



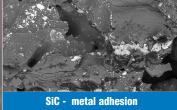


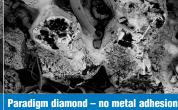
AEROSPACE





DIAMOND WHEELS FOR HARD-TO-GRIND AEROSPACE MATERIALS





THE PARADIGM SHIFT

Reduced metal adhesion on cutting edges when grinding TiAl:

- Cooler grinding with reduced friction
- Lower specific energy
- Less opportunity for part damage
- Increased parts per dress

FEATURES & BENEFITS

- Diamond abrasive reduces metal adhesion when grinding TiAl resulting in lower grinding power and specific energy
- Up to 46% natural porosity, enables free-cutting
- · High thermal conductivity allows for burn free grinding
- Can be trued and dressed on-machine in plunge or traverse modes
- Significantly higher stock removal rates, increased productivity and lower cost per part compared to SiC products

MADE-TO-ORDER AVAILABILITY

All Norton Winter Paradigm diamond wheels are made to your precise requirements.

Paradigm wheels for grinding aerospace materials are available in a variety of wheel shapes and sizes, and in continuous rim or segmented designs to meet your specific needs.

Wheel Speed: 6000 SFPM Traverse Rate: 30 IPM Depth of Cut: 0.05" Coolant: Water Based	GENERAL APPLICATION PARAMETERS	
Depth of Cut: 0.05"	Wheel Speed:	6000 SFPM
<u> </u>	Traverse Rate:	30 IPM
Coolant: Water Based	Depth of Cut:	0.05"
	Coolant:	Water Based

DIAMOND STARTING SPECIFICATIONS FOR TIAL AND CMC

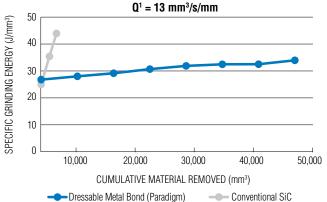
SD220-C168-P100X

NORTON WINTER SOLUTIONS FOR TRUING AND DRESSING PARADIGM WHEELS

Move from dress per part, to parts per dress. Paradigm wheels can be trued and dressed online using one of these 3 technologies :

- Reverse-plated diamond form rolls with CVD reinforcement
- Infiltrated diamond form rolls with high diamond concentration (CVD reinforcement optional)
- BPR dressing disc with CVD reinforcement for traverse dressing Contact us to determine the correct specification.

SPECIFIC GRINDING ENERGY PROGRESSION



Grind TiAl with low specific energy and much higher stock removal per dress compared to SiC.



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