



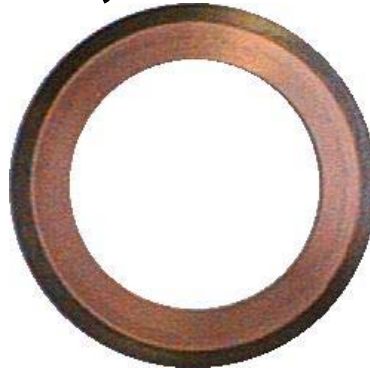
UKAM Industrial Superhard Tools Division of LEL Diamond Tools International, Inc.
 25345 Avenue Stanford, Unit 211 Valencia, CA 91355 USA
 Phone: (661) 257-2288 Fax: (661) 257-3833 www.ukam.com

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

Precision Diamond Blades (Metal Bonded) & CBN

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 made to fit your specific material, application, and surface finish requirements. We will work with you to determine your needs, and develop the right bond formulation, concentration, and grit sizes.

**1A1R, 1A1,
 1A8, 1A8S,
 1E8, & others**



Standard Tolerances

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

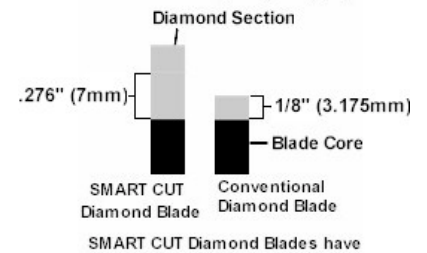
Special Tolerances

OD Tolerances +.050/.000 Arbor
 Hole Tolerance +.001/- .000 Rim
 Thickness +.002/- .001 Core
 Thickness: +.001/- .001



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.

Diamond Depth (Height)



220.8%
MORE Diamond

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

Precision Diamond Saws for R & D and Production



Item No.	Diameter	Blade Thickness	Diamond Depth	Item No.	Diameter	Blade Thickness	Diamond Depth
93-1007	2"	.020"	1/8"	93-1160	2"	.012"	1/8"
93-1008	2"	.025"	1/8"	93-1161	2"	.015"	1/8"
93-1009	2"	.030"	1/8"	93-1162	2"	.020"	1/8"
93-1010	2"	.035"	1/8"	93-1163	2"	.025"	1/8"
93-1011	2"	.040"	1/8"	93-1164	2"	.030"	1/8"
93-1012	2"	.045"	1/8"	93-1165	2"	.035"	1/8"
93-1013	2"	.050"	1/8"	93-1166	2"	.040"	1/8"
93-1014	2"	.062"	1/8"	93-1167	2"	.045"	1/8"
93-1015	3"	.020"	1/16"	93-1168	2"	.050"	1/16"
93-1016	3"	.025"	1/16"	93-1169	2"	.062"	1/16"
93-1017	3"	.030"	1/16"	93-1170	3"	.010"	1/16"
93-1018	3"	.035"	1/16"	93-1171	3"	.012"	1/16"
93-1019	3"	.040"	1/16"	93-1172	3"	.015"	1/16"
93-1020	3"	.045"	1/16"	93-1173	3"	.018"	1/16"
93-1021	3"	.050"	1/16"	93-1174	3"	.020"	1/16"
93-1022	3"	.062"	1/16"	93-1175	3"	.025"	1/16"
93-1023	4"	.020"	1/16"	93-1176	3"	.030"	1/16"
93-1024	4"	.025"	1/16"	93-1177	3"	.040"	1/16"
93-1025	4"	.030"	1/16"	93-1178	3"	.045"	1/16"
93-1026	4"	.035"	1/16"	93-1179	3"	.050"	1/16"
93-1027	4"	.040"	1/16"	93-1180	3"	.062"	1/16"
93-1028	4"	.050"	1/16"	93-1181	3"	.012"	1/8"
93-1029	4"	.062"	1/16"	93-1182	3"	.015"	1/8"
93-1030	4"	.020"	1/8"	93-1183	3"	.018"	1/8"
93-1031	4"	.025"	1/8"	93-1184	3"	.020"	1/8"
93-1032	4"	.030"	1/8"	93-1185	3"	.025"	1/8"
93-1033	4"	.035"	1/8"	93-1186	3"	.030"	1/8"
93-1034	4"	.040"	1/8"	93-1187	3"	.040"	1/8"
93-1035	4"	.045"	1/8"	93-1188	3"	.045"	1/8"
93-1036	4"	.050"	1/8"	93-1189	3"	.050"	1/8"
93-1037	4"	.055"	1/8"	93-1190	3"	.062"	1/8"
93-1038	4"	.062"	1/8"	93-1191	4"	.010"	1/16"

93-1039	5"	.020"	1/16"	93-1192	4"	.012"	1/16"
93-1040	5"	.025"	1/16"	93-1193	4"	.015"	1/16"
93-1041	5"	.030"	1/16"	93-1194	4"	.018"	1/16"
93-1042	5"	.035"	1/16"	93-1195	4"	.020"	1/16"
93-1043	5"	.040"	1/16"	93-1196	4"	.025"	1/16"
93-1044	5"	.045"	1/16"	93-1197	4"	.030"	1/16"
93-1045	5"	.050"	1/16"	93-1198	4"	.035"	1/16"
93-1046	5"	.055"	1/16"	93-1199	4"	.040"	1/16"
93-1047	5"	.062"	1/16"	93-1200	4"	.050"	1/16"
93-1048	5"	.020"	1/8"	93-1201	4"	.062"	1/16"
93-1049	5"	.025"	1/8"	93-1202	4"	.012"	1/8"
93-1050	5"	.030"	1/8"	93-1203	4"	.015"	1/8"
93-1051	5"	.035"	1/8"	93-1204	4"	.017"	1/8"
93-1052	5"	.040"	1/8"	93-1205	4"	.020"	1/8"
93-1053	5"	.045"	1/8"	93-1206	4"	.025"	1/8"
93-1054	5"	.050"	1/8"	93-1207	4"	.030"	1/8"
93-1055	5"	.055"	1/8"	93-1208	4"	.035"	1/8"
93-1056	5"	.062"	1/8"	93-1209	4"	.040"	1/8"
93-1057	5"	.070"	1/8"	93-1210	4"	.050"	1/8"
93-1058	6"	.020"	1/16"	93-1211	4"	.062"	1/8"
93-1059	6"	.025"	1/16"	93-1212	5"	.010"	1/16"
93-1060	6"	.030"	1/16"	93-1213	5"	.015"	1/16"
93-1061	6"	.035"	1/16"	93-1214	5"	.020"	1/16"
93-1062	6"	.040"	1/16"	93-1215	5"	.025"	1/16"
93-1063	6"	.045"	1/16"	93-1216	5"	.030"	1/16"
93-1064	6"	.050"	1/16"	93-1217	5"	.035"	1/16"
93-1065	6"	.062"	1/16"	93-1218	5"	.040"	1/16"
93-1066	6"	.020"	1/8"	93-1219	5"	.045"	1/16"
93-1067	6"	.025"	1/8"	93-1220	5"	.050"	1/16"
93-1068	6"	.030"	1/8"	93-1221	5"	.055"	1/16"
93-1069	6"	.035"	1/8"	93-1222	5"	.062"	1/16"
93-1070	6"	.040"	1/8"	93-1223	5"	.070"	1/16"
93-1071	6"	.045"	1/8"	93-1224	5"	.012"	1/8"
93-1072	6"	.050"	1/8"	93-1213	5"	.015"	1/8"

93-1073	6"	.055"	1/8"	93-1214	5"	.020"	1/8"
93-1074	6"	.062"	1/8"	93-1215	5"	.025"	1/8"
93-1075	6"	.020"	1/4"	93-1216	5"	.030"	1/8"
93-1076	6"	.025"	1/4"	93-1217	5"	.035"	1/8"
93-1077	6"	.030"	1/4"	93-1218	5"	.040"	1/8"
93-1078	6"	.040"	1/4"	93-1219	5"	.045"	1/8"
93-1079	6"	.045"	1/4"	93-1220	5"	.050"	1/8"
93-1080	6"	.050"	1/4"	93-1221	5"	.055"	1/8"
93-1081	6"	.062"	1/4"	93-1222	5"	.062"	1/8"
93-1082	7"	.020"	1/16"	93-1223	5"	.070"	1/8"
93-1082	7"	.025"	1/16"	93-1224	6"	.010"	1/16"
93-1083	7"	.030"	1/16"	93-1225	6"	.015"	1/16"
93-1084	7"	.040"	1/16"	93-1226	6"	.020"	1/16"
93-1085	7"	.045"	1/16"	93-1227	6"	.025"	1/16"
93-1086	7"	.050"	1/16"	93-1228	6"	.030"	1/16"
93-1087	7"	.062"	1/16"	93-1229	6"	.040"	1/16"
93-1088	7"	.020"	1/8"	93-1230	6"	.045"	1/16"
93-1089	7"	.025"	1/8"	93-1231	6"	.050"	1/16"
93-1090	7"	.030"	1/8"	93-1232	6"	.062"	1/16"
93-1091	7"	.035"	1/8"	93-1233	6"	.015"	1/8"
93-1092	7"	.040"	1/8"	93-1234	6"	.018"	1/8"
93-1093	7"	.045"	1/8"	93-1235	6"	.020"	1/8"
93-1094	7"	.050"	1/8"	93-1236	6"	.025"	1/8"
93-1095	7"	.062"	1/8"	93-1237	6"	.030"	1/8"
93-1096	8"	.020"	1/16"	93-1238	6"	.040"	1/8"
93-1097	8"	.025"	1/16"	93-1239	6"	.045"	1/8"
93-1098	8"	.030"	1/16"	93-1240	6"	.050"	1/8"
93-1099	8"	.035"	1/16"	93-1241	6"	.062"	1/8"
93-1100	8"	.040"	1/16"	93-1242	6"	.020"	1/8"
93-1101	8"	.045"	1/16"	93-1243	6"	.025"	1/8"
93-1102	8"	.050"	1/16"	93-1244	6"	.030"	1/8"
93-1103	8"	.062"	1/16"	93-1245	6"	.040"	1/8"
93-1104	8"	.020"	1/8"	93-1246	6"	.045"	1/8"
93-1105	8"	.025"	1/8"	93-1247	6"	.050"	1/8"

93-1106	8"	.030"	1/8"	93-1248	6"	.062"	1/8"
93-1107	8"	.035"	1/8"	93-1249	6"	.020"	1/4"
93-1108	8"	.040"	1/8"	93-1250	6"	.025"	1/4"
93-1109	8"	.045"	1/8"	93-1251	6"	.030"	1/4"
93-1110	8"	.050"	1/8"	93-1252	6"	.040"	1/4"
93-1111	8"	.062"	1/8"	93-1253	6"	.045"	1/4"
93-1112	8"	.020"	1/4"	93-1254	6"	.050"	1/4"
93-1113	8"	.025"	1/4"	93-1255	6"	.062"	1/4"
93-1114	8"	.030"	1/4"	93-1256	7"	.020"	1/16"
93-1115	8"	.035"	1/4"	93-1257	7"	.025"	1/16"
93-1116	8"	.040"	1/4"	93-1258	7"	.030"	1/16"
93-1117	8"	.045"	1/4"	93-1259	7"	.040"	1/16"
93-1118	8"	.050"	1/4"	93-1260	7"	.045"	1/16"
93-1119	8"	.062"	1/4"	93-1261	7"	.050"	1/16"
93-1120	10"	.035"	1/8"	93-1262	7"	.062"	1/16"
93-1121	10"	.040"	1/8"	93-1263	7"	.020"	1/8"
93-1122	10"	.045"	1/8"	93-1264	7"	.025"	1/8"
93-1123	10"	.050"	1/8"	93-1265	7"	.030"	1/8"
93-1124	10"	.055"	1/8"	93-1266	7"	.035"	1/8"
93-1125	10"	.062"	1/8"	93-1267	7"	.040"	1/8"
93-1126	10"	.040"	3/16"	93-1268	7"	.045"	1/8"
93-1127	10"	.045"	3/16"	93-1269	7"	.050"	1/8"
93-1128	10"	.050"	3/16"	93-1270	7"	.062"	1/8"
93-1129	10"	.055"	3/16"	93-1271	8"	.020"	1/16"
93-1130	10"	.062"	3/16"	93-1272	8"	.025"	1/16"
93-1131	10"	.035"	1/4"	93-1273	8"	.030"	1/16"
93-1132	10"	.040"	1/4"	93-1274	8"	.035"	1/16"
93-1133	10"	.045"	1/4"	93-1275	8"	.040"	1/16"
93-1134	10"	.050"	1/4"	93-1276	8"	.045"	1/16"
93-1135	10"	.062"	1/4"	93-1277	8"	.050"	1/16"
93-1136	12"	.040"	1/8"	93-1278	8"	.062"	1/16"
93-1137	12"	.045"	1/8"	93-1279	8"	.020"	1/8"
93-1138	12"	.050"	1/8"	93-1280	8"	.025"	1/8"
93-1139	12"	.055"	1/8"	93-1281	8"	.030"	1/8"

93-1140	12"	.062"	1/8"	93-1282	8"	.035"	1/8"
93-1141	12"	.070"	1/8"	93-1283	8"	.040"	1/8"
93-1142	12"	.080"	1/8"	93-1284	8"	.045"	1/8"
93-1143	12"	.040"	1/4"	93-1285	8"	.050"	1/8"
93-1144	12"	.045"	1/4"	93-1286	8"	.062"	1/8"
93-1145	12"	.050"	1/4"	93-1287	8"	.020"	1/4"
93-1146	12"	.055"	1/4"	93-1288	8"	.025"	1/4"
93-1147	12"	.062"	1/4"	93-1289	8"	.030"	1/4"
93-1148	12"	.070"	1/4"	93-1290	8"	.035"	1/4"
93-1149	12"	.080"	1/4"	93-1291	8"	.040"	1/4"
93-1150	14"	.062"	1/8"	93-1292	8"	.045"	1/4"
93-1151	14"	.070"	1/8"	93-1293	8"	.050"	1/4"
93-1152	14"	.075"	1/8"	93-1294	8"	.062"	1/4"
93-1153	14"	.080"	1/8"	93-1295	10"	.035"	1/8"
93-1154	14"	.085"	1/8"	93-1296	10"	.040"	1/8"
93-1155	14"	.062"	1/4"	93-1297	10"	.045"	1/8"
93-1156	14"	.070"	1/4"	93-1298	10"	.050"	1/8"
93-1157	14"	.075"	1/4"	93-1299	10"	.055"	1/8"
93-1158	14"	.080"	1/4"	93-1300	10"	.062"	1/8"
93-1159	14"	.085"	1/4"	93-1301	10"	.040"	3/16"
93-1314	12"	.055"	1/8"	93-1302	10"	.045"	3/16"
93-1315	12"	.062"	1/8"	93-1303	10"	.050"	3/16"
93-1316	12"	.070"	1/8"	93-1304	10"	.055"	3/16"
93-1317	12"	.080"	1/8"	93-1305	10"	.062"	3/16"
93-1318	12"	.040"	1/4"	93-1306	10"	.035"	1/4"
93-1319	12"	.045"	1/4"	93-1307	10"	.040"	1/4"
93-1320	12"	.050"	1/4"	93-1308	10"	.045"	1/4"
93-1321	12"	.055"	1/4"	93-1309	10"	.050"	1/4"
93-1322	12"	.062"	1/4"	93-1310	10"	.062"	1/4"
93-1323	12"	.070"	1/4"	93-1311	12"	.040"	1/8"
93-1324	12"	.080"	1/4"	93-1312	12"	.045"	1/8"
93-1325	14"	.062"	1/8"	93-1313	12"	.050"	1/8"
93-1326	14"	.070"	1/8"				
93-1327	14"	.075"	1/8"				

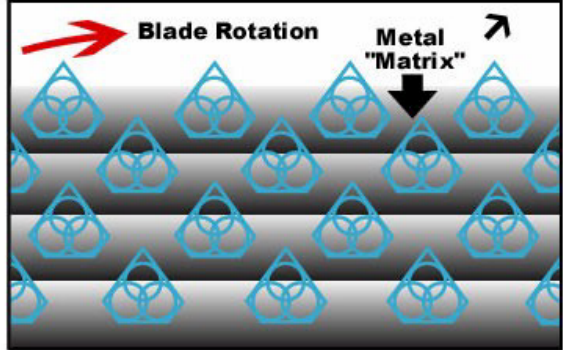
93-1328	14"	.080"	1/8"				
93-1329	14"	.085"	1/8"				
93-1330	14"	.062"	1/4"				
93-1331	14"	.070"	1/4"				
93-1332	14"	.075"	1/4"				
93-1333	14"	.080"	1/4"				
93-1334	14"	.085"	1/4"				

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

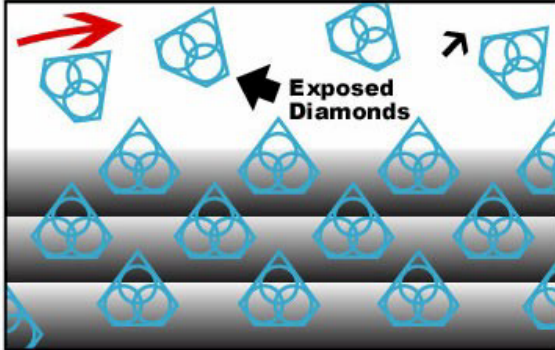
Arbor Size: We can make any arbor size you need.
Other Sizes, Thickness, & Specifications are available upon request.
Guarantee: 100% Quality and Satisfaction is Guaranteed.

How Smart Cut Works?

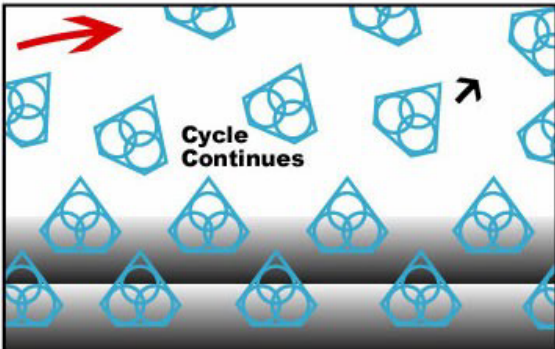
The sharpest and finest quality DeBeers diamonds that go into a Smart Cut Diamond Bond, immediately penetrate into the material, grinding and polishing as they cut.



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.

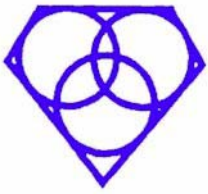
[UKAM Industrial Superhard Tools](#), Division of LEL Diamond Tools International, Inc. has recently introduced a new breakthrough: **SMART CUT™** technology in manufacturing precision diamond blades. This technology allows us to properly position and orient the diamond inside the metal matrix. Making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

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



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

HOW TO ORDER



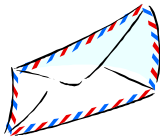
Order by Phone:

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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25345 Avenue Stanford, Unit 211 Valencia, CA 91355 USA
Phone: (661) 257-2288 Fax: (661) 257-3833 www.ukam.com

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

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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 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

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.