















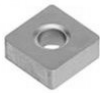



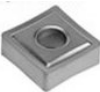

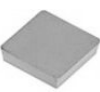

Carbide Inserts




INSERT TYPE	ANSI CODE	ISO CODE	DIMENSIONS		
			I.C.	T	N.R.
	CCMT 21.51	CCMT060204	1/4	3/32	1/64
	CCMT 21.52	CCMT060208	1/4	3/32	1/32
	CCMT 32.51	CCMT09T304	3/8	5/32	1/64
	CCMT 32.52	CCMT09T308	3/8	5/32	1/32
	CCMT 432	CCMT120408	1/2	3/16	1/32
	CNMA 431	CNMA120404	1/2	3/16	1/64
	CNMA 432	CNMA120408	1/2	3/16	1/32
	CNMA 433	CNMA120412	1/2	3/16	3/64
	CNMA 542	CNMA160608	5/8	1/4	1/32
	CNMA 543	CNMA160612	5/8	1/4	3/64
	CNMA 642	CNMA190608	3/4	1/4	1/32
	CNMA 643	CNMA190612	3/4	1/4	3/64
	CNMA 644	CNMA190616	3/4	1/4	1/16
	CNMA 646	CNMA190624	3/4	1/4	3/32
		CNMG 431	CNMG120404	1/2	3/16
CNMG 432		CNMG120408	1/2	3/16	1/32
CNMG 433		CNMG120412	1/2	3/16	3/64
CNMG 434		CNMG120416	1/2	3/16	1/16
CNMG 542		CNMA160608	5/8	1/4	1/32
CNMG 543		CNMA160612	5/8	1/4	3/64
CNMG 642		CNMA190608	3/4	1/4	1/32
CNMG 643		CNMA190612	3/4	1/4	3/64
CNMG 644		CNMA190616	3/4	1/4	1/16
		CNMP 422	CNMP120308	1/2	1/8
	CNMP 431	CNMP120404	1/2	3/16	1/64
	CNMP 432	CNMP120408	1/2	3/16	1/32
	CNMP 642	CNMP190602	3/4	1/4	1/32
	CNMP 644	CNMP190616	3/4	1/4	1/16
	CPG 421	CPG120304	1/2	1/8	1/64
	CPG 422	CPG120308	1/2	1/8	1/32
	CPG 632	CPG190408	3/4	3/16	1/32
	CPG 633	CPG190412	3/4	3/16	3/64
	DCMT 32.51	DCMT11T304	3/8	5/32	1/64
DCMT 32.52	DCMT11T308	3/8	5/32	1/32	
	DNMG 431	DNMG150404	1/2	3/16	1/64
	DNMG 432	DNMG150408	1/2	3/16	1/32
	DNMG 433	DNMG150412	1/2	3/16	3/64
	DNMG 442	DNMG150608	1/2	1/4	1/32
	DNMG 443	DNMG150612	1/2	1/4	3/64
	DNMG 532	DNMG190408	5/8	3/16	1/32
	DNMG 533	DNMG190412	5/8	3/16	3/64
	DNMG 542	DNMG190608	5/8	1/4	1/32
	DNMG 543	DNMG190612	5/8	1/4	3/64

* **I.C.:** Inscribed Circle
T: Thickness
N.R.: Nose Radius




INSERT TYPE	ANSI CODE	ISO CODE	DIMENSIONS		
			I.C.	T	N.R.
	RNG 32	RNG0903	3/8	1/8	-
	RNG 42	RNG1203	1/2	1/8	-
	RNG 43	RNG1204	1/2	3/16	-
	RNG 63	RNG1904	3/4	3/16	-
	RNMA 32	RNMA0903	3/8	1/8	-
	RNMA 43	RNMA1204	1/2	3/16	-
	RNMA 54	RNMA1506	5/8	1/4	-
	RNMA 64	RNMA1906	3/4	1/4	-
	RNMA 84	RNMA2506	1	1/4	-
	RNMA 86	RNMA2509	1	3/8	-
	RNMG 32	RNMG0903	3/8	1/8	-
	RNMG 43	RNMG1204	1/2	3/16	-
	RNMG 54	RNMG1506	5/8	1/4	-
	RNMG 64	RNMG1906	3/4	1/4	-
	RNMG 84	RNMG2506	1	1/4	-
	RNMG 86	RNMG2509	1	3/8	-
	RNMG 106	RNMG3109	1-1/4	3/8	-
	RPG 42	RPG1203	1/2	1/8	-
	SCMT 32.51	SCMT09T304	3/8	5/32	1/64
	SCMT 32.52	SCMT09T308	3/8	5/32	1/32
	SCMT 431	SCMT120404	1/2	3/16	1/64
	SCMT 432	SCMT120408	1/2	3/16	1/32
	SEKN 42 AFTN	SEKN 1203 AFTN	1/2	1/8	-
	SEKN 43 AFTN	SEKN 1204 AFTN	1/2	3/16	-
	SNG 321	SNG090304	3/8	1/8	1/64
	SNG 322	SNG090308	3/8	1/8	1/32
	SNG 323	SNG090312	3/8	1/8	3/64
	SNG 324	SNG090316	3/8	1/8	1/16
	SNG 420	SNG120301	1/2	1/8	0.005
	SNG 421	SNG120304	1/2	1/8	1/64
	SNG 422	SNG120308	1/2	1/8	1/32
	SNG 423	SNG120312	1/2	1/8	3/64
	SNG 424	SNG120316	1/2	1/8	1/16
	SNG 431	SNG120404	1/2	3/16	1/64
	SNG 432	SNG120408	1/2	3/16	1/32
	SNG 433	SNG120412	1/2	3/16	3/64
	SNG 434	SNG120416	1/2	3/16	1/16
	SNG 532	SNG150408	5/8	3/16	1/32
	SNG 533	SNG150412	5/8	3/16	3/64
	SNG 534	SNG150416	5/8	3/16	1/16
	SNG 631	SNG190404	3/4	3/16	1/64
	SNG 632	SNG190408	3/4	3/16	1/32
	SNG 633	SNG190412	3/4	3/16	3/64
	SNG 634	SNG190416	3/4	3/16	1/16
	SNG 638	SNG190432	3/4	3/16	1/8
SNG 644	SNG190616	3/4	1/4	1/16	





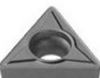

Carbide Inserts





INSERT TYPE	ANSI CODE	ISO CODE	DIMENSIONS			INSERT TYPE	ANSI CODE	ISO CODE	DIMENSIONS		
			I.C.	T	N.R.				I.C.	T	N.R.
	SNMA 322	SNMA090308	3/8	1/8	1/32		SPG 320	SPG090301	3/8	1/8	0.005
	SNMA 432	SNMA120408	1/2	3/16	1/32		SPG 321	SPG090304	3/8	1/8	1/64
	SNMA 433	SNMA120412	1/2	3/16	3/64		SPG 322	SPG090308	3/8	1/8	1/32
	SNMA 434	SNMA120416	1/2	3/16	1/16		SPG 323	SPG090312	3/8	1/8	3/64
	SNMA 543	SNMA150612	5/8	1/4	3/64		SPG 420	SPG120301	1/2	1/8	0.005
	SNMA 633	SNMA190412	3/4	3/16	3/64		SPG 421	SPG120304	1/2	1/8	1/64
	SNMA 643	SNMA190612	3/4	1/4	3/64		SPG 422	SPG120308	1/2	1/8	1/32
	SNMA 644	SNMA190616	3/4	1/4	1/16		SPG 423	SPG120312	1/2	1/8	3/64
	SNMA 866	SNMA250924	1	3/8	3/32		SPG 424	SPG120316	1/2	1/8	1/16
	SNMG 321	SNMA090304	3/8	1/8	1/64	SPG 432	SPG120408	1/2	3/16	1/32	
	SNMG 322	SNMA090308	3/8	1/8	1/32	SPG 433	SPG120412	1/2	3/16	3/64	
	SNMG 323	SNMA090312	3/8	1/8	3/64	SPG 434	SPG120416	1/2	3/16	1/16	
	SNMG 431	SNMA120404	1/2	3/16	1/64	SPG 438	SPG120432	1/2	3/16	1/8	
	SNMG 432	SNMA120408	1/2	3/16	1/32	SPG 532	SPG150408	5/8	3/16	1/32	
	SNMG 433	SNMA120412	1/2	3/16	3/64	SPG 533	SPG150412	5/8	3/16	3/64	
	SNMG 434	SNMA120416	1/2	3/16	1/16	SPG 534	SPG150416	5/8	3/16	1/16	
	SNMG 542	SNMA150608	5/8	1/4	1/32	SPG 631	SPG190404	3/4	3/16	1/64	
	SNMG 543	SNMA150612	5/8	1/4	3/64	SPG 632	SPG190408	3/4	3/16	1/32	
	SNMG 544	SNMA150616	5/8	1/4	1/16	SPG 633	SPG190412	3/4	3/16	3/64	
	SNMG 633	SNMA190412	3/4	3/16	3/64	SPG 634	SPG190416	3/4	3/16	1/16	
	SNMG 642	SNMA190608	3/4	1/4	1/32	SPG 638	SPG190432	3/4	3/16	1/8	
	SNMG 643	SNMA190612	3/4	1/4	3/64		SPMR 321	SPMR090304	3/8	1/8	1/64
	SNMG 644	SNMA190616	3/4	1/4	1/16		SPMR 322	SPMR090308	3/8	1/8	1/32
	SNMG 648	SNMA190632	3/4	1/4	1/8		SPMR 421	SPMR120304	1/2	1/8	1/64
SNMG 866	SNMA250924	1	3/8	3/32	SPMR 422	SPMR120308	1/2	1/8	1/32		
	SNMP 432	SNMP120408	1/2	3/16	1/32	SPMR 423	SPMR120312	1/2	1/8	3/64	
	SNMP 433	SNMP120412	1/2	3/16	3/64		SPU 321	SPU090304	3/8	1/8	1/64
	SNMP 542	SNMP150608	5/8	1/4	1/32		SPU 322	SPU090308	3/8	1/8	1/32
	SNMP 543	SNMP150612	5/8	1/4	3/64		SPU 324	SPU090316	3/8	1/8	1/16
	SNMG 544	SNMP150616	5/8	1/4	1/16		SPU 421	SPU120304	1/2	1/8	1/64
	SNMG 642	SNMP190608	3/4	1/4	1/32		SPU 422	SPU120308	1/2	1/8	1/32
	SNMG 643	SNMP190612	3/4	1/4	3/64		SPU 423	SPU120312	1/2	1/8	3/64
SNMG 644	SNMP190616	3/4	1/4	1/16	SPU 424		SPU120316	1/2	1/8	1/16	
	SNU 321	SNU090304	3/8	1/8	1/64	SPU 431	SPU120404	1/2	3/16	1/64	
	SNU 322	SNU090308	3/8	1/8	1/32	SPU 432	SPU120408	1/2	3/16	1/32	
	SNU 422	SNU120308	1/2	1/8	1/32	SPU 433	SPU120412	1/2	3/16	3/64	
	SNU 423	SNU120312	1/2	1/8	3/64	SPU 434	SPU120416	1/2	3/16	1/16	
	SNU 424	SNU120316	1/2	1/8	1/16	SPU 533	SPU150412	5/8	3/16	3/64	
	SNU 432	SNU120408	1/2	3/16	1/32	SPU 534	SPU150416	5/8	3/16	1/16	
	SNU 433	SNU120412	1/2	3/16	3/64	SPU 632	SPU190408	3/4	3/16	1/32	
	SNU 434	SNU120416	1/2	3/16	1/16	SPU 633	SPU190412	3/4	3/16	3/64	
	SNU 632	SNU190408	3/4	3/16	1/32	SPU 634	SPU190416	3/4	3/16	1/16	
	SNU 633	SNU190412	3/4	3/16	3/64		TCMT 731	TCMT090204	7/32	3/32	1/34
	SNU 634	SNU190416	3/4	3/16	1/16		TCMT 732	TCMT090208	7/32	3/32	1/32
	SNU 643	SNU190612	3/4	1/4	3/64		TCMT 21.51	TCMT110204	1/4	3/32	1/64
SNU 644	SNU190616	3/4	1/4	1/16	TCMT 21.52		TCMT110208	1/4	3/32	1/32	
					TCMT 32.51		TCMT16T304	3/8	5/32	1/64	
					TCMT 32.52	TCMT16T308	3/8	5/32	1/32		
					TCMT 432	TCMT220408	1/2	3/16	1/32		

INSERT TYPE	ANSI CODE	ISO CODE	DIMENSIONS		
			I.C.	T	N.R.
	TDGW 21.51	TDGW110204	1/4	3/32	1/64
	TDGW 21.52	TDGW110208	1/4	3/32	1/32
	TDGW 321	TDGW160304	3/8	1/8	1/64
	TDGW 322	TDGW160308	3/8	1/8	1/32
	TDGW 431	TDGW160404	1/2	3/16	1/64
	TDGW 432	TDGW160408	1/2	3/16	1/32
	TNG 220	TNG110301	1/4	1/8	0.005
	TNG 221	TNG110304	1/4	1/8	1/64
	TNG 222	TNG110308	1/4	1/8	1/32
	TNG 223	TNG110312	1/4	1/8	3/64
	TNG 320	TNG160301	3/8	1/8	0.005
	TNG 321	TNG160304	3/8	1/8	1/64
	TNG 322	TNG160308	3/8	1/8	1/32
	TNG 323	TNG160312	3/8	1/8	3/64
	TNG 324	TNG160316	3/8	1/8	1/16
	TNG 331	TNG160404	3/8	3/16	1/64
	TNG 332	TNG160408	3/8	3/16	1/32
	TNG 333	TNG160412	3/8	3/16	3/64
	TNG 334	TNG160416	1/2	3/16	1/16
	TNG 430	TNG220401	1/2	3/16	0.005
	TNG 431	TNG220404	1/2	3/16	1/64
	TNG 432	TNG220408	1/2	3/16	1/32
	TNG 433	TNG220412	1/2	3/16	3/64
	TNG 434	TNG220416	1/2	3/16	1/16
	TNG 438	TNG220432	1/2	3/16	1/8
	TNG 444	TNG220616	1/2	1/4	1/16
TNG 542	TNG270608	5/8	1/4	1/32	
TNG 544	TNG270616	5/8	1/4	1/16	
	TNMA 222	TNMA110308	1/4	1/8	1/32
	TNMA 321	TNMA160304	3/8	1/8	1/64
	TNMA 322	TNMA160308	3/8	1/8	1/32
	TNMA 323	TNMA160312	3/8	1/8	3/64
	TNMA 324	TNMA160316	3/8	1/8	1/16
	TNMA 332	TNMA160408	3/8	3/16	1/32
	TNMA 333	TNMA160412	3/8	3/16	3/64
	TNMA 431	TNMA220404	1/2	3/16	1/64
	TNMA 432	TNMA220408	1/2	3/16	1/32
	TNMA 433	TNMA220412	1/2	3/16	3/64
	TNMA 434	TNMA220416	1/2	3/16	1/16
	TNMA 438	TNMA220432	1/2	3/16	1/8
	TNMA 542	TNMA270608	5/8	1/4	1/32
	TNMA 543	TNMA270612	5/8	1/4	3/64
TNMA 544	TNMA270616	5/8	1/4	1/16	
TNMA 666	TNMA330924	3/4	3/8	3/32	

* **I.C.:** Inscribed Circle
T: Thickness
N.R.: Nose Radius

INSERT TYPE	ANSI CODE	ISO CODE	DIMENSIONS		
			I.C.	T	N.R.
	TNMG 221	TNMG110304	1/4	1/8	1/64
	TNMG 222	TNMG110308	1/4	1/8	1/32
	TNMG 321	TNMG160304	3/8	1/8	1/64
	TNMG 322	TNMG160308	3/8	1/8	1/32
	TNMG 323	TNMG160312	3/8	1/8	3/64
	TNMG 324	TNMG160316	3/8	1/8	1/16
	TNMG 331	TNMG160404	3/8	3/16	1/64
	TNMG 332	TNMG160408	3/8	3/16	1/32
	TNMG 333	TNMG160412	3/8	3/16	3/64
	TNMG 431	TNMG220404	1/2	3/16	1/64
	TNMG 432	TNMG220408	1/2	3/16	1/32
	TNMG 433	TNMG220412	1/2	3/16	3/64
	TNMG 434	TNMG220416	1/2	3/16	1/16
	TNMG 438	TNMG220432	1/2	3/16	1/8
	TNMG 542	TNMG270608	5/8	1/4	1/32
	TNMG 543	TNMG270612	5/8	1/4	3/64
	TNMG 544	TNMG270616	5/8	1/4	1/16
	TNMG 548	TNMG270632	5/8	1/4	1/8
	TNMG 666	TNMG330924	3/4	3/8	3/32
		TNMP 321	TNMP160304	3/8	1/8
TNMP 322		TNMP160308	3/8	1/8	1/32
TNMP 323		TNMP160312	3/8	1/8	3/64
TNMP 331		TNMP160404	3/8	3/16	1/64
TNMP 332		TNMP160408	3/8	3/16	1/32
TNMP 333		TNMP160412	3/8	3/16	3/64
TNMP 431		TNMP220404	1/2	3/16	1/64
TNMP 432		TNMP220408	1/2	3/16	1/32
TNMP 433		TNMP220412	1/2	3/16	3/64
TNMP 434		TNMP220416	1/2	3/16	1/16
TNMG 543	TNMP270612	5/8	1/4	3/64	
TNMG 544	TNMP270616	5/8	1/4	1/16	
	TNU 221	TNU110304	1/4	1/8	1/64
	TNU 222	TNU110308	1/4	1/8	1/32
	TNU 321	TNU160304	3/8	1/8	1/64
	TNU 322	TNU160308	3/8	1/8	1/32
	TNU 323	TNU160312	3/8	1/8	3/64
	TNU 324	TNU160316	3/8	1/8	1/16
	TNU 332	TNU160408	3/8	3/16	1/32
	TNU 333	TNU160412	3/8	3/16	3/64
	TNU 334	TNU160416	3/8	3/16	1/16
	TNU 431	TNU220404	1/2	3/16	1/64
	TNU 432	TNU220408	1/2	3/16	1/32
	TNU 433	TNU220412	1/2	3/16	3/64
	TNU 434	TNU220416	1/2	3/16	1/16
	TNU 444	TNU220616	1/2	1/4	1/16
	TNU 542	TNU270608	5/8	1/4	1/32
	TNU 544	TNU270616	5/8	1/4	1/16

INSERT TYPE	ANSI CODE	ISO CODE	DIMENSIONS		
			I.C.	T	N.R.
	TPG 220	TPG110301	1/4	1/8	0.000
	TPG 221	TPG110304	1/4	1/8	1/64
	TPG 222	TPG110308	1/4	1/8	1/32
	TPG 320	TPG160301	3/8	1/8	0.000
	TPG 321	TPG160304	3/8	1/8	1/64
	TPG 322	TPG160308	3/8	1/8	1/32
	TPG 323	TPG160312	3/8	1/8	3/64
	TPG 324	TPG160316	3/8	1/8	1/16
	TPG 328	TPG160332	3/8	1/8	1/8
	TPG 332	TPG160408	3/8	3/16	1/32
	TPG 333	TPG160412	3/8	3/16	3/64
	TPG 430	TPG220401	1/2	3/16	0.000
	TPG 431	TPG220404	1/2	3/16	1/64
	TPG 432	TPG220408	1/2	3/16	1/32
	TPG 433	TPG220412	1/2	3/16	3/64
	TPG 434	TPG220416	1/2	3/16	1/16
	TPG 438	TPG220432	1/2	3/16	1/8
	TPG 532	TPG270408	5/8	3/16	1/32
	TPG 534	TPG270416	5/8	3/16	1/16
	TPG 542	TPG270608	5/8	1/4	1/32
TPG 543	TPG270612	5/8	1/4	3/64	
TPG 544	TPG270616	5/8	1/4	1/16	
	TPGA 221	TPGA110304	1/4	1/8	1/64
	TPGA 222	TPGA110308	1/4	1/8	1/32
	TPGA 321	TPGA160304	3/8	1/8	1/64
	TPGA 322	TPGA160308	3/8	1/8	1/32
	TPGB 21.51	TPGB110204	1/4	3/32	1/64
	TPGB 21.52	TPGB110208	1/4	3/32	1/32
	TPGB 221	TPGB110304	1/4	1/8	1/64
	TPGB 222	TPGB110308	1/4	1/8	1/32
	TPGB 321	TPGB160304	3/8	1/8	1/64
TPGB 322	TPGB160308	3/8	1/8	1/32	
	TPGH 321	TPGH160304	3/8	1/8	1/64
	TPGH 433	TPGH220412	1/2	3/16	3/64
	TPGM 21.51	TPGM110204	1/4	3/32	1/64
	TPGM 21.52	TPGM110208	1/4	3/32	1/32
	TPGM 32.51	TPGM16T304	3/8	5/32	1/64
	TPGM 32.52	TPGM16T308	3/8	5/32	1/32
	TPGM 321	TPGM160304	3/8	1/8	1/64
	TPGM 322	TPGM160308	3/8	1/8	1/32
	TPMR 221	TPMR110304	1/4	1/8	1/64
	TPMR 222	TPMR110308	1/4	1/8	1/32
	TPMR 321	TPMR160304	3/8	1/8	1/64
	TPMR 322	TPMR160308	3/8	1/8	1/32
	TPMR 323	TPMR160312	3/8	1/8	3/64
	TPMR 432	TPMR220408	1/2	3/16	1/32

INSERT TYPE	ANSI CODE	ISO CODE	DIMENSIONS		
			I.C.	T	N.R.
	TPU 221	TPU110304	1/4	1/8	1/64
	TPU 222	TPU110308	1/4	1/8	1/32
	TPU 321	TPU160304	3/8	1/8	1/64
	TPU 322	TPU160308	3/8	1/8	1/32
	TPU 323	TPU160312	3/8	1/8	3/64
	TPU 324	TPU160316	3/8	1/8	1/16
	TPU 431	TPU220404	1/2	3/16	1/64
	TPU 432	TPU220408	1/2	3/16	1/32
	TPU 433	TPU220412	1/2	3/16	3/64
	TPU 434	TPU220416	1/2	3/16	1/16
	TPU 544	TPU270616	5/8	1/4	1/16
	VBMT 331	VBMT160404	3/8	3/16	1/64
	VBMT 332	VBMT160408	3/8	3/16	1/32
	VNMG 331	VNMG160404	3/8	3/16	1/64
	VNMG 332	VNMG160408	3/8	3/16	1/32
	VNMG 333	VNMG160412	3/8	3/16	3/64
	VNMG 431	VNMG220404	1/2	3/16	1/64
	VNMG 432	VNMG220408	1/2	3/16	1/32
	VNMG 433	VNMG220412	1/2	3/16	3/64
	WNMG 431	WNMG080404	1/2	3/16	1/64
	WNMG 432	WNMG080402	1/2	3/16	1/32

* **I.C.:** Inscribed Circle
T: Thickness
N.R.: Nose Radius


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