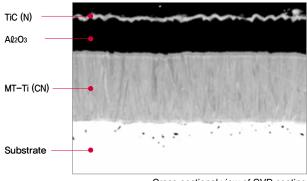
CVD Coated Grades

Features

- The special crystalline structure of the new coating technology achieves superior toughness
- A multi-layer coating with strong bonding strength provides superior wear resistance



Cross-sectional view of CVD coating

Grade Selection Guide

➤ Turning

1	Vorkpiece	Machining types	Recommended grade	Recommended cutting speed(m/min)	ISO	Application range						
	Steel	Continuous cutting	NC3010	295 (170 ~ 420)	P05	1100010						
			NC3215 🐠	²⁹⁵ (170 ~ 420)	P10	NC3010						
P		Interrupted cutting	NC3225	260 (150 ~ 370)	P15	NC3215						
					P20	NC3225						
			NC3120	260 (120 ~ 370)	P25	NC3120						
			NC3030	205 (120 ~ 290)	P30	NC3030 NC500H						
			NC5330	205 (120 ~ 290)	P35	NC5330						
			NC500H	205 (120 ~ 290)	P40							
M	Stainless steel	Continuous cutting	NC9115	240 (220 ~ 260)	M10	Alcour Time						
			NO0405	` '	M20	NC9115 NC5330						
		Interrupted cutting	NC9125	210 (190 ~ 230)	M30	Nell						
			NC9135	180 (160 ~ 200)	M40	NC9135						
K	Cast iron	Continuous cutting	NC6205	315(180 ~ 450)	K01	NOCCOL						
			NC6210	250 (130 ~ 370)	K10	NC6210 NC6210						
		Interrupted cutting	NC6215	220 (130 ~ 310)	K20	NC6215 NC5330						
			NC5330	190 (110 ~ 270)	K30							
s	HRSA	Continuous cutting	NC5330	40 (20 ~ 60)	S10							
3	ППЭА	Interrupted cutting			S20	NC5330						

► Milling

V	Vorkpiece	Machining types	Recommended grade	Recommended cutting speed(m/min)	ISO	Application range					
		Continuous cutting	NC5330	205 (120 ~ 290)	P20 P25	NC5330					
P	Steel	Continuous cutting	NC5340 NCM325	230 (130 ~ 330)	P30 P35	NC5340 NCM325					
		Interrupted cutting	NC5350 A NCM335	205 (120 ~ 290)	P40 P45	NC5350 NCM335					
	Stainless steel	Continuous cutting	NC5330	140 (80 ~ 200)	M10 M20						
		Continuous cutting	NC5340 A NCM325	155 (90 ~ 220)	M25 M30	NC5330 NC5340 NCM325					
		Interrupted cutting	NC5350 A NCM335	140 (80 ~ 200)	M35 M40	NC5350 NCM335					
K	Cast iron	Continuous cutting	NC5330	190 (110 ~ 270)	K10 K20	NC5330 NC5330					
			NC5340 4	150 (80 ~ 250)	K30	NC5340 NC5340					

cBN Grades

Features

• cBN is a cutting tool material made under ultra high pressure and temperature sintering of a mixture of cubic boron nitride and a special ceramic binder material.

cBN tools are suitable for high speed precise machining in hardened steels and cast irons. Machining with cBN can effectively replace the conventional grinding process.



➤ Cutting Conditions of cBN Grades

so			Insert	_		Cutting Speed, vc (m/min)						
	Grades		color	Application	50	100	150	200	250	300	feed, fn	Depth of cut, ap
		DNC100		Continuous cutting at high speed		0.03~0.3	0.03~0.3					
	Coated	DNC250		Continuous and low interrupted cutting at high speed	120 220						0.05~0.3	0.05~0.3
		DNC350		Medium and high interrupted cutting	90 150						0.05~0.3	0.05~0.3
		DNC400		Continuous and medium interrupted cutting	Ş	90			220		0.05~0.3	0.05~0.5
	Non-coated	KB410		Continuous cutting at high speed			150	200			0.03~0.13	0.03~0.2
H Heat-treated steel		KB1000		Continuous cutting at high speed		130			250		0.03~0.15	0.03~0.2
H Heat-tre		KB420		Highly efficient cutting	120 150						0.03~0.3	0.03~0.5
		KB425		Interrupted cutting at high speed	150 200						0.03~0.3	0.03~0.5
		KB320		Medium and low interrupted cutting	80		120				0.03~0.2	0.03~0.3
		KB2000		Medium and low interrupted cutting	80 200						0.03~0.2	0.03~0.3
		KB335		High interrupted cutting	80 110						0.03~0.2	0.03~0.3
		KB400		High speed and high depth of cut		120			220		0.10~0.3	0.5