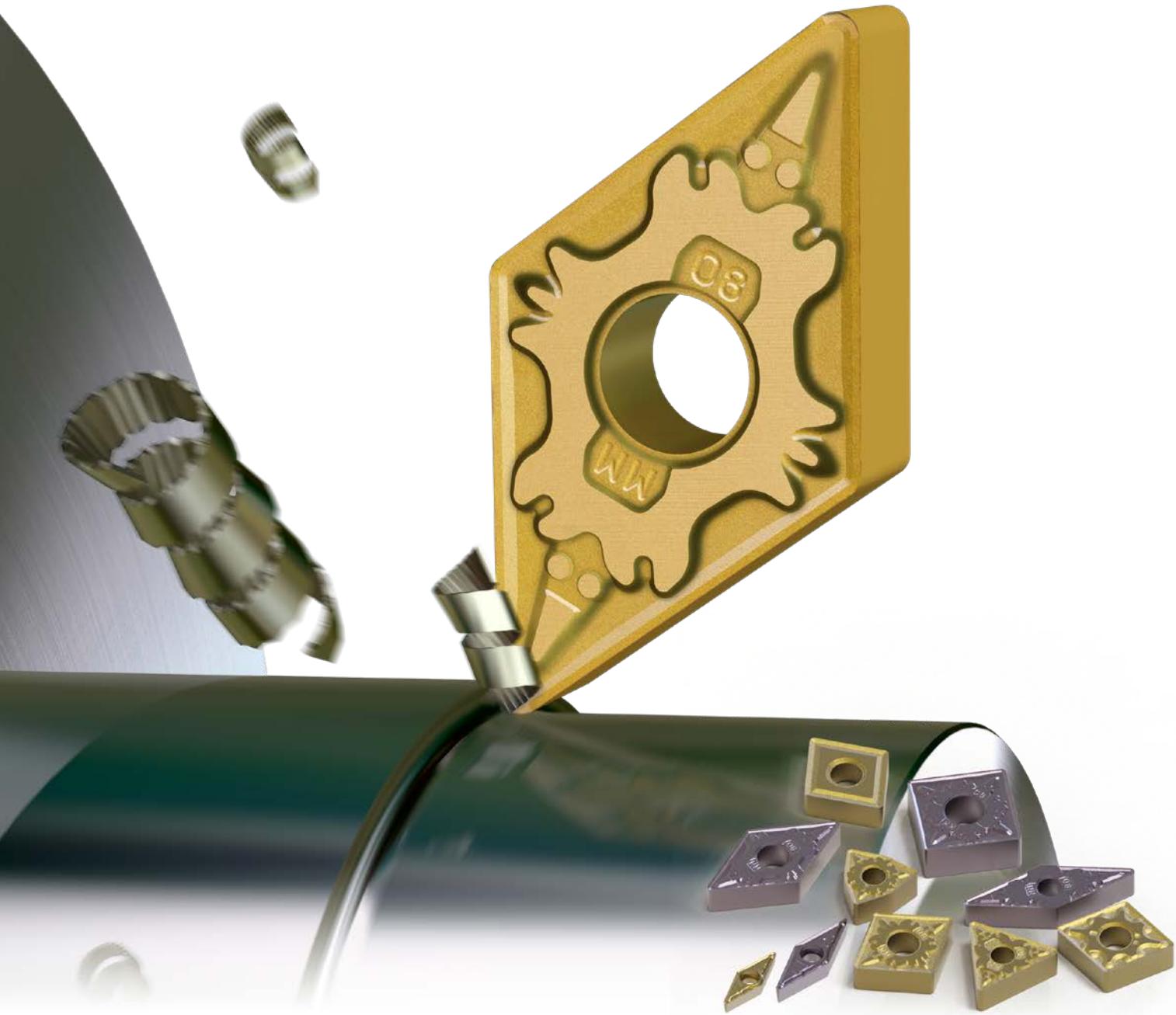


NEW

MC / MP7100 SERIES

DEDICATED CARBIDE SUBSTRATE
NEW COATING TECHNOLOGY FOR STAINLESS STEEL
TURNING



 MITSUBISHI MATERIALS

MC / MP7100 SERIES

CREATION OF A NEW SERIES FOR A VARIETY OF STAINLESS STEEL APPLICATIONS

MC7125



THE ALL ROUND CHOICE FOR STAINLESS STEEL TURNING

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.

MC7115



FOR HIGH SPEED TURNING

CVD coated carbide grade specialised
for high speed cutting.
For medium to large austenitic stainless steel
parts, cutting speeds of 250 m/min or more reduce
machining time.

MP7135



TOUGHER FOR INTERRUPTED CUTTING

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

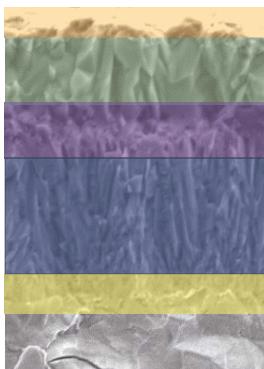


MC/MP7100 SERIES

MC7125

THE ALL-ROUNDER FOR STAINLESS STEEL TURNING

Incredibly stable with both plastic deformation and chipping resistance.



- TiN Layer
- Al₂O₃ Layer
- Super-TOUGH-Grip
- TiCN Layer
- SUB-Grip
- Carbide Substrate

COATING LAYER WITH HIGH ADHESIVE STRENGTH

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

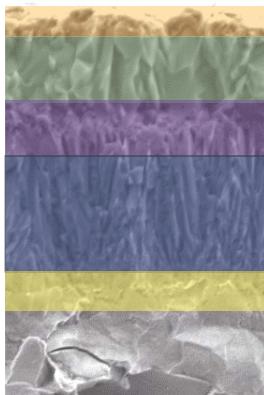
SUBSTRATE RESISTANT TO PLASTIC DEFORMATION AND CHIPPING

By optimising 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.

MC7115

FOR HIGH SPEED TURNING

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



- TiN Layer
- Al₂O₃ Layer
- Super-TOUGH-Grip
- TiCN Layer
- SUB-Grip
- Carbide Substrate

COATING LAYER WITH HIGH ADHESIVE STRENGTH

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

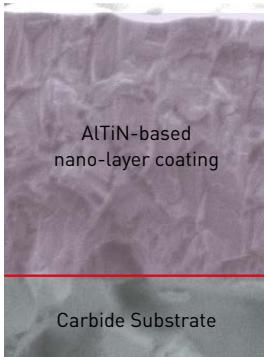
CARBIDE SUBSTRATE THAT IS STRONG FOR HIGH SPEED CUTTING

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.

MP7135

TOUGHER FOR INTERRUPTED CUTTING

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



- AlTiN-based nano-layer coating
- Carbide Substrate

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.

MC/MP7100 SERIES

COATED GRADE FOR STAINLESS STEEL TURNING

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, and 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

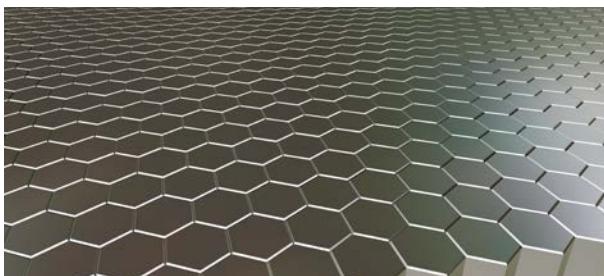


Plastic deformation

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 Al_2O_3 coatings. This Super Nano Texture Technology increases tool life and wear resistance due to the process that creates fine, dense crystal growth.

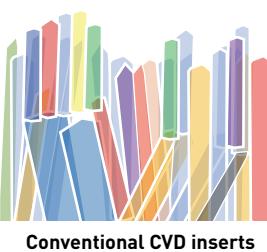


MC7100				
Conventional				

The ratio of Al_2O_3 crystal grains with the same orientation

CRYSTAL ORIENTATION

(Image)



Conventional CVD inserts

Grain size and growth direction are uneven.



Nano Texture

Uniformity of the grain size and growth direction has improved.



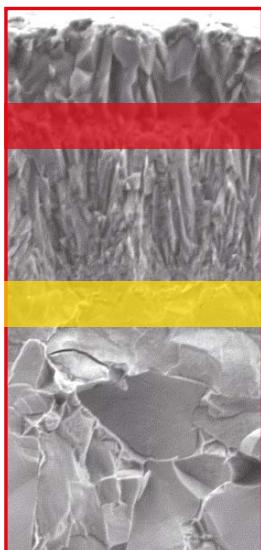
“Super” Nano Texture

Uniformity of the growth direction has drastically improved.

MC / MP7100 SERIES

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 Al_2O_3 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 THE CARBIDE SUBSTRATES

MC7115

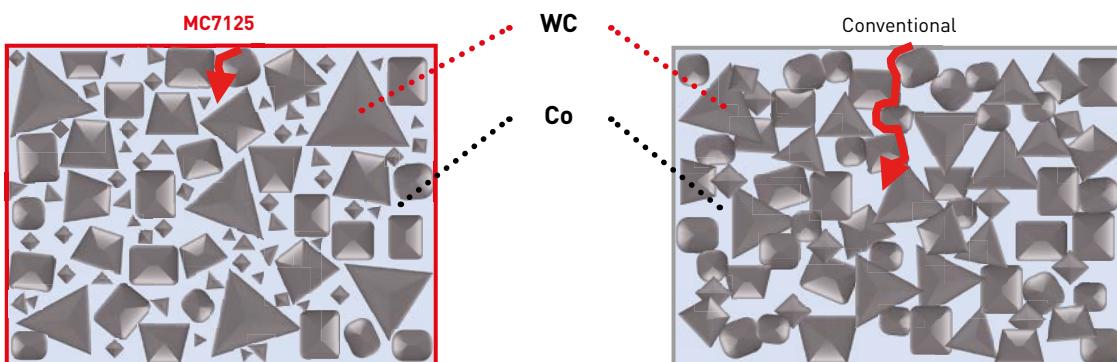
Has crater wear and plastic deformation resistance that are ideal for high-speed cutting of stainless steel.

MP7135

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

MC7125

By optimising 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.



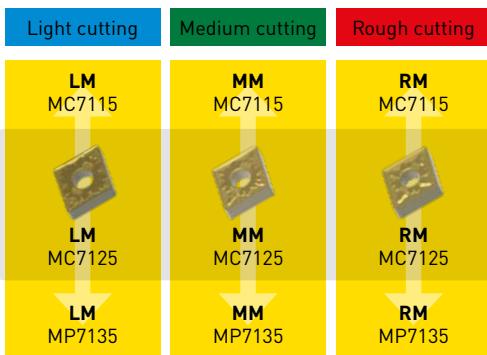
Reduces **WC** boundaries and suppresses crack growth.

Cracks grow along the **WC** boundaries that are lower in toughness.

CHIPBREAKER SYSTEM

NEGATIVE INSERT FOR EXTERNAL TURNING

M



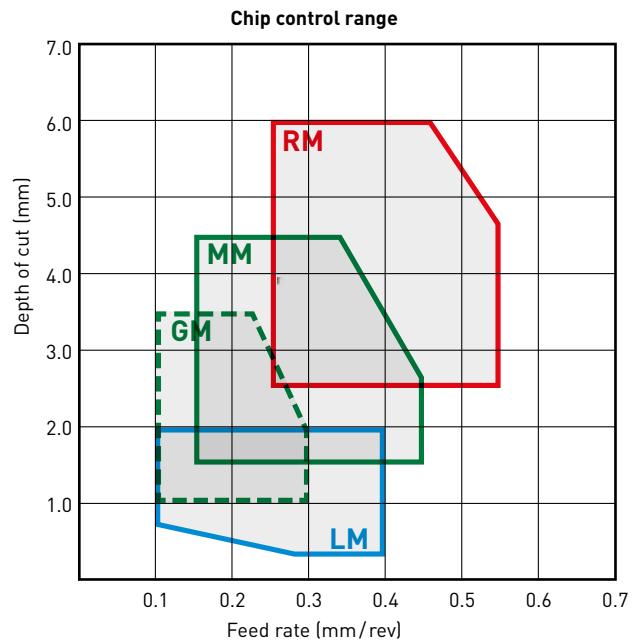
Stable cutting

- Continuous cutting
- Constant depth of cut
- Pre-machined surfaces
- Securely clamped component cutting

General cutting

Unstable cutting

- Heavy interrupted cutting
- Irregular depth of cut
- Low clamping rigidity cutting

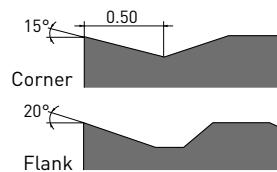


MAIN CHIPBREAKER

LM CHIPBREAKER FOR LIGHT CUTTING

Excellent burr control

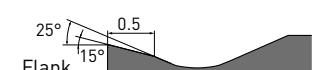
Reduces the incidence of burrs drastically because the sharpness properties and cutting edge strength are optimised with different rake angles.



GM CHIPBREAKER

Interpolated chipbreaker

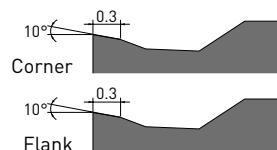
Sub chipbreaker of the main LM and MM chipbreaker. Excellent in notching resistance for light cutting to medium cutting.



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.



MA CHIPBREAKER

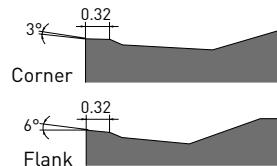
Multi-Assist chipbreaker

Suitable for medium cutting range.

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.



CHIPBREAKER SYSTEM

5°, 7°, 11° POSITIVE INSERT

M



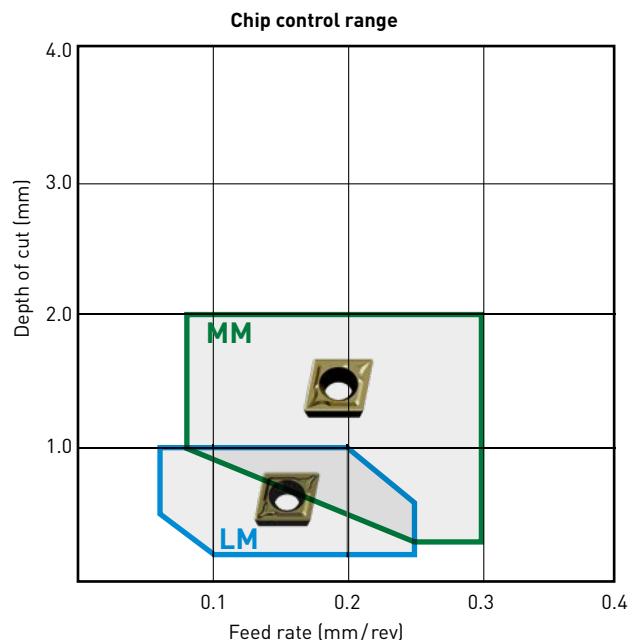
Stable cutting

- Continuous cutting
- Constant depth of cut
- Pre-machined surfaces
- Securely clamped component cutting

General cutting

Unstable cutting

- Heavy interrupted cutting
- Irregular depth of cut
- Low clamping rigidity cutting



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.



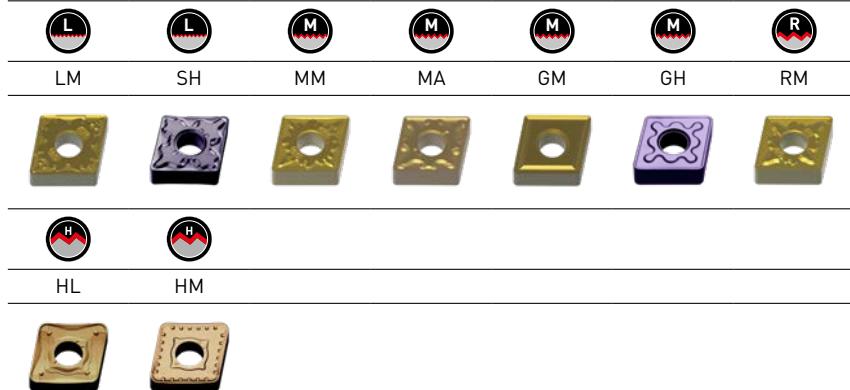
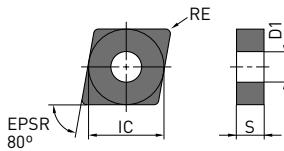
5°, 7° Positive Insert

CNMG, CNMM

NEGATIVE INSERTS (WITH HOLE)

M Class

CNMG, CNMM



Order number	 	MC7115	MC7125	MP7135	IC	S	RE	D1
CNMG120404-LM	L	●	●	●	12.7	4.76	0.4	5.16
CNMG120408-LM	L	●	●	●	12.7	4.76	0.8	5.16
CNMG120412-LM	L	●	●	●	12.7	4.76	1.2	5.16
CNMG120404-SH	L			●	12.7	4.76	0.4	5.16
CNMG120408-SH	L			●	12.7	4.76	0.8	5.16
CNMG120408-MM	M	●	●	●	12.7	4.76	0.8	5.16
CNMG120412-MM	M	●	●	●	12.7	4.76	1.2	5.16
CNMG120416-MM	M	●	●	●	12.7	4.76	1.6	5.16
CNMG160608-MM	M	●	●	●	15.875	6.35	0.8	6.35
CNMG160612-MM	M	●	●	●	15.875	6.35	1.2	6.35
CNMG160616-MM	M	●	●	●	15.875	6.35	1.6	6.35
CNMG190608-MM	M	●	●	●	19.05	6.35	0.8	7.93
CNMG190612-MM	M	●	●	●	19.05	6.35	1.2	7.93
CNMG190616-MM	M	●	●	●	19.05	6.35	1.6	7.93
CNMG120404-MA	M		●	●	12.7	4.76	0.4	5.16
CNMG120408-MA	M		●	●	12.7	4.76	0.8	5.16
CNMG120412-MA	M		●	●	12.7	4.76	1.2	5.16
CNMG120416-MA	M		●	●	12.7	4.76	1.6	5.16
CNMG160608-MA	M			●	15.875	6.35	0.8	6.35
CNMG160612-MA	M			●	15.875	6.35	1.2	6.35
CNMG160616-MA	M			●	15.875	6.35	1.6	6.35
CNMG190612-MA	M			●	19.05	6.35	1.2	7.93
CNMG190616-MA	M			●	19.05	6.35	1.6	7.93
CNMG120404-GM	M		●	●	12.7	4.76	0.4	5.16
CNMG120408-GM	M		●	●	12.7	4.76	0.8	5.16
CNMG120412-GM	M		●	●	12.7	4.76	1.2	5.16
CNMG120408-GH	M			●	12.7	4.76	0.8	5.16
CNMG120412-GH	M			●	12.7	4.76	1.2	5.16
CNMG160612-GH	M			●	15.875	6.35	1.2	6.35
CNMG190612-GH	M			●	19.05	6.35	1.2	7.93
CNMG190616-GH	M			●	19.05	6.35	1.6	7.93

1/2

(10 inserts in one case)

21 Vc

CNMG, CNMM – NEGATIVE INSERTS (WITH HOLE)

Order number							MC7115	MC7125	MP7135	IC	S	RE	D1
CNMG120408-RM	R	●		●				●	●	12.7	4.76	0.8	5.16
CNMG120412-RM	R	●		●				●	●	12.7	4.76	1.2	5.16
CNMG120416-RM	R	●		●				●	●	12.7	4.76	1.6	5.16
CNMG160612-RM	R	●		●				●	●	15.875	6.35	1.2	6.35
CNMG160616-RM	R	●		●				●	●	15.875	6.35	1.6	6.35
CNMG190612-RM	R	●		●				●	●	19.05	6.35	1.2	7.93
CNMG190616-RM	R	●		●				●	●	19.05	6.35	1.6	7.93
CNMM190612-HL	H			●					●	19.05	6.35	1.2	7.93
CNMM190616-HL	H			●					●	19.05	6.35	1.6	7.93
CNMM190612-HM	H			●					●	19.05	6.35	1.2	7.93
CNMM190616-HM	H			●					●	19.05	6.35	1.6	7.93

2/2

(10 inserts in one case)

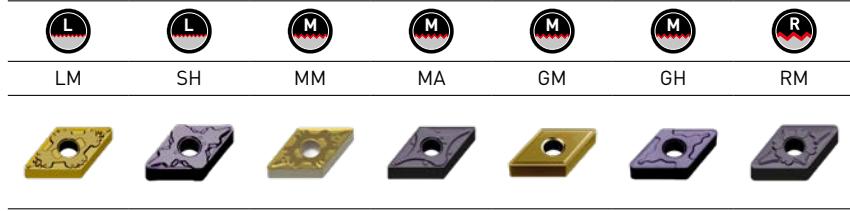
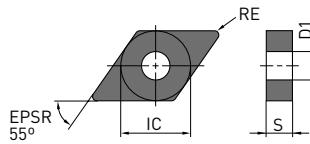


DNMG

NEGATIVE INSERTS (WITH HOLE)

M Class

DNMG



Order number						MC7115	MC7125	MP7135	IC	S	RE	D1
DNMG110404-LM		L		●		●	●	●	9.525	4.76	0.4	3.81
DNMG110408-LM		L		●		●	●	●	9.525	4.76	0.8	3.81
DNMG150404-LM		L		●		●	●	★	12.7	4.76	0.4	5.16
DNMG150408-LM		L		●		●	●	★	12.7	4.76	0.8	5.16
DNMG150412-LM		L		★		★	★	★	12.7	4.76	1.2	5.16
DNMG150604-LM		L		●		●	●	●	12.7	6.35	0.4	5.16
DNMG150608-LM		L		●		●	●	●	12.7	6.35	0.8	5.16
DNMG110404-SH		L						●	9.525	4.76	0.4	3.81
DNMG110408-SH		L						●	9.525	4.76	0.8	3.81
DNMG150404-SH		L						●	12.7	4.76	0.4	5.16
DNMG150408-SH		L						★	12.7	4.76	0.8	5.16
DNMG150408-MM		M		●		●	●	●	12.7	4.76	0.8	5.16
DNMG150412-MM		M					★	★	12.7	4.76	1.2	5.16
DNMG150608-MM		M		●		●	●	●	12.7	6.35	0.8	5.16
DNMG150612-MM		M		★		●	●	●	12.7	6.35	1.2	5.16
DNMG150404-MA		M				●	●	●	12.7	4.76	0.4	5.16
DNMG150408-MA		M				●	●	●	12.7	4.76	0.8	5.16
DNMG150412-MA		M				★	★	★	12.7	4.76	1.2	5.16
DNMG150604-MA		M				●	●	●	12.7	6.35	0.4	5.16
DNMG150608-MA		M				●	●	●	12.7	6.35	0.8	5.16
DNMG150612-MA		M				★	●	●	12.7	6.35	1.2	5.16
DNMG150404-GM		M				●	●	●	12.7	4.76	0.4	5.16
DNMG150408-GM		M				★	★	★	12.7	4.76	0.8	5.16
DNMG150604-GM		M				●	●	★	12.7	6.35	0.4	5.16
DNMG150608-GM		M				●	●	●	12.7	6.35	0.8	5.16
DNMG150408-GH		M						●	12.7	4.76	0.8	5.16
DNMG150608-GH		M						●	12.7	6.35	1.2	5.16
DNMG150612-GH		M						●	12.7	6.35	1.2	5.16
DNMG150408-RM		R		●		●	●	●	12.7	4.76	0.8	5.16
DNMG150412-RM		R				●	●	★	12.7	4.76	1.2	5.16
DNMG150416-RM		R				★	★	★	12.7	4.76	1.6	5.16
DNMG150608-RM		R				●	●	●	12.7	6.35	0.8	5.16
DNMG150612-RM		R				●	●	★	12.7	6.35	1.2	5.16

1/1

(10 inserts in one case)

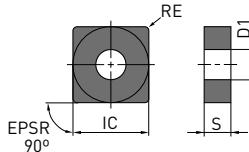
21

SNMG, SNMM

NEGATIVE INSERTS (WITH HOLE)

M Class

SNMG, SNMM



Order number		MC7115	MC7125	MP7135	IC	S	RE	D1
	F L M R H							
SNMG120404-LM	L	●	★	★	12.7	4.76	0.4	5.16
SNMG120408-LM	L	●	●	★	12.7	4.76	0.8	5.16
SNMG120408-MM	M	●	●	●	12.7	4.76	0.8	5.16
SNMG120412-MM	M	●	●	●	12.7	4.76	1.2	5.16
SNMG120416-MM	M	★	★	★	12.7	4.76	1.6	5.16
SNMG150608-MM	M		●	★	15.875	6.35	0.8	6.35
SNMG150612-MM	M	●	●	★	15.875	6.35	1.2	6.35
SNMG150616-MM	M		★		15.875	6.35	1.6	6.35
SNMG190612-MM	M		●	●	19.05	6.35	1.2	7.93
SNMG190616-MM	M		●	●	19.05	6.35	1.6	7.93
SNMG120404-MA	M		●	★	12.7	4.76	0.4	5.16
SNMG120408-MA	M		●	●	12.7	4.76	0.8	5.16
SNMG120412-MA	M		★	●	12.7	4.76	1.2	5.16
SNMG150608-MA	M		●	●	15.875	6.35	0.8	6.35
SNMG150612-MA	M		●	●	15.875	6.35	1.2	6.35
SNMG190616-MA	M		●	●	19.05	6.35	1.6	7.93
SNMG120404-GM	M		●	★	12.7	4.76	0.4	5.16
SNMG120408-GM	M		●	●	12.7	4.76	0.8	5.16
SNMG120412-GM	M		★	●	12.7	4.76	1.2	5.16
SNMG120408-GH	M			●	12.7	4.76	0.8	5.16
SNMG120412-GH	M			★	12.7	4.76	1.2	5.16
SNMG120416-GH	M			●	12.7	4.76	1.6	5.16
SNMG190612-GH	M			●	19.05	6.35	1.2	7.93
SNMG190616-GH	M			●	19.05	6.35	1.6	7.93
SNMG120408-RM	R	★	●	●	12.7	4.76	0.8	5.16
SNMG120412-RM	R	★	●	●	12.7	4.76	1.2	5.16
SNMG120416-RM	R	★	★	●	12.7	4.76	1.6	5.16
SNMG150612-RM	R	●	★	●	15.875	6.35	1.2	6.35
SNMG150616-RM	R	●			15.875	6.35	1.6	6.35
SNMG190612-RM	R	★	●	★	19.05	6.35	1.2	7.93
SNMG190616-RM	R	●	●	●	19.05	6.35	1.6	7.93
SNMM190612-HL	H		★		19.05	6.35	1.2	7.93
SNMM190616-HL	H		★		19.05	6.35	1.6	7.93
SNMM190612-HM	H		●		19.05	6.35	1.2	7.93
SNMM190616-HM	H		●		19.05	6.35	1.6	7.93
SNMM250732-HM	H		●		25.4	7.94	3.2	9.12

1/1

(10 inserts in one case)

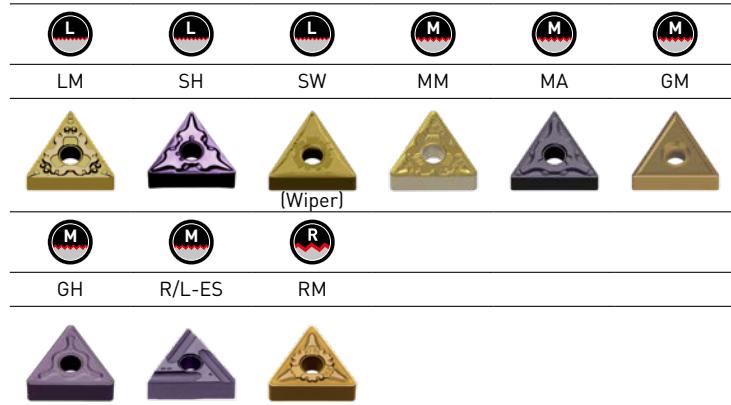
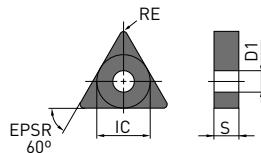
21 Vc

TNMG, TNMX

NEGATIVE INSERTS (WITH HOLE)

M Class

TNMG, TNMX



Order number	F	L	M	MC7115	MC7125	MP7135	IC	S	RE	D1
	R	H								
TNMG160404-LM		L	●	●	●	●	9.525	4.76	0.4	3.81
TNMG160408-LM		L	★	●	●	●	9.525	4.76	0.8	3.81
TNMG160412-LM		L	★	★	★	★	9.525	4.76	1.2	3.81
TNMG160404-SH		L				●	9.525	4.76	0.4	3.81
TNMG160408-SH		L				●	9.525	4.76	0.8	3.81
TNMX160408-SW		L			★		9.525	4.76	0.8	3.81
TNMG160408-MM		M	●	●	●	●	9.525	4.76	0.8	3.81
TNMG160412-MM		M	★	★	★	★	9.525	4.76	1.2	3.81
TNMG220408-MM		M	★	●	●	★	12.7	4.76	0.8	5.16
TNMG220412-MM		M		★	★	★	12.7	4.76	1.2	5.16
TNMG220416-MM		M		●	●	●	12.7	4.76	1.6	5.16
TNMG160404-MA		M		●	●	●	9.525	4.76	0.4	3.81
TNMG160408-MA		M		●	●	●	9.525	4.76	0.8	3.81
TNMG160412-MA		M		★	●	●	9.525	4.76	1.2	3.81
TNMG220408-MA		M		●	●	●	12.7	4.76	0.8	5.16
TNMG220412-MA		M		★	●	●	12.7	4.76	1.2	5.16
TNMG160404-GM		M		●	●	●	9.525	4.76	0.4	3.81
TNMG160408-GM		M		●	●	●	9.525	4.76	0.8	3.81
TNMG160412-GM		M		●	●	★	9.525	4.76	1.2	3.81
TNMG220408-GM		M		★	★	★	12.7	4.76	0.8	5.16
TNMG160408-GH		M				●	9.525	4.76	0.8	3.81
TNMG220408-GH		M				●	12.7	4.76	0.8	5.16
TNMG220412-GH		M				●	12.7	4.76	1.2	5.16
TNMG160404R-ES		M		●	●	●	9.525	4.76	0.4	3.81
TNMG160404L-ES		M		●	●	●	9.525	4.76	0.8	3.81
TNMG160408R-ES		M		●	●	●	9.525	4.76	0.8	3.81
TNMG160408L-ES		M		●	●	●	9.525	4.76	0.8	3.81
TNMG220408R-ES		M			●	●	12.7	4.76	0.8	5.16
TNMG220408L-ES		M			●	●	12.7	4.76	0.8	5.16
TNMG160408-RM		R	★	●	●	★	9.525	4.76	0.8	3.81
TNMG160412-RM		R	★	★	●	●	9.525	4.76	1.2	3.81
TNMG220408-RM		R		●	●	★	12.7	4.76	0.8	5.16
TNMG220412-RM		R		★	●	★	12.7	4.76	1.2	5.16
TNMG220416-RM		R		●	●	★	12.7	4.76	1.6	5.16

1/1

(10 inserts in one case)

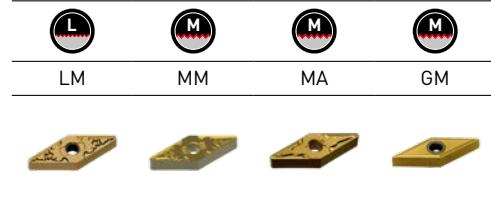
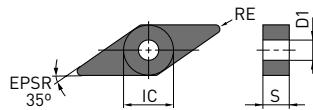
21 Vc

VNMG

NEGATIVE INSERTS (WITH HOLE)

M Class

VNMG



Order number		MC7115	MC7125	MP7135	IC	S	RE	D1
VNMG160404-LM	L	●	●	●	9.525	4.76	0.4	3.81
VNMG160408-LM	L	★	●	★	9.525	4.76	0.8	3.81
VNMG160408-MM	M	●	●	●	9.525	4.76	0.8	3.81
VNMG160404-MA	M		●	●	9.525	4.76	0.4	3.81
VNMG160408-MA	M		●	●	9.525	4.76	0.8	3.81
VNMG160404-GM	M		●	★	9.525	4.76	0.4	3.81
VNMG160408-GM	M		●	●	9.525	4.76	0.8	3.81

1/1

(10 inserts in one case)

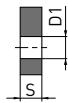
21

WNMG

NEGATIVE INSERTS (WITH HOLE)

M Class

WNMG



Order number



MC7115

MC7125

MP7135

IC

S

RE

D1

WNMG060404-LM	L	●	●	●	9.525	4.76	0.4	3.81
WNMG060408-LM	L	●	●	★	9.525	4.76	0.8	3.81
WNMG080404-LM	L	●	●	●	12.7	4.76	0.4	5.16
WNMG080408-LM	L	●	●	●	12.7	4.76	0.8	5.16
WNMG06T304-SH	L			●	9.525	3.97	0.4	3.81
WNMG06T308-SH	L			●	9.525	3.97	0.8	3.81
WNMG060404-SH	L			●	9.525	4.76	0.4	3.81
WNMG060408-SH	L			●	9.525	4.76	0.8	3.81
WNMG080404-SH	L			●	12.7	4.76	0.4	5.16
WNMG080408-SH	L			●	12.7	4.76	0.8	5.16
WNMG060408-MM	M	★	●	●	9.525	4.76	0.8	3.81
WNMG060412-MM	M		●	●	9.525	4.76	1.2	3.81
WNMG080408-MM	M	●	●	●	12.7	4.76	0.8	5.16
WNMG080412-MM	M	●	●	●	12.7	4.76	1.2	5.16
WNMG06T304-MA	M		●	●	9.525	3.97	0.4	3.81
WNMG06T308-MA	M		●	●	9.525	3.97	0.8	3.81
WNMG06T312-MA	M	★	★	●	9.525	3.97	1.2	3.81
WNMG060408-MA	M		●	●	9.525	4.76	0.8	3.81
WNMG060412-MA	M	★	●	●	9.525	4.76	1.2	3.81
WNMG080404-MA	M		●	●	12.7	4.76	0.4	5.16
WNMG080408-MA	M		●	●	12.7	4.76	0.8	5.16
WNMG080412-MA	M		●	●	12.7	4.76	1.2	5.16
WNMG060404-GM	M		●	●	9.525	4.76	0.4	3.81
WNMG060408-GM	M		●	●	9.525	4.76	0.8	3.81
WNMG080404-GM	M		●	●	12.7	4.76	0.4	5.16
WNMG080408-GM	M		●	●	12.7	4.76	0.8	5.16
WNMG080412-GM	M		●	●	12.7	4.76	1.2	5.16
WNMG080408-GH	M			●	12.7	4.76	0.8	5.16
WNMG080412-GH	M			●	12.7	4.76	1.2	5.16
WNMG060408-RM	R	●	★	★	9.525	4.76	0.8	3.81
WNMG060412-RM	R		★	●	9.525	4.76	1.2	3.81
WNMG080408-RM	R	●	●	●	12.7	4.76	0.8	5.16
WNMG080412-RM	R	●	●	●	12.7	4.76	1.2	5.16

1/1

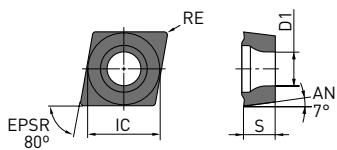
(10 inserts in one case)

CCMT, CCMH, CPMH

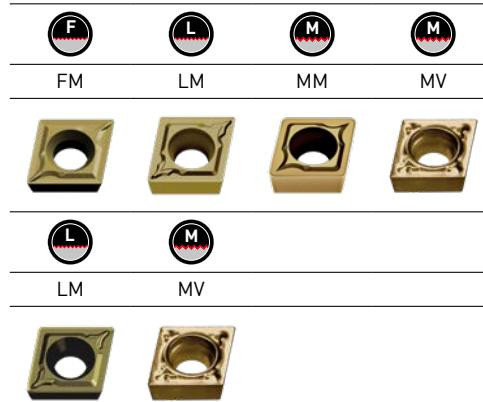
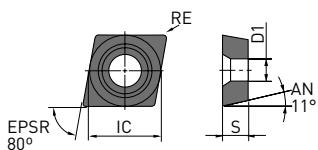
7°, 11° POSITIVE INSERTS (WITH HOLE)

M Class

CCMT, CCMH



CPMH



Order number	F R	L H	M	MC7115	MC7125	MP7135	IC	S	RE	D1
CCMT060202-FM	F				★		6.35	2.38	0.2	2.8
CCMT060204-FM	F	★		★	★	★	6.35	2.38	0.4	2.8
CCMT09T302-FM	F				★		9.525	3.97	0.2	4.4
CCMT09T304-FM	F	★		★	★	★	9.525	3.97	0.4	4.4
CCMT09T308-FM	F	★		★	★	★	9.525	3.97	0.8	4.4
CCMT060204-LM	L	●		●	●	●	6.35	2.38	0.4	2.8
CCMT060208-LM	L	●		●	●	★	6.35	2.38	0.8	2.8
CCMT09T304-LM	L	●		●	●	●	9.525	3.97	0.4	4.4
CCMT09T308-LM	L	●		●	●	●	9.525	3.97	0.8	4.4
CCMT060202-MM	M			●	●	●	6.35	2.38	0.2	2.8
CCMT060204-MM	M	●		●	●	●	6.35	2.38	0.4	2.8
CCMT060208-MM	M	●		●	●	●	6.35	2.38	0.8	2.8
CCMT09T302-MM	M			●	●	●	9.525	3.97	0.2	4.4
CCMT09T304-MM	M	●		●	●	●	9.525	3.97	0.4	4.4
CCMT09T308-MM	M	●		●	●	●	9.525	3.97	0.8	4.4
CCMT120404-MM	M	●		●	●	●	12.7	4.76	0.4	5.5
CCMT120408-MM	M	●		●	●	●	12.7	4.76	0.8	5.5
CCMT120412-MM	M	●		●	●	★	12.7	4.76	1.2	5.5
CCMH060202-MV	M			●	●	●	6.35	2.38	0.2	2.8
CCMH060204-MV	M			●	●	●	6.35	2.38	0.4	2.8
CPMH080204-LM	L	●		●	●	●	7.94	2.38	0.4	3.5
CPMH080208-LM	L	●		●	●	●	7.94	2.38	0.8	3.5
CPMH090304-LM	L	●		●	●	●	9.525	3.18	0.4	4.4
CPMH090308-LM	L	●		●	●	●	9.525	3.18	0.8	4.4
CPMH080204-MV	M			●	●	●	7.94	2.38	0.4	3.5
CPMH080208-MV	M			●	●	●	7.94	2.38	0.8	3.5
CPMH090304-MV	M			●	●	●	9.525	3.18	0.4	4.4
CPMH090308-MV	M			●	●	●	9.525	3.18	0.8	4.4

1/1

(10 inserts in one case)

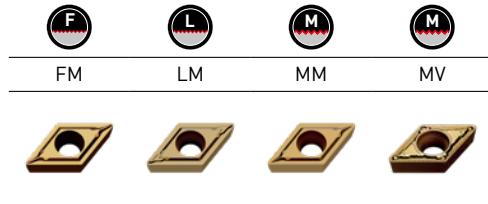
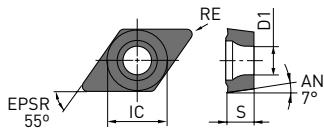
21 Vc

DCMT

7° POSITIVE INSERTS (WITH HOLE)

M Class

DCMT



Order number	F	L	M	MC7115	MC7125	MP7135	IC	S	RE	D1
DCMT070202-FM	F				★		6.35	2.38	0.2	2.8
DCMT070204-FM	F	★			★		6.35	2.38	0.4	2.8
DCMT11T302-FM	F				★		9.525	3.97	0.2	4.4
DCMT11T304-FM	F	★			★	★	9.525	3.97	0.4	4.4
DCMT11T308-FM	F	★			★	★	9.525	3.97	0.8	4.4
DCMT070202-LM	L				★		6.35	2.38	0.2	2.8
DCMT070204-LM	L	●			●	●	6.35	2.38	0.4	2.8
DCMT070208-LM	L	●			●	●	6.35	2.38	0.8	2.8
DCMT11T302-LM	L				★		9.525	3.97	0.2	4.4
DCMT11T304-LM	L	★			●	●	9.525	3.97	0.4	4.4
DCMT11T308-LM	L	●			●	●	9.525	3.97	0.8	4.4
DCMT070202-MM	M				●	●	6.35	2.38	0.2	2.8
DCMT070204-MM	M	●			●	●	6.35	2.38	0.4	2.8
DCMT070208-MM	M	●			●	★	6.35	2.38	0.8	2.8
DCMT11T302-MM	M				●		9.525	3.97	0.2	4.4
DCMT11T304-MM	M	●			●	●	9.525	3.97	0.4	4.4
DCMT11T308-MM	M	●			●	●	9.525	3.97	0.8	4.4
DCMT150404-MM	M	●			●	★	12.7	4.76	0.4	5.5
DCMT150408-MM	M	●			●	●	12.7	4.76	0.8	5.5
DCMT070202-MV	M				●	●	6.35	2.38	0.2	2.8
DCMT070204-MV	M				●	●	6.35	2.38	0.4	2.8
DCMT070208-MV	M				●	●	6.35	2.38	0.8	2.8
DCMT11T302-MV	M				●		9.525	3.97	0.2	4.4
DCMT11T304-MV	M				●	●	9.525	3.97	0.4	4.4
DCMT11T308-MV	M				●	●	9.525	3.97	0.8	4.4

1/1

(10 inserts in one case)

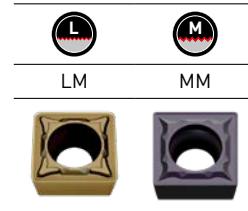
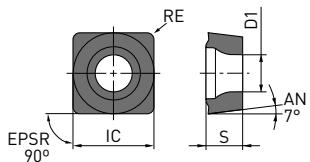
21

SCMT

7° POSITIVE INSERTS (WITH HOLE)

M Class

SCMT



Order number		F	L	M	MC7115	MC7125	MP7135	IC	S	RE	D1
		(F)	(L)	(M)	(R)	(H)					
SCMT09T304-LM	L	●	★	★				9.525	3.97	0.4	4.4
SCMT09T308-LM	L	●	★	★				9.525	3.97	0.8	4.4
SCMT09T304-MM	M	●	●	★				9.525	3.97	0.4	4.4
SCMT09T308-MM	M	●	●	★				9.525	3.97	0.8	4.4
SCMT120404-MM	M	●	●	★				12.7	4.76	0.4	5.5
SCMT120408-MM	M	●	●	●				12.7	4.76	0.8	5.5

1/1

(10 inserts in one case)

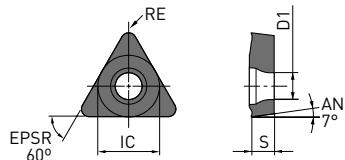
21 

TCMT, TPMH

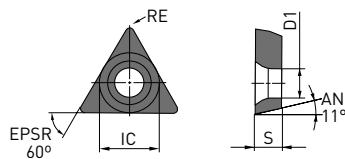
7°, 11° POSITIVE INSERTS (WITH HOLE)

M Class

TCMT



TPMH



Order number	F L M R H	MC7115	MC7125	MP7135	IC	S	RE	D1
TCMT090204-FM	F	★	★	★	5.56	2.38	0.4	2.5
TCMT090204-LM	L		●	★	5.56	2.38	0.4	2.5
TCMT110204-LM	L		●	●	6.35	2.38	0.4	2.8
TCMT110208-LM	L		●	●	6.35	2.38	0.8	2.8
TCMT16T304-LM	L	●	●	★	9.525	3.97	0.4	4.4
TCMT16T308-LM	L	●	●	★	9.525	3.97	0.8	4.4
TCMT090204-MM	M		●	★	5.56	2.38	0.4	2.5
TCMT090208-MM	M			★	5.56	2.38	0.8	2.5
TCMT110204-MM	M		●	●	6.35	2.38	0.4	2.8
TCMT110208-MM	M	★	●	★	6.35	2.38	0.8	2.8
TCMT130304-MM	M			★	7.94	3.18	0.4	3.4
TCMT16T304-MM	M	●	●	●	9.525	3.97	0.4	4.4
TCMT16T308-MM	M	●	●	●	9.525	3.97	0.8	4.4
TCMT16T312-MM	M		●	●	9.525	3.97	1.2	4.4
TPMH090204-LM	L	●	●	●	5.56	2.38	0.4	2.9
TPMH110304-LM	L	●	●	●	6.35	3.18	0.4	3.4
TPMH110308-LM	L	●	●	●	6.35	3.18	0.8	3.4
TPMH160304-LM	L	●	●	●	9.525	3.18	0.4	4.4
TPMH160308-LM	L	●	●	●	9.525	3.18	0.8	4.4
TPMH080202-MV	M	●	●	●	4.76	2.38	0.2	2.4
TPMH080204-MV	M	●	●	●	4.76	2.38	0.4	2.4
TPMH090204-MV	M	●	●	●	5.56	2.38	0.4	2.9
TPMH090208-MV	M	★	★	★	5.56	2.38	0.8	2.9
TPMH110302-MV	M	★	★	★	6.35	3.18	0.2	3.4
TPMH110304-MV	M	●	●	●	6.35	3.18	0.4	3.4
TPMH110308-MV	M	★	●	●	6.35	3.18	0.8	3.4
TPMH160304-MV	M	●	●	●	9.525	3.18	0.4	4.4
TPMH160308-MV	M	●	●	●	9.525	3.18	0.8	4.4

1/1

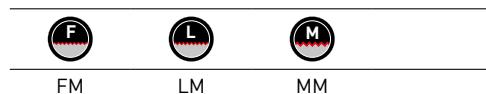
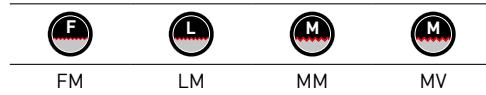
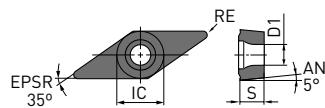
(10 inserts in one case)

VBMT, VCMT

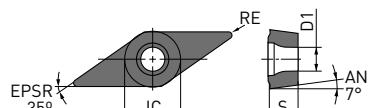
5°, 7° POSITIVE INSERTS (WITH HOLE)

M Class

VBMT



VCMT



Order number



MC7115

MC7125

MP7135

IC

S

RE

D1

VBMT110302-FM	F	★	★	★	6.35	3.18	0.2	2.9
VBMT110304-FM	F	★	★	★	6.35	3.18	0.4	2.9
VBMT110308-FM	F	★	★		6.35	3.18	0.8	2.9
VBMT160404-FM	F	★	★	★	9.525	4.76	0.4	4.4
VBMT160408-FM	F	★	★		9.525	4.76	0.8	4.4
VBMT110304-LM	L	●	●	●	6.35	3.18	0.4	2.9
VBMT110308-LM	L	●	★	★	6.35	3.18	0.8	2.9
VBMT160404-LM	L	●	●	●	9.525	4.76	0.4	4.4
VBMT160408-LM	L	●	●	★	9.525	4.76	0.8	4.4
VBMT160404-MM	M	●	●	●	9.525	4.76	0.4	4.4
VBMT160408-MM	M	●	●	●	9.525	4.76	0.8	4.4
VBMT110304-MV	M		●	●	6.35	3.18	0.4	2.9
VBMT110308-MV	M		★	★	6.35	3.18	0.8	2.9
VBMT160404-MV	M		●	●	9.525	4.76	0.4	4.4
VBMT160408-MV	M		●	●	9.525	4.76	0.8	4.4
VCMT110302-FM	F	★	★	★	6.35	3.18	0.2	2.8
VCMT110304-FM	F	★	★	★	6.35	3.18	0.4	2.8
VCMT160404-FM	F	★	★	★	9.525	4.76	0.4	4.4
VCMT110304-LM	L	●	●	●	6.35	3.18	0.4	2.8
VCMT110308-LM	L	●	●	●	6.35	3.18	0.8	2.8
VCMT160404-LM	L	●	●	●	9.525	4.76	0.4	4.4
VCMT160408-LM	L	●	●	★	9.525	4.76	0.8	4.4
VCMT160404-MM	M	●	●	●	9.525	4.76	0.4	4.4
VCMT160408-MM	M	●	●	●	9.525	4.76	0.8	4.4
VCMT160412-MM	M		★	★	9.525	4.76	1.2	4.4
VCMT080202-MV	M		●	●	4.76	2.38	0.2	2.4
VCMT080204-MV	M		●	●	4.76	2.38	0.4	2.4

1/1

(10 inserts in one case)

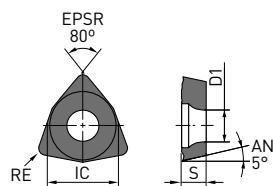
21 Vc

WBMT, WCMT, WPMT

5°, 7°, 11° POSITIVE INSERTS (WITH HOLE)

M Class

WBMT



L-MV



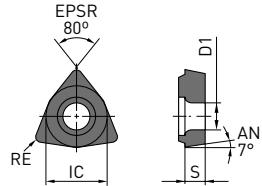
MM



MV

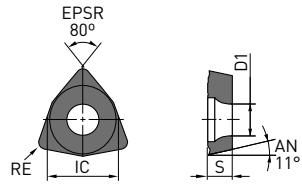


WCMT



MV

WPMT



Order number	F R	L H	M M	MC7115	MC7125	MP7135	IC	S	RE	D1
WBMTL30202L-MV			M	★			4.76	2.38	0.2	2.3
WBMTL30204L-MV			M	★			4.76	2.38	0.4	2.3
WCMT020102-MM			M	●	●		3.97	1.59	0.2	2.3
WCMT020104-MM			M	●	●		3.97	1.59	0.4	2.3
WCMTL30202-MM			M	●	●		4.76	2.38	0.2	2.3
WCMTL30204-MM			M	●	●		4.76	2.38	0.4	2.3
WCMT040202-MM			M	●	●		6.35	2.38	0.2	2.8
WCMT040204-MM			M	●	●		6.35	2.38	0.4	2.8
WCMT06T304-MM			M	●	●		9.525	3.97	0.4	4.4
WCMT06T308-MM			M	●	●		9.525	3.97	0.8	4.4
WPMT040204-MV			M	●	●		6.35	2.38	0.4	2.8
WPMT060304-MV			M	●	●		9.525	3.18	0.4	4.4
WPMT060308-MV			M	●	●		9.525	3.18	0.8	4.4

1/1

(10 inserts in one case)

21 Vc

MC / MP7100 SERIES

RECOMMENDED CUTTING CONDITIONS

NEGATIVE INSERTS (FOR EXTERNAL TURNING)

Material	Hardness	Cutting mode	F L M R H	Priority	Grade	Vc	f	ap
M Austenitic stainless steel	<200 HB		●	L	1 MC7115 LM	185 - 295	0.10 - 0.35	0.3 - 2.0
			●	L	2 MC7125 LM	175 - 240	0.10 - 0.35	0.3 - 2.0
			●	M	1 MC7115 MM	170 - 270	0.15 - 0.45	0.7 - 5.0
			●	R	1 MC7115 RM	160 - 255	0.25 - 0.55	1.5 - 6.0
			●	H	1 MC7125 HL	135 - 185	0.30 - 0.70	3.0 - 7.5
			●	L	1 MC7125 LM	175 - 240	0.10 - 0.35	0.3 - 2.0
			●	M	1 MC7125 MM	160 - 220	0.15 - 0.45	0.7 - 5.0
			●	M	2 MC7125 GM	160 - 220	0.16 - 0.50	0.5 - 4.0
			●	M	3 MC7125 MA	160 - 220	0.20 - 0.50	0.3 - 4.0
			●	M	4 MP7135 GM	120 - 155	0.16 - 0.50	0.5 - 4.0
			●	M	5 MP7135 MM	120 - 155	0.15 - 0.45	0.7 - 5.0
			●	M	6 MP7135 MA	120 - 155	0.20 - 0.50	0.3 - 4.0
			●	R	1 MC7125 RM	150 - 205	0.25 - 0.55	1.5 - 6.0
			●	R	2 MP7135 RM	110 - 145	0.25 - 0.55	1.5 - 6.0
			●	R	3 MP7135 GH	110 - 145	0.25 - 0.60	1.5 - 6.0
			●	H	1 MC7125 HL	135 - 185	0.30 - 0.70	3.0 - 7.5
			●	H	2 MC7125 HM	135 - 185	0.50 - 1.10	2.0 - 10.0
			✗	L	1 MP7135 LM	130 - 170	0.10 - 0.35	0.3 - 2.0
			✗	L	2 MP7135 SH	130 - 170	0.10 - 0.40	0.3 - 2.0
			✗	M	1 MP7135 GM	120 - 155	0.16 - 0.50	0.5 - 4.0
			✗	M	2 MP7135 MM	120 - 155	0.15 - 0.45	0.7 - 5.0
			✗	M	3 MP7135 MA	120 - 155	0.20 - 0.50	0.3 - 4.0
			✗	R	1 MP7135 RM	110 - 145	0.25 - 0.55	1.5 - 6.0
			✗	R	2 MP7135 GH	110 - 145	0.25 - 0.60	1.5 - 6.0
			✗	H	1 MC7125 HL	135 - 185	0.30 - 0.70	3.0 - 7.5
			✗	H	2 MC7125 HM	135 - 185	0.50 - 1.10	2.0 - 10.0
			●	L	1 MC7115 LM	155 - 245	0.10 - 0.35	0.3 - 2.0
			●	L	2 MC7125 LM	145 - 200	0.10 - 0.35	0.3 - 2.0
			●	M	1 MC7115 MM	140 - 225	0.15 - 0.45	0.7 - 5.0
			●	R	1 MC7115 RM	135 - 215	0.25 - 0.55	1.5 - 6.0
			●	H	1 MC7125 HL	110 - 155	0.30 - 0.70	3.0 - 7.5
			●	H	2 MC7125 HM	110 - 155	0.50 - 1.10	2.0 - 10.0
			●	L	1 MC7125 LM	145 - 200	0.10 - 0.35	0.3 - 2.0
			●	M	1 MC7125 MM	130 - 180	0.15 - 0.45	0.7 - 5.0
			●	M	2 MC7125 GM	130 - 180	0.16 - 0.50	0.5 - 4.0
			●	M	3 MC7125 MA	130 - 180	0.20 - 0.50	0.3 - 4.0
			●	M	4 MP7135 GM	100 - 130	0.16 - 0.50	0.5 - 4.0
			●	M	5 MP7135 MM	100 - 130	0.15 - 0.45	0.7 - 5.0
			●	M	6 MP7135 MA	100 - 130	0.20 - 0.50	0.3 - 4.0
			●	R	1 MC7125 RM	125 - 175	0.25 - 0.55	1.5 - 6.0
			●	R	2 MP7135 RM	95 - 120	0.25 - 0.55	1.5 - 6.0
			●	R	3 MP7135 GH	95 - 120	0.25 - 0.60	1.5 - 6.0
			●	H	1 MC7125 HL	110 - 155	0.30 - 0.70	3.0 - 7.5
			●	H	2 MC7125 HM	110 - 155	0.50 - 1.10	2.0 - 10.0
			✗	L	1 MP7135 LM	110 - 140	0.10 - 0.35	0.3 - 2.0
			✗	L	2 MP7135 SH	110 - 140	0.10 - 0.40	0.3 - 2.0
			✗	M	1 MP7135 GM	100 - 130	0.16 - 0.50	0.5 - 4.0
			✗	M	2 MP7135 MM	100 - 130	0.15 - 0.45	0.7 - 5.0
			✗	M	3 MP7135 MA	100 - 130	0.20 - 0.50	0.3 - 4.0
			✗	R	1 MP7135 RM	95 - 120	0.25 - 0.55	1.5 - 6.0
			✗	R	2 MP7135 GH	95 - 120	0.25 - 0.60	1.5 - 6.0
			✗	H	1 MC7125 HL	110 - 155	0.30 - 0.70	3.0 - 7.5
			✗	H	2 MC7125 HM	110 - 155	0.50 - 1.10	2.0 - 10.0

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

MC/MP7100 SERIES – NEGATIVE INSERTS (FOR EXTERNAL TURNING)

Material	Hardness	Cutting mode	Priority	Grade		Vc	f	ap
M Ferritic and martensitic Stainless steel	<200 HB	● L	1	MC7115	LM	185 – 295	0.10 – 0.35	0.3 – 2.0
		● L	2	MC7125	LM	175 – 240	0.10 – 0.35	0.3 – 2.0
		● M	1	MC7115	MM	170 – 270	0.15 – 0.45	0.7 – 5.0
		● R	1	MC7115	RM	160 – 255	0.25 – 0.55	1.5 – 6.0
		● H	1	MC7125	HL	135 – 185	0.30 – 0.70	3.0 – 7.5
		● H	2	MC7125	HM	135 – 185	0.50 – 1.10	2.0 – 10.0
		● L	1	MC7125	LM	175 – 240	0.10 – 0.35	0.3 – 2.0
		● M	1	MC7125	MM	160 – 220	0.15 – 0.45	0.7 – 5.0
		● M	2	MC7125	GM	160 – 220	0.16 – 0.50	0.5 – 4.0
		● M	3	MC7125	MA	160 – 220	0.20 – 0.50	0.3 – 4.0
		● M	4	MP7135	GM	120 – 155	0.16 – 0.50	0.5 – 4.0
		● M	5	MP7135	MM	120 – 155	0.15 – 0.45	0.7 – 5.0
		● M	6	MP7135	MA	120 – 155	0.20 – 0.50	0.3 – 4.0
		● R	1	MC7125	RM	150 – 205	0.25 – 0.55	1.5 – 6.0
		● R	2	MP7135	RM	110 – 145	0.25 – 0.55	1.5 – 6.0
		● R	3	MP7135	GH	110 – 145	0.25 – 0.60	1.5 – 6.0
		● H	1	MC7125	HL	135 – 185	0.30 – 0.70	3.0 – 7.5
		● H	2	MC7125	HM	135 – 185	0.50 – 1.10	2.0 – 10.0
		✗ L	1	MP7135	LM	130 – 170	0.10 – 0.35	0.3 – 2.0
		✗ L	2	MP7135	SH	130 – 170	0.10 – 0.40	0.3 – 2.0
		✗ M	1	MP7135	GM	120 – 155	0.16 – 0.50	0.5 – 4.0
		✗ M	2	MP7135	MM	120 – 155	0.15 – 0.45	0.7 – 5.0
		✗ M	3	MP7135	MA	120 – 155	0.20 – 0.50	0.3 – 4.0
		✗ R	1	MP7135	RM	110 – 145	0.25 – 0.55	1.5 – 6.0
		✗ R	2	MP7135	GH	110 – 145	0.25 – 0.60	1.5 – 6.0
		✗ H	1	MC7125	HL	135 – 185	0.30 – 0.70	3.0 – 7.5
		✗ H	2	MC7125	HM	135 – 185	0.50 – 1.10	2.0 – 10.0
	>200 HB	● L	1	MC7115	LM	155 – 245	0.10 – 0.35	0.3 – 2.0
		● L	2	MC7125	LM	145 – 200	0.10 – 0.35	0.3 – 2.0
		● M	1	MC7115	MM	140 – 225	0.15 – 0.45	0.7 – 5.0
		● R	1	MC7115	RM	135 – 215	0.25 – 0.55	1.5 – 6.0
		● H	1	MC7125	HL	110 – 155	0.30 – 0.70	3.0 – 7.5
		● H	2	MC7125	HM	110 – 155	0.50 – 1.10	2.0 – 10.0
		● L	1	MC7125	LM	145 – 200	0.10 – 0.35	0.3 – 2.0
		● M	1	MC7125	MM	130 – 180	0.15 – 0.45	0.7 – 5.0
		● M	2	MC7125	GM	130 – 180	0.16 – 0.50	0.5 – 4.0
		● M	3	MC7125	MA	130 – 180	0.20 – 0.50	0.3 – 4.0
		● M	4	MP7135	GM	100 – 130	0.16 – 0.50	0.5 – 4.0
		● M	5	MP7135	MM	100 – 130	0.15 – 0.45	0.7 – 5.0
		● M	6	MP7135	MA	100 – 130	0.20 – 0.50	0.3 – 4.0
		● R	1	MC7125	RM	125 – 175	0.25 – 0.55	1.5 – 6.0
		● H	1	MC7125	HL	110 – 155	0.30 – 0.70	3.0 – 7.5
		● H	2	MC7125	HM	110 – 155	0.50 – 1.10	2.0 – 10.0
		✗ L	1	MP7135	LM	110 – 140	0.10 – 0.35	0.3 – 2.0
		✗ L	2	MP7135	SH	110 – 140	0.10 – 0.40	0.3 – 2.0
		✗ M	1	MP7135	GM	100 – 130	0.16 – 0.50	0.5 – 4.0
		✗ M	2	MP7135	MM	100 – 130	0.15 – 0.45	0.7 – 5.0
		✗ M	3	MP7135	MA	100 – 130	0.20 – 0.50	0.3 – 4.0
		✗ R	1	MP7135	RM	95 – 120	0.25 – 0.55	1.5 – 6.0
		✗ R	2	MP7135	GH	95 – 120	0.25 – 0.60	1.5 – 6.0
		✗ H	1	MC7125	HL	110 – 155	0.30 – 0.70	3.0 – 7.5
		✗ H	2	MC7125	HM	110 – 155	0.50 – 1.10	2.0 – 10.0

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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.

MC/MP7100 SERIES – NEGATIVE INSERTS (FOR EXTERNAL TURNING)

Material	Hardness	Cutting mode	Priority	Grade		Vc	f	ap
M Two-phase stainless steel	<280 HB	● L	1	MP7135	LM	85 – 115	0.10 – 0.35	0.3 – 2.0
		● L	2	MP7135	SH	85 – 115	0.10 – 0.40	0.3 – 2.0
		● L	3	MC7125	LM	115 – 160	0.10 – 0.35	0.3 – 2.0
		● L	4	MC7115	LM	125 – 200	0.10 – 0.35	0.3 – 2.0
		● M	1	MP7135	GM	80 – 105	0.16 – 0.50	0.5 – 4.0
		● M	2	MP7135	MM	80 – 105	0.15 – 0.45	0.7 – 5.0
		● M	3	MP7135	MA	80 – 105	0.20 – 0.50	0.3 – 4.0
		● M	4	MC7125	MM	105 – 145	0.15 – 0.45	0.7 – 5.0
		● M	5	MC7125	GM	105 – 145	0.16 – 0.50	0.5 – 4.0
		● M	6	MC7125	MA	105 – 145	0.20 – 0.50	0.3 – 4.0
		● M	7	MC7115	MM	115 – 180	0.15 – 0.45	0.7 – 5.0
		● R	1	MP7135	RM	75 – 100	0.25 – 0.55	1.5 – 6.0
		● R	2	MP7135	GH	75 – 100	0.25 – 0.60	1.5 – 6.0
		● R	3	MC7125	RM	100 – 140	0.25 – 0.55	1.5 – 6.0
		● H	1	MC7125	HL	90 – 125	0.30 – 0.70	3.0 – 7.5
		● H	2	MC7125	HM	90 – 125	0.50 – 1.10	2.0 – 10.0
		● L	1	MP7135	LM	85 – 115	0.10 – 0.35	0.3 – 2.0
		● L	2	MP7135	SH	85 – 115	0.10 – 0.40	0.3 – 2.0
		● L	3	MC7125	LM	115 – 160	0.10 – 0.35	0.3 – 2.0
		● M	1	MP7135	GM	80 – 105	0.16 – 0.50	0.5 – 4.0
		● M	2	MP7135	MM	80 – 105	0.15 – 0.45	0.7 – 5.0
		● M	3	MP7135	MA	80 – 105	0.20 – 0.50	0.3 – 4.0
		● M	4	MC7125	MM	105 – 145	0.15 – 0.45	0.7 – 5.0
		● M	5	MC7125	GM	105 – 145	0.16 – 0.50	0.5 – 4.0
		● M	6	MC7125	MA	105 – 145	0.20 – 0.50	0.3 – 4.0
		● R	1	MP7135	RM	75 – 100	0.25 – 0.55	1.5 – 6.0
		● R	2	MP7135	GH	75 – 100	0.25 – 0.60	1.5 – 6.0
		● R	3	MC7125	RM	100 – 140	0.25 – 0.55	1.5 – 6.0
		● H	1	MC7125	HL	90 – 125	0.30 – 0.70	3.0 – 7.5
		● H	2	MC7125	HM	90 – 125	0.50 – 1.10	2.0 – 10.0
		✗ L	1	MP7135	LM	85 – 115	0.10 – 0.35	0.3 – 2.0
		✗ L	2	MP7135	SH	85 – 115	0.10 – 0.40	0.3 – 2.0
		✗ M	1	MP7135	GM	80 – 105	0.16 – 0.50	0.5 – 4.0
		✗ M	2	MP7135	MM	80 – 105	0.15 – 0.45	0.7 – 5.0
		✗ M	3	MP7135	MA	80 – 105	0.20 – 0.50	0.3 – 4.0
		✗ R	1	MP7135	RM	75 – 100	0.25 – 0.55	1.5 – 6.0
		✗ R	2	MP7135	GH	75 – 100	0.25 – 0.60	1.5 – 6.0
		✗ H	1	MC7125	HL	90 – 125	0.30 – 0.70	3.0 – 7.5
		✗ H	2	MC7125	HM	90 – 125	0.50 – 1.10	2.0 – 10.0

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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.

MC/MP7100 SERIES – NEGATIVE INSERTS (FOR EXTERNAL TURNING)

Material	Hardness	Cutting mode	Priority	Grade		Vc	f	ap
M Precipitation-hardening stainless steel	450 HB	● L	1	MC7115	LM	110 – 165	0.10 – 0.35	0.3 – 2.0
		● L	2	MC7125	LM	95 – 120	0.10 – 0.35	0.3 – 2.0
		● M	1	MC7115	MM	100 – 150	0.15 – 0.45	0.7 – 5.0
		● R	1	MC7115	RM	95 – 140	0.25 – 0.55	1.5 – 6.0
		● H	1	MC7125	HL	75 – 90	0.40 – 1.00	1.5 – 8.0
		● H	2	MC7125	HM	75 – 90	0.50 – 1.10	2.0 – 10.0
		● L	1	MC7125	LM	95 – 120	0.10 – 0.35	0.3 – 2.0
		● L	2	MP7135	LM	70 – 95	0.10 – 0.35	0.3 – 2.0
		● L	3	MP7135	SH	70 – 95	0.10 – 0.40	0.3 – 2.0
		● M	1	MC7125	MM	90 – 110	0.15 – 0.45	0.7 – 5.0
		● M	2	MC7125	GM	90 – 110	0.16 – 0.50	0.5 – 4.0
		● M	3	MC7125	MA	90 – 110	0.10 – 0.30	0.5 – 3.0
		● M	4	MP7135	GM	65 – 90	0.16 – 0.50	0.5 – 4.0
		● M	5	MP7135	MM	65 – 90	0.15 – 0.45	0.7 – 5.0
		● M	6	MP7135	MA	65 – 90	0.10 – 0.30	0.5 – 3.0
		● R	1	MC7125	RM	85 – 100	0.25 – 0.55	1.5 – 6.0
		● R	2	MP7135	RM	60 – 85	0.25 – 0.55	1.5 – 6.0
		● R	3	MP7135	GH	60 – 85	0.25 – 0.60	1.5 – 6.0
		● H	1	MC7125	HL	75 – 90	0.40 – 1.00	1.5 – 8.0
		● H	2	MC7125	HM	75 – 90	0.50 – 1.00	2.0 – 10.0
		✗ L	1	MP7135	LM	70 – 95	0.10 – 0.35	0.3 – 2.0
		✗ L	2	MP7135	SH	70 – 95	0.10 – 0.40	0.3 – 2.0
		✗ M	1	MP7135	MM	65 – 90	0.15 – 0.45	0.7 – 5.0
		✗ R	1	MP7135	RM	60 – 85	0.25 – 0.55	1.5 – 6.0
		✗ R	2	MP7135	GH	60 – 85	0.25 – 0.60	1.5 – 6.0
		✗ H	1	MC7125	HL	75 – 90	0.40 – 1.00	1.5 – 8.0
		✗ H	2	MC7125	HM	75 – 90	0.50 – 1.10	2.0 – 10.0

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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.

MC/MP7100 SERIES - 7° POSITIVE INSERTS (FOR EXTERNAL TURNING)

Material	Hardness	Cutting mode	Priority	Grade		Vc	f	ap
Austenitic stainless steel	<200 HB	● F	1	MC7115	FM	160 – 255	0.04 – 0.20	0.2 – 0.9
		● F	2	MC7125	FM	150 – 210	0.04 – 0.20	0.2 – 0.9
		● L	1	MC7125	LM	150 – 210	0.06 – 0.25	0.2 – 1.0
		● L	2	MC7115	LM	160 – 255	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	125 – 175	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7125	MV	125 – 175	0.08 – 0.30	0.3 – 2.0
		● M	3	MC7115	MM	135 – 215	0.08 – 0.30	0.3 – 2.0
		● F	1	MC7125	FM	150 – 210	0.04 – 0.20	0.2 – 0.9
		● L	1	MC7125	LM	150 – 210	0.06 – 0.25	0.2 – 1.0
		● L	2	MP7135	LM	115 – 145	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	125 – 175	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7125	MV	125 – 175	0.08 – 0.30	0.3 – 2.0
		✖ F	1	MP7135	FM	115 – 145	0.04 – 0.20	0.2 – 0.9
		✖ L	1	MP7135	LM	115 – 145	0.06 – 0.25	0.2 – 1.0
		✖ M	1	MP7135	MM	95 – 120	0.08 – 0.30	0.3 – 2.0
		✖ M	2	MP7135	MV	95 – 120	0.08 – 0.30	0.3 – 2.0
	200 HB	● F	1	MC7115	FM	135 – 215	0.04 – 0.20	0.2 – 0.9
		● F	2	MC7125	FM	125 – 175	0.04 – 0.20	0.2 – 0.9
		● L	1	MC7125	LM	125 – 175	0.06 – 0.25	0.2 – 1.0
		● L	2	MC7115	LM	135 – 215	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	105 – 145	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7125	MV	105 – 145	0.08 – 0.30	0.3 – 2.0
		● M	3	MC7115	MM	110 – 180	0.08 – 0.30	0.3 – 2.0
		● F	1	MC7125	FM	125 – 175	0.04 – 0.20	0.2 – 0.9
		● L	1	MC7125	LM	125 – 175	0.06 – 0.25	0.2 – 1.0
		● L	2	MP7135	LM	95 – 120	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	105 – 145	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7125	MV	105 – 145	0.08 – 0.30	0.3 – 2.0
		✖ F	1	MP7135	FM	95 – 120	0.04 – 0.20	0.2 – 0.9
		✖ L	1	MP7135	LM	95 – 120	0.06 – 0.25	0.2 – 1.0
		✖ M	1	MP7135	MM	80 – 100	0.08 – 0.30	0.3 – 2.0
		✖ M	2	MP7135	MV	80 – 100	0.08 – 0.30	0.3 – 2.0
Ferritic and martensitic stainless steel	<200 HB	● F	1	MC7125	FM	150 – 210	0.04 – 0.20	0.2 – 0.9
		● L	1	MC7125	LM	150 – 210	0.06 – 0.25	0.2 – 1.0
		● L	2	MC7115	LM	160 – 255	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	125 – 175	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7125	MV	125 – 175	0.08 – 0.30	0.3 – 2.0
		● M	3	MC7115	MM	135 – 215	0.08 – 0.30	0.3 – 2.0
		● F	1	MC7125	FM	150 – 210	0.04 – 0.20	0.2 – 0.9
		● L	1	MC7125	LM	150 – 210	0.06 – 0.25	0.2 – 1.0
		● L	2	MP7135	LM	115 – 145	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	125 – 175	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7125	MV	125 – 175	0.08 – 0.30	0.3 – 2.0
		✖ F	1	MP7135	FM	115 – 145	0.04 – 0.20	0.2 – 0.9
		✖ L	1	MP7135	LM	115 – 145	0.06 – 0.25	0.2 – 1.0
		✖ M	1	MP7135	MM	95 – 120	0.08 – 0.30	0.3 – 2.0
		✖ M	2	MP7135	MV	95 – 120	0.08 – 0.30	0.3 – 2.0

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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.

MC/MP7100 SERIES – 7° POSITIVE INSERTS (FOR EXTERNAL TURNING)

Material	Hardness	Cutting mode	Priority	Grade		Vc	f	ap
Ferritic and martensitic stainless steel	>200 HB	● F	1	MC7125	FM	125 – 175	0.04 – 0.20	0.2 – 0.9
		● F	2	MC7115	FM	135 – 215	0.04 – 0.20	0.2 – 0.9
		● L	1	MC7125	LM	125 – 175	0.06 – 0.25	0.2 – 1.0
		● L	2	MC7115	LM	135 – 215	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	105 – 145	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7125	MV	105 – 145	0.08 – 0.30	0.3 – 2.0
		● M	3	MC7115	MM	110 – 180	0.08 – 0.30	0.3 – 2.0
		● F	1	MC7125	FM	125 – 175	0.04 – 0.20	0.2 – 0.9
		● L	1	MC7125	LM	125 – 175	0.06 – 0.25	0.2 – 1.0
		● L	2	MP7135	LM	95 – 120	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	105 – 145	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7125	MV	105 – 145	0.08 – 0.30	0.3 – 2.0
		✗ F	1	MP7135	FM	95 – 120	0.04 – 0.20	0.2 – 0.9
		✗ L	1	MP7135	LM	95 – 120	0.06 – 0.25	0.2 – 1.0
		✗ M	1	MP7135	MM	80 – 100	0.08 – 0.30	0.3 – 2.0
		✗ M	2	MP7135	MV	80 – 100	0.08 – 0.30	0.3 – 2.0
		● F	1	MP7135	FM	75 – 100	0.04 – 0.20	0.2 – 0.9
		● L	1	MP7135	LM	75 – 100	0.06 – 0.25	0.2 – 1.0
M Two-phase stainless steel	<280 HB	● L	2	MC7125	LM	100 – 140	0.06 – 0.25	0.2 – 1.0
		● L	3	MC7115	LM	110 – 175	0.06 – 0.25	0.2 – 1.0
		● M	1	MP7135	MM	65 – 80	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7125	MM	85 – 115	0.08 – 0.30	0.3 – 2.0
		● M	3	MC7125	MV	85 – 115	0.08 – 0.30	0.3 – 2.0
		● M	4	MC7115	MM	90 – 145	0.08 – 0.30	0.3 – 2.0
		● F	1	MC7125	FM	100 – 140	0.04 – 0.20	0.2 – 0.9
		● L	1	MC7125	LM	100 – 140	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	85 – 115	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7125	MV	85 – 115	0.08 – 0.30	0.3 – 2.0
		✗ F	1	MP7135	FM	75 – 100	0.04 – 0.20	0.2 – 0.9
		✗ L	1	MP7135	LM	75 – 100	0.06 – 0.25	0.2 – 1.0
		✗ M	1	MP7135	MM	65 – 80	0.08 – 0.30	0.3 – 2.0
		✗ M	2	MP7135	MV	65 – 80	0.08 – 0.30	0.3 – 2.0
		● F	1	MC7115	FM	95 – 140	0.04 – 0.20	0.2 – 0.9
		● L	1	MC7115	LM	95 – 140	0.06 – 0.20	0.2 – 1.0
Precipitation-hardening stainless steel	450 HB	● L	2	MC7125	LM	85 – 105	0.06 – 0.20	0.2 – 1.0
		● M	1	MC7115	MM	80 – 120	0.08 – 0.25	0.3 – 2.0
		● M	2	MC7125	MM	70 – 85	0.08 – 0.25	0.3 – 2.0
		● F	1	MC7125	FM	85 – 105	0.04 – 0.20	0.2 – 0.9
		● F	2	MP7135	FM	60 – 85	0.04 – 0.20	0.2 – 0.9
		● L	1	MC7125	LM	85 – 105	0.06 – 0.20	0.2 – 1.0
		● L	2	MP7135	LM	60 – 85	0.06 – 0.20	0.2 – 1.0
		● M	1	MC7125	MM	70 – 85	0.08 – 0.25	0.3 – 2.0
		● M	2	MC7125	MV	70 – 85	0.08 – 0.30	0.3 – 2.0
		● M	3	MP7135	MM	50 – 70	0.08 – 0.25	0.3 – 2.0
		✗ F	1	MP7135	FM	60 – 85	0.04 – 0.20	0.2 – 0.9
		✗ L	1	MP7135	LM	60 – 85	0.06 – 0.20	0.2 – 1.0
		✗ M	1	MP7135	MM	50 – 70	0.08 – 0.25	0.3 – 2.0
		✗ M	2	MP7135	MV	50 – 70	0.08 – 0.30	0.3 – 2.0

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- 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.

MC/MP7100 SERIES – 11° POSITIVE INSERTS (FOR EXTERNAL TURNING)

Material	Hardness	Cutting mode	Priority	Grade		Vc	f	ap
Austenitic stainless steel	<200 HB	● L	1	MC7125	LM	150 – 210	0.06 – 0.25	0.2 – 1.0
		● L	2	MC7115	LM	160 – 255	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	125 – 175	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7115	MM	135 – 215	0.08 – 0.30	0.3 – 2.0
		● L	1	MC7125	LM	150 – 210	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	125 – 175	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7125	MV	125 – 175	0.08 – 0.30	0.3 – 2.0
		✖ L	1	MP7135	LM	115 – 145	0.06 – 0.25	0.2 – 1.0
		✖ M	1	MP7135	MM	95 – 120	0.08 – 0.30	0.3 – 2.0
		✖ M	2	MP7135	MV	95 – 120	0.08 – 0.30	0.3 – 2.0
	200 HB	● L	1	MC7125	LM	125 – 175	0.06 – 0.25	0.2 – 1.0
		● L	2	MC7115	LM	135 – 215	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	105 – 145	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7125	MV	105 – 145	0.08 – 0.30	0.3 – 2.0
		● M	3	MC7115	MM	110 – 180	0.08 – 0.30	0.3 – 2.0
Ferritic and martensitic stainless steel	<200 HB	● L	1	MC7125	LM	125 – 175	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	105 – 145	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7125	MV	105 – 145	0.08 – 0.30	0.3 – 2.0
		✖ L	1	MP7135	LM	95 – 120	0.06 – 0.25	0.2 – 1.0
		✖ M	1	MP7135	MM	80 – 100	0.08 – 0.30	0.3 – 2.0
		✖ M	2	MP7135	MV	80 – 100	0.08 – 0.30	0.3 – 2.0
		● L	1	MC7125	LM	150 – 210	0.06 – 0.25	0.2 – 1.0
		● L	2	MC7115	LM	160 – 255	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	125 – 175	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7125	MV	125 – 175	0.08 – 0.30	0.3 – 2.0
	>200 HB	● M	3	MC7115	MM	135 – 215	0.08 – 0.30	0.3 – 2.0
		● L	1	MC7125	LM	150 – 210	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	125 – 175	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7125	MV	125 – 175	0.08 – 0.30	0.3 – 2.0
		● M	3	MC7115	MM	110 – 180	0.08 – 0.30	0.3 – 2.0
		● L	1	MC7125	LM	125 – 175	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	105 – 145	0.08 – 0.30	0.3 – 2.0
		✖ L	1	MP7135	LM	95 – 120	0.06 – 0.25	0.2 – 1.0
		✖ M	1	MP7135	MM	80 – 100	0.08 – 0.30	0.3 – 2.0
		✖ M	2	MP7135	MV	80 – 100	0.08 – 0.30	0.3 – 2.0

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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.

MC/MP7100 SERIES – 11° POSITIVE INSERTS (FOR EXTERNAL TURNING)

Material	Hardness	Cutting mode	Priority	Grade		Vc	f	ap
Two-phase stainless steel	<280 HB	● L	1	MC7125	LM	100 – 140	0.06 – 0.25	0.2 – 1.0
		● L	2	MC7115	LM	110 – 175	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	85 – 115	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7125	MV	85 – 115	0.08 – 0.30	0.3 – 2.0
		● M	3	MC7115	MM	90 – 145	0.08 – 0.30	0.3 – 2.0
		● L	1	MP7135	LM	75 – 100	0.06 – 0.25	0.2 – 1.0
		● L	2	MC7125	LM	100 – 140	0.06 – 0.25	0.2 – 1.0
		● M	1	MC7125	MM	85 – 115	0.08 – 0.30	0.3 – 2.0
		● M	2	MC7125	MV	85 – 115	0.08 – 0.30	0.3 – 2.0
		● L	1	MP7135	LM	75 – 100	0.06 – 0.25	0.2 – 1.0
Precipitation-hardening stainless steel	450 HB	● M	1	MP7135	MM	65 – 80	0.08 – 0.30	0.3 – 2.0
		● M	2	MP7135	MV	65 – 80	0.08 – 0.30	0.3 – 2.0
		● L	1	MC7125	LM	85 – 105	0.06 – 0.20	0.2 – 1.0
		● L	2	MC7115	LM	95 – 140	0.06 – 0.20	0.2 – 1.0
		● M	1	MC7125	MM	70 – 85	0.08 – 0.25	0.3 – 2.0
		● M	2	MC7125	MV	70 – 85	0.08 – 0.30	0.3 – 2.0
		● L	1	MC7125	LM	85 – 105	0.06 – 0.20	0.2 – 1.0
		● M	1	MC7125	MM	70 – 85	0.08 – 0.25	0.3 – 2.0
		● M	2	MC7125	MV	70 – 85	0.08 – 0.30	0.3 – 2.0
		● L	1	MP7135	LM	60 – 85	0.06 – 0.20	0.2 – 1.0
		● M	1	MC7125	MM	70 – 85	0.08 – 0.25	0.3 – 2.0
		● M	2	MC7125	MV	70 – 85	0.08 – 0.30	0.3 – 2.0

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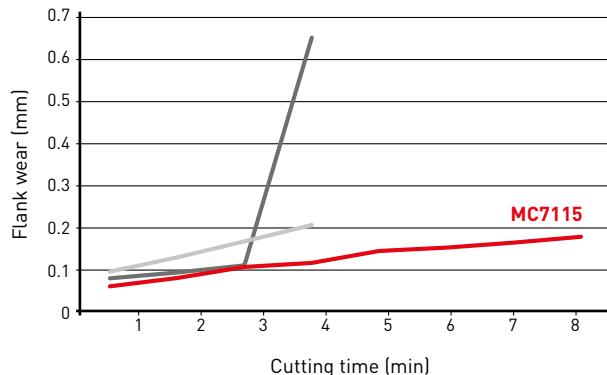
1. Recommended cutting conditions for 5° / 7° / 11° positive inserts are provided as a guideline only.
Verify the recommended conditions for each boring bar as cutting conditions for internal machining will vary depending on the length of overhang.

MC/MP7100

APPLICATION EXAMPLES

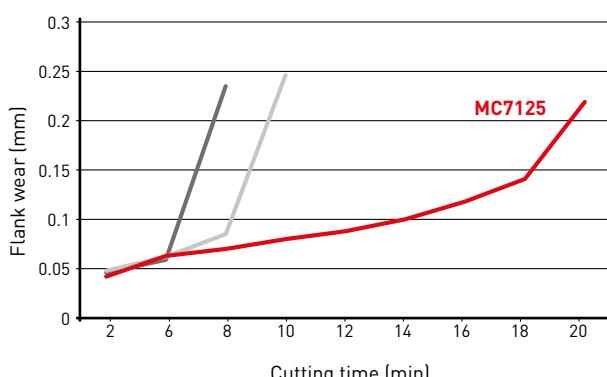
MC7115: COMPARISON OF WEAR RESISTANCE DURING WET CUTTING

Tool	CNMG120408-OO
Material	DIN X5CrNi189
Vc (m/min)	250
f (mm/rev)	0.30
ap (mm)	1.5
Cutting mode	Wet cutting
Results	Tool life doubled



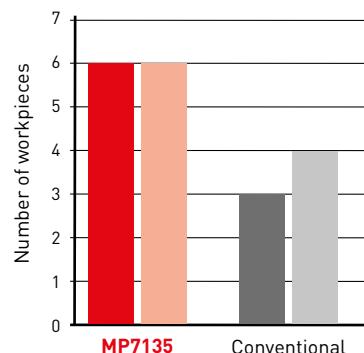
MC7125: COMPARISON OF WEAR RESISTANCE DURING WET CUTTING

Tool	CNMG120408-OO
Material	DIN X2CrNiMo1812
Vc (m/min)	250
f (mm/rev)	0.30
ap (mm)	1.5
Cutting mode	Wet cutting
Results	Tool life doubled



MP7135: INTERMITTENT CUTTING COMPARISON

Tool	CNMG120408-OO
Material	DIN X5CrNi189
Vc (m/min)	120
f (mm/rev)	0.25
ap (mm)	2.0 x 2 pass
Cutting mode	Wet cutting
Results	Almost double tool life



■ : MC/MP7100 ■ A ■ B : Conventional tool

The examples shown are customer's applications, therefore can differ from the recommended conditions.

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