

New

ISO
Turning
Grade

New leader of steel turning

NC3010

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Fono: 055 787169

ITACHILE
Commercial Tooling USA

Features

- NC3010 is newly innovated grade for steel turning at high speed operation (P10).
- Thanks to high tensile strength substrate & new CVD coated technology, NC3010 performs stable operation at high speed.
- Superb wear resistance and toughness of NC3010 guarantee better tool life comparing conventional NC3010.

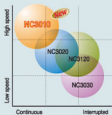
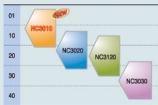


NC 3010™ Gold coated



- High tensile substrate with reinforced layer mechanism
- Applied TiN layer with fine surface, lubrication and clearly visible wear on cutting edge
- New Al₂O₃ film shows oxidation resistance in high speed turning
- Excellent bonding power of film is achieved
- Columnar MT-CVD film with improved wear resistance and toughness

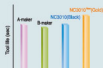
NC3000 series



Recommended cutting condition

Grade \ Condition	Cutting speed (vc/min)					Feed (in./min/rev)					Depth of cut (ap/mm)				
	30 - 100	100 - 200	200 - 300	300 - 400	400 -	0.01 - 0.15	0.10 - 0.25	0.20 - 0.30	0.30 - 0.40	0.40 -	0.1 - 1.0	1.0 - 2.0	2.0 - 3.0	3.0 - 4.0	4.0 -
NC3010™															

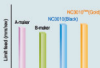
NC3010™ Cutting performance



• Impact resistance, Dry
SCM440-4G, vc=230, fn=0.25, ap=2.0



B-maker



• Limit feed (mm/rev), Dry
SCM440-4G, vc=130, ap=2.0



NC3010(Black)




• Wear resistance (mm), Wet
SOM40, vc=360, fn=0.25, ap=2.0







NC3010(Gold)

NC3010™ Machining examples

Insert	DNMG150608-VM	
Workpiece	Gear(SOM772HD)	
vc	250m/min	
fn	0.15-0.25mm/rev	
ap	2.0mm	
Coolant	Wet	

Insert	CNMG120408-VM	
Workpiece	Automobile part (SM5C)	
vc	260m/min	
fn	0.3mm/rev	
ap	2.5mm	
Coolant	Wet	

Insert	DNMG150608-VM	
Workpiece	Automobile part (Forged steel)	
vc	200-300m/min	
fn	0.23mm/rev	
ap	1.0mm	
Coolant	Wet	

Insert	DNMG150608-VM	
Workpiece	Automobile part (SM5C)	
vc	360-420m/min	
fn	0.28mm/rev	
ap	1.5-2.0mm	
Coolant	Wet	



NC3010 NEW



NC3010™ Stock items

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NC3010™ Stock items

Old inserts(NC210, NC310) covered by NC3010™(Gold)				NC3010™(Gold) Insert	
Designation	Code	Designation	Code	Designation	Code
CCMT06020-HMP	NC3015			CCMT06020-HMP	NC3010
CCMT06020-C25	NC3015	CCMT06020-C25	NC310	CCMT06020-C25	NC3010
CCMT06020-HMP	NC3015	CCMT06020-HMP	NC310	CCMT06020-HMP	NC3010
CCMT06020-HMP	NC3015			CCMT06020-HMP	NC3010
CCMT06T302-HMP	NC3015			CCMT06T302-HMP	NC3010
CCMT06T304-C25	NC3015	CCMT06T304-C25	NC310	CCMT06T304-C25	NC3010
CCMT06T304-HMP	NC3015	CCMT06T304-HMP	NC310	CCMT06T304-HMP	NC3010
		CCMT06T308-C25	NC310	CCMT06T308-C25	NC3010
		CCMT06T308-HMP	NC310	CCMT06T308-HMP	NC3010
CCMT120404-C25	NC3015	CCMT120404-C25	NC310	CCMT120404-C25	NC3010
CCMT120404-HMP	NC3015			CCMT120404-HMP	NC3010
CCMT120408-C25	NC3015			CCMT120408-C25	NC3010
CCMT120408-HMP	NC3015	CCMT120408-HMP	NC310	CCMT120408-HMP	NC3010
		CNMA120408	NC310	CNMA120408	NC3010
		CNMA120412	NC310	CNMA120412	NC3010
CNMG090304-HF	NC3015			CNMG090304-VF	NC3010
CNMG090304-HM	NC3015			CNMG090304-VM	NC3010
CNMG090308-HM	NC3015			CNMG090308-VM	NC3010
CNMG120404-B25	NC3015	CNMG120404-B25	NC310	CNMG120404-B25	NC3010
CNMG120404-HC	NC3015			CNMG120404-HC	NC3010
		CNMG120404-HF	NC310	CNMG120404-HF	NC3010
CNMG120404-HM	NC3015	CNMG120404-HM	NC310	CNMG120404-VM	NC3010
CNMG120404-HV	NC3015			CNMG120404-VV	NC3010
CNMG120408-B25	NC3015	CNMG120408-B25	NC310	CNMG120408-B25	NC3010
CNMG120408-B25K	NC3015			CNMG120408-B25K	NC3010
CNMG120408-GM	NC3015	CNMG120408-GM	NC310	CNMG120408-GM	NC3010
CNMG120408-GR	NC3015	CNMG120408-GR	NC310	CNMG120408-GR	NC3010
CNMG120408-HC	NC3015	CNMG120408-HC	NC310	CNMG120408-HC	NC3010
CNMG120408-HM	NC3015	CNMG120408-HM	NC310	CNMG120408-VM	NC3010
CNMG120408-HR	NC3015			CNMG120408-HR	NC3010
CNMG120408-HV	NC3015			CNMG120408-LW, VW	NC3010
				CNMG120408-VF	NC3010
CNMG120412-B25	NC3015			CNMG120412-B25	NC3010
		CNMG120412-GM	NC310	CNMG120412-GM	NC3010
		CNMG120412-GR	NC310	CNMG120412-GR	NC3010
CNMG120412-HM	NC3015			CNMG120412-VM	NC3010
CNMG120412-HR	NC3015			CNMG120412-HR	NC3010
CNMG120413-HV	NC3015			CNMG120413-LW	NC3010
CNMG180608-B25	NC3015			CNMG180608-B25	NC3010
		CNMG180608-GR	NC310	CNMG180608-GR	NC3010
CNMG180608-HM	NC3015			CNMG180608-VM	NC3010
CNMG180608-HR	NC3015			CNMG180608-HR	NC3010
CNMG180612-GR	NC3015	CNMG180612-GR	NC310	CNMG180612-GR	NC3010
CNMG180612-HR	NC3015			CNMG180612-HR	NC3010
CNMG180616-HR	NC3015			CNMG180616-HR	NC3010
CNMG180604-B25	NC3015			CNMG180604-B25	NC3010
CNMG180608-B25	NC3015			CNMG180608-B25	NC3010

Old Inerts(NC10, NC3010) covered by NC3010™(Gold)				NC3010™(Gold) Inert	
Designation	Grade	Designation	Grade	Designation	Grade
CMRG190608-HR	NC3010			CMRG190608-HR	NC3010
CMRG190612-B25	NC3010			CMRG190612-B25	NC3010
CMRG190612-GR	NC3010	CMRG190612-GR	NC3010	CMRG190612-GR	NC3010
CMRG190612-HR	NC3010			CMRG190612-HR	NC3010
CMRG190616-B25	NC3010			CMRG190616-B25	NC3010
		CMRG190616-GR	NC3010	CMRG190616-GR	NC3010
CMRG190616-HR	NC3010			CMRG190616-HR	NC3010
CMRM190612-GR	NC3010	CMRM190612-GR	NC3010	CMRM190612-GR	NC3010
DCGT11T308-HFP	NC3010			DCGT11T308-HFP	NC3010
DCMT070302-HMP	NC3010			DCMT070302-HMP	NC3010
DCMT070304-HMP	NC3010			DCMT070304-HMP	NC3010
DCMT070308-HMP	NC3010			DCMT070308-HMP	NC3010
DCMT11T302-HMP	NC3010			DCMT11T302-HMP	NC3010
DCMT11T304-C25	NC3010	DCMT11T304-C25	NC3010	DCMT11T304-C25	NC3010
DCMT11T304-HMP	NC3010	DCMT11T304-HMP	NC3010	DCMT11T304-HMP	NC3010
DCMT11T308-C25	NC3010	DCMT11T308-C25	NC3010	DCMT11T308-C25	NC3010
DCMT11T308-HMP	NC3010			DCMT11T308-HMP	NC3010
		DMBA150608	NC3010	DMBA150608	NC3010
DMRG110404-HM	NC3010			DMRG110404-YM	NC3010
DMRG110408-HM	NC3010			DMRG110408-YM	NC3010
DMRG110404-HC	NC3010			DMRG110404-HC	NC3010
		DMRG110404-HF	NC3010	DMRG110404-YF	NC3010
DMRG110404-HM	NC3010			DMRG110404-YM	NC3010
DMRG110408-HC	NC3010			DMRG110408-HC	NC3010
DMRG110408-HM	NC3010			DMRG110408-YM	NC3010
DMRG110604-B25	NC3010			DMRG110604-B25	NC3010
DMRG110604-HC	NC3010			DMRG110604-HC	NC3010
DMRG110604-HF	NC3010			DMRG110604-YF	NC3010
DMRG110604-HM	NC3010	DMRG110604-HM	NC3010	DMRG110604-YM	NC3010
DMRG110608-B25	NC3010	DMRG110608-B25	NC3010	DMRG110608-B25	NC3010
DMRG110608-GM	NC3010	DMRG110608-GM	NC3010	DMRG110608-GM	NC3010
		DMRG110608-GR	NC3010	DMRG110608-GR	NC3010
DMRG110608-HC	NC3010			DMRG110608-HC	NC3010
DMRG110608-HFK	NC3010			DMRG110608-YF	NC3010
DMRG110608-HM	NC3010	DMRG110608-HM	NC3010	DMRG110608-YM	NC3010
DMRG110608-HR	NC3010			DMRG110608-HR	NC3010
		DMRG110612-HF	NC3010	DMRG110612-YF	NC3010
DMRG110612-HM	NC3010			DMRG110612-HM	NC3010
DMRG110612-HR	NC3010			DMRG110612-HR	NC3010
KMJX180408-L11	NC3010	KMJX180408-L11	NC3010	KMJX180408-L11	NC3010
KMJX180408-R11	NC3010	KMJX180408-R11	NC3010	KMJX180408-R11	NC3010
KMJX180410-L11	NC3010			KMJX180410-L11	NC3010
KMJX180410-R11	NC3010			KMJX180410-R11	NC3010
MGMN200-M	NC3010			MGMN200-M	NC3010
RCMX200M0	NC3010			RCMX200M0	NC3010
				SCGT08T304-HFP	NC3010
				SCMT08T304-HFP	NC3010

Old Inerts(NC210, NC311) covered by NC3010™(Gold)				NC3010™(Gold) Invert	
Designation	Code	Designation	Code	Designation	Code
SCMT09T308-C28	NC3015	SCMT09T308-C28	NC310	SCMT09T308-C28	NC3010
SCMT09T308-HMP	NC3015			SCMT09T308-HMP	NC3010
SCMT120404-HMP	NC3015			SCMT120404-HMP	NC3010
		SCMT120408-C28	NC310	SCMT120408-C28	NC3010
SCMT120408-HMP	NC3015			SCMT120408-HMP	NC3010
		SAMA120408	NC310	SAMA120408	NC3010
		SAMA120412	NC310	SAMA120412	NC3010
				SAMA200724T	NC3010
SAMG090304-HM	NC3015			SAMG090304-VM	NC3010
SAMG090308-HM	NC3015			SAMG090308-VM	NC3010
SAMG120404-HF	NC3015			SAMG120404-VF	NC3010
SAMG120404-HM	NC3015			SAMG120404-VM	NC3010
SAMG120408-B25	NC3015	SAMG120408-B25	NC310	SAMG120408-B25	NC3010
		SAMG120408-SM	NC310	SAMG120408-SM	NC3010
		SAMG120408-SR	NC310	SAMG120408-SR	NC3010
SAMG120408-HC	NC3015			SAMG120408-HC	NC3010
		SAMG120408-HF	NC310	SAMG120408-VF	NC3010
SAMG120408-HM	NC3015	SAMG120408-HM	NC310	SAMG120408-VM	NC3010
SAMG120412-HM	NC3015			SAMG120412-VM	NC3010
SAMG120412-HR	NC3015			SAMG120412-HR	NC3010
SAMG150608-HR	NC3015			SAMG150608-HR	NC3010
SAMG150612-SR	NC3015			SAMG150612-SR	NC3010
SAMG150612-HR	NC3015			SAMG150612-HR	NC3010
SAMG190608-B25	NC3015			SAMG190608-B25	NC3010
SAMG190612-B25	NC3015			SAMG190612-B25	NC3010
SAMG190612-HR	NC3015			SAMG190612-HR	NC3010
SAMG190616-B25	NC3015			SAMG190616-B25	NC3010
SAMG190616-HR	NC3015			SAMG190616-HR	NC3010
				SAMG200716-B25	NC3010
		SAMM190816-GH	NC310	SAMM190816-GH	NC3010
		SFGM120308	NC310	SFGM120308	NC3010
SPMR090304-F	NC3015			SPMR090304-F	NC3010
SPMR090308-M	NC3015			SPMR090308-M	NC3010
SPMR120304-F	NC3015			SPMR120304-F	NC3010
SPMR120308-M	NC3015	SPMR120308-M	NC310	SPMR120308-M	NC3010
TGMT090204-C28	NC3015	TGMT090204-C28	NC310	TGMT090204-C28	NC3010
TGMT090208-C28	NC3015			TGMT090208-C28	NC3010
TGMT110204-C28	NC3015	TGMT110204-C28	NC310	TGMT110204-C28	NC3010
TGMT110204-HMP	NC3015	TGMT110204-HMP	NC310	TGMT110204-HMP	NC3010
		TGMT110208-C28	NC310	TGMT110208-C28	NC3010
TGMT110208-HMP	NC3015			TGMT110208-HMP	NC3010
TGMT16T304-C28	NC3015	TGMT16T304-C28	NC310	TGMT16T304-C28	NC3010
TGMT16T304-HMP	NC3015	TGMT16T304-HMP	NC310	TGMT16T304-HMP	NC3010
TGMT16T308-C28	NC3015	TGMT16T308-C28	NC310	TGMT16T308-C28	NC3010
TGMT16T308-HMP	NC3015	TGMT16T308-HMP	NC310	TGMT16T308-HMP	NC3010
				TGMX200408E76-X188	NC3010
		TNMA160408	NC310	TNMA160408	NC3010

Old Inerts(NC210, NC2015) covered by NC3010™(Gold)				NC3010™(Gold) Inert	
Designation	Grade	Designation	Grade	Designation	Grade
		THMA220408	NC310	THMA220408	NC3010
		THMA220412	NC310	THMA220412	NC3010
THMG19308-HH	NC2015			THMG19308-VH	NC3010
THMG193404-B25	NC2015			THMG193404-B25	NC3010
		THMG193404-GM	NC310	THMG193404-GM	NC3010
THMG193404-HC	NC2015	THMG193404-HC	NC310	THMG193404-HC	NC3010
THMG193404-HF	NC2015	THMG193404-HF	NC310	THMG193404-VF	NC3010
THMG193404-HM	NC2015	THMG193404-HM	NC310	THMG193404-VH	NC3010
THMG193408-B25	NC2015	THMG193408-B25	NC310	THMG193408-B25	NC3010
		THMG193408-GM	NC310	THMG193408-GM	NC3010
		THMG193408-GR	NC310	THMG193408-GR	NC3010
THMG193408-HC	NC2015	THMG193408-HC	NC310	THMG193408-HC	NC3010
THMG193408-HM	NC2015	THMG193408-HM	NC310	THMG193408-VH	NC3010
THMG193408-HR	NC2015			THMG193408-HR	NC3010
				THMG193408-VF	NC3010
THMG193412-HH	NC2015			THMG193412-VH	NC3010
THMG229404-B25	NC2015			THMG229404-B25	NC3010
THMG229404-HH	NC2015			THMG229404-VH	NC3010
THMG229408-B25	NC2015	THMG229408-B25	NC310	THMG229408-B25	NC3010
		THMG229408-GM	NC310	THMG229408-GM	NC3010
THMG229408-HC	NC2015			THMG229408-HC	NC3010
THMG229408-HM	NC2015			THMG229408-VH	NC3010
THMG229408-HR	NC2015			THMG229408-HR	NC3010
THMG229412-HH	NC2015			THMG229412-VH	NC3010
THMG229412-HR	NC2015			THMG229412-HR	NC3010
		TPSN16308	NC310	TPSN16308	NC3010
TPMR110304-F	NC2015	TPMR110304-F	NC310	TPMR110304-F	NC3010
TPMR110308-M	NC2015	TPMR110308-M	NC310	TPMR110308-M	NC3010
TPMR160304-F	NC2015	TPMR160304-F	NC310	TPMR160304-F	NC3010
TPMR160308-M	NC2015	TPMR160308-M	NC310	TPMR160308-M	NC3010
		TPUN16254	NC310	TPUN16254	NC3010
VBMT110304-HMP	NC2015			VBMT110304-HMP	NC3010
VBMT160404	NC2015	VBMT160404	NC310	VBMT160404	NC3010
VBMT160404-HMP	NC2015			VBMT160404-HMP	NC3010
VBMT160408	NC2015	VBMT160408	NC310	VBMT160408	NC3010
VBMT160408-HMP	NC2015			VBMT160408-HMP	NC3010
VCMT160404-HMP	NC2015			VCMT160404-HMP	NC3010
VCMT160408-X30	NC2015			VCMT160408-X30	NC3010
		VNMG160404-HF	NC310	VNMG160404-VF	NC3010
VNMG160404-HM	NC2015			VNMG160404-VH	NC3010
VNMG160408-HM	NC2015			VNMG160408-VH	NC3010
		WNMA20608	NC310	WNMA20608	NC3010
WNMG060404-HC	NC2015			WNMG060404-HC	NC3010
		WNMG060404-HF	NC310	WNMG060404-VF	NC3010
WNMG060404-HM	NC2015			WNMG060404-VH	NC3010
		WNMG060408-GM	NC310	WNMG060408-GM	NC3010
WNMG060408-HF	NC2015			WNMG060408-VF	NC3010



NC3010 NEW

NC3010™ Stock items

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Old inserts(NC210, NC318) covered by NC3010™(Gold)				NC3010™(Gold) Insert	
Designation	Grade	Designation	Grade	Designation	Grade
WNMG080405-HM	NC3015	WNMG080405-HM	NC310	WNMG080405-HM	NC3010
		WNMG080405-HF	NC310	WNMG080405-VF	NC3010
WNMG080404-HM	NC3015			WNMG080404-VH	NC3010
				WNMG080404-VW	NC3010
		WNMG080405-GM	NC310	WNMG080405-GM	NC3010
WNMG080405-GR	NC3015	WNMG080405-GR	NC310	WNMG080405-GR	NC3010
WNMG080405-HC	NC3015			WNMG080405-HC	NC3010
WNMG080405-HM	NC3015	WNMG080405-HM	NC310	WNMG080405-HM	NC3010
WNMG080405-HR	NC3015			WNMG080405-VH	NC3010
WNMG080405-HW	NC3015			WNMG080405-LW, VW	NC3010
		WNMG080412-GM	NC310	WNMG080412-GM	NC3010
		WNMG080412-GR	NC310	WNMG080412-GR	NC3010
WNMG080412-HM	NC3015	WNMG080412-HM	NC310	WNMG080412-VH	NC3010
WNMG080412-HR	NC3015			WNMG080412-HR	NC3010
				WNMG080415-GR	NC3010

• Order made items are available



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