

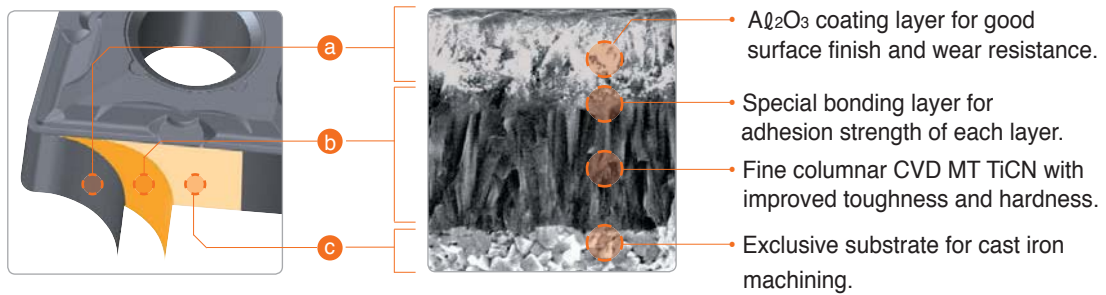
NC6205 NC6210

- K-power coating
- NC6205 ▶ Superior cutting performance in continuous and high speed machining.
- NC6210 ▶ Stable tool life in continuous and interrupted Turning.

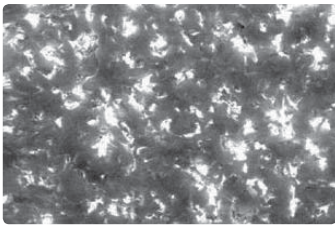


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Features

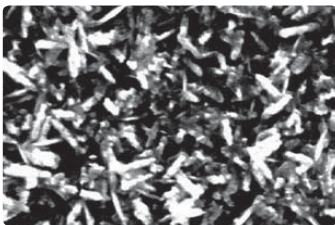


• K-black power coating



• Outermost layer

- Al_2O_3 layer with superior lubrication guarantees wear resistance and chipping resistance in high speed machining.



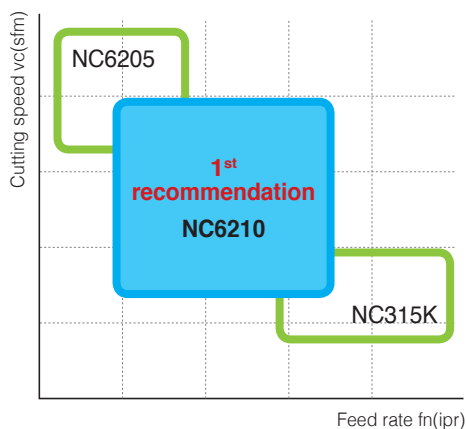
• Bonding layer (between MT-TiCN and Al_2O_3 layer)

- Special bonding layer with superb adhesion strength improves flaking resistance and chipping resistance.

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Line-up of grades



• NC6205

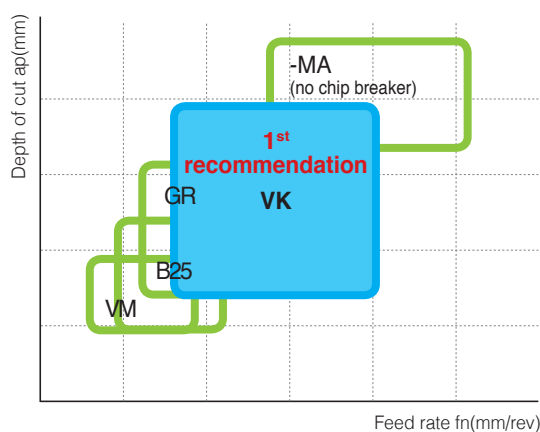
- K-power coating on a high hardness substrate. Superior performance in continuous and high speed machining of grey cast iron and ductile cast iron.

• NC6210

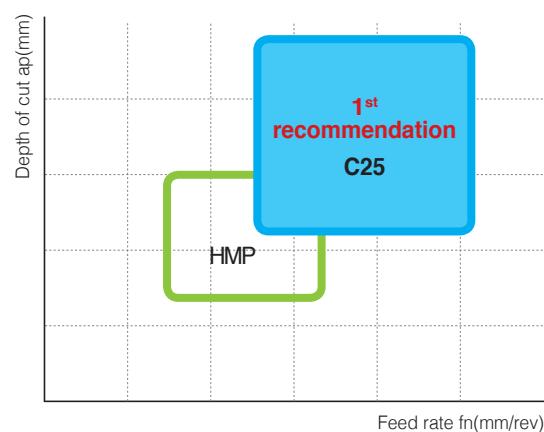
- K-power coating on a high toughness substrate. 1st recommended grade for longer tool life in general turning of grey cast iron and ductile cast iron.

Line-up of chip breakers

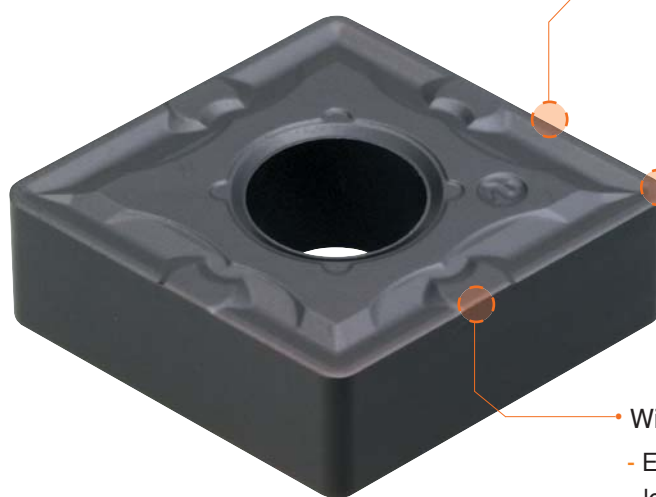
• Negative type



• Positive type



Features of chip breaker, VK



- Land with high cutting edge strength
 - improved chipping resistance in interrupted machining guarantees stable machining.
- Grooved shaped nose R
 - lowers cutting heat and cutting resistance.
- Wider supporting side on the insert surface
 - Ensures stable machining due to better clamping, lower chattering, less cutting load and less chipping in high feed roughing.

Machining Type	Grade	Recommended cutting speed v_c (m/min)		Chip breaker (nose R=0.8)	Recommended feed and depth of cut rate	
		Grey cast iron	GCD		f_n (mm/rev)	a_p (mm)
Finishing	NC6205	200~500	180~400	VM	0.10~0.50	1.0~5.0
Medium and roughing	NC6210	150~400	140~350	VK	0.15~0.55	1.5~6.0
Roughing	NC315K	120~300	100~250	-MA	0.20~0.60	2.0~7.0

03

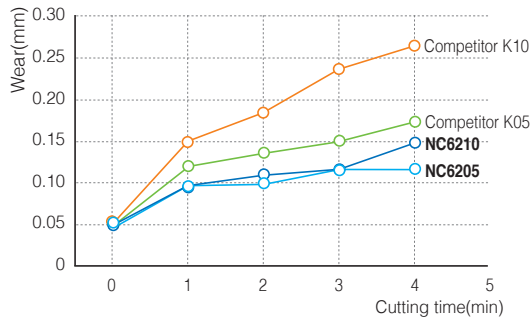
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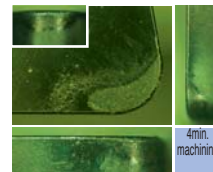
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Test Result

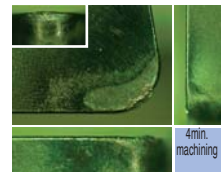
Wear resistance



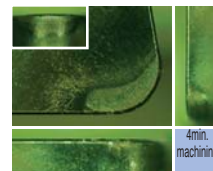
- **Workpiece** : Grey cast iron (GG25)
- **Cutting condition** : $vc(m/min)=600$, $fn(mm/rev)=0.30$, $ap(mm)=1.5$
dry, continuous external machining
- **Tool** : CNMA120408, DCLNL3232-P12



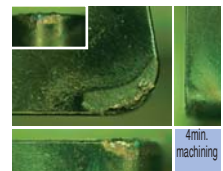
[NC6205]



[Competitor's K05]

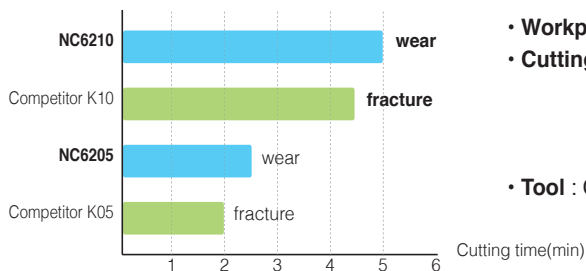


[NC6210]

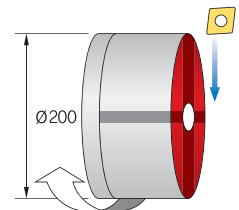


[Competitor's K10]

Fracture Resistance



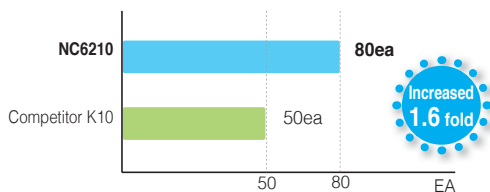
- **Workpiece** : Ductile cast iron (GGG60)
- **Cutting condition** : $vc(m/min)=120$, $fn(mm/rev)=0.30$, $ap(mm)=1.5$
wet, interrupted facing
- **Tool** : CNMA120408, DCLNL3232-P12



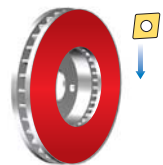
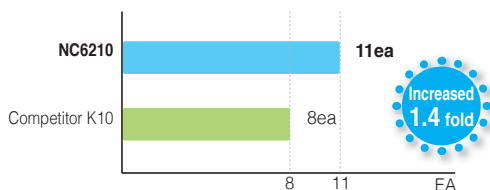
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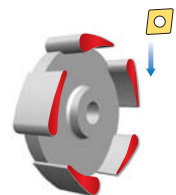
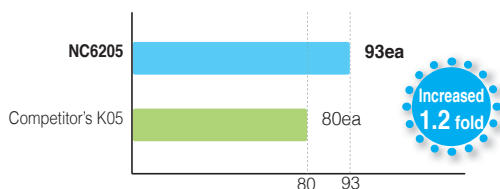
Application



- **Workpiece** : Gray cast iron (GC250), Brake Disc
- **Cutting condition** : $vc(m/min)=390$, $fn(mm/rev)=0.25$, $ap(mm)=200$, wet
- **Tool** : CNMG120412-VK (NC6210), PCLNR2525-M12



- **Workpiece** : Gray cast iron (GC250), Part of Pump
- **Cutting condition** : $vc(m/min)=350$, $fn(mm/rev)=0.25$, $ap(mm)=0.7$, wet
- **Tool** : CNMG120408-VK (NC6210), PCLNR2525-M12

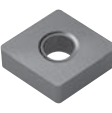
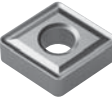
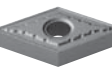
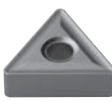
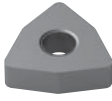
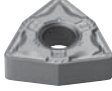


- **Workpiece** : Gray cast iron (GCD500), Shaft
- **Cutting condition** : $vc(m/min)=200$, $fn(mm/rev)=0.28$, $ap(mm)=2.0$, wet
- **Tool** : WNMG080412-VK (NC6205), DWLNL2525-M08

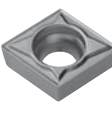
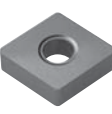
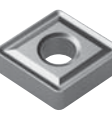


Insert Designation

• NC6205

Shape	Designation
	CNMA 120412
	CNMG 120408-B25
	120408-GR
	120408-VK
	120412-VK
	DNMG 150412-VK
	150612-VK
	TNMG 160408-VK
	WNMA 080408
	WNMG 080408-VK
	080412-VK

• NC6210

Shape	Designation
	CCMT 060204-C25
	060204-HMP
	060208-C25
	09T304-C25
	09T304-HMP
	09T308-C25
	09T308-HMP
	120404-C25
	120404-HMP
	120408-C25
	120408-HMP
	CNMA 120404
	120408
	120412
	120416
	160612
	190608
	190612
	190616
	CNMG 120404-B25
	120404-VM
	120408-B25
	120408-GR
	120408-VK
	120408-VM
	120412-B25
	120412-GR
	120412-VK
	120412-VM
	120416-GR
	120416-VK
	160608-GR

05

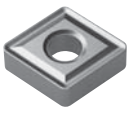
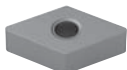
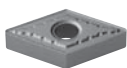
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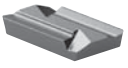
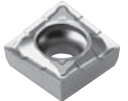
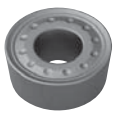
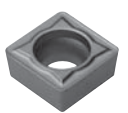
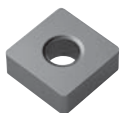
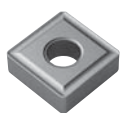
NC6205
NC6210

NC6205/NC6210

 Insert Designation

• NC6210

Shape	Designation
	CNMG 160612-GR
	190608-B25
	190608-GR
	190612-B25
	190612-GR
	190612-HR
	DCMT 070204-HMP
	11T304-C25
	11T304-HMP
	11T308-C25
	11T308-HMP
	DNMA 150408
	150412
	150608
	DNMG 150404-VK
	150404-VM
	150408-B25
	150408-GR
	150408-VK
	150408-VM
	150412-GR
	150412-VK
	150604-B25
	150604-VM
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	150608-GR
	150608-VK
	150608-VM
	150612-B25
	150612-GR
	150612-VK

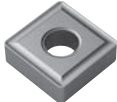
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	160410R-11
	MGMN 300-M
	400-M
	500-M
	600-M
	QCMT 070304-CM
	080304-CM
	10T304-CM
	RCMX 1204M0
	1606M0
	2006M0
	SCMT 09T304-C25
	09T308-C25
	120408-C25
	120408-HMP
	SNMA 120408
	120412
	120416
	150612
	190612
	SNMG 120404-B25
	120404-VK
	120408-B25
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	120408-VK
	120408-VM
	120412-B25

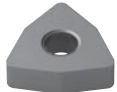
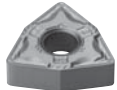
06

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Insert Designation

• NC6210

Shape	Designation
	SNMG 120412-GR
	120412-VK
	120412-VM
	190612-B25
	TCMT 090204-C25
	090208-C25
	110204-C25
	110208-C25
	16T304-C25
	16T304-HMP
	16T308-C25
	16T308-HMP
	TNMA 160404
	160408
	160412
	220408
	220412
	TNMG 160404-B25
	160404-VK
	160404-VM
	160408-B25
	160408-GR
	160408-VK
	160408-VM
	160408-VW
	160412-GR
	160412-VK
	160416-B25
	160416-VK
	220408-GR
	220412-GR
	220412-VK

Shape	Designation
	TPMR 110304-F
	VBMT 160404
	160404-HMP
	160408
	160408-HMP
	VNMG 160404-VM
	160408-VM
	160412-VK
	WNMA 060408
	080408
	080412
	WNMG 060408-VM
	080404-VK
	080408-B25
	080408-GR
	080408-LW
	080408-VK
	080408-VM
	080412-GM
	080412-GR
	080412-LW
	080412-VK
	080412-VM

07

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