



MC/MP7100

Series

COATED GRADE FOR
STAINLESS STEEL TURNING

AHB

TOOLING & MACHINERY

COMPLETE METALWORKING SOLUTIONS
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TOOL NEWS B277A

Coated Grade for Stainless Steel Turning

MC/MP7100 Series

Improved coating adhesion strength and dedicated carbide substrate suppresses notching during stainless steel turning.

Stainless steels are widely used for components that require resistance to corrosion. When comparing stainless steels to other steels and cast irons, it has low hardness but is tough to machine and susceptible to work hardening. Due to these characteristics, turning inserts are prone to edge damage and weld chipping. Additionally, plastic deformation of the insert due to the heat generated makes more difficult to cut, resulting in unstable tool life.

The properties of stainless steels, such as corrosion and heat resistance, vary greatly depending on the metallurgical structure and composition. These small differences can make it appear as if a completely different workpiece material is being machined.

Mitsubishi Materials has the ability to combine coating and substrate technology to produce a series of grades to successfully machine stainless steels.



Notching



Fracture from welding chipping

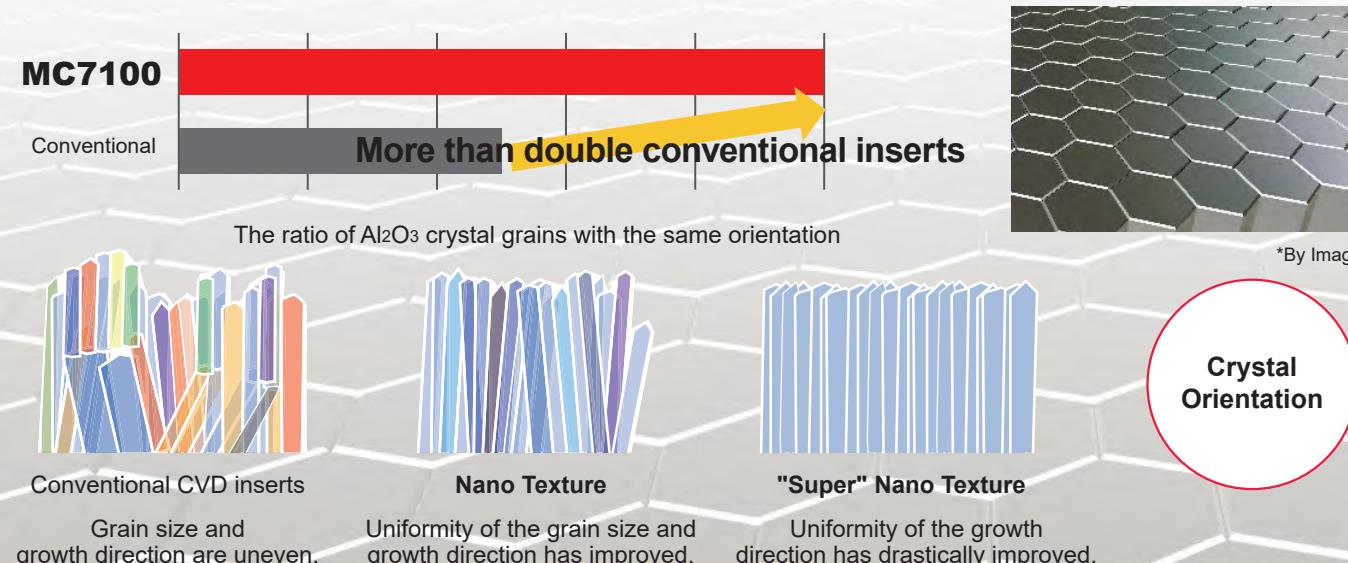


Plastic deformation

Features of The MC7100 Series Coating

"Super" Nano Texture Technology

The standard Nano Texture Technology has been improved and developed to be an industry leading standard for crystal growth of Al₂O₃ coatings. This Super Nano Texture Technology increases tool life and wear resistance due to the fine, dense crystal growth process.



Tough and Sub Grip Layers

The extra strength of the adhesion between the coating layers suppresses peeling during machining of stainless steels.



Super-TOUGH-Grip

The adhesion strength of the Al₂O₃ layer, which was prone to peeling due to the work-hardened layer when machining stainless steel, has been significantly improved.

SUB-Grip

It increases the adhesion strength between the carbide substrate and the coating layer, and prevents the coating from peeling off due to welding.

Features of Carbide Substrate

MC7115

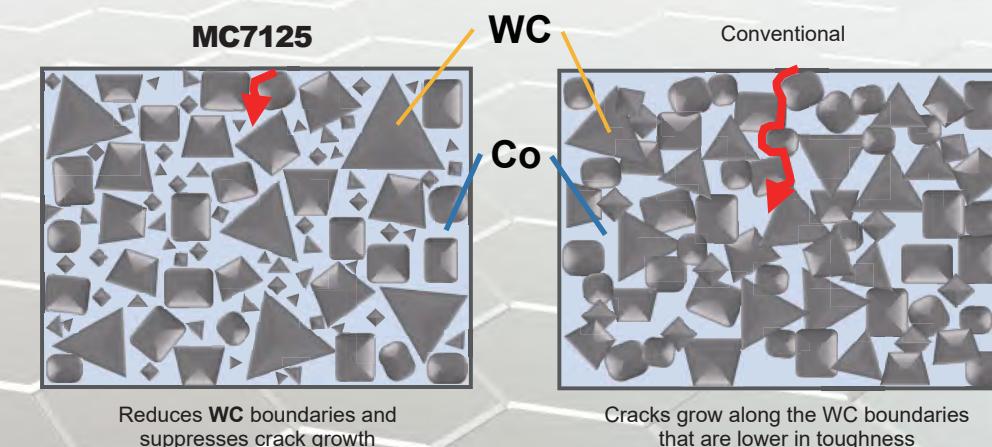
Has crater wear and plastic deformation resistance that are ideal for high-speed cutting of stainless steel.

MC7125

By optimizing the particle size distribution, the boundary contact between the low toughness WC particles has been reduced and promotes hardness, thereby dramatically improving plastic deformation and fracture resistance.

MP7135

The dedicated carbide substrate has excellent wear resistance and greatly improved chipping resistance.



For High Speed Turning

MC7115

CVD coated carbide grade specialized for high speed cutting.

For medium to large austenitic stainless steel parts, cutting speeds of 820 SFM or more reduce machining time.

Note) The appearance color of MC7115 and MC7125 may vary depending on the product, but this does not affect the quality or performance.



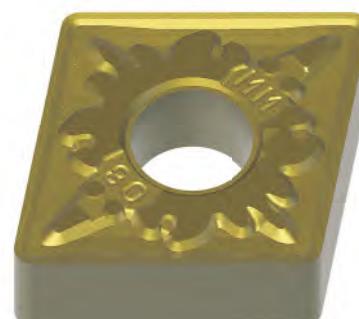
The All Round Choice for Stainless Steel Turning

MC7125

First recommended grade

Compatible with a wide range of applications, from continuous cutting through to interrupted cutting.

Suitable for a wide variety of stainless steels.

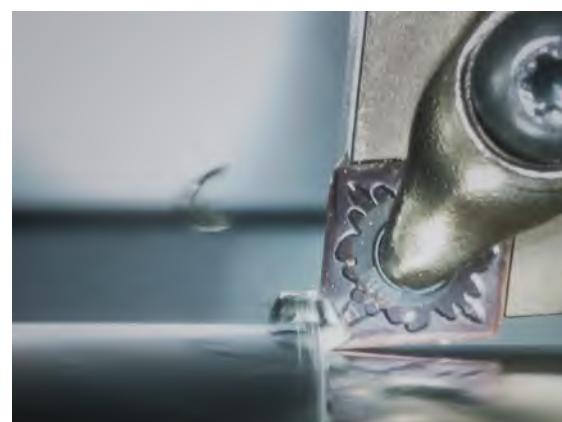


Tougher for Interrupted Cutting

MP7135

PVD coated carbide grade that is resistant to the impacts of interrupted cutting.

It is ideal for intermittent cutting of workpieces, as well as for rough machining of forged and cast products.



MC/MP7100 series
machining video



YouTube

For High Speed Turning

MC7115

Increases the hardness of the base material, providing excellent resistance to plastic deformation and crater wear



Coating layer with high adhesive strength

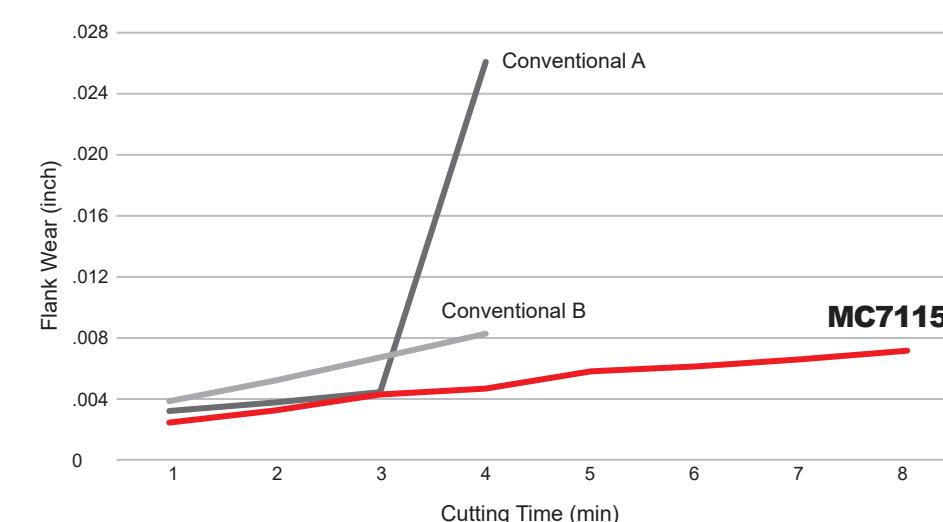
Tough and Super Tough Grip improve adhesion strength and maximize the effectiveness of the coating. "Super" Nano Texture Technology suppresses crater wear during high speed cutting.

Carbide Substrate That is Strong for High Speed Cutting

The hard carbide substrate is resistant to the high temperatures generated during high speed cutting and has excellent resistance to plastic deformation and crater wear.



Machining 304 : Comparison of wear resistance during wet cutting



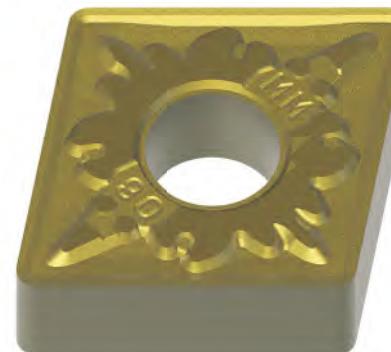
Tool life
doubled

<Cutting Conditions>
Material : AISI 304
Inserts : CNMG432
Cutting Speed : vc = 820 SFM
Feed per Rev. : f = .012 IPR
Depth of Cut : ap = .059 inch
Cutting Mode : Wet Cutting

The All-Rounder for Stainless Steel Turning

MC7125

Incredibly stable with both plastic deformation and chipping resistance



Coating layer with high adhesive strength

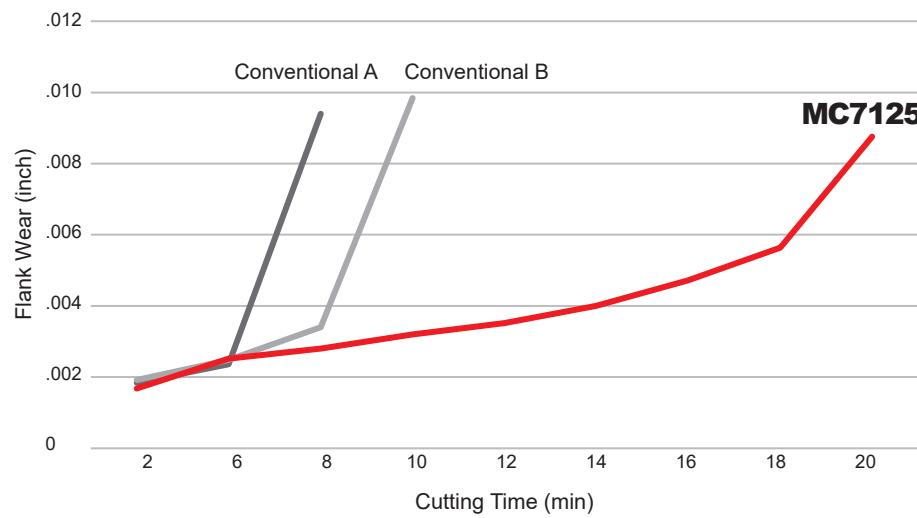
Tough and Super TOUGH-Grip dramatically improve adhesion strength and maximize the effectiveness of the coating.

Substrate resistant to plastic deformation and chipping

By optimizing the particle size distribution of the main component WC and improving its dispersibility, reduced contact between the WC particles dramatically improves resistance to plastic deformation and fracture.



Machining 316L : Comparison of wear resistance during wet cutting



Tool life doubled

<Cutting Conditions>
Material : AISI 316L
Inserts : CNMG432
Cutting Speed : vc = 490 SFM
Feed per Rev. : f = .012 IPR
Depth of Cut : ap = .059 inch
Cutting Mode : Wet Cutting

Tougher for Interrupted Cutting

MP7135

The highly heat resistant coating and dedicated carbide substrate provide both wear resistance and chipping resistance.



AlTiN-based nano-layer coating

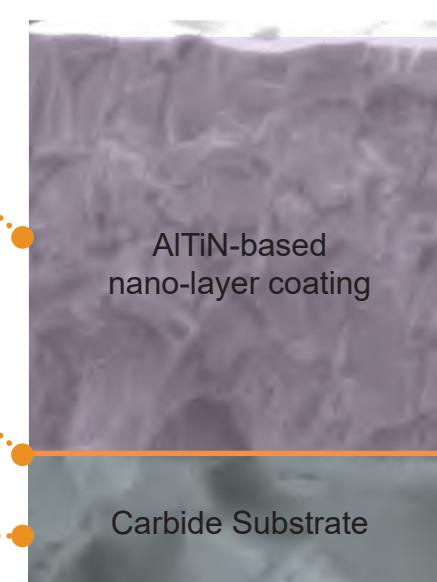
By layering the highly heat resistant AlTiN coating at the Nano level, excellent wear and chipping resistance has been achieved.

Technology to improve adhesion strength

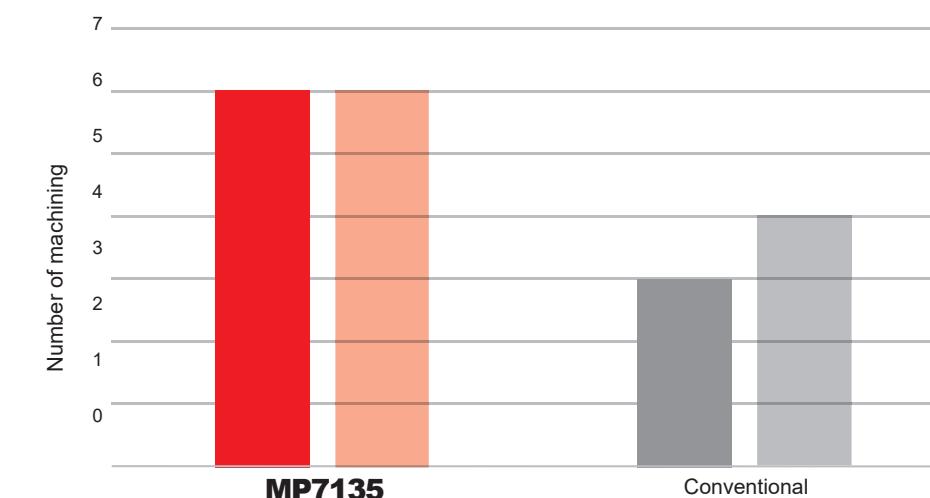
Suppresses peeling when machining stainless steel and exhibits excellent chipping resistance.

Dedicated carbide base material

A carbide substrate exclusively for stainless steel that combines both wear and fracture resistance.



Machining 304 : Intermittent Cutting Comparison

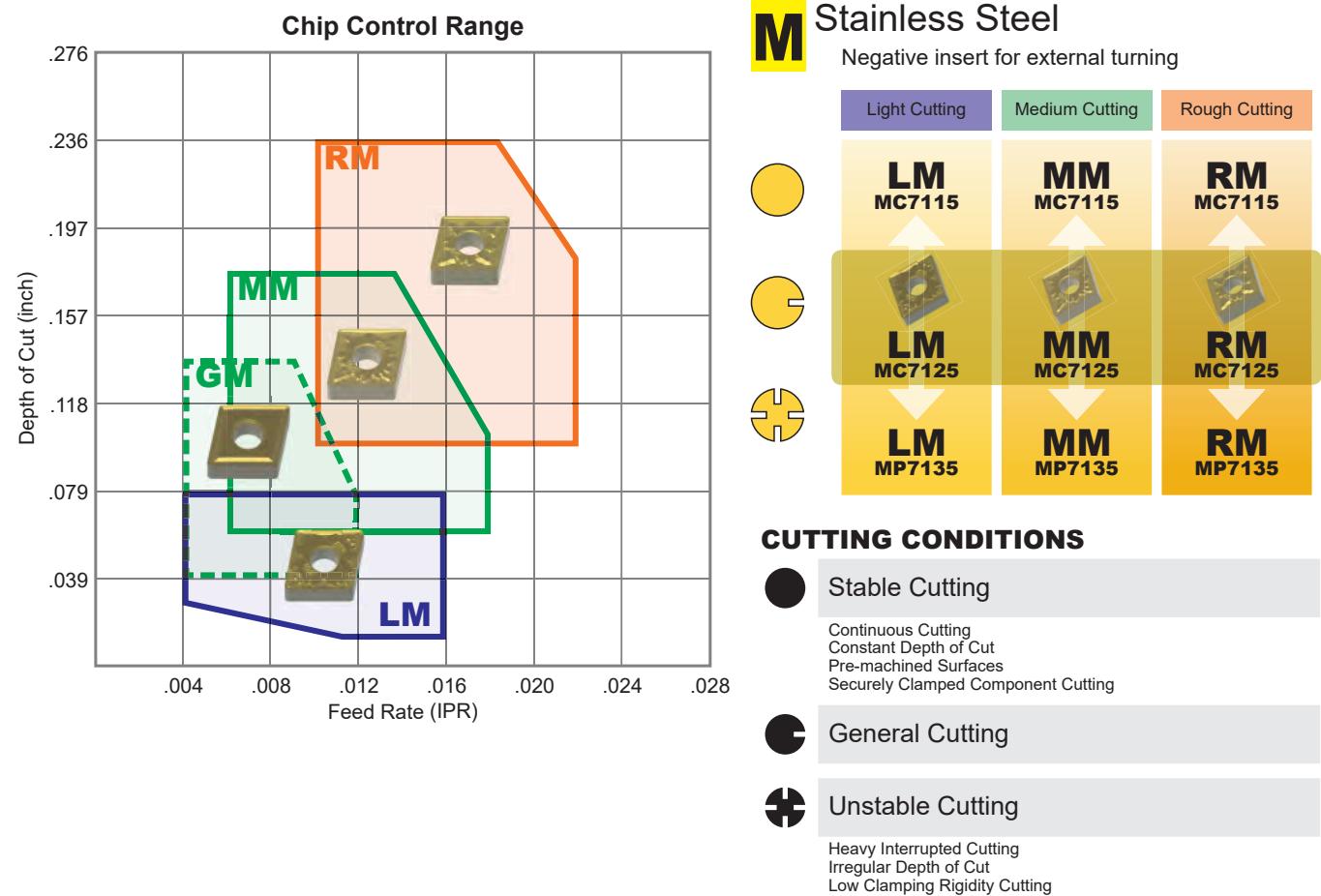


Almost double tool life



<Cutting Conditions>
Material : AISI 304
Inserts : CNMG432
Cutting Speed : vc = 395 SFM
Feed per Rev. : f = .010 IPR
Depth of Cut : .079 inch x 2 pass
Cutting Mode : Wet Cutting

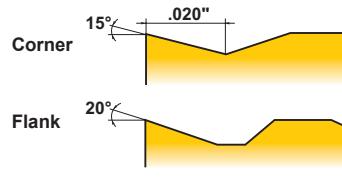
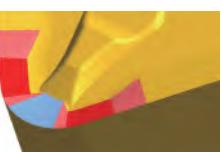
Chipbreaker System (Negative Inserts)



Main Chipbreaker

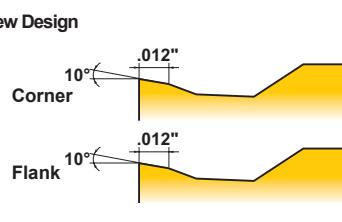
LM chipbreaker for light cutting

Excellent burr control
Reduces the incidence of burrs drastically because the sharpness properties and cutting edge strength are optimized with different rake angles.



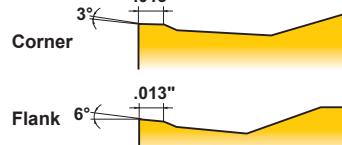
MM chipbreaker for medium cutting

Excellent welding resistance
The sharp design of the corner radius and main cutting edge improves welding resistance and prevents problems.



RM chipbreaker for rough cutting

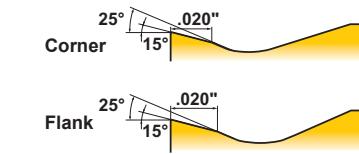
Excellent fracture resistance
By optimizing the land angle and honing geometry, high cutting edge stability is achieved during interrupted machining.



Interpolated Chipbreaker

GM chipbreaker

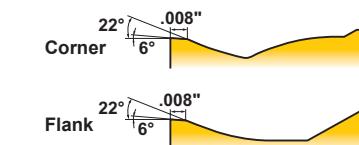
Sub chipbreaker of the main LM and MM chipbreaker.
Excellent in notching resistance for light cutting to medium cutting.



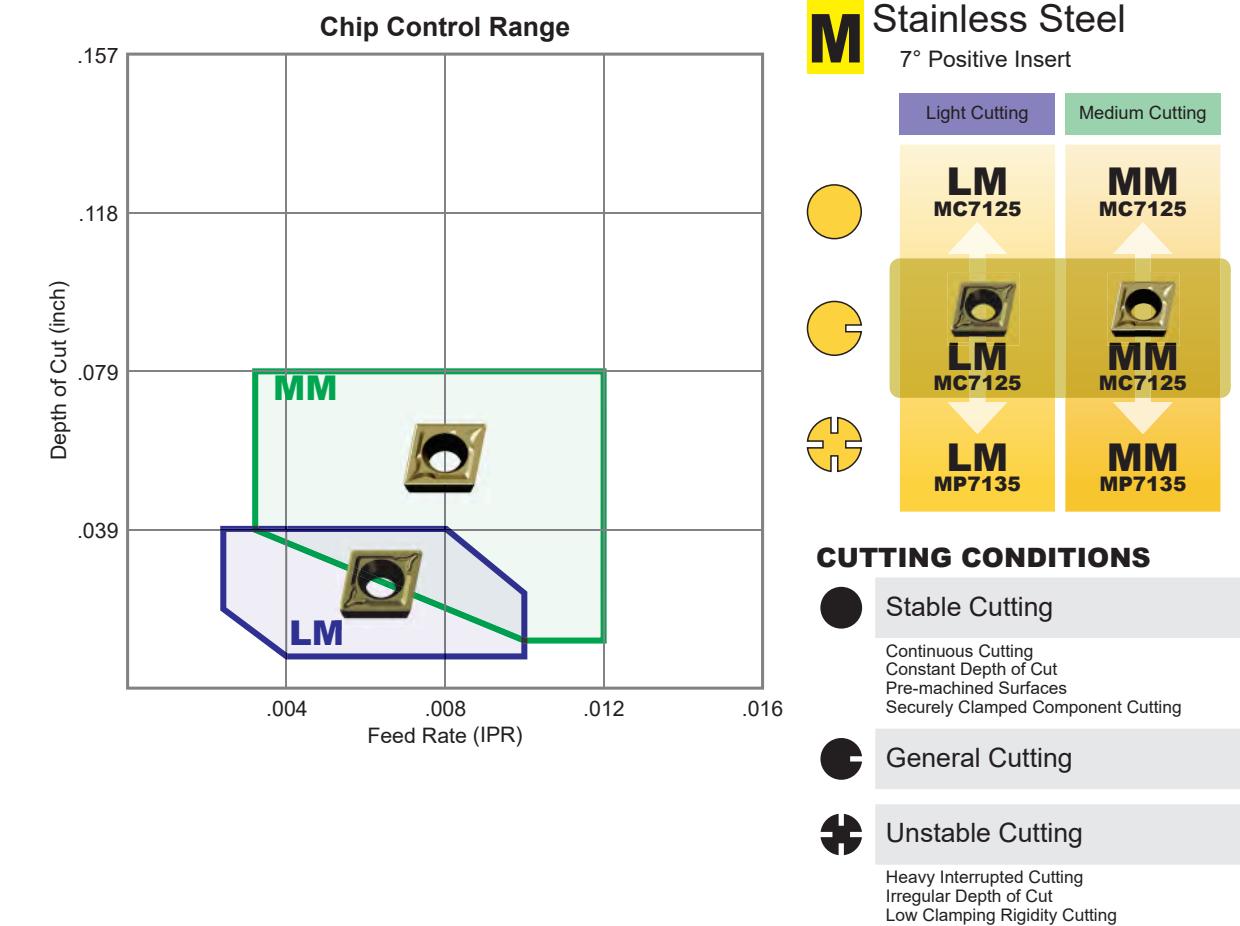
Multi-Assist Chipbreaker

MA chipbreaker

Suitable for medium cutting range.



Chipbreaker System (Positive Inserts)

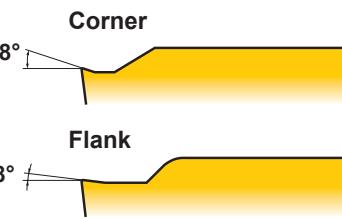


Main Chipbreaker

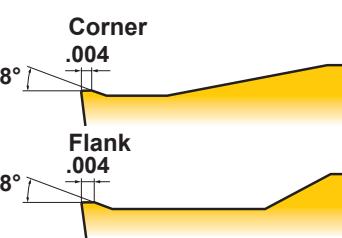
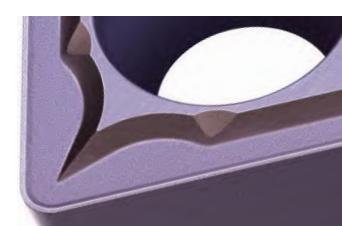
LM chipbreaker for light cutting

First recommendation for light cutting of stainless steel

The large rake angle gives a sharp cutting edge that prevents chip welding, which in turn helps to control the surface finish. The protruding chipbreaker provides an ideal range of chip control.



5° 7° 11° Positive Insert



MM chipbreaker for medium cutting

First recommendation for medium cutting of stainless steel

The flat land enables a good balance of wear and fracture resistance. The wide pocket reduces vibration and chip jamming and also prevents increases in cutting resistance even at large depths of cut.

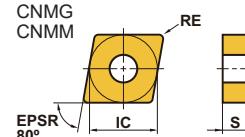
5° 7° Positive Insert

MC/MP7100 Series

NEW

Negative Inserts (With Hole)

M Class



	Light	Light	Medium	Medium	Medium	Medium
LM	SH	MM	MA	GM	GH	
Rough	Heavy	Heavy	Heavy			
RM	HL	HM				

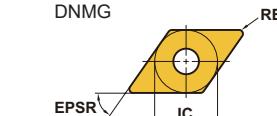
(inch)

Order Number	Cutting Area	MC7115	MC7125	MP7135	IC	S	RE	D1
CNMG431LM	L	●	●	●	.500	.187	.016	.203
CNMG432LM	L	●	●	●	.500	.187	.031	.203
CNMG433LM	L	●	●	●	.500	.187	.047	.203
CNMG431SH	L		●		.500	.187	.016	.203
CNMG432SH	L		●		.500	.187	.031	.203
CNMG432MM	M	●	●	●	.500	.187	.031	.203
CNMG433MM	M	●	●	●	.500	.187	.047	.203
CNMG434MM	M	●	●	●	.500	.187	.063	.203
CNMG542MM	M	●	●	●	.625	.250	.031	.250
CNMG543MM	M	●	●	●	.625	.250	.047	.250
CNMG544MM	M	●	●	●	.625	.250	.063	.250
CNMG642MM	M	●	●	●	.750	.250	.031	.312
CNMG643MM	M	●	●	●	.750	.250	.047	.312
CNMG644MM	M	●	●	●	.750	.250	.063	.312
CNMG431MA	M		●		.500	.187	.016	.203
CNMG432MA	M		●		.500	.187	.031	.203
CNMG433MA	M		●		.500	.187	.047	.203
CNMG434MA	M		●		.500	.187	.063	.203
CNMG542MA	M		●		.625	.250	.031	.250
CNMG543MA	M		●		.625	.250	.047	.250
CNMG544MA	M		●		.625	.250	.063	.250
CNMG643MA	M		●		.750	.250	.047	.312
CNMG644MA	M		●		.750	.250	.063	.312
CNMG431GM	M		●		.500	.187	.016	.203
CNMG432GM	M		●		.500	.187	.031	.203
CNMG433GM	M		●		.500	.187	.047	.203
CNMG432GH	M		●		.500	.187	.031	.203
CNMG433GH	M		●		.500	.187	.047	.203
CNMG543GH	M		●		.625	.250	.047	.250
CNMG643GH	M		●		.750	.250	.047	.312
CNMG644GH	M		●		.750	.250	.063	.312

Order Number	Cutting Area	MC7115	MC7125	MP7135	IC	S	RE	D1
CNMG432RM	R	●	●	●	.500	.187	.031	.203
CNMG433RM	R	●	●	●	.500	.187	.047	.203
CNMG543RM	R	●	●	●	.625	.250	.047	.250
CNMG544RM	R	●	●	●	.625	.250	.063	.250
CNMG643RM	R	●	●	●	.750	.250	.047	.312
CNMG644RM	R	●	●	●	.750	.250	.063	.312
CNMM643HL	H		●		.750	.250	.047	.312
CNMM644HL	H		●		.750	.250	.063	.312
CNMM643HM	H		●		.750	.250	.047	.312
CNMM644HM	H		●		.750	.250	.063	.312

Negative Inserts (With Hole)

M Class



	Light	Light	Medium	Medium	Medium	Medium
LM	SH	MM	MA	GM	GH	
Rough						
RM						

(inch)

Order Number	Cutting Area	MC7115	MC7125	MP7135	IC	S	RE	D1
DNMG331LM	L	●	●	●	.375	.187	.016	.150
DNMG332LM	L	●	●	●	.375	.187	.031	.150
DNMG431LM	L	●	●	●	.500	.187	.016	.203
DNMG432LM	L	●	●	●	.500	.187	.031	.203
DNMG433LM	L	●	●	●	.500	.187	.047	.203
DNMG441LM	L	●	●	●	.500	.250	.016	.203
DNMG442LM	L	●	●	●	.500	.250	.031	.203
DNMG331SH	L		●		.375	.187	.016	.150
DNMG332SH	L		●		.375	.187	.031	.150
DNMG431SH	L		●		.500	.187	.016	.203
DNMG432SH	L		●		.500	.187	.031	.203
DNMG432MM	M	●	●	●	.500	.187	.031	.203
DNMG433MM	M	●	●	●	.500	.187	.047	.203
DNMG442MM	M	●	●	●	.500	.250	.031	.203
DNMG443MM	M	●	●	●	.500	.250	.047	.203
DNMG431MA	M	●	●	●	.500	.187	.016	.203
DNMG432MA	M	●	●	●	.500	.187	.031	.203
DNMG433MA	M	●	●	●	.500	.187	.047	.203
DNMG441MA	M	●	●	●	.500	.250	.016	.203
DNMG442MA	M	●	●	●	.500	.250	.031	.203
DNMG443MA	M	●	●	●	.500	.250	.047	.203
DNMG431GM	M	●	●	●	.500	.187	.016	.203
DNMG432GM	M	●	●	●	.500	.187	.031	.203
DNMG441GM	M	●	●	●	.500	.250	.016	.203
DNMG442GM	M	●	●	●	.500	.250	.031	.203
DNMG432GH	M		●		.500	.187	.031	.203
DNMG433GH	M		●		.500	.187	.047	.203
DNMG442GH	M		●		.500	.250	.031	.203
DNMG443GH	M		●		.500	.250	.047	.203

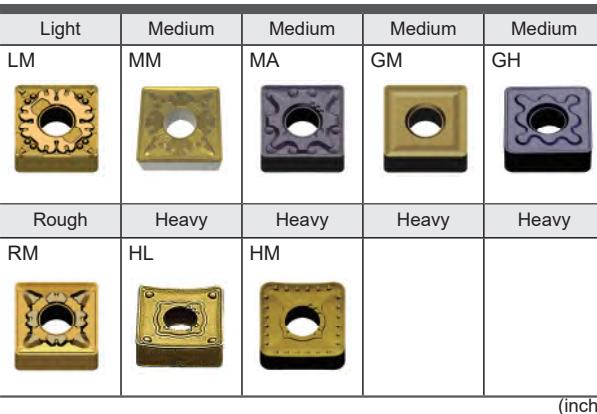
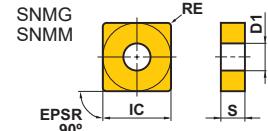
● : USA Stock
(10 inserts in one case)

MC/MP7100 Series

NEW

Negative Inserts (With Hole)

M Class

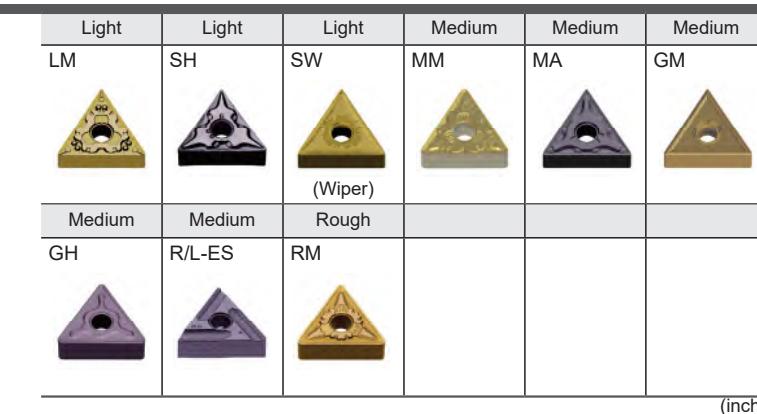
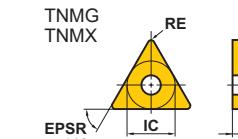


Order Number	Cutting Area	MC7115	MC7125	MP7135	IC	S	RE	D1
SNMG431LM	L	● ● ● ●			.500	.187	.016	.203
SNMG432LM	L	● ● ● ●			.500	.187	.031	.203
SNMG432MM	M	● ● ● ●			.500	.187	.031	.203
SNMG433MM	M	● ● ● ●			.500	.187	.047	.203
SNMG434MM	M	● ● ● ●			.500	.187	.063	.203
SNMG542MM	M	● ● ● ●			.625	.250	.031	.250
SNMG543MM	M	● ● ● ●			.625	.250	.047	.250
SNMG544MM	M	● ● ● ●			.625	.250	.063	.250
SNMG643MM	M	● ● ● ●			.750	.250	.047	.312
SNMG644MM	M	● ● ● ●			.750	.250	.063	.312
SNMG431MA	M	● ● ● ●			.500	.187	.016	.203
SNMG432MA	M	● ● ● ●			.500	.187	.031	.203
SNMG433MA	M	● ● ● ●			.500	.187	.047	.203
SNMG542MA	M	● ● ● ●			.625	.250	.031	.250
SNMG543MA	M	● ● ● ●			.625	.250	.047	.250
SNMG644MA	M	● ● ● ●			.750	.250	.063	.312
SNMG431GM	M	● ● ● ●			.500	.187	.016	.203
SNMG432GM	M	● ● ● ●			.500	.187	.031	.203
SNMG433GM	M	● ● ● ●			.500	.187	.047	.203
SNMG432GH	M	● ● ● ●			.500	.187	.031	.203
SNMG433GH	M	● ● ● ●			.500	.187	.047	.203
SNMG434GH	M	● ● ● ●			.750	.250	.063	.312
SNMG643GH	M	● ● ● ●			.750	.250	.047	.312
SNMG644GH	M	● ● ● ●			.750	.250	.063	.312

Order Number	Cutting Area	MC7115	MC7125	MP7135	IC	S	RE	D1
SNMG432RM	R	● ● ● ●			.500	.187	.031	.203
SNMG433RM	R	● ● ● ●			.500	.187	.047	.203
SNMG434RM	R	● ● ● ●			.500	.187	.063	.203
SNMG543RM	R	● ● ● ●			.625	.250	.047	.250
SNMG544RM	R	● ● ● ●			.625	.250	.063	.250
SNMG643RM	R	● ● ● ●			.750	.250	.047	.312
SNMG644RM	R	● ● ● ●			.750	.250	.063	.312
SNMM643HL	H	● ● ●			.750	.250	.047	.312
SNMM644HL	H	● ● ●			.750	.250	.063	.312
SNMM643HM	H	● ● ●			.750	.250	.047	.312
SNMM644HM	H	● ● ●			.750	.250	.063	.312
SNMM858HM	H	● ● ●			1.000	.313	.126	.359

Negative Inserts (With Hole)

M Class

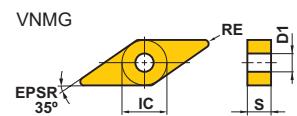


Order Number	Cutting Area	MC7115	MC7125	MP7135	IC	S	RE	D1
TNMG331LM	L	● ● ● ●			.375	.187	.016	.150
TNMG332LM	L	● ● ● ●			.375	.187	.031	.150
TNMG333LM	L	● ● ● ●			.375	.187	.047	.150
TNMG331SH	L	● ● ● ●			.375	.187	.016	.150
TNMG332SH	L	● ● ● ●			.375	.187	.031	.150
TNMX332SW	L	● ● ●			.375	.187	.031	.150
TNMG332MM	M	● ● ● ●			.375	.187	.031	.150
TNMG333MM	M	● ● ● ●			.375	.187	.047	.150
TNMG432MM	M	● ● ● ●			.500	.187	.031	.203
TNMG433MM	M	● ● ● ●			.500	.187	.047	.203
TNMG434MM	M	● ● ● ●			.500	.187	.063	.203
TNMG331MA	M	● ● ● ●			.375	.187	.016	.150
TNMG332MA	M	● ● ● ●			.375	.187	.031	.150
TNMG333MA	M	● ● ● ●			.375	.187	.047	.150
TNMG432MA	M	● ● ● ●			.500	.187	.031	.203
TNMG433MA	M	● ● ● ●			.500	.187	.047	.203
TNMG331GM	M	● ● ● ●			.375	.187	.016	.150
TNMG332GM	M	● ● ● ●			.375	.187	.031	.150
TNMG333GM	M	● ● ● ●			.375	.187	.047	.150
TNMG432GM	M	● ● ● ●			.500	.187	.031	.203

● : USA Stock
(10 inserts in one case)

MC/MP7100 Series**NEW****Negative Inserts (With Hole)**

M Class

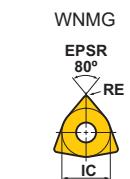


	Light	Medium	Medium	Medium
LM				

Order Number	Cutting Area	MC7115	MC7125	MP7135	IC	S	RE	D1
VNMG331LM	L	●	●	●	.375	.187	.016	.150
VNMG332LM	L	●	●	●	.375	.187	.031	.150
VNMG332MM	M	●	●	●	.375	.187	.031	.150
VNMG331MA	M	●	●	●	.375	.187	.016	.150
VNMG332MA	M	●	●	●	.375	.187	.031	.150
VNMG331GM	M	●	●	●	.375	.187	.016	.150
VNMG332GM	M	●	●	●	.375	.187	.031	.150

Negative Inserts (With Hole)

M Class

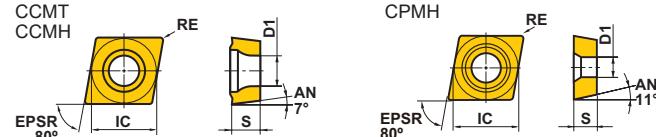


Order Number	Cutting Area	MC7115	MC7125	MP7135	IC	S	RE	D1	Order Number	Cutting Area	MC7115	MC7125	MP7135	IC	S	RE	D1
WNMG331LM	L	●	●	●	.375	.187	.016	.150	WNMG332RM	R	●	●	●	.375	.187	.031	.150
WNMG332LM	L	●	●	●	.375	.187	.031	.150	WNMG333RM	R	●	●	●	.375	.187	.047	.150
WNMG431LM	L	●	●	●	.500	.187	.016	.203	WNMG432RM	R	●	●	●	.500	.187	.031	.203
WNMG432LM	L	●	●	●	.500	.187	.031	.203	WNMG433RM	R	●	●	●	.500	.187	.047	.203
WNMG32.51SH	L			●	.375	.156	.016	.150									
WNMG32.52SH	L			●	.375	.156	.031	.150									
WNMG331SH	L			●	.375	.187	.016	.150									
WNMG332SH	L			●	.375	.187	.031	.150									
WNMG431SH	L			●	.500	.187	.016	.203									
WNMG432SH	L			●	.500	.187	.031	.203									
WNMG332MM	M	●	●	●	.375	.187	.031	.150									
WNMG333MM	M	●	●	●	.375	.187	.047	.150									
WNMG432MM	M	●	●	●	.500	.187	.031	.203									
WNMG433MM	M	●	●	●	.500	.187	.047	.203									
WNMG32.51MA	M	●	●	●	.375	.156	.016	.150									
WNMG32.52MA	M	●	●	●	.375	.156	.031	.150									
WNMG32.53MA	M	●	●	●	.375	.156	.047	.150									
WNMG332MA	M	●	●	●	.375	.187	.031	.150									
WNMG333MA	M	●	●	●	.375	.187	.047	.150									
WNMG431MA	M	●	●	●	.500	.187	.016	.203									
WNMG432MA	M	●	●	●	.500	.187	.031	.203									
WNMG433MA	M	●	●	●	.500	.187	.047	.203									
WNMG331GM	M	●	●	●	.375	.187	.016	.150									
WNMG332GM	M	●	●	●	.375	.187	.031	.150									
WNMG431GM	M	●	●	●	.500	.187	.016	.203									
WNMG432GM	M	●	●	●	.500	.187	.031	.203									
WNMG433GM	M	●	●	●	.500	.187	.047	.203									
WNMG432GH	M	●	●	●	.500	.187	.031	.203									
WNMG433GH	M	●	●	●	.500	.187	.047	.203									

● : USA Stock
(10 inserts in one case)

MC/MP7100 Series**NEW****7°, 11° Positive Inserts (With Hole)**

M Class



Finish	Light	Medium	Medium
FM	LM	MM	MV
Light	Medium	Medium	
LM	MV		

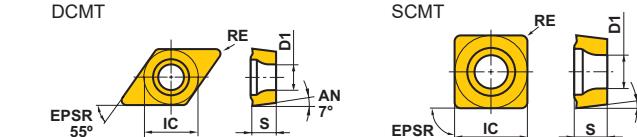
(inch)

Order Number	Cutting Area	MC7115	MC7125	MP7135	IC	S	RE	D1
CCMT21.50.5FM	F	●			.250	.094	.008	.110
CCMT21.51FM	F	●	●	●	.250	.094	.016	.110
CCMT32.50.5FM	F	●	●		.375	.156	.008	.173
CCMT32.51FM	F	●	●	●	.375	.156	.016	.173
CCMT32.52FM	F	●	●	●	.375	.156	.031	.173
CCMT21.51LM	L	●	●	●	.250	.094	.016	.110
CCMT21.52LM	L	●	●	●	.250	.094	.031	.110
CCMT32.51LM	L	●	●	●	.375	.156	.016	.173
CCMT32.52LM	L	●	●	●	.375	.156	.031	.173
CCMT21.50.5MM	M	●	●	●	.250	.094	.008	.110
CCMT21.51MM	M	●	●	●	.250	.094	.016	.110
CCMT21.52MM	M	●	●	●	.250	.094	.031	.110
CCMT32.50.5MM	M	●	●	●	.375	.156	.008	.173
CCMT32.51MM	M	●	●	●	.375	.156	.016	.173
CCMT32.52MM	M	●	●	●	.375	.156	.031	.173
CCMT431MM	M	●	●	●	.500	.187	.016	.217
CCMT432MM	M	●	●	●	.500	.187	.031	.217
CCMT433MM	M	●	●	●	.500	.187	.047	.217
CCMH21.50.5MV	M	●	●	●	.250	.094	.008	.110
CCMH21.51MV	M	●	●	●	.250	.094	.016	.110

Order Number	Cutting Area	MC7115	MC7125	MP7135	IC	S	RE	D1
CPMH2.51.51LM	L	●	●	●	.313	.094	.016	.138
CPMH2.51.52LM	L	●	●	●	.313	.094	.031	.138
CPMH321LM	L	●	●	●	.375	.125	.016	.177
CPMH322LM	L	●	●	●	.375	.125	.031	.177
CPMH2.51.51MV	M	●	●	●	.313	.094	.016	.138
CPMH2.51.52MV	M	●	●	●	.313	.094	.031	.138
CPMH321MV	M	●	●	●	.375	.125	.016	.177
CPMH322MV	M	●	●	●	.375	.125	.031	.177

7° Positive Inserts (With Hole)

M Class



Finish	Light	Medium	Medium
FM	LM	MM	MV
Light	Medium	Medium	
LM	MM		

(inch)

Order Number	Cutting Area	MC7115	MC7125	MP7135	IC	S	RE	D1
DCMT21.50.5FM	F	●			.250	.094	.008	.110
DCMT21.51FM	F	●	●		.250	.094	.016	.110
DCMT32.50.5FM	F	●	●		.375	.156	.008	.173
DCMT32.51FM	F	●	●	●	.375	.156	.016	.173
DCMT32.52FM	F	●	●	●	.375	.156	.031	.173
DCMT21.50.5LM	L	●			.250	.094	.008	.110
DCMT21.51LM	L	●	●	●	.250	.094	.016	.110
DCMT21.52LM	L	●	●	●	.250	.094	.031	.110
DCMT32.50.5LM	L	●			.375	.156	.008	.173
DCMT32.51LM	L	●	●	●	.375	.156	.016	.173
DCMT32.52LM	L	●	●	●	.375	.156	.031	.173
DCMT21.50.5MM	M	●	●	●	.250	.094	.008	.110
DCMT21.51MM	M	●	●	●	.250	.094	.016	.110
DCMT21.52MM	M	●	●	●	.250	.094	.031	.110
DCMT32.50.5MM	M	●			.375	.156	.008	.173
DCMT32.51MM	M	●	●	●	.375	.156	.016	.173
DCMT32.52MM	M	●	●	●	.375	.156	.031	.173
DCMT431MM	M	●	●	●	.500	.187	.016	.217
DCMT432MM	M	●	●	●	.500	.187	.031	.217
DCMT433MM	M	●	●	●	.500	.187	.047	.217
DCMH21.50.5MV	M	●	●	●	.250	.094	.008	.110
DCMH21.51MV	M	●	●	●	.250	.094	.016	.110
DCMT21.52MV	M	●	●	●	.250	.094	.031	.110
DCMT32.50.5MV	M	●	●	●	.375	.156	.008	.173
DCMT32.51MV	M	●	●	●	.375	.156	.016	.173
DCMT32.52MV	M	●	●	●	.375	.156	.031	.173

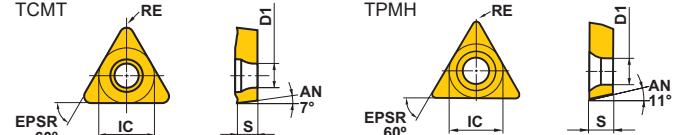
● : USA Stock
(10 inserts in one case)

MC/MP7100 Series

NEW

7°, 11° Positive Inserts (With Hole)

M Class



Finish	Light	Medium
FM	LM	MM

Light	Medium
LM	MV

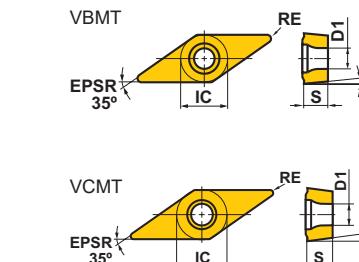
(inch)

Order Number	Cutting Area	MC7115	MC7125	MP7135	IC	S	RE	D1
TCMT1.81.51FM	F	●	●	●	.219	.094	.016	.098
TCMT1.81.51LM	L	●	●	●	.219	.094	.016	.098
TCMT21.51LM	L	●	●	●	.250	.094	.016	.110
TCMT21.52LM	L	●	●	●	.250	.094	.031	.110
TCMT32.51LM	L	●	●	●	.375	.156	.016	.173
TCMT32.52LM	L	●	●	●	.375	.156	.031	.173
TCMT1.81.51MM	M	●	●	●	.219	.094	.016	.098
TCMT1.81.52MM	M	●	●	●	.219	.094	.031	.098
TCMT21.51MM	M	●	●	●	.250	.094	.016	.110
TCMT21.52MM	M	●	●	●	.250	.094	.031	.110
TCMT2.521MM	M	●	●	●	.313	.125	.016	.134
TCMT32.51MM	M	●	●	●	.375	.156	.016	.173
TCMT32.52MM	M	●	●	●	.375	.156	.031	.173
TCMT32.53MM	M	●	●	●	.375	.156	.047	.173

Order Number	Cutting Area	MC7115	MC7125	MP7135	IC	S	RE	D1
TPMH1.81.51LM	L	●	●	●	.219	.094	.016	.114
TPMH221LM	L	●	●	●	.250	.125	.016	.134
TPMH222LM	L	●	●	●	.250	.125	.031	.134
TPMH321LM	L	●	●	●	.375	.125	.016	.173
TPMH322LM	L	●	●	●	.375	.125	.031	.173
TPMH1.51.50.5MV	M	●	●	●	.187	.094	.008	.094
TPMH1.51.51MV	M	●	●	●	.187	.094	.016	.094
TPMH1.81.51MV	M	●	●	●	.219	.094	.016	.114
TPMH1.81.52MV	M	●	●	●	.219	.094	.031	.114
TPMH220.5MV	M	●	●	●	.250	.125	.008	.134
TPMH221MV	M	●	●	●	.250	.125	.016	.134
TPMH222MV	M	●	●	●	.250	.125	.031	.134
TPMH321MV	M	●	●	●	.375	.125	.016	.173
TPMH322MV	M	●	●	●	.375	.125	.031	.173

5°, 7° Positive Inserts (With Hole)

M Class



Finish	Light	Medium	Medium
FM	LM	MM	MV

Finish	Light	Medium	Medium
FM	LM	MM	MV

(inch)

Order Number	Cutting Area	MC7115	MC7125	MP7135	IC	S	RE	D1
VBMT220.5FM	F	●	●	●	.250	.125	.008	.114
VBMT221FM	F	●	●	●	.250	.125	.016	.114
VBMT222FM	F	●	●	●	.250	.125	.031	.114
VBMT331FM	F	●	●	●	.375	.187	.016	.173
VBMT332FM	F	●	●	●	.375	.187	.031	.173
VBMT221LM	L	●	●	●	.250	.125	.016	.114
VBMT222LM	L	●	●	●	.250	.125	.031	.114
VBMT331LM	L	●	●	●	.375	.187	.016	.173
VBMT332LM	L	●	●	●	.375	.187	.031	.173
VBMT331MM	M	●	●	●	.375	.187	.016	.173
VBMT332MM	M	●	●	●	.375	.187	.031	.173
VBMT221MV	M	●	●	●	.250	.125	.016	.114
VBMT222MV	M	●	●	●	.250	.125	.031	.114
VBMT331MV	M	●	●	●	.375	.187	.016	.173
VBMT332MV	M	●	●	●	.375	.187	.031	.173

● : USA Stock
(10 inserts in one case)

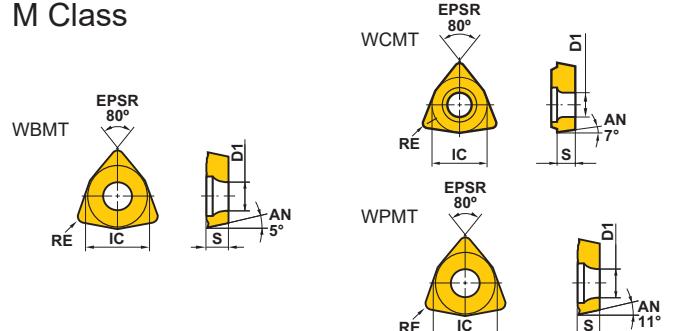
Coated Grade for Stainless Steel Turning

MC/MP7100 Series

NEW

5°, 7°, 11° Positive Inserts (With Hole)

M Class



Order Number	Cutting Area	MC7115	MC7125	MP7135	IC	S	RE	D1
WBMT1.51.50.5LMV	M	●			.187	.094	.008	.091
WBMT1.51.51LMV	M	●	●		.187	.094	.016	.091
WCMT1.210.5MM	M	●	●		.156	.063	.008	.091
WCMT1.211MM	M	●	●		.156	.063	.016	.091
WCMT1.51.50.5MM	M	●	●		.375	.094	.008	.173
WCMT1.51.51MM	M	●	●		.375	.094	.016	.173
WCMT21.50.5MM	M	●	●		.156	.094	.008	.091
WCMT21.51MM	M	●	●		.156	.094	.016	.091
WCMT32.51MM	M	●	●		.375	.156	.016	.173
WCMT32.52MM	M	●	●		.375	.156	.031	.173



(inch)

Recommended Cutting Conditions

Negative Inserts (For External Turning)

Cutting Range	Priority	Grade	Chipbreaker	Cutting Speed vc (SFM)	Feed f (IPR)	Depth of Cut ap (inch)	Cutting Range	Priority	Grade	Chipbreaker	Cutting Speed vc (SFM)	Feed f (IPR)	Depth of Cut ap (inch)						
M Austenitic Stainless Steel Hardness≤200 HB																			
● L 1 MC7115	LM	605–970	.004–.014	.012–.079	● L 1 MC7125	LM	575–785	.004–.014	.012–.079	● L 1 MC7125	LM	575–785	.004–.014	.012–.079					
● L 2 MC7125	LM	575–785	.004–.014	.012–.079	● M 1 MC7115	MM	560–885	.006–.018	.028–.197	● M 1 MC7125	MM	525–720	.006–.020	.020–.157					
● M 1 MC7115	MM	560–885	.006–.018	.028–.197	● R 1 MC7115	RM	525–835	.010–.022	.059–.236	● M 2 MC7125	MA	525–720	.008–.020	.012–.157					
● R 1 MC7115	RM	525–835	.010–.022	.059–.236	● H 1 MC7125	HL	440–605	.012–.028	.118–.295	● M 3 MC7125	GM	395–510	.006–.020	.020–.157					
● H 1 MC7125	HL	440–605	.012–.028	.118–.295	● L 1 MC7125	LM	575–785	.004–.014	.012–.079	● M 4 MP7135	MM	395–510	.006–.018	.028–.197					
● M 1 MC7125	MM	525–720	.006–.018	.028–.197	● M 2 MC7125	GM	525–720	.006–.020	.020–.157	● M 5 MP7135	MM	395–510	.006–.018	.028–.197					
● M 2 MC7125	GM	525–720	.006–.020	.020–.157	● M 3 MC7125	MA	525–720	.008–.020	.012–.157	● R 1 MC7125	MA	490–670	.010–.022	.059–.236					
● M 3 MC7125	MA	525–720	.008–.020	.012–.157	● M 4 MP7135	GM	395–510	.006–.020	.020–.157	● R 2 MP7135	RM	360–475	.010–.022	.059–.236					
● R 1 MC7125	RM	490–670	.010–.022	.059–.236	● M 5 MP7135	MM	395–510	.006–.018	.028–.197	● R 3 MP7135	GH	360–475	.010–.024	.059–.236					
● R 2 MP7135	RM	360–475	.010–.022	.059–.236	● H 1 MC7125	HL	440–605	.012–.028	.118–.295	● H 2 MC7125	HM	440–605	.020–.043	.079–.394					
● H 2 MP7135	SH	425–560	.004–.016	.012–.079	● L 1 MP7135	SH	425–560	.004–.016	.012–.079	● L 2 MP7135	GM	395–510	.006–.020	.020–.157					
● L 1 MP7135	GM	395–510	.006–.020	.020–.157	● M 1 MP7135	MM	395–510	.006–.018	.028–.197	● M 2 MP7135	MM	395–510	.006–.018	.028–.197					
● M 2 MP7135	MM	395–510	.006–.018	.028–.197	● M 3 MP7135	MA	395–510	.008–.020	.012–.157	● M 4 MP7135	MA	395–510	.008–.020	.012–.157					
● M 3 MP7135	MA	395–510	.008–.020	.012–.157	● R 1 MP7135	RM	360–475	.010–.022	.059–.236	● R 2 MP7135	GH	360–475	.010–.022	.059–.236					
● R 2 MP7135	GH	360–475	.010–.024	.059–.236	● H 1 MC7125	HL	440–605	.012–.028	.118–.295	● H 2 MC7125	HM	440–605	.020–.043	.079–.394					
● H 2 MC7125	HM	440–605	.020–.043	.079–.394	M Ferritic and Martensitic Stainless Steel Hardness>200 HB														
● L 1 MC7115	LM	510–805	.004–.014	.012–.079	● L 2 MC7125	LM	475–655	.004–.014	.012–.079	● M 1 MC7115	MM	460–740	.006–.018	.028–.197	● R 1 MC7115	RM	440–705	.010–.022	.059–.236
● L 2 MC7125	LM	475–655	.004–.014	.012–.079	● H 1 MC7125	HL	360–510	.012–.028	.118–.295	● H 2 MC7125	HM	360–510	.020–.043	.079–.394	● H 1 MC7125	HL	360–510	.012–.028	.118–.295
● M 1 MC7115	MM	460–740	.006–.018	.028–.197	● M 2 MC7125	HM	360–510	.020–.043	.079–.394	● M 3 MC7125	MM	460–740	.006–.018	.028–.197	● M 4 MC7125	GM	425–590	.006–.020	.020–.157
● M 2 MC7125	HM	360–510	.020–.043	.079–.394	● L 1 MC7125	MA	425–590	.006–.018	.028–.197	● L 2 MC7125	GM	330–425	.006–.020	.020–.157	● M 5 MP7135	MM	330–425	.006–.018	.028–.197
● M 3 MC7125	MA	425–590	.006–.018	.028–.197	● M 6 MP7135	MA	330–425	.008–.020	.012–.157	● M 7 MP7135	MA	330–425	.008–.020	.012–.157	● R 1 MC7125	RM	410–575	.010–.022	.059–.236
● M 4 MC7125	GM	425–590	.006–.020	.020–.157	● C 1 MC7125	LM	475–655	.004–.014	.012–.079	● C 2 MC7125	HM	360–510	.020–.043	.079–.394	● C 3 MC7125	MM	425–590	.006–.018	.028–.197
● C 5 MP7135	MM	330–425	.006–.018	.028–.197	● C 6 MP7135	MA	330–425	.008–.020	.012–.157	● C 8 R 1 MC7125	RM	310–395	.010–.022	.059–.236	● C 9 R 2 MP7135	GH	310–395	.010–.024	.059–.236
● C 7 R 1 MC7125	HL	360–510	.012–.028	.118–.295	● C 10 R 2 MP7135	SH	360–460	.004–.014	.012–.079	● C 11 H 1 MC7125	HL	360–510	.020–.043	.079–.394	● C 12 H 2 MC7125	HM	360–510	.020–.043	.079–.394
● C 13 M 1 MP7135	GM	330–425	.006–.020	.020–.157	● C 14 M 2 MP7135	MM	330–425	.006–.018	.028–.197	● C 15 M 3 MP7135	MA	330–425	.006–.018	.028–.197	● C 16 R 1 MP7135	RM	310–395	.010–.022	.059–.236
● C 17 M 4 MP7135	MM	330–425	.006–.018	.028–.197	● C 18 M 5 MP7135	MA	330–425	.008–.020	.012–.157	● C 19 M 6 MP7135	MA	330–425	.008–.020	.012–.157	● C 20 R 1 MP7135	GH	310–395	.010–.024	.059–.236
● C 21 M 7 MP7135	MA	330–425	.008–.020	.012–.157	● C 22 H 1 MC7125	HL	360–460	.004–.016	.012–.079	● C 23 H 2 MC7125	HM	360–460	.004–.016	.012–.079	● C 24 L 1 MP7135	SH	360–460	.004–.016	.012–.079
● C 25 L 2 MP7135	GM	330–425	.006																

Recommended Cutting Conditions

Negative Inserts (For External Turning)

Cutting Range	Priority	Grade	Chipbreaker	Cutting Speed vc (SFM)	Feed f (IPR)	Depth of Cut ap (inch)
M Two-phase Stainless Steel Hardness≤280 HB						
● R 3 MC7125 RM	330–460	.010–.022	.059–.236			
● H 1 MC7125 HL	295–410	.012–.028	.118–.295			
● H 2 MC7125 HM	295–410	.020–.043	.079–.394			
● L 1 MP7135 LM	280–375	.004–.014	.012–.079			
● L 2 MP7135 SH	280–375	.004–.016	.012–.079			
● L 3 MC7125 LM	375–525	.004–.014	.012–.079			
● M 1 MP7135 GM	260–345	.006–.020	.020–.157			
● M 2 MP7135 MM	260–345	.006–.018	.028–.197			
● M 3 MP7135 MA	260–345	.008–.020	.012–.157			
● M 4 MC7125 MM	345–475	.006–.018	.028–.197			
● M 5 MC7125 GM	345–475	.006–.020	.020–.157			
● M 6 MC7125 MA	345–475	.008–.020	.012–.157			
● R 1 MP7135 RM	245–330	.010–.022	.059–.236			
● R 2 MP7135 GH	245–330	.010–.024	.059–.236			
● R 3 MC7125 RM	330–460	.010–.022	.059–.236			
● H 1 MC7125 HL	295–410	.012–.028	.118–.295			
● H 2 MC7125 HM	295–410	.020–.043	.079–.394			
● L 1 MP7135 LM	280–375	.004–.014	.012–.079			
● L 2 MP7135 SH	280–375	.004–.016	.012–.079			
● M 1 MP7135 GM	260–345	.006–.020	.020–.157			
● M 2 MP7135 MM	260–345	.006–.018	.028–.197			
● M 3 MP7135 MA	260–345	.008–.020	.012–.157			
● R 1 MP7135 RM	245–330	.010–.022	.059–.236			
● R 2 MP7135 GH	245–330	.010–.024	.059–.236			
● H 1 MC7125 HL	295–410	.012–.028	.118–.295			
● H 2 MC7125 HM	295–410	.020–.043	.079–.394			
M Precipitation-Hardening Stainless Steel Hardness<450 HB						
● L 1 MC7115 LM	360–540	.004–.014	.012–.079			
● L 2 MC7125 LM	310–395	.004–.014	.012–.079			
● M 1 MC7115 MM	330–490	.006–.018	.028–.197			
● R 1 MC7115 RM	310–460	.010–.022	.059–.236			
● H 1 MC7125 HL	245–295	.016–.039	.059–.315			
● H 2 MC7125 HM	245–295	.020–.043	.079–.394			
● L 1 MC7125 LM	310–395	.004–.014	.012–.079			
● L 2 MP7135 LM	230–310	.004–.014	.012–.079			
● L 3 MP7135 SH	230–310	.004–.016	.012–.079			
● M 1 MC7125 MM	295–360	.006–.018	.028–.197			
● M 2 MC7125 GM	295–360	.006–.020	.020–.157			
● M 3 MC7125 MA	295–360	.004–.012	.020–.118			
● M 4 MP7135 GM	210–295	.006–.020	.020–.157			
● M 5 MP7135 MM	210–295	.006–.018	.028–.197			
● M 6 MP7135 MA	210–295	.004–.012	.020–.118			
● R 1 MC7125 RM	280–330	.010–.022	.059–.236			
● R 2 MP7135 RM	195–280	.010–.022	.059–.236			
● R 3 MP7135 GH	195–280	.010–.024	.059–.236			
● H 1 MC7125 HL	245–295	.016–.039	.059–.315			
● H 2 MC7125 HM	245–295	.020–.039	.079–.394			
● L 1 MP7135 LM	230–310	.004–.014	.012–.079			
● L 2 MP7135 SH	230–310	.004–.016	.012–.079			
● M 1 MP7135 MM	210–295	.006–.018	.028–.197			
● R 1 MP7135 RM	195–280	.010–.022	.059–.236			
● R 2 MP7135 GH	195–280	.010–.024	.059–.236			
● H 1 MC7125 HL	245–295	.016–.039	.059–.315			
● H 2 MC7125 HM	245–295	.020–.043	.079–.394			

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.

7° Positive Inserts (For External Turning)

Cutting Range	Priority	Grade	Chipbreaker	Cutting Speed vc (SFM)	Feed f (IPR)	Depth of Cut ap (inch)
M Austenitic Stainless Steel Hardness≤200 HB						
● F 1 MC7115 FM	525–835	.002–.008	.008–.035			
● F 2 MC7125 FM	490–690	.002–.008	.008–.035			
● L 1 MC7125 LM	490–690	.002–.010	.008–.039			
● L 2 MC7115 LM	525–835	.002–.010	.008–.039			
● M 1 MC7125 MM	410–575	.003–.012	.012–.079			
● M 2 MC7125 MV	410–575	.003–.012	.012–.079			
● M 3 MC7115 MM	440–705	.003–.012	.012–.079			
● F 1 MC7125 FM	490–690	.002–.008	.008–.035			
● L 1 MC7125 LM	490–690	.002–.010	.008–.039			
● L 2 MP7135 LM	375–475	.002–.010	.008–.039			
● M 1 MC7125 MM	410–575	.003–.012	.012–.079			
● M 2 MC7125 MV	410–575	.003–.012	.012–.079			
● F 1 MP7135 FM	375–475	.002–.008	.008–.035			
● L 1 MP7135 LM	375–475	.002–.010	.008–.039			
● M 1 MP7135 MM	310–395	.003–.012	.012–.079			
● M 2 MP7135 MV	310–395	.003–.012	.012–.079			
M Ferritic and Martensitic Stainless Steel Hardness>200 HB						
● F 1 MC7125 FM	410–575	.002–.008	.008–.035			
● F 2 MC7115 FM	440–705	.002–.008	.008–.035			
● L 1 MC7125 LM	410–575	.002–.010	.008–.039			
● L 2 MC7115 LM	440–705	.002–.010	.008–.039			
● M 1 MC7125 MM	345–475	.003–.012	.012–.079			
● M 2 MC7125 MV	345–475	.003–.012	.012–.079			
● F 1 MP7135 FM	310–395	.002–.010	.008–.039			
● L 1 MP7135 LM	310–395	.002–.010	.008–.039			
● M 1 MP7135 MM	210–260	.003–.012	.012–.079			
● M 2 MC7125 MM	280–375	.003–.012	.012–.079			
● M 3 MC7125 MV	280–375	.003–.012	.012–.079			
● M 4 MC7115 MM	295–475	.003–.012	.012–.079			
● F 1 MC7125 FM	330–460	.002–.008	.008–.035			
● L 1 MC7125 LM	330–460	.002–.010	.008–.039			
● M 1 MC7125 MM	280–375	.003–.012	.012–.079			
● M 2 MC7125 MV	280–375	.003–.012	.012–.079			
● F 1 MP7135 FM	245–330	.002–.008	.008–.035			
● L 1 MP7135 LM	245–330	.002–.010	.008–.039			
● M 1 MP7135 MM	210–260	.003–.012	.012–.079			
● M 2 MP7135 MV	210–260	.003–.012	.012–.079			
M Precipitation-Hardening Stainless Steel Hardness<450 HB						
● F 1 MC7115 FM	310–460	.002–.008	.008–.035			
● L 1 MC7115 LM	310–460	.002–.008	.008–.039			
● L 2 MC7125 LM	280–345	.002–.008	.008–.039			
● M 1 MC7115 MM	260–395	.003–.01				

11° Positive Inserts (For External Turning)

Cutting Range	Priority	Grade	Chipbreaker	Cutting Speed vc (SFM)	Feed f (IPR)	Depth of Cut ap (inch)
M Austenitic Stainless Steel Hardness≤200 HB						
● L 1	MC7125	LM	490–690	.002–.010	.008–.039	
● L 2	MC7115	LM	525–835	.002–.010	.008–.039	
● M 1	MC7125	MM	410–575	.003–.012	.012–.079	
● M 2	MC7115	MM	440–705	.003–.012	.012–.079	
● L 1	MC7125	LM	490–690	.002–.010	.008–.039	
● M 1	MC7125	MM	410–575	.003–.012	.012–.079	
● M 2	MC7125	MV	410–575	.003–.012	.012–.079	
❖ L 1	MP7135	LM	375–475	.002–.010	.008–.039	
❖ M 1	MP7135	MM	310–395	.003–.012	.012–.079	
❖ M 2	MP7135	MV	310–395	.003–.012	.012–.079	
M Austenitic Stainless Steel Hardness>200 HB						
● L 1	MC7125	LM	410–575	.002–.010	.008–.039	
● L 2	MC7115	LM	440–705	.002–.010	.008–.039	
● M 1	MC7125	MM	345–475	.003–.012	.012–.079	
● M 2	MC7125	MV	345–475	.003–.012	.012–.079	
● M 3	MC7115	MM	360–590	.003–.012	.012–.079	
● L 1	MC7125	LM	410–575	.002–.010	.008–.039	
● M 1	MC7125	MM	345–475	.003–.012	.012–.079	
● M 2	MC7125	MV	345–475	.003–.012	.012–.079	
❖ L 1	MP7135	LM	310–395	.002–.010	.008–.039	
❖ M 1	MP7135	MM	260–330	.003–.012	.012–.079	
❖ M 2	MP7135	MV	260–330	.003–.012	.012–.079	
M Ferritic and Martensitic Stainless Steel Hardness≤200 HB						
● L 1	MC7125	LM	490–690	.002–.010	.008–.039	
● L 2	MC7115	LM	525–835	.002–.010	.008–.039	
● M 1	MC7125	MM	410–575	.003–.012	.012–.079	
● M 2	MC7125	MV	410–575	.003–.012	.012–.079	
● M 3	MC7115	MM	440–705	.003–.012	.012–.079	
● L 1	MC7125	LM	490–690	.002–.010	.008–.039	
● M 1	MC7125	MM	410–575	.003–.012	.012–.079	
● M 2	MC7125	MV	410–575	.003–.012	.012–.079	
❖ L 1	MP7135	LM	310–395	.002–.010	.008–.039	
❖ M 1	MP7135	MM	260–330	.003–.012	.012–.079	
❖ M 2	MP7135	MV	260–330	.003–.012	.012–.079	
M Ferritic and Martensitic Stainless Steel Hardness>200 HB						
● L 1	MC7125	LM	410–575	.002–.010	.008–.039	
● L 2	MC7115	LM	440–705	.002–.010	.008–.039	
● M 1	MC7125	MM	345–475	.003–.012	.012–.079	
● M 2	MC7125	MV	345–475	.003–.012	.012–.079	
● M 3	MC7115	MM	360–590	.003–.012	.012–.079	
● L 1	MC7125	LM	410–575	.002–.010	.008–.039	
● M 1	MC7125	MM	345–475	.003–.012	.012–.079	
● M 2	MC7125	MV	345–475	.003–.012	.012–.079	
❖ L 1	MP7135	LM	310–395	.002–.010	.008–.039	
❖ M 1	MP7135	MM	260–330	.003–.012	.012–.079	
❖ M 2	MP7135	MV	260–330	.003–.012	.012–.079	
M Two-phase Stainless Steel Hardness≤280 HB						
● L 1	MC7125	LM	330–460	.002–.010	.008–.039	
● L 2	MC7115	LM	360–575	.002–.010	.008–.039	
● M 1	MC7125	MM	280–375	.003–.012	.012–.079	
● M 2	MC7125	MV	280–375	.003–.012	.012–.079	
● M 3	MC7115	MM	295–475	.003–.012	.012–.079	
● L 1	MP7135	LM	245–330	.002–.010	.008–.039	
● L 2	MC7125	LM	330–460	.002–.010	.008–.039	
● M 1	MC7125	MM	280–375	.003–.012	.012–.079	
● M 2	MC7125	MV	280–375	.003–.012	.012–.079	
❖ L 1	MP7135	LM	245–330	.002–.010	.008–.039	
❖ M 1	MP7135	MM	210–260	.003–.012	.012–.079	
❖ M 2	MP7135	MV	210–260	.003–.012	.012–.079	
M Precipitation-Hardening Stainless Steel Hardness<450 HB						
● L 1	MC7125	LM	280–345	.002–.008	.008–.039	
● L 2	MC7115	LM	310–460	.002–.008	.008–.039	
● M 1	MC7125	MM	230–280	.003–.010	.012–.079	
● M 2	MC7125	MV	230–280	.003–.012	.012–.079	
● L 1	MC7125	LM	280–345	.002–.008	.008–.039	
● M 1	MC7125	MM	230–280	.003–.010	.012–.079	
● M 2	MC7125	MV	230–280	.003–.012	.012–.079	
❖ L 1	MP7135	LM	195–280	.002–.008	.008–.039	
❖ M 1	MC7125	MM	230–280	.003–.010	.012–.079	
❖ M 2	MC7125	MV	230–280	.003–.012	.012–.079	

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.

Memo



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