







Finishing for HRSA Materials | BIDEMICS

# **BIDEMICS NTK120**

# Industry changing - Super high speed finishing of HRSA materials.

Up to 15 times faster speeds vs. carbide and CBN

# | Key Points

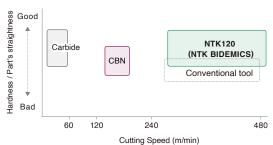
- · Wear resistance provides performance and consistency of machined part straightness
- Offers finishing speeds of 480 m/min

#### Application Area

Continuous cuts when finishing HRSA materials

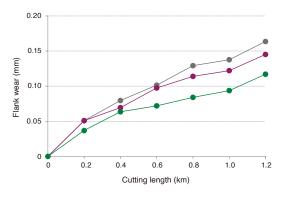
# Recommended Cutting Conditions

Cutting Speed and Wear Resistance Comparison

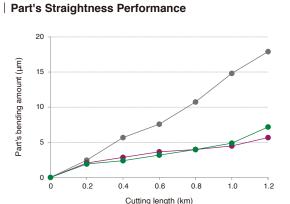


Grade	Material	Application	Process	Cutting speed (m/min)	Feed (mm/rev)	DOC (mm)	With coolant
NTK120	Heat Resistant Super Alloys	Turning	Finishing	180-500	0.05-0.20	0.1-0.7	•

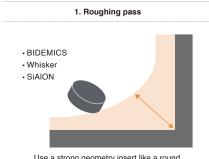
#### Wear Resistance

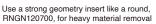


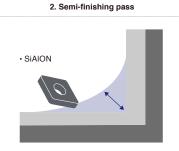




## Recommended Machining Passes at a Corner







SiAlON grades are best to remove extra material at the corner

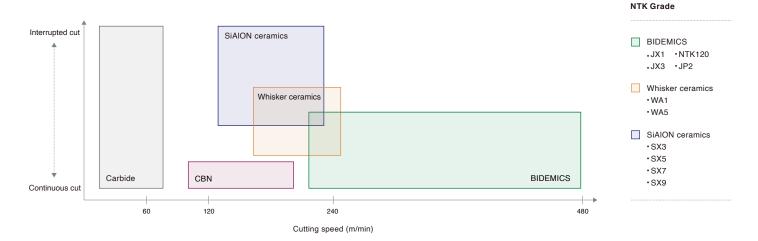


NTK120 - Machine with a consistent DOC to provide stable tool life

### Insert Item List

Geometry	EDP	Item number		Corner R	Grade	Dimensions (mm)		
Geometry	EDF				NTK120	IC	Thickness	Edge preparation
	5106604	CNGA 120404	BQENB	0.4	•	- 12.7	4.76	Honed edge 0.04
	5106620	120408	BQENB	0.8	•			
	5106612	120412	BQENB	1.2	•			
	5106646	DNGA 150404	BQENB	0.4	•			
	5106653	150408	BQENB	0.8	•			
	5106661	150412	BQENB	1.2	•			
	5106679	VNGA 160404	BQENB	0.4	•	9.525		
	5106687	160408	BQENB	0.8	•			

# NTK turning solutions for HRSA materials





### NTK CUTTING TOOLS JAPAN

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