KNIGHT CARBIDE



PRODUCT GUIDE

Carbide Cutting Tools & Inserts

We'd like to start by thanking you for considering Knight Carbide for your carbide insert application. With fierce competition across the cutting tool industry both in distribution and manufacturing the importance of providing value has never been greater. For over 45 years Knight Carbide has produced thousands of unique inserts customized for specific materials and machining conditions. We're confident we can produce the OPTIMAL insert for YOU at a competitive price, thus allowing for maximized value and profit potential for everyone involved.

The following catalog is designed to demonstrate our capabilities. All of the items listed are items we commonly make and we use industry standard nomenclature and dimensions for reference. The goal of this format is to give a better understanding of what types of products we make so when the challenging applications or unique opportunities arise you are equipped to offer a value-added solution.

- Most items listed are made to order to your specifications with minimal lead time.

- No minimum quantity required. All items are quoted based on your requested usage. We will work with you to set up blanket orders with scheduled shipments to ensure the best possible price and to ensure we have stock on hand.

- Any grade, coating, edge prep or geometry changes can be made to your desired characteristics with minimal effect on cost or lead time. This includes but not limited to radius sizes, groove depths, chamfer sizes and clearance angles.

- If you don't see it listed. No worries! Knight Carbide is close to reaching 20,000 unique part SKU's. If it's carbide there's a good chance we can help you out. Not only do we look forward to the one of kind specials, we encourage you to send them to us!

- We offer a full line of ISO standard inserts. Pressed standards can typically ship within 2-3 business days. Please contact us for pricing and lead times for ground standards.

- Please inquire about our other products and services including but not limited to PCD/ CBN inserts, brazed tooling, wear parts, tool holders, milling cutters, design/ concept tooling and turn-key projects.

Our team is ready to assist you. If you have any questions or inquiries Please contact us at 586-598-4888 or sales@knightcarbide.com or your designated salesperson.

We look forward to working with you and appreciate you considering Knight Carbide for you cutting tool needs.

About Us



Bruce Kyle (left)
President
bkyle@knightcarbide.com

Chris Kyle (right)
Vice President
ckyle@knightcarbide.com

Excellence in Carbide Insert Manufacturing Since 1972

Knight Carbide is a cutting tool manufacturer founded in 1972 producing threading, grooving, and form tool carbide inserts. Within 10 years Knight Carbide developed a network of distributors to service customers across the United States.

In 1985 Knight became the first cutting tool manufacturer in the United States to purchase a CNC periphery and top and bottom grinders-expanding capabilities to include precision ground milling, turning and boring inserts. We continue to add in the latest technology for the production of carbide cutting tools. Our capabilities include CNC profile grinding, 3D modeling for 3D printing, 5 axis grinding and automatic visual digital inspection

Knight Carbide has earned a reputation for investing in its people and technology to produce world-class cutting tools. Knight's commitment to excellence and customer satisfaction will consistently prove our ability to serve customers with the superior quality, competitive pricing and fast turnaround we've provided since 1972.

Contact Us

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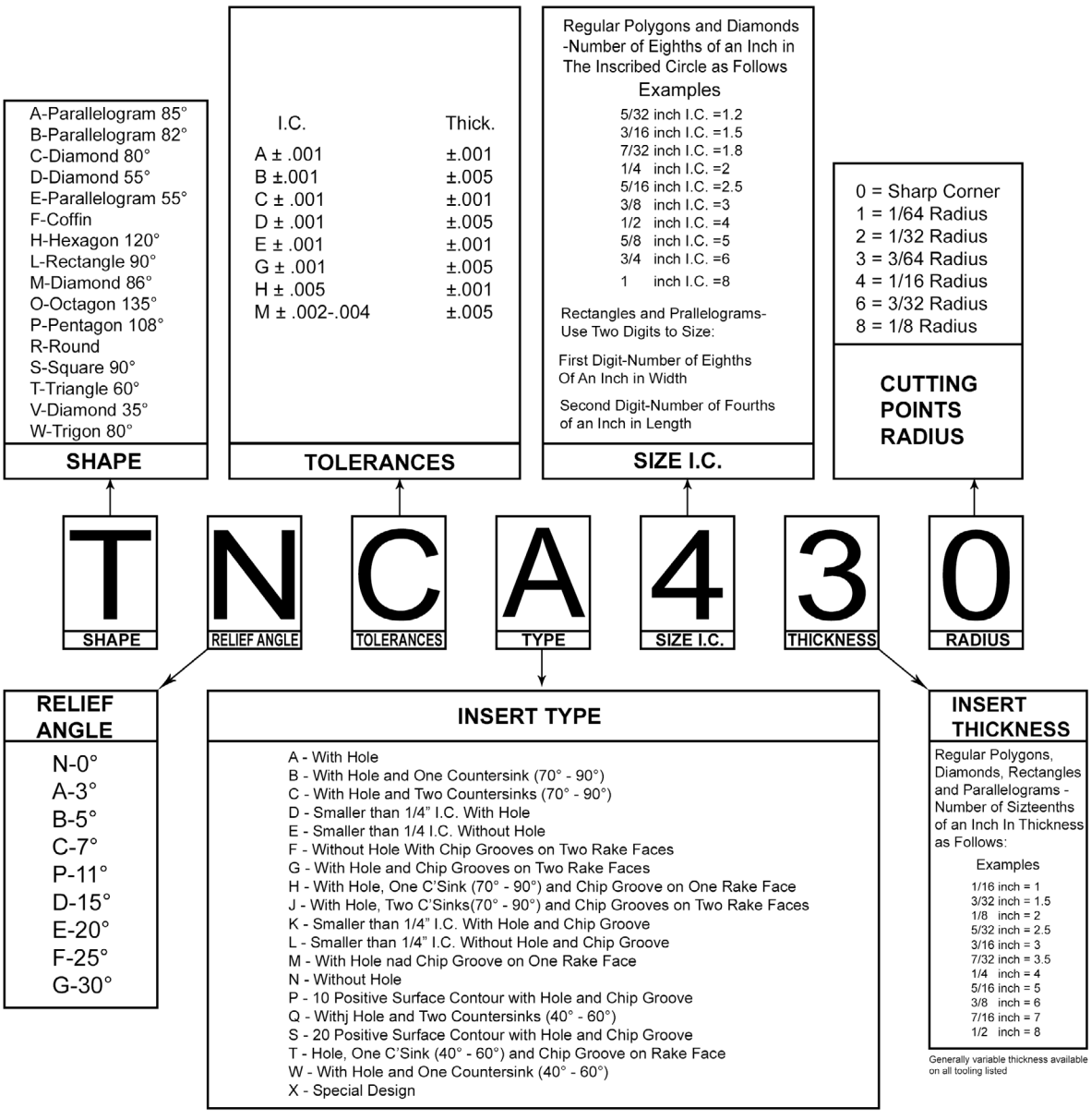
Carbide Grades

GRADE	ANSI	ISO	CO %	APPLICATION	MATERIAL CODES
K25K	C1/C5	K25	8.00	Non Ferrous, Turning, Milling, Rough Condition	K - CAST IRON/ALUMINUM
K30K	C1	K30	10.00	Low-Hardness Grey Cast Iron, Low-Tensile Steel Compressed Wood	M - HIGH TEMP MATERIAL
K20K	C2	K20	6.25	Grey Cast Iron, Non-Ferrous Metals, Copper, Brass, Aluminum	P - STEEL
K10K	C2/C3	K10	6.00	Grey Cast Iron, Hardened Steel, Silicon Aluminum Alloys, Copper Alloys, Plastics, Hard Rubber	W - WEAR
K30P	C5	P30	8.7	Steel, Steel Casting	
K45PM	C5	P45/ M45	12.50	Steel, Steel Casting with Sand Inclusion and Cavaties	
K35PM	C5	P35/ M35	10.10	Steel, Steel Casting, Austenitic Steel, High Temperature Resistant Alloys	
K30P	C5/C6	P30/ K30	5.50	Steel, Steel Casting, Malleable Case Iron with Long Chips	
K15W	WEAR		6.0-10.0	Wear Parts, Hot Flash Weld Removal	
K25K	C1/C2	K25	10.0	Cast Iron, Non-Ferrous and Non-Metalic Materials	

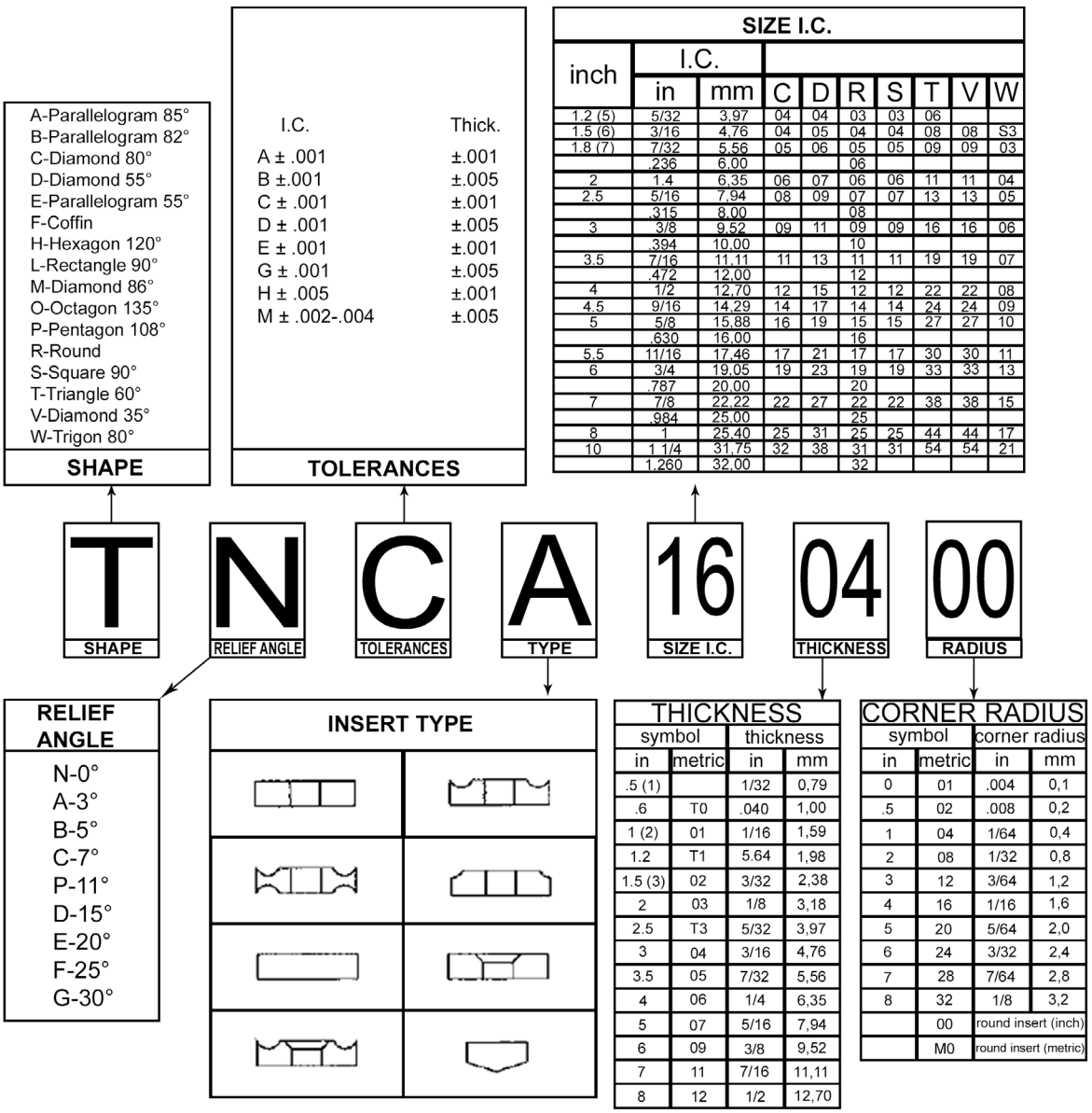
Coatings

CVD	PVD
D5 - TiN	E20 - TiN
D6 - TiC	E21 - TiCN
D7 - AL203	E22 - CrN
D8 - TiC/AL2O3/TiN	E23 - TiaLN <SINGLE>
D9 - TM	E24 - TiaLN <MULTI>
D10 - MM	E25 - ALCrN
	E26 - ALTiN
	E27 - TiSiN

ANSI Designations



ISO Designations



SIZE I.C.									
inch	I.C.								
	in	mm	C	D	R	S	T	V	W
1.2 (5)	5/32	3,97	04	04	03	03	06		
1.5 (6)	3/16	4,76	04	05	04	04	08	08	S3
1.8 (7)	7/32	5,56	05	06	05	05	09	09	03
	.236	6,00			06				
2	1.4	6,35	06	07	06	06	11	11	04
2.5	5/16	7,94	08	09	07	07	13	13	05
	.315	8,00			08				
3	3/8	9,52	09	11	09	09	16	16	06
	.394	10,00			10				
3.5	7/16	11,11	11	13	11	11	19	19	07
	.472	12,00			12				
4	1/2	12,70	12	15	12	12	22	22	08
4.5	9/16	14,29	14	17	14	14	24	24	09
5	5/8	15,88	16	19	15	15	27	27	10
	.630	16,00			16				
5.5	11/16	17,46	17	21	17	17	30	30	11
6	3/4	19,05	19	23	19	19	33	33	13
	.787	20,00			20				
7	7/8	22,22	22	27	22	22	38	38	15
	.984	25,00			25				
8	1	25,40	25	31	25	25	44	44	17
10	1 1/4	31,75	32	38	31	31	54	54	21
	1.260	32,00			32				

THICKNESS			
symbol		thickness	
in	metric	in	mm
.5 (1)		1/32	0,79
.6	T0	.040	1,00
1 (2)	01	1/16	1,59
1.2	T1	5.64	1,98
1.5 (3)	02	3/32	2,38
2	03	1/8	3,18
2.5	T3	5/32	3,97
3	04	3/16	4,76
3.5	05	7/32	5,56
4	06	1/4	6,35
5	07	5/16	7,94
6	09	3/8	9,52
7	11	7/16	11,11
8	12	1/2	12,70

CORNER RADIUS			
symbol		corner radius	
in	metric	in	mm
0	01	.004	0,1
.5	02	.008	0,2
1	04	1/64	0,4
2	08	1/32	0,8
3	12	3/64	1,2
4	16	1/16	1,6
5	20	5/64	2,0
6	24	3/32	2,4
7	28	7/64	2,8
8	32	1/8	3,2
	00	round insert (inch)	
	M0	round insert (metric)	

On Edge Milling

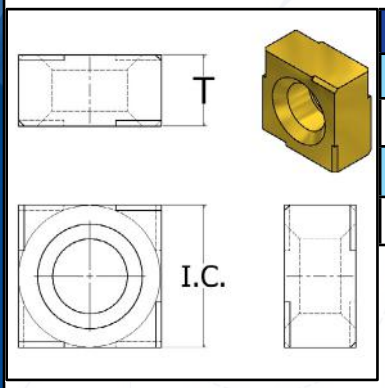




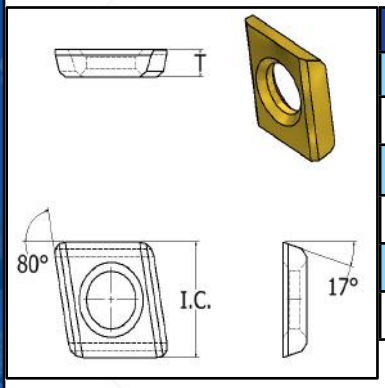




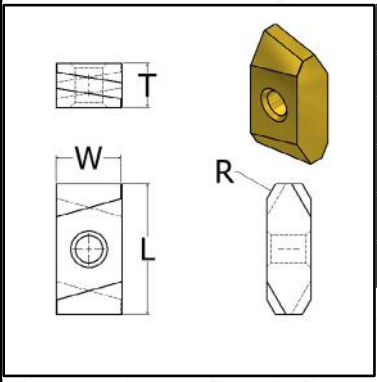




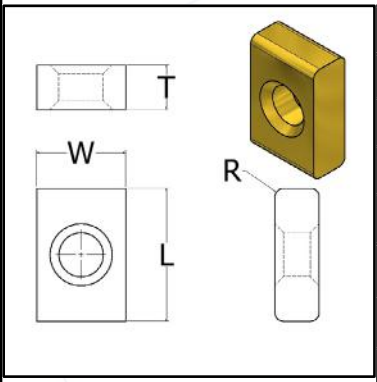
Part #	EDP #	I.C.	T
SNE33L13	PG1000	.375	.1875
SNE33R13	PG1001	.375	.1875
SNE44L13	PG1002	.500	.250
SNE44R13	PG1003	.500	.250



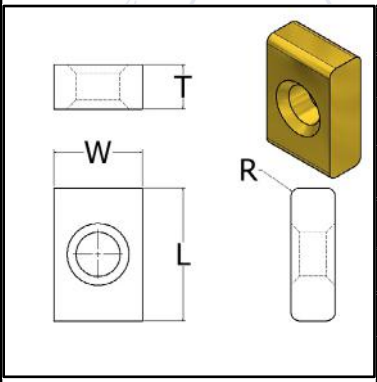
Part #	EDP #	I.C.	T
SPE33L02	PG1004	.4375	.1875
SPE33R01	PG1005	.4375	.1875
SPE33R02	PG1006	.4375	.1875
SPE33R05	PG1007	.4375	.1875
SPE33R07	PG1008	.4375	.1875
SPE33R15	PG1009	.4375	.1875



Part #	EDP #	W	L	T	R
LSE323L02	PG1010	.375	.625	.1875	.037 X 45 (4)
LSE323R02	PG1011	.375	.625	.1875	.037 X 45 (4)
LSE434R01	PG1012	.5625	.750	.250	.030 X .30 X 8
LSE434R02	PG1013	.5625	.750	.250	.060 X 45 X 8
LSE446R01	PG1014	.5625	1.125	.375	.074 X .60 (4)

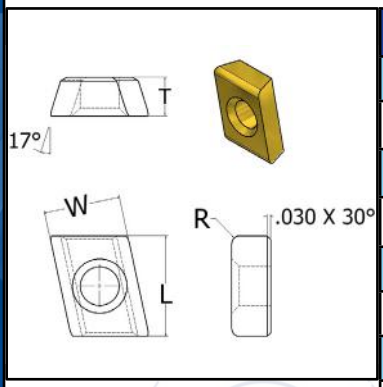


Part #	EDP #	W	L	T	R	H
LNE323-01	PG1015	.375	.625	.187	.031 X 30	.170
LNE323-02	PG1016	.375	.625	.187	.031 X 45	.170
LNE323-04	PG1017	.375	.625	.187	.060 (4)	.170
LNE323-19	PG1018	.375	.625	.187	.125 (2)	.170
LNE323-30	PG1019	.375	.625	.1875	.030 X 45 (4)	.170
LNE323-44	PG1020	.375	.625	.1875	.030 X 45 (4)	.170
LNE323-60	PG1021	.375	.625	.187	.150 (1)	.170
LNE323-91	PG1022	.375	.625	.187	.125 (2)	.170
LNE324-01	PG1023	.375	.625	.250	.060 (4)	.170
LNE324-03	PG1024	.375	.625	.250	.045 X 45	.170
LNE324-04	PG1025	.375	.625	.250	.031 X 45	.170
LNE324-05	PG1026	.375	.625	.250	.031 X 45	.170
LNE324-11	PG1027	.375	.625	.250	.125 (4)	.170

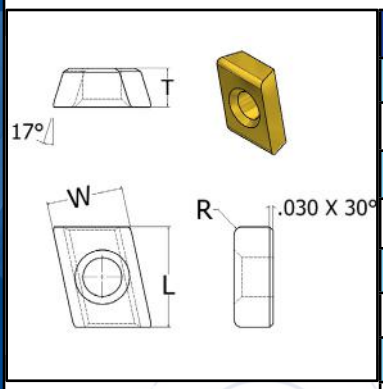


Part #	EDP #	W	L	T	R	H
LNE424-02	PG1028	.625	.500	.250	.030 X 45 (4)	.217
LNE424-20	PG1029	.500	.625	.250	.030 X 45 (4)	.217
LNE425-01	PG1030	.500	.625	.3125	.060 X .15 (4)	.217
LNE425-02	PG1031	.500	.625	.3125	.090 (4)	.217
LNE425-13	PG1032	.500	.625	.3125	.500 (2)	.217
LNE425-16	PG1033	.500	.625	.3125	1.00 (2)	.217
LNE425-20	PG1034	.500	.625	.3125	.030 X 45 (4)	.217
LNE425-25	PG1035	.500	.625	.3125	.625 (2)	.217
LNE425-60	PG1036	.500	.625	.3125	.043 X 45 (4)	.217
LNE434-02	PG1037	.5625	.750	.250	.250	.217
LNE434-05	PG1038	.5625	.750	.250	.250	.217
LNE443	PG1039	.500	1.000	.187	.030 X 45 (4)	.217
LNE444	PG1040	.500	1.000	.250	.031 X 45 (4)	.217
LNE446-01	PG1041	.5625	1.125	.375	.062 X 45 (4)	.217
LNE446-03	PG1042	.5625	1.125	.375	.250 (2)	.217

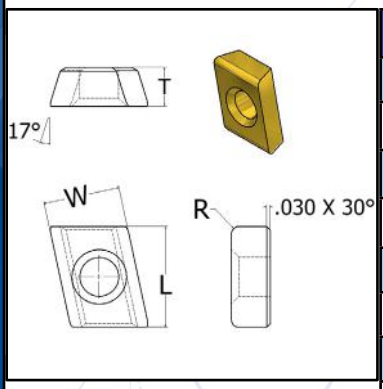
KNIGHT CARBIDE



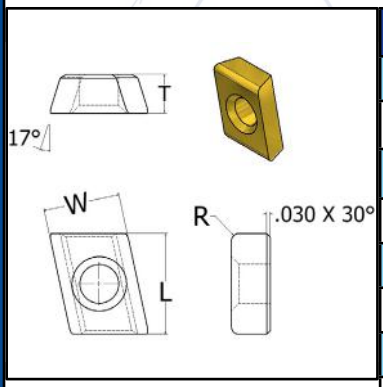
Part #	EDP #	W	L	T	R	H
CDE313L01	PG1043	.375	.4375	.1875	.020 X 45	.168
CDE313R01	PG1044	.375	.4375	.1875	.020 X 45	.168
CDE313L02	PG1045	.375		.1875	.073 X 45	.168
CDE313R02	PG1046	.375	.4375	.1875	.073 X 45	.168
CDE313L03	PG1047	.375	.375	.1875	.060	.168
CDE313R03	PG1048	.375	.375	.1875	.060	.168
CDE313L04	PG1049	.375	.4375	.1875	.125 (2)	.168
CDE313R04	PG1050	.375	.4375	.1875	.125 (2)	.168
CDE313L07	PG1051	.4375	.375	.1875	.125 (1)	.168
CDE313R07	PG1052	.4375	.375	.1875	.125 (1)	.168
CDE313L08	PG1053	.4375	.375	.1875	.090	.168
CDE313R08	PG1054	4375	.375	.1875	.090	.168
CDE313L20	PG1055	.4375	.312	.1875	.015	.168
CDE313R20	PG1056	.375	.312	.1875	.015	.168
CDE313L21	PG1057	.375	.312	.1875	.030	.168
CDE313R21	PG1058	.375	.312	.1875	.030	.168
CDE313L22	PG1059	.375	.312	.1875	.060	.168
CDE313R22	PG1060	.375	.312	.1875	.060	.168
CDE313L23	PG1061	.375	.312	.1875	.090	.168
CDE313R23	PG1062	.375	.312	.1875	.090	.168
CDE313L24	PG1063	.375	.312	.1875	.125	.168
CDE313R24	PG1064	.375	.312	.1875	.125	.168
CDE313L30	PG1065	.375	.375	.1875	.015	.168
CDE313R30	PG1066	.375	.375	.1875	.015	.168
CDE313L31	PG1067	.375	.375	.1875	.030	.168
CDE313R31	PG1068	.375	.375	.1875	.030	.168
CDE313L32	PG1069	.375	.375	.1875	.060	.168
CDE313R32	PG1070	.375	.375	.1875	.060	.168
CDE313L33	PG1071	.375	.375	.1875	.090	.168
CDE313R33	PG1072	.375	.375	.1875	.090	.168



Part #	EDP #	W	L	T	R	H
CDE313L34	PG1073	.375	.375	.1875	.125	.168
CDE313R34	PG1074	.375	.375	.1875	.125	.168
CDE313L40	PG1075	.375	.4375	.1875	.015	.168
CDE313R40	PG1076	.375	.4375	.1875	.015	.168
CDE313L41	PG1077	.375	.4375	.1875	.030	.168
CDE313R41	PG1078	.375	.4375	.1875	.030	.168
CDE313L42	PG1079	.375	.4375	.1875	.060	.168
CDE313R42	PG1080	.375	.4375	.1875	.060	.168
CDE313L43	PG1081	.375	.4375	.1875	.090	.168
CDE313R43	PG1082	.375	.4375	.1875	.090	.168
CDE313L44	PG1083	.375	.4375	.1875	.125	.168
CDE313R44	PG1084	.375	.4375	.1875	.125	.168
CDE313L64	PG1085	.4375	.375	.1875	.060	.168
CDE313R64	PG1086	.4375	.375	.1875	.060	.168
CDE313L67	PG1087	.4375	.375	.1875	.125	.168
CDE313R67	PG1088	.4375	.375	.1875	.125	.168
CDE322L02	PG1089	.375	.500	.150	.060	.168
CDE322R02	PG1090	.375	.500	.150	.060	.168
CDE322L03	PG1091	.375	.500	.150	.090	.168
CDE322R03	PG1092	.375	.500	.150	.090	.168
CDE322L04	PG1093	.375	.500	.150	.125	.168
CDE322R04	PG1094	.375	.500	.150	.125	.168
CDE322L05	PG1095	.375	.500	.150	.031	.168
CDE322R05	PG1096	.375	.500	.150	.031	.168
CDE322L07	PG1097	.375	.500	.150	.010	.168
CDE322R07	PG1098	.375	.500	.150	.010	.168
CDE322L08	PG1099	.375	.500	.150	.045	.168
CDE322R08	PG1100	.375	.500	.150	.045	.168
CDE322L10	PG1101	.375	.500	.150	.015	.168
CDE322R10	PG1102	.375	.500	.150	.015	.168

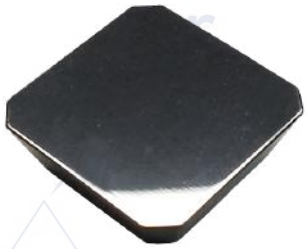


Part #	EDP #	W	L	T	R	H
CDE323L01	PG1103	.375	.500	.1875	.020 X 45	.168
CDE323R01	PG1104	.375	.500	.1875	.020 X 45	.168
CDE323L02	PG1105	.375	.500	.1875	.090 X 45	.168
CDE323R02	PG1106	.375	.500	.1875	.090 X 45	.168
CDE323L05	PG1107	.375	.500	.1875	.030	.168
CDE323R05	PG1108	.375	.500	.1875	.030	.168
CDE323L09	PG1109	.375	.500	.1875	.015	.168
CDE323R09	PG1110	.375	.500	.1875	.015	.168
CDE323L22	PG1111	.375	.500	.1875	.060	.168
CDE323R22	PG1112	.375	.500	.1875	.060	.168
CDE323L23	PG1113	.375	.500	.1875	.090	.168
CDE323R23	PG1114	.375	.500	.1875	.090	.168
CDE323L24	PG1115	.375	.500	.1875	.125	.168
CDE323R24	PG1116	.375	.500	.1875	.125	.168
CDE323L30	PG1117	.375	.687	.1875	.015	.168
CDE323R30	PG1118	.375	.687	.1875	.015	.168
CDE323L31	PG1119	.375	.687	.1875	.030	.168
CDE323R31	PG1120	.375	.687	.1875	.030	.168
CDE323L32	PG1121	.375	.687	.1875	.060	.168
CDE323R32	PG1122	.375	.687	.1875	.060	.168
CDE323L33	PG1123	.375	.687	.1875	.090	.168
CDE323R33	PG1124	.375	.687	.1875	.090	.168
CDE323L34	PG1125	.375	.687	.1875	.125	.168
CDE323R34	PG1126	.375	.687	.1875	.125	.168
CDE334L04	PG1127	.375	.750	.250	.230	.168
CDE334R04	PG1128	.375	.750	.250	.230	.168
CDE424R01	PG1129	.5625	.500	.250	.020 X 45	.213
CDE424R03	PG1130	.5625	.500	.250	.187 (1)	.213
CDE424R04	PG1131	.5625	.500	.250	.125 (1)	.213



Part #	EDP #	W	L	T	R	H
CDE424R05	PG1132	.5625	.500	.250	.020 X 45	.213
CDE424L30	PG1133	.562	.687	.250	.015	.213
CDE424R30	PG1134	.562	.687	.250	.015	.213
CDE424L31	PG1135	.562	.687	.250	.030	.213
CDE424R31	PG1136	.562	.687	.250	.030	.213
CDE424L32	PG1137	.562	.687	.250	.060	.213
CDE424R32	PG1138	.562	.687	.250	.060	.213
CDE424L33	PG1139	.562	.687	.250	.090	.213
CDE424R33	PG1140	.562	.687	.250	.090	.213
CDE424L34	PG1141	.562	.687	.250	.125	.213
CDE424R34	PG1142	.562	.687	.250	.125	.213
CDE424L35	PG1143	.562	.687	.250	.187	.213
CDE424R35	PG1144	.562	.687	.250	.187	.213
CDE424L36	PG1145	.562	.687	.250	.230	.213
CDE424R36	PG1146	.562	.687	.250	.230	.213

Face Milling

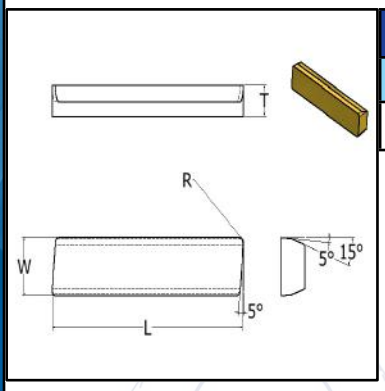




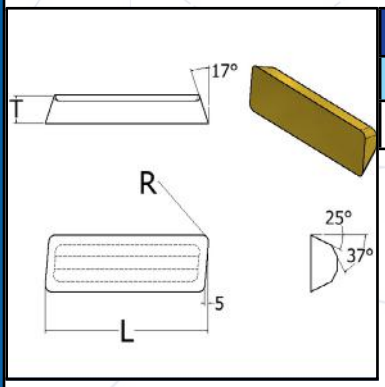




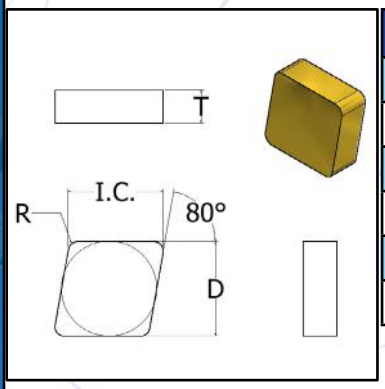




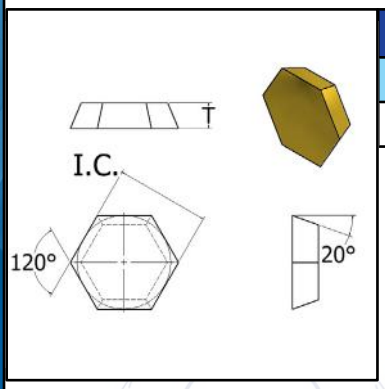
Part #	EDP #	W	L	T	R
ABE-2422R	PG1147	.250	1	.125	.031
ABE-2.25 422R	PG1148	.281	1.003	.125	.031



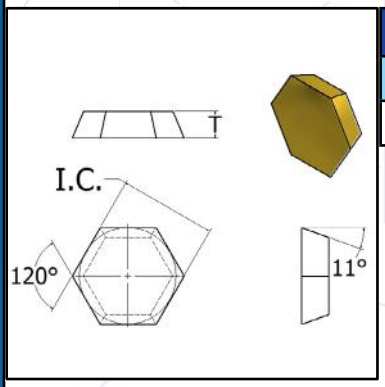
Part #	EDP #	W	L	T	R
AFE-2322R	PG1149	.250	.750	.125	.031
AFE-2422R	PG1150	.250	1	.125	.031



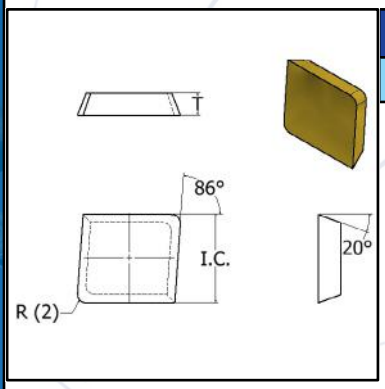
Part #	EDP #	I.C.	D	T	R
CNG431	PG1151	.500	.507	.1875	.015
CNG432	PG1152	.500	.507	.1875	.0312
CNG433	PG1153	.500	.507	.1875	.046
CNG434	PG1154	.500	.507	.1875	.0625
CNG543	PG1158	.625	.633	.250	.046
CNG643	PG1161	.750	.759	.250	.046



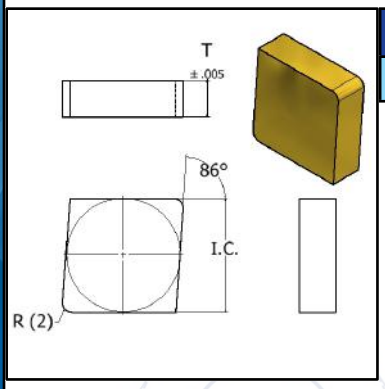
Part #	EDP #	I.C.	T	R
HEC532J	PG1162	.625	.187	.031
HEC633J	PG1163	.75	.187	.046



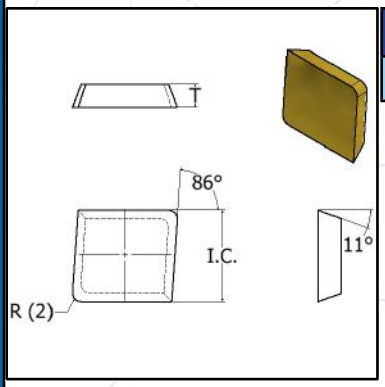
Part #	EDP #	I.C.	T	R
HPC-532	PG1164	.625	.1875	.031
HPC-633	PG1165	.750	.1875	.046



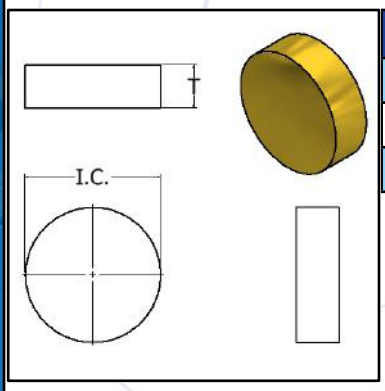
Part #	EDP #	I.C.	T	R
MEC-632	PG1166	.750	.1875	.031



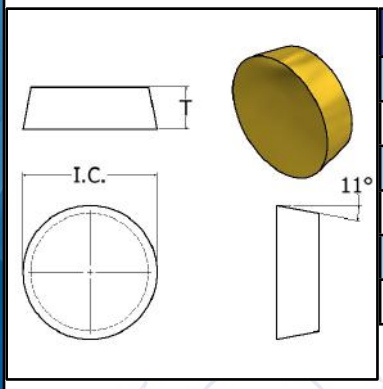
Part #	EDP #	I.C.	T	R
MNG-52.52	PG1167	.625	.156	.031



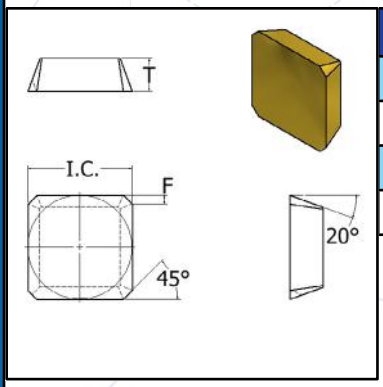
Part #	EDP #	I.C.	T	R
MPG-52.52	PG1168	.625	.156	.031



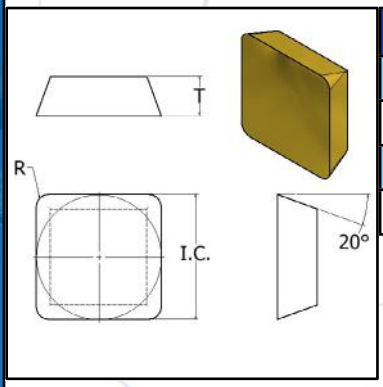
Part #	EDP #	I.C.	T
RNG-32	PG1169	.375	.125
RNG-42	PG1170	.500	.125
RNG-43	PG1171	.500	.1875



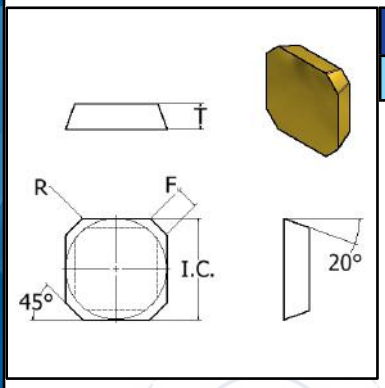
Part #	EDP #	I.C.	T
RPG-32	PG1172	.375	.125
RPG-42	PG1173	.500	.125
RPG-43	PG1174	.500	.1875
RPG-53	PG1175	.625	.1875
RPG-63	PG1176	.750	.1875
RPG-83	PG1177	1	.1875



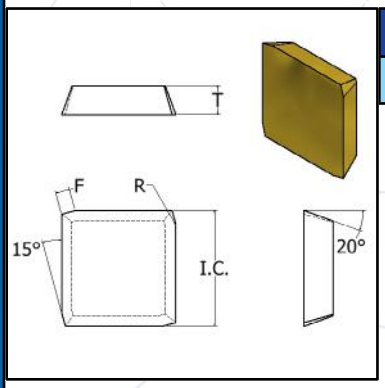
Part #	EDP #	I.C.	T	F
SEAN-42AFN	PG1178	.500	.125	.062
SEAN-42AFTN	PG1179	.500	.125	.062
SEAN-53AFN	PG1180	.625	.1875	.062
SEAN-53AFTN	PG1181	.625	.1875	.062



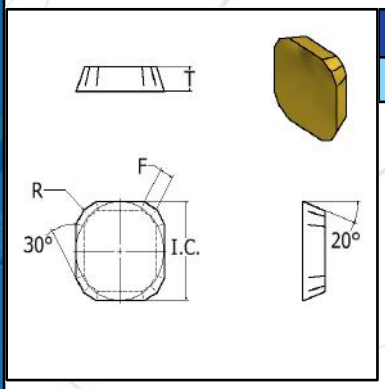
Part #	EDP #	I.C.	T	R
SEC-422	PG1182	.500	.125	.031
SEC-433	PG1183	.500	.1875	.046
SEC-533	PG1184	.625	.1875	.046
SEC-634	PG1185	.750	.1875	.062



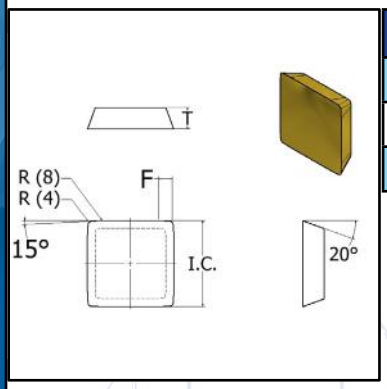
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SEC-63A8	PG1186	.750	.1875	.015	.125



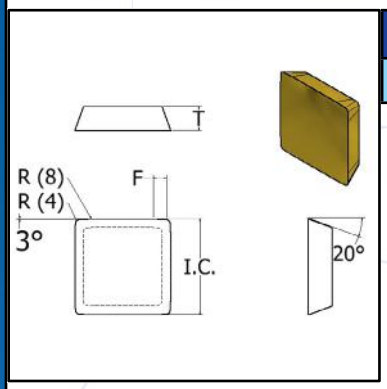
Part #	EDP #	I.C.	T	R	F
SEC-42E4R	PG1187	.500	.125	.015	.062



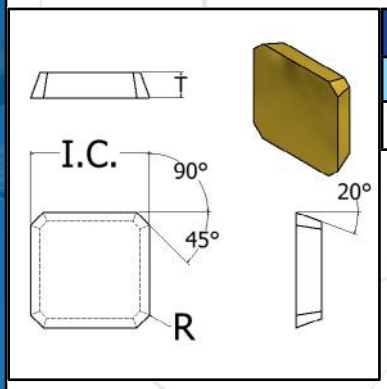
Part #	EDP #	I.C.	T	R	F
SEC-63K8	PG1188	.750	.1875	.015	.125



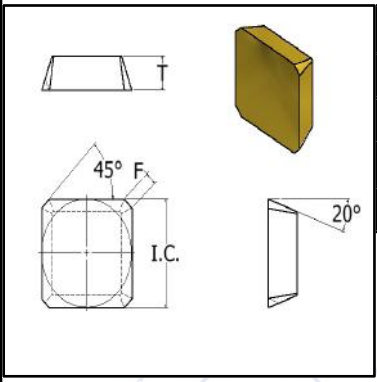
Part #	EDP #	I.C.	T	F
SEC-43L4	PG1189	.500	.1875	.062
SEC-53L4	PG1190	.625	.1875	.062
SEC-63L8	PG1191	.750	.1875	.125



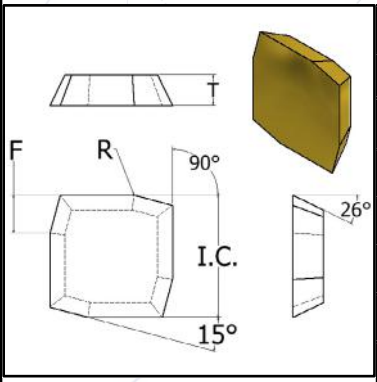
Part #	EDP #	I.C.	T	F
SEC-63M8	PG1192	.750	.1875	.125



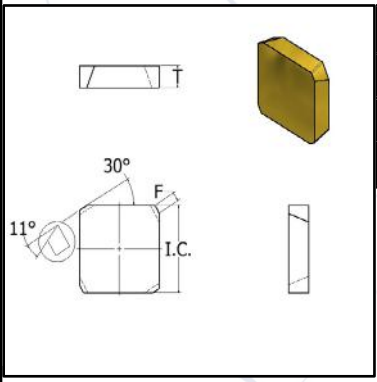
Part #	EDP #	I.C.	T	R
SEHN42AFSN	PG1193	.500	.125	.046
SEHN53AFSN	PG1194	.625	.1875	.046



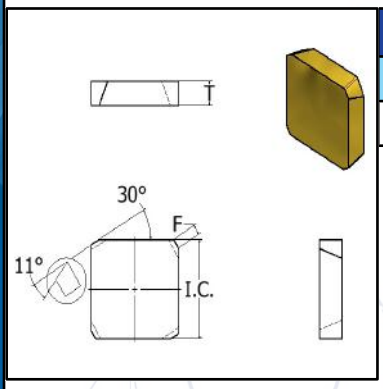
Part #	EDP #	I.C.	T	F
SEKN-42AFN	PG1195	.500	.125	.062
SEKN-42AFTN	PG1196	.500	.125	.062
SEKN-53AFN	PG1197	.625	.1875	.062
SEKN-53AFTN	PG1198	.625	.1875	.062



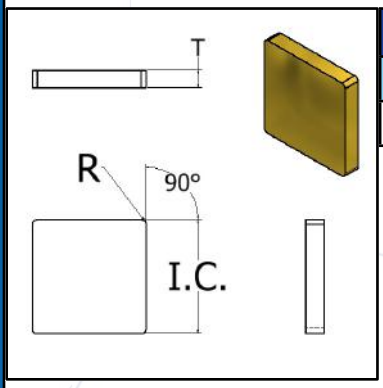
Part #	EDP #	I.C.	T	R	F
SFE42E10J	PG1199	.500	.125	.015	.156
SFE42E4	PG1200	.500	.125	.015	.060
SFE42E4J	PG1201	.500	.125	.015	.060
SFE42H10J	PG1202	.500	.125	.015	.156
SFE42H4J	PG1203	.500	.125	.015	.060
SFE63E	PG1204	.750	.1875	.015	.090
SFE63E13	PG1205	.750	.1875	.015	.199
SFE63E13J	PG1206	.750	.1875	.015	.199
SFE63EJ	PG1207	.750	.1875	.015	.090
SFE63H13J	PG1208	.750	.1875	.015	.199
SFE63HJ	PG1209	.750	.1875	.015	.090



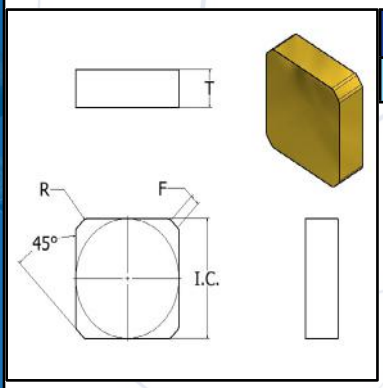
Part #	EDP #	I.C.	T	R	F
SHC-63D8R	PG1210	.750	.1875	.015	.125
SHC-63D8L	PG1211	.750	.1875	.015	.125
SHC-63D8TR	PG1212	.750	.1875	.015	.125



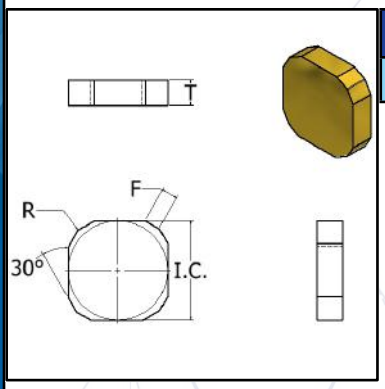
Part #	EDP #	I.C.	T	R	F
SHX-84D5R	PG1213	1	.250	.015	.078
SHX-84DL	PG1214	1	.250	.015	.078



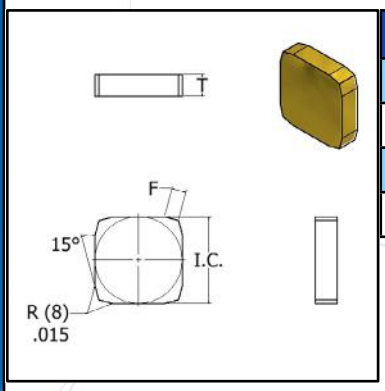
Part #	EDP #	I.C.	T	R
SNC63K	PG1215	.750	.1875	.015
SNC43L	PG1216	.500	.1875	.015



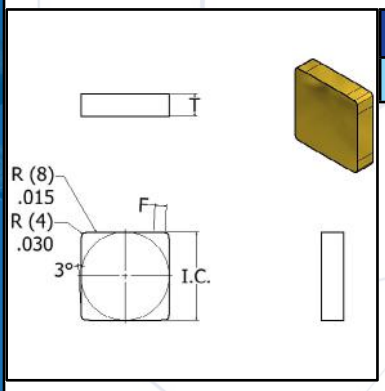
Part #	EDP #	I.C.	T	R	F
SNC-63A8	PG1217	.750	.1875	.015	.125



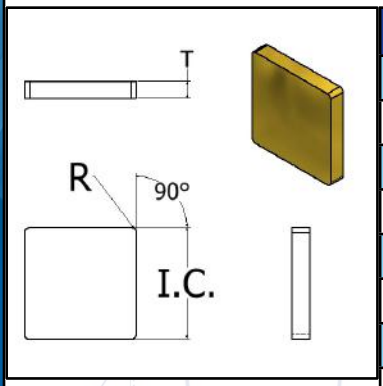
Part #	EDP #	I.C.	T	R	F
SNC-63K8	PG1218	.750	.1875	.015	.125



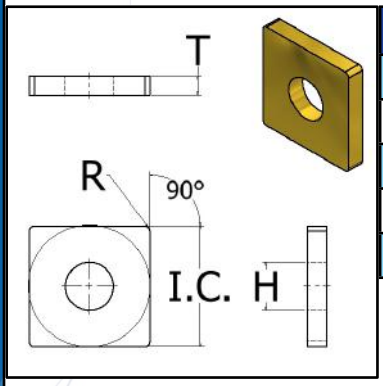
Part #	EDP #	I.C.	T	F
SNC-43L4	PG1219	.500	.1875	.0625
SNC-43L6	PG1220	.500	.1875	.0937
SNC-43L8	PG1221	.750	.1875	.125
SNC-63L8T	PG1222	.750	.1875	.125



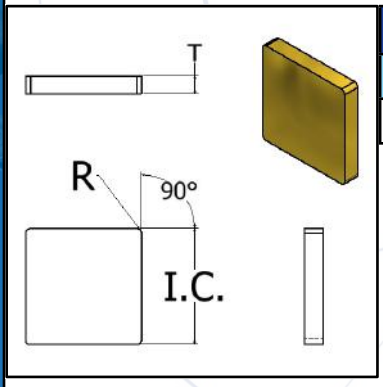
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SNC-63M8	PG1223	.750	.1875	.125



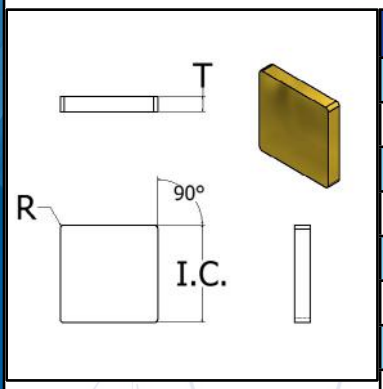
Part #	EDP #	I.C.	T	R
SNE434	PG1224	.500	.1875	.062
SNE632	PG1225	.750	.1875	.031
SNE634	PG1226	.750	.1875	.062
SNE43A	PG1227	.500	.1875	.15
SNE63A	PG1228	.750	.1875	.015
SNE43K	PG1230	.500	.1875	.15
SNE63K	PG1231	.750	.1875	.015
SNE63L	PG1232	.750	.1875	.015



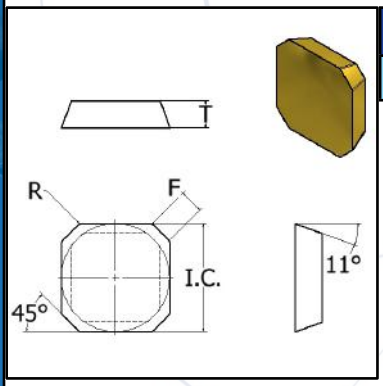
Part #	EDP #	I.C.	T	R
SNEA322	PG1233	.375	.125	.031
SNEA432	PG1234	.500	.1875	.031
SNEA433	PG1235	.500	.1875	.046
SNEA543	PG1236	.625	.250	.046
SNEA643	PG1237	.750	.250	.046



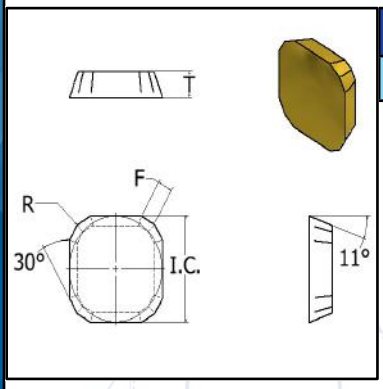
Part #	EDP #	I.C.	T	R
SNF43A	PG1238	.500	.187	.15
SNF63A	PG1239	.750	.1875	.015



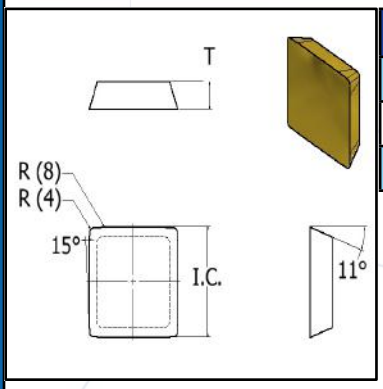
Part #	EDP #	I.C.	T	R
SNG-320	PG1240	.375	.125	
SNG-321	PG1241	.375	.125	.015
SNG-322	PG1242	.375	.125	.031
SNG-324	PG1243	.375	.125	.0625
SNG-420	PG1244	.500	.125	
SNG-421	PG1245	.500	.125	.015
SNG-422	PG1246	.500	.125	.031
SNG-423	PG1247	.500	.125	.046
SNG-424	PG1248	.500	.125	.0625
SNG-430	PG1249	.500	.1875	
SNG-431	PG1250	.500	.1875	.015
SNG-432	PG1251	.500	.1875	.031
SNG-433	PG1252	.500	.1875	.046
SNG-434	PG1253	.500	.1875	.0625
SNG-438	PG1254	.500	.1875	.125
SNG-630	PG1255	.750	.1875	
SNG-632	PG1256	.750	.1875	.031
SNG-633	PG1257	.750	.1875	.046
SNG634	PG1258	.750	.1875	.0625
SNG-638	PG1259	.750	.1875	.125



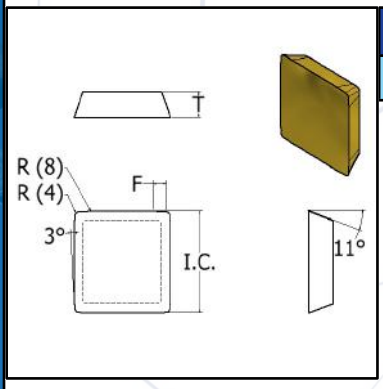
Part #	EDP #	I.C.	T	R	F
SPC-63A8	PG1260	.750	.1875	.015	.125



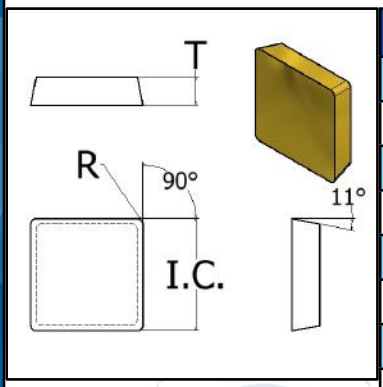
Part #	EDP #	I.C.	T	R	F
SPC-63K8	PG1261	.750	.1875	.015	.125



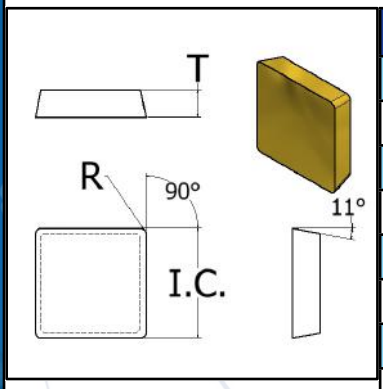
Part #	EDP #	I.C.	T	F
SPC-43L4	PG1262	.500	.1875	.0625
SPC-43L6	PG1263	.500	.1875	.0937
SPC-63L8	PG1264	.750	.1875	.125



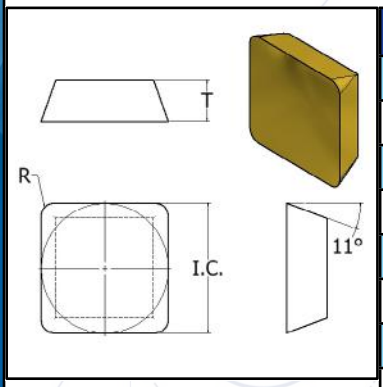
Part #	EDP #	I.C.	T	F
SPC-63M8	PG1265	.750	.1875	.125



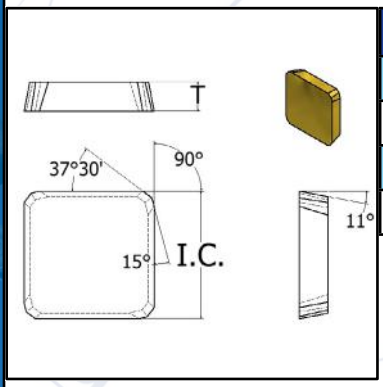
Part #	EDP #	I.C.	T	R
SPE322	PG1266	.375	.125	.031
SPE323	PG1267	.375	.125	.046
SPE324	PG1268	.375	.125	.062
SPE421	PG1269	.500	.125	.015
SPE422	PG1270	.500	.125	.031
SPE423	PG1271	.500	.125	.046
SPE424	PG1272	.500	.125	.062
SPE431	PG1273	.500	.187	.015
SPE432	PG1274	.500	.187	.031
SPE433	PG1275	.500	.187	.046
SPE434	PG1276	.500	.187	.062
WC-SPE434	PG1277	.500	.187	.062
SPE532	PG1278	.625	.187	.031
SPE534	PG1279	.625	.187	.062
SPE632	PG1280	.750	.187	.031



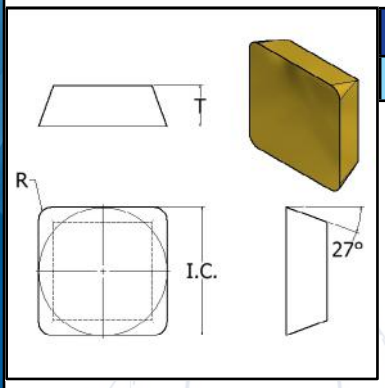
Part #	EDP #	I.C.	T	R
SPE633	PG1281	.750	.187	.046
SPE634	PG1282	.750	.187	.062
SPE636	PG1283	.750	.187	.094
WC-SPE634	PG1284	.750	.187	.094
SPE63D	PG1285	.750	.1875	.015
SPE63G	PG1286	.750	.1875	.015
SPE42E	PG1287	.500	.125	.015
SPE42EBT	PG1288	.500	.125	.015
SPE42H	PG1289	.500	.125	.015
SPE43E	PG1290	.500	.125	.015
SPE43EBT	PG1291	.500	.125	.015
SPE63E	PG1292	.750	.1875	.015
SPE63E13	PG1293	.750	.1875	.015
SPE63EBT	PG1294	.750	.1875	.015
SPE63H	PG1295	.750	.1875	.015
SPE63L	PG1296	.750	.1875	.015



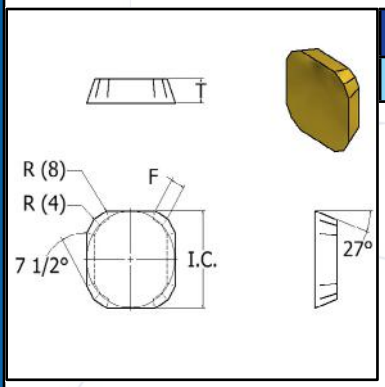
Part #	EDP #	I.C.	T	R
SPG-320	PG1297	.375	.125	
SPG-321	PG1298	.375	.125	.015
SPG-322	PG1299	.375	.125	.031
SPG-323	PG1300	.375	.125	.046
SPG-420	PG1301	.500	.125	
SPG-421	PG1302	.500	.125	.015
SPG-422	PG1303	.500	.125	.031
SPG-423	PG1304	.500	.125	.046
SPG-424	PG1305	.500	.125	.0625
SPG-433	PG1306	.500	.1875	.046
SPG-434	PG1307	.500	.1875	.0625
SPG-630	PG1308	.750	.1875	
SPG-632	PG1309	.750	.1875	.031
SPG-633	PG1310	.750	.1875	.046
SPG-634	PG1311	.750	.1875	.0625
SPG-638	PG1312	.750	.1875	.125



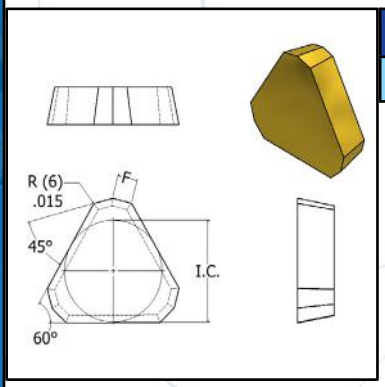
Part #	EDP #	I.C.	T
SPKN1203EDEL	PG1313	.500	.125
SPKN1203EDER	PG1314	.500	.125
SPKN1203EDSR	PG1315	.500	.125
SPKN1504EDSR	PG1316	.625	.187



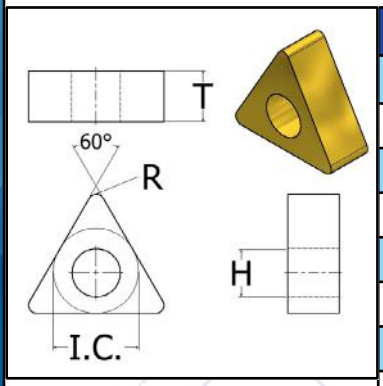
Part #	EDP #	I.C.	T	R
SXC-533J	PG1317	.625	.1875	.046



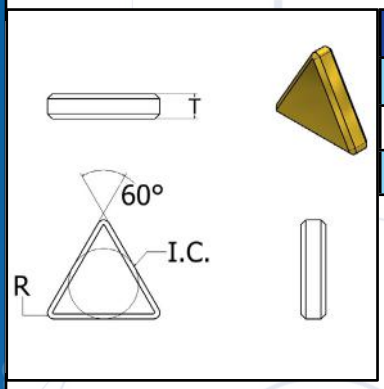
Part #	EDP #	I.C.	T	F
SXC-53G8J	PG1318	.625	.1875	.125



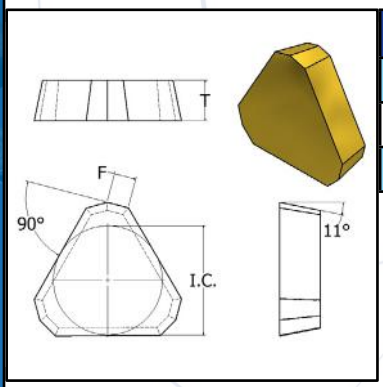
Part #	EDP #	I.C.	T	F
TNC-43X6.5	PG1319	.500	.1875	.101



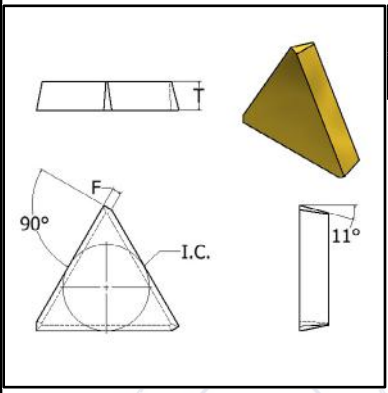
Part #	EDP #	I.C.	T	R	H
TNEA2.521	PG1320	.3125	.125	.015	.127
TNEA2.522	PG1321	.3125	.125	.031	.127
TNEA322	PG1322	.375	.125	.031	.15
TNEA323	PG1323	.375	.125	.046	.15
TNEA332	PG1324	.375	.1875	.031	.15
TNEA333	PG1325	.375	.1875	.046	.15
TNEA432	PG1326	.500	.1875	.031	.202
TNEA433	PG1327	.500	.1875	.046	.202
TNEA434	PG1328	.500	.1875	.062	.202
TNEA542	PG1329	.625	.250	.031	.251
TNEA543	PG1330	.625	.250	.046	.251



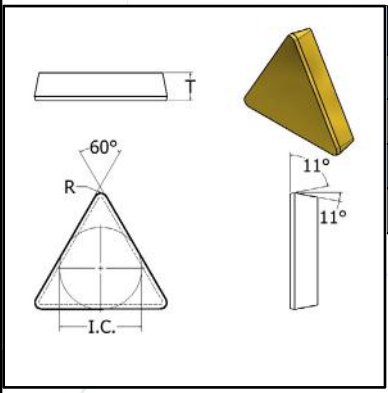
Part #	EDP #	I.C.	T	R	L
TNG332	PG1331	.375	.1875	.031	.650
TNG432	PG1332	.500	.1875	.031	.866
TNG433	PG1333	.500	.1875	.046	.866



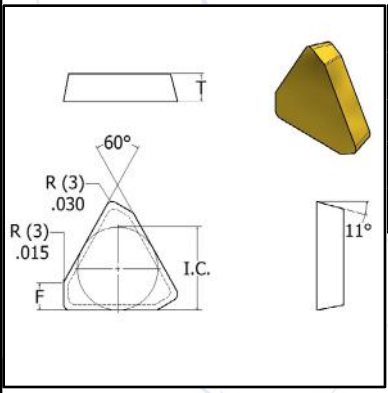
Part #	EDP #	I.C.	T	F
TPA-22PPN	PG1334	.250	.125	.028
TPA-32PPN	PG1335	.375	.125	.047
TPA-32PPTN	PG1336	.375	.125	.047



Part #	EDP #	I.C.	T	F
TPA-32PPR	PG1337	.375	.125	.040

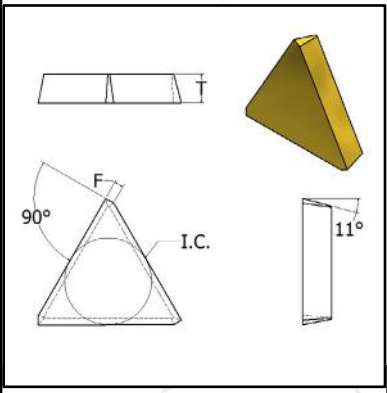


Part #	EDP #	I.C.	T	R
TPC-322	PG1338	.375	.125	.031
TPC-322T	PG1339	.375	.125	.031
TPC-432	PG1340	.500	.1875	.031
TPC-432T	PG1341	.500	.1875	.031

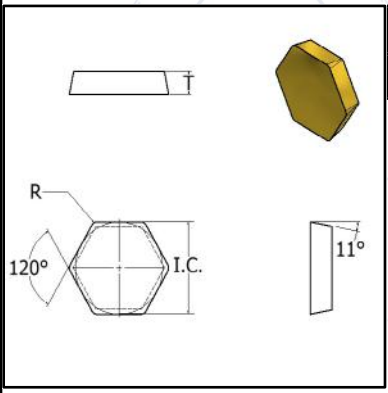


Part #	EDP #	I.C.	T	F
TPC-32P8R	PG1342	.375	.125	.125
TPC-32P8L	PG1343	.375	.125	.125
TPC-43P8R	PG1344	.500	.0625	.125
TPC-43P8L	PG1345	.500	.0625	.125

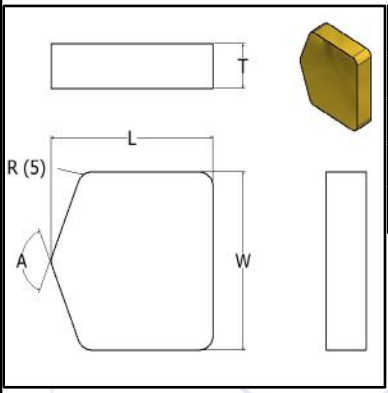
KNIGHT CARBIDE



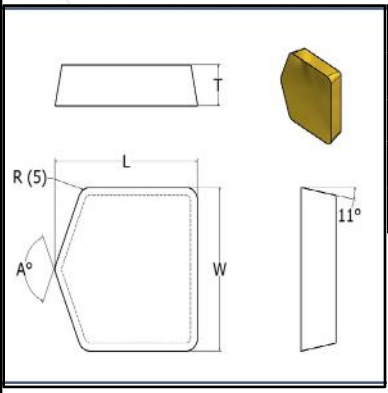
Part #	EDP #	I.C.	T	F
TPK-32PPR	PG1346	.375	.125	.040
TPK-32PPL	PG1347	.375	.125	.040
TPK-32PDTR	PG1348	.375	.125	.040
TPK-32PDTL	PG1349	.375	.125	.040
TPK-43PPR	PG1350	.500	.1875	.060
TPK-43PPL	PG1351	.500	.1875	.060
TPK-43PDR	PG1352	.500	.1875	.060
TPK-43PDL	PG1353	.500	.1875	.060



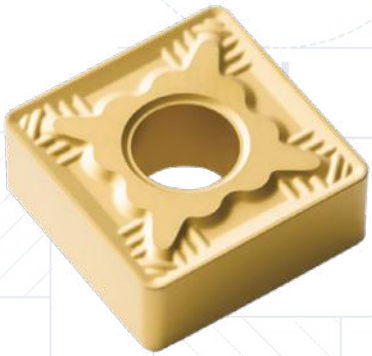
Part #	EDP #	I.C.	T	R
WC-HPE-633	PG1354	.750	.1875	.046

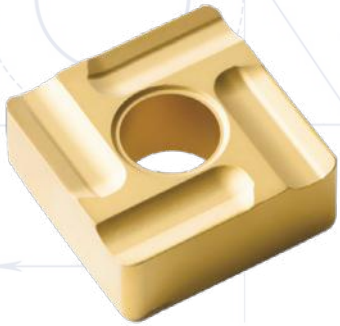


Part #	EDP #	W	L	T	R	A
WF3-SNC-634	PG1355	.750	.768	.1875	.0625	174°
WF15-SNC-634	PG1356	.750	.836	.1875	.0625	150°
WF30-SNC-634	PG1357	.750	.933	.1875	.0625	120°
WF45-SNC-634	PG1358	.750	1.07	.1875	.0625	90°



Part #	EDP #	W	L	T	R	A
WF3-SPC-634	PG1359	.750	.768	.1875	.0625	174°
WF15-SPC-634	PG1360	.750	.836	.1875	.0625	150°
WF30-SPC-634	PG1361	.750	.933	.1875	.0625	120°
WF45-SPC-634	PG1362	.750	1.07	.1875	.0625	90°









Chip Breaker Styles

Styles	Application
	KS2 - Stainless Steel
	KPR - Steel
	KPM - Steel Medium
	KPH - Steel High Positive Edge
	KPF - Steel Finish
	KSF - Heat Resistant Super Alloys



Part #	EDP #	I.C.	T	R	H	KPR	KSF	KS2	KPM	KPH	KPF
CNMG 321	PG1363	.375	.125	.015	.150			●	●		●
CNMG 322	PG1364	.375	.125	.03125	.150			●	●		●
CNMG 431	PG1365	.500	.1875	.015	.202		●	●	●		●
CNMG 432	PG1366	.500	.1875	.03125	.202	●	●	●	●		●
CNMG 432 R	PG1367	.500	.1875	.03125	.202					●	
CNMG 432 L	PG1368	.500	.1875	.03125	.202					●	
CNMG 433	PG1369	.500	.1875	.0468	.202	●		●	●		
CNMG 434	PG1370	.500	.1875	.0625	.202			●	●		
CNMG 542	PG1371	.625	.250	.03125	.251			●	●		
CNMG 543	PG1372	.625	.250	.0468	.251	●		●	●		
CNMG 544	PG1373	.625	.250	.0625	.251	●		●			
CNMG 642	PG1374	.750	.250	.03125	.315			●	●		
CNMG 643	PG1375	.750	.250	.0468	.315	●		●	●		
CNMG 644	PG1376	.750	.250	.0625	.315	●		●	●		

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Part #	EDP #	I.C.	T	R	H	KPR	KSF	KS2	KPM	KPH	KPF
SNMG 321	PG1377	.375	.125	.015	.375			●	●		●
SNMG 322	PG1378	.375	.125	.031	.375			●	●		●
SNMG 431	PG1379	.500	.1875	.015	.500			●	●		●
SNMG 432	PG1380	.500	.1875	.031	.500	●		●	●		●
SNMG 432 R	PG1381	.500	.1875	.031	.500					●	
SNMG 432 L	PG1382	.500	.1875	.031	.500					●	
SNMG 433	PG1383	.500	.1875	.046	.500	●		●	●		
SNMG 434	PG1384	.500	.1875	.062	.500			●	●		
SNMG 542	PG1385	.625	.250	.031	.625			●	●		
SNMG 543	PG1386	.625	.250	.046	.625	●		●	●		
SNMG 544	PG1387	.625	.250	.062	.625	●		●			
SNMG 643	PG1388	.750	.250	.046	.750	●		●	●		
SNMG 644	PG1389	.750	.250	.062	.750	●		●			

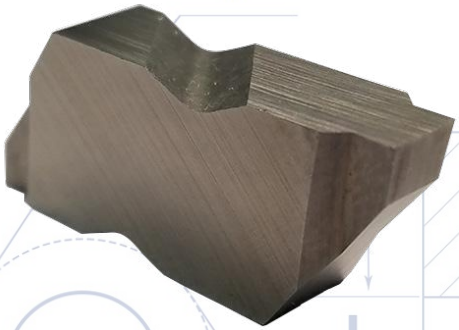


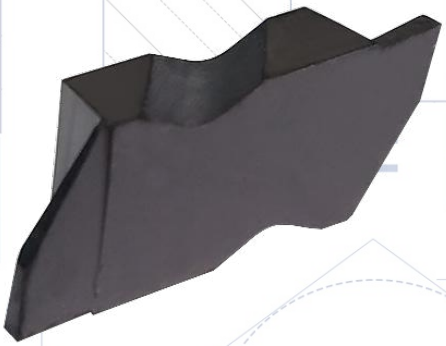
Part #	EDP #	I.C.	T	R	H	KPR	KSF	KS2	KPM	KPH	KPF
TNMG 221	PG1390	.250	.125	.015	.433				●		
TNMG 222	PG1391	.250	.125	.031	.433				●		
TNMG 331	PG1392	.375	.1875	.015	.650		●	●	●		●
TNMG 331 L	PG1393	.375	.1875	.015	.650					●	
TNMG 331 R	PG1394	.375	.1875	.015	.650					●	
TNMG 332	PG1395	.375	.1875	.031	.650		●	●	●		●
TNMG 332 L	PG1396	.375	.1875	.031	.650					●	
TNMG 332 R	PG1397	.375	.1875	.031	.650					●	
TNMG 333	PG1398	.375	.1875	.046	.650			●	●		
TNMG 431	PG1399	.500	.1875	.015	.866						●
TNMG 432	PG1400	.500	.1875	.031	.866			●	●		●
TNMG 433	PG1401	.500	.1875	.046	.866	●		●	●		
TNMG 434	PG1402	.500	.1875	.062	.866	●		●	●		
TNMG 543	PG1403	.625	.250	.046	1.083	●					
TNMG 544	PG1404	.625	.250	.062	1.083	●					



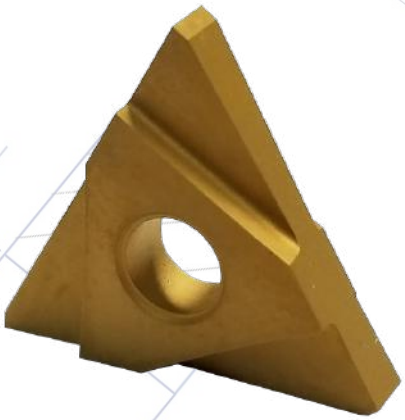
Part #	EDP #	I.C.	T	R	H	KPR	KSF	KS2	KPM	KPH	KPF
WNMG 331	PG1405	.375	.1875	.015	.257			●	●		●
WNMG 332	PG1406	.375	.1875	.031	.257			●	●		●
WNMG 333	PG1407	.375	.1875	.046	.257			●			
WNMG 431	PG1408	.500	.1875	.015	.342		●	●	●		●
WNMG 432	PG1409	.500	.1875	.031	.342	●	●	●	●		●
WNMG 433	PG1410	.500	.1875	.046	.342	●		●	●		
WNMG434	PG1411	.500	.1875	.062	.342	●			●		

Grooving/K-Notch

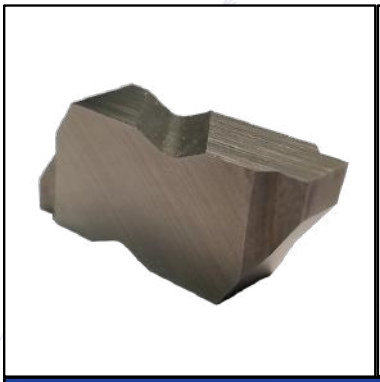


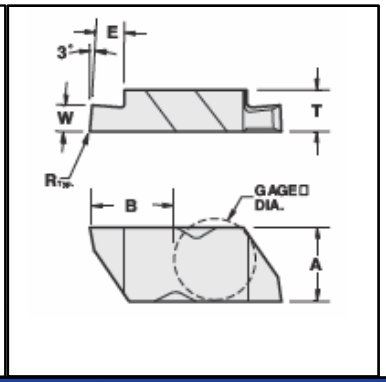






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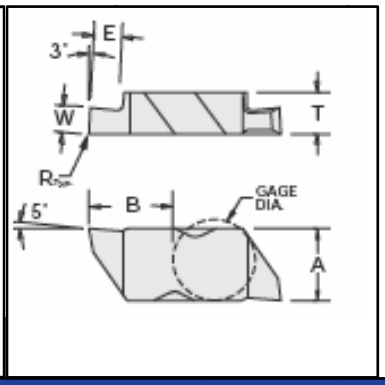




Part #	EDP #	W	R	E	T	A
KNG-2047R	PG1412	.047	.002	.050	.150	.219
KNG-2047L	PG1413	.047	.002	.050	.150	.219
KNG-2062R	PG1414	.062 - .125	.005	.110	.150	.219
KNG-2062L	PG1415	.062 - .125	.005	.110	.150	.219
KNG-3031R	PG1422	.031	.002	.050	.195	.344
KNG-3031L	PG1423	.031	.002	.050	.195	.344
KNG-3047R	PG1424	.047	.005	.075	.195	.344
KNG-3047L	PG1425	.047	.005	.075	.195	.344
KNG-3062R	PG1426	.062-.078	.005	.120	.195	.344
KNG-3062L	PG1427	.062-.078	.005	.120	.195	.344
KNG-3088R	PG1432	.088-.125	.005	.180	.195	.344
KNG-3088L	PG1433	.088-.125	.005	.180	.195	.344
KNG-3189R	PG1440	.189	.020	.180	.195	.344
KNG-3189L	PG1441	.189	.020	.180	.195	.344
KNG-4125R	PG1442	.125	.005	.250	.255	.453
KNG-4125L	PG1443	.125	.005	.250	.255	.453
KNG-4189R	PG1444	.189-.250	.020	.250	.255	.453
KNG-4189L	PG1445	.189-.250	.020	.250	.255	.453

KNIGHT CARBIDE

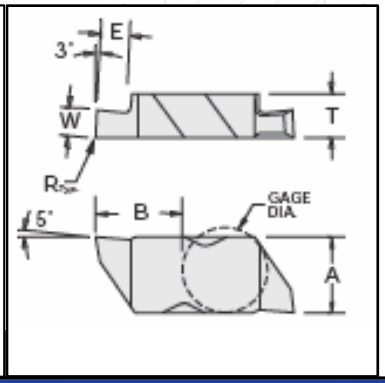




Part #	EDP #	W	R	E	T	A
KNP-2031R	PG1448	.031-.047	.002	.05	.150	.219
KNP-2031L	PG1449	.031-.047	.002	.05	.150	.219
KNP-2058R	PG1454	.058	.005	.05	.150	.219
KNP-2058L	PG1455	.058	.005	.05	.150	.219
KNP-2062R	PG1456	.062	.005	.110	.150	.219
KNP-2062L	PG1457	.062	.005	.110	.150	.219
KNP-2094R	PG1458	.094-.125	.005	.110	.150	.219
KNP-2094L	PG1459	.094-.125	.005	.110	.150	.219
KNP-3031R	PG1462	.031	.002	.05	.195	.344
KNP-3031L	PG1463	.031	.002	.05	.195	.344
KNP-3047R	PG1464	.047	.005	.075	.195	.344
KNP-3047L	PG1465	.047	.005	.075	.195	.344
KNP-3062R	PG1466	.062-.078	.005	.120	.195	.344
KNP-3062L	PG1467	.062-.078	.005	.120	.195	.344
KNP-3088R	PG1472	.088-.094	.005	.180	.195	.344
KNP-3088L	PG1473	.088-.094	.005	.180	.195	.344
KNP-3097R	PG1476	.097	.010	.180	.195	.344
KNP-3097L	PG1477	.097	.010	.180	.195	.344
KNP-3185R	PG1492	.185-.189	.020	.180	.195	.344
KNP-3185L	PG1493	.185-.189	.020	.180	.195	.344
KNP-3250R	PG1496	.250	.020	.180	.250	.344
KNP-3250L	PG1497	.250	.020	.180	.250	.344
KNP-4125R	PG1498	.125	.005	.250	.255	.453
KNP-4125L	PG1499	.125	.005	.250	.255	.453
KNP-4189R	PG1500	.189	.020	.250	.255	.453
KNP-4189L	PG1501	.189	.020	.250	.255	.453

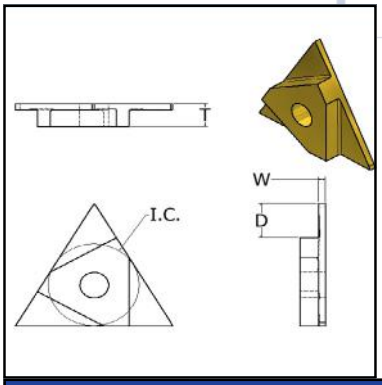
KNIGHT CARBIDE



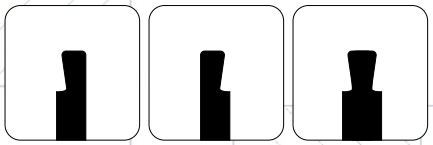


Part #	EDP #	W	R	E	T	A
KNP-4213R	PG1502	.213	.005	.250	.255	.453
KNP-4213L	PG1503	.213	.005	.250	.255	.453
KNP-4219R	PG1504	.219-.250	.020	.250	.255	.453
KNP-4219L	PG1505	.219-.250	.020	.250	.255	.453
KNP-4312R	PG1508	.312	.030	.250	.312	.453
KNP-4312L	PG1509	312	.030	.250	.312	.453
KNP-5250R	PG1510	.250	.020	.375	.380	.688
KNP-5250L	PG1511	.250	.020	.375	.380	.688
KNP-5281R	PG1512	.281-.375	.030	.375	.380	.688
KNP-5281L	PG1513	.281-.375	.030	.375	.380	.688
KNP-6281R	PG1520	.281-.375	.030	.250	.383	.453
KNP-6281L	PG1521	.281-.375	.030	.250	.383	.453

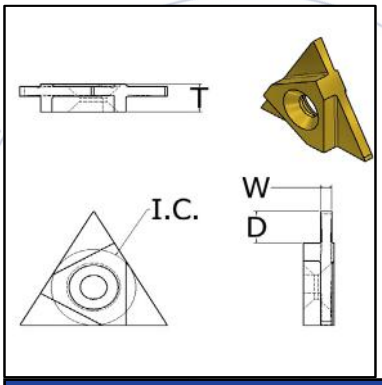
KNIGHT CARBIDE



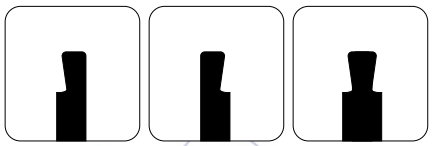
NGL NGR NGC



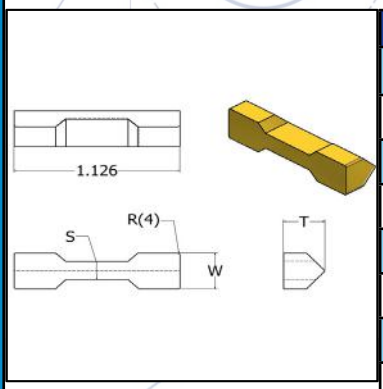
Part #	EDP #	W	D	I.C.	T
TNMA 32	PG1526	.062 - .125	.150	.375	.127
TNMA 43	PG1528	.062 - .147	.156	.500	.189
TNMA 54	PG1530	.125 - .250	.275	.625	.252
TNMA 64	PG1532	.125 - .250	.335	.750	.250
TNMA 66	PG1533	.125 - .375	.335	.750	.375



NGL NGR NGC



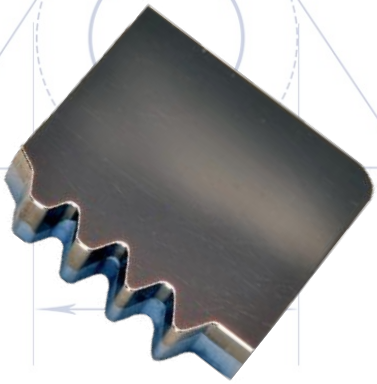
Part #	EDP #	W	D	I.C.	T
TNMC 32	PG1536	.062 - .125	.150	.375	.127
TNMC 43	PG1538	.062 - .147	.156	.500	.189
TNMC 54	PG1540	.125 - .250	.275	.625	.252
TNMC 64	PG1542	.125 - .250	.335	.750	.250
TNMC 66	PG1543	.125 - .375	.335	.750	.375

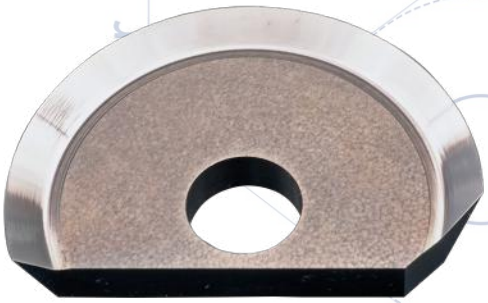


Part #	EDP #	W	S	T
KCDB 125	PG1546	.125	.106	.250
KCDB 156	PG1547	.156	.106	.250
KCDB 188	PG1548	.188	.144	.250
KCDB 218	PG1549	.218	.144	.250
KCDB 250	PG1550	.250	.144	.250
KCDB 281	PG1551	.281	.202	.337
KCDB 312	PG1552	.312	.202	.337
KCDB 344	PG1553	.344	.276	.337
KCDB 375	PG1554	.375	.276	.337

Unique Inserts





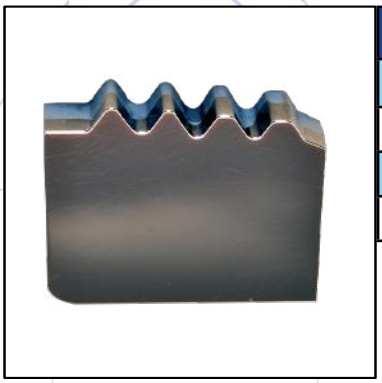




KNIGHT CARBIDE



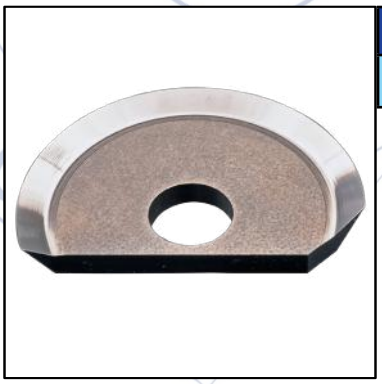
COPPER TUBE EXPANDER	EDP #	A - DIM SIZE
CTE5 “A”	PG1555	.267 / .309
CTE6 “A”	PG1556	.321 / .375



THREAD CHASERS	EDP #
Internal API Buttress	PG1557
External API Buttress	PG1558
Internal API Round	PG1559
External API Round	PG1560



GEAR BLADES	EDP #	L	W	T
GSB-R	PG1561	4.124	.520	.420
GSB-L	PG1562	4.124	.520	.420



HIP DISKS	EDP #	DIM SIZE
Medical Implant Cutting Tool	PG1563	22, 26, 28, 32, 36, 40 mm

Quote Form

Please fill out this quote form and click submit. It will e-mail to our sales department or you may reach us by telephone at (586.598.4888) or fax (586.598.1998). If you have any tool prints please send them as attachments through your e-mail provider

Tool Part #:	
Edge Prep:	
Grade:	K25K
Coating Type:	ALCrN
Quantity:	
Material Cutting:	
Company Name:	
Address:	
E-Mail:	
Phone #:	
Notes:	

Submit