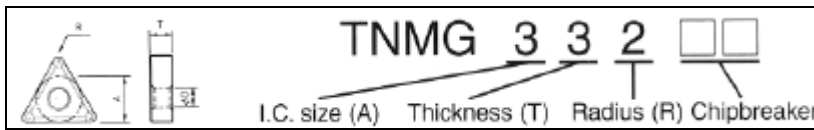
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TUNGALOY INSERTS QUANTITY DISCOUNT	
1-19 pcs	LIST
20-39 pcs	5% OFF
40-99 pcs	10% OFF
100 +	CALL

**OD Turning Holders**

Are Located On Pages 298-305



**TUNGALOY CERMET**

AT530 is a TiAlN coated cermet and excels in high speed turning of steels

TN			Chip Breaker: <b>SS</b> Semi Finishing	Coated Carbide Grades	
SS	Chip Breaker			T6020	T6030
I.C.	T	Radius	Applications	Stainless 350-750	Stainless 250-550
			Geometry		
3/8 0.375	3/16 0.187	1/64 0.016	TNMG331SS TNMG160404SS	TO-2703	TO-2704
3/8 0.375	3/16 0.187	1/32 0.031	TNMG332SS TNMG160408SS	TO-2755	TO-2756
3/8 0.375	3/16 0.187	3/64 0.047	TNMG333SS TNMG160412SS	-	TO-2808
1/2 0.500	3/16 0.187	1/64 0.016	TNMG431SS TNMG220404SS	TO-2829	TO-2830
1/2 0.500	3/16 0.187	1/32 0.031	TNMG432SS TNMG220408SS	TO-2850	TO-2851
1/2 0.500	3/16 0.187	3/64 0.047	TNMG433SS TNMG220412SS	-	TO-2892

**D.O.C. = .020~.120, Feed = .003 ~ .008**

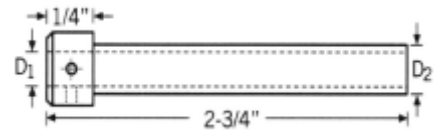
## BORING BAR SLEEVES

Short Length Style



Heat treated and precision ground. Two lockdowns at 90° for secure fastening. Max T.I.R. .002". Short Length Style.

Excellent for solid carbide boring tools, grooving tools and threading tools



OD	OAL	Head Thickness	ID	Part Number	Price Each
1/2"	2-3/4"	1/4"	1/8	MI-TH84	\$19.25
			3/16	MI-TH85	
			1/4	MI-TH86	
			5/16	MI-TH87	
5/8"	2-3/4"	1/4"	3/8	MI-TH88	\$19.25
			1/8	MI-TH104	
			3/16	MI-TH105	
			1/4	MI-TH106	
3/4"	2-3/4"	1/4"	5/16	MI-TH107	\$23.90
			3/8	MI-TH108	
			1/8	MI-TH204	
			3/16	MI-TH205	
3/4"	2-3/4"	1/4"	1/4	MI-TH206	\$23.90
			5/16	MI-TH207	
			3/8	MI-TH208	

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TN			Chip Breaker: SA- Light Cutting		
			Coated Carbide Grades		
SA			AH110	AH120	
←---Speed/Toughness ---→					
I.C.	T	Radius	Applications	S.A. 200-250	S.A. 150-200
			Geometry	Stainless 500-800	Stainless 450-700
3/8 0.375	3/16 0.187	1/64 0.016	TNMG331SA TNMG160404SA	-	TO-2698
3/8 0.375	3/16 0.187	1/32 0.031	TNMG332SA TNMG160408SA	-	TO-2749
1/2 0.500	3/16 0.187	1/32 0.031	TNMG432SA TNMG220408SA	TO-2843	TO-2844
1/2 0.500	3/16 0.187	3/64 0.047	TNMG433SA TNMG220412SA	-	TO-2888

**D.O.C. = .040~.100, Feed = .008 ~ .014**

TN			Chip Breaker: SM- Medium Cutting		
			Coated Carbide Grades		
SM			T6020	T6030	
←---Speed/Toughness ---→					
I.C.	T	Radius	Applications	Stainless 400-500	Stainless 300-500
			Geometry		
3/8 0.375	3/16 0.187	1/64 0.016	TNMG331SM TNMG160404SM	TO-2699	TO-2700
3/8 0.375	3/16 0.187	1/32 0.031	TNMG332SM TNMG160408SM	TO-2751	TO-2752
3/8 0.375	3/16 0.187	3/64 0.047	TNMG333SM TNMG160412SM	-	TO-2807

**D.O.C. = .040~.150, Feed = .006 ~ .014**

TN			Chip Breaker: TM- for Medium Cutting						
			Coated Carbide Grades						
TM			T9015	T9025	T9035	T6030	AH110	AH120	
←---Speed/Toughness ---→									
I.C.	T	Radius	Applications	Steel 500-1000	Steel 400-800	Steel	SS	S.A. 125-200	S.A. 65-150
			Geometry						Stainless 400-600
1/4 0.250	1/8 0.125	1/64 0.016	TNMG221TM TNMG110304TM	TO-3635	TO-3636	-	-	-	-
1/4 0.250	1/8 0.125	1/32 0.031	TNMG222TM TNMG110308TM	TO-3637	TO-3638	-	-	-	-
3/8 0.375	1/8 0.125	1/64 0.016	TNMG321TM TNMG160304TM	-	TO-7449	-	-	-	-
3/8 0.375	1/8 0.125	1/32 0.031	TNMG322TM TNMG160308TM	-	TO-7455	-	-	-	-
3/8 0.375	3/16 0.187	1/64 0.016	TNMG331TM TNMG160404TM	TO-3639	TO-3640	TO-7608	-	TO-2715	TO-2716
3/8 0.375	3/16 0.187	1/32 0.031	TNMG332TM TNMG160408TM	TO-3644	TO-3645	TO-3646	-	TO-2768	TO-2769
3/8 0.375	3/16 0.187	3/64 0.047	TNMG333TM TNMG160412TM	TO-7701	TO-3649	TO-3650	-	-	-
1/200 0.5	3/16 0.187	1/64 0.016	TNMG431TM TNMG220404TM	-	-	-	-	-	TO-2833
1/2 0.500	3/16 0.187	1/32 0.031	TNMG432TM TNMG220408TM	TO-3656	TO-3657	TO-3658	TO-7770	-	TO-2868
1/2 0.500	3/16 0.187	3/64 0.047	TNMG433TM TNMG220412TM	TO-3662	TO-3665	TO-3664	TO-7788	-	TO-2908

**D.O.C. = .080~.200, Feed = .008 ~ .020**

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TN			Chip Breaker: TH- for ROUGHING						
			Coated Carbide Grades						
TH			T9005	T9015	T9025	T9035	T6030	AH120	
←---Speed/Toughness ---→									
I.C.	T	Radius	Applications	Steel 650-1050	Steel 500-800	Steel 300-700	Steel	Stainless 250-500	S.A. 65-150
			Geometry						Stainless 400-600
1/2 0.500	3/16 0.187	1/32 0.031	TNMG432TH TNMG220408TH	TO-3652	TO-3653	TO-3654	TO-3655	TO-7769	TO-2859
1/2 0.500	3/16 0.187	3/64 0.047	TNMG433TH TNMG220412TH	TO-3659	TO-3660	TO-7787	TO-3661	-	TO-2901

**D.O.C. = .120~.250, Feed = .012 ~ .020**

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TN			Chip Breaker: P- GENERAL PURPOSE	
P	Chip Breaker		Uncoated Carbide Grades	
			TH10	
I.C.	T	Radius	Applications	Non Ferrous
			Geometry	
3/8 0.375	3/16 0.187	1/128 0.008	TNGG330FLP TNGG160402LP	TO-2625
3/8 0.375	3/16 0.187	1/128 0.008	TNGG330FRP TNGG160402RP	TO-2626
3/8 0.375	3/16 0.187	1/64 0.016	TNGG331FLP TNGG160404LP	TO-2628
3/8 0.375	3/16 0.187	1/64 0.016	TNGG331FRP TNGG160404RP	TO-2629
3/8 0.375	3/16 0.187	1/32 0.031	TNGG332FLP TNGG160408LP	TO-2631
3/8 0.375	3/16 0.187	1/32 0.031	TNGG332FRP TNGG160408RP	TO-2632
D.O.C. = .02~.150, Feed = .004 ~ .016				

TC			Chipbreaker: PP- Finish to Medium	
PP	Chip Breaker		Uncoated Carbide Grades	
			H10T	
I.C.	T	Radius	Applications	S.A.
			Geometry	
1/4 0.250	3/32 0.093	1/128 0.008	TCGT2150PP TCGT110202PP	TO-2535
1/4 0.250	3/32 0.093	1/64 0.016	TCGT2151PP TCGT110204PP	TO-2536
3/8 0.375	5/32 0.156	1/128 0.008	TCGT3250PP TCGT16T302PP	TO-2537
3/8 0.375	5/32 0.156	1/64 0.016	TCGT3251PP TCGT16T304PP	TO-2538
3/8 0.375	5/32 0.156	1/32 0.031	TCGT3252PP TCGT16T308PP	TO-2539
D.O.C. = .020~.150, Feed = .004 ~ .014				

TC			Chip Breaker: PS- Finish to Medium		
PS	Chip Breaker		Cermets Grades	Coated Carbide	
			NS530 AT530 T9025	-----Speed/Toughness----->	
I.C.	T	Radius	Applications	Steel	Steel 600-1000
			Geometry	Stainless 400-600	Stainless 500-800
1/4 0.250	3/32 0.093	1/128 0.008	TCMT21.50PS TCMT110202PS	-	TO-2547 TO-3630
1/4 0.250	3/32 0.093	1/64 0.016	TCMT21.51PS TCMT110204PS	TO-2555	TO-2554 TO-3631
1/4 0.250	3/32 0.093	1/32 0.031	TCMT21.52PS TCMT110208PS	-	TO-2562 TO-3632
3/8 0.375	5/32 0.156	1/64 0.016	TCMT32.51PS TCMT16T304PS	TO-2570	TO-2569 TO-3633
3/8 0.375	5/32 0.156	1/32 0.031	TCMT32.52PS TCMT16T308PS	TO-2578	TO-2577 TO-3634
D.O.C. = .010~.100, Feed = .003 ~ .008					

TP			Chip Breaker: PS- Light Machining		
PS	Chip Breaker		Cermets Grades	Coated Carbide	
			NS530 AT530 T9025	-----Speed/Toughness----->	
I.C.	T	Radius	Applications	Steel	Steel 600-1000
			Geometry	Stainless 400-600	Stainless 500-800
1/4 0.250	3/32 0.093	1/128 0.008	TPMT21.50PS TPMT110202PS	-	TO-3046 TO-3670
1/4 0.250	3/32 0.093	1/64 0.016	TPMT21.51PS TPMT110204PS	TO-3053	TO-3052 TO-3671
1/4 0.250	3/32 0.093	1/32 0.031	TPMT21.52PS TPMT110208PS	-	TO-3059 TO-3672
1/4 0.250	1/8 0.125	1/32 0.031	TPMT2.522PS TPMT130308PS	-	- TO-3673
3/8 0.375	5/32 0.156	1/64 0.016	TPMT32.51PS TPMT16T304PS	-	TO-3066 TO-3674
3/8 0.375	5/32 0.156	1/32 0.031	TPMT32.52PS TPMT16T308PS	-	TO-3073 TO-3675
7/8 0.875	3/16 0.187	1/128 0.008	TPMT730PS TPMT090202PS	-	TO-3039 -
7/8 0.875	3/16 0.187	1/64 0.016	TPMT731PS TPMT090204PS	-	TO-3042 -
7/8 0.875	3/16 0.187	1/32 0.031	TPMT732PS TPMT090208PS	-	TO-3044 -
D.O.C. = .010~.100, Feed = .003 ~ .008					

## TUNGALOY CERMETS

**AT530** is a TiAlN coated cermet and excels in high speed turning of steels

**NS530** is a general purpose cermet for a wide range of cutting conditions from low to high speeds for various steels

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