



USA Made

- \* Performance Guaranteed
- \* Sold in packs of 10 inserts

# Guaranteed Performance, Plus Great Pricing, Equals Amazing Value

AVAILABLE STYLES							
xNMG-VM		TPGH-HF		TPGH		TCGT	
Double-sided insert		Single-sided positive rake peripheral ground insert		Single-sided positive rake peripheral ground insert		Single-sided positive rake peripheral ground insert	
Offers a wide range of chip control at medium feeds		High positive cutting land		Strong cutting edge for reliability		Broad chipbreaking range	
Can be used in most materials		Broad chipbreaking range		Broad chipbreaking range		Good edge toughness	
Negative-land geometry for general purpose turning		Designed for high feed applications					
Application Range	Feed: .008" - .024" DOC: .090" - .200"	Application Range	Feed: .010" - .035" DOC: .025" - .090"	Application Range	Feed: .008" - .020" DOC: .020" - .112"	Application Range	Feed: .005" - .047" DOC: .047" - .189"

AVAILABLE GRADES			
Grade	ISO Class	Industry Class	Description
<b>C2VAL</b> Roughing to Semi-Finishing	K10-K25 N05-N15 S10-S20	C2	C2VAL is an uncoated, unalloyed grade with good abrasive wear resistance. Designed for medium to rough turning of cast iron, non-ferrous materials, and high temperature alloys.
<b>C5CVAL</b> Roughing to Semi-Finishing	P20-P35	C5 C6	C5CVAL has a multi-layered TiN/TiC/TiCN/TiN coating over an alloyed, cobalt-rich substrate. Offers a good balance of wear resistance and toughness. For general purpose to heavy roughing of carbon and alloy steels at medium speeds and feeds. Can withstand light interruptions.

TiN

TiCN

TiC

TiN

Substrate

		Part Number	Sale Price	
			C2VAL	C5CVAL
<b>NEGATIVE TURNING</b> with chip control, for lock pin fastening systems				
<b>CNMG-VM</b> Medium Machining 	80° Diamond	CNMG 432-VM	3.01	3.57
		CNMG 433-VM	3.01	3.57
		CNMG 543-VM	-	6.45
		CNMG 643-VM	-	7.89
<b>SNMG-VM</b> Medium Machining 	Square	SNMG 432-VM	2.89	3.46
		SNMG 543-VM	-	5.66
		SNMG 643-VM	-	7.33
<b>TNMG-VM</b> Medium Machining 	Triangle	TNMG 321-VM	2.04	2.58
		TNMG 322-VM	2.04	2.58
		TNMG 332-VM	2.49	3.03
		TNMG 431-VM	3.62	4.35
		TNMG 432-VM	3.62	4.35
		TNMG 433-VM	3.62	4.35
		TNMG 543-VM	-	7.36
	TNMG 544-VM	-	7.36	

		Part Number	Sale Price	
			C2VAL	C5CVAL
<b>POSITIVE TURNING</b> with chip control, for screw fastening systems				
<b>TCGT</b> Light Machining 	Triangle	TCGT 21.50	3.45	4.64
		TCGT 21.51	3.45	4.64
		TCGT 21.52	3.45	4.64
		TCGT 221	3.79	4.21
		TCGT 222	3.79	4.21
		TCGT 321	4.34	4.96
		TCGT 322	4.34	4.96
		TCGT 323	4.34	4.96
		TCGT 32.51	4.21	5.09
		TCGT 32.52	4.21	5.09
		TCGT 431	5.19	6.70
		TCGT 432	5.19	6.70
	TCGT 433	5.19	6.70	
<b>TPGH</b> Medium Machining 	Triangle	TPGH 21.51	3.45	4.64
		TPGH 21.52	3.45	4.64
<b>TPGH-HF</b> High Feed Finishing 	Triangle	TPGH 321-HF	4.34	4.96
		TPGH 322-HF	4.34	4.96
		TPGH 32.51-HF	4.98	5.72
		TPGH 32.52-HF	4.98	5.72

Distributed By: