

PCD Grade for Non-Ferrous Metals Turning

MD220 VCGW Type



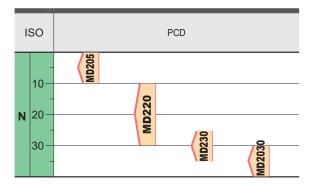
Suitable for Cutting Aluminum Alloys and Non-ferrous Metal Components on Small Automatic Lathes

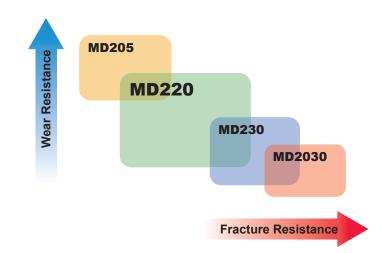
Proficient in various machining applications such as external turning and internal boring, because of the strong, tough edge and the availability to utilize both edge hands.

For General Machining MD220

Sintered medium grain diamond particles. Wear resistance and fracture resistance are superbly balanced. Applicable to general finishing of non-ferrous metals, non-metal cutting, and similar machining.

Aluminum Alloy





Suitable for cutting materials such as nonferrous metals and fiber reinforced plastics (FRP) including aluminum alloys. It supports ultra high speed finish cutting.



Positive Inserts (With Hole)

G Class Flat Top



VCGW





(inch) Cutting Order Number **MD220** IC S RE D1 LE Edges

VCGW220.2 .250 .125 .004 .110 .122 VCGW220.5 • .250 .125 .008 .110 .118 **VCGW221** 1 .250 .125 .016 .110 .102

USA Stock (1 insert in one case)

Recommended Cutting Conditions

(inch)

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Work Material	Cutting Speed vc (SFM)	Feed f (IPM)	Depth of Cut ap
Aluminium Alloy (Si ≤ 12%)	2625 (655—3935)	008	039
Aluminium Alloy (Si ≥13%)	1970 (655—3280)	008	039
Copper Alloy	2295 (655—3935)	008	039
Strengthened Plastic	1970 (330—3280)	016	039
Glass Fibre Reinforced Plastic	1640 (330—2625)	010	039
Carbon	1310 (330—1970)	012	039
Ceramics	165 (100—260)	004	039
Hard Rubber	1970 (985—2625)	006	039
Wood Inorganic Board	4265 (985—13120)	016	_
Cemented Carbide	50 (15-65)	008	020

For your safety

Don't touch breakers and chips without gloves. Please machine within recommended application range, and exchange expired tools with new parts in advance. Please use safety cover and wear safety glasses. When using compounded cutting oils, please take fire prevention. When attaching inserts or spare parts, please use the attached wrench or driver. When using tools in revolution machining, please make a trial run to check run-out, vibration, abnormal sounds etc.



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