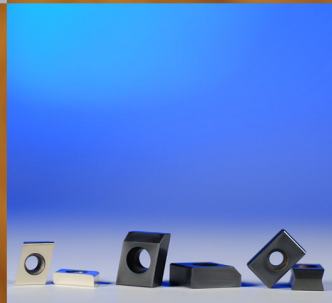




ARM Tooling Systems





ARM Tooling Systems

ARM Tooling Systems specializes in the manufacturing and engineering of carbide and specialty tooling.

ARM Tooling Systems manufactures quality cutting tools and cutters to meet our customers ever changing requirements.

ARM Tooling Systems commitment to provide customers with the best price, quality, and service has allowed ATS to remain a dominant force throughout the global supply chain.



ARM Tooling Systems
2453 John B Ave.
Warren, MI 48091

MMBDC# 01665-1999-SM

Phone: (586) 759-5677
Fax: (586) 754-1653
Toll Free: 1 (877) 258-7177

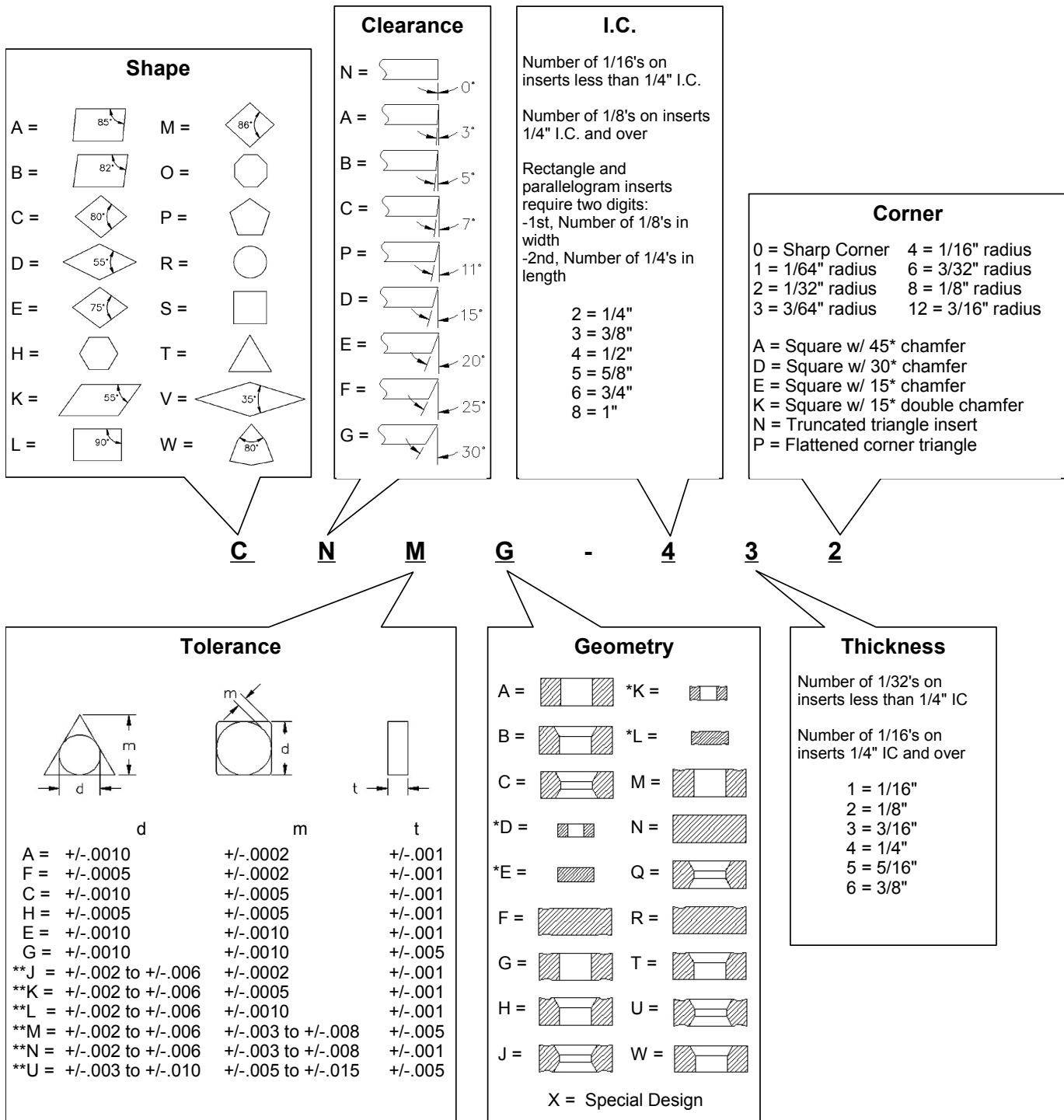
Contents

<u>Insert Nomenclature</u>	4-5	
ANSI		4
ISO		5
<u>Grades</u>	6-8	
Steel		6
Stainless Steel		7
Cast Iron		8
<u>Chip Breakers</u>	9-10	
Application Range		9
Description		10
<u>Negative Turning Inserts</u>	11-42	
For Cutting Steel		11-21
For Cutting Stainless Steel		22-31
For Cutting Cast Iron		32-42
<u>Positive Turning Inserts</u>	43-57	
For Cutting Steel		43-47
For Cutting Stainless Steel		48-52
For Cutting Cast Iron		53-57
<u>Index</u>	58-59	

Customer Service

To place an order or inquire about product availability & pricing, please call our offices at (586) 759-5677, FAX us at (586) 754-1653 or eMail us at Support@ARMToolingSystems.com

Insert Nomenclature - ANSI



* Smaller than 1/4" I.C.

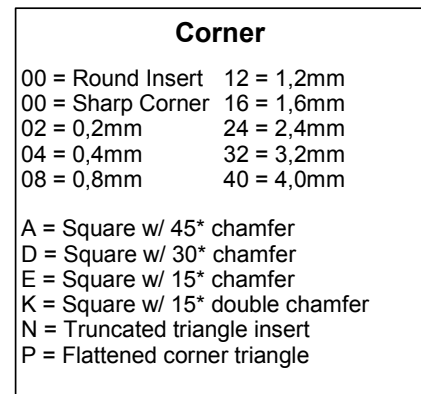
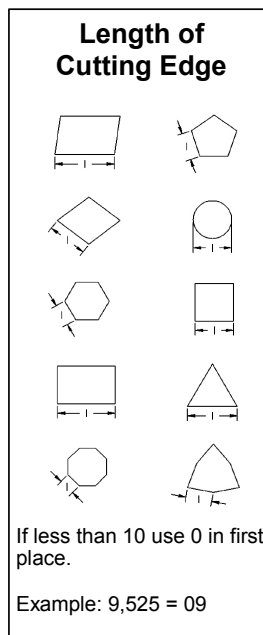
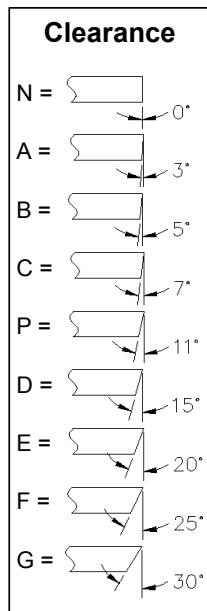
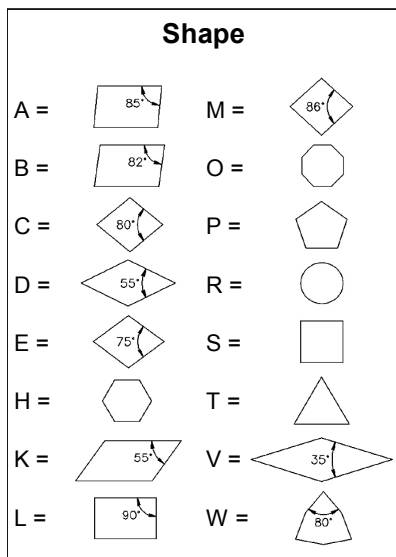
** Exact tolerance is determined by the size of the insert.

Geometry:

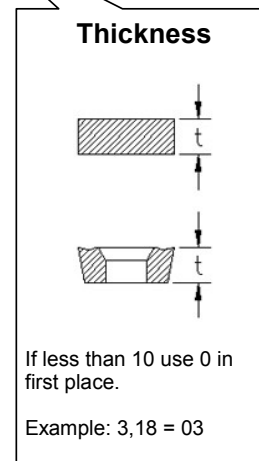
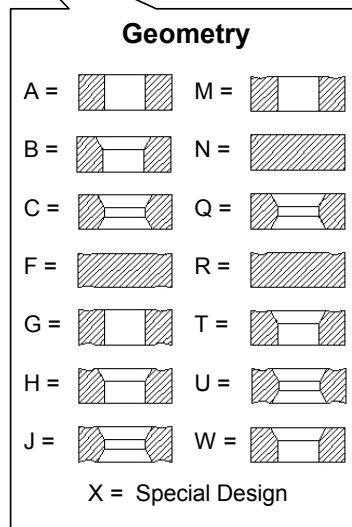
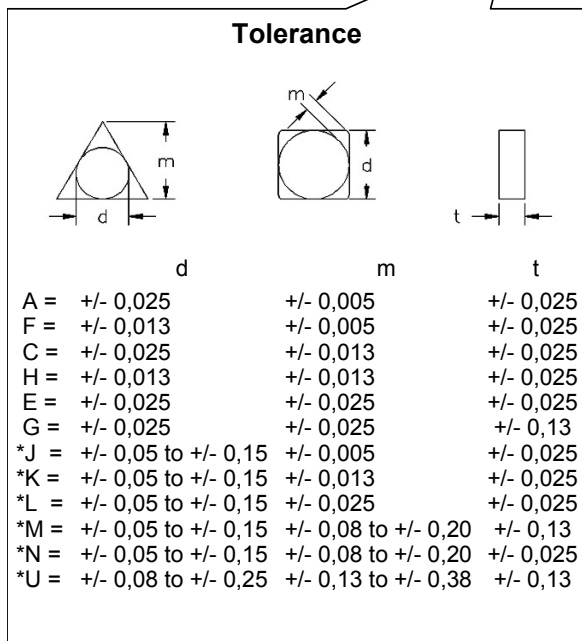
B, C, H, J - countersink is between 70 - 90 degrees.

Q, T, U, W - countersink is between 40 - 60 degrees.

Insert Nomenclature - ISO



C N M G - 12 04 08



* Exact tolerance is determined by the size of the insert.

Geomtry:

B, C, H, J - countersink is between 70 - 90 degrees.

Q, T, U, W - countersink is between 40 - 60 degrees.

Grades for Steel

Steel	P	P05	P10	P15	P20	P25	P30	P35	P40	P45	P50	
		C8	C7 (Light Finishing)			C6 (Semi-Finishing)			C5 (General)			
		BC75										
						BC20N						
						BP93						
							BC30					
							BC20					

CVD Coated Grades

ISO

Machining Condition/Application

BC75	P05 ~ P15	- For high speed machining of steel. - Optimal for high speed machining of steel due to the combination of high hardness substrate and CVD coating.
BC20N	P15 ~ P30	- Medium to roughing for steel. - Combining excellent fracture resistance substrate with chipping resistance and heat resistance increased stability.
BC30	P25 ~ P35	- For medium to roughing, intermittent cutting of steel and stainless steel. - Combination of toughest substrate and coating having superior chipping resistance provide wide coverage.
BC20	P25 ~ P40	- For high speed machining of steel. - Optimal for high speed machining of steel due to the combination of high hardness substrate and CVD coating.

PVD Coated Grades

ISO

Machining Condition/Application

BP93	P20 ~ P30	- For medium to roughing, interrupted turning of steel. - Toughest sub-micron substrate with PVD TiAlN guarantee superior property of prevent build-up edge, thus extending and consistent tool life can be acquired.
------	-----------	--

Grades for Stainless Steel

Stainless Steel	M	M05	M10	M15	M20	M25	M30	M35	M40	M45	M50	
		BP90										
		BC92										
						BC30						
		BP93										

CVD Coated Grades

ISO

Machining Condition/Application

BC92

M10 ~ M20

- For high speed cutting of stainless steel.
- Matching of special substrate having excellent thermal stability and CVD coating having superior chipping resistance provide longer tool life.

BC30

M15 ~ M25

- For medium to roughing, intermittent cutting of steel and stainless steel.
- Combination of toughest substrate and coating having superior chipping resistance provide wide coverage.

PVD Coated Grades

ISO

Machining Condition/Application

BP90

M01 ~ M10

- For high speed machining of difficult-to-cut material and stainless steel.
- Hard coating guarantees pro-longed tool life at difficult-to-cut material cutting.
- K-Gold coating.

BP93

M25 ~ M40

- For medium to roughing, interrupted turning of stainless steel.
- Toughest sub-micron substrate with PVD TiAlN guarantee superior property of prevent build-up edge, thus extending and consistent tool life can be acquired.

Grades for Cast Iron

Cast Iron	K	K05	K10	K15	K20	K25	K30	K35	K40	K45	K50	
		C4	C3 (Semi-Finishing)			C2 (General)		C1 (Roughing)				
		BCK35										
		BCK65										
		BCK55										
		BCK45										

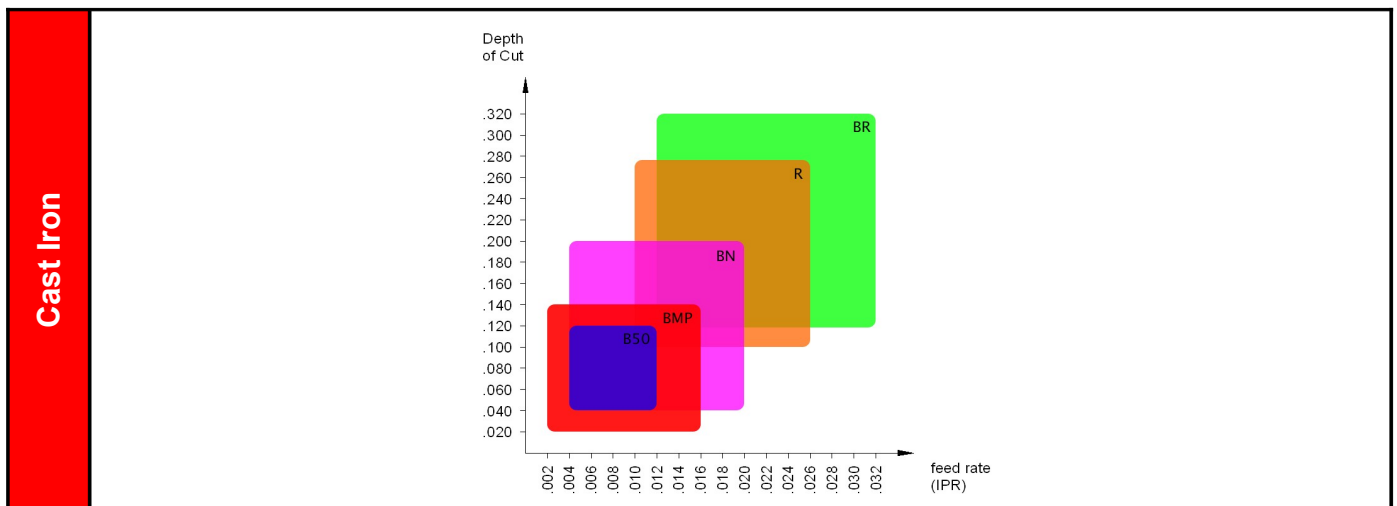
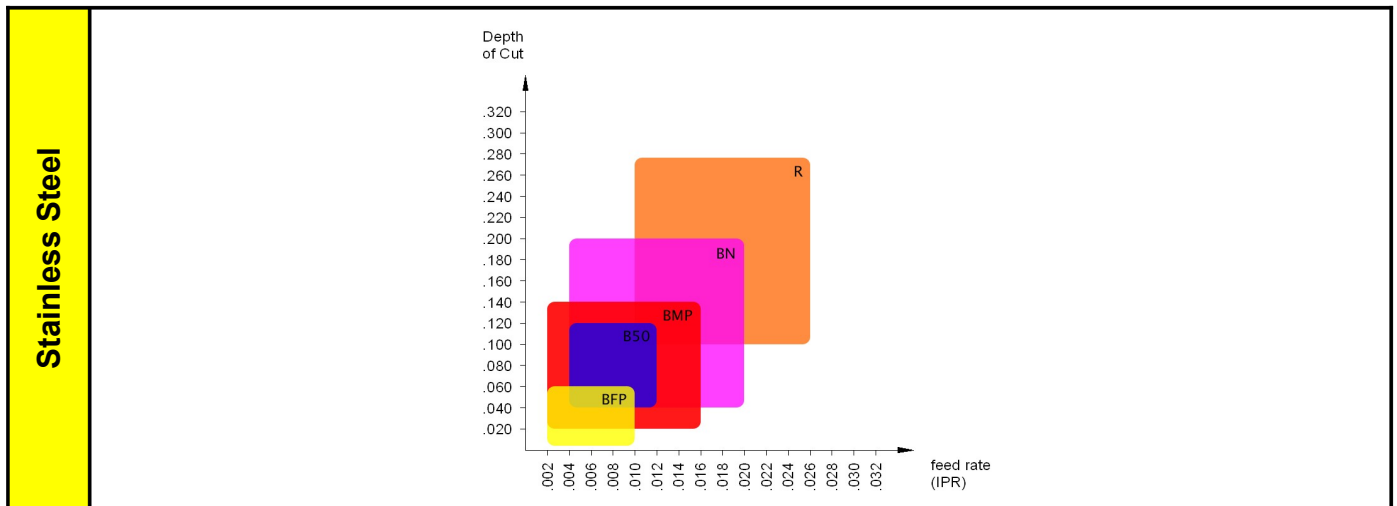
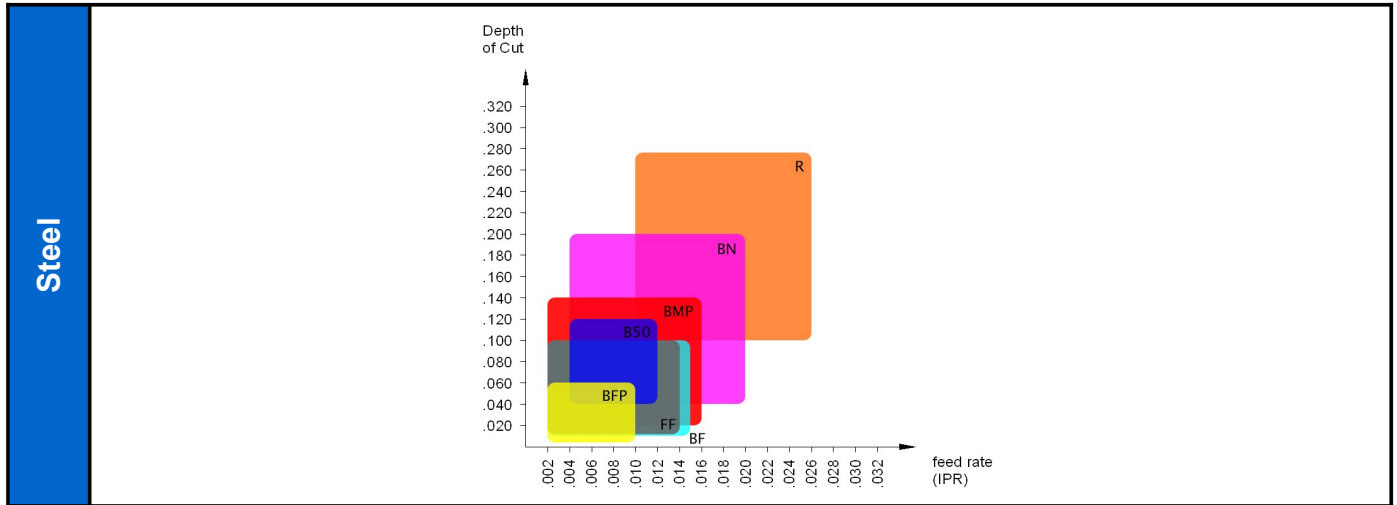
CVD Coated Grades

ISO

Machining Condition/Application

BCK35	K01 ~ K10	• For high speed cutting of cast iron. • Combination of hard substrate and thick CVD provide excellent wear resistance.
BCK65	K05 ~ K15	• For general cutting for gray cast iron & ductile cast iron. • Tough substrate and improved adhesion of thick coating show superior wear resistance.
BCK55	K10 ~ K15	• For general, high effective cutting of gray cast iron and ductile cast iron. • Combination of tough substrate and thick CVD coating provide wide coverage of cast iron machining.
BCK45	K10 ~ K20	• For effective cutting of cast iron at interrupted cutting. • Combination of soft substrate and thick CVD coating provide stable cutting without breakage.

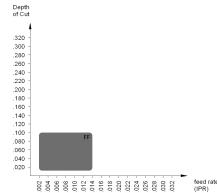
Chip Breakers for Turning



Chip Breakers for Turning

For Finish Cutting

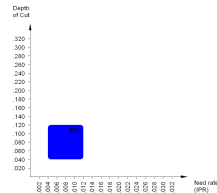
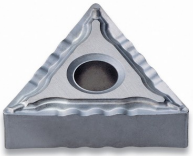
FF



- Good chip control quality on varied depth of cut.
- Excellent cutting edge strength has been acquired due to the special chip breaker.

- Recommended depth of cut (inch): .012~.100
- Recommended feed rate (IPR): .002~.014

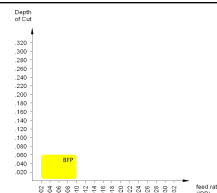
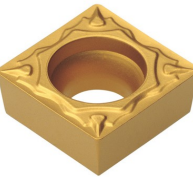
BF



- Excellent chip control in varied depth of cut cutting.
- Strong cutting edge toughness due to special design.

- Recommended depth of cut (inch): .010~.100
- Recommended feed rate (IPR): .002~.015

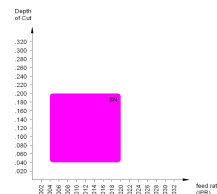
BFP



- Excellent chip control at shallow depth of cut and low feed.
- Excellent surface finish of work piece due to reduced cutting force.
- Suitable for fine boring.
- Recommended depth of cut (inch): .004~.060
- Recommended feed rate (IPR): .002~.010

For Medium Cutting

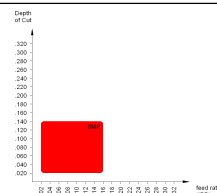
BN



- Wide available chip control range from medium-finishing to medium-roughing
- Suitable chip breaker for CNC machining.

- Recommended depth of cut (inch): .040~.200
- Recommended feed rate (IPR): .004~.020

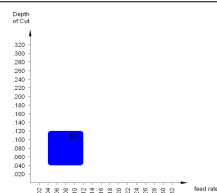
BMP



- Excellent chip control at wide range of cutting conditions.
- Suitable for stainless steel cutting.

- Recommended depth of cut (inch): .020~.140
- Recommended feed rate (IPR): .002~.016

B50

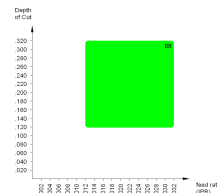
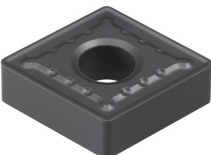


- Suitable for interrupted cutting and cast iron machining.
- Good surface finish due to low cutting force.
- Suitable for both boring and outer diameter turning.

- Recommended depth of cut (inch): .040~.120
- Recommended feed rate (IPR): .004~.012

For Medium to Rough Cutting

BR

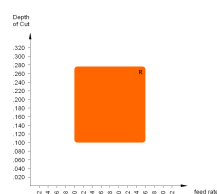


- Suitable for deep depth of cut and high feed cutting of steel and cast iron.
- Suitable for intermittent cutting.

- Recommended depth of cut (inch): .118~.320
- Recommended feed rate (IPR): .012~.032

For Rough Cutting

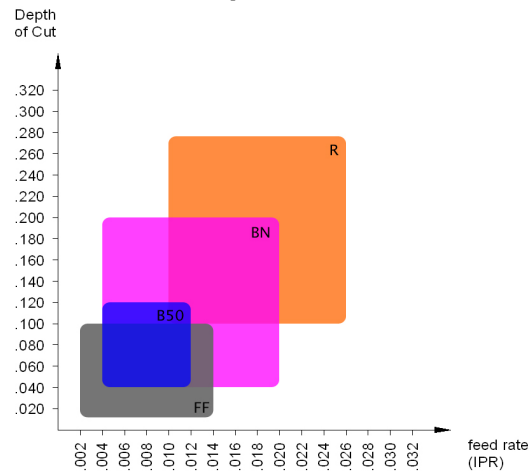
R



- Excellent chip control at deep depth of cut and fast feed rate.
- Strong cutting edge makes excellent cutting performance at intermittent cutting.
- Recommended depth of cut (inch): .100~.276
- Recommended feed rate (IPR): .010~.026

CNMG inserts for Steel

Chipbreakers



Grades

Steel	P	P05	P10	P15	P20	P25	P30	P35	P40	P45	P50	
		C8	C7 (Light Finishing)			C6 (Semi-Finishing)		C5 (General)				
		BC75										
					BC20N							
					BP93							
							BC30					
					BC20							

Available Inserts

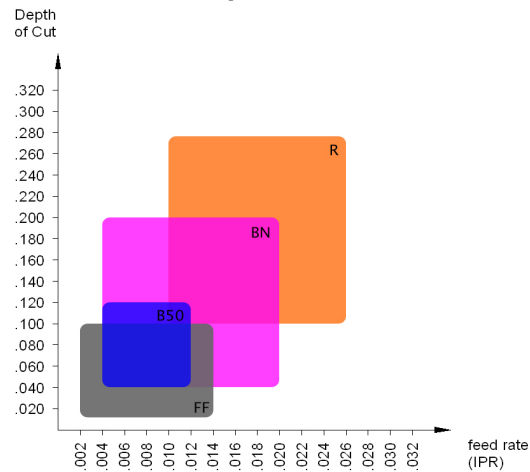
		ANSI	ISO	CVD				PVD
				BC75	BC20N	BC30	BC20	BP93
Finishing		CNMG-321-FF	CNMG-090304-FF	•			•	
		CNMG-322-FF	CNMG-090308-FF	•			•	
		CNMG-431-FF	CNMG-120404-FF	•			•	
		CNMG-432-FF	CNMG-120408-FF	•			•	
		CNMG-433-FF	CNMG-120412-FF				•	
Medium		CNMG-321-BN	CNMG-090304-BN				•	
		CNMG-322-BN	CNMG-090308-BN				•	
		CNMG-431-BN	CNMG-120404-BN			•	•	•
		CNMG-432-BN	CNMG-120408-BN			•	•	•
		CNMG-433-BN	CNMG-120412-BN			•	•	
		CNMG-541-BN	CNMG-160604-BN					
		CNMG-542-BN	CNMG-160608-BN			•	•	
		CNMG-543-BN	CNMG-160616-BN				•	
		CNMG-642-BN	CNMG-190608-BN					
		CNMG-643-BN	CNMG-190612-BN				•	

CNMG inserts for Steel (cont.)

		ANSI	ISO	CVD				PVD
				BC75	BC20N	BC30	BC20	BP93
Medium		CNMG-431-B50	CNMG-120404-B50	•	•	•	•	
		CNMG-432-B50	CNMG-120408-B50	•	•	•	•	•
		CNMG-433-B50	CNMG-120412-B50	•	•	•	•	
		CNMG-542-B50	CNMG-160608-B50	•		•		
		CNMG-543-B50	CNMG-160612-B50		•		•	
		CNMG-641-B50	CNMG-190604-B50	•	•	•	•	
		CNMG-642-B50	CNMG-190608-B50	•	•	•	•	
		CNMG-643-B50	CNMG-190612-B50	•	•	•		
		CNMG-644-B50	CNMG-190616-B50	•	•	•	•	
Roughing		CNMG-432-R	CNMG-120408-R	•	•	•	•	
		CNMG-433-R	CNMG-120412-R	•	•	•	•	
		CNMG-434-R	CNMG-120416-R					
		CNMG-542-R	CNMG-160608-R		•		•	
		CNMG-543-R	CNMG-160612-R	•	•	•	•	
		CNMG-544-R	CNMG-160616-R	•				
		CNMG-546-R	CNMG-160624-R					
		CNMG-642-R	CNMG-190608-R		•		•	
		CNMG-643-R	CNMG-190612-R		•		•	
		CNMG-644-R	CNMG-190616-R	•	•	•	•	
		CNMG-646-R	CNMG-190624-R					
		CNMG-866-R	CNMG-250924-R					

DNMG inserts for Steel

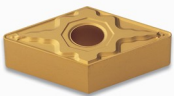
Chipbreakers



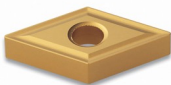
Grades

Steel	P	P05	P10	P15	P20	P25	P30	P35	P40	P45	P50	
		C8	C7 (Light Finishing)			C6 (Semi-Finishing)		C5 (General)				
		BC75										
					BC20N							
						BP93						
							BC30					
						BC20						

Available Inserts

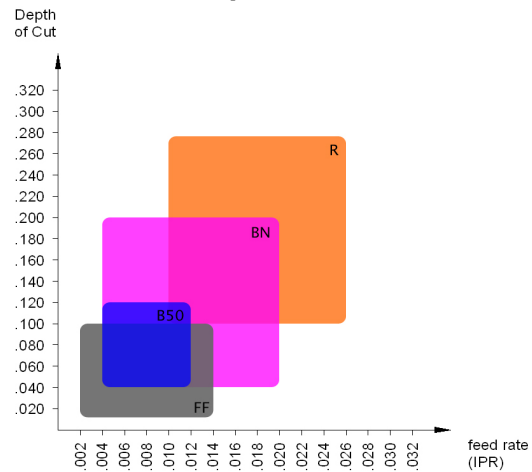
		ANSI	ISO	CVD				PVD
				BC75	BC20N	BC30	BC20	BP93
Finishing		DNMG-330.5-FF	DNMG-110402-FF		•			
		DNMG-331-FF	DNMG-110404-FF		•			
		DNMG-332-FF	DNMG-110408-FF		•			
		DNMG-431-FF	DNMG-150404-FF		•			
		DNMG-432-FF	DNMG-150408-FF		•			
		DNMG-433-FF	DNMG-150412-FF					
		DNMG-441-FF	DNMG-150604-FF	•	•			
		DNMG-442-FF	DNMG-150608-FF	•	•			
		DNMG-443-FF	DNMG-150612-FF		•			
Medium		DNMG-331-BN	DNMG-110404-BN				•	
		DNMG-332-BN	DNMG-110408-BN				•	
		DNMG-333-BN	DNMG-110412-BN				•	
		DNMG-431-BN	DNMG-150404-BN				•	
		DNMG-432-BN	DNMG-150408-BN			•	•	
		DNMG-433-BN	DNMG-150412-BN				•	
		DNMG-441-BN	DNMG-150604-BN			•	•	•
		DNMG-442-BN	DNMG-150608-BN			•	•	•
		DNMG-443-BN	DNMG-150612-BN			•	•	

DNMG inserts for Steel (cont.)

		ANSI	ISO	CVD				PVD
				BC75	BC20N	BC30	BC20	BP93
Medium		DNMG-430.5-B50	DNMG-150402-B50					
		DNMG-431-B50	DNMG-150404-B50			•		
		DNMG-432-B50	DNMG-150408-B50		•	•	•	
		DNMG-433-B50	DNMG-150412-B50					
		DNMG-440.5-B50	DNMG-150602-B50					
		DNMG-441-B50	DNMG-150604-B50	•	•	•	•	
		DNMG-442-B50	DNMG-150608-B50	•	•	•	•	•
		DNMG-443-B50	DNMG-150612-B50					
Roughing		DNMG-432-R	DNMG-150408-R					
		DNMG-433-R	DNMG-150412-R					
		DNMG-434-R	DNMG-150416-R					
		DNMG-442-R	DNMG-150608-R	•	•	•	•	
		DNMG-443-R	DNMG-150612-R	•	•		•	
		DNMG-444-R	DNMG-150616-R		•		•	

SNMG inserts for Steel

Chipbreakers



Grades

Steel	P	P05	P10	P15	P20	P25	P30	P35	P40	P45	P50	
		C8	C7 (Light Finishing)			C6 (Semi-Finishing)		C5 (General)				
		BC75										
					BC20N							
					BP93							
							BC30					
					BC20							

Available Inserts

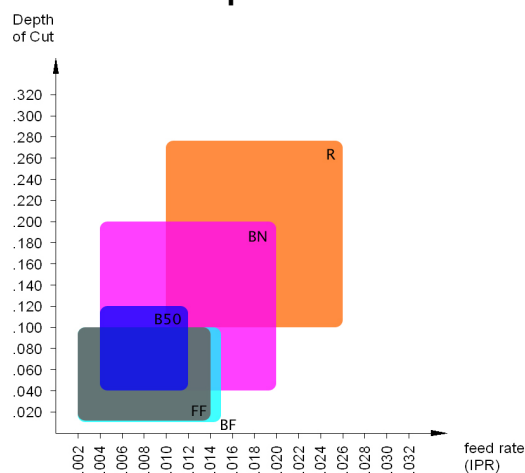
		ANSI	ISO	CVD				PVD
				BC75	BC20N	BC30	BC20	BP93
Finishing		SNMG-321-FF	SNMG-090304-FF		•			
		SNMG-322-FF	SNMG-090308-FF					
		SNMG-431-FF	SNMG-120404-FF		•			
		SNMG-432-FF	SNMG-120408-FF	•	•			
Medium		SNMG-321-BN	SNMG-090304-BN				•	
		SNMG-322-BN	SNMG-090308-BN				•	
		SNMG-431-BN	SNMG-120404-BN			•	•	•
		SNMG-432-BN	SNMG-120408-BN			•	•	•
		SNMG-433-BN	SNMG-120412-BN			•	•	•
		SNMG-643-BN	SNMG-190612-BN					

SNMG inserts for Steel (cont.)

	ANSI	ISO	CVD				PVD
			BC75	BC20N	BC30	BC20	BP93
Medium 	SNMG-322-B50	SNMG-090308-B50		•	•	•	
	SNMG-431-B50	SNMG-120404-B50	•	•	•	•	
	SNMG-432-B50	SNMG-120408-B50	•	•	•	•	•
	SNMG-433-B50	SNMG-120412-B50		•	•	•	
	SNMG-434-B50	SNMG-120416-B50			•		
	SNMG-542-B50	SNMG-150608-B50			•		
	SNMG-543-B50	SNMG-150612-B50		•		•	
	SNMG-544-B50	SNMG-150616-B50		•		•	
	SNMG-642-B50	SNMG-190608-B50	•	•	•	•	
	SNMG-643-B50	SNMG-190612-B50	•	•	•	•	
	SNMG-644-B50	SNMG-190616-B50	•	•	•	•	
	SNMG-854-B50	SNMG-250716-B50	•				
	SNMG-856-B50	SNMG-250724-B50					
Roughing 	SNMG-432-R	SNMG-120408-R					
	SNMG-433-R	SNMG-120412-R	•	•			
	SNMG-434-R	SNMG-120416-R					
	SNMG-542-R	SNMG-150608-R	•	•	•	•	
	SNMG-543-R	SNMG-150612-R		•	•	•	
	SNMG-544-R	SNMG-150616-R					
	SNMG-546-R	SNMG-150624-R					
	SNMG-642-R	SNMG-190608-R	•			•	
	SNMG-643-R	SNMG-190612-R	•	•		•	
	SNMG-644-R	SNMG-190616-R	•	•	•	•	
	SNMG-646-R	SNMG-190624-R					
	SNMG-856-R	SNMG-250724-R					
	SNMG-866-R	SNMG-250924-R		•	•	•	

TNMG inserts for Steel

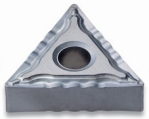
Chipbreakers



Grades

Steel	P	Grades									
		P05	P10	P15	P20	P25	P30	P35	P40	P45	P50
		C8	C7 (Light Finishing)			C6 (Semi-Finishing)		C5 (General)			
		BC75									
						BC20N					
				BP93							
					BC30						
						BC20					

Available Inserts

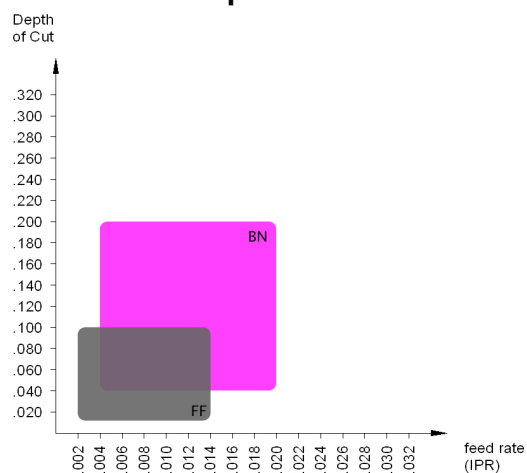
		ANSI	ISO	CVD				PVD
				BC75	BC20N	BC30	BC20	BP93
Finishing		TNMG-221-FF	TNMG-110304-FF		•			
		TNMG-331-FF	TNMG-160404-FF		•			
		TNMG-332-FF	TNMG-160408-FF	•	•			
		TNMG-333-FF	TNMG-160412-FF		•			
		TNMG-431-FF	TNMG-220404-FF		•			
		TNMG-432-FF	TNMG-220408-FF		•			
Finishing		TNMG-221-BF	TNMG-110304-BF					
		TNMG-331-BF	TNMG-160404-BF					
		TNMG-332-BF	TNMG-160408-BF					
		TNMG-333-BF	TNMG-160412-BF					
		TNMG-431-BF	TNMG-220404-BF					
		TNMG-432-BF	TNMG-220408-BF					
Medium		TNMG-222-BN	TNMG-110308-BN				•	
		TNMG-331-BN	TNMG-160404-BN			•	•	
		TNMG-332-BN	TNMG-160408-BN			•	•	•
		TNMG-333-BN	TNMG-160412-BN				•	•
		TNMG-431-BN	TNMG-220404-BN			•	•	
		TNMG-432-BN	TNMG-220408-BN			•	•	
		TNMG-433-BN	TNMG-220412-BN			•	•	

TNMG inserts for Steel (cont.)

	ANSI	ISO	CVD				PVD
			BC75	BC20N	BC30	BC20	BP93
Medium 	TNMG-222-B50	TNMG-110308-B50					
	TNMG-321-B50	TNMG-160304-B50					
	TNMG-322-B50	TNMG-160308-B50			•		
	TNMG-323-B50	TNMG-160312-B50					
	TNMG-324-B50	TNMG-160316-B50					
	TNMG-331-B50	TNMG-160404-B50	•	•	•	•	
	TNMG-332-B50	TNMG-160408-B50	•	•	•	•	•
	TNMG-333-B50	TNMG-160412-B50			•		
	TNMG-334-B50	TNMG-160416-B50					
	TNMG-431-B50	TNMG-220404-B50	•	•	•	•	
	TNMG-432-B50	TNMG-220408-B50	•	•	•	•	
	TNMG-433-B50	TNMG-220412-B50			•		
	TNMG-434-B50	TNMG-220416-B50		•	•	•	
	TNMG-436-B50	TNMG-220424-B50					
	TNMG-542-B50	TNMG-270608-B50		•	•	•	
	TNMG-543-B50	TNMG-270612-B50	•	•	•	•	
	TNMG-544-B50	TNMG-270616-B50	•				
	TNMG-654-B50	TNMG-330716-B50	•	•		•	
	TNMG-666-B50	TNMG-330924-B50					
Roughing 	TNMG-332-R	TNMG-160408-R	•	•			
	TNMG-333-R	TNMG-160412-R		•		•	
	TNMG-432-R	TNMG-220408-R	•	•		•	
	TNMG-433-R	TNMG-220412-R	•				
	TNMG-434-R	TNMG-220416-R		•		•	
	TNMG-542-R	TNMG-270608-R					
	TNMG-543-R	TNMG-270612-R				•	
	TNMG-548-R	TNMG-270632-R					
	TNMG-654-R	TNMG-330716-R					
	TNMG-666-R	TNMG-330924-R					

VNMG inserts for Steel

Chipbreakers



Grades

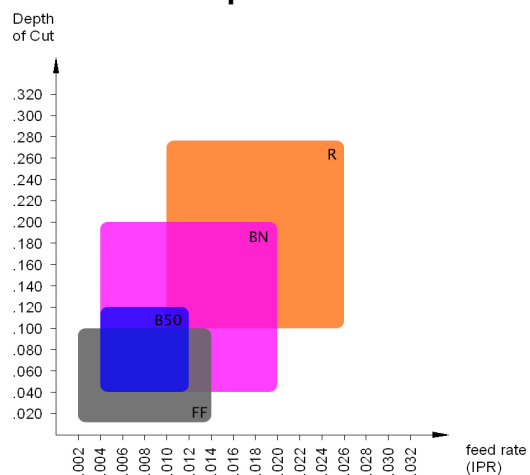
Steel	P	Grades									
		P05	P10	P15	P20	P25	P30	P35	P40	P45	P50
		C8	C7 (Light Finishing)			C6 (Semi-Finishing)		C5 (General)			
		BC75									
					BC20N						
					BP93						
								BC30			
						BC20					

Available Inserts

		ANSI	ISO	CVD				PVD
				BC75	BC20N	BC30	BC20	BP93
Finishing		VNMG-330.5-FF	VNMG-160402-FF		•			
		VNMG-331-FF	VNMG-160404-FF	•	•			
		VNMG-332-FF	VNMG-160408-FF		•			
Medium		VNMG-331-BN	VNMG-160404-BN			•	•	•
		VNMG-332-BN	VNMG-160408-BN			•	•	•
		VNMG-333-BN	VNMG-160412-BN				•	
		VNMG-431-BN	VNMG-220404-BN					
		VNMG-432-BN	VNMG-220408-BN					

WNMG inserts for Steel

Chipbreakers



Grades

Steel	P	P05	P10	P15	P20	P25	P30	P35	P40	P45	P50	
		C8	C7 (Light Finishing)			C6 (Semi-Finishing)		C5 (General)				
		BC75										
					BC20N							
					BP93							
					BC30							
					BC20							

Available Inserts

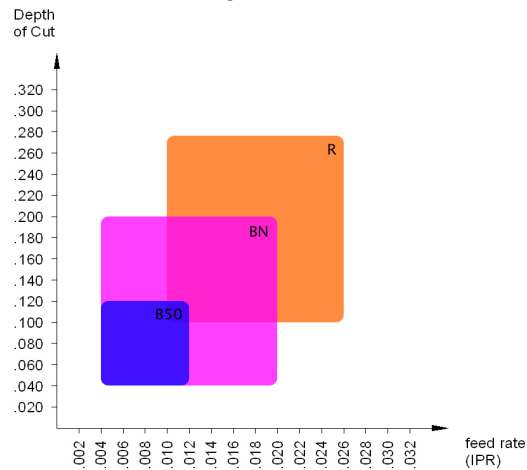
		ANSI	ISO	CVD				PVD
				BC75	BC20N	BC30	BC20	BP93
Finishing		WNMG-331-FF	WNMG-060404-FF	•	•			
		WNMG-332-FF	WNMG-060408-FF	•	•			
		WNMG-431-FF	WNMG-080404-FF	•	•			
		WNMG-432-FF	WNMG-080408-FF		•			
Medium		WNMG-331-BN	WNMG-060404-BN				•	
		WNMG-332-BN	WNMG-060408-BN			•	•	
		WNMG-333-BN	WNMG-060412-BN				•	
		WNMG-431-BN	WNMG-080404-BN			•	•	
		WNMG-432-BN	WNMG-080408-BN			•	•	•
		WNMG-433-BN	WNMG-080412-BN			•	•	

WNMG inserts for Steel (cont.)

		Available Inserts						
		ANSI	ISO	CVD				PVD
				BC75	BC20N	BC30	BC20	BP93
Medium		WNMG-431-B50	WNMG-080404-B50					
		WNMG-432-B50	WNMG-080408-B50	●	●	●	●	
		WNMG-433-B50	WNMG-080412-B50					
Roughing		WNMG-332-R	WNMG-060408-R					
		WNMG-333-R	WNMG-060412-R					
		WNMG-432-R	WNMG-080408-R	●	●	●	●	
		WNMG-433-R	WNMG-080412-R	●	●	●	●	
		WNMG-434-R	WNMG-080416-R					

CNMG inserts for Stainless Steel

Chipbreakers



Grades

Stainless Steel	M	M05	M10	M15	M20	M25	M30	M35	M40	M45	M50
		BP90									
		BC92									
		BC30									
		BP93									

Available Inserts

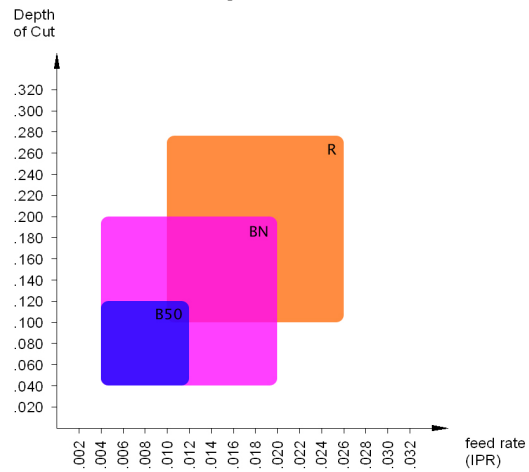
		ANSI	ISO	CVD			PVD	
				BC92	BC30		BP90	BP93
Medium		CNMG-321-BN	CNMG-090304-BN					
		CNMG-322-BN	CNMG-090308-BN					
		CNMG-431-BN	CNMG-120404-BN	•	•			•
		CNMG-432-BN	CNMG-120408-BN	•	•		•	•
		CNMG-433-BN	CNMG-120412-BN		•		•	
		CNMG-541-BN	CNMG-160604-BN					
		CNMG-542-BN	CNMG-160608-BN		•			
		CNMG-543-BN	CNMG-160616-BN				•	
		CNMG-642-BN	CNMG-190608-BN					
		CNMG-643-BN	CNMG-190612-BN				•	
Medium		CNMG-431-B50	CNMG-120404-B50		•			
		CNMG-432-B50	CNMG-120408-B50		•			•
		CNMG-433-B50	CNMG-120412-B50		•			
		CNMG-542-B50	CNMG-160608-B50		•			
		CNMG-543-B50	CNMG-160612-B50					
		CNMG-641-B50	CNMG-190604-B50		•			
		CNMG-642-B50	CNMG-190608-B50		•			
		CNMG-643-B50	CNMG-190612-B50		•			
		CNMG-644-B50	CNMG-190616-B50		•			

CNMG inserts for Stainless Steel (cont.)

	ANSI	ISO	CVD			PVD	
			BC92	BC30		BP90	BP93
Roughing 	CNMG-432-R	CNMG-120408-R		•			
	CNMG-433-R	CNMG-120412-R		•			
	CNMG-434-R	CNMG-120416-R					
	CNMG-542-R	CNMG-160608-R					
	CNMG-543-R	CNMG-160612-R		•			
	CNMG-544-R	CNMG-160616-R					
	CNMG-546-R	CNMG-160624-R					
	CNMG-642-R	CNMG-190608-R					
	CNMG-643-R	CNMG-190612-R					
	CNMG-644-R	CNMG-190616-R		•			
	CNMG-646-R	CNMG-190624-R					
	CNMG-866-R	CNMG-250924-R					

DNMG inserts for Stainless Steel

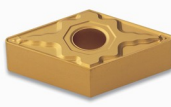
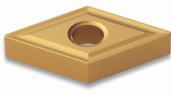
Chipbreakers



Grades

Stainless Steel	M	M05	M10	M15	M20	M25	M30	M35	M40	M45	M50
		BP90									
		BC92									
		BC30									
		BP93									

Available Inserts

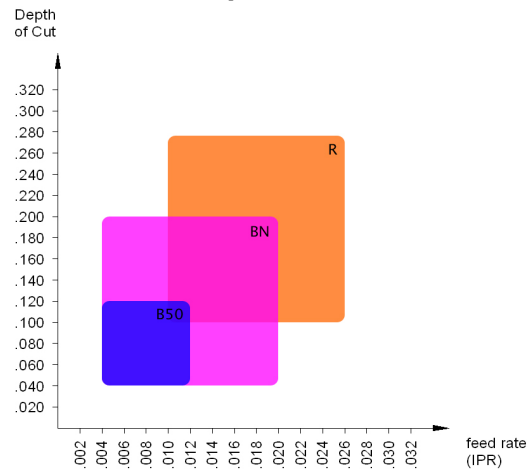
		ANSI	ISO	CVD			PVD	
				BC92	BC30		BP90	BP93
Medium		DNMG-331-BN	DNMG-110404-BN					
		DNMG-332-BN	DNMG-110408-BN					
		DNMG-333-BN	DNMG-110412-BN					
		DNMG-431-BN	DNMG-150404-BN					
		DNMG-432-BN	DNMG-150408-BN		•			
		DNMG-433-BN	DNMG-150412-BN					
		DNMG-441-BN	DNMG-150604-BN	•	•			•
		DNMG-442-BN	DNMG-150608-BN	•	•			•
Medium		DNMG-443-BN	DNMG-150612-BN	•	•			
		DNMG-430.5-B50	DNMG-150402-B50					
		DNMG-431-B50	DNMG-150404-B50		•			
		DNMG-432-B50	DNMG-150408-B50		•			
		DNMG-433-B50	DNMG-150412-B50					
		DNMG-440.5-B50	DNMG-150602-B50					
		DNMG-441-B50	DNMG-150604-B50		•			
		DNMG-442-B50	DNMG-150608-B50		•			•
		DNMG-443-B50	DNMG-150612-B50					

DNMG inserts for Stainless Steel (cont.)

		ANSI	ISO	CVD			PVD	
				BC92	BC30		BP90	BP93
Roughing		DNMG-432-R	DNMG-150408-R					
		DNMG-433-R	DNMG-150412-R					
		DNMG-434-R	DNMG-150416-R					
		DNMG-442-R	DNMG-150608-R		•			
		DNMG-443-R	DNMG-150612-R					
		DNMG-444-R	DNMG-150616-R					

SNMG inserts for Stainless Steel

Chipbreakers



Grades

Stainless Steel	M	M05	M10	M15	M20	M25	M30	M35	M40	M45	M50
		BP90									
		BC92									
		BC30									
		BP93									

Available Inserts

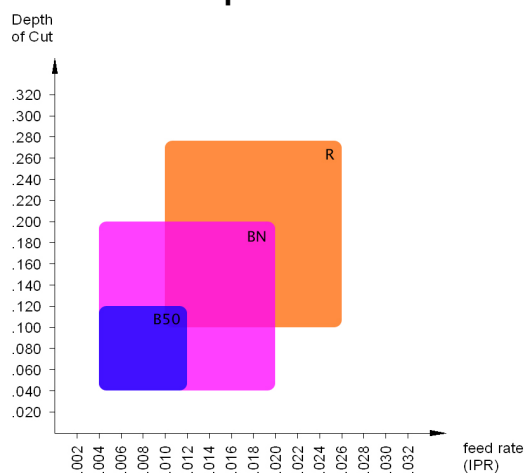
		ANSI	ISO	CVD			PVD	
				BC92	BC30		BP90	BP93
Medium		SNMG-321-BN	SNMG-090304-BN					
		SNMG-322-BN	SNMG-090308-BN					
		SNMG-431-BN	SNMG-120404-BN	•	•			•
		SNMG-432-BN	SNMG-120408-BN	•	•			•
		SNMG-433-BN	SNMG-120412-BN	•	•			•
		SNMG-643-BN	SNMG-190612-BN					
Medium		SNMG-322-B50	SNMG-090308-B50		•			
		SNMG-431-B50	SNMG-120404-B50		•			
		SNMG-432-B50	SNMG-120408-B50	•	•			•
		SNMG-433-B50	SNMG-120412-B50		•			
		SNMG-434-B50	SNMG-120416-B50		•			
		SNMG-542-B50	SNMG-150608-B50		•			
		SNMG-543-B50	SNMG-150612-B50					
		SNMG-544-B50	SNMG-150616-B50					
		SNMG-642-B50	SNMG-190608-B50		•			
		SNMG-643-B50	SNMG-190612-B50		•			
		SNMG-644-B50	SNMG-190616-B50		•			
		SNMG-854-B50	SNMG-250716-B50					
		SNMG-856-B50	SNMG-250724-B50					

SNMG inserts for Stainless Steel (cont.)

	ANSI	ISO	CVD			PVD	
			BC92	BC30		BP90	BP93
Roughing 	SNMG-432-R	SNMG-120408-R					
	SNMG-433-R	SNMG-120412-R					
	SNMG-434-R	SNMG-120416-R					
	SNMG-542-R	SNMG-150608-R		•			
	SNMG-543-R	SNMG-150612-R		•			
	SNMG-544-R	SNMG-150616-R					
	SNMG-546-R	SNMG-150624-R					
	SNMG-642-R	SNMG-190608-R					
	SNMG-643-R	SNMG-190612-R					
	SNMG-644-R	SNMG-190616-R		•			
	SNMG-646-R	SNMG-190624-R					
	SNMG-856-R	SNMG-250724-R					
	SNMG-866-R	SNMG-250924-R		•			

TNMG inserts for Stainless Steel

Chipbreakers



Grades

Stainless Steel	M	M05	M10	M15	M20	M25	M30	M35	M40	M45	M50
		BP90									
			BC92								
				BC30			BP93				

Available Inserts

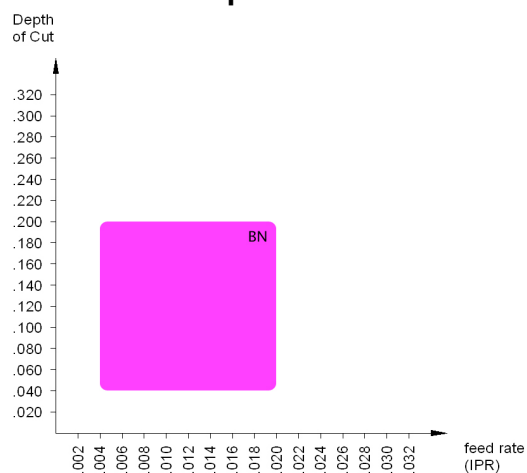
	ANSI	ISO	CVD			PVD	
			BC92	BC30		BP90	BP93
Medium 	TNMG-222-BN	TNMG-110308-BN					
	TNMG-331-BN	TNMG-160404-BN		•			
	TNMG-332-BN	TNMG-160408-BN	•	•			•
	TNMG-333-BN	TNMG-160412-BN					
	TNMG-431-BN	TNMG-220404-BN		•			
	TNMG-432-BN	TNMG-220408-BN		•		•	
	TNMG-433-BN	TNMG-220412-BN		•			

TNMG inserts for Stainless Steel (cont.)

	ANSI	ISO	CVD			PVD	
			BC92	BC30		BP90	BP93
Medium 	TNMG-222-B50	TNMG-110308-B50					
	TNMG-321-B50	TNMG-160304-B50					
	TNMG-322-B50	TNMG-160308-B50		•			
	TNMG-323-B50	TNMG-160312-B50					
	TNMG-324-B50	TNMG-160316-B50					
	TNMG-331-B50	TNMG-160404-B50		•			
	TNMG-332-B50	TNMG-160408-B50		•			
	TNMG-333-B50	TNMG-160412-B50		•			
	TNMG-334-B50	TNMG-160416-B50					
	TNMG-431-B50	TNMG-220404-B50		•			
	TNMG-432-B50	TNMG-220408-B50		•			
	TNMG-433-B50	TNMG-220412-B50		•			
	TNMG-434-B50	TNMG-220416-B50		•			
	TNMG-436-B50	TNMG-220424-B50					
	TNMG-542-B50	TNMG-270608-B50		•			
	TNMG-543-B50	TNMG-270612-B50		•			
	TNMG-544-B50	TNMG-270616-B50					
	TNMG-654-B50	TNMG-330716-B50					
	TNMG-666-B50	TNMG-330924-B50					
Roughing 	TNMG-332-R	TNMG-160408-R					
	TNMG-333-R	TNMG-160412-R					
	TNMG-432-R	TNMG-220408-R					
	TNMG-433-R	TNMG-220412-R					
	TNMG-434-R	TNMG-220416-R					
	TNMG-542-R	TNMG-270608-R					
	TNMG-543-R	TNMG-270612-R					
	TNMG-548-R	TNMG-270632-R					
	TNMG-654-R	TNMG-330716-R					
	TNMG-666-R	TNMG-330924-R					

VNMG inserts for Stainless Steel

Chipbreakers



Grades

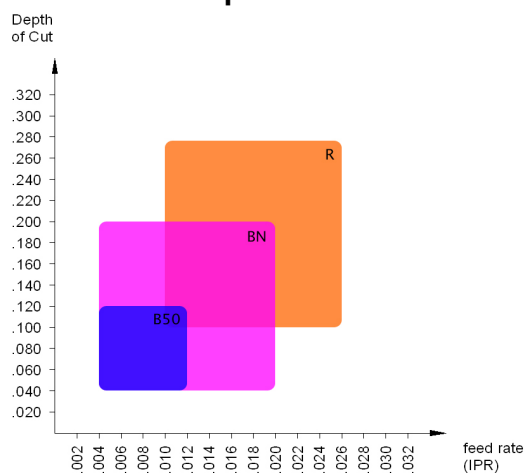
Stainless Steel	M	M05	M10	M15	M20	M25	M30	M35	M40	M45	M50
		BP90									
			BC92								
				BC30			BP93				

Available Inserts

		ANSI	ISO	CVD			PVD	
				BC92	BC30		BP90	BP93
Medium		VNMG-331-BN	VNMG-160404-BN	•	•			•
		VNMG-332-BN	VNMG-160408-BN	•	•			•
		VNMG-333-BN	VNMG-160412-BN					
		VNMG-431-BN	VNMG-220404-BN					
		VNMG-432-BN	VNMG-220408-BN					

WNMG inserts for Stainless Steel

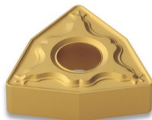
Chipbreakers



Grades

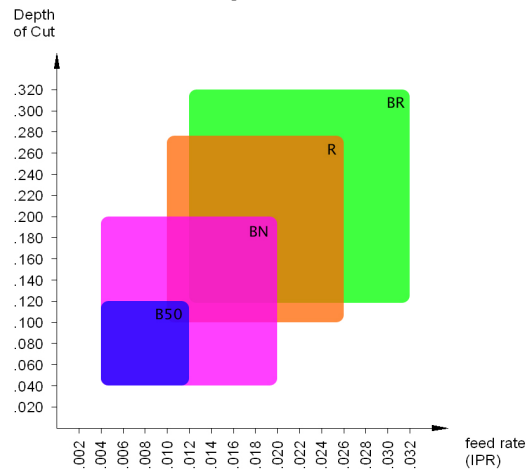
Stainless Steel	M	M05	M10	M15	M20	M25	M30	M35	M40	M45	M50
		BP90									
			BC92								
				BC30			BP93				

Available Inserts

		ANSI	ISO	CVD			PVD	
				BC92	BC30		BP90	BP93
Medium		WNMG-331-BN	WNMG-060404-BN					
		WNMG-332-BN	WNMG-060408-BN		●			
		WNMG-333-BN	WNMG-060412-BN					
		WNMG-431-BN	WNMG-080404-BN	●	●			
		WNMG-432-BN	WNMG-080408-BN	●	●		●	●
		WNMG-433-BN	WNMG-080412-BN		●			
Medium		WNMG-431-B50	WNMG-080404-B50					
		WNMG-432-B50	WNMG-080408-B50		●			
		WNMG-433-B50	WNMG-080412-B50					
Roughing		WNMG-332-R	WNMG-060408-R					
		WNMG-333-R	WNMG-060412-R					
		WNMG-432-R	WNMG-080408-R		●			
		WNMG-433-R	WNMG-080412-R		●			
		WNMG-434-R	WNMG-080416-R					

CNMG inserts for Cast Iron

Chipbreakers



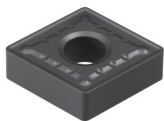
Grades

Cast Iron	K	K05	K10	K15	K20	K25	K30	K35	K40	K45	K50
		C4	C3 (Semi-Finishing)			C2 (General)		C1 (Roughing)			
		BCK35									
		BCK65									
				BCK55							
				BCK45							

Available Inserts

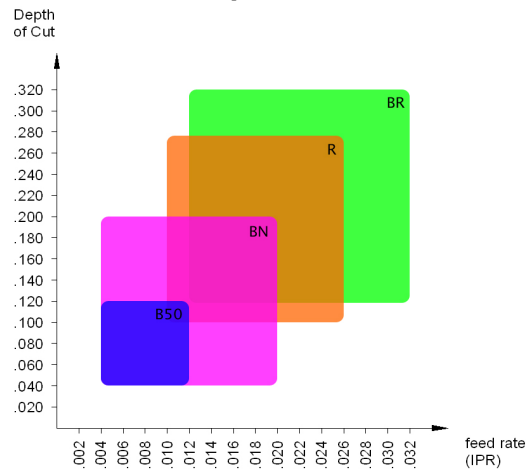
		ANSI	ISO	CVD				PVD
				BCK35	BCK65	BCK55	BCK45	
Medium		CNMG-321-BN	CNMG-090304-BN			•		
		CNMG-322-BN	CNMG-090308-BN			•		
		CNMG-431-BN	CNMG-120404-BN			•	•	
		CNMG-432-BN	CNMG-120408-BN	•		•	•	
		CNMG-433-BN	CNMG-120412-BN			•	•	
		CNMG-541-BN	CNMG-160604-BN					
		CNMG-542-BN	CNMG-160608-BN			•		
		CNMG-543-BN	CNMG-160616-BN			•		
		CNMG-642-BN	CNMG-190608-BN			•		
		CNMG-643-BN	CNMG-190612-BN					
Medium		CNMG-431-B50	CNMG-120404-B50		•			
		CNMG-432-B50	CNMG-120408-B50		•	•	•	
		CNMG-433-B50	CNMG-120412-B50		•			
		CNMG-542-B50	CNMG-160608-B50					
		CNMG-543-B50	CNMG-160612-B50					
		CNMG-641-B50	CNMG-190604-B50					
		CNMG-642-B50	CNMG-190608-B50		•			
		CNMG-643-B50	CNMG-190612-B50		•			
		CNMG-644-B50	CNMG-190616-B50					

CNMG inserts for Cast Iron (cont.)

	ANSI	ISO	CVD				PVD
			BCK35	BCK65	BCK55	BCK45	
Medium to Rounding 	CNMG-432-BR	CNMG-120408-BR	•	•	•	•	
	CNMG-433-BR	CNMG-120412-BR	•	•	•	•	
	CNMG-434-BR	CNMG-120416-BR					
	CNMG-542-BR	CNMG-160608-BR		•	•		
	CNMG-543-BR	CNMG-160612-BR		•	•		
	CNMG-544-BR	CNMG-160616-BR		•			
	CNMG-546-BR	CNMG-160624-BR					
	CNMG-642-BR	CNMG-190608-BR		•	•		
	CNMG-643-BR	CNMG-190612-BR		•	•		
	CNMG-644-BR	CNMG-190616-BR			•		
	CNMG-646-BR	CNMG-190624-BR					
	CNMG-866-BR	CNMG-250924-BR					
Roughing 	CNMG-432-R	CNMG-120408-R					
	CNMG-433-R	CNMG-120412-R					
	CNMG-434-R	CNMG-120416-R					
	CNMG-542-R	CNMG-160608-R					
	CNMG-543-R	CNMG-160612-R					
	CNMG-544-R	CNMG-160616-R					
	CNMG-546-R	CNMG-160624-R					
	CNMG-642-R	CNMG-190608-R					
	CNMG-643-R	CNMG-190612-R					
	CNMG-644-R	CNMG-190616-R					
	CNMG-646-R	CNMG-190624-R					
	CNMG-866-R	CNMG-250924-R					

DNMG inserts for Cast Iron

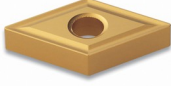
Chipbreakers



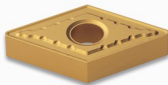
Grades

Cast Iron	K	K05	K10	K15	K20	K25	K30	K35	K40	K45	K50	
		C4	C3 (Semi-Finishing)			C2 (General)		C1 (Roughing)				
		BCK35										
		BCK65										
		BCK55										
		BCK45										

Available Inserts

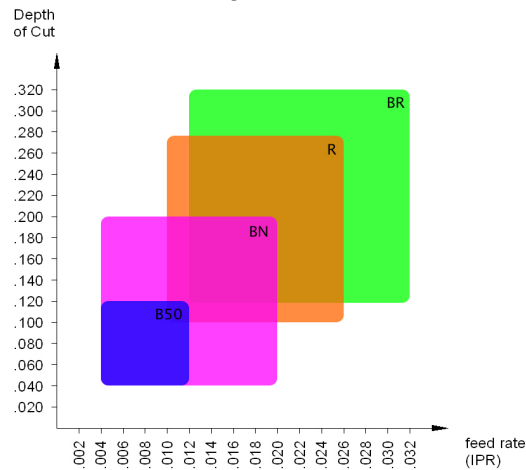
		ANSI	ISO	CVD				PVD
				BCK35	BCK65	BCK55	BCK45	
Medium		DNMG-331-BN	DNMG-110404-BN					
		DNMG-332-BN	DNMG-110408-BN			•		
		DNMG-333-BN	DNMG-110412-BN			•		
		DNMG-431-BN	DNMG-150404-BN			•		
		DNMG-432-BN	DNMG-150408-BN			•		
		DNMG-433-BN	DNMG-150412-BN			•		
		DNMG-441-BN	DNMG-150604-BN			•	•	
		DNMG-442-BN	DNMG-150608-BN	•		•	•	
		DNMG-443-BN	DNMG-150612-BN			•	•	
Medium		DNMG-430.5-B50	DNMG-150402-B50					
		DNMG-431-B50	DNMG-150404-B50					
		DNMG-432-B50	DNMG-150408-B50		•			
		DNMG-433-B50	DNMG-150412-B50					
		DNMG-440.5-B50	DNMG-150602-B50					
		DNMG-441-B50	DNMG-150604-B50		•			
		DNMG-442-B50	DNMG-150608-B50		•			
		DNMG-443-B50	DNMG-150612-B50		•			

DNMG inserts for Cast Iron (cont.)

		ANSI	ISO	CVD				PVD
				BCK35	BCK65	BCK55	BCK45	
Medium to Rounding		DNMG-431-BR	DNMG-150404-BR					
		DNMG-432-BR	DNMG-150408-BR		•			
		DNMG-433-BR	DNMG-150412-BR					
		DNMG-434-BR	DNMG-150416-BR					
		DNMG-441-BR	DNMG-150604-BR					
		DNMG-442-BR	DNMG-150608-BR		•	•	•	
		DNMG-443-BR	DNMG-150612-BR		•	•		
		DNMG-444-BR	DNMG-150616-BR					
Roughing		DNMG-432-R	DNMG-150408-R					
		DNMG-433-R	DNMG-150412-R					
		DNMG-434-R	DNMG-150416-R					
		DNMG-442-R	DNMG-150608-R					
		DNMG-443-R	DNMG-150612-R					
		DNMG-444-R	DNMG-150616-R					

SNMG inserts for Cast Iron

Chipbreakers



Grades

Cast Iron	K	K05	K10	K15	K20	K25	K30	K35	K40	K45	K50	
		C4	C3 (Semi-Finishing)			C2 (General)		C1 (Roughing)				
		BCK35										
		BCK65										
		BCK55										
		BCK45										

Available Inserts

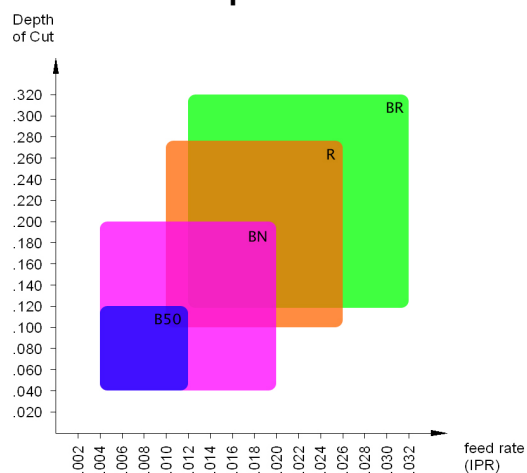
		ANSI	ISO	CVD				PVD
				BCK35	BCK65	BCK55	BCK45	
Medium		SNMG-321-BN	SNMG-090304-BN					
		SNMG-322-BN	SNMG-090308-BN					
		SNMG-431-BN	SNMG-120404-BN			•	•	
		SNMG-432-BN	SNMG-120408-BN	•		•	•	
		SNMG-433-BN	SNMG-120412-BN				•	
		SNMG-643-BN	SNMG-190612-BN					
Medium		SNMG-322-B50	SNMG-090308-B50					
		SNMG-431-B50	SNMG-120404-B50		•			
		SNMG-432-B50	SNMG-120408-B50		•			
		SNMG-433-B50	SNMG-120412-B50		•			
		SNMG-434-B50	SNMG-120416-B50					
		SNMG-542-B50	SNMG-150608-B50					
		SNMG-543-B50	SNMG-150612-B50					
		SNMG-544-B50	SNMG-150616-B50					
		SNMG-642-B50	SNMG-190608-B50		•			
		SNMG-643-B50	SNMG-190612-B50		•			
		SNMG-644-B50	SNMG-190616-B50					
		SNMG-854-B50	SNMG-250716-B50					
		SNMG-856-B50	SNMG-250724-B50					

SNMG inserts for Cast Iron (cont.)

		ANSI	ISO	CVD				PVD
				BCK35	BCK65	BCK55	BCK45	
Medium to Rounding		SNMG-431-BR	SNMG-120404-BR					
		SNMG-432-BR	SNMG-120408-BR		•	•	•	
		SNMG-433-BR	SNMG-120412-BR		•	•	•	
		SNMG-542-BR	SNMG-150608-BR					
		SNMG-543-BR	SNMG-150612-BR					
		SNMG-642-BR	SNMG-190608-BR					
		SNMG-643-BR	SNMG-190612-BR			•		
		SNMG-644-BR	SNMG-190616-BR					
		SNMG-856-BR	SNMG-250724-BR					
		SNMG-866-BR	SNMG-250924-BR					
Roughing		SNMG-432-R	SNMG-120408-R					
		SNMG-433-R	SNMG-120412-R					
		SNMG-434-R	SNMG-120416-R					
		SNMG-542-R	SNMG-150608-R					
		SNMG-543-R	SNMG-150612-R					
		SNMG-544-R	SNMG-150616-R					
		SNMG-546-R	SNMG-150624-R					
		SNMG-642-R	SNMG-190608-R					
		SNMG-643-R	SNMG-190612-R					
		SNMG-644-R	SNMG-190616-R					
		SNMG-646-R	SNMG-190624-R					
		SNMG-856-R	SNMG-250724-R					
		SNMG-866-R	SNMG-250924-R					

TNMG inserts for Cast Iron

Chipbreakers



Grades

Cast Iron	K	K05	K10	K15	K20	K25	K30	K35	K40	K45	K50
		C4	C3 (Semi-Finishing)			C2 (General)		C1 (Roughing)			
		BCK35									
		BCK65									
				BCK55							
				BCK45							

Available Inserts

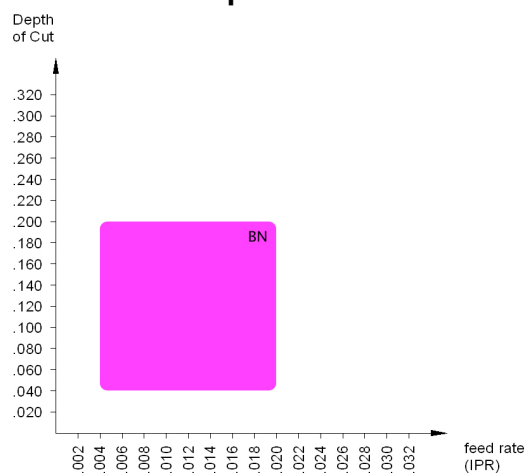
	ANSI	ISO	CVD				PVD
			BCK35	BCK65	BCK55	BCK45	
Medium 	TNMG-222-BN	TNMG-110308-BN			•		
	TNMG-331-BN	TNMG-160404-BN	•		•		
	TNMG-332-BN	TNMG-160408-BN	•		•	•	
	TNMG-333-BN	TNMG-160412-BN				•	
	TNMG-431-BN	TNMG-220404-BN			•		
	TNMG-432-BN	TNMG-220408-BN			•		
	TNMG-433-BN	TNMG-220412-BN					

TNMG inserts for Cast Iron (cont.)

	ANSI	ISO	CVD				PVD
			BCK35	BCK65	BCK55	BCK45	
Medium 	TNMG-222-B50	TNMG-110308-B50					
	TNMG-321-B50	TNMG-160304-B50					
	TNMG-322-B50	TNMG-160308-B50					
	TNMG-323-B50	TNMG-160312-B50					
	TNMG-324-B50	TNMG-160316-B50					
	TNMG-331-B50	TNMG-160404-B50		•			
	TNMG-332-B50	TNMG-160408-B50		•			
	TNMG-333-B50	TNMG-160412-B50					
	TNMG-334-B50	TNMG-160416-B50					
	TNMG-431-B50	TNMG-220404-B50					
	TNMG-432-B50	TNMG-220408-B50		•			
	TNMG-433-B50	TNMG-220412-B50					
	TNMG-434-B50	TNMG-220416-B50					
	TNMG-436-B50	TNMG-220424-B50					
	TNMG-542-B50	TNMG-270608-B50					
	TNMG-543-B50	TNMG-270612-B50					
	TNMG-544-B50	TNMG-270616-B50					
	TNMG-654-B50	TNMG-330716-B50					
	TNMG-666-B50	TNMG-330924-B50					
Medium to Roughing 	TNMG-332-BR	TNMG-160408-BR		•	•	•	
	TNMG-333-BR	TNMG-160412-BR			•		
	TNMG-432-BR	TNMG-220408-BR		•	•		
	TNMG-433-BR	TNMG-220412-BR			•		
	TNMG-434-BR	TNMG-220416-BR					
	TNMG-542-BR	TNMG-270608-BR					
	TNMG-543-BR	TNMG-270612-BR					
	TNMG-544-BR	TNMG-270616-BR					
	TNMG-666-BR	TNMG-330924-BR					
Roughing 	TNMG-332-R	TNMG-160408-R					
	TNMG-333-R	TNMG-160412-R					
	TNMG-432-R	TNMG-220408-R					
	TNMG-433-R	TNMG-220412-R					
	TNMG-434-R	TNMG-220416-R					
	TNMG-542-R	TNMG-270608-R					
	TNMG-543-R	TNMG-270612-R					
	TNMG-548-R	TNMG-270632-R					
	TNMG-654-R	TNMG-330716-R					
	TNMG-666-R	TNMG-330924-R					

VNMG inserts for Cast Iron

Chipbreakers



Grades

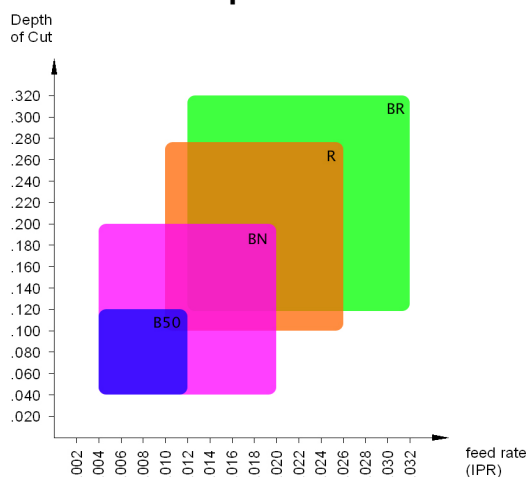
Cast Iron	K	K05	K10	K15	K20	K25	K30	K35	K40	K45	K50
		C4	C3 (Semi-Finishing)			C2 (General)		C1 (Roughing)			
		BCK35									
		BCK65									
				BCK55							
				BCK45							

Available Inserts

		ANSI	ISO	CVD				PVD
				BCK35	BCK65	BCK55	BCK45	
Medium		VNMG-331-BN	VNMG-160404-BN			•		
		VNMG-332-BN	VNMG-160408-BN			•	•	
		VNMG-333-BN	VNMG-160412-BN					
		VNMG-431-BN	VNMG-220404-BN					
		VNMG-432-BN	VNMG-220408-BN					

WNMG inserts for Cast Iron

Chipbreakers



Grades

Cast Iron	K	K05	K10	K15	K20	K25	K30	K35	K40	K45	K50
		C4	C3 (Semi-Finishing)			C2 (General)		C1 (Roughing)			
		BCK35									
		BCK65									
				BCK55							
				BCK45							

Available Inserts

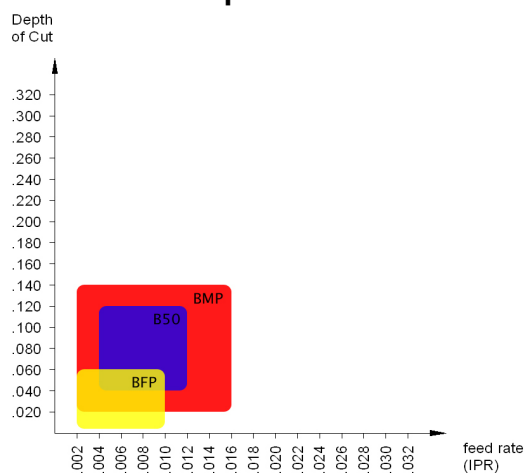
		ANSI	ISO	CVD				PVD
				BCK35	BCK65	BCK55	BCK45	
Medium		WNMG-331-BN	WNMG-060404-BN			●		
		WNMG-332-BN	WNMG-060408-BN			●		
		WNMG-333-BN	WNMG-060412-BN			●		
		WNMG-431-BN	WNMG-080404-BN			●		
		WNMG-432-BN	WNMG-080408-BN	●		●	●	
		WNMG-433-BN	WNMG-080412-BN			●	●	
Medium		WNMG-431-B50	WNMG-080404-B50			●		
		WNMG-432-B50	WNMG-080408-B50		●	●		
		WNMG-433-B50	WNMG-080412-B50		●			

WNMG inserts for Cast Iron (cont.)

		ANSI	ISO	CVD				PVD
				BCK35	BCK65	BCK55	BCK45	
Medium to Roughing		WNMG-432-BR	WNMG-080408-BR	•	•	•	•	
		WNMG-433-BR	WNMG-080412-BR		•	•	•	
		WNMG-434-BR	WNMG-080416-BR					
Roughing		WNMG-332-R	WNMG-060408-R					
		WNMG-333-R	WNMG-060412-R					
		WNMG-432-R	WNMG-080408-R					
		WNMG-433-R	WNMG-080412-R					
		WNMG-434-R	WNMG-080416-R					

DC_T inserts for Steel

Chipbreakers



Grades

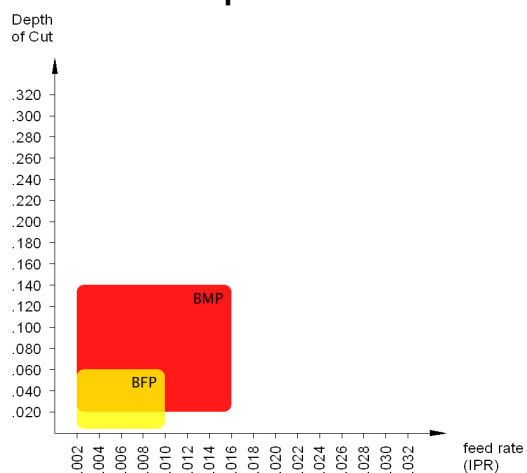
Steel	P	Grades									
		P05	P10	P15	P20	P25	P30	P35	P40	P45	P50
		C8	C7 (Light Finishing)			C6 (Semi-Finishing)		C5 (General)			
		BC75									
					BC20N						
				BP93							
					BC30						
					BC20						

Available Inserts

		ANSI	ISO	CVD				PVD
				BC75	BC20N	BC30	BC20	BP93
Finishing		DCGT-21.50.5-BFP	DCGT-070202-BFP					
		DCGT-21.51-BFP	DCGT-070204-BFP		•		•	
		DCGT-21.52-BFP	DCGT-070208-BFP					
		DCGT-32.50.5-BFP	DCGT-11T302-BFP					
		DCGT-32.51-BFP	DCGT-11T304-BFP		•		•	
		DCGT-32.52-BFP	DCGT-11T308-BFP	•				
Medium		DCMT-21.50.5-B50	DCMT-070202-B50					
		DCMT-21.51-B50	DCMT-070204-B50		•	•	•	•
		DCMT-21.52-B50	DCMT-070208-B50		•	•	•	
		DCMT-32.50.5-B50	DCMT-11T302-B50					
		DCMT-32.51-B50	DCMT-11T304-B50	•	•	•	•	•
		DCMT-32.52-B50	DCMT-11T308-B50	•	•	•	•	•
Medium		DCMT-21.50.5-BMP	DCMT-070202-BMP	•	•	•	•	
		DCMT-21.51-BMP	DCMT-070204-BMP	•	•	•	•	•
		DCMT-21.52-BMP	DCMT-070208-BMP	•	•	•	•	
		DCMT-32.50.5-BMP	DCMT-11T302-BMP	•	•	•	•	•
		DCMT-32.51-BMP	DCMT-11T304-BMP	•	•	•	•	•
		DCMT-32.52-BMP	DCMT-11T308-BMP	•	•	•	•	•

SC_T inserts for Steel

Chipbreakers



Grades

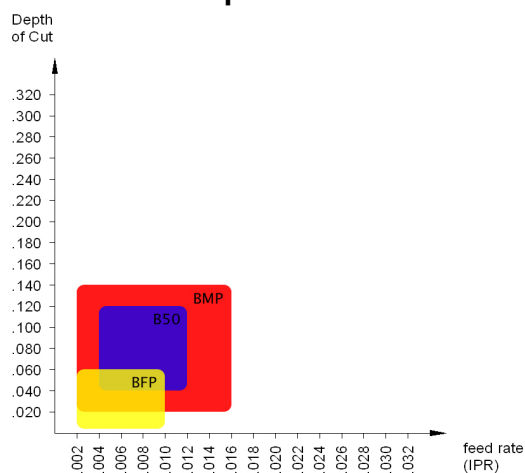
Steel	P	P05	P10	P15	P20	P25	P30	P35	P40	P45	P50	
		C8	C7 (Light Finishing)			C6 (Semi-Finishing)		C5 (General)				
		BC75										
					BC20N							
						BP93						
							BC30					
							BC20					

Available Inserts

		ANSI	ISO	CVD				PVD
				BC75	BC20N	BC30	BC20	BP93
Finishing		SCGT-32.51-BFP	SCGT-09T304-BFP	•				
Medium		SCMT-32.51-BMP	SCMT-09T304-BMP	•	•	•	•	
		SCMT-32.52-BMP	SCMT-09T308-BMP	•	•	•	•	
		SCMT-431-BMP	SCMT-120404-BMP	•				
		SCMT-432-BMP	SCMT-120408-BMP	•	•	•	•	

TC_T inserts for Steel

Chipbreakers



Grades

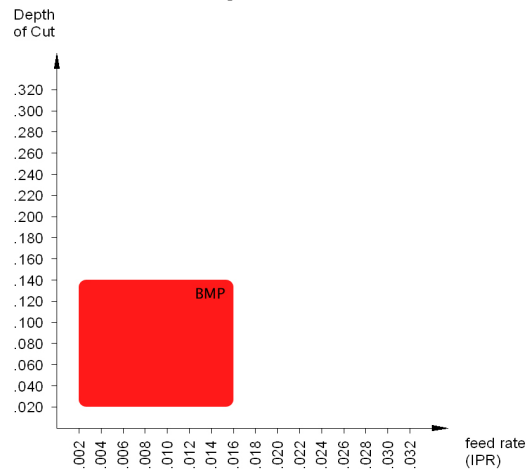
Steel	P	Grades									
		P05	P10	P15	P20	P25	P30	P35	P40	P45	P50
		C8	C7 (Light Finishing)			C6 (Semi-Finishing)		C5 (General)			
		BC75									
					BC20N						
					BP93						
						BC30					
						BC20					

Available Inserts

		ANSI	ISO	CVD				PVD
				BC75	BC20N	BC30	BC20	BP93
Finishing		TCGT-731-BFP	TCGT-090204-BFP					
		TCGT-21.50.5-BFP	TCGT-110202-BFP					
		TCGT-21.51-BFP	TCGT-110204-BFP					
		TCGT-21.52-BFP	TCGT-110208-BFP					
		TCGT-32.51-BFP	TCGT-16T304-BFP		•	•		
		TCGT-32.52-BFP	TCGT-16T308-BFP					
Medium		TCMT-731-B50	TCMT-090204-B50	•	•		•	
		TCMT-732-B50	TCMT-090208-B50	•	•		•	
		TCMT-21.50.5-B50	TCMT-110202-B50		•		•	
		TCMT-21.51-B50	TCMT-110204-B50	•	•	•	•	
		TCMT-21.52-B50	TCMT-110208-B50	•	•	•	•	•
		TCMT-32.51-B50	TCMT-16T304-B50	•	•	•	•	•
		TCMT-32.52-B50	TCMT-16T308-B50	•	•	•	•	•
Medium		TCMT-21.50.5-BMP	TCMT-110202-BMP		•	•	•	•
		TCMT-21.51-BMP	TCMT-110204-BMP	•				
		TCMT-21.52-BMP	TCMT-110208-BMP	•	•	•	•	
		TCMT-32.51-BMP	TCMT-16T304-BMP	•	•	•	•	•
		TCMT-32.52-BMP	TCMT-16T308-BMP	•	•	•	•	

VBMT inserts for Steel

Chipbreakers



Grades

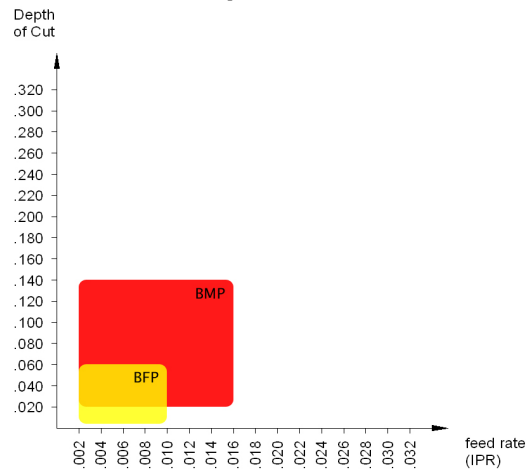
Steel	P	P05	P10	P15	P20	P25	P30	P35	P40	P45	P50	
		C8	C7 (Light Finishing)			C6 (Semi-Finishing)		C5 (General)				
		BC75										
					BC20N							
					BP93							
								BC30				
								BC20				

Available Inserts

		ANSI	ISO	CVD				PVD
				BC75	BC20N	BC30	BC20	BP93
Medium		VBMT-21.51-BMP	VBMT-110204-BMP		•		•	
		VBMT-221-BMP	VBMT-110304-BMP	•	•		•	
		VBMT-222-BMP	VBMT-110308-BMP					
		VBMT-331-BMP	VBMT-160404-BMP	•	•	•	•	
		VBMT-332-BMP	VBMT-160408-BMP	•	•	•	•	•

VC_T inserts for Steel

Chipbreakers



Grades

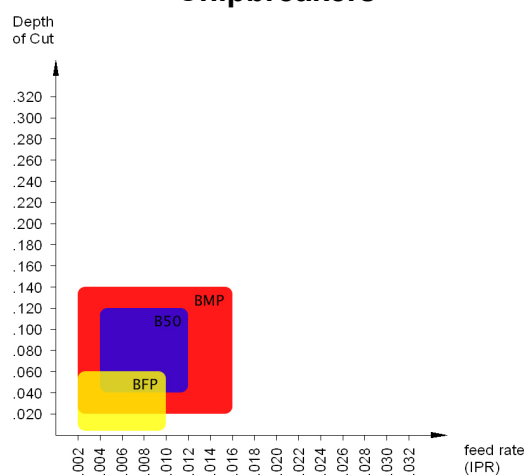
Steel	P	P05	P10	P15	P20	P25	P30	P35	P40	P45	P50	
		C8	C7 (Light Finishing)			C6 (Semi-Finishing)		C5 (General)				
		BC75										
					BC20N							
						BP93						
							BC30					
							BC20					

Available Inserts

		ANSI	ISO	CVD				PVD
				BC75	BC20N	BC30	BC20	BP93
Finishing		VCGT-220.5-BFP	VCGT-110302-BFP					
		VCGT-221-BFP	VCGT-110304-BFP		•		•	
		VCGT-222-BFP	VCGT-110308-BFP					
		VCGT-331-BFP	VCGT-160404-BFP		•		•	
		VCGT-332-BFP	VCGT-160408-BFP		•		•	
Medium		VCMT-331-BMP	VCMT-160404-BMP	•	•	•	•	
		VCMT-332-BMP	VCMT-160408-BMP		•	•	•	

DC_T inserts for Stainless Steel

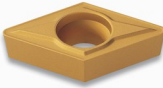
Chipbreakers



Grades

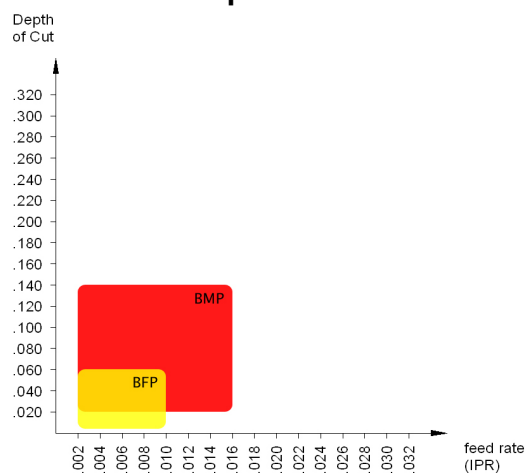
Stainless Steel	M	M05	M10	M15	M20	M25	M30	M35	M40	M45	M50	
		BP90										
		BC92										
		BC30										
							BP93					

Available Inserts

		ANSI	ISO	CVD			PVD	
				BC92	BC30		BP90	BP93
Finishing		DCGT-21.50.5-BFP	DCGT-070202-BFP					
		DCGT-21.51-BFP	DCGT-070204-BFP					
		DCGT-21.52-BFP	DCGT-070208-BFP					
		DCGT-32.50.5-BFP	DCGT-11T302-BFP					
		DCGT-32.51-BFP	DCGT-11T304-BFP					
		DCGT-32.52-BFP	DCGT-11T308-BFP					
Medium		DCMT-21.50.5-B50	DCMT-070202-B50					
		DCMT-21.51-B50	DCMT-070204-B50		●			●
		DCMT-21.52-B50	DCMT-070208-B50		●			
		DCMT-32.50.5-B50	DCMT-11T302-B50					
		DCMT-32.51-B50	DCMT-11T304-B50	●	●			●
		DCMT-32.52-B50	DCMT-11T308-B50	●	●			●
Medium		DCMT-21.50.5-BMP	DCMT-070202-BMP		●			
		DCMT-21.51-BMP	DCMT-070204-BMP	●	●		●	●
		DCMT-21.52-BMP	DCMT-070208-BMP		●			
		DCMT-32.50.5-BMP	DCMT-11T302-BMP	●	●		●	●
		DCMT-32.51-BMP	DCMT-11T304-BMP	●	●		●	●
		DCMT-32.52-BMP	DCMT-11T308-BMP	●	●		●	●

SC_T inserts for Stainless Steel

Chipbreakers



Grades

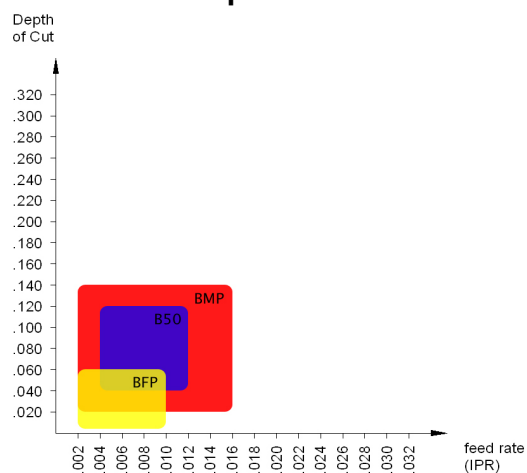
Stainless Steel	M	M05	M10	M15	M20	M25	M30	M35	M40	M45	M50
		BP90									
			BC92								
				BC30			BP93				

Available Inserts

		ANSI	ISO	CVD			PVD	
				BC92	BC30		BP90	BP93
Finishing		SCGT-32.51-BFP	SCGT-09T304-BFP					
Medium		SCMT-32.51-BMP	SCMT-09T304-BMP		•			
		SCMT-32.52-BMP	SCMT-09T308-BMP		•			
		SCMT-431-BMP	SCMT-120404-BMP					
		SCMT-432-BMP	SCMT-120408-BMP		•			

TC_T inserts for Stainless Steel

Chipbreakers



Grades

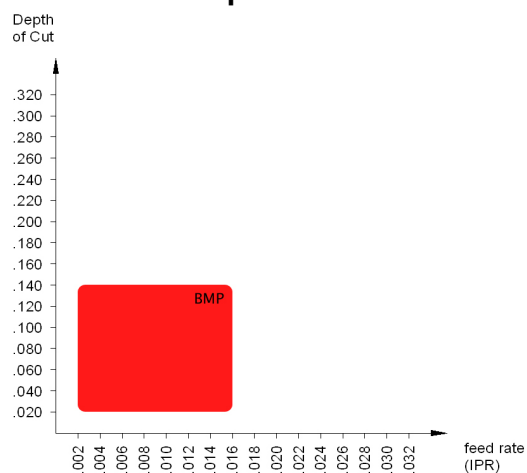
Stainless Steel	M	M05	M10	M15	M20	M25	M30	M35	M40	M45	M50	
		BP90										
		BC92										
		BC30										
		BP93										

Available Inserts

		ANSI	ISO	CVD			PVD	
				BC92	BC30		BP90	BP93
Finishing		TCGT-731-BFP	TCGT-090204-BFP					
		TCGT-21.50.5-BFP	TCGT-110202-BFP					
		TCGT-21.51-BFP	TCGT-110204-BFP					
		TCGT-21.52-BFP	TCGT-110208-BFP					
		TCGT-32.51-BFP	TCGT-16T304-BFP					
		TCGT-32.52-BFP	TCGT-16T308-BFP					
Medium		TCMT-731-B50	TCMT-090204-B50					
		TCMT-732-B50	TCMT-090208-B50					
		TCMT-21.50.5-B50	TCMT-110202-B50					
		TCMT-21.51-B50	TCMT-110204-B50		●			
		TCMT-21.52-B50	TCMT-110208-B50	●	●			●
		TCMT-32.51-B50	TCMT-16T304-B50	●	●			●
		TCMT-32.52-B50	TCMT-16T308-B50	●	●			●
Medium		TCMT-21.50.5-BMP	TCMT-110202-BMP	●	●			●
		TCMT-21.51-BMP	TCMT-110204-BMP					
		TCMT-21.52-BMP	TCMT-110208-BMP		●			
		TCMT-32.51-BMP	TCMT-16T304-BMP	●	●			
		TCMT-32.52-BMP	TCMT-16T308-BMP	●	●			

VBMT inserts for Stainless Steel

Chipbreakers



Grades

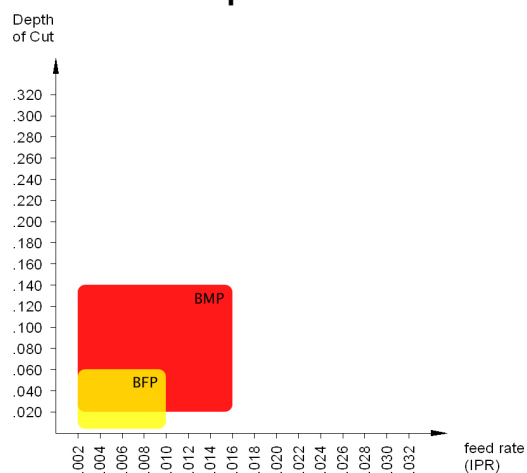
Stainless Steel	M	M05	M10	M15	M20	M25	M30	M35	M40	M45	M50
		BP90									
			BC92								
				BC30			BP93				

Available Inserts

		ANSI	ISO	CVD			PVD	
				BC92	BC30		BP90	BP93
Finishing		VBMT-21.51-BMP	VBMT-110204-BMP					
		VBMT-221-BMP	VBMT-110304-BMP					
		VBMT-222-BMP	VBMT-110308-BMP					
		VBMT-331-BMP	VBMT-160404-BMP	•	•		•	
		VBMT-332-BMP	VBMT-160408-BMP		•		•	•

VC_T inserts for Stainless Steel

Chipbreakers



Grades

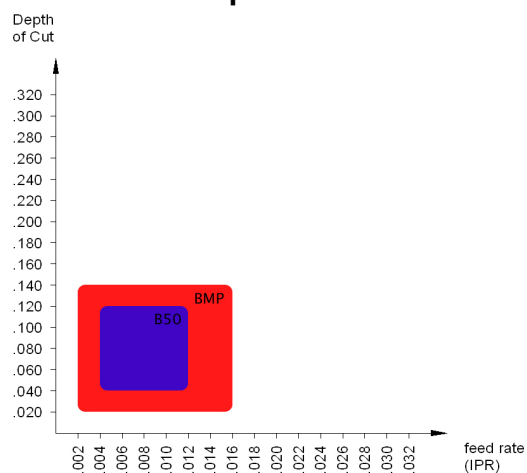
Stainless Steel	M	M05	M10	M15	M20	M25	M30	M35	M40	M45	M50
		BP90									
			BC92								
				BC30			BP93				

Available Inserts

		ANSI	ISO	CVD			PVD	
				BC92	BC30		BP90	BP93
Finishing		VCGT-220.5-BFP	VCGT-110302-BFP					
		VCGT-221-BFP	VCGT-110304-BFP					
		VCGT-222-BFP	VCGT-110308-BFP					
		VCGT-331-BFP	VCGT-160404-BFP					
		VCGT-332-BFP	VCGT-160408-BFP					
Medium		VCMT-331-BMP	VCMT-160404-BMP	•	•			
		VCMT-332-BMP	VCMT-160408-BMP	•	•			

DC_T inserts for Cast Iron

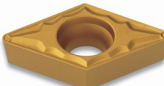
Chipbreakers



Grades

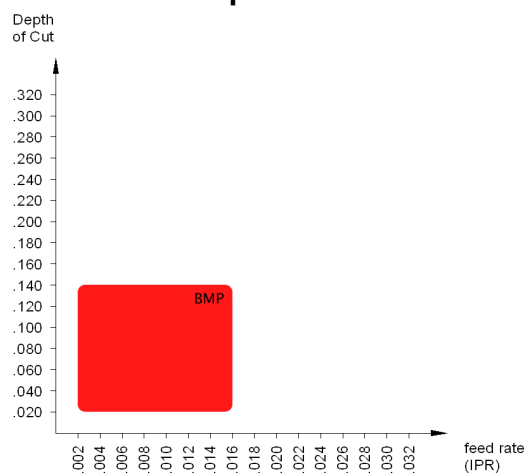
Cast Iron	K	K05	K10	K15	K20	K25	K30	K35	K40	K45	K50	
		C4	C3 (Semi-Finishing)			C2 (General)		C1 (Roughing)				
		BCK35										
		BCK65										
		BCK55										
		BCK45										

Available Inserts

		ANSI	ISO	CVD				PVD
				BCK35	BCK65	BCK55	BCK45	
Medium		DCMT-21.50.5-B50	DCMT-070202-B50					
		DCMT-21.51-B50	DCMT-070204-B50					
		DCMT-21.52-B50	DCMT-070208-B50					
		DCMT-32.50.5-B50	DCMT-11T302-B50					
		DCMT-32.51-B50	DCMT-11T304-B50		•	•		
		DCMT-32.52-B50	DCMT-11T308-B50		•	•	•	
Medium		DCMT-21.50.5-BMP	DCMT-070202-BMP					
		DCMT-21.51-BMP	DCMT-070204-BMP					
		DCMT-21.52-BMP	DCMT-070208-BMP					
		DCMT-32.50.5-BMP	DCMT-11T302-BMP					
		DCMT-32.51-BMP	DCMT-11T304-BMP	•	•	•	•	
		DCMT-32.52-BMP	DCMT-11T308-BMP		•	•	•	

SC_T inserts for Cast Iron

Chipbreakers



Grades

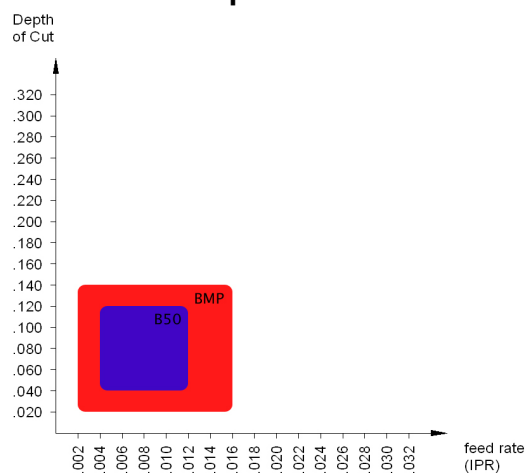
Cast Iron	K	K05	K10	K15	K20	K25	K30	K35	K40	K45	K50	
		C4	C3 (Semi-Finishing)			C2 (General)		C1 (Roughing)				
		BCK35										
		BCK65										
		BCK55										
		BCK45										

Available Inserts

		ANSI	ISO	CVD				PVD
				BCK35	BCK65	BCK55	BCK45	
Medium		SCMT-32.51-BMP	SCMT-09T304-BMP			•	•	
		SCMT-32.52-BMP	SCMT-09T308-BMP			•	•	
		SCMT-431-BMP	SCMT-120404-BMP					
		SCMT-432-BMP	SCMT-120408-BMP		•	•	•	

TC_T inserts for Cast Iron

Chipbreakers



Grades

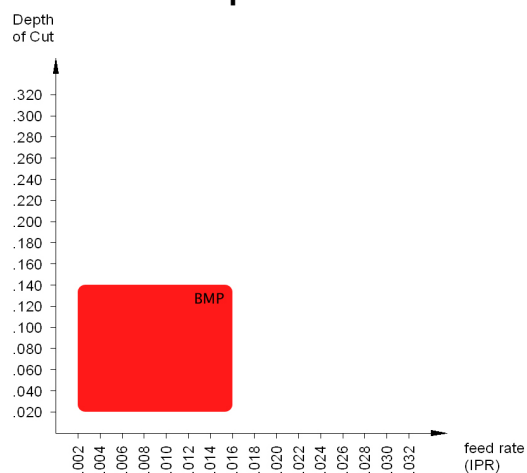
Cast Iron	K	K05	K10	K15	K20	K25	K30	K35	K40	K45	K50	
		C4	C3 (Semi-Finishing)			C2 (General)		C1 (Roughing)				
		BCK35										
		BCK65										
		BCK55										
		BCK45										

Available Inserts

		ANSI	ISO	CVD				PVD
				BCK35	BCK65	BCK55	BCK45	
Medium		TCMT-731-B50	TCMT-090204-B50		●			
		TCMT-732-B50	TCMT-090208-B50		●			
		TCMT-21.50.5-B50	TCMT-110202-B50					
		TCMT-21.51-B50	TCMT-110204-B50		●			
		TCMT-21.52-B50	TCMT-110208-B50		●			
		TCMT-32.51-B50	TCMT-16T304-B50		●			
		TCMT-32.52-B50	TCMT-16T308-B50		●			
Medium		TCMT-21.50.5-BMP	TCMT-110202-BMP					
		TCMT-21.51-BMP	TCMT-110204-BMP					
		TCMT-21.52-BMP	TCMT-110208-BMP			●		
		TCMT-32.51-BMP	TCMT-16T304-BMP		●	●	●	
		TCMT-32.52-BMP	TCMT-16T308-BMP		●	●	●	

VBMT inserts for Cast Iron

Chipbreakers



Grades

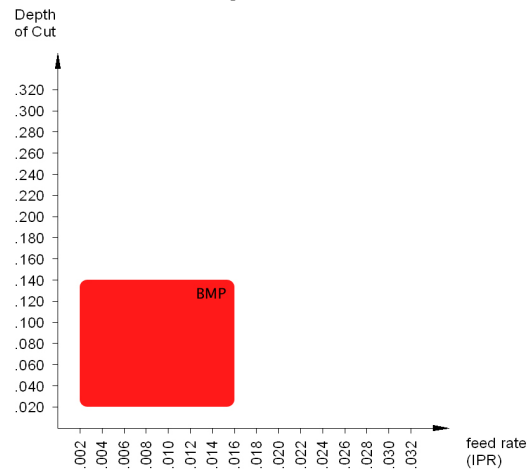
Cast Iron	K	K05	K10	K15	K20	K25	K30	K35	K40	K45	K50	
		C4	C3 (Semi-Finishing)			C2 (General)		C1 (Roughing)				
		BCK35										
		BCK65										
		BCK55										
		BCK45										

Available Inserts

		ANSI	ISO	CVD				PVD
				BCK35	BCK65	BCK55	BCK45	
Medium		VBMT-21.51-BMP	VBMT-110204-BMP					
		VBMT-221-BMP	VBMT-110304-BMP					
		VBMT-222-BMP	VBMT-110308-BMP					
		VBMT-331-BMP	VBMT-160404-BMP		•	•		
		VBMT-332-BMP	VBMT-160408-BMP			•		

VC_T inserts for Cast Iron

Chipbreakers



Grades

Cast Iron	K	K05	K10	K15	K20	K25	K30	K35	K40	K45	K50	
		C4	C3 (Semi-Finishing)			C2 (General)		C1 (Roughing)				
		BCK35										
		BCK65										
		BCK55										
		BCK45										

Available Inserts

		ANSI	ISO	CVD				PVD
				BCK35	BCK65	BCK55	BCK45	
Medium		VCMT-331-BMP	VCMT-160404-BMP			•		
		VCMT-332-BMP	VCMT-160408-BMP			•		

Index

A	
B	
C	CNMG-B50 10 21 31 CNMG-BN 9 21 31 CNMG-BR 32 CNMG-FF 9 CNMG-R 10 22 32
D	DCGT-BFP 43 49 DCMT-B50 43 49 55 DCMT-BMP 43 49 55 DNMG-B50 12 23 33 DNMG-BN 11 23 33 DNMG-BR 33 DNMG-FF 11 DNMG-R 12 24 33
E	
F	
G	
H	
I	

J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	SCGT-BFP 44 50 SCMT-BMP 44 50 56 SNMG-B50 14 25 35 SNMG-BN 13 25 35 SNMG-BR 36 SNMG-FF 13 SNMG-R 14 25 36

Index (Cont.)

T

TCGT-BFP	45 51
TCMT-B50	45 51 57
TCMT-BMP	45 51 57
TNMG-B50	16 27 38
TNMG-BF	15
TNMG-BN	15 27 37
TNMG-BR	38
TNMG-FF	15
TNMG-R	16 27 38

U

--	--

V

VBMT-BMP	46 52 58
VCGT-BFP	47 53
VCMT-BMP	47 53 59
VNMG-BN	17 29 39
VNMG-FF	17

W

WNMG-B50	19 30 40
WNMG-BN	18 30 40
WNMG-BR	40
WNMG-FF	18
WNMG-R	19 30 40

X

--	--

Y

--	--

Z

--	--