

# NEW GENERATION AND TECHNOLOGY!!!

## HYBRID BOND Diamond Dicing Blades with SMART CUT technology

**NEW**



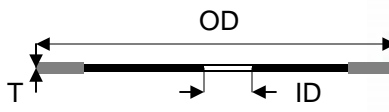
Continuous Rim



Different Product  
Different Company  
Different Technology

### HYBRID BOND Diamond Dicing Blade

**HI-FI** (HYBRID) hubless style diamond dicing blades are some of the thinnest, smooth cutting, and long lasting blades available today. Manufactured utilizing **SMART CUT** technology, HI-FI series is a NEW GENERATION type of dicing blades, that are completely impregnated with diamonds. This state-of-the-art technology combines the smooth finish you expect from a resin bond and long life you will find only in a metal bond.



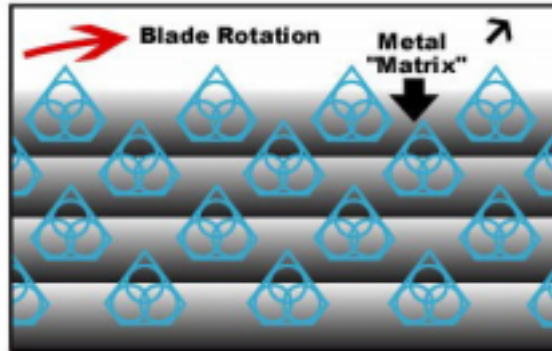
### How Smart Cut Works?

**Used on:** All popular dicing saws and surface grinders

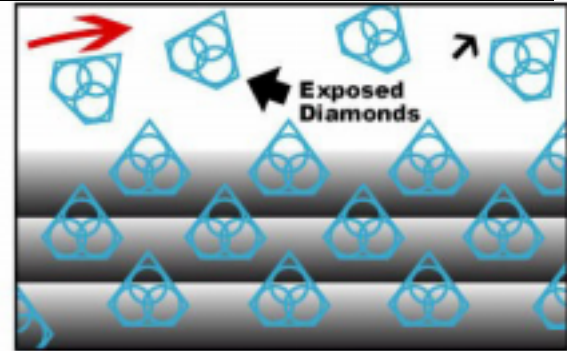
### ADVANTAGES

- + More Universal
- + Cuts Faster
- + Cuts Smoother
- + Lasts Longer
- + Less Chipping
- + Saves Material
- + Minimal Maintenance
- + Electro conductive
- + Less Heat Generation

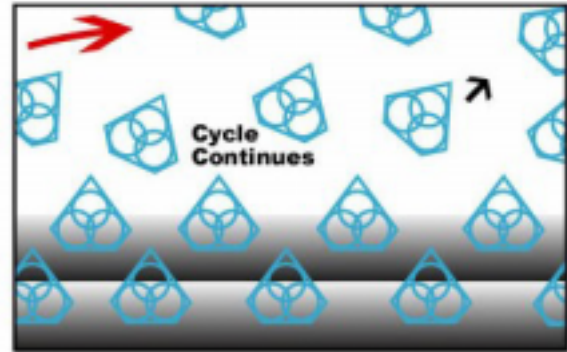
The sharpest and finest quality DeBeers diamonds that go into a Smart Cut Diamond Bond, immediately penetrate into the material, grinding and polishing as they cut.



Diamonds are activated only at the exposed layer. As diamonds layer begin to wear out, diamonds in a new diamond layer are immediately activated, substituting the already used up diamond layer. The Smart Cut Diamond Bond makes sure every diamond is in the right place and at the right time, working where you need it most.



The newly exposed diamonds don't effect diamonds already working on the material. Unlike many other diamond bonds, diamonds in a Smart Cut remain sharp and grow sharper with each cut. Prolonging product life and consistent performance.



This advanced formulated open diamond bond design insures minimal chipping, fast cut, constant speed of cut, minimal cutting noise, and most important of all minimal loss of precious material.

Works like a resin bond, Lasts like a metal bond

Item #	Outside Diameter (OD)	Thickness (T)	Inside Diameter (ID)	Grit Size (G)	Grit Size (µkm)
*HI-FIG3000-1002	2-1/4" (56 mm)	0.002" (0.050 mm)	1.575" (40 mm)	3,000	(5-7)
*HI-FIG600-1004	2-1/4" (56 mm)	0.004" (0.100 mm)	1.575" (40 mm)	400	(40-60)
*HI-FIG300-1008	2-1/4" (56 mm)	0.008" (0.200 mm)	1.575" (40 mm)	300	(40-60)
*HI-FIG325-1010	2-1/4" (56 mm)	0.010" (0.254 mm)	1.575" (40 mm)	325	(40-50)
*HI-FIG150-1020	2-1/4" (56 mm)	0.020" (0.500 mm)	1.575" (40 mm)	150	(100-125)

**Application:** Synthetic BGA Materials, Sapphire, Ruby, Silicon, Fused Silica, Alumina, Ceramics, Quartz, Ferrites, Germanium and many other materials, Glass.

All sizes shown above are in stock and ready for same day delivery. Other sizes are available upon request. Please check for availability.

**Guarantee:** 100% Quality and Satisfaction is Guaranteed

**Try them risk**

**FREE**



# UKAM Industrial Superhard Tools

Division of LEL Diamond Tools International, Inc.

Diamond Tools

- Slicing
- Dicing
- Drilling

DIFFERENT PRODUCT  
DIFFERENT COMPANY  
DIFFERENT TECHNOLOGY

PEOPLE + EXPERIENCE + RESEARCH AND DEVELOPMENT +  
STATE OF THE ART TECHNOLOGY + DEDICATION

= RESULTS

## NEWS RELEASE

Date: October 16, 2001

For immediate release

**SMART CUT** technology, is a breakthrough: in manufacturing fully impregnated diamond dicing blades. We are able position and orient diamonds in the metal matrix to allow every diamond to participate in the cutting action. **SMART CUT** technology will redefine the standard in cutting.

**maximum cutting performance** – each diamond works like a small horse. Diamonds come in contact with the material in the right place and at the right time, working where you need them most. You get the maximum use out of diamond and bond.

**no glazing** – blade requires minimal dressing, the bond renews itself

**faster cutting action** – Dicing Blades manufactured utilizing this technology are much more aggressive than your ordinary blades. They cut faster, still leaving behind a smooth finish as you would expect from a resin bond.

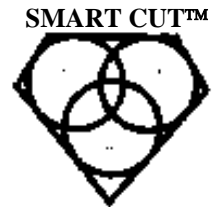
**longer lasting** - dicing blades manufactured utilizing SMART CUT technology, will outlast other metal (sintered), resin, and nickel bonded blades. Fully impregnated diamond dicing blades are more sturdy than blades manufactured with conventional technologies. Unlike many other resin or metal bonded blades, these blades will not dull and maintain its firm shape and roundness all the way through the blades life.

**superior coolant system** – these dicing blades are completely impregnated with diamonds. Diamonds absorb excessive heat and tension generated by repeated use, promoting consistency in cut cleanness and smoothness. You will notice the difference in the quality of the cut these blades leave behind.

There are other advantages of utilizing diamond dicing blades manufactured with the **SMART CUT** technology. The company feels, you will find it a significant breakthrough in the cutting field.

UKAM Industrial Superhard Tools – **TEAM**

THE NEXT  
GENERATION  
OF  
DIAMOND DICING  
BLADES



**ADVANCED TECHNOLOGY  
THAT REDEFINES THE  
STANDARD**

**UKAM Industrial Superhard Tools**

is one of the largest precision diamond tool manufacturers in the U.S. and Europe. Specializing in:

- Slicing
- Dicing
- Drilling & Accessories

With over 50 years of experience in manufacturing, research, and development. Following the belief "that there is always room for improvement", we continue to raise standards for the whole industry.

**Largest inventory in the U.S.**  
With over 4,000 slicing blades, hundreds of dicing blades, and 1,000 diamond drills, and in stock. You are sure to find the solution you are looking for in stock and ready for same day delivery. If you are not using one of our products, chances are you are paying too much.

**Expect MORE from your tools**



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