

SERIES

ULTIMATE HIGH SPEED CUTTING PERFORMANCE



# ABOUT OUR BRAND

### Your manufacturing success is our success.

It's simple. We want to provide high-quality cutting tool products that help deliver unparalleled performance and control for you to manufacture precisely perfect products every day.

Our long heritage of building partnerships through cutting tool solutions to metal working manufacturers, like yours, has given Mitsubishi Materials USA a solid reputation as an industry leader. We understand the importance of getting it right the first time by delivering high-quality cutting tool product brands to help overcome machining challenges to improve machining processes.

Your success is our success and is the driving force behind our innovative products. Our product brands, DIAEDGE and MOLDINO, are trusted globally in the metal manufacturing and die & mold industries for delivering expertly-designed manufactured tools of the trade for highly specialized industries like yours.

With the acquisition of MOLDINO Tool Engineering, Ltd, our traditional Mitsubishi Materials USA cutting tool product line is now sold under the DIAEDGE product brand name.

### Brands you can trust:







# MC6100 Series

Dramatic increase in stability and wear resistance, enabled by utilizing the improved coating adhesion and crystal orientation technology.

For High Speed Turning MC6115



**First Recommendation** MC6125



For Fracture Resistance MC6135

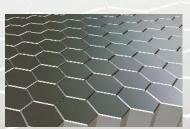


### **Features**

### "Super" Nano Texture Technology

The standard Nano Texture Technology has been improved and developed to be an industry leading standard for crystal growth of Al<sub>2</sub>O<sub>3</sub> coatings. This Super Nano Texture Technology increases tool life and wear resistance due to the fine, dense crystal growth process.





\*By Image

Crystal Orientation

The ratio of Al<sub>2</sub>O<sub>3</sub> crystal grains with the same orientation



Grain size and growth direction are uneven



Uniformity of the grain size and growth direction has improved.

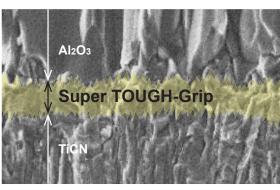


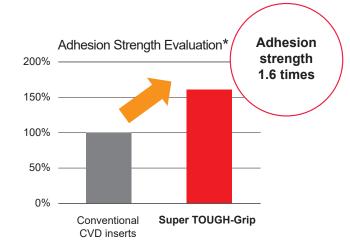
"Super" Nano Texture

Uniformity of the growth direction has drastically improved.

### **Super TOUGH-Grip**

The Super TOUGH-Grip layer has finer crystal grains that enhance the strength of the adhesion between the coating layers.





\*Adhesion strength measurement is obtained from a scratch test that records the force needed to peel the

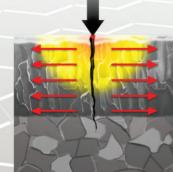
### **Protection Against Sudden Fracturing**

Cracks that occur during unstable machining are prevented due to the relaxing of the tensile stress in the coating. MC6100 series has an 80% reduction in coating tensile stress compared to conventional CVD inserts.

> Relaxing of the **Tensile Stress**

### **Impact Stress During Machining**

Large Tensile Stress



Tensile Stress

Large

Reduced Tensile Stress

# **Impact Stress During Machining**

Reduced Tensile Stress

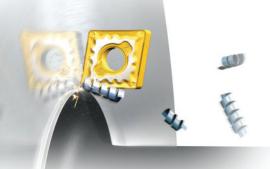
Conventional CVD inserts

Cracks are generated in the surface of coatings during machining. They propagate through the coating into the substrate due to the large tensile stress in the coating structure. This creates one of the main causes of sudden insert breakage.

### MC6100 Series

MC6100 series has a much lower level of stress than conventional CVD coatings due to the surface treatment. This divides the force of impacts during machining and protects from sudden fracturing.

# MC6125



First recommended grade for steel turning. Increasing tool life with stable performance over a wider range of applications.

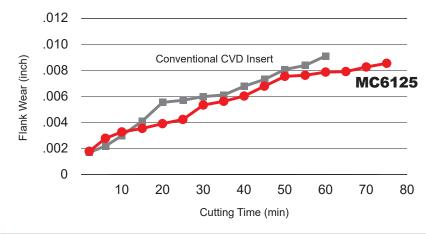


### **Special Smooth Surface Treatment**

MC6125 uses a new surface treatment for the cutting edge for increased stability. Additionally, the seating faces have a special smooth surface treatment that provides improved clamping stability to enable a wider range of applications.

### **Machining 1045: Comparison of Wear Resistance**

The surface treatment has improved stability and provided longer tool life.



<Cutting Conditions>

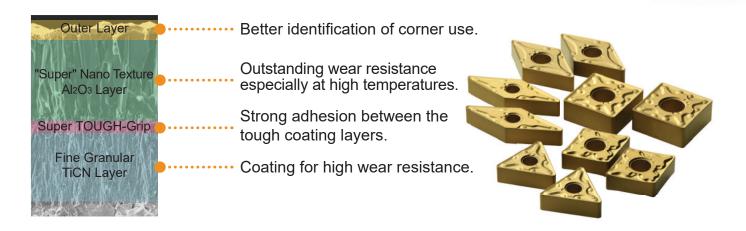
Material : AISI 1045
Inserts : CNMG432MA
Cutting Speed : vc = 655 SFM
Feed per Rev. : f=.012 IPR
Depth of Cut : ap =.059 inch
Cutting Mode : Wet Cutting

### **CVD Coated Grade for Steel Turning**

# MC6115



MC6115 improves high speed machining and process efficiency with a dramatic increase in resistance to wear and heat.



### **Improved Outer Coating (Layer)**

The outer layer of MC6115 restricts chip welding thereby improving the dimensional accuracy and surface roughness of components. This also allows for easy recognition of whether the corner can continue machining.

### **Example when machining 5120H**

When comparing the high edge strength MH chipbreaker with a conventional low resistance chipbreaker, it shows that MC6115 accomplishes both high welding and wear resistance.

### After 2 Minutes Machining





Conventional CVD Insert

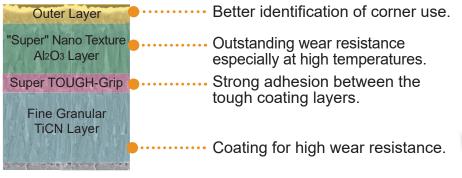
<Cutting Conditions>

Material : AISI 5120H 170HB
Inserts : CNMG432MH
Cutting Speed : vc = 655 SFM
Feed per Rev. : f=.012 IPR
Depth of Cut : ap =.059 inch
Cutting Mode : Dry Cutting

# MC6135



# Optimal versatility for machining continuous through to intermittent applications.



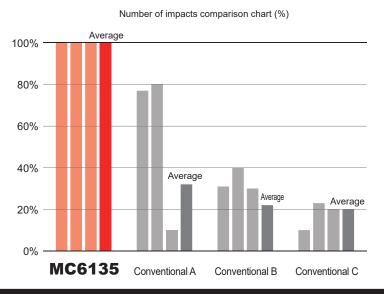


### **Thinner Coatings Optimized for General Purpose Machining**

Industry-leading crystal orientation control technology enables thinner but still impact-resistant coatings provide improved chipping and wear resistance which is optimal for general-purpose use. (50% thinner compared to our conventional coating).

### **Machining 4140: Comparison of Toughness During Interrupted Cutting**

MC6135 shows high stability even during interrupted cutting and can be used over a wide area of applications.

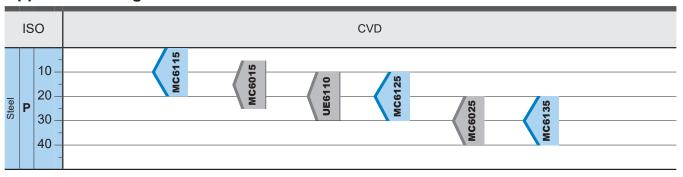


<Cutting Conditions>
Material : AISI 4140
Inserts : CNMG432

Cutting Speed: vc=655 SFM
Feed per Rev.: f=.014 IPR
Depth of Cut: .098 inch
Cutting Mode: Wet Cutting

Pre-set tool life limit or until damage deteriorates the performance.

### **Application Range**



### **Selection Criteria**

	Material	Cutting Mode	Grade
		Continuous Cutting  ↑ Low	MC6115
P	Steel	Medium	MC6125
			MC6135

### **Chipbreaker System for Steel Turning**

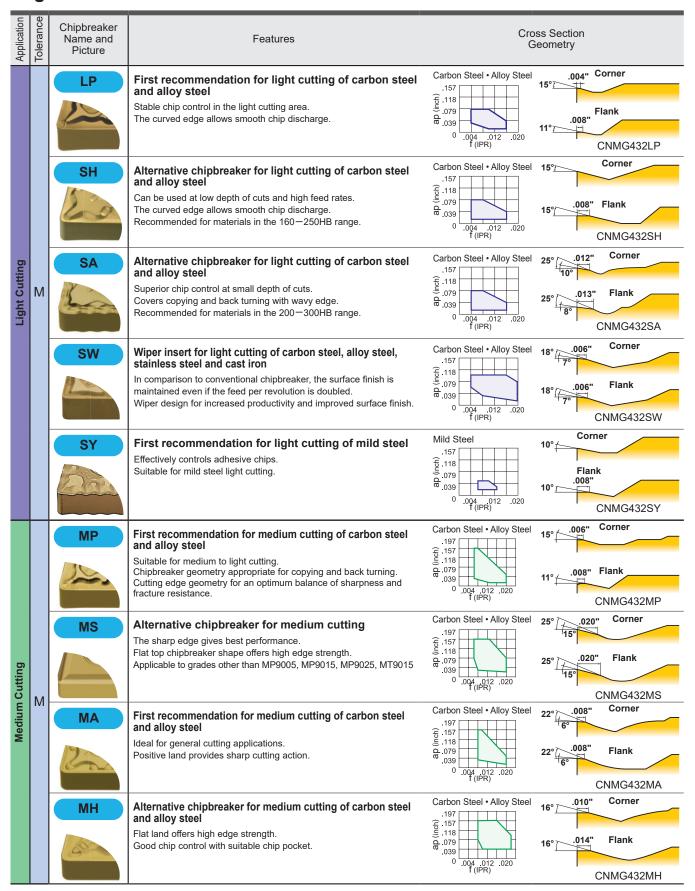
### **Negative Inserts**

Application	Tolerance	Chipbreaker Name and Picture	Features	,	Cross S Geom	00
		FP	First recommendation for finishing carbon steel and alloy steel  Controls chip clogging during high-feed cutting and prevents chips of soft materials from running onto their surfaces.  Large rake angle suppress chatter vibration and deformation in machining of low rigidity workpiece.	Carbon Steel • Alloy Steel  .157  6 .118  .079  0 .004 .012 .020  f (IPR)	20°	Flank CNMG432FP
Cutting	M	FH	First recommendation for finishing carbon steel and alloy steel Stable chip control even at small depths of cut.	Carbon Steel • Alloy Steel  .118	12°	Flank CNMG432FH
Finish Cutting	IVI	FS	Alternative chipbreaker for finishing mild steel Stable chip control even at small depths of cut. Sharp edge gives best performance.	Mild Steel .118 .079 .079 .004.008.012.016 f (IPR)	16° <u></u> — 8° ←	Flank CNMG432FS
		FY	First recommendation for finishing mild steel Effectively controls adhesive chips. Suitable for mild steel finishing.	Mild Steel .118 .079 .079 .004.008.012.016 f (IPR)	15°	Flank .008" CNMG432FY

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### **Chipbreaker System for Steel Turning**

### **Negative Inserts**



and alloy steel Flat land offers high edge strength. Flank .010" Flat top chipbreaker shape offers high edge strength. .039 CNMG432 Carbon Steel • Alloy Steel 19° Wiper insert for medium cutting of carbon steel, MW alloy steel, stainless steel and cast iron = 157 The wiper allows up to two times higher feed. ≦ .118 .012" A wide chip pocket prevents chip jamming. 039 CNMG432MW Stainless Steel Alternative chipbreaker for medium cutting of R/L-ES Flank stainless steel Good balance of edge strength and sharpness. Right or left hand chipbreaker for unidirectional chip control. TNMG321RES Carbon Steel • Alloy Steel First recommendation for rough cutting of carbon steel RP 276 (a) .197 (a) .118 0.039 0.04 .012 .020 .028 (f (IPR) and alloy steel For interrupted cuts and removing scale Good balance of cutting edge strength and low cutting resistance because of suitable rake angle. CNMG432RP Corner Carbon Steel • Alloy Steel Alternative chipbreaker for rough cutting of carbon GH 2.66 9.197 0.118 0.039 0.004.012.020.028 f (IPR) steel, alloy steel and cast iron For interrupted cuts and removing scale. Flank .013" A combination of wide land and a large chip pocket allows high feed rates. CNMG432GH Carbon Steel • Alloy Steel 23° First recommendation for heavy cutting of carbon steel .017" HX and alloy steel .551 <u>ਓ</u> .394 Covers the medium range of the heavy cutting region .020 Flank Owing to the straight edge and chamfer, it gives a balance of sharpness and strength Variable land and a wavy chipbreaker for good chip control. CNMM644HX Carbon Steel • Alloy Steel First recommendation for heavy cutting Alternative chipbreaker for heavy cutting of carbon steel and alloy steel .013" Low resistance due to narrow flat land. Achieves high chip breaking ability. CNMM644HL Alternative chipbreaker for heavy cutting of carbon Carbon Steel • Alloy Steel HR steel and alloy steel .551 ົ⊂ 394 🎞 .023" 236 0.079 0.008.024.039.055 High cutting edge strength. Excellent chip discharge even with high feed and high depth of cut. CNMM866HR Carbon Steel • Alloy Steel 20°7 .027" Corner Alternative chipbreaker for heavy cutting of carbon steel .551 Covers the upper end of the heavy cutting area. .027" Flank Wide land and large chamfer offer high edge strength A wide chipbreaker prevents chip jamming. SNMM644HV

Features

Alternative chipbreaker for medium cutting of carbon steel

Cross Section

Geometry

15° 7

Carbon Steel • Alloy Steel

Chipbreaker

Name and

Picture

Standard

## **Chipbreaker System for Steel Turning**

### **Negative Inserts**

Application	Tolerance	Chipbreaker Name and Picture	Features	Cross Section Geometry								
Cutting	M	HZ	Alternative chipbreaker for heavy cutting of carbon steel and alloy steel  Covers the lower end of the heavy cutting area.  Low cutting resistance due to positive land and curved edge.  Teardrop dots improve chip control without increasing cutting resistance.	Carbon Steel • Alloy Steel 22° 017" Corner 6° 017" Flank 2.236 0.008 0.024 0.039 0.055 (IPR) CNMM644HZ								
Heavy	IVI	HM	Alternative chipbreaker for heavy cutting of carbon steel and alloy steel and stainless steel  Flat land provides outstanding balance between cutting edge strength and sharpness.	Carbon Steel • Alloy Steel  .551  g394  o079  o08024 .039 .055  f (IPR)  CNMM644HM								

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### 5°, 7° Positive Inserts

•	, "	1 0311140	: 11136113		
Application	Tolerance	Chipbreaker Name and Picture	Features		ss Section eometry
Sutting		EP 4	First recommendation for finishing carbon steel, alloy steel and mild steel Chipbreaker protrusion at the corner tip controls chips even at small depth of cut. Maintains the edge strength at the corner and prevents sudden fractures.	Carbon Steel • Alloy Steel .118 .079 .030 .030 .004.008.012.016 f (IPR)	6° Flank CCMT32.51FP
Finish Cutting	M	FV	Alternative chipbreaker for finishing carbon steel, alloy steel, mild steel and stainless steel  Suitable for low depths of cut and low feed rates.  Sharp cutting edge and low resistance design achieves excellent cutting performance.	Carbon Steel • Alloy Steel  .118	18° Corner  8° Flank  CCMT32.51FV
Light Cutting	М	LP	First recommendation for light cutting of carbon steel, alloy steel and mild steel Sharp cutting edge due to a large rake angle. Prevents welding of the insert and controls white turbidity of the surface finish. Chipbreaker protrusion suitable for depth of cut area achieves a wide range of chip control.  Wiper insert for light cutting of carbon steel,	Carbon Steel • Alloy Steel  .118 .079 .004 .008 .012 .016 f (IPR)  Carbon Steel • Alloy Steel	Flank 8°  CCMT32.52LP  20°  Corner  Corner
			alloy steel, mild steel and stainless steel In comparison to conventional chipbreakers, the surface finish is maintained even if the feed per revolution is doubled. Positive land improves sharpness.	0.039 0.039 0.004.008.012.016 0.004.008.012.016	16° Flank  CCMT32.51SW
		MP	First recommendation for medium cutting of carbon steel, alloy steel and mild steel Good balance of wear resistance and fracture resistance because of the flat land cutting edge. A wide chip pocket controls increasing of the cutting resistance and reduces vibration and chip jamming even at large depths of cut.	Carbon Steel • Alloy Steel  .118  .079  .004 .008 .012 .016  f (IPR)	.004" Corner 18° .004" Flank CCMT32.52MP
Cutting	M	MV	Alternative chipbreaker for medium cutting of carbon steel, alloy steel, mild steel and stainless steel  A positive insert and the large rake angle achieve sharp cutting edge performance.  The double chipbreaker and round shape in the rake face achieve a wide range of chip discharge.	Carbon Steel • Alloy Steel .118 .079 .039 .004 .008 .012 .016 f (IPR)	20° 12° Corner 20° 12° Flank CCMH21.51MV
Medium Cu	IVI	MW	Wiper insert for medium cutting of carbon steel, alloy steel, mild steel and stainless steel  The wiper allows up to two times higher feed.  A wide chip pocket prevents chip jamming.	Carbon Steel • Alloy Steel .118 .079 .004 .008 .012 .016 f (IPR)	18° 008" Corner  18° 7° Flank  CCMT32.52MW
		Standard	Alternative chipbreaker for medium cutting of carbon steel, alloy steel, mild steel, stainless steel and cast iron  Balance of edge strength and sharpness due to a combination of a flat land and large rake angle.	Carbon Steel • Alloy Steel .197 .039 .079 .039 .039 .004.008.012.016 f (IPR)	.008" Flank 15° RCMX1204M0
Heavy Cutting	М	RR	Chipbreaker for heavy cutting of carbon steel and alloy steel  A wide groove chipbreaker prevents chips from jamming at large depths of cut.  Small dimples improve chip control at small depths of cut.	Carbon Steel • Alloy Steel  .472  .315  .157  0 .008 .024 .039 .055  f (IPR)	28° 012" RCMX2006M0-RR

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### **Chipbreaker System for Steel Turning**

### 7° Positive Inserts

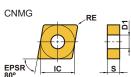
Application	Tolerance	Chipbreaker Name and Picture	Features	Cross Section Geometry
Finish Cutting	М	SVX	Alternative chipbreaker for light cutting of carbon steel and alloy steel Chip control is improved by having a chipbreaker geometry suitable for copying.	Carbon Steel • Alloy Steel  18°  Corner  18°  Flank  8°  Flank  XCMT221SVX

### 11° Positive Inserts

11	~ F	ositive Ir	nserts		
Application	Tolerance	Chipbreaker Name and Picture	Features		ss Section eometry
Finish Cutting	М	FV	First recommendation for finishing carbon steel, alloy steel, mild steel and stainless steel Suitable for low depths of cut and low feed rates. Sharp cutting edge and low resistance design achieves excellent cutting performance.	Carbon Steel • Alloy Steel  (2) .079 (3) .039 (1) .004 .008 .012 .016 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Flank 8° CPMH321FV
Light Cutting	М	LP	First recommendation for light cutting of carbon steel, alloy steel and mild steel  Sharp cutting edge due to a large rake angle.  Prevents welding of the insert and controls white turbidity of the surface finish.  Chipbreaker protrusion suitable for depth of cut area achieves a wide range of chip control.	Carbon Steel • Alloy Steel  .118  .079  .039  .004 .008 .012 .016  f (IPR)	Flank 8°  CPMH321LP
Light		SW	Wiper insert for light cutting of carbon steel, alloy steel, mild steel and stainless steel In comparison to conventional chipbreakers, the surface finish is maintained even if the feed per revolution is doubled. Positive land improves sharpness.	Carbon Steel • Alloy Steel  .118 .079 .004 .008 .012 .016 f (IPR)	20° Corner 12° Flank 16° 8° TPMX1.81.52SW
		MP	First recommendation for medium cutting of carbon steel, alloy steel and mild steel Good balance of wear resistance and fracture resistance because of the flat land cutting edge. A wide chip pocket controls increasing of the cutting resistance and reduces vibration and chip jamming even at large depths of cut.	Carbon Steel • Alloy Steel	.004" Corner 18° .004" Flank CPMH322MP
Medium Cutting	M	MV	First recommendation for medium cutting of carbon steel, alloy steel, mild steel, stainless steel and cast iron  A positive insert and large rake angle achieves sharp cutting edge performance.  Double chipbreaker in the rake face achieve a wide range of chip discharge.	Carbon Steel • Alloy Steel  .118 .079 .004 .008 .012 .016 f (IPR)	20° 8° Corner 20° 8° Flank CPMH321MV
		Standard	Alternative chipbreaker for medium cutting of carbon steel, alloy steel and stainless steel Standard, general purpose chipbreaker.	Carbon Steel • Alloy Steel  .118 .079 .079 .039 .004 .008 .012 .016 f (IPR)	Corner  Flank  10°  CPMH321
Strong Cutting Edge	М	Flat Top	Chipbreaker for Heavy cutting Flat top. Most effective for unstable machining due to its high edge strength.	Cast Iron  (a) .118 (b) .079 (c) .009 (d) .008 .012 .016 (f) (IPR)	0°  

# MC6100 Series

# Negative Inserts (With Hole) M Class



Finish	Finish	Finish	Finish	Light	Light
FP	FH	FS	FY	LP	SH
			•		
Light	Light	Light	Medium	Medium	Medium
SA	SW	SY	MP	MS	MA
<b>G</b>	(Wiper)				Q

																	(inch)
Order Number	Cutting Area	MC6115	MC6125	MC6135 A	IC	s	RE	D1	Order Number	Cutting Area	MC6115	MC6125	MC6135 ₹	IC	s	RE	D1
CNMG430.5FP	F	•	•	•	.500	.187	.008	.203	CNMG431MP	М	•	•	•	.500	.187	.016	.203
CNMG431FP	F	•	•	*	.500	.187	.016	.203	CNMG432MP	М	•	•	•	.500	.187	.031	.203
CNMG432FP	F	•	•	•	.500	.187	.031	.203	CNMG433MP	М	•	•	•	.500	.187	.047	.203
CNMG433FP	F	*	*	*	.500	.187	.047	.203	CNMG434MP	М	•	•	•	.500	.187	.063	.203
CNMG430.5FH	F	•	•	•	.500	.187	.008	.203	CNMG542MP	М	•	•	•	.625	.250	.031	.250
CNMG431FH	F	*	•	*	.500	.187	.016	.203	CNMG543MP	М	•	•	•	.625	.250	.047	.250
CNMG432FH	F	•	•		.500	.187	.031	.203	CNMG544MP	М	•	•	*	.625	.250	.063	.250
CNMG431FS	F		*	*	.500	.187	.016	.203	CNMG322MS	М	•	•		.375	.125	.031	.150
CNMG431FY	F	*	*	*	.500	.187	.016	.203	CNMG32.52MS	М	*	*		.375	.156	.031	.150
CNMG432FY	F	*	*	•	.500	.187	.031	.203	CNMG431MS	М	•	*	*	.500	.187	.016	.203
CNMG431LP	L	•	•	•	.500	.187	.016	.203	CNMG432MS	М	•	•	*	.500	.187	.031	.203
CNMG432LP	L	•	•	•	.500	.187	.031	.203	CNMG433MS	М	•	•		.500	.187	.047	.203
CNMG433LP	L	•	•	*	.500	.187	.047	.203	CNMG431MA	М	•	•	•	.500	.187	.016	.203
CNMG32.51SH	L	*	*		.375	.156	.016	.150	CNMG432MA	М	•	•	•	.500	.187	.031	.203
CNMG32.52SH	L	*	*		.375	.156	.031	.150	CNMG433MA	М	•	•	•	.500	.187	.047	.203
CNMG431SH	L	•	•	*	.500	.187	.016	.203	CNMG434MA	М	•	•	*	.500	.187	.063	.203
CNMG432SH	L	•	•	•	.500	.187	.031	.203	CNMG542MA	М	•	•	•	.625	.250	.031	.250
CNMG433SH	L	•	•	*	.500	.187	.047	.203	CNMG543MA	М	•	•	•	.625	.250	.047	.250
CNMG431SA	L	•	•	•	.500	.187	.016	.203	CNMG544MA	М	•	•	*	.625	.250	.063	.250
CNMG432SA	L	•	•	•	.500	.187	.031	.203	CNMG643MA	М	•	•	•	.750	.250	.047	.312
CNMG433SA	L	•	•	*	.500	.187	.047	.203	CNMG644MA	М	•	•	•	.750	.250	.063	.312
CNMG431SW	L	•	•		.500	.187	.016	.203								• :	NEW
CNMG432SW	L	•	•		.500	.187	.031	.203									
CNMG433SW	ĺι				.500	.187	.047	.203									

L ★ ★ ★ .500 .187 .016 .203

L ★ ★ ★ .500 .187 .031 .203

CNMG431SY

CNMG432SY

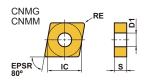
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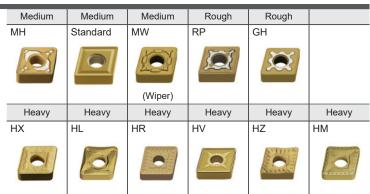
<sup>● :</sup> USA Stock ★ : Stocked in Japan (10 inserts in one case)

# MC6100 Series

### **Negative Inserts (With Hole)**

M Class





															(inch)		
Order Number	Cutting Area	MC6115	MC6125	MC6135 M	IC	s	RE	D1	Order Numbe	Cutting Area	MC6115	MC6125	MC6135 R	IC	S	RE	D1
CNMG431MH	М	•	•	•	.500	.187	.016	.203	CNMM432HX			•	•	.500	.187	.031	.203
CNMG432MH	М	•	•	•	.500	.187	.031	.203	CNMM433HX	. Н		*	*	.500	.187	.047	.203
CNMG433MH	М	•	•	•	.500	.187	.047	.203	CNMM543HX	H		*	*	.625	.250	.047	.250
CNMG434MH	М	•	•	*	.500	.187	.063	.203	CNMM544HX	Н		*	*	.625	.250	.063	.250
CNMG542MH	М	•	•		.625	.250	.031	.250	CNMM643HX	Н	*	*	*	.750	.250	.047	.312
CNMG543MH	М	•	•	•	.625	.250	.047	.250	CNMM644HX	H	*	*	*	.750	.250	.063	.312
CNMG544MH	М	•	•		.625	.250	.063	.250	CNMM646HX	Н	*	*	*	.750	.250	.094	.312
CNMG643MH	М	•	•	•	.750	.250	.047	.312	CNMM866HX	Н	*	*	*	1.000	.375	.094	.359
CNMG644MH	М	•	•	*	.750	.250	.063	.312	CNMM432HL	Н		*	*	.500	.187	.031	.203
CNMG322	М	*	*		.375	.125	.031	.150	CNMM433HL	Н		*	*	.500	.187	.047	.203
CNMG32.51	М	*	*	*	.375	.156	.016	.150	CNMM434HL	Н			*	.500	.187	.063	.203
CNMG32.52	М	*	*	*	.375	.156	.031	.150	CNMM543HL	Н		*	*	.625	.250	.047	.250
CNMG431	М	•	•		.500	.187	.016	.203	CNMM544HL	Н		*	*	.625	.250	.063	.250
CNMG432	М	•	•		.500	.187	.031	.203	CNMM643HL	Н		*	*	.750	.250	.047	.312
CNMG433	М	•	•		.500	.187	.047	.203	CNMM644HL	Н		*	*	.750	.250	.063	.312
CNMG434	M	•	•	*	.500	.187	.063	.203	CNMM646HL	Н		•	*	.750	.250	.094	.312
CNMG542	М	•	•	*	.625	.250	.031	.250	CNMM866HR	Н	*	*		1.000	.375	.094	.359
CNMG543	М	•	•		.625	.250	.047	.250	CNMM644HV	' Н	*	*	*	.750	.250	.063	.312
CNMG544	М	•	•	*	.625	.250	.063	.250	CNMM646HV	′ Н	*	*	*	.750	.250	.094	.312
CNMG642	M	•	•	•	.750	.250	.031	.312	CNMM866HV	′ Н	*	*		1.000	.375	.094	.359
CNMG643	М	•	•		.750	.250	.047	.312	CNMM432HZ	Н	*	*	*	.500	.187	.031	.203
CNMG644	M	•	•	*	.750	.250	.063	.312	CNMM433HZ	H	*	*	*	.500	.187	.047	.203
CNMG432MW	М	•	•		.500	.187	.031	.203	CNMM434HZ	Н			*	.500	.187	.063	.203
CNMG433MW	М	•	•	*	.500	.187	.047	.203	CNMM543HZ	Н	*	*	*	.625	.250	.047	.250
CNMG432RP	R	•	•		.500	.187	.031	.203	CNMM544HZ	Н	*	*	*	.625	.250	.063	.250
CNMG433RP	R	•	•	•	.500	.187	.047	.203	CNMM643HZ	Н	*	*	*	.750	.250	.047	.312
CNMG434RP	R	•	•	•	.500	.187	.063	.203	CNMM644HZ	Н	*	*	*	.750	.250	.063	.312
CNMG543RP	R	•	•	•	.625	.250	.047	.250	CNMM543HN	I H		*	*	.625	.250	.047	.250
CNMG544RP	R	•	•	*	.625	.250	.063	.250	CNMM544HN	I H		*	*	.625	.250	.063	.250
CNMG643RP	R	•	•	•	.750	.250	.047	.312	CNMM643HN	I H		*	*	.750	.250	.047	.312
CNMG644RP	R	•	•	•	.750	.250	.063	.312	CNMM644HN	1 Н		*	*	.750	.250	.063	.312
CNMG432GH	R	•	•	•	.500	.187	.031	.203	CNMM646HN	1 Н		•	*	.750	.250	.094	.312
CNMG433GH	R	•	•	•	.500	.187	.047	.203	CNMM866HN	I H	*	*	*	1.000	.375	.094	.359
CNMG434GH	R	•	•		.500	.187	.063	.203								• =	NEW
CNMG543GH	R	•	•	•	.625	.250	.047	.250									

R • •

R | • | • | •

R | ● | ● | ★

.625

.750

.250 .063 .250

.250 .047 .312

.750 | .250 | .063 | .312

CNMG544GH

CNMG643GH

CNMG644GH

Light Light Finish FP SH Light Light Medium Medium Medium SW MA 0 (Wiper) (inch) Cutting Are Order Number IC S Order Number IC RE D1 S RE D1 DNMG430.5FP F • • • .500 .187 | .008 | .203 DNMX331SW .375 | .187 | .016 | .150 DNMX332SW DNMG431FP F • • \* .500 .187 | .016 | .203 L .375 .187 | .031 | .150 DNMG432FP 0 0 0 .500 .187 .031 .203 DNMX431SW .187 | .016 | .203 .500 L .187 | .047 | .203 .500 .187 | .031 | .203 DNMG433FP .500 DNMX432SW DNMG440.5FF .500 .250 .008 .203 DNMX433SW .500 .187 | .047 | .203 DNMG441FP .500 .250 | .016 | .203 DNMX441SW .500 .250 .016 .203 DNMG442FP .500 .250 | .031 | .203 DNMX442SW .500 .250 | .031 | .203 .250 .047 .203 DNMG443FP .500 DNMX443SW .250 | .047 | .203 F • • \* .187 .016 .203 DNMG430.5FH .500 .187 .008 .203 DNMG431SY .500 DNMG431FH F • • .187 .500 .016 .203 .500 .187 | .031 | .203 DNMG432SY DNMG432FH .500 .187 .031 .203 DNMG442SY .500 .250 | .031 | .203 DNMG440.5FH .500 .250 .008 .203 M • • • DNMG431MP .500 .187 | .016 | .203 .500 .250 .016 .203 DNMG441FH M | • | • | • **DNMG432MP** .500 .187 .031 .203 .250 .031 .203 DNMG442FH .500 M • • • DNMG433MP .500 .187 | .047 | .203 DNMG432FS .187 .031 M | • | • | DNMG434MP .500 .187 | .063 | .203 .500 .187 .016 .203 DNMG431FY M • • DNMG441MP .500 .250 | .016 | .203 .500 .187 .031 .203 DNMG432FY \* • • м 🔸 🔸 .500 DNMG442MP .250 .031 DNMG442FY .500 .250 | .031 | .203 M • • DNMG331LP L • • \* .375 .187 .016 .150 DNMG443MP .500 .250 | .047 | .203 DNMG332LP .375 .187 .031 .150 DNMG444MP .500 .250 .063 .203 DNMG431LP .187 .500 .016 .203 M • • **DNMG332MS** .375 .187 | .031 | .150 DNMG432LP .500 .187 | .031 | .203 DNMG431MS .187 | .016 | .203 DNMG433LP .500 .187 .047 .203 M • • DNMG432MS .500 .187 | .031 | .203 DNMG441LP .500 .250 | .016 | .203 М ★ DNMG433MS .047 .203 .500 .187 DNMG442LP .500 .250 | .031 | .203 M ★ DNMG441MS .500 .250 .016 .203 DNMG443LP .500 .250 | .047 | .203 М .375 .187 .016 .150 DNMG442MS .500 .250 | .031 | .203 DNMG331SH M 🛨 DNMG332SH .187 | .031 | .150 DNMG443MS .500 .250 | .047 | .203 DNMG431SH .500 .187 .016 .203 DNMG331MA .375 .187 .016 .150 DNMG432SH .500 .187 | .031 | .203 M • • • **DNMG332MA** .375 .187 | .031 | .150 DNMG433SH .500 .187 .047 .203 **DNMG333MA** .375 .187 .047 DNMG441SH .500 .250 .016 .203 M • • • .500 **DNMG431MA** .187 | .016 | .203 DNMG442SH .500 .250 | .031 | .203 DNMG432MA | M | • | • | • .500 .187 .031 .203 .500 .250 | .047 | .203 DNMG443SH M • • • **DNMG433MA** .500 .187 | .047 | .203 DNMG431SA .500 .187 | .016 | .203 M • • DNMG432SA .500 .187 | .031 | .203 DNMG441MA .500 .250 | .016 | .203 DNMG433SA M | • | • | .500 .187 .047 | .203 DNMG442MA .500 .250 .031 .203 DNMG441SA .500 .250 | .016 | .203 **DNMG443MA** M | • | • | .500 .250 | .047 | .203 DNMG442SA .500 | .250 | .031 | .203 .500 | .250 | .063 | .203 **DNMG444MA** DNMG443SA .500 | .250 | .047 | .203 NEV

DIA∮EDGE AMITSUBISHI MATERIALS U.S.A. X

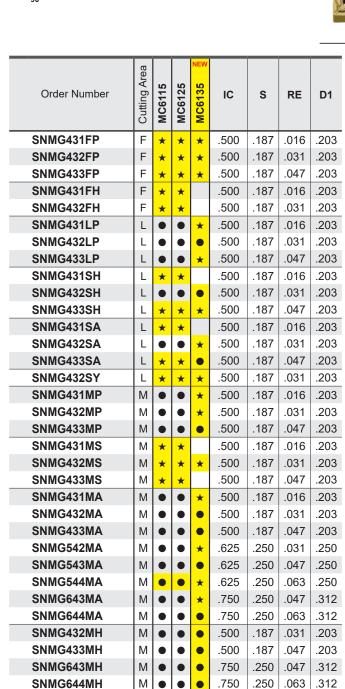
<sup>● :</sup> USA Stock ★ : Stocked in Japan (10 inserts in one case)

# MC6100 Series

Negative Inse	erts	; (\	۷i	th	Hole	<del>)</del> )		Medium MH S	Medium Standard	M	Med W	dium	RP R	ough	Rough		
M Class	[] [] [] []	ONMO ONMO ONMI EPSR <sup>T</sup> SO	G M		c	RE	-		Heavy	Heavy	IVI	de	per)	B	edium dard		
					IC	s	-									(inch	
Order Number	Cutting Area	MC6115	MC6125	MC6135 MA	IC	s	RE	D1	Order Number	Cutting Area	MC6115	MC6125	MC6135 R	IC	s	RE	D1
DNMG431MH	М	•	•	•	.500	.187	.016	.203	DNMM432HL	Н		*	*	.500	.187	.031	.203
DNMG432MH	М	•	•	•	.500	.187	.031	.203	DNMM433HL	Н		*	*	.500	.187	.047	.203
DNMG433MH	М	•	•	•	.500	.187	.047	.203	DNMM442HL	Н		*	*	.500	.250	.031	.203
DNMG441MH	М	•	•		.500	.250	.016	.203	DNMM443HL	Н		*	*	.500	.250	.047	.203
DNMG442MH	М	•	•	*	.500	.250	.031	.203	DNMM432HZ	Н	*	*	*	.500	.187	.031	.203
DNMG443MH	М	•	•	*	.500	.250	.047	.203	DNMM433HZ	н	*	*	*	.500	.187	.047	.203
DNMG332	М	*	*		.375	.187	.031	.150	DNMM442HZ	н	*	*	*	.500	.250	.031	.203
DNMG431	М	•	•	*	.500	.187	.016	.203	DNMM443HZ	н	*	*	*	.500	.250	.047	.203
DNMG432	М	•	•	•	.500	.187	.031	.203									
DNMG433	М	•	•	*	.500	.187	.047	.203									
DNMG434	М	•	•	*	.500	.187	.063	.203		a			NEW				
DNMG441	М	•	•	*	.500	.250	.016	.203		Cutting Area	2	2	2				
DNMG442	М	•	•	*	.500	.250	.031	.203	Order Number	ing	MC6115	MC6125	MC6135	IC	S	RE	D1
DNMG443	М	•	•	*	.500	.250	.047	.203		Srt	ğ	ğ	MC				
DNMG444	М	*	*	*	.500	.250	.063	.203	RNMG43					470	107		202
DNMX432MW	М	•	•		.500	.187	.031	.203	KNIVIG43	M		•	*	.472	.187		.203
DNMX433MW	М	•	*		.500	.187	.047	.203									= NEW
DNMX442MW	М	*	*		.500	.250	.031	.203									
DNMX443MW	М	*	*		.500	.250	.047	.203									
DNMG432RP	R	•	•	•	.500	.187	.031	.203									
DNMG433RP	R	•	•	•	.500	.187	.047	.203									
DNMG434RP	R	•	•	•	.500	.187	.063	.203									
DNMG442RP	R	•	•	*	.500	.250	.031	.203									
DNMG443RP	R	•	•	*	.500	.250	.047	.203									
DNMG444RP	R	•	•	*	.500	.250	.063	.203									
DNMG432GH	R	•	•	*	.500	.187	.031	.203									
DNMG433GH	R	•	•	*	.500	.187	.047	.203									
DNMG442GH	R	•	•	*	.500	.250	.031	.203									
DNMG443GH	R	•	•	*	.500	.250	.047	.203									

AMITSUBISHI MATERIALS U.S.A. DIA∯EDGE

Light Mediu



	FH	LP		S	Н		SA		SY				
			M.				I	3					
ium	Medium	Medi	ium		Med	dium	Me	dium					
	MS	MA		N	1H		Stand	dard					
		2											
										(inch)			
	Order Numb	er	Cutting Area	MC6115	MC6125	MC6135 A	IC	S	RE	D1			
S	Order Numb	er	∠ Cutting Area	<b>★</b> MC6115	<b>★</b> MC6125		IC .375	<b>s</b>	<b>RE</b>	<b>D1</b>			
		er	$\vdash$			MC6135							

M • • •

**SNMG432** 

**SNMG433** 

SNMG434

SNMG435

**SNMG543** 

SNMG544

**SNMG643** 

SNMG644

.187 .031 .203

.187 | .047 | .203

.187 | .063 | .203

.250 .047 .250

.250 | .063 | .312

.079 .203

.063 .250

.187

.250

.750 | .250 | .047 | .312

.500

.500

.500

.500

.625

.625

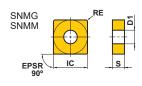
.750

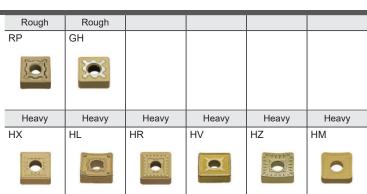
<sup>●:</sup> USA Stock ★: Stocked in Japan (10 inserts in one case)

# MC6100 Series

### **Negative Inserts (With Hole)**

M Class



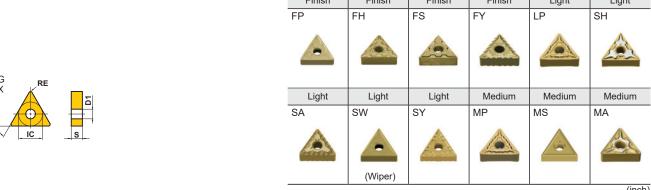


Order Number	Cutting Area	MC6115	MC6125	MC6135 R	IC	s	RE	D1	Order Number	Cutting Area	MC6115	MC6125	MC6135 ₹	IC	s	RE	D1
SNMG432RP	R	•	•	*	.500	.187	.031	.203	SNMM432HZ	Н	*	*	*	.500	.187	.031	.203
SNMG433RP	R	•	•	•	.500	.187	.047	.203	SNMM433HZ	Н	*	*	*	.500	.187	.047	.203
SNMG434RP	R	•	•	•	.500	.187	.063	.203	SNMM543HZ	Н	*	*	*	.625	.250	.047	.250
SNMG543RP	R	•	•	•	.625	.250	.047	.250	SNMM643HZ	Н	*	*	*	.750	.250	.047	.312
SNMG544RP	R	•	•	•	.625	.250	.063	.250	SNMM644HZ	Н	*	*	*	.750	.250	.063	.312
SNMG643RP	R	•	•	•	.750	.250	.047	.312	SNMM543HM	Н		*	*	.625	.250	.047	.250
SNMG644RP	R	•	•	•	.750	.250	.063	.312	SNMM643HM	Н		*	*	.750	.250	.047	.312
SNMG432GH	R	•	•	*	.500	.187	.031	.203	SNMM644HM	Н		*	*	.750	.250	.063	.312
SNMG433GH	R	•	•	*	.500	.187	.047	.203	SNMM646HM	Н		*	*	.750	.250	.094	.312
SNMG434GH	R	•	•		.500	.187	.063	.203	SNMM856HM	Н	*	*	*	1.000	.313	.094	.359
SNMG543GH	R	•	•		.625	.250	.047	.250	SNMM866HM	Н	*	*	*	1.000	.375	.094	.359
SNMG544GH	R	*	*		.625	.250	.063	.250								• =	NEW
SNMG643GH	R	•	•		.750	.250	.047	.312									



SNMG643GH	R				.750	.250	.047	.312
SNMG644GH	R	•	•		.750	.250	.063	.312
SNMM432HX	Н		*	*	.500	.187	.031	.203
SNMM433HX	Н		*	*	.500	.187	.047	.203
SNMM543HX	Н		*	*	.625	.250	.047	.250
SNMM643HX	Н	*	*	*	.750	.250	.047	.312
SNMM644HX	Н	*	*	*	.750	.250	.063	.312
SNMM646HX	Н	*	*	*	.750	.250	.094	.312
SNMM856HX	Н	*	*	*	1.000	.313	.094	.359
SNMM866HX	Н	*	*	*	1.000	.375	.094	.359
SNMM432HL	Н		*	*	.500	.187	.031	.203
SNMM433HL	Н		*	*	.500	.187	.047	.203
SNMM543HL	Н		*	*	.625	.250	.047	.250
SNMM643HL	Н		*	*	.750	.250	.047	.312
SNMM644HL	Н		*	*	.750	.250	.063	.312
SNMM646HL	Н		*	*	.750	.250	.094	.312
SNMM856HR	Н	*	*	•	1.000	.313	.094	.359
SNMM866HR	Н	*	*	*	1.000	.375	.094	.359
SNMM644HV	Н	*	*	*	.750	.250	.063	.312
SNMM646HV	Н	*	*	*	.750	.250	.094	.312
SNMM856HV	Н	*	*	*	1.000	.313	.094	.359
SNMM866HV	Н	*	•	•	1.000	.375	.094	.359
●: USA Stock ★: Sto (10 inserts in one case		d in	Japa	an				

**▲** MITSUBISHI MATERIALS U.S.A. DIA∳EDGE



IC

● ● .375 .187 .016 .150

● **★** .375 .187 .047 .150 .500 .187 .031 .203 ● ● .500 .187 .047 .203 625 .250 .031 .250 ● ● .625 .250 .047 .250

.375

RE D1

.375 | .187 | .016 | .150 .375 | .187 | .031 | .150 .375 | .187 | .047 | .150 .500 .187 .031 .203

.187 .031 .150 .375 | .187 | .047 | .150 .187 | .031 | .203

.187 | .031 | .150

										(Wiper)	3 6 7 7 3 7	
Order Number	Cutting Area	MC6115	MC6125	MC6135 M	IC	S	RE	D1		Order Numbe	er	Cutting Area
TNMG330.5FP	F	*	*	*	.375	.187	.008	.150		TNMG331MP	1	М
TNMG331FP	F	*	*	*	.375	.187	.016	.150		TNMG332MP		М
TNMG332FP	F	•	*	*	.375	.187	.031	.150		TNMG333MP		М
TNMG333FP	F	*	*	*	.375	.187	.047	.150	•	TNMG432MP		М
TNMG330.5FH	F	*	*	*	.375	.187	.008	.150	•	TNMG433MP		М
TNMG331FH	F	*	*		.375	.187	.016	.150		TNMG331MS		М
TNMG332FH	F	*	*	*	.375	.187	.031	.150		TNMG332MS		М
TNMG331FS	F		*	*	.375	.187	.016	.150		TNMG333MS		М
TNMG332FS	F		*	*	.375	.187	.031	.150		;	М	
TNMG331FY	F	*	*	*	.375	.187	.016	.150			М	
TNMG332FY	F	*	*	*	.375	.187	.031	.150		1	М	
TNMG331LP	L	•	•	•	.375	.187	.016	.150		TNMG333MA		М
TNMG332LP	L	•	•	•	.375	.187	.031	.150		TNMG432MA		М
TNMG333LP	L	•	•	*	.375	.187	.047	.150	•	TNMG433MA	١	М
TNMG432LP	L	•	•	*	.500	.187	.031	.203		TNMG542MA		М
TNMG433LP	L	•	•	*	.500	.187	.047	.203		TNMG543MA	١	М
TNMG331SH	L	•	•	*	.375	.187	.016	.150				
TNMG332SH	L	•	•	*	.375	.187	.031	.150				
TNMG432SH	L	•	•		.500	.187	.031	.203				
TNMG331SA	L	•	•	*	.375	.187	.016	.150				
TNMG332SA	L	•	•	•	.375	.187	.031	.150				
TNMG333SA	L	•	•	*	.375	.187	.047	.150				
TNMG432SA	L	•	•	•	.500	.187	.031	.203				
TNMG433SA	L	•	•		.500	.187	.047	.203				
TNMX331SW	L	•	*		.375	.187	.016	.150				
TNMX332SW	L	•	•		.375	.187	.031	.150				
TNMG331SY	L	*	*	*	.375	.187	.016	.150				
TNMG332SY	L	*	*	*	.375	.187	.031	.150				

# MC6100 Series

### **Negative Inserts (With Hole)**

M Class







																	(inch)
Order Number	Cutting Area	MC6115	MC6125	MC6135 A	IC	s	RE	D1	Order Number	Cutting Area	MC6115	MC6125	MC6135 <sup>≅</sup>	IC	s	RE	D1
TNMG331MH	М	•	•	*	.375	.187	.016	.150	TNMG332RP	R	•	•	*	.375	.187	.031	.150
TNMG332MH	М	•	•	•	.375	.187	.031	.150	TNMG333RP	R	•	•	*	.375	.187	.047	.150
TNMG333MH	М	•	•	*	.375	.187	.047	.150	TNMG432RP	R	•	•	•	.500	.187	.031	.203
TNMG432MH	М	•	•	•	.500	.187	.031	.203	TNMG433RP	R	•	•	•	.500	.187	.047	.203
TNMG433MH	М	•	•	•	.500	.187	.047	.203	TNMG434RP	R	•	•	•	.500	.187	.063	.203
TNMG221	М	*	*	*	.250	.125	.016	.089	TNMG543RP	R	•	•	•	.625	.250	.047	.250
TNMG222	М	•	•	*	.250	.125	.031	.089	TNMG544RP	R	•	•		.625	.250	.063	.250
TNMG321	М	•	•	•	.375	.125	.016	.150	TNMG332GH	R	•	•	*	.375	.187	.031	.150
TNMG322	М	•	•	•	.375	.125	.031	.150	TNMG333GH	R	•	•		.375	.187	.047	.150
TNMG331	М	•	•	*	.375	.187	.016	.150	TNMG432GH	R	•	•	*	.500	.187	.031	.203
TNMG332	М	•	•	•	.375	.187	.031	.150	TNMG433GH	R	•	•	*	.500	.187	.047	.203
TNMG333	М	•	•	*	.375	.187	.047	.150	TNMG434GH	R	•	•		.500	.187	.063	.203
TNMG334	М	•	*	*	.375	.187	.063	.150	TNMG543GH	R	•	•	•	.625	.250	.047	.250
TNMG431	М	•	•	•	.500	.187	.016	.203	TNMG544GH	R	•	•		.625	.250	.063	.250
TNMG432	М	•	•	•	.500	.187	.031	.203	TNMM332HL	Н		•	*	.375	.187	.031	.150
TNMG433	М	•	•	•	.500	.187	.047	.203	TNMM333HL	Н		*	*	.375	.187	.047	.150
TNMG434	М	•	•	•	.500	.187	.063	.203	TNMM432HL	Н		*	*	.500	.187	.031	.203
TNMG542	М	•	*	•	.625	.250	.031	.250	TNMM433HL	Н		*	*	.500	.187	.047	.203
TNMG543	М	*	•	•	.625	.250	.047	.250	TNMM434HL	Н		*	*	.500	.187	.063	.203
TNMG544	М	•	•	*	.625	.250	.063	.250	TNMM332HZ	Н	*	*	*	.375	.187	.031	.150
TNMX332MW	М	*	*		.375	.187	.031	.150	TNMM333HZ	Н		*	*	.375	.187	.047	.150
TNMX333MW	М	•	*		.375	.187	.047	.150	TNMM432HZ	Н	*	*	*	.500	.187	.031	.203
TNMG331RES	М	*	*		.375	.187	.016	.150	TNMM433HZ	Н	*	*	*	.500	.187	.047	.203
TNMG331LES	М	*	*		.375	.187	.016	.150	TNMM434HZ	Н	*	*	*	.500	.187	.063	.203
TNMG332RES	М	*	*		.375	.187	.031	.150								• :	NEW
TNMG332LES	М	*	*		.375	.187	.031	.150									

.500 .187 .031 .203

.500 .187 .031 .203

● : USA Stock ★ : Stocked in Japan (10 inserts in one case)

TNMG432RES

TNMG432LES

DIA∮EDGE AMITSUBISHI MATERIALS U.S.A. X

Finish	Finish	Finish	Light	Light	Light
FP	FH	FS	LP	SH	SA
				AST .	25)
Medium	Medium	Medium	Medium	Medium	
MP	MS	MA	МН	Standard	
29/		100			
					(inch)

Order Number	Cutting Area	MC6115	MC6125	MC6135 ₹	IC	s	RE	D1
VNMG330.5FP	F	•	•	•	.375	.187	.008	.150
VNMG331FP	F	•	•	*	.375	.187	.016	.150
VNMG332FP	F	•	•	•	.375	.187	.031	.150
VNMG333FP	F	*	*	*	.375	.187	.047	.150
VNMG330.5FH	F	•	•	•	.375	.187	.008	.150
VNMG331FH	F	*	•	*	.375	.187	.016	.150
VNMG332FH	F	•	•	*	.375	.187	.031	.150
VNMG331FS	F		*	*	.375	.187	.016	.150
VNMG332FS	F		•	•	.375	.187	.031	.150
VNMG331LP	L	•	•	•	.375	.187	.016	.150
VNMG332LP	L	•	•	•	.375	.187	.031	.150
VNMG331SH	L	•	•	*	.375	.187	.016	.150
VNMG332SH	L	•	•	•	.375	.187	.031	.150
VNMG331SA	L	•	*	*	.375	.187	.016	.150
VNMG332SA	L	•	•	•	.375	.187	.031	.150

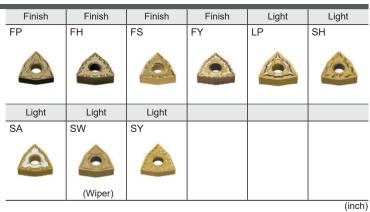
									(inch)
D1	Order Number	Cutting Area	MC6115	MC6125	MC6135 ₹	IC	S	RE	D1
.150	VNMG331MP	М	•	•	•	.375	.187	.016	.150
.150	VNMG332MP	М	•	•	•	.375	.187	.031	.150
.150	VNMG333MP	М	•	•	•	.375	.187	.047	.150
.150	VNMG331MS	М	•	•		.375	.187	.016	.150
.150	VNMG332MS	М	•	•		.375	.187	.031	.150
.150	VNMG331MA	М	•	•	•	.375	.187	.016	.150
.150	VNMG332MA	М	•	•	•	.375	.187	.031	.150
.150	VNMG331MH	М	•	•	•	.375	.187	.016	.150
.150	VNMG332MH	М	•	•	•	.375	.187	.031	.150
.150	VNMG331	М	•	•	*	.375	.187	.016	.150
.150	VNMG332	М	•	•	•	.375	.187	.031	.150
.150	VNMG333	М	•	•	*	.375	.187	.047	.150
.150								• :	NEW
.150									
.150									

# MC6100 Series

### **Negative Inserts (With Hole)** M Class







									(Wipor)								(inch)
Order Number	Cutting Area	MC6115	MC6125	MC6135 M	IC	S	RE	D1	Order Number	Cutting Area	MC6115	MC6125	MC6135 M	IC	S	RE	D1
WNMG430.5FP	F	•	*	*	.500	.187	.008	.203	WNMG431SA	L	•	•	*	.500	.187	.016	.203
WNMG431FP	F	*	*	*	.500	.187	.016	.203	WNMG432SA	L	•	•	•	.500	.187	.031	.203
WNMG432FP	F	•	*	*	.500	.187	.031	.203	WNMG433SA	L	•	•	*	.500	.187	.047	.203
WNMG433FP	F	*	*	*	.500	.187	.047	.203	WNMG331SW	L	•	*		.375	.187	.016	.150
WNMG431FH	F	*	•		.500	.187	.016	.203	WNMG332SW	L	•	*		.375	.187	.031	.150
WNMG432FH	F	*	*		.500	.187	.031	.203	WNMG431SW	L	•	•		.500	.187	.016	.203
WNMG431FS	F		*	*	.500	.187	.016	.203	WNMG432SW	L	•	•		.500	.187	.031	.203
WNMG432FS	F		•	•	.500	.187	.031	.203	WNMG433SW	L	•	•		.500	.187	.047	.203
WNMG432FY	F	*	*	*	.500	.187	.031	.203	WNMG432SY	L	*	*	*	.500	.187	.031	.203
WNMG32.51LP	L	*	*	*	.375	.156	.016	.150								• =	NEW
WNMG32.52LP	L	*	*	*	.375	.156	.031	.150									
WNMG331LP	L	•	•	*	.375	.187	.016	.150									
WNMG332LP	L	•	*	*	.375	.187	.031	.150									
WNMG431LP	L	•	•	•	.500	.187	.016	.203									
WNMG432LP	L	•	•	•	.500	.187	.031	.203									
WNMG433LP	L	•	•	•	.500	.187	.047	.203									
WNMG32.51SH	L	*	*		.375	.156	.016	.150									
WNMG32.52SH	L	*	*		.375	.156	.031	.150									
WNMG331SH	L	•	*		.375	.187	.016	.150									

.187 .031 .150

.187 .016 .203

.187 | .031 | .203

.187 .047 .203

.375

.500

.500

L • • .500

● : USA Stock ★ : Stocked in Japan (10 inserts in one case)

WNMG332SH

WNMG431SH

WNMG432SH

WNMG433SH

**▲** MITSUBISHI MATERIALS U.S.A. DIA∳EDGE

Medium Medium Medium Medium Standard (Wiper) (inch)

Order Number	Cutting Area	MC6115	MC6125	MC6135 M	IC	s	RE	D1
WNMG32.51MP	М	*	•	•	.375	.156	.016	.150
WNMG32.52MP	М	*	•	•	.375	.156	.031	.150
WNMG32.53MP	М	*	*	*	.375	.156	.047	.150
WNMG331MP	М	*	•	*	.375	.187	.016	.150
WNMG332MP	М	•	•	•	.375	.187	.031	.150
WNMG333MP	М	*	•	•	.375	.187	.047	.150
WNMG431MP	М	•	•	•	.500	.187	.016	.203
WNMG432MP	М	•	•	•	.500	.187	.031	.203
WNMG433MP	М	•	•	•	.500	.187	.047	.203
WNMG434MP	М	•	•	•	.500	.187	.063	.203
WNMG32.51MS	М	*	*		.375	.156	.016	.150
WNMG32.52MS	М	*	*		.375	.156	.031	.150
WNMG331MS	М	*	*		.375	.187	.016	.150
WNMG332MS	М	*	*		.375	.187	.031	.150
WNMG431MS	М	*	*	*	.500	.187	.016	.203
WNMG432MS	М	*	*	*	.500	.187	.031	.203
WNMG433MS	М	*	*		.500	.187	.047	.203
WNMG32.51MA	М	*	*		.375	.156	.016	.150
WNMG32.52MA	М	*	*		.375	.156	.031	.150
WNMG32.53MA	М	*	*		.375	.156	.047	.150
WNMG331MA	М	•	•	•	.375	.187	.016	.150
WNMG332MA	М	•	•	•	.375	.187	.031	.150
WNMG333MA	М	•	*	*	.375	.187	.047	.150
WNMG431MA	М	•	•	•	.500	.187	.016	.203
WNMG432MA	М	•	•	•	.500	.187	.031	.203
WNMG433MA	М	•	•	•	.500	.187	.047	.203
WNMG434MA	М	•	•		.500	.187	.063	.203
WNMG543MA	М		•	•	.625	.250	.047	.250
WNMG431MH	М	•	•	•	.500	.187	.016	.203
WNMG432MH	М	•	•	•	.500	.187	.031	.203
WNMG433MH	М	•	•	•	.500	.187	.047	.203
WNMG431	М	•	•	•	.500	.187	.016	.203
WNMG432	М	•	•	•	.500	.187	.031	.203
WNMG433	М	•	•	*	.500	.187	.047	.203

WNMG

									(inch)
ı	Order Number	Cutting Area	MC6115	MC6125	MC6135 ₹	IC	s	RE	D1
0	WNMG332MW	М	•	•	*	.375	.187	.031	.150
0	WNMG333MW	М	*	*	*	.375	.187	.047	.150
0	WNMG432MW	М	•	•	•	.500	.187	.031	.203
0	WNMG433MW	М	•	•	*	.500	.187	.047	.203
0	WNMG432RP	R	•	•	•	.500	.187	.031	.203
0	WNMG433RP	R	•	•	•	.500	.187	.047	.203
3	WNMG434RP	R	*	*		.500	.187	.063	.203
3	WNMG432GH	R	•	•	*	.500	.187	.031	.203
3	WNMG433GH	R	•	•	•	.500	.187	.047	.203
3								• :	NEW
0									
0									
0									
0									
3									
3									
3									
0									
0									

# MC6100 Series

5° Positive Ins	er	rts	<b>(V</b>	Vit	h Ho	ole)				Finish	Lig	ht	.,		ght		dium		dium
M Class			<b>- )</b> דאש׳			,				FP	FV		LF	-		MP		MV	
TBMT RE		V	EP:	sR∜	IC		RE S	AN 5°			_		4	20				The state of the s	
EPSR IC S	AN 5°	٧	VBM	3 <b>5°</b> `	EPS 80°		- 5	-		Finish FV			M		dium				
00   10					RÉ IC		S	AN 5°	-										(inch
Order Number	Cutting Area	MC6115	MC6125	MC6135 M	IC	s	RE	D1		Order Numb	er	Cutting Area	MC6115	MC6125	MC6135 M	IC	S	RE	D1
TBMT1.210.5FV	F	•		•	.156	.063	.008	.091	W	BMT1.51.50	.5RMV	М	П	*	*	.187	.094	.008	.091
TBMT1.211FV	F	•		•	.156	.063	.016	.091	W	BMT1.51.50	.5LMV	М		*	*	.187	.094	.008	.091
VBMT220.5FP	F	•	•	•	.250	.125	.008	.114	W	BMT1.51.51	RMV	М		*	*	.187	.094	.016	.091
VBMT221FP	F	•	*	•	.250	.125	.016	.114	W	BMT1.51.51	LMV	М		*	*	.187	.094	.016	.091
VBMT222FP	F	•	*	•	.250	.125	.031	.114										• :	NEW
VBMT331FP	F	•	*	•	.375	.187	.016	.173											
VBMT332FP	F	*	*	*	.375	.187	.031	.173											
VBMT333FP	F	•	•	•	.375	.187	.047	.173											
VBMT221FV	F	•	*	*	.250	.125	.016	.114											
VBMT222FV	F		•	*	.250	.125	.031	.114											
VBMT331FV	F	•	•	*	.375	.187	.016	.173											
VBMT332FV	F	•	•	*	.375	.187	.031	.173											
VBMT221LP	L	•	•	*	.250	.125	.016	.114											
VBMT222LP	L	•	•		.250	.125	.031	.114											
VBMT331LP	L	•	•	*	.375	.187	.016	.173											
VBMT332LP	L	•	•		.375	.187	.031	.173											
VBMT333LP	L	•	•	•	.375	.187	.047	.173											
VBMT331MP	M	•	*	•	.375	.187	.016	.173											
VBMT332MP	М				.375	.187	.031	.173											
VBMT221MV	М	Ť	•	•	.250	.125	.016	.114											
VBMT222MV	М		•		.250	.125	.031	.114											
VBMT331MV	М		*		.375	.187	.016	.173											
VBMT332MV	М		Î		.375	.187	.031	.173											

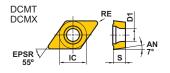
																	(inch)
Order Number	Cutting Area	MC6115	MC6125	MC6135 A	IC	s	RE	D1	Order Number	Cutting Area	MC6115	MC6125	MC6135 M	IC	s	RE	D1
CCMT21.50.5FP	F	•	•	•	.250	.094	.008	.110	CCMT21.50.5MP	М	•	•	•	.250	.094	.008	.110
CCMT21.51FP	F	•	•	•	.250	.094	.016	.110	CCMT21.51MP	М	•	•		.250	.094	.016	.110
CCMT32.50.5FP	F	•	•	•	.375	.156	.008	.173	CCMT21.52MP	М	•	•		.250	.094	.031	.110
CCMT32.51FP	F	•	•	•	.375	.156	.016	.173	CCMT2.520.5MP	М	*	*		.313	.125	.008	.134
CCMT32.52FP	F	•	•	•	.375	.156	.031	.173	CCMT2.521MP	М	*	*		.313	.125	.016	.134
CCMT21.50.5FV	F		•	•	.250	.094	.008	.110	CCMT2.522MP	М	*	*		.313	.125	.031	.134
CCMT21.51FV	F		•	•	.250	.094	.016	.110	CCMT32.50.5MP	М	•	•		.375	.156	.008	.173
CCMT32.50.5FV	F		*	*	.375	.156	.008	.173	CCMT32.51MP	М	•	•		.375	.156	.016	.173
CCMT32.51FV	F		•	•	.375	.156	.016	.173	CCMT32.52MP	М	•	•		.375	.156	.031	.173
CCMT32.52FV	F		•	•	.375	.156	.031	.173	CCMT431MP	М	•	•		.500	.187	.016	.217
CCMT21.50.5LP	L	•	*	*	.250	.094	.008	.110	CCMT432MP	М	•	•		.500	.187	.031	.217
CCMT21.51LP	L	•	•	•	.250	.094	.016	.110	CCMT433MP	М	*	*	*	.500	.187	.047	.217
CCMT21.52LP	L	•	•	*	.250	.094	.031	.110	CCMH21.50.5MV	М		*	*	.250	.094	.008	.110
CCMT32.50.5LP	L	•	•	•	.375	.156	.008	.173	CCMH21.51MV	М		•		.250	.094	.016	.110
CCMT32.51LP	L	•	•	•	.375	.156	.016	.173	CCMT21.51MW	М	*	*		.250	.094	.016	.110
CCMT32.52LP	L	•	•	•	.375	.156	.031	.173	CCMT21.52MW	М	•	•	*	.250	.094	.031	.110
CCMT21.50.5SW	L	•	*	*	.250	.094	.008	.110	CCMT32.51MW	М	•	•		.375	.156	.016	.173
CCMT21.51SW	L	*	*	*	.250	.094	.016	.110	CCMT32.52MW	М	•	•		.375	.156	.031	.173
CCMT21.52SW	L	•	•	•	.250	.094	.031	.110	CCMT431MW	М	*	*		.500	.187	.016	.217
CCMT32.50.5SW	L	•	•	•	.375	.156	.008	.173	CCMT432MW	М	*	*	*	.500	.187	.031	.217
CCMT32.51SW	L	•	•	•	.375	.156	.016	.173								•	= NEW
CCMT32.52SW	L	•	•	•	.375	.156	.031	.173									

<sup>●:</sup> USA Stock ★: Stocked in Japan (10 inserts in one case)

# MC6100 Series

### 7° Positive Inserts (With Hole)

M Class





																	(inch)
Order Number	Cutting Area	MC6115	MC6125	MC6135 AM	IC	s	RE	D1	Order Number	Cutting Area	MC6115	MC6125	MC6135 M	IC	s	RE	D1
DCMT21.50.5FP	F	•	*	*	.250	.094	.008	.110	DCMT21.50.5MP	М	*	•	*	.250	.094	.008	.110
DCMT21.51FP	F	•	•	•	.250	.094	.016	.110	DCMT21.51MP	М	•	•		.250	.094	.016	.110
DCMT32.50.5FP	F	•	*	•	.375	.156	.008	.173	DCMT21.52MP	М	*	•		.250	.094	.031	.110
DCMT32.51FP	F	•	•	•	.375	.156	.016	.173	DCMT32.50.5MP	М	*	•	*	.375	.156	.008	.173
DCMT32.52FP	F	•	•	*	.375	.156	.031	.173	DCMT32.51MP	М	•	•		.375	.156	.016	.173
DCMT21.50.5FV	F	*	*	*	.250	.094	.008	.110	DCMT32.52MP	М	•	•		.375	.156	.031	.173
DCMT21.51FV	F	*	•	•	.250	.094	.016	.110	DCMT32.53MP	М	*	•		.375	.156	.047	.173
DCMT21.52FV	F		•	*	.250	.094	.031	.110	DCMT431MP	М	•	•	*	.500	.187	.016	.217
DCMT32.50.5FV	F		•	*	.375	.156	.008	.173	DCMT432MP	М	•	*		.500	.187	.031	.217
DCMT32.51FV	F	*	•	•	.375	.156	.016	.173	DCMT433MP	М	*	*		.500	.187	.047	.217
DCMT32.52FV	F	*	•	•	.375	.156	.031	.173	DCMT21.50.5MV	М	*	•	*	.250	.094	.008	.110
DCMT21.50.5LP	L	•	*	*	.250	.094	.008	.110	DCMT21.51MV	М	*	*		.250	.094	.016	.110
DCMT21.51LP	L	•	•	•	.250	.094	.016	.110	<b>DCMT21.52MV</b>	М	*	*		.250	.094	.031	.110
DCMT21.52LP	L	*	•	•	.250	.094	.031	.110	DCMT32.50.5MV	М	*	•		.375	.156	.008	.173
DCMT32.50.5LP	L	*	•	*	.375	.156	.008	.173	DCMT32.51MV	М	*	•		.375	.156	.016	.173
DCMT32.51LP	L	•	•	•	.375	.156	.016	.173	DCMT32.52MV	М	*	*		.375	.156	.031	.173
DCMT32.52LP	L	•	•		.375	.156	.031	.173								• =	NEW
DCMX21.50.5SW	L	•	•	•	.250	.094	.008	.110									
DCMX21.51SW	L	•	•	•	.250	.094	.016	.110									
DCMX21.52SW	L	•	•	•	.250	.094	.031	.110									

.156 .016 .173

● : USA Stock ★ : Stocked in Japan (10 inserts in one case)

DCMX32.50.5SW

DCMX32.51SW

DCMX32.52SW

L • • .375

L • • .375

L • • .375 .156 .031 .173

Medium Standard Finish Finish Medium SCMT Cutting Are
MC6115
MC6125
MC6135 Order Number IC Order Number S RE RE **RCMT0602M0** .236 .094 SCMT32.51FP .375 .156 .016 .173 .315 .125 .134 .375 SCMT32.52FP .156 | .031 | .173 RCMT0803M0 RCMX1003M0 .394 .125 .142 **SCMT32.51FV** .375 .156 .016 .173 .472 .187 -.165 RCMX1204M0 SCMT32.51LP .375 .156 | .016 | .173 .630 .250 RCMX1606M0 SCMT32.52LP .375 .156 | .031 | .173 RCMX2006M0 .787 .250 -.256 SCMT32.51MP .375 .156 .016 .173 .984 .313 .283 RCMX2507M0 SCMT32.52MP | M | ● | ★ | ● .375 .156 | .031 | .173 1.260 .375 -.500 .187 .016 .217 RCMX3209M0 SCMT431MP R \* \* \* .630 .250 M ★ ★ ● .500 | .187 | .031 | .217 RCMX1606M0-RR SCMT432MP R \* \* \* .256 .500 .187 .047 .217 RCMX2006M0-RR .787 .250 -SCMT433MP RCMX2507M0-RR .984 .313 .283 RCMX3209M0-RR R ★ ★ ★ 1.260 .375 -

# MC6100 Series

7° Positive Ins	er	ts	<b>(</b> \	Vit	h Ho	ole)			Finish Finis	sh			ght		ight	-	dium
M Class			,-	•		,,			FP FV		L	Р		SW		MP	
W Olass		CMX			RE		AN AN					A	A	(W	/iper)		
		EPS	$\nabla$		ic	s			Finish Finis	sh		Lig	ght	Me	dium	Med	dium
		6	00	-	-		_		FP FV		L	Р		MP		MV	
	٧	CMT EPS 3			IC	RE	7 17	AN **			•						
				NEW									NEW				(inch)
Order Number	Cutting Area	MC6115	MC6125	MC6135	IC	S	RE	D1	Order Number	Cutting Area	MC6115	MC6125	MC6135	IC	S	RE	D1
TCMT1.81.50.5FP	F	*	*	*	.219	.094	.008	.098	VCMT1.51.50.5FP	F	•	•	•	.187	.094	.008	.094
TCMT1.81.51FP	F	•	*	*	.219	.094	.016	.098	VCMT1.51.51FP	F	•	•	•	.187	.094	.016	.094
TCMT21.50.5FP	F	•	*	*	.250	.094	.008	.110	VCMT220.5FP	F	*	•	*	.250	.125	.008	.110
TCMT21.51FP	F	•	•	•	.250	.094	.016	.110	VCMT221FP	F	•	•	•	.250	.125	.016	.110
TCMT32.51FP	F	*	*	*	.375	.156	.016	.173	VCMT331FP	F	•	•	*	.375	.187	.016	.173
TCMT21.51FV	F		•	•	.250	.094	.016	.110	VCMT332FP	F	*	•	*	.375	.187	.031	.173
TCMT32.51FV	F		*	*	.375	.156	.016	.173	VCMT1.51.50.5FV	F		*		.187	.094	.008	.094
TCMT1.81.51LP	L	*	•	*	.219	.094	.016	.098	VCMT1.51.51FV	F		*	•	.187	.094	.016	.094
TCMT1.81.52LP	L	*	*	*	.219	.094	.031	.098	VCMT331FV	F	*	•	•	.375	.187	.016	.173
TCMT21.50.5LP	L	•	•	•	.250	.094	.008	.110	VCMT332FV	F	*	•	•	.375	.187	.031	.173
TCMT21.51LP	L	•	•	•	.250	.094	.016	.110	VCMT1.51.50.5LP	L	•	•	*	.187	.094	.008	.094
TCMT21.52LP	L	*	•	*	.250	.094	.031	.110	VCMT1.51.51LP	L	•	•	*	.187	.094	.016	.094
TCMT32.51LP	L	•	•	*	.375	.156	.016	.173	VCMT221LP	L	•	•	*	.250	.125	.016	.110
TCMT32.52LP	L	•	•	*	.375	.156	.031	.173	VCMT222LP	L	•	•	*	.250	.125	.031	.110
TCMX1.81.51SW	L	•	•	•	.219	.094	.016	.098	VCMT331LP	L	•	•	*	.375	.187	.016	.173
TCMX21.51SW	L	•	•	•	.250	.094	.016	.110	VCMT332LP	L	•	•	*	.375	.187	.031	.173
TCMT1.81.51MP	М	•	*	*	.219	.094	.016	.098	VCMT221MP	М	•	*	•	.250	.125	.016	.110
TCMT1.81.52MP	М	*	•	*	.219	.094	.031	.098	VCMT331MP	М	•	*	•	.375	.187	.016	.173
TCMT21.50.5MP	М	*	•	*	.250	.094	.008	.110	VCMT332MP	М	•	*	•	.375	.187	.031	.173
TCMT21.51MP	М	•	•	•	.250	.094	.016	.110	VCMT333MP	М	*	*	*	.375	.187	.047	.173
TCMT21.52MP	М	•	•	•	.250	.094	.031	.110	VCMT1.51.50.5MV	М		•	*	.187	.094	.008	.094
TCMT2.521MP	М	*	*	•	.313	.125	.016	.134	VCMT1.51.51MV	М		*	•	.187	.094	.016	.094
TCMT32.51MP	М	•	•	•	.375	.156	.016	.173					,			• :	NEW
TCMT32.52MP	М	•	*	•	.375	.156	.031	.173									
TCMT32.53MP	М	•	*	*	.375	.156	.047	.173									

●: USA Stock ★: Stocked in Japan (10 inserts in one case)

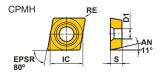
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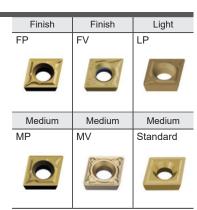
															nish		dium
														FV		MP	
	WCMT 80° AN 7° AN 7°									Fi	nish	L					
	X	CMT	Г			RE	2										
			_			7											
		E 2	PSR 25°	-	IC	- 8	AN 7°										
	_			NEW						_			NEW				(inch)
Order Number	Cutting Area	MC6115	MC6125	MC6135	IC	s	RE	D1	Order Number	Cutting Area	MC6115	MC6125	MC6135	IC	s	RE	D1
WCMT1.210.5FV	F		•		.156	.063	.008	.091	XCMT221SVX	F		•	*	.250	.125	.016	.112
WCMT1.211FV	F		•		.156	.063	.016	.091	XCMT222SVX	F		*		.250	.125	.031	.112
WCMT1.51.50.5FV	F		•		.187	.094	.008	.091								• =	NEW
WCMT1.51.51FV	F		•		.187	.094	.016	.091									
WCMT21.50.5FV	F		•		.250	.094	.008	.110									
WCMT21.51FV	F		•		.250	.094	.016	.110									
WCMT32.50.5FV	F		•		.375	.156	.008	.173									
WCMT32.51FV	F		•		.375	.156	.016	.173									
WCMT1.210.5MP	М	•	•	•	.156	.063	.008	.091									
WCMT1.211MP	М	•	•	•	.156	.063	.016	.091									
WCMT1.51.50.5MP	М	•	•		.187	.094	.008	.091									
WCMT1.51.51MP	М	•	*		.187	.094	.016	.091									
WCMT21.50.5MP	М	•	•	•	.250	.094	.008	.110									
WCMT21.51MP	М	•	•	•	.250	.094	.016	.110									
WCMT21.52MP	М		•	•	.250	.094	.031	.110									
WCMT32.51MP	М	•	•	•	.375	.156	.016	.173									
WCMT32.52MP	М	•	•	•	.375	.156	.031	.173									

# MC6100 Series

### 11° Positive Inserts (With Hole)

M Class





																	(inch)
Order Number	Cutting Area	MC6115	MC6125	MC6135 A	IC	s	RE	D1	Order Number	Cutting Area	MC6115	MC6125	MC6135 A	IC	s	RE	D1
CPMH2.51.50.5FP	F		•	•	.313	.094	.008	.138	CPMH2.51.51MP	М	•	•	•	.313	.094	.016	.138
CPMH2.51.51FP	F		•	•	.313	.094	.016	.138	CPMH2.51.52MP	М	•	•	•	.313	.094	.031	.138
CPMH320.5FP	F		•	•	.375	.125	.008	.177	CPMH321MP	М	•	•	•	.375	.125	.016	.177
CPMH321FP	F		•	•	.375	.125	.016	.177	CPMH322MP	М	•	•		.375	.125	.031	.177
 CPMH322FP	F		•	•	.375	.125	.031	.177	CPMH2.51.51MV	М		•	•	.313	.094	.016	.138
CPMH2.51.50.5FV	F		*	*	.313	.094	.008	.138	CPMH2.51.52MV	М		•	•	.313	.094	.031	.138
CPMH2.51.51FV	F		*	*	.313	.094	.016	.138	CPMH321MV	М		•	•	.375	.125	.016	.177
CPMH320.5FV	F		*	*	.375	.125	.008	.177	CPMH322MV	М		•		.375	.125	.031	.177
CPMH321FV	F		•	*	.375	.125	.016	.177	CPMH2.51.51	М	•	•		.313	.094	.016	.138
CPMH322FV	F		•	*	.375	.125	.031	.177	CPMH2.51.52	М	•	•		.313	.094	.031	.138
CPMH2.51.50.5LP	L		*	*	.313	.094	.008	.138	CPMH321	М	•	•		.375	.125	.016	.177
CPMH2.51.51LP	L	•	*	*	.313	.094	.016	.138	CPMH322	М	•	•	*	.375	.125	.031	.177
CPMH2.51.52LP	L	•	•	•	.313	.094	.031	.138								• :	NEW
CPMH320.5LP	L		*	*	.375	.125	.008	.177									
CPMH321LP	L	•	*	*	.375	.125	.016	.177									
CPMH322LP	L	•	*	*	.375	.125	.031	.177									

● : USA Stock ★ : Stocked in Japan (10 inserts in one case)

DIA∮EDGE AMITSUBISHI MATERIALS U.S.A. X

FP FV LP SW

Wigner

Medium

MV

Order Number	Cutting Area	MC6115	MC6125	MC6135 <sup>≅</sup>	IC	S	RE	D1
TPMH1.81.50.5FP	F	•	•	•	.219	.094	.008	.114
TPMH1.81.51FP	F	•	•	•	.219	.094	.016	.114
TPMH220.5FP	F	•	•	•	.250	.125	.008	.134
TPMH221FP	F	•	•	•	.250	.125	.016	.134
TPMH222FP	F	•	•	•	.250	.125	.031	.134
TPMH1.51.50.5FV	F		*	*	.187	.094	.008	.094
TPMH1.51.51FV	F		•	*	.187	.094	.016	.094
TPMH1.81.50.5FV	F		*	*	.219	.094	.008	.114
TPMH1.81.51FV	F		•	*	.219	.094	.016	.114
TPMH220.5FV	F		•	*	.250	.125	.008	.134
TPMH221FV	F	•	•	*	.250	.125	.016	.134
TPMH222FV	F	•	•	*	.250	.125	.031	.134
TPMH320.5FV	F		•	*	.375	.125	.008	.173
TPMH321FV	F	•	•	*	.375	.125	.016	.173
TPMH322FV	F		•	*	.375	.125	.031	.173
TPMH1.51.50.5LP	L		*	*	.187	.094	.008	.094
TPMH1.51.51LP	L		*	*	.187	.094	.016	.094
TPMH1.81.50.5LP	L	•	•	*	.219	.094	.008	.114
TPMH1.81.51LP	L	•	*	*	.219	.094	.016	.114
TPMH220.5LP	L	•	*	*	.250	.125	.008	.134
TPMH221LP	L	•	*	*	.250	.125	.016	.134
TPMH222LP	L	•	*	*	.250	.125	.031	.134
TPMH320.5LP	L	•	*	*	.375	.125	.008	.173
TPMH321LP	L	•	*		.375	.125	.016	.173
TPMH322LP	L	•	•		.375	.125	.031	.173
TPMX1.81.50.5SW	L	•	•		.219	.094	.008	.114
TPMX1.81.51SW	L	•	•		.219	.094	.016	.114
TPMX1.81.52SW	L	•	•		.219	.094	.031	.114
TPMX220.5SW	L	•	•		.250	.125	.008	.134
TPMX221SW	L	•	•		.250	.125	.016	.134
TPMX222SW	L	•	•	•	.250	.125	.031	.134

FP		F	FV		LP		SW		
					4		(Wi	iper)	
Med	ium								
MV									
								(inch	
Order Number	Cutting Area	MC6115	MC6125	MC6135 ≅	IC	s	RE	D1	
TPMH1.51.50.5MV	М		*	*	.187	.094	.008	.094	
TPMH1.51.51MV	М		*	*	.187	.094	.016	.094	
TPMH1.81.50.5MV	М		*	*	.219	.094	.008	.114	
TPMH1.81.51MV	М		*	*	.219	.094	.016	.114	
TPMH1.81.52MV	М		*	*	.219	.094	.031	.114	
TPMH220.5MV	М		*	*	.250	.125	.008	.134	
TPMH221MV	М		*	*	.250	.125	.016	.134	
TPMH222MV	М		*	*	.250	.125	.031	.134	
TPMH321MV	М		•	•	.375	.125	.016	.173	
TPMH322MV	М		•	•	.375	.125	.031	.173	
							•	= NEW	

Finish

Light

# MC6100 Series

### 11° Positive Inserts (With Hole)

M Class





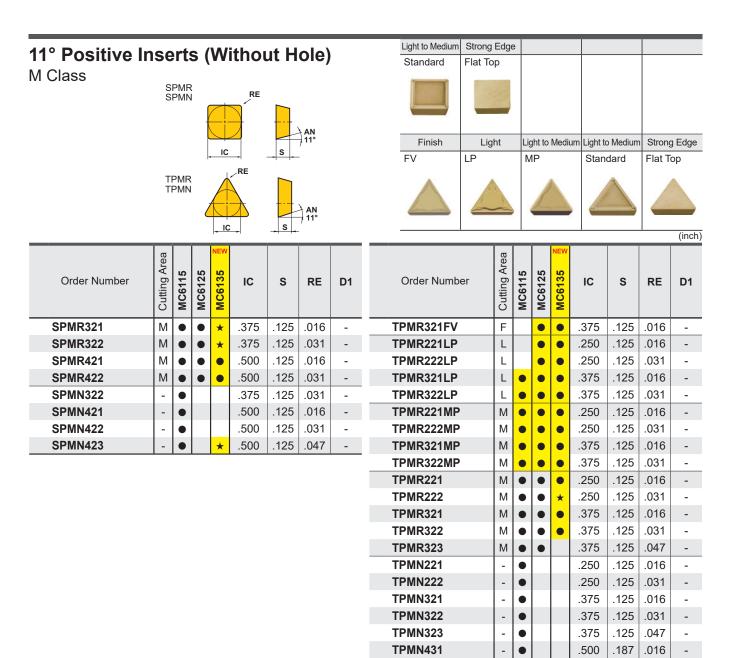




								(inch)
Order Number	Cutting Area	MC6115	MC6125	MC6135 A	IC	s	RE	D1
WPMT21.50.5MV	М		•	*	.250	.094	.008	.110
WPMT21.51MV	М		*	•	.250	.094	.016	.110
WPMT321MV	М		•	*	.375	.125	.016	.173
WPMT322MV	М		*	*	.375	.125	.031	.173

= NEW

●: USA Stock ★: Stocked in Japan (10 inserts in one case)



**TPMN432** 

**TPMN433** 

.500

.187 .031

.500 | .187 | .047 | -

### **Recommended Cutting Conditions**

**Negative Inserts (For External Turning)** 

Material	Properties	Cuttin	g Range	Priority	Grade	Chipbreaker	Cutting Speed <b>vc</b> (SFM)	Feed	Depth of C
							VC (SFIVI)	f (IPR)	ар
	1	*	F	1	MC6125	FY	1260—1985	.004—.009	.008—.03
	Hardness	*	F	2	MC6135	FY	1030—1575	.004—.009	.008—.03
Mild Steel	≤180HB	*	L	1	MC6125	SY	1150—1805	.006—.013	.020—.04
		*	L	2	MC6135	SY	950—1425	.006—.013	.020—.04
		•	F	1	MC6115	FP	820—1575	.003—.010	.004—.03
		•	F	2	MC6125	FP	900-1395	.003—.010	.004—.03
		•	L	1	MC6115	LP	820-1575	.004—.016	.012—.0
		•	L	2	MC6125	LP	900-1395	.004—.016	.012—.0
		•	L	3	MC6115	SH	820-1575	.004—.016	.0120
		•	L	4	MC6125	SH	900-1395	.004—.016	.012—.0
		•	L	5	MC6115	SA	820-1575	.004—.016	.012—.0
		•	L	6	MC6125	SA	900-1395	.004—.016	.012—.0
		•	L	7	MC6115	sw	820—1575	.004—.020	.012—.0
		•	L	8	MC6125	sw	900-1395	.004—.020	.012—.0
		•	М	1	MC6115	MP	755—1445	.006—.020	.012—.1
		•	М	2	MC6125	MP	820-1280	.006—.020	.012—.1
		•	М	3	MC6115	MA	755—1445	.008—.020	.012—.1
		•	М	4	MC6125	MA	820-1280	.008020	.012—.1
		•	М	5	MC6115	Std	755—1445	.010024	.059—.1
		•	М	6	MC6125	Std	820-1280	.010—.024	.059—.
		•	М	7	MC6115	MW	755—1445	.008024	.035—.
		•	М	8	MC6125	MW	820-1280	.008024	.035—.
		R 1 MC6115 RP R 2 MC6125 RP	705—1360	.010—.024	.059—.2				
			RP	770—1215	.010—.024	.059—.2			
			R	3	MC6115	GH	705—1360	.010—.024	.059—.2
			R	4	MC6125	GH	770—1215	.010024	.059—.2
Carbon Steel	Hardness		Н	1	MC6125	нх	690-1080	.020—.050	.118—.4
Alloy Steel	180—280HB		Н	2	MC6135	нх	560-850	.020—.050	.118—.4
			Н	3	MC6125	HV	575-885	.023—.050	.157—.4
			Н	4	MC6135	HV	460-705	.023—.050	.157—.4
		C	F	1	MC6115	FP	820—1575	.003—.010	.004—.0
		C	F	2	MC6125	FP	900—1395	.003—.010	.004—.0
		C	L	1	MC6115	LP	820—1575	.004—.016	.012—.0
		C	L	2	MC6125	LP	900-1395	.004—.016	.012—.0
		C	L	3	MC6115	SH	820—1575	.004—.016	.012—.0
		C	L	4	MC6125	SH	900—1395	.004—.016	.012—.0
		C	L	5	MC6115	SA	820—1575	.004—.016	.012—.0
		C	L	6	MC6125	SA	900—1395	.004—.016	.012—.0
		C	L	7	MC6115	sw	820—1575	.004—.020	.012—.0
		C	L	8	MC6125	sw	900—1395	.004—.020	.012—.0
		C	M	1	MC6125	MP	820—1280	.006—.020	.012—.
		C	M	2	MC6135	MP	670—1015	.006—.020	.012—.
		C	М	3	MC6125	MA	820—1280	.008—.020	.012—.1
		C	М	4	MC6135	MA	670—1015	.008—.020	.012—.1
	[	C	М	5	MC6125	МН	820—1280	.008—.022	.039—.
		C	М	6	MC6135	МН	670—1015	.008—.022	.039—.
		C	М	7	MC6125	Std	820—1280	.010—.024	.059—.1
		C	М	8	MC6135	Std	670—1015	.010—.024	.059—.1
		C	М	9	MC6125	MW	820-1280	.008—.024	.035—.1
		C	М	10	MC6135	MW	670-1015	.008024	.035—.1

Note 1) Recommended cutting conditions for 5º/7º/11º positive inserts are provided as a guideline only.

Verify the recommended conditions for each boring bar as cutting conditions for internal machining will vary depending on the length of overhang.

DIA EDGE AMITSUBISHI MATERIALS U.S.A.

Material	Properties	Cutting	Range	Priority	Grade	Chipbreaker	Cutting Speed vc (SFM)	Feed <b>f</b> (IPR)	Depth of Cut ap								
		C	R	1	MC6135	RP	620-950	.010—.024	.059—.236								
		C	R	2	MC6125	RP	770—1215	.010—.024	.059—.236								
		C	R	3	MC6135	GH	620-950	.010—.024	.059—.236								
		C	R	4	MC6125	GH	770—1215	.010—.024	.059—.236								
		C	Н	1	MC6135	нх	560-850	.020—.050	.118—.433								
		<b>€</b>	Н	2	MC6125	нх	690—1080	.020—.050	.118—.433								
		C	Н	3	MC6135	HV	460-705	.023—.050	.157—.472								
		C	Н	4	MC6125	HV	575-885	.023—.050	.157—.472								
		*	F	1	MC6135	FP	805—1215	.003—.010	.004—.039								
		*	F	2	MC6125	FP	985—1525	.003—.010	.004—.039								
		#	L	1	MC6135	LP	740—1115	.004—.016	.012—.079								
		*	L	2	MC6125	LP	900-1395	.004—.016	.012—.079								
		*	L	3	MC6135	SH	740—1115	.004—.016	.012—.079								
		*	L	4	MC6125	SH	900-1395	.004—.016	.012—.079								
		*	L	5	MC6135	SA	740—1115	.004—.016	.012—.079								
Carbon Steel	Hardness	*	L	6	MC6125	SA	900-1395	.004—.016	.012—.079								
Alloy Steel	180—280HB	*	M	1	MC6135	MP	670-1015	.006—.020	.012—.157								
		*	М	2	MC6125	MP	820—1280	.006—.020	.012—.157								
		*	M	3	MC6135	MA	670-1015	.008—.020	.012—.157								
		*	М	4	MC6125	MA	820—1280	.008—.020	.012—.157								
		*	M	5	MC6135	МН	670-1015	.008—.022	.039—.157								
		*	M	6	MC6125	МН	820-1280	.008—.022	.039—.157								
		*	M	7	MC6135	Std	670-1015	.010—.024	.059—.197								
		*	М	8	MC6125	Std	820-1280	.010—.024	.059—.197								
		*	М	9	MC6135	MW	670-1015	.008—.024	.035—.157								
		*	М	10	MC6125	MW	820—1280	.008—.024	.035—.157								
		#	R	1	MC6135	RP	620-950	.010—.024	.059—.236								
		#	R	2	MC6125	RP	770—1215	.010—.024	.059—.236								
		*	R	3	MC6135	GH	620-950	.010—.024	.059—.236								
	-						-		-	*	R	4	MC6125	GH	770—1215	.010—.024	.059—.236
		*	Н	1	MC6135	нх	560-850	.020—.050	.118—.433								
		*	Н	2	MC6125	нх	690-1080	.020—.050	.118—.433								

(inch)

Note 1) Recommended cutting conditions for 5°/7°/11° positive inserts are provided as a guideline only.

Verify the recommended conditions for each boring bar as cutting conditions for internal machining will vary depending on the length of overhang.

Cutting Conditions: ●: Stable Cutting ●: General Cutting ★: Unstable Cutting Cutting Area: L: Light Cutting M: Medium Cutting R: Rough Cutting

### **Recommended Cutting Conditions**

5° 7° Positive Inserts (For External Turning)

Material	Properties	Cutting	Range	Priority	Grade	Chipbreaker	Cutting Speed	Feed	Depth of C
Iviaterial	Troperties	Cutting		Thomas	Orace	Oniporeaker	vc (SFM)	f (IPR)	ар
	1			1	MCC44E	ED	070 4070	000 000	000 00
		•	F	1	MC6115	FP	970—1870	.002—.008	.008—.03
		C	F L	2	MC6115	FV LP	970—1870	.002008	.008—.03
		C	L	2	MC6115 MC6115	SW	970—1870		.008—.03
	-	C	M	1	MC6115	MP	970—1870 805—1560	.002009	.008—.05
		C	M	2	MC6115	MV	805—1560	.003—.012	.012—.07
		•	M	3	MC6115	MW	805—1560	.004—.014	.031—.09
	Hardness	*	F	1	MC6125	FP	1050—1655	.002—.008	.008—.03
Mild Steel	≤180HB	*	F	2	MC6135	FP	870—1310	.002008	.008—.03
	-	*	L	1	MC6125	LP	1050—1655	.002010	.008—.03
		*	L	2	MC6135	LP	870—1310	.002—.010	.008—.03
		*	L	3	MC6125	sw	1050—1655	.002009	.00805
		*	M	1	MC6125	MP	885—1380	.003—.012	.012—.0
		*	M	2	MC6135	MP	720–1080	.003—.012	.012—.0
		*	M	3	MC6125	MV	885—1380	.003—.012	.012—.0
		*	M	4	MC6125	MW	885—1380	.004—.014	.031—.09
	1	•	F	1	MC6115	FP	720–1380	.002—.008	.008—.03
		E	F	2	MC6125	FP	785—1215	.002008	.008—.0
		E	F	3	MC6115	FV	720–1380	.002008	.008—.0
		C	L	1	MC6115	LP	720—1380	.002—.010	.008—.0
		C	L	2	MC6125	LP	785—1215	.002—.010	.008—.0
		C	M	1	MC6125	MP	655—1015	.003—.012	.012—.0
		C	М	2	MC6115	MP	590—1150	.003—.012	.012—.0
		C	М	3	MC6125	MV	655—1015	.003—.012	.012—.0
		C	М	4	MC6115	MV	590—1150	.003—.012	.012—.0
Carbon Steel	Hardness	C	М	5	MC6115	MW	590—1150	.004—.014	.031—.0
Alloy Steel	180—280HB	*	F	1	MC6125	FP	785—1215	.002—.008	.008—.0
		*	F	2	MC6135	FP	640—970	.002—.008	.008—.0
		*	F	3	MC6125	FV	785—1215	.002—.008	.008—.0
		*	L	1	MC6125	LP	785—1215	.002—.010	.008—.0
		*	L	2	MC6135	LP	640-970	.002—.010	.008—.0
		*	L	3	MC6125	sw	785—1215	.002—.009	.008—.0
		*	М	1	MC6125	MP	655—1015	.003—.012	.012—.0
		*	М	2	MC6135	MP	525-805	.003—.012	.012—.0
		*	М	3	MC6125	MV	655—1015	.003—.012	.012—.0
		£	F	1	MC6115	FP	510-970	.002—.008	.008—.0
		C	F	2	MC6115	FV	510-970	.002—.008	.008—.0
		C	L	1	MC6115	LP	510-970	.002—.010	.008—.0
		C	М	1	MC6115	MP	425-805	.003—.012	.012—.0
		C	М	2	MC6115	MV	425-805	.003—.012	.012—.0
Carbon Steel	Hardness	*	F	1	MC6125	FP	560-870	.002—.008	.008—.0
Alloy Steel	280—350HB	#	F	2	MC6135	FP	440-690	.002—.008	.008—.0
		#	L	1	MC6125	LP	560-870	.002—.010	.008—.0
		*	L	2	MC6135	LP	440-690	.002—.010	.008—.0
		*	М	1	MC6125	MP	460-720	.003—.012	.012—.0
		#	М	2	MC6135	MP	375–575	.003—.012	.012—.0
		#	М	3	MC6125	MV	460-720	.003—.012	.012—.07

Note 1) Recommended cutting conditions for 5°/7°/11° positive inserts are provided as a guideline only.

Verify the recommended conditions for each boring bar as cutting conditions for internal machining will vary depending on the length of overhang.

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### 11° Positive Inserts (For External Turning)

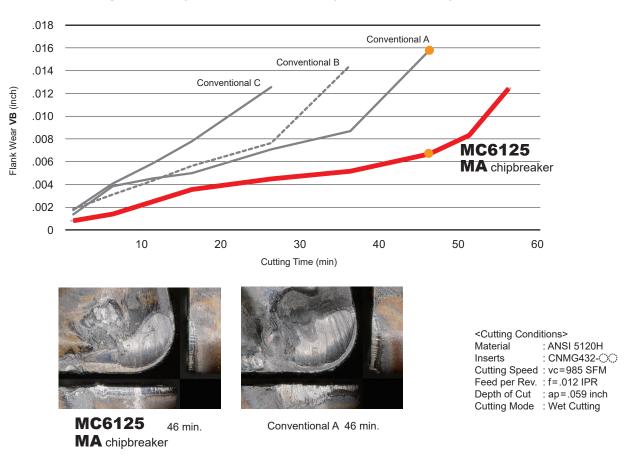
Material	Properties	Cutting	Range	Priority	Grade	Chipbreaker	Cutting Speed vc (SFM)	Feed f (IPR)	Depth of Cut	
P	,			,						
		C	F	1	MC6125	FP	1050-1655	.002—.008	.008035	
		C	F	2	MC6125	FV	1050—1655	.002—.008	.008—.035	
		C	L	1	MC6125	LP	1050—1655	.002—.010	.008—.039	
		C	L	2	MC6115	R-Std	805—1560	.003—.012	.012079	
		C	М	1	MC6125	MP	885—1380	.003—.012	.012—.079	
		•	М	2	MC6115	MP	805—1560	.003—.012	.012—.079	
Mild Steel	Hardness	•	М	3	MC6125	MV	885—1380	.003—.012	.012—.079	
Willa Steel	≤180HB	C	M	4	MC6115	MV	805—1560	.003—.012	.012—.079	
		*	L	1	MC6125	LP	1050—1655	.002—.010	.008—.039	
		*	L	2	MC6135	LP	870—1310	.002—.010	.008—.039	
		#	М	1	MC6125	MP	885—1380	.003—.012	.012—.079	
		*	М	2	MC6135	MP	720—1080	.003—.012	.012—.079	
		*	М	3	MC6125	MV	885—1380	.003—.012	.012—.079	
		*	М	4	MC6135	MV	720—1080	.003—.012	.012—.079	
		C	F	1	MC6125	FP	785—1215	.002—.008	.008—.035	
		C	F	2	MC6125	FV	785—1215	.002—.008	.008—.035	
		C	L	1	MC6125	LP	785—1215	.002—.010	.008—.039	
		C	L	2	MC6115	LP	720—1380	.002—.010	.008—.039	
		C	М	1	MC6125	MP	655—1015	.003—.012	.012—.079	
		C	М	2	MC6125	MV	655—1015	.003—.012	.012—.079	
Carbon Steel	Hardness	C	М	3	MC6115	R-Std	590—1150	.003—.012	.012—.079	
Alloy Steel	180—280HB	C	М	4	MC6125	R-Std	655—1015	.003—.012	.012—.079	
		*	L	1	MC6125	LP	785—1215	.002—.010	.008—.039	
			*	L	2	MC6135	LP	640—970	.002—.010	.008—.039
		*	М	1	MC6125	MP	655—1015	.003—.012	.012—.079	
		#	М	2	MC6135	MP	525-805	.003—.012	.012—.079	
		*	М	3	MC6125	MV	655—1015	.003—.012	.012—.079	
		*	М	4	MC6135	MV	525-805	.003—.012	.012—.079	

Cutting Conditions: ●: Stable Cutting ●: General Cutting ♦: Unstable Cutting Cutting Area: L: Light Cutting M: Medium Cutting R: Rough Cutting

### **Cutting Performance**

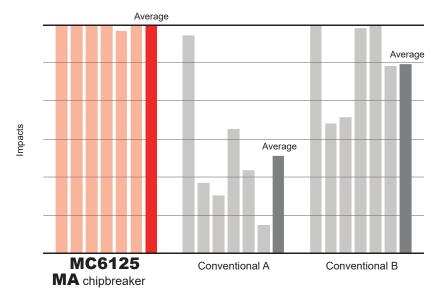
### Machining 5120H: Comparison of Wear Resistance During Continuous Wet Cutting

The thick coating exclusively for MC6125 effectively suppresses early wear.



### **Comparison of Toughness During Interrupted Cutting**

Provides stable cutting under severe cutting conditions that are likely to cause sudden fracturing.

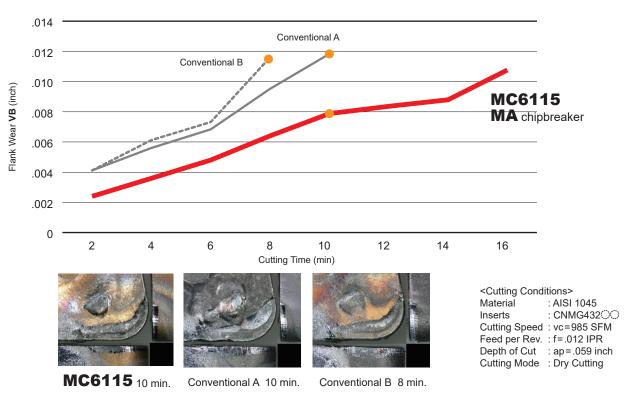


<Cutting Conditions>
Material : AISI 4140
Inserts : CNMG432

Cutting Speed: vc=655 SFM
Feed per Rev.: f=.010 IPR
Depth of Cut: ap=.059 inch
Cutting Mode: Wet Cutting

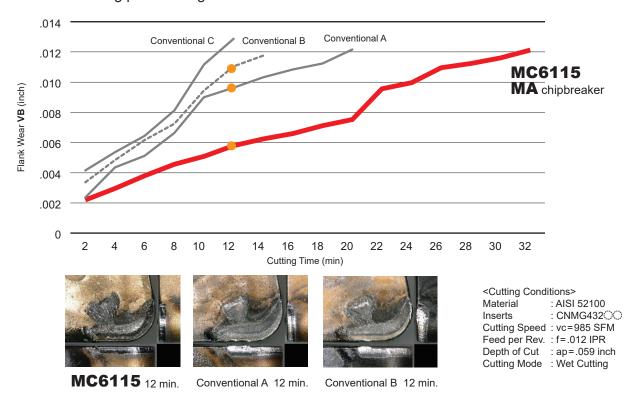
Machining 1045: Comparison of Wear Resistance During Continuous Dry Cutting

The "Super" Nano Texture Technology increases tool life even when dry cutting by suppressing crater wear.



### Machining 52100: Comparison of Wear Resistance During Continuous Wet Cutting

The thick coating provides high flank wear resistance.

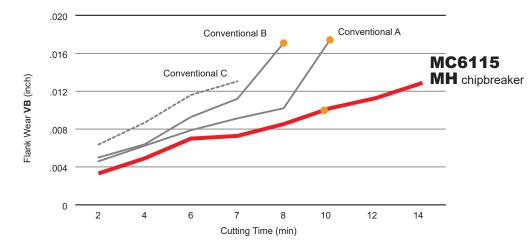


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### **Cutting Performance**

### Machining 4140: Comparison of Wear Resistance During Continuous Wet Cutting

MC6115 with high edge strength chipbreaker can also enable excellent wear resistance during high speed turning.







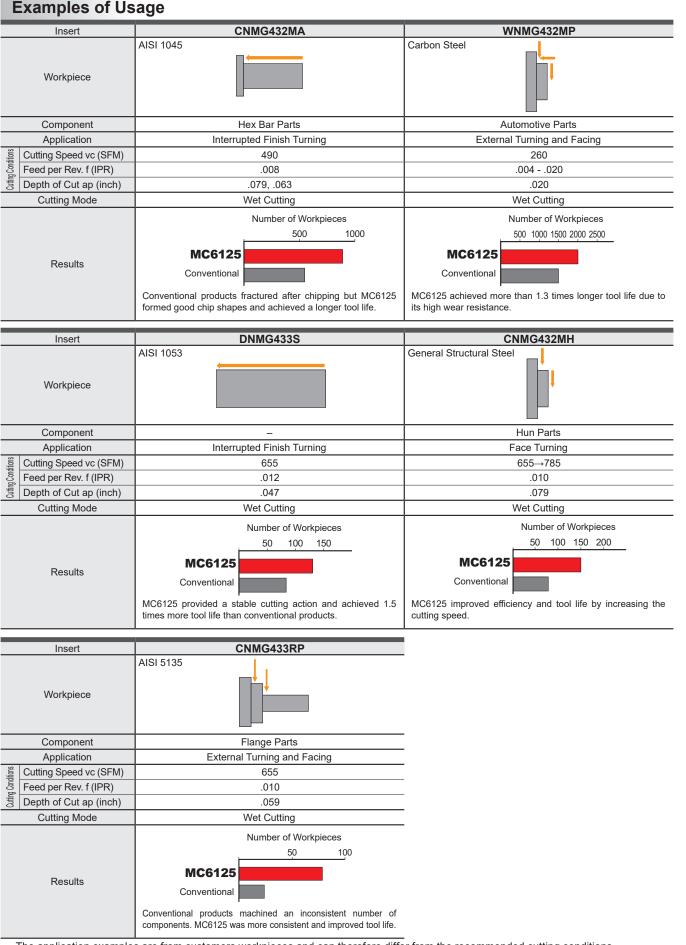
Conventional A 10 min.



Conventional B 8 min.

<Cutting Conditions> : AISI 4140 Material : CNMG43200 Cutting Speed: vc=1150 SFM Feed per Rev. : f=.012 IPR Depth of Cut : ap = .059 inch Cutting Mode : Wet Cutting

DIA∯EDGE



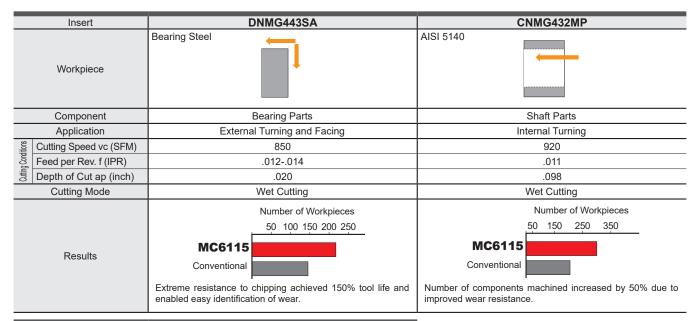
The application examples are from customers workpieces and can therefore differ from the recommended cutting conditions.

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	CNMG432MA	WNMG432MA			
Insert	AISI 4140	AISI 5140			
Workpiece	A314140	Alsi si40			
Component	Heavy Machinery Parts	Automotive Parts			
Application	Internal Turning	External Face Turning			
Cutting Speed vc (SFM)	490	950			
Feed per Rev. f (IPR)	.012	.010			
Depth of Cut ap (inch)	.059	.039			
Cutting Mode	Wet Cutting	Wet Cutting			
Results	Number of Workpieces  1 2 3  MC6115  Conventional  Tool life increased x 1.5 on a large workpiece (inner diameter 16.929 inch)	Number of Workpieces  20 40 60  MC6115  Conventional  The excellent wear resistance of MC6115 helped achieve double tool life.			
	(1116) (1116)	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			
Insert	WNMG432MA	WNMG433MP			
Workpiece	AISI 52100	AISI 5120H			
Component	Bearing Parts	Machine Parts			
Application	External Face Turning	Face Turning			
Cutting Speed vc (SFM)	650-910	770			
Feed per Rev. f (IPR)	.008012	.014			
Depth of Cut ap (inch)	.039	.039			
Cutting Mode	Wet Cutting	Wet Cutting			
Results	Number of Workpieces  100 200 300  MC6115  Conventional  The excellent wear resistance of MC6115 helped achieve double tool life.	Number of Workpieces  100 200 300  MC6115  Conventional  MC6115 achieved longer tool life compared to a convention product.			
Insert	WNMG432MP	WNMG434MA			
	AISI 5140	AISI 1049			
Workpiece	AlSi 5140				
Workpiece	AIST 5140				
Workpiece Component	Hub	Joint Parts			
		Joint Parts Internal Turning and Facing			
Component	Hub				
Component Application	Hub External Turning and Facing	Internal Turning and Facing			
Component Application Cutting Speed vc (SFM)	Hub External Turning and Facing 985	Internal Turning and Facing 705			
Component Application Cutting Speed vc (SFM) Feed per Rev. f (IPR)	Hub External Turning and Facing 985 .010014	Internal Turning and Facing 705 .010011			
Component Application Cutting Speed vc (SFM) Feed per Rev. f (IPR) Depth of Cut ap (inch)	Hub External Turning and Facing 985 .010014 .039098	Internal Turning and Facing 705 .010011 .124			

The application examples are from customers workpieces and can therefore differ from the recommended cutting conditions.

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	Insert	WNMG432MP
	Workpiece	Heated Tool Steel
	Component	Die Casting Parts
	Application	Internal Turning
Hions	Cutting Speed vc (SFM)	525
Cutting Conditions	Feed per Rev. f (IPR)	.010
慧	Depth of Cut ap (inch)	.079
	Cutting Mode	Wet Cutting
	Results	Number of Workpieces  1 2 3 4  MC6115  Conventional  MC6115 gave 1.5 x longer tool life even when machining heat treated materials.

The application examples are from customers workpieces and can therefore differ from the recommended cutting conditions.



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#### For Your Safety

- Don't handle inserts and chips without gloves.
- Please machine within the recommended application range and exchange expired tools with new ones in advance of breakage.
- Please use safety covers and wear safety glasses.
- When using compounded cutting oils, please take fire precautions.
- When attaching inserts or spare parts, please use only the correct wrench or driver.
- When using rotating tools, please make a trial run to check run-out, vibration and abnormal sounds etc.



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