



UKAM Industrial Superhard Tools

Division of LEL Diamond Tools International, Inc.

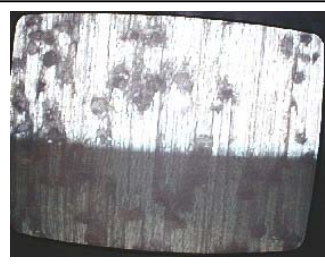
25345 Avenue Stanford, Unit 211 Valencia, CA 91355 USA

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

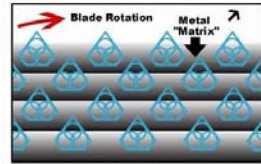
GENERAL PURPOSE DIAMOND BLADES NEW GENERATION (**METAL BOND**) - **SMART CUT™**



SMART CUT™ Series General Purpose Sintered (Metal Bond) Diamond Blades are the highest overall performance blades available today. Manufactured utilizing **SMART CUT™** technology, advanced technology that redefines standard in cutting. These blades are designed to provide aggressive, fast, and rough cutting of a large variety of advanced and composite materials. Where loss of material is not an important factor. Available from stock in 80/100 and 60/80 grit. Other diamond concentrations, mesh sizes, bond hardnesses, and inside diameters can be manufactured upon request.

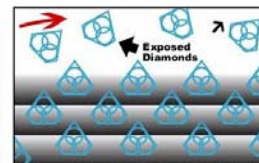


The sharpest and finest quality DeBeers diamonds that go into a Smart Cut Diamond Bond, immediately penetrate into the material, grinding and polishing as they cut.

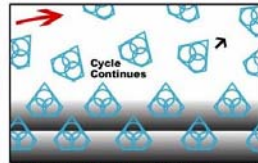


Diamonds are activated only at the exposed layer. As diamonds layer begin to wear out, diamonds in a new diamond layer are immediately activated, substituting the already used up diamond layer. The Smart Cut Diamond Bond makes sure every diamond is in the right place and at the right time, working where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

How SMART CUT Works?

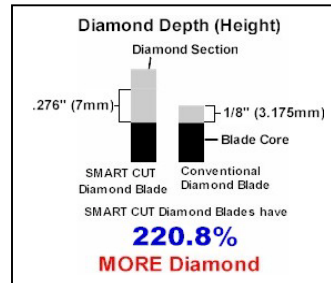


The newly exposed diamonds don't effect diamonds already working on the material. Unlike many other diamond bonds, diamonds in a Smart Cut remain sharp and grow sharper with each cut. Prolonging product life and consistent performance.



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.

Item No.	Diameter	Rim Width	Rim Depth	Arbor Size	Max RPM
23-2000W	3-3/8" (85mm)	.050"	.20"	20mm-15mm B	15,000
23-2003W	4" (102mm)	.050"	.20"	20mm-5/8" B	13,700
23-2005W	6" (85mm)	.060"	.276"	5/8"	10,200
23-2006W	7" (178mm)	.060"	.276"	5/8"	8,730
23-2009W	8" (203mm)	.060"	.276"	5/8"	7,640
23-2011W	10" (250mm)	.060"	.276"	5/8"	6,115
23-2014W	12" (300mm)	.087"	.276"	60mm-1" B	5,095
23-2016W	14" (350mm)	.095"	.276"	60mm-1" B	4,365
23-2018W	16" (400mm)	.095"	.276"	60mm-1" B	2,268



All sizes are in stock and ready for same day delivery.

Other sizes, thickness, & arbor sizes are available upon request. Please check for availability.

Arbor Sizes (ID): 1/2", 5/8", 1", 1-1/4". We can make any arbor size you want.

APPLICATION:

- + Advanced Ceramics
- + Composites
- + Glass
- + High Metallic Content Materials
- + Natural Stone
- + Precious Stone
- + Ultra Hard Materials

Equipment Used On:

- Tile Saws
- Abrasive cut-off saws
- Surface Grinders
- Precision Cut off Saws
- And other equipment

DM: Diamond Knock out Arbor - **B:** Bush Ring - **RPM:** Maximum Safe Speed

Maximum Blade Cutting Depths and Operating Speeds

Blade Diameter	Cutting Depth	Recommended RPM	Maximum Safe RPM
6"	1-3/4"	6,048	10,185
7"	2-1/4"	5,184	8,730
8"	2-3/4"	4,536	7,640
9"	3-1/4"	4,032	6,790
10"	3-3/4"	3,629	6,115

ADVANTAGES:

- + More Universal
- + More Aggressive
- + Cuts Faster
- + Lasts Longer
- + Straight Cut
- + Easier to Use
- + Minimal Dressing
- + SAVE MONEY!!!**



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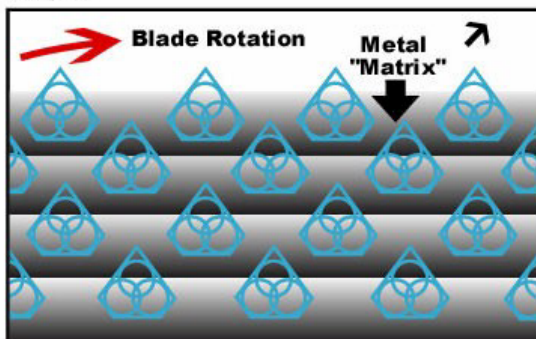
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UKAM Industrial Superhard Tools, Division of LEL Diamond Tools International, Inc. has recently introduced a new breakthrough: **SMART CUT™** technology in manufacturing precision diamond blades. This technology allows us to properly position and orient 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)

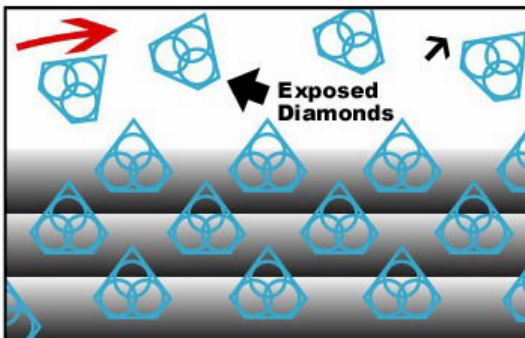
maximum cutting performance – each diamond works like a small work horse. Diamonds come in contact with the material in the right place and at the right time, working where you need them most. You get the maximum use out of diamond and bond. Some unique benefits & advantages of **SMART CUT™** technology:

How Smart Cut Works?

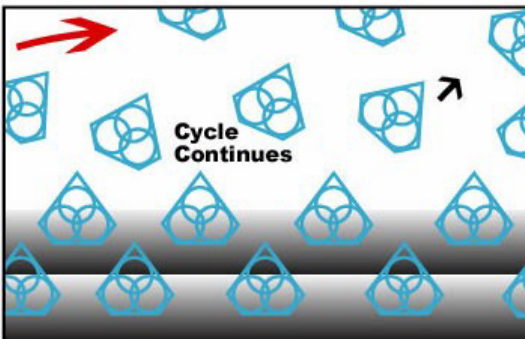
The sharpest and finest quality DeBeers diamonds that go into a Smart Cut Diamond Bond, immediately penetrate into the material, grinding and polishing as they cut.



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.

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.

superior coolant system - these blades are designed to cut with or without oil. We feel it is more preferable to the user to use water as a coolant. Oil does not a proper coolant for this procedure, as most other manufacturers would suggest. Water is a true organic coolant, witch does not leave the specimen being cut oily or contaminated.

IT'S TIME YOU EXPECT MORE FROM YOUR TOOLS.



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HOW TO ORDER



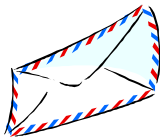
Order by Phone:

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.

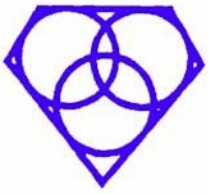
Accepted forms of payment



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

sales tax.

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



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International Orders

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



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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.

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.