





Machine HRSA materials at speeds of 1600 SFM 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.

JPO Finishing for HRSA materials | BIDEMICS

BIDEMICS JPO

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 1600 SFM

Application Area

Continuous cuts when finishing HRSA materials

Recommended Cutting Conditions



Grade	Material	Application	Process	Cutting Speed (SFM)	Feed (IPR)	DOC (inch)	With coolant
JP0	Heat Resistant Super Alloys	Turning	Finishing	700 - 1200	.004008	.010015	•

Wear Resistance





| Part Straightness vs. Cut Length



Recommended Machining Passes at a Corner



Use a strong geometry insert like a round, RNG45, for heavy material removal



SiAION grades are best to remove extra material at the corner



JP0 - Machine with a consistent DOC to provide stable tool life

Insert Item List

Coometry	500	Now window	Corner D	Grade	D	mensions (ind	:h)
Geometry	EDF		Comern	JP0	IC	Thickness	Edge preparation
	5106604	CNGA 431BQE02	.016	•			
	5106620	432BQE02	.031	•			
	5106612	433BQE02	.047	•	1/2		
	5106646	DNGA 431BQE02	.016	•	1/2		Honed edge
	5106653	432BQE02	.031	•		3/16	
	5106661	433BQE02	.047	•			
	5106679	VNGA 331BQE02	.016	•	2/9		
	5106687	332BQE02	.031	•	5/6		

| NTK Turning Solutions for HRSA Materials





NTK Cutting Tools USA

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