

**THIN KERF Diamond Blades**

**ELECTROPLATED (Nickel Bond) & Cubic Boron Nitride (CBN)**



**SMART CUT™** series Electroplated & CBN Thin Kerf Diamond Blades provide a fast, clean cut, and minimum loss of material. These blades will work on most materials from 4.0 to 9.5 on mohe's scale. Including ultra hard & expensive materials minimum loss of material counts the most. Its unique core, is made from **steel with memory**. No matter how much you bent the blade, it will return to its original shape. Blades are available from stock in several mesh sizes of synthetic diamond & cubic boron nitride (CBN).

Item #	Diameter	Core Thickness	Diamond Thickness	Arbor Size
29-4670W	4" (101.6mm)	.004"	.007"	5/8"
29-4671W	4" (101.6mm)	.004"	.007"	1/2"
29-4672W	4" (101.6mm)	.012"	.016"	5/8"
29-4673W	4" (101.6mm)	.012"	.016"	1/2"
29-4674W	5" (101.6mm)	.012"	.016"	5/8"
29-4675W	5" (101.6mm)	.012"	.016"	1/2"
29-4676W	5" (101.6mm)	.012"	.016"	5/8"
29-4677W	6" (152.4mm)	.006"	.009"	5/8"
29-4678W	6" (152.4mm)	.006"	.009"	1/2"
29-4679W	6" (152.4mm)	.025"	.032"	5/8"
29-46710W	6" (152.4mm)	.025"	.032"	1/2"
29-46711W	8" (203.2mm)	.012"	.016"	5/8"
29-46712W	8" (203.2mm)	.025"	.032"	5/8"
29-46713W	10" (254mm)	.015"	.019"	5/8"
29-46714W	10" (254mm)	.032"	.040"	5/8"

Electroplated Diamond Blades, have a single layer of electroplated diamond section or a single layer of CBN. The diamond grit is able to significantly protrude (stick out) above the bond surface, providing fast and aggressive material removal rate. Cutting performance however drops off fast, due to diamond wearing away at an increased rate.

Electroplated diamond blades are frequently used for dry cutting (when coolant cannot be used). Electroplated blades a particularly well suited for cutting thermosetting plastics, GRP, pre-sintered and pre-fired (green) materials, electro carbons, graphite, soft ferrites, farinaceous products, deep frozen fish, pones, pc boards, and etc.

Other Standard Arbor Sizes: 3/4", 1", 1 1/4", 20mm, and 30mm available.

We can make any arbor size (ID) you want.

Other Sizes and Thickness are available upon request.



**SMART CUT™** series High Precision Diamond Blades & Saws, insure the highest standards for cut quality and accuracy from material is being cut, to reducing secondary steps after the cutting completion.

**EXPECT MORE  
FROM YOUR TOOLS**



# UKAM Industrial Superhard Tools

Division of LEL Diamond Tools International, Inc.

25345 Avenue Stanford, Unit 211 Valencia, CA 91355 USA

Phone: (661) 257-2288 Fax: (661) 257-3833 www.ukam.com

+ Improve production rates + Improve production yields + Improve surface finish quality + Reduce material loss + Obtain more accurate tolerances

**= SUPERIOR RESULTS**

UKAM Industrial Superhard

Tools, Division of LEL

Diamond Tools

International, Inc. has

recently introduced a new

breakthrough: **SMART CUT™** technology in

manufacturing precision

diamond blades. This

technology allows us to

properly position and

orient the diamond inside

the metal matrix. Making

sure every diamond is in

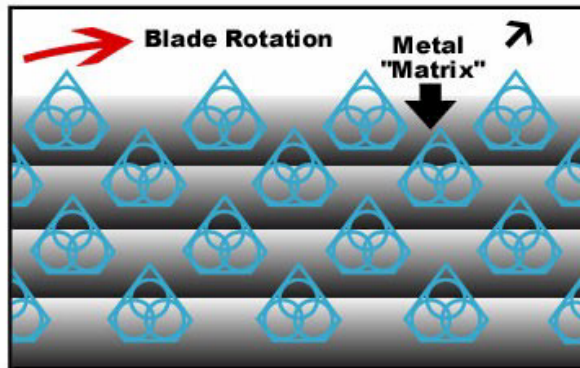
the right place and at the

right time, working where

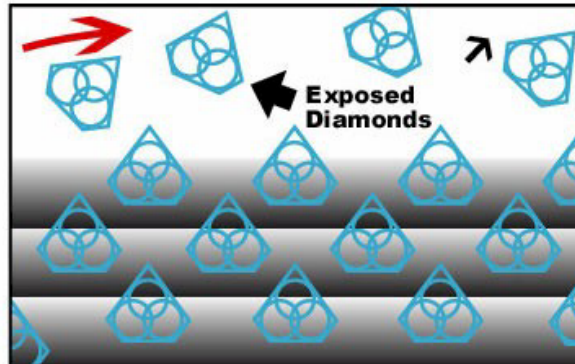
you need it most. (Please, see diagram ....)

## How Smart Cut Works?

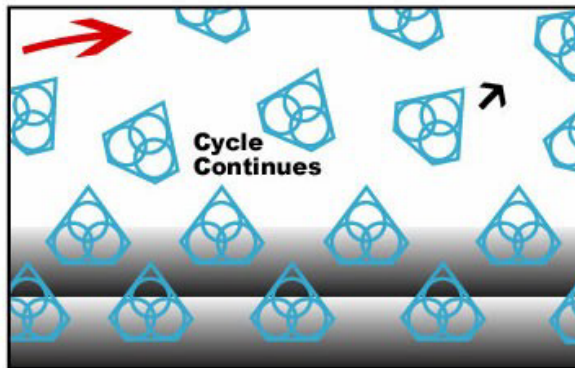
The sharpest and finest quality DeBeers diamonds that go into a Smart Cut Diamond Bond, immediately penetrate into the material, grinding and polishing as they cut.



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.

**maximum cutting performance** – each diamond works like a small work 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. Some unique benefits & advantages of **SMART CUT™** technology:

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

**faster cutting action** - Diamond blades manufactured utilizing this technology are much more aggressive than your conventional blades. They cut faster, still leaving behind a smooth finish.

**more universal & longer lasting** - These diamond blades are designed to work on virtually any material you can find. You can cut very hard materials, than switch to cutting very soft materials and the blade will maintain the same consistent performance. 7mm diamond depth allows the blade to last **80% to 40% longer** on the hardest materials



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## HOW TO ORDER



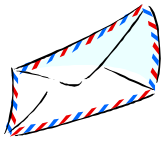
### Order by Phone:

Call: (661) 257-2288 Monday through Friday 8:00 a.m. to 5:30 p.m.



### Order by Fax:

Fax: (661) 257-3833, available 24 hours a day.



### Order by Mail:

send your orders to: 25345 Avenue Stanford, Unit 211 Valencia, CA 91355 U.S.A.

please include product item number, description, and payment.

### Accepted forms of payment



We accept Visa, Mastercard, and American Express. California Residents add 8.25% sales tax.

**Guarantee:** The quality of our products are 100% guaranteed.

### International Orders



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Phone: (661) 257-2288 Fax: (661) 257-3833 [www.ukam.com](http://www.ukam.com)

Mail, fax, or e-mail orders to UKAM Industrial Superhard Tools. A confirmation of receipt will be forwarded to buyer immediately. If a confirmation of receipt is not received, buyer should resubmit the purchase order to

UKAM Industrial Superhard Tools in order to insure processing of the order. UKAM Industrial Superhard Tools will calculate and fax or e-mail the subtotal of the merchandise and comparison shipping charges when the order is prepared to be shipped. Buyer should then choose the preferred means of shipping, add shipping costs to the subtotal of estimate and notify UKAM Industrial Superhard Tools by phone, fax, or e-mail, regarding preferred shipping and chosen method of payment.

## **Whatever your goal or objective**

**UKAM Industrial can help you get there faster.**

### **Largest Inventory & Selection**

with over 2,000 different types & specifications of precision diamond products available from inventory. You are sure to find what you are looking for in stock and ready for same day delivery.

- Over 4,000 Precision Diamond Blades in stock
- Over 1,000 Diamond Drills & Drilling Accessories in stock
- Hundreds of Diamond Dicing Blades in stock

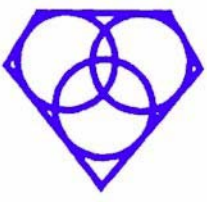
If we don't have it in stock. Chances are no body will. Call: ( 6 6 1 ) 2 5 7 - 2 2 8 8

### **Manufacturers Direct Prices**

SMART CUT precision diamond products offer the best value & performance. In most cases UKAM Industrial Superhard Tools can meet and beat a competitors price on products of same quality & performance. If you are not using one of our products, chances are you are paying to much.

### **Research and Development**

UKAM Industrial Superhard Tools has over 50 years of experience in manufacturing, research, and development of new and advanced technologies to keep up with your increasing challenges.



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## **Technical Support**

We are committed to helping you improve and optimize your cutting and drilling operation to the outmost level of efficiency. If you have a special application, that requires a custom solution. Send us a piece of your material, and we will analyze it in our laboratory and design a bond formulation for your particular requirement.

You can rely on us and our group of authorized application engineers to assist you in your cutting requirements, answer any questions, and provide you with the personal attention you deserve. Please, feel free to contact our Technical Support Team at Phone: (661) 257-2288 from Monday to Friday 8:00 to 6:00 p.m. PST.

## **Incredible Value**

UKAM Industrial Superhard Tools offers you real value and savings. Our Precision Diamond Products manufactured utilizing **SMART CUT** technology will

- save you money
- save you time
- save you material
- improve overall performance

Try a precision Diamond Product with SMART CUT technology TODAY!!!

## **Custom Manufacturing**

Can't find what you are looking for? Let us know. We can manufacture it for you or redesign our products to better fit your needs, standards, specifications, and requests.

## **New Generation & Technology**

UKAM Industrial Superhard Tools is a LEADER in developing new products. We are constantly engaged in Research & Development to better meet your needs and expectations. And continue to raise standards for the whole industry. With UKAM you can rest assured you're getting the latest, cutting edge products you deserve.