

Solution for HRSA Machining in Aerospace and Energy Industry

BIDEMICS - Game Changer

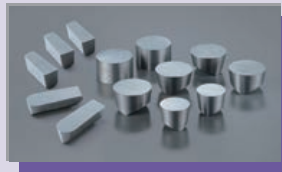
- 1600 SFM Capability
- Double tool life at whisker's speed range



JP2/120

- **Features**
 - 10 to 15x speed capability vs. carbide
 - Better wear resistance and notching resistance than CBNs
 - Superior surface finish to Carbide or CBN
- **Work Materials**
 - Inco 718 • 718 Plus
 - Powdered metal • Inco 625 • Rene

JX1



- **Features**
 - Up to 1600 SFM speed capability
 - Much longer tool life at Whisker ceramics' speed range
 - Superior surface finish vs. Whisker ceramics
- **Work Materials**
 - Inco 718 • 718 Plus
 - Powdered metal
 - Inco 625 • Rene

JX3

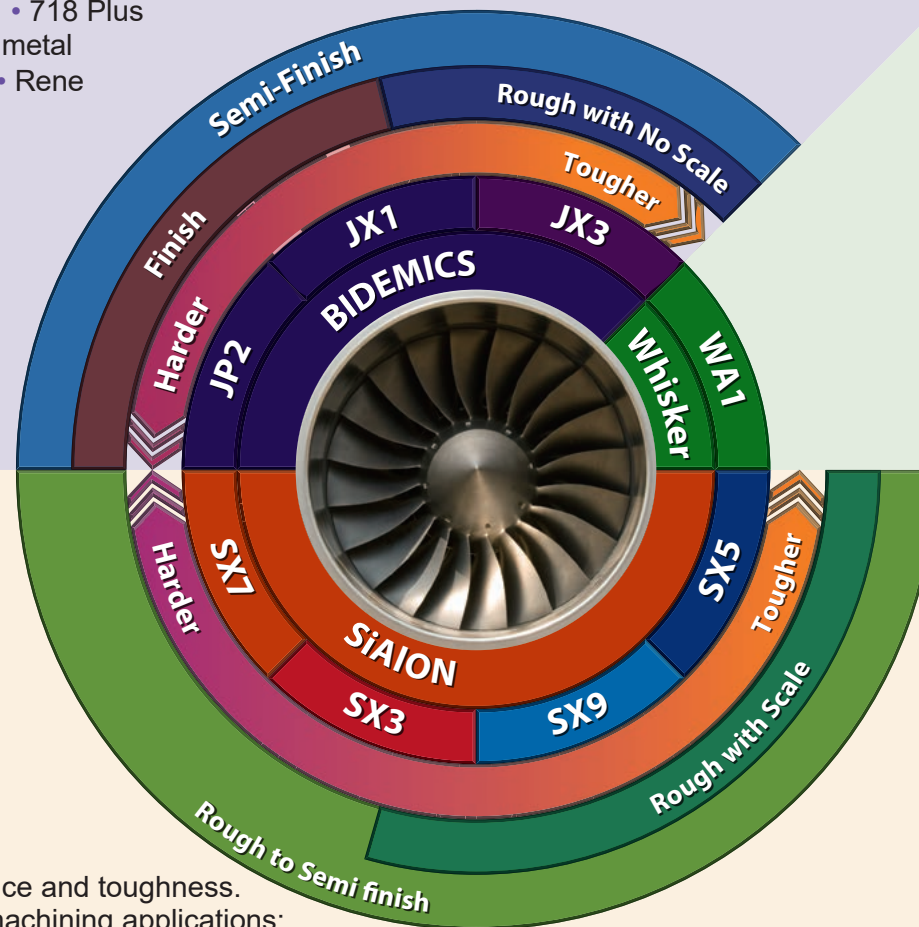


- **Features**
 - Added toughness in BIDEMICS
 - Same speed capability as JX1
- **Work Materials**
 - Inco 718 • 718 Plus • Powdered metal
 - Inco 625 • Rene

WA1



- **Features**
 - Better flank wear resistance compared to SiAlON ceramics
 - Better notching resistance compared to competitor's whisker ceramics
- **Work Materials**
 - Inco 718 • Inco 625



Whisker - Versatile Player

- Productivity and reliability

SX7

- **Features**
 - Can run at same cutting condition as whisker ceramics
 - Best grade for high-speed milling

Work Materials

- Inco 718 • Inco 625
- Waspaloy • Udimet 720



SX3

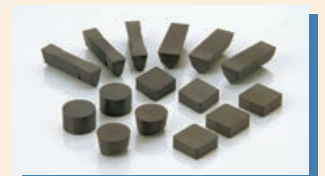
- **Features**
 - Excellent wear resistance and toughness.
 - Wide range of HRSA machining applications: Roughing with scale - semi finishing turning.
 - Able to machine even the newest generation of HRSA work materials (like Rene) as well as most common HRSA materials; such as Inconel 718.

Work Materials

- Inco 718 • 718 Plus • Inco 625
- Powdered metal
- Rene



SX5



- **Features**
 - Best grade for scale and interruptions
 - Best grade for machining high-cobalt alloys

Work Materials

- Waspaloy • Udimet 720
- 718 Plus • Rene 41

SX9



- **Features**
 - Extreme toughness makes higher feed and heavier DOC machining possible
 - Best grade for machining Inco 718 with scale

Work Materials

- Inco 718 • Inco 706
- Inco 713 • Rene

SiAlON - Workhorse

- Durable for scale to semi-finish machining