

# NEW PRODUCT NEWS



BIDEMICS

## NTK 120

Finishing for HRSA Materials



BIDEMICS

## Machine HRSA materials at speeds of 480 m/min with **BIDEMICS**

BIDEMICS is a revolutionary material, released in 2014, which has greatly improved productivity for manufacturers machining HRSA materials; predominantly in the Aerospace industry. Now, we are releasing the newest evolution of this material with improved wear resistance.

# NTK 120

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

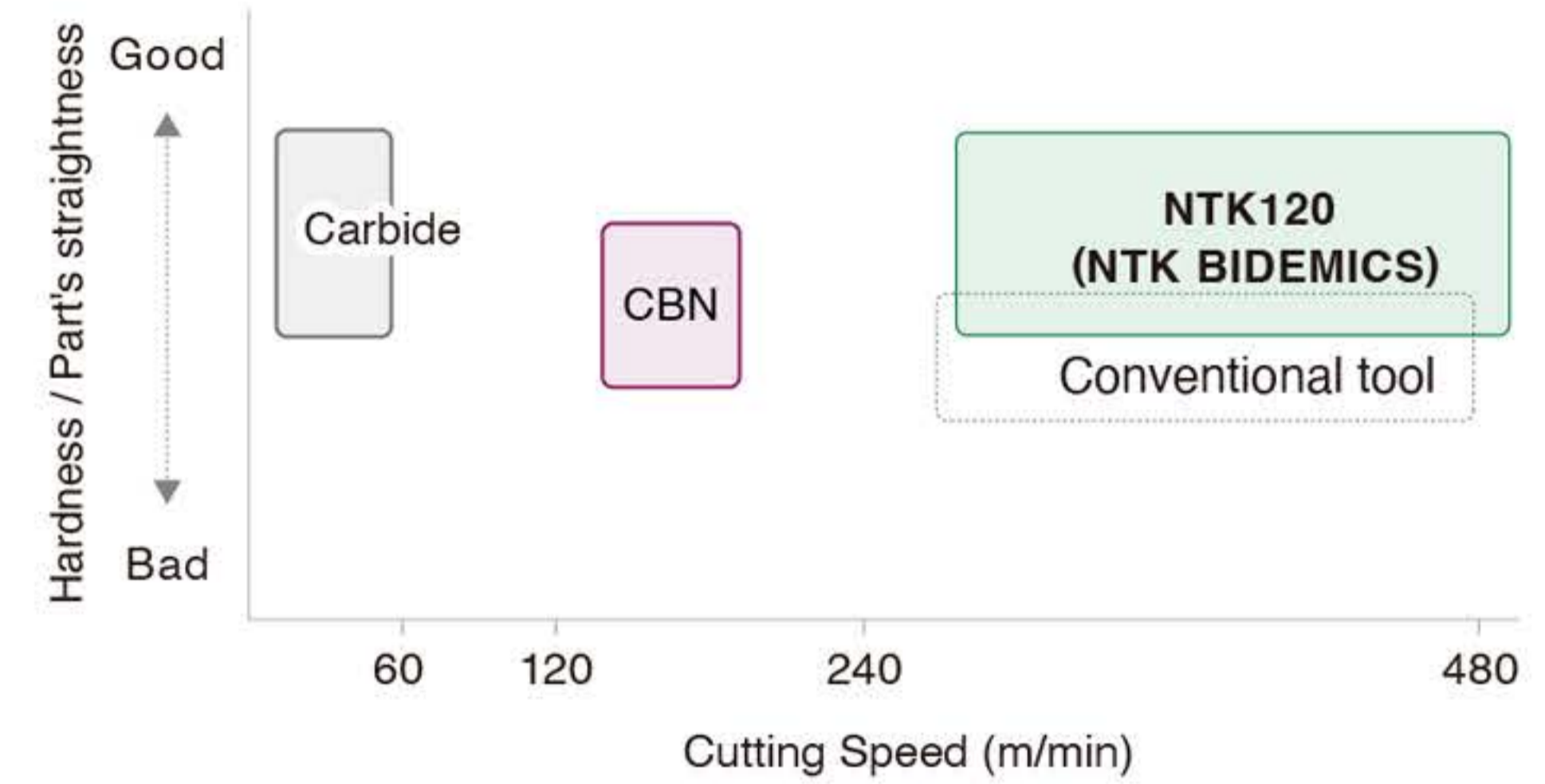
### Application Area

Continuous cuts when finishing HRSA materials

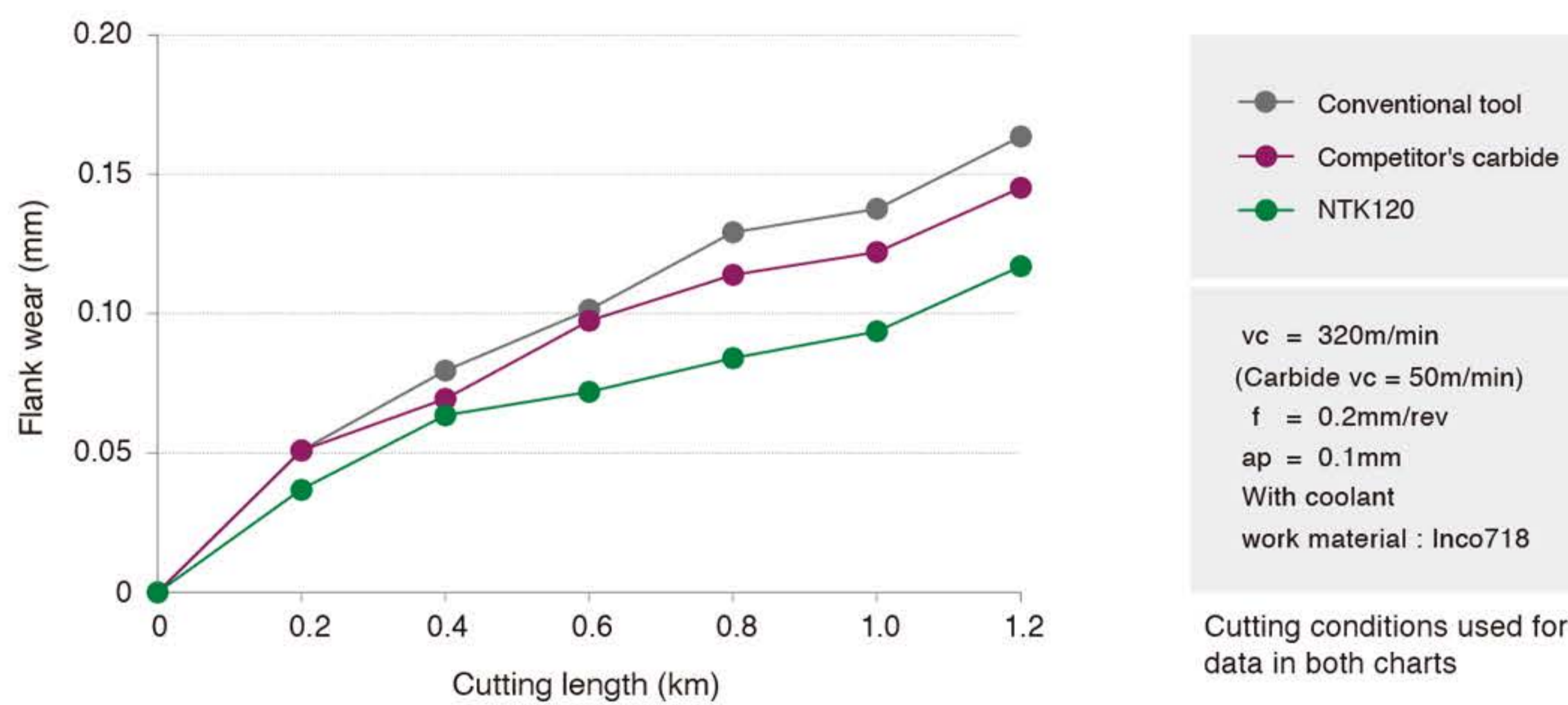
### Recommended Cutting Conditions

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	●

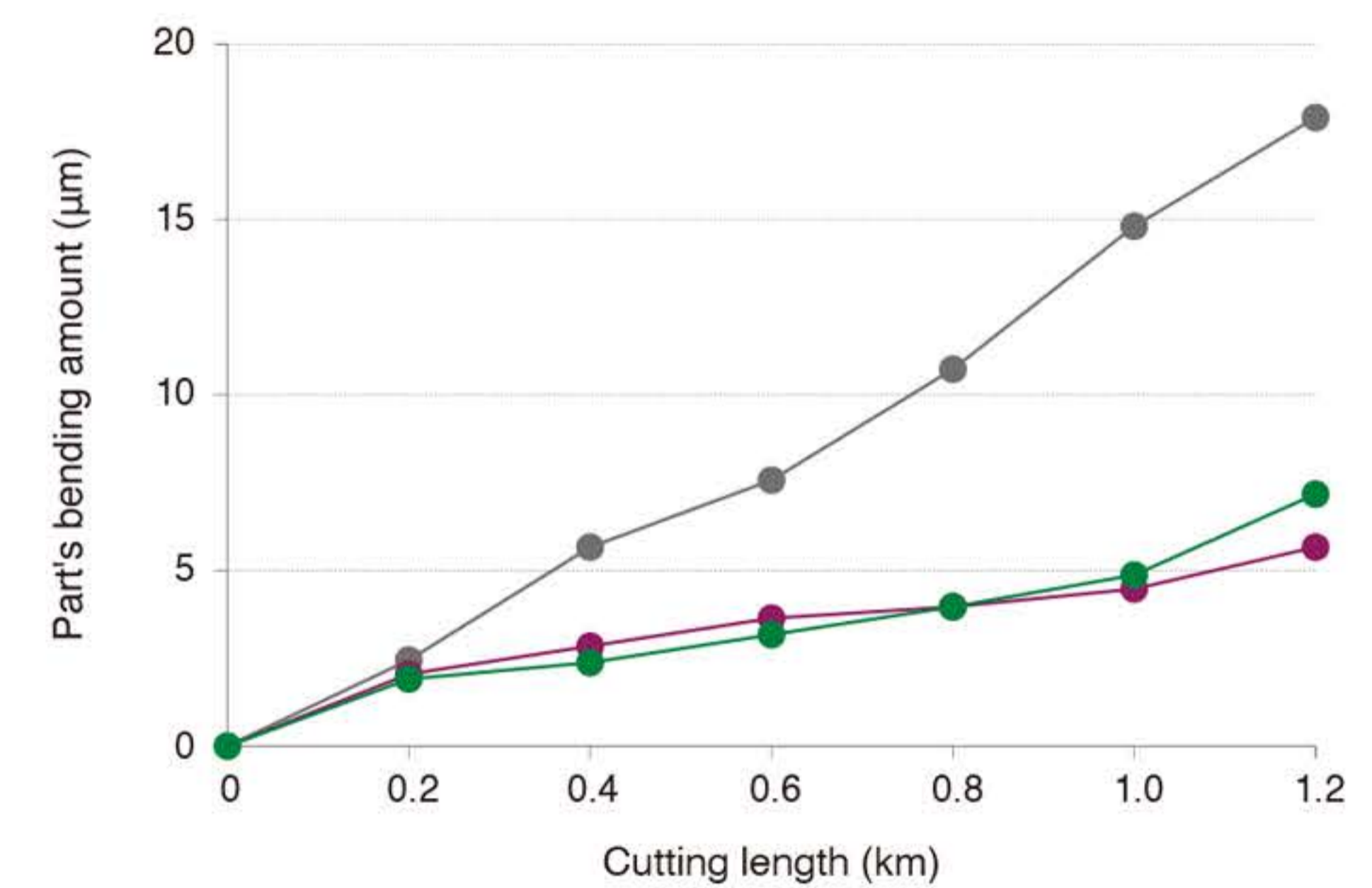
### Cutting Speed and Wear Resistance Comparison



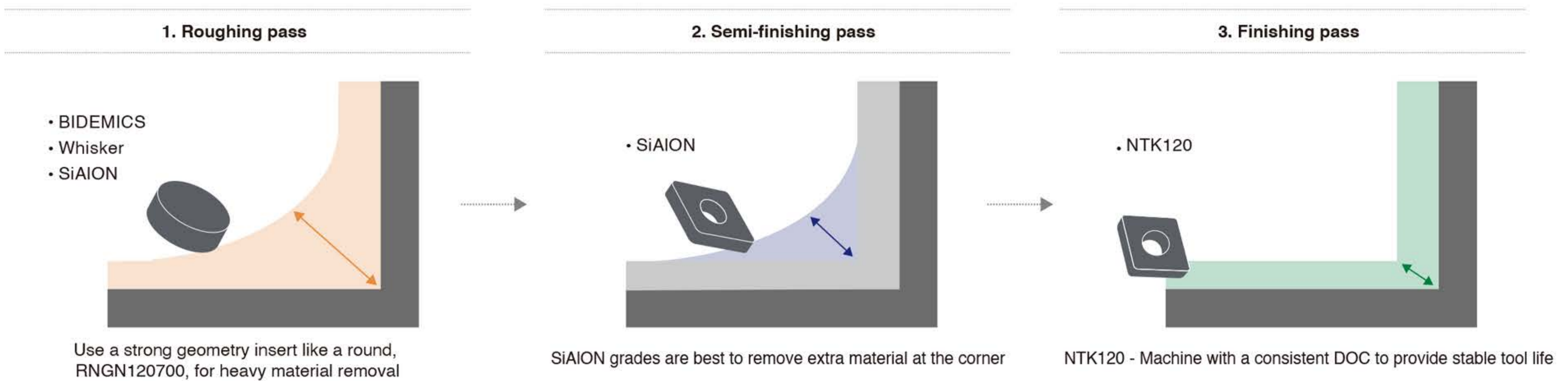
### Wear Resistance



### Part's Straightness Performance



### Recommended Machining Passes at a Corner

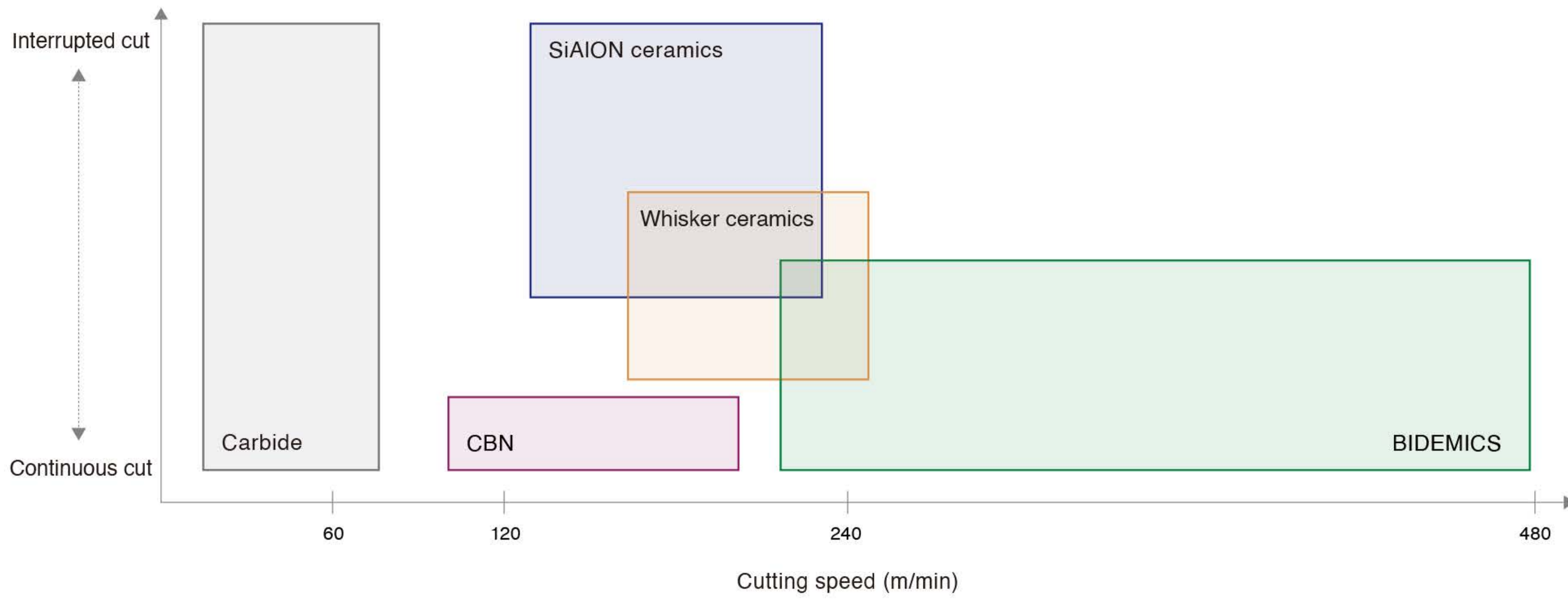


### Insert Item List

Geometry	EDP	Item number	Corner R	Dimensions (mm)				
				Grade	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	●				9.525
	5106653	150408 BQENB	0.8	●				
	5106661	150412 BQENB	1.2	●				
	5106679	VNGA 160404 BQENB	0.4	●	9.525			
	5106687	160408 BQENB	0.8	●				

## BIDEMICS

### | NTK turning solutions for HRSA materials



#### NTK Grade

- BIDEMICS**
  - JX1 • NTK120
  - JX3 • JP2
- Whisker ceramics**
  - WA1
  - WA5
- SiAlON ceramics**
  - SX3
  - SX5
  - SX7
  - SX9

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