KORLOY NOTICE

"Another Originality" Everyday we pursue Another Originality for the Future

CVD Milling NCM535 & NCM545 New Grades

Purpose

• To promote new grades for higher productivity when roughing/high speed/large machining for steel and cast iron

Subject Item

• NCM535 (CVD Milling P35/K25), NCM545 (CVD Milling P45/K30)

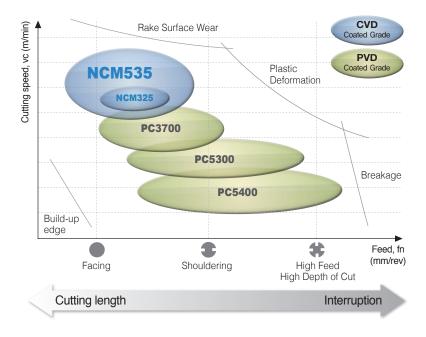
See the attached #1 for details

Detailed Information

1 Features

- · Application of the high-tough substrate which has high thermal conductivity and toughness
- High-performance CVD coating with outstanding wear resistance and properties at high temperature
- Excellent chipping and welding resistance due to powerful after-treatment

2 Application Range



3 Recommended Cutting Conditions

See the attached #1 for details

Date

From March 2019









[Attached 1]

■ Available Stock (Milling)

Designation		Grade	
		NCM535	
ONMX	060608-MF	•	
	080608-MF	•	
	0606ANN-MF	•	
	0806ANN-MF	•	
	060608-MM	•	
	080608-MM	•	
	0606ANN-MM	•	
	0806ANN-MM	•	

	Grade	
	NCM535	
SNMX	1206ANN-MF	•
	1507ANN-MF	•
	1206ENN-MF	•
	1507ENN-MF	•
	1206QNN-MF	•
	1206ANN-MM	•
	1507ANN-MM	•
	1206ENN-MM	•
	1507ENN-MM	•
	1206QNN-MM	•

■ Recommended Cutting Conditions

Workpiece	Hardness	Chip	Rec	commended Cutting Co	onditions
	(HB)	B) breaker	vc (m/min)	fz (mm/t)	ap (mm)
Low carbon steel	85 - 175	ММ	200 - 400	0.12 - 0.35	RM8A 6.0mm
High carbon steel	175 - 225		200 - 380		
Alloy steel	275 - 325		200 - 300		
Gray Cast Iron	190 - 220		250 - 350		
Malleable Cast Iron	140 - 200		200 - 300		
Low carbon steel	85 - 175		250 - 400	0.12 - 0.3	
High carbon steel	175 - 225	MF	250 - 380		
Alloy steel	275 - 325		200 - 300		
Gray Cast Iron	190 - 220		250 - 350		
Malleable Cast Iron	140 - 200		200 - 300		



[Attached 2]

□ Grade Comparison

KORLOY	Competitor A	Competitor B	Competitor C	Competitor D	Competitor E
NCM535	GC4230	WKP35S	IC5100	T350M	TT7800
NCM545	GC4240	WKP45S	IC5400	MM4500	-

Inse	ert	Cutting-edge	Features
For light cutting MF			Due to low cutting load, it is good for light cutting and difficult-to-cut material
For general cutting MM			It is suitable design for general milling



[Attached 3]

Performance Evaluation



• RM8

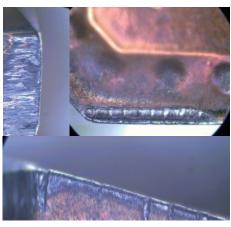
Milling [Alloy]

Workpiece SCM440 [KS], 42CrMo4 [ISO], 300 x 200 x 100 mm

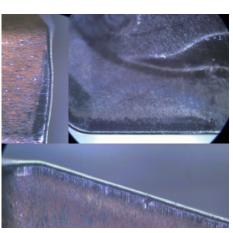
vc (m/min) = 300, fz (mm/t) = 0.2Cutting conditions ap (mm) = 2.0, dry

2,080cm3 Tool after chip removal Cutting time

Insert SNMX1206ANN-MM ■ Tools Holder RM8ACM4125HR-M







[NCM535]



• RM8

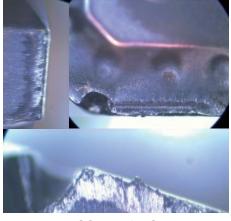
Milling [Cast]

Workpiece GC250 [KS], 250 [ISO], 300 x 200 x 100 mm

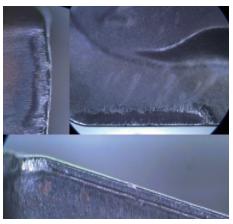
Cutting vc (m/min) = 300, fz (mm/t) = 0.2conditions ap (mm) = 2.0, dry

2,080cm3 Tool after chip removal Cutting time

Insert SNMX1206ANN-MM ■ Tools Holder RM8ACM4125HR-M



[Competitor]



[NCM535]

