

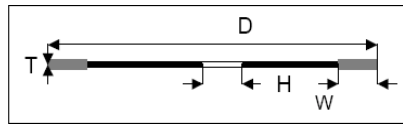
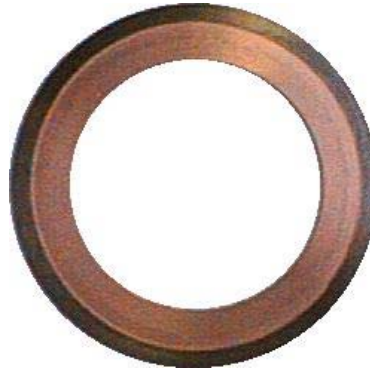


UKAM Industrial Superhard Tools Division of LEL Diamond Tools International, Inc.
 25345 Avenue Stanford, Unit 211 Valencia, CA 91355 USA
 Phone: (661) 257-2288 Fax: (661) 257-3833 www.ukam.com

+ Improve production rates + Improve production yields + Improve surface finish quality + Reduce material loss + Obtain more accurate tolerances = **SUPERIOR RESULTS**

Precision Diamond Blades NEW GENERATION Sintered (Metal Bond)

SMART CUT™ series precision tolerance diamond blades are designed for precision slicing, slotting, grooving, cutting of a full range of metallic and non metallic materials. Manufactured utilizing **SMART CUT™** technology, these blades will give you the best performance and price per cut. Providing consistent results you can count on everyday. All blades are available from inventory in different diamond concentrations, grit sizes, bond formulations, and arbor sizes. We will work with you to determine the right parameters for your specific material / application.



1A1R

Standard Tolerances

OD Tolerances +.050/- .000 Arbor
 Hole Tolerances +.002/- .000 Rim
 Thickness +.003/- .003 Core
 Thickness +.005/- .005.



Diamonds Oriented in Matrix



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.

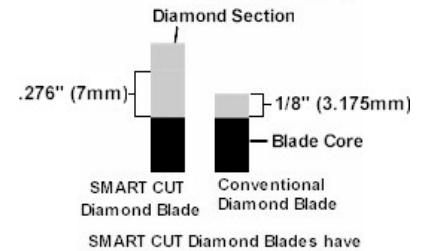
Equipment Used On:

- K & S (Micro Swiss)
- MTI (Manufacturing Technology Inc.)
- Disco
- ITI (Industrial Tool Inc.)
- Meyer-Burger
- Thermocarbin
- Standard Surface Grinders
- **SMART CUT™ / UKAM Diamond Saws**
- Precision Cut Off Saws
- Diamond Wafering / Sectioning Saws and many others

Applications / Materials:

- Advanced Ceramics
- Composites
- Glass
- Quartz
- Metallography
- Photonics / Optics
- Precious Stone
- Semiconductor
- Many Others

Diamond Depth (Height)



SMART CUT Diamond Blades have **220.8% MORE Diamond**

Precision Diamond Saws for R & D and Production





UKAM Industrial Superhard Tools

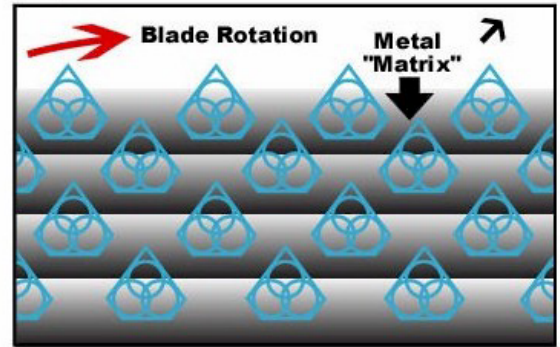
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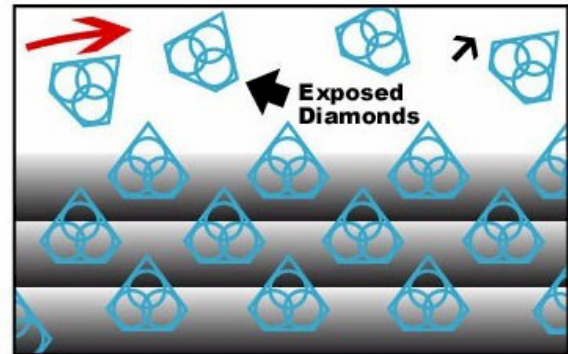
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Item #	Diameter	Rim Width	Rim Depth
23-4668PA	3" (75mm)	.010" (0.28mm)	1/8"
23-4669PA	3" (75mm)	.015" (0.37mm)	1/8"
23-4670PA	4" (101.6mm)	.014" (0.35mm)	.20" (5mm)
23-4671PA	4" (101.6mm)	.020" (0.5mm)	.20" (5mm)
23-4672PA	5" (125mm)	.014" (0.35mm)	.20" (5mm)
23-4673PA	6" (152.4mm)	.014" (0.35mm)	.20" (5mm)
23-4674PA	6" (152.4mm)	.020" (0.5mm)	.276" (7mm)
23-4675PA	6" (152.4mm)	.032" (0.8mm)	.276" (7mm)
23-4678PA	8" (203.2mm)	.025" (0.6mm)	.276" (7mm)
23-4679PA	8" (203.2mm)	.032" (0.8mm)	.276" (7mm)
23-4711PA	10" (254mm)	.032" (0.8mm)	.276" (7mm)
23-4712PA	10" (254mm)	.040" (1.0mm)	.276" (7mm)
23-4716PA	12" (300mm)	.0512" (1.3mm)	.276" (7mm)
23-4717PA	14" (350mm)	.0512" (1.3mm)	.276" (7mm)
23-4718PA	16" (400mm)	.0512" (1.0mm)	.276" (7mm)

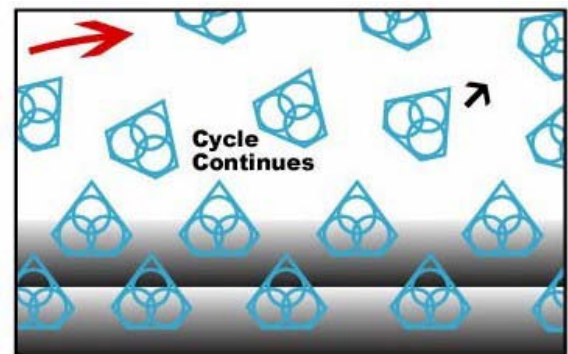
The sharpest and finest quality DeBeers diamonds that go into a Smart Cut Diamond Bond, immediately penetrate into the material, grinding and polishing as they cut.



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.

Largest Inventory & Most competitive Prices in the U.S. We will beat any competitors written price quote for the same quality product

Arbor Size: We can make any arbor size you need.

Other Sizes, Thickness, & Specifications are available upon request.

Guarantee: 100% Quality and Satisfaction is Guaranteed.

ADVANTAGES:

- + More Universal
- + Cuts Faster
- + Lasts Longer
- + Minimal Chipping
- + More Precision
- + Easier to Use
- + Minimal Dressing
- + **SAVE MONEY!!!**

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:



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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, then 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.

More sturdy alloy core – made from very durable proprietary alloy steel core. Designed to withstand heavy use and exploitation in a wide variety of difficult environments and materials. You can expect less blade wreckage and blade walking, due to loss of slicing blade core tension.

IT'S TIME YOU EXPECT MORE FROM YOUR TOOLS.

HOW TO ORDER



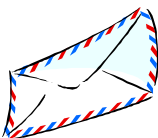
Order by Phone:

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:



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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

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.



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- 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.

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



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- 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.