



# SUPERABRASIVES

CBN AND DIAMOND PRODUCTS

## *MAXIMIZER VITRIFIED CBN FOR ANGLE HEAD*

For over 30 years, SuperAbrasives has focused on providing our customers with top quality, high performance products all while delivering a high level of responsiveness and customer service. We pride ourselves on our Continuous Improvement Program and effectively providing our customers with the most cost-efficient solutions for the job.

**What can we do for your business?** Help bring your grinding processes to the next level while lowering your grinding costs!

### MAXIMIZER CBN VITRIFIED PRODUCTS

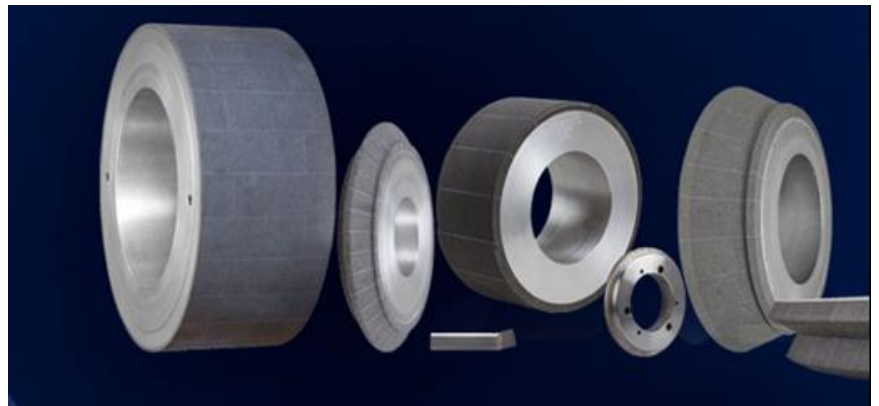
The Maximizer product line includes vitrified CBN grinding wheels designed for use in both rotary and single point technology dressing applications. The unique characteristics of this bond structure produce a product that is flexible and versatile allowing for seamless integration into Job Shop, Tool Room and Production run environments.

### TECHNICAL SUPPORT AND CUSTOM SERVICES

#### Application Support

At SuperAbrasives we also provide application support to our customers by working with you to optimize your grinding process. We use the following steps to walk through your applications to achieve the success you require.

- Application Evaluation
- Application Analysis
- Application Recommendations
- Product Development
- Product Implementation



If you would like to learn more, please call our Application Specialists at 248-348-7670 or email us at [sales@superabrasives.com](mailto:sales@superabrasives.com).





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## *MAXIMIZER GRINDING CASE STUDY - ANGLE HEAD*

### ANGLE HEAD GRINDING APPLICATION

Machine: Okuma Angle Head Grinding

Stock: 0.0265" Radial

Finish Requirement: 20 Ra

Wheel Size: 21" OD Style: 1V1

Wheel Cutting Velocity: 8,168 SFPM

Coolant: Synthetic



### TOOL LIFE OF INCUMBENT WHEEL VS SUPERABRASIVES WHEEL:

<u>PARAMETERS</u>	INCUMBENT WHEEL	<u>SUPERABRASIVES WHEEL</u>
Parts per dress	10 parts	<b>75 PPD</b>
Cycle Time	70.5 Seconds	<b>44.4 Seconds</b>
Annual Wheel Usage	20 Wheels	<b>2.1 Wheels</b>
Total parts per Wheel	10,000	<b>93,750 parts</b>
CPU	\$1.67	<b>\$1.00</b>

### ADDITIONAL SAVINGS:

- Increase in productivity by 40%
- Annual Savings:  $\$0.67 \times 200,000(\text{parts}) = \$134,000.00$

