iAlloys

Indexable Inserts

XKALIBUR
CARBIDE INSERTS

Interstitial Alloys is a subsidiary of the Asia Tech Group, a global holding company with six manufacturing locations and over twenty independent companies worldwide. iAlloys, based in Houston, Texas, is responsible for the logistics and distribution of cemented carbide products manufactured by Asia Tech and their affiliates.

iALLOYS PROVIDES

- Unique inventory programs that provide our customers with just-in-time deliveries
- Experienced sales and technical staff with extensive product knowledge of materials and logistics
- Manufacturing facilities that are ISO certified to ASTM standards; ISO controlled testing, evaluation and certification
- Online information system providing our customers with real-time access to inventory, shipping information, documentation, product certificates, pricing, etc.

iAlloys is dedicated to the growth and success of our customers by providing the highest quality materials, professional customer service and experienced sales support. We appreciate your interest in iAlloys and we look forward to serving your cemented carbide needs.

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ANSI Decimal Conversions

ANSI	IC	S	D	R
221	0.250	0.125	0.089	0.015
222	0.250	0.125	0.089	0.031
321	0.375	0.125	0.150	0.015
322	0.375	0.125	0.150	0.031
32.51	0.375	0.156	0.150	0.015
32.52	0.375	0.156	0.150	0.031
32.53	0.375	0.156	0.150	0.047
331	0.375	0.187	0.150	0.015
332	0.375	0.187	0.150	0.031
333	0.375	0.187	0.150	0.047
334	0.375	0.187	0.150	0.062
336	0.375	0.187	0.150	0.094
431	0.500	0.187	0.203	0.015
432	0.500	0.187	0.203	0.031
433	0.500	0.187	0.203	0.047
434	0.500	0.187	0.203	0.062
441	0.500	0.250	0.203	0.015
442	0.500	0.250	0.203	0.031
443	0.500	0.250	0.203	0.047
444	0.500	0.250	0.203	0.062
542	0.625	0.250	0.250	0.031
543	0.625	0.250	0.250	0.047
544	0.625	0.250	0.250	0.062
545	0.625	0.250	0.250	0.079
546	0.625	0.250	0.250	0.094
548	0.625	0.250	0.250	0.118
642	0.750	0.250	0.313	0.031
643	0.750	0.250	0.313	0.047
644	0.750	0.250	0.313	0.062
645	0.750	0.250	0.313	0.079
646	0.750	0.250	0.313	0.094
856	1.000	0.313	0.359	0.094
866	1.000	0.375	0.359	0.094
43	0.500	0.187	0.203	
1.21.21	0.156	0.078	0.087	0.015
1.21.22	0.156	0.078	0.087	0.031
1.81.50.5	0.219	0.094	0.098	0.008
1.81.51	0.219	0.094	0.098	0.015
1.81.51	0.219	0.094	0.098	0.031
21.50.5	0.250	0.094	0.110	0.008
21.51	0.250	0.094	0.110	0.015
21.52	0.250	0.094	0.110	0.031
220.5	0.250	0.125	0.111	0.008
221	0.250	0.125	0.110	0.015
222	0.250	0.125	0.110	0.031

ANSI	IC	S	D	R	IW
32.50.5	0.375	0.156	0.173	0.008	
32.51	0.375	0.156	0.173	0.015	
32.52	0.375	0.156	0.173	0.031	
32.53	0.375	0.156	0.173	0.047	
330.5	0.375	0.187	0.173	0.008	
331	0.375	0.187	0.173	0.015	
332	0.375	0.187	0.173	0.031	
333	0.375	0.187	0.173	0.047	
430.5	0.500	0.187	0.219	0.008	
431	0.500	0.187	0.219	0.015	
432	0.500	0.187	0.219	0.031	
433	0.500	0.187	0.219	0.047	
43.575	0.500	0.219	0.217	0.118	
124005N-A	0.658	0.488	0.476	0.217	0.020
124005R-B	0.658	0.488	0.476	0.217	0.016
30003	0.433	0.122	0.012	0.173	
40003	0.433	0.162	0.012	0.195	
50003	0.433	0.201	0.012	0.197	
64003	0.433	0.252	0.012	0.208	
100005	0.638	0.388	0.020	0.329	
040004N	1.004	0.158	0.016	0.186	0.236
050000N	0.990	0.199	0.234	0.266	
220.5	0.250	0.094	0.110	0.008	
221	0.250	0.094	0.110	0.015	
222	0.250	0.094	0.110	0.031	
11T304	0.482	0.142	0.110	0.015	0.256
11T308	0.482	0.142	0.110	0.031	0.256
11T312	0.482	0.142	0.110	0.047	0.256
11T316	0.482	0.142	0.110	0.063	0.256
11T408	0.704	0.227	0.173	0.031	0.366
10T3	0.394	0.156	0.173	0.197	
1204	0.472	0.187	0.173	0.236	
2507	0.984	0.312	0.291	0.492	
3209	1.260	0.375	0.374	0.630	
803	0.315	0.125	0.134	0.157	
10T3	0.394	0.156	0.173	0.197	
1204	0.472	0.187	0.173	0.236	
1605	0.630	0.218	0.217	0.315	
2006	0.787	0.250	0.256	0.393	

Turning Inserts

Negative Angle
Rough Machining

	CNMG-GR	CNMM-GR	CNMG-BR	CNMG-ZR	DNMG-GR	DNMM-GR
Cutting Edge	12, 16, 19	12, 16, 19, 25	12, 16, 19	25	15	15
SS / DS	SS	DS	SS	DS	SS	DS
Page	1	1	1	1	1	1

	DNMG-BR	DNMG-ZR	SNMG-GR	SNMM-BR	SNMG-BR	SNMG-ZR	TNMG-GR
Cutting Edge	15	15	12, 15, 19	12, 15, 19, 25	12, 15, 19	25	16, 22, 27
SS / DS	SS	DS	SS	DS	SS	DS	DS
Page	1	1	1	1	1	1	1

	TNMM-GR	TNMG-BR	TNMG-ZR	WNMG-GR	WNMG-BR	WNMG-ZR
Cutting Edge	16, 22, 27	16, 22	06, 08	06, 08	06, 08	
SS / DS	SS	DS	SS	DS	SS	DS
Page	1	1	1	1	1	1

General Chip Breaker

	CNMG	DNMG	SNMG	TNMG	VNMG
Cutting Edge	12, 16, 19	12, 19	15, 19	09, 12, 15	09, 12, 15, 25
SS / DS	SS	DS	SS	DS	SS
Page	1	1	1	1	1

Turning Inserts

Negative Angle
Finish Machining

	CNMG-GF	CNMG-BF	DNMG-GF	DNMG-BF	SNMG-GF	SNMG-BF
Cutting Edge	09, 12	12, 16	09, 12	09, 12	11, 15	11, 15
SS / DS	SS	DS	SS	DS	SS	DS
Page	1	1	1	1	1	1

	TNMG-GF	TNMG-BF	VNMG-GF	VNMG-BF	WNMG-GF	WNMG-BF
Cutting Edge	11, 15	11, 15	16	16	09, 12, 15	09, 12, 15
SS / DS	SS	DS	SS	DS	SS	DS
Page	1	1	1	1	1	1

Semi-Finish Machining

	CNMG-GM	CNMG-BM	DNMG-GM	DNMG-BM	SNMG-GM	SNMG-BM
Cutting Edge	09, 12, 16	09, 12, 15, 19	12, 16	09, 12	11, 15	11, 15
SS / DS	SS	DS	SS	DS	SS	DS
Page	1	1	1	1	1	1

	TNMG-GM	TNMG-BM	VNMG-GM	VNMG-BB	WNMG-GM	WNMG-BM
Cutting Edge	09, 12, 15	09, 12, 15, 19	12, 16	16	11, 16, 22	16
SS / DS	SS	DS	SS	DS	SS	DS
Page	1	1	1	1	1	1

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Turning Inserts

Negative Angle
Rough Machining

	CNMG-GR	CNMM-GR	CNMG-BR	CNMG-ZR	DNMG-GR	DNMM-GR
Cutting Edge	12, 16, 19	12, 16, 19, 25	12, 16, 19	25	15	15
SS / DS	SS	DS	SS	DS	SS	DS
Page	1	1	1	1	1	1

	DNMG-BR	DNMG-ZR	SNMG-GR	SNMM-BR	SNMG-BR	SNMG-ZR	TNMG-GR
Cutting Edge	15	15	12, 15, 19	12, 15, 19, 25	12, 15, 19	25	16, 22, 27
SS / DS	SS	DS	SS	DS	SS	DS	DS
Page	1	1	1	1	1	1	1

	TNMM-GR	TNMG-BR	TNMG-ZR	WNMG-GR	WNMG-BR	WNMG-ZR
Cutting Edge	16, 22, 27	16, 22	06, 08	06, 08	06, 08	
SS / DS	SS	DS	SS	DS	SS	DS
Page	1	1	1	1	1	1

General Chip Breaker

	CNMG	DNMG	SNMG	TNMG	VNMG
Cutting Edge	12, 16, 19	12, 19	15, 19	09, 12, 15	09, 12, 15, 25
SS / DS	SS	DS	SS	DS	SS
Page	1	1	1	1	1

Turning Inserts

Negative Angle
Without Chip Breaker

	CNMA	DNMA	SNMA	TNMA	WNMA	RNMA
Cutting Edge	12, 16, 19	11, 15	09, 12, 15, 19	09, 12, 16	16, 22, 27	11, 16, 22
SS / DS	SS	DS	SS	DS	SS	DS
Page	1	1	1	1	1	1

Positive Angle
Finish Machining

	CCGT-GF	DCGT-GF	SCGT-GF	TCGT-GF	VCGT-GF
Cutting Edge	06, 09, 12	06, 09, 12	07, 11	07, 11	09
SS / DS	SS	DS	SS	DS	SS
Page	1	1	1	1	1

	CPGT-GF	DPGT-GF	SPGT-GF	TPGT-GF	VBGT-GF
Cutting Edge	09	06, 09, 11, 16	06, 09, 11, 16	09, 11	11
SS / DS	SS	DS	SS	DS	SS
Page	1	1	1	1	1

Semi-Finish Machining

	CCMT-GM	DCMT-GM	SCMT-GM	TCMT-GM	VCMT-GM
Cutting Edge	06, 09, 12	06, 09, 12	07, 11	07, 11	09, 12
SS / DS	SS	DS	SS	DS	SS
Page	1	1	1	1	1

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Turning Inserts

Positive Angle
Semi-Finish Machining

	CPMT-GM	DPMT-GM	SPMT-GM	TPMT-GM	VBMT-GM
Cutting Edge	09, 12	09, 11, 16	09, 11, 16, 22	09, 11	16
SS / DS	SS	DS	SS	DS	SS
Page	1	1	1	1	1

Aluminum Machining

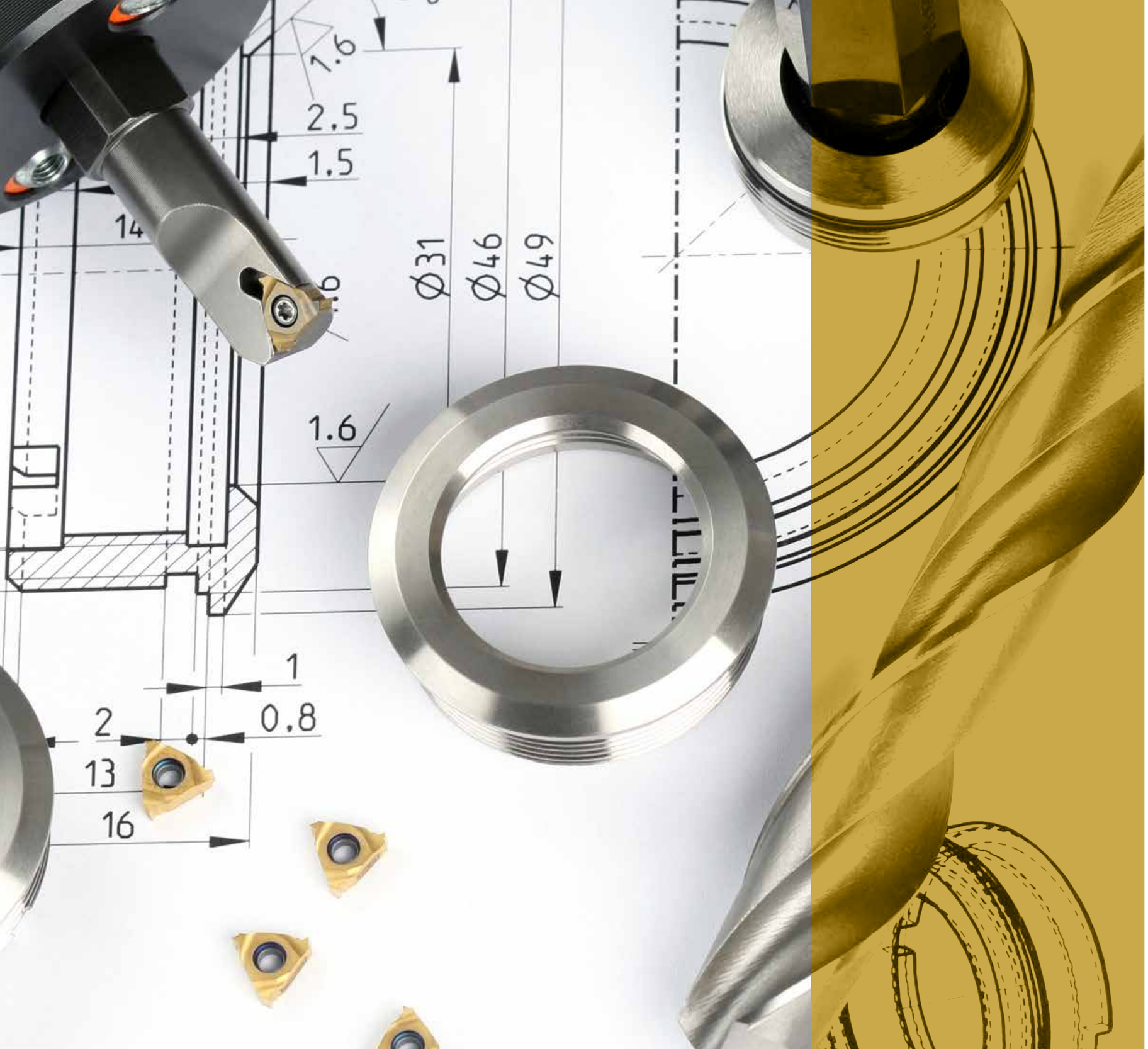
	CCGX-AL	DCGX-AL	SCGX-AL	TCGX-AL	VCGX-AL
Cutting Edge	06, 09, 12	07, 11	09, 12	09, 11, 16	16, 22
SS / DS	SS	DS	SS	DS	SS
Page	1	1	1	1	1

General Chip Breaker

	CCGW	DCGW	TCGW	CPGW
Cutting Edge	09, 12	07, 11	06, 09, 12	09, 11
SS / DS	SS	DS	SS	DS
Page	1	1	1	1

Without Chip Breaker

	CPGW	SPGW	TPGW	VBGW
Cutting Edge	16	09, 12	09, 11, 16, 22	16
SS / DS	SS	DS	SS	DS
Page	1	1	1	1



Turning Inserts

CN	CNMG, CNMM, CNMA	12 - 14
DN	DNMG, DNMM, DNMA	14 - 17
RN	RNMA	17
SN	SNMG, SNMM, SNMA	18 - 21
TN	TNMG, TNMM, TNMA	22 - 24
VN	VNMG	25
WN	WNMG, WNMA	25 - 27

Turning Inserts Code System

Code	Insert Shape
H	
O	
P	
R	
S	
T	
C	
D	
E	
M	
V	
L	
A	
B	
K	
W	
Z	Others

1. Shape Code

Tolerance					Details of Accuracy (M Class)						
Code	Tolerance on m	Tolerance on I.C	Tolerance on S		Inscribed Circle I.C	Triangle	Square	Rhombus 80	Rhombus 55	Rhombus 35	Round
A	±0.005	±0.025	±0.025	Tolerance on m	6.35	±0.08	±0.08	±0.08	±0.11	±0.16	—
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	±0.00	—
F	±0.005	±0.013	±0.025		9.525	±0.08	±0.08	±0.08	±0.11	±0.16	—
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	±0.00	—
C	±0.013	±0.025	±0.025		12.7	±0.13	±0.13	±0.13	±0.15	—	—
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	—	—
H	±0.013	±0.013	±0.025		15.875	±0.15	±0.15	±0.15	±0.18	—	—
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	—	—
E	±0.025	±0.025	±0.025		19.05	±0.15	±0.15	±0.15	±0.18	—	—
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	—	—
G	±0.025	±0.025	±0.013		25.4	—	±0.18	—	—	—	—
	±0.000	±0.000	±0.000		0	—	±0.00	—	—	—	—
J	±0.005	±0.05 - ±0.13	±0.025	Tolerance on I.C	6.35	±0.05	±0.05	±0.05	±0.05	±0.05	—
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	±0.00	—
K	±0.013	±0.05 - ±0.13	±0.025		9.525	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	±0.00	±0.00
L	±0.25	±0.05 - ±0.13	±0.025		12.7	±0.08	±0.08	±0.08	±0.08	—	±0.08
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	—	±0.00
M	±0.08 - ±0.18	±0.05 - ±0.13	±0.013		15.875	±0.10	±0.10	±0.10	±0.10	—	±0.10
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	—	±0.00
N	±0.08 - ±0.18	±0.05 - ±0.13	±0.025		19.05	±0.10	±0.10	±0.10	±0.10	—	±0.10
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	—	±0.00
U	±0.13 - ±0.38	±0.08 - ±0.25	±0.013		25.4	—	±0.13	—	—	—	±0.13
	±0.000	±0.000	±0.000		0	—	±0.00	—	—	—	±0.00

3. Tolerance

1. C 2. N 3. M 4. G

2. Back Angle		
Code	Back Angle	
A		3
B		5
C		7
D		15
E		20
F		25
G		30
N		0
P		11
O	Others	

4. Cross Section Type									
Code	Hole	Hole Shape	Chip Breaker	Insert Section	Code	Hole	Hole Shape	Chip Breaker	Insert Section
B	Yes	Cylindrical One Side Chamber (>65°)	No		N	No	—	No	
H	Yes		One Side		R	No	—	One Side	
C	Yes	Cylindrical Two Sides Chamber (>65°)	No		F	No	—	Two Sides	
J	Yes		Two Sides		A	Yes	Cylindrical	No	
W	Yes	Cylindrical One Side Chamber (<65°)	No		M	Yes	Cylindrical	One Side	
T	Yes		One Side		G	Yes	Cylindrical	Two Sides	
Q	Yes	Cylindrical Two Sides Chamber (<65°)	No		X	—	—	—	Special
U	Yes		Two Sides						

Turning Inserts Code System

Insert Shape								Inscribed Circle (d) (mm)
C	D	R	S	T	V	W	K	
				06				3.97
		05						5.0
				09				5.56
		06						6.0
06	07			11	11			6.35
		08						8.0
09	11	09	09	16	16	06	16	9.525
		10						10.0
		12						12.0
12	15	12	12	22	22	08		12.7
16		15	15	27				15.875
	19	16						16.0
19		19	19	33				19.05
		20						20.0
25	25	25						25.0
		25	25					25.4
		31						31.75
		32						32

5. Cutting Edge

Code	Thickness t (mm)
00	0.79
T0	0.99
01	1.59
T1	1.98
02	2.38
T2	2.58
03	3.18
T3	3.97
04	4.76
T4	4.96
05	5.96
T5	5.95
06	6.35
T6	6.75
07	7.94
09	9.52
T9	9.72
11	11.11
12	12.70

6. Thickness

4 3 2 (inch) 5. 12 6. 04 7. 08 — 8. GM (ISO)

Inscribed Circle Diameter	
Code (in)	Inscribed Circle Diameter (mm)
2	6.35
3	9.525
4	12.7
5	15.875
6	19.05
8	25.4

Thickness	
Code (in)	Thickness (mm)
2	3.18
3	4.76
4	6.35
5	7.94
6	9.52

Nose Radius	
Code (in)	Nose Radius (mm)
0	0.2
1	0.4
2	0.8
3	1.2
4	1.6
5	2.0
6	2.4

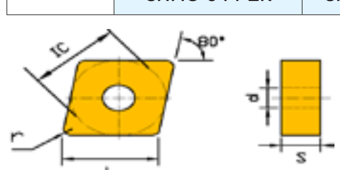
7. Nose Radius Code	
Code	Nose Radius (mm)
00	0.0
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
20	2.0
24	2.4
32	3.2
X	Others
Diameter Mo (Metric)	Round Inserts

8. Chip Breaker for Turning		
GF	GM	GR
GF	GM	ZR
BF	BM	BR

CN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																						
			IC	S	d	r	CVD															PVD				Uncoated			
							XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	CNMG-321-GR	CNMG090304-GR	9.525	3.18	3.81	0.4																							
	CNMG-322-GR	CNMG090308-GR	9.525	3.18	3.81	0.8																							
	CNMG-431-GR	CNMG120404-GR	12.7	4.76	5.16	0.4																							
	CNMG-432-GR	CNMG120408-GR	12.7	4.76	5.16	0.8																							
	CNMG-433-GR	CNMG120412-GR	12.7	4.76	5.16	1.2																							
	CNMM-433-GR	CNMM120412-GR	12.7	4.76	5.16	1.2																							
	CNMM-543-GR	CNMM160612-GR	15.875	6.35	6.35	1.2																							
	CNMM-544-GR	CNMM160616-GR	15.875	6.35	6.35	1.6																							
	CNMM-643-GR	CNMM190612-GR	19.05	6.35	7.94	1.2																							
	CNMM-644-GR	CNMM190616-GR	19.05	6.35	7.94	1.6																							
	CNMM-646-GR	CNMM190624-GR	19.05	6.35	7.94	2.4																							
	CNMM-866-GR	CNMM250924-GR	25.4	9.525	9.12	2.4																							
	CNMG-432-BR	CNMG120408-BR	12.7	4.76	5.16	0.8																							
	CNMG-433-BR	CNMG120412-BR	12.7	4.76	5.16	1.2																							
	CNMG-434-BR	CNMG120416-BR	12.7	4.76	5.16	1.6																							
	CNMG-542-BR	CNMG160608-BR	15.875	6.35	6.35	0.8																							
	CNMG-543-BR	CNMG160612-BR	15.875	6.35	6.35	1.2																							
	CNMG-544-BR	CNMG160616-BR	15.875	6.35	6.35	1.6																							
	CNMG-642-BR	CNMG190608-BR	19.05	6.35	7.94	0.8																							
	CNMG-643-BR	CNMG190612-BR	19.05	6.35	7.94	1.2																							
	CNMG-644-BR	CNMG190616-BR	19.05	6.35	7.94	1.6																							
	CNMG-646-BR	CNMG190624-BR	19.05	6.35	7.94	2.4																							
	CNMG-431-ZR	CNMG120404-ZR	12.7	4.76	5.16	0.4																							
	CNMG-432-ZR	CNMG120408-ZR	12.7	4.76	5.16	0.8																							
	CNMG-433-ZR	CNMG120412-ZR	12.7	4.76	5.16	1.2																							
	CNMG-434-ZR	CNMG120416-ZR	12.7	4.76	5.16	1.6																							
	CNMG-542-ZR	CNMG160608-ZR	0	0	0	0																							
	CNMG-543-ZR	CNMG160612-ZR	15.875	6.35	6.35	1.2																							
	CNMG-544-ZR	CNMG160616-ZR	15.875	6.35	6.35	1.6																							
	CNMG-642-ZR	CNMG190608-ZR	19.05	6.35	7.94	0.8																							
	CNMG-643-ZR	CNMG190612-ZR	19.05	6.35	7.94	1.2																							
	CNMG-644-ZR	CNMG190616-ZR	19.05	6.35	7.94	1.6																							



Material			XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	P	Steel																							
	M	Stainless Steel																							
	K	Cast Iron																							
	N	Non-ferrous Metal																							
	S	Titanium Alloy																							

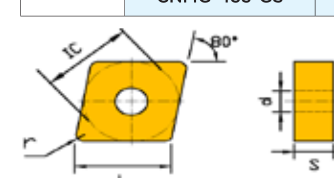
+ Recommended / ~ General Purpose

iAlloys INTERSTITIAL ALLOYS

CN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																						
			IC	S	d	r	CVD															PVD				Uncoated			
							XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	CNMG-431	CNMG120404	12.7	4.76	5.16	0.4																							
	CNMG-432	CNMG120408	12.7	4.76	5.16	0.8																							
	CNMG-433	CNMG120412	12.7	4.76	5.16	1.2																							
	CNMG-542	CNMG160608	15.875	6.35	6.35	0.8																							
	CNMG-543	CNMG160612	15.875	6.35	6.35	1.2																							
	CNMG-544	CNMG160616	15.875	6.35	6.35	1.6																							
	CNMG-642	CNMG190608	19.05	6.35	7.94	0.8																							
	CNMG-643	CNMG190612	19.05	6.35	7.94	1.2																							
	CNMG-644	CNMG190616	19.05	6.35	7.94	1.6																							
	CNMA-431	CNMA120404	12.7	4.76	5.16	0.4																							
	CNMA-432	CNMA120408	12.7	4.76	5.16	0.8																							
	CNMA-433	CNMA120412	12.7	4.76	5.16	1.2																							
	CNMA-434	CNMA120416	12.7	4.76	5.16	1.6																							
	CNMA-542	CNMA160608	15.875	6.35	6.35	0.8																							
	CNMA-543	CNMA160612	15.875	6.35	6.35	1.2																							
	CNMA-544	CNMA160616	15.875	6.35	6.35	1.6																							
	CNMA-545	CNMA160620	15.875	6.35	6.35	2.0																							
	CNMA-548	CNMA160630	15.875	6.35	6.35	3.0																							
	CNMA-644	CNMA190612	19.05	6.35	7.94	1.2																							
	CNMA-645	CNMA190616	19.05	6.35	7.94	1.6																							
	CNMG-321-GM	CNMG090304-GM	9.525	3.18	3.81	0.4	●		●					○							●								
	CNMG-322-GM	CNMG090308-GM	9.525	3.18	3.81	0.8	○		●		○			●							●								
	CNMG-431-GM	CNMG120404-GM	12.7	4.76	5.16	0.4	●		●		●			○							●								
	CNMG-432-GM	CNMG120408-GM	12.7	4.76	5.16	0.8	●		●		●			●							●	○							
	CNMG-433-GM	CNMG120412-GM	12.7	4.76	5.16	1.2	○		●		○			○							●								
	CNMG-321-GS	CNMG090304-GS	9.525	3.18	3.81	0.4																							
	CNMG-322-GS	CNMG090308-GS	9.525	3.18	3.81	0.8																							
	CNMG-431-GS	CNMG120404-GS	12.7	4.76	5.16	0.4																							
	CNMG-432-GS	CNMG120408-GS	12.7	4.76	5.16	0.8																							
	CNMG-433-GS	CNMG120412-GS	12.7	4.76	5.16	1.2																							



Material			XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	P	Steel	+		~													~				+			
	M	Stainless Steel										~				~		~							
	K	Cast Iron								+															
	N	Non-ferrous Metal																							
	S	Titanium Alloy																							

+ Recommended / ~ General Purpose

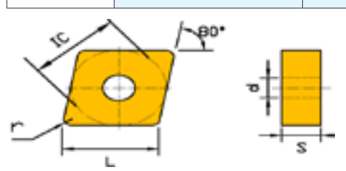
XKALIBUR CARBIDE INSERTS

Turning Inserts

CN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																						
			IC	S	d	r	CVD															PVD				Uncoated			
							XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	CNMG-321-BM	CNMG090304-BM	9.525	3.18	3.81	0.4																							
	CNMG-322-BM	CNMG090308-BM	9.525	3.18	3.81	0.8																							
	CNMG-431-BM	CNMG120404-BM	12.7	4.76	5.16	0.4																							
	CNMG-432-BM	CNMG120408-BM	12.7	4.76	5.16	0.8																							
	CNMG-433-BM	CNMG120412-BM	12.7	4.76	5.16	1.2																							
	CNMG-321-GF	CNMG090304-GF	9.525	3.18	3.81	0.4																							
	CNMG-322-GF	CNMG090308-GF	9.525	3.18	3.81	0.8																							
	CNMG-431-GF	CNMG120404-GF	12.7	4.76	5.16	0.4																							
	CNMG-432-GF	CNMG120408-GF	12.7	4.76	5.16	0.8																							
	CNMG-433-GF	CNMG120412-GF	12.7	4.76	5.16	1.2																							
	CNMG-321-BF	CNMG090304-BF	9.525	3.18	3.81	0.4																							
	CNMG-322-BF	CNMG090308-BF	9.525	3.18	3.81	0.8																							
	CNMG-431-BF	CNMG120404-BF	12.7	4.76	5.16	0.4																							
	CNMG-432-BF	CNMG120408-BF	12.7	4.76	5.16	0.8																							
	CNMG-433-BF	CNMG120412-BF	12.7	4.76	5.16	1.2																							



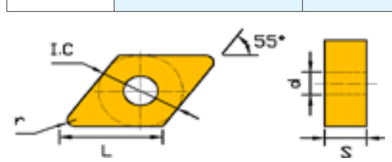
Material	P	Steel																							
	M	Stainless Steel																							
	K	Cast Iron																							
	N	Non-ferrous Metal																							
	S	Titanium Alloy																							

+ Recommended / ~ General Purpose

DN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																						
			IC	S	d	r	CVD															PVD				Uncoated			
							XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	DNMG-432-GR	DNMG150408-GR	12.7	4.76	5.16	0.8																							
	DNMG-433-GR	DNMG150412-GR	12.7	4.76	5.16	1.2																							
	DNMG-434-GR	DNMG150416-GR	12.7	4.76	5.16	1.6																							
	DNMG-442-GR	DNMG150608-GR	12.7	4.76	5.16	0.8																							
	DNMG-443-GR	DNMG150612-GR	12.7	6.35	5.16	1.2																							
	DNMG-444-GR	DNMG150616-GR	12.7	6.35	5.16	1.6																							



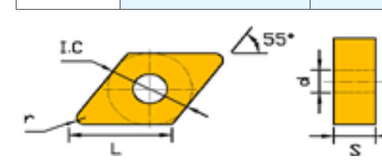
Material	P	Steel																							
	M	Stainless Steel																							
	K	Cast Iron																							
	N	Non-ferrous Metal																							
	S	Titanium Alloy																							

+ Recommended / ~ General Purpose

DN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																						
			IC	S	d	r	CVD															PVD				Uncoated			
							XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	DNMM-442-GR	DNMM150608-GR	12.7	6.35	5.16	0.8																							
	DNMM-443-GR	DNMM150612-GR	12.7	6.35	5.16	1.2																							
	DNMM-444-GR	DNMM150616-GR	12.7	6.35	5.16	1.6																							
	DNMM-442-BR	DNMM150608-BR	12.7	6.35	5.16	0.8																							
	DNMM-443-BR	DNMM150612-BR	12.7	6.35	5.16	1.2																							
	DNMM-444-BR	DNMM150616-BR	12.7	6.35	5.16	1.6																							
	DNMG-442-ZR	DNMG150608-ZR	12.7	6.35	5.16	0.8																							
	DNMG-443-ZR	DNMG150612-ZR	12.7	6.35	5.16	1.2																							
	DNMG-441	DNMG150604	12.7	6.35	5.16	0.4																							
	DNMG-442	DNMG150608	12.7	6.35	5.16	0.8																							
	DNMG-443	DNMG150612	12.7	6.35	5.16	1.2																							
	DNMG-444	DNMG150616	12.7	6.35	5.16	1.6																							
	DNMG-542	DNMG190608	15.875	6.35	7.94	0.8																							
	DNMG-544	DNMG190612	15.875	6.35	7.94	0.8																							
	DNMA-334	DNMA110416	9.525	4.76	3.81	1.6																							
	DNMA-336	DNMA110424	9.525	4.76	3.81	2.4																							
	DNMA-431	DNMA150404	12.7	4.76	5.16	0.4																							
	DNMA-432	DNMA150408	12.7	4.76	5.16	0.8																							
	DNMA-441	DNMA150604	12.7	6.35	5.16	0.4																							
	DNMA-442	DNMA150608	12.7	6.35	5.16	0.8																							
	DNMA-443	DNMA150612	12.7	6.35	5.16	1.2																							
	DNMA-444	DNMA150616	12.7	6.35	5.16	1.6																							
	DNMG-333-GS	DNMG110412-GS	9.525	4.76	3.81	1.2																							
	DNMG-431-GS	DNMG150404-GS	12.7	4.76	5.16	0.4																							
	DNMG-432-GS	DNMG150408-GS	12.7	4.76	5.16	0.8																							
	DNMG-433-GS	DNMG150412-GS	12.7	4.76	5.16	1.2																							
	DNMG-434-GS	DNMG150416-GS	12.7	4.76	5.16	1.6																							
	DNMG-441-GS	DNMG150604-GS	12.7	6.35	5.16	0.4																							
	DNMG-442-GS	DNMG150608-GS	12.7	6.35	5.16	0.8																							
	DNMG-443-GS	DNMG150612-GS	12.7	6.35	5.16	1.2																							
	DNMG-444-GS	DNMG150616-GS	12.7	6.35	5.16	1.6																							



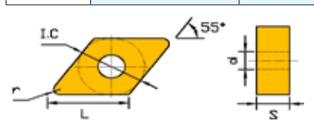
Material	P	Steel																							
	M	Stainless Steel																							
	K	Cast Iron																							
	N	Non-ferrous Metal																							
	S	Titanium Alloy																							

+ Recommended / ~ General Purpose

DN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm) IC	S	d	r	Coated Carbide CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	DNMG-331-GM	DNMG110404-GM	9.525	4.76	3.81	0.4																							
	DNMG-332-GM	DNMG110408-GM	9.525	4.76	3.81	0.8																							
	DNMG-333-GM	DNMG110412-GM	9.525	4.76	3.81	1.2																							
	DNMG-431-GM	DNMG150404-GM	12.7	4.76	5.16	0.4																							
	DNMG-432-GM	DNMG150408-GM	12.7	4.76	5.16	0.8																							
	DNMG-433-GM	DNMG150412-GM	12.7	4.76	5.16	1.2																							
	DNMG-434-GM	DNMG150416-GM	12.7	4.76	5.16	1.6																							
	DNMG-441-GM	DNMG150604-GM	12.7	6.35	5.16	0.4																							
	DNMG-442-GM	DNMG150608-GM	12.7	6.35	5.16	0.8																							
	DNMG-443-GM	DNMG150612-GM	12.7	6.35	5.16	1.2																							
	DNMG-444-GM	DNMG150616-GM	12.7	6.35	5.16	1.6																							
	DNMG-333-BM	DNMG110412-BM	9.525	4.76	3.81	1.2																							
	DNMG-431-BM	DNMG150404-BM	12.7	4.76	5.16	0.4																							
	DNMG-432-BM	DNMG150408-BM	12.7	4.76	5.16	0.8																							
	DNMG-433-BM	DNMG150412-BM	12.7	4.76	5.16	1.2																							
	DNMG-434-BM	DNMG150416-BM	12.7	4.76	5.16	1.6																							
	DNMG-441-BM	DNMG150604-BM	12.7	6.35	5.16	0.4																							
	DNMG-442-BM	DNMG150608-BM	12.7	6.35	5.16	0.8																							
	DNMG-443-BM	DNMG150612-BM	12.7	6.35	5.16	1.2																							
	DNMG-444-BM	DNMG150616-BM	12.7	6.35	5.16	1.6																							
	DNMG-331-GF	DNMG110404-GF	9.525	4.76	3.81	0.4																							
	DNMG-332-GF	DNMG110408-GF	9.525	4.76	3.81	0.8																							
	DNMG-333-GF	DNMG110412-GF	9.525	4.76	3.81	1.2																							
	DNMG-431-GF	DNMG150404-GF	12.7	4.76	5.16	0.4																							
	DNMG-432-GF	DNMG150408-GF	12.7	4.76	5.16	0.8																							
	DNMG-433-GF	DNMG150412-GF	12.7	4.76	5.16	1.2																							
	DNMG-441-GF	DNMG150604-GF	12.7	6.35	5.16	0.4																							
	DNMG-442-GF	DNMG150608-GF	12.7	6.35	5.16	0.8																							
	DNMG-443-GF	DNMG150612-GF	12.7	6.35	5.16	1.2																							



Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

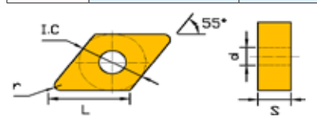
+ Recommended / ~ General Purpose

Turning Inserts

DN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm) IC	S	d	r	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	DNMG-331-BF	DNMG110404-BF	9.525	4.76	3.81	0.4																							
	DNMG-332-BF	DNMG110408-BF	9.525	4.76	3.81	0.8																							
	DNMG-333-BF	DNMG110412-BF	9.525	4.76	3.81	1.2																							
	DNMG-431-BF	DNMG150404-BF	12.7	4.76	5.16	0.4																							
	DNMG-432-BF	DNMG150408-BF	12.7	4.76	5.16	0.8																							
	DNMG-433-BF	DNMG150412-BF	12.7	4.76	5.16	1.2																							
	DNMG-441-BF	DNMG150604-BF	12.7	6.35	5.16	0.4																							
	DNMG-442-BF	DNMG150608-BF	12.7	6.35	5.16	0.8																							
	DNMG-443-BF	DNMG150612-BF	12.7	6.35	5.16	1.2																							



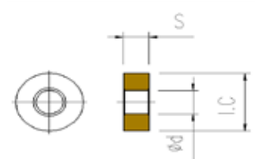
Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

+ Recommended / ~ General Purpose

RN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm) IC	S	d	r	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	RNMA-43	RNMA120400	12.7	4.76	5.16																								



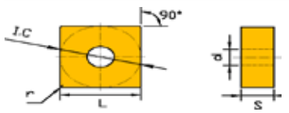
Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

+ Recommended / ~ General Purpose

SN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm)				Coating																					
							CVD														PVD				Uncoated			
			IC	S	d	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	SNMG-432-GR	SNMG120408-GR	12.7	4.76	5.15	0.8																							
	SNMG-433-GR	SNMG120412-GR	12.7	4.76	5.16	1.2																							
	SNMG-434-GR	SNMG120416-GR	12.7	4.76	5.16	1.6																							
	SNMG-542-GR	SNMG150608-GR	15.875	6.35	6.35	0.8																							
	SNMG-543-GR	SNMG150612-GR	15.875	6.35	6.35	1.2																							
	SNMG-544-GR	SNMG150616-GR	15.875	6.35	6.35	1.6																							
	SNMG-546-GR	SNMG150624-GR	15.875	6.35	6.35	2.4																							
	SNMG-643-GR	SNMG190612-GR	19.05	6.35	7.94	1.2																							
	SNMG-644-GR	SNMG190616-GR	19.05	6.35	7.94	1.6																							
	SNMG-646-GR	SNMG190624-GR	19.05	6.35	7.94	2.4																							



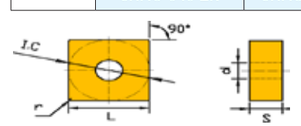
Material																												
	P	Steel																										
	M	Stainless Steel																										
	K	Cast Iron																										
	N	Non-ferrous Metal																										
	S	Titanium Alloy																										

+ Recommended / ~ General Purpose

SN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm)				Coating																					
							CVD														PVD				Uncoated			
			IC	S	d	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	SNMM-432-GR	SNMM120408-GR	12.7	4.76	5.15	0.8																							
	SNMM-433-GR	SNMM120412-GR	12.7	4.76	5.16	1.2																							
	SNMM-434-GR	SNMM120416-GR	12.7	4.76	5.16	1.6																							
	SNMM-542-GR	SNMM150608-GR	15.875	6.35	6.35	0.8																							
	SNMM-543-GR	SNMM150612-GR	15.875	6.35	6.35	1.2																							
	SNMM-544-GR	SNMM150616-GR	15.875	6.35	6.35	1.6																							
	SNMM-642-GR	SNMM190608-GR	19.05	6.35	7.94	0.8																							
	SNMM-643-GR	SNMM190612-GR	19.05	6.35	7.94	1.2																							
	SNMM-644-GR	SNMM190616-GR	19.05	6.35	7.94	1.6																							
	SNMM-646-GR	SNMM190624-GR	19.05	6.35	7.94	2.4																							
	SNMM-856-GR	SNMM250724-GR	25.4	7.94	9.12	2.4																							
	SNMM-866-GR	SNMM250924-GR	25.4	7.94	9.12	2.4																							
	SNMG-432-BR	SNMG120408-BR	12.7	4.76	5.15	0.8																							
	SNMG-433-BR	SNMG120412-BR	12.7	4.76	5.15	1.2																							
	SNMG-542-BR	SNMG150608-BR	15.875	6.35	6.35	0.8																							
	SNMG-543-BR	SNMG150612-BR	15.875	6.35	6.35	1.2																							
	SNMG-643-BR	SNMG190612-BR	19.05	6.35	7.94	1.2																							
	SNMG-644-BR	SNMG190616-BR	19.05	6.35	7.94	1.6																							
	SNMG-433-ZR	SNMG120412-ZR	12.7	4.76	5.16	1.2																							
	SNMG-542-ZR	SNMG150608-ZR	15.875	6.35	6.35	0.8																							
	SNMG-543-ZR	SNMG150612-ZR	15.875	6.35	6.35	1.2																							
	SNMG-643-ZR	SNMG190612-ZR	19.05	6.35	7.94	1.2																							



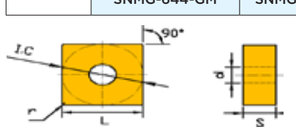
Material																												
	P	Steel																										
	M	Stainless Steel																										
	K	Cast Iron																										
	N	Non-ferrous Metal																										
	S	Titanium Alloy																										

+ Recommended / ~ General Purpose

SN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm) IC	S	d	r	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	SNMG-321	SNMG090304	9.525	3.18	3.81	0.4																							
	SNMG-322	SNMG090308	9.525	3.18	3.81	0.8																							
	SNMG-431	SNMG120404	12.7	4.76	5.16	0.4																							
	SNMG-432	SNMG120408	12.7	4.76	5.16	0.8																							
	SNMG-433	SNMG120412	12.7	4.76	5.16	1.2																							
	SNMG-434	SNMG120416	12.7	4.76	5.16	1.6																							
	SNMG-542	SNMG150608	15.875	6.35	6.35	0.8																							
	SNMG-543	SNMG150612	15.875	6.35	6.35	1.2																							
	SNMG-643	SNMG190612	19.05	6.35	7.94	1.2																							
	SNMG-644	SNMG190616	19.05	6.35	7.94	1.6																							
	SNMG-856	SNMG250724	25.4	7.94	9.12	2.4																							
	SNMG-866	SNMG250924	25.4	7.94	9.12	2.4																							
	SNMA-321	SNMA090304	9.525	3.18	3.81	0.4																							
	SNMA-322	SNMA090308	9.525	3.18	3.81	0.8																							
	SNMA-431	SNMA120404	12.7	4.76	5.16	0.4																							
	SNMA-432	SNMA120408	12.7	4.76	5.16	0.8																							
	SNMA-434	SNMA120416	12.7	4.76	5.16	1.6																							
	SNMA-542	SNMA150608	15.875	6.35	6.35	0.8																							
	SNMA-643	SNMA190612	19.05	6.35	7.94	1.2																							
	SNMA-644	SNMA190616	19.05	6.35	7.94	1.6																							
	SNMG-321-GM	SNMG090304-GM	9.525	3.18	3.81	0.4																							
	SNMG-322-GM	SNMG090308-GM	9.525	3.18	3.81	0.8																							
	SNMG-431-GM	SNMG120404-GM	12.7	4.76	5.16	0.4																							
	SNMG-432-GM	SNMG120408-GM	12.7	4.76	5.16	0.8																							
	SNMG-433-GM	SNMG120412-GM	12.7	4.76	5.16	1.2																							
	SNMG-434-GM	SNMG120416-GM	12.7	4.76	5.16	1.6																							
	SNMG-542-GM	SNMG150608-GM	15.875	6.35	6.35	0.8																							
	SNMG-543-GM	SNMG150612-GM	15.875	6.35	6.35	1.2																							
	SNMG-544-GM	SNMG150616-GM	15.875	6.35	6.35	1.6																							
	SNMG-643-GM	SNMG190612-GM	19.05	6.35	7.94	1.2																							
	SNMG-644-GM	SNMG190616-GM	19.05	6.35	7.94	1.6																							



Material																													
	P	Steel																											
	M	Stainless Steel																											
	K	Cast Iron																											
	N	Non-ferrous Metal																											
	S	Titanium Alloy																											

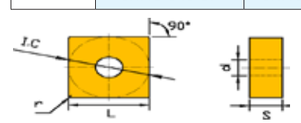
+ Recommended / ~ General Purpose

Turning Inserts

SN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm) IC	S	d	r	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	SNMG-431-GS	SNMG120404-GS	12.7	4.76	5.16	0.4																							
	SNMG-432-GS	SNMG120408-GS	12.7	4.76	5.16	0.8																							
	SNMG-433-GS	SNMG120412-GS	12.7	4.76	5.16	1.2																							
	SNMG-434-GS	SNMG120416-GS	12.7	4.76	5.16	1.6																							
	SNMG-543-GS	SNMG150612-GS	15.875	6.35	6.35	1.2																							
	SNMG-544-GS	SNMG150616-GS	15.875	6.35	6.35	1.6																							
	SNMG-431-BM	SNMG120404-BM	12.7	4.76	5.16	0.4																							
	SNMG-432-BM	SNMG120408-BM	12.7	4.76	5.16	0.8																							
	SNMG-433-BM	SNMG120412-BM	12.7	4.76	5.16	1.2																							
	SNMG-434-BM	SNMG120416-BM	12.7	4.76	5.16	1.6																							
	SNMG-543-BM	SNMG150612-BM	15.875	6.35	6.35	1.2																							
	SNMG-544-BM	SNMG150616-BM	15.875	6.35	6.35	1.6																							
	SNMG-432-GF	SNMG120408-GF	12.7	4.76	5.36	0.8																							
	SNMG-433-GF	SNMG120412-GF	12.7	4.76	5.16	1.2																							
	SNMG-321-BF	SNMG090304-BF	9.525	3.18	3.81	0.4																							
	SNMG-322-BF	SNMG090308-BF	9.525	3.18	3.81	0.8																							
	SNMG-323-BF	SNMG090312-BF	9.525	3.18	3.81	1.2																							
	SNMG-431-BF	SNMG120404-BF	12.7	4.76	5.16	0.4																							
	SNMG-432-BF	SNMG120408-BF	12.7	4.76	5.16	0.8																							
	SNMG-433-BF	SNMG120412-BF	12.7	4.76	5.16	1.2																							
	SNMG-542-BF	SNMG150608-BF	15.875	6.35	6.35	0.8																							
	SNMG-543-BF	SNMG150612-BF	15.875	6.35	6.35	1.2																							



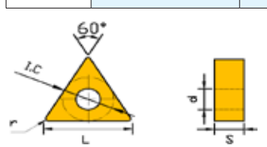
Material																													
	P	Steel																											
	M	Stainless Steel																											
	K	Cast Iron																											
	N	Non-ferrous Metal																											
	S	Titanium Alloy																											

+ Recommended / ~ General Purpose

TN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm) IC	S	d	r	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	TNMG-332-GR	TNMG160408-GR	9.525	4.76	3.81	0.8																							
	TNMG-333-GR	TNMG160412-GR	9.525	4.76	3.81	1.2																							
	TNMG-432-GR	TNMG220408-GR	12.7	4.76	5.16	0.8																							
	TNMG-433-GR	TNMG220412-GR	12.7	4.76	5.16	1.2																							
	TNMG-434-GR	TNMG220416-GR	12.7	4.76	5.16	1.6																							
	TNMG-542-GR	TNMG270608-GR	15.875	6.35	6.35	0.8																							
	TNMG-543-GR	TNMG270612-GR	15.875	6.35	6.35	1.2																							
	TNMG-544-GR	TNMG270616-GR	15.875	6.35	6.35	1.6																							
	TNMM-332-GR	TNMM160408-GR	9.525	4.76	3.81	0.8																							
	TNMM-333-GR	TNMM160412-GR	9.525	4.76	3.81	1.2																							
	TNMM-432-GR	TNMM220408-GR	12.7	4.76	5.16	0.8																							
	TNMM-433-GR	TNMM220412-GR	12.7	4.76	5.16	1.2																							
	TNMM-434-GR	TNMM220416-GR	12.7	4.76	5.16	1.6																							
	TNMM-533-GR	TNMM270412-GR	15.875	4.76	6.35	1.2																							
	TNMM-534-GR	TNMM270416-GR	15.875	4.76	6.35	1.6																							
	TNMM-543-GR	TNMM270612-GR	15.875	6.35	6.35	1.2																							
	TNMM-544-GR	TNMM270616-GR	15.875	6.35	6.35	1.6																							
	TNMM-332-BR	TNMM160408-BR	9.525	4.76	3.81	0.8																							
	TNMM-333-BR	TNMM160412-BR	9.525	4.76	3.81	1.2																							
	TNMM-432-BR	TNMM220408-BR	12.7	4.76	5.16	0.8																							
	TNMM-433-BR	TNMM220412-BR	12.7	4.76	5.16	1.2																							
	TNMG-332-ZR	TNMG160408-ZR	9.525	4.76	3.81	0.8																							
	TNMG-333-ZR	TNMG160412-ZR	9.525	4.76	3.81	1.2																							
	TNMG-432-ZR	TNMG220408-ZR	12.7	4.76	5.16	0.8																							
	TNMG-433-ZR	TNMG220412-ZR	12.7	4.76	5.16	1.2																							
	TNMG-434-ZR	TNMG220416-ZR	12.7	4.76	5.16	1.6																							



Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

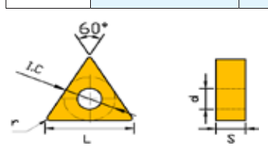
+ Recommended / ~ General Purpose

Turning Inserts

TN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm) IC	S	d	r	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	TNMA-331	TNMA160404	9.525	4.76	3.81	0.4																							
	TNMA-332	TNMA160408	9.525	4.76	3.81	0.8																							
	TNMA-333	TNMA160412	9.525	4.76	3.81	1.2																							
	TNMA-334	TNMA160416	9.525	4.76	3.81	1.6																							
	TNMA-431	TNMA220404	12.7	4.76	5.16	0.4																							
	TNMA-432	TNMA220408	12.7	4.76	5.16	0.8																							
	TNMA-544	TNMA270616	15.875	6.35	6.35	1.6																							
	TNMG-222	TNMG110308	6.35	3.18	2.26	0.8																							
	TNMG-331	TNMG160404	9.525	4.76	3.81	0.4																							
	TNMG-332	TNMG160408	9.525	4.76	3.81	0.8																							
	TNMG-333	TNMG160412	9.525	4.76	3.81	1.2																							
	TNMG-431	TNMG220404	12.7	4.76	5.16	0.4																							
	TNMG-432	TNMG220408	12.7	4.76	5.16	0.8																							
	TNMG-433	TNMG220412	12.7	4.76	5.16	1.2																							
	TNMG-434	TNMG220416	12.7	4.76	5.16	1.6																							
	TNMG-543	TNMG270612	15.875	6.35	6.35	1.2																							
	TNMG-544	TNMG270616	15.875	6.35	6.35	1.6																							
	TNMG-654	TNMG330916	19.05	9.525	7.94	1.6																							
	TNMG-656	TNMG330924	19.05	9.525	7.94	2.4																							
	TNMG-221-GM	TNMG110304-GM	6.35	3.18	2.26	0.4																							
	TNMG-222-GM	TNMG110308-GM	6.35	3.18	2.26	0.8																							
	TNMG-331-GM	TNMG160404-GM	9.525	4.76	3.81	0.4																							
	TNMG-332-GM	TNMG160408-GM	9.525	4.76	3.81	0.8																							
	TNMG-333-GM	TNMG160412-GM	9.525	4.76	3.81	1.2																							
	TNMG-432-GM	TNMG220408-GM	12.7	4.76	5.16	0.8																							
	TNMG-433-GM	TNMG220412-GM	12.7	4.76	5.16	1.2																							
	TNMG-434-GM	TNMG220416-GM	12.7	4.76	5.16	1.6																							



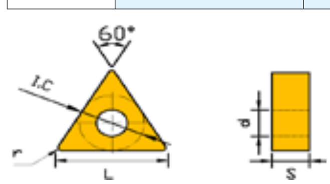
Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

+ Recommended / ~ General Purpose

TN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																						
							CVD															PVD				Uncoated			
			IC	S	d	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	TNMG-331-GS	TNMG160404-GS	9.525	4.76	3.81	0.4																						
	TNMG-332-GS	TNMG160408-GS	9.525	4.76	3.81	0.8																						
	TNMG-333-GS	TNMG160412-GS	9.525	4.76	3.81	1.2																						
	TNMG-432-GS	TNMG220408-GS	12.7	4.76	5.16	0.8																						
	TNMG-433-GS	TNMG220412-GS	12.7	4.76	5.16	1.2																						
	TNMG-434-GS	TNMG220416-GS	12.7	4.76	5.16	1.6																						
	TNMG-221-BM	TNMG110304-BM	6.35	3.18	2.26	0.4																						
	TNMG-222-BM	TNMG110308-BM	6.35	3.18	2.26	0.8																						
	TNMG-331-BM	TNMG160404-BM	9.525	4.76	3.81	0.4																						
	TNMG-332-BM	TNMG160408-BM	9.525	4.76	3.81	0.8																						
	TNMG-333-BM	TNMG160412-BM	9.525	4.76	3.81	1.2																						
	TNMG-432-BM	TNMG220408-BM	12.7	4.76	5.16	0.8																						
	TNMG-433-BM	TNMG220412-BM	12.7	4.76	5.16	1.2																						
	TNMG-434-BM	TNMG220416-BM	12.7	4.76	5.16	1.6																						
	TNMG-331-GF	TNMG160404-GF	9.525	4.76	3.81	0.4																						
	TNMG-332-GF	TNMG160408-GF	9.525	4.76	3.81	0.8																						
	TNMG-333-GF	TNMG160412-GF	9.525	4.76	3.81	1.2																						
	TNMG-432-GF	TNMG220408-GF	12.7	4.76	5.16	0.8																						
	TNMG-433-GF	TNMG220412-GF	12.7	4.76	5.16	1.2																						
	TNMG-221-BF	TNMG110304-BF	6.35	3.18	2.26	0.4																						
	TNMG-222-BF	TNMG110308-BF	6.35	3.18	2.26	0.8																						
	TNMG-331-BF	TNMG160404-BF	9.525	4.76	3.81	0.4																						
	TNMG-332-BF	TNMG160408-BF	9.525	4.76	3.81	0.8																						
	TNMG-333-BF	TNMG160412-BF	9.525	4.76	3.81	1.2																						
	TNMG-431-BF	TNMG220404-BF	12.7	4.76	5.16	0.4																						
	TNMG-432-BF	TNMG220408-BF	12.7	4.76	5.16	0.8																						
	TNMG-433-BF	TNMG220412-BF	12.7	4.76	5.16	1.2																						



Material	P	Steel																							
	M	Stainless Steel																							
	K	Cast Iron																							
	N	Non-ferrous Metal																							
	S	Titanium Alloy																							

+ Recommended / ~ General Purpose

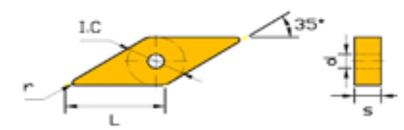
iAlloys INTERSTITIAL ALLOYS

Turning Inserts

VN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																						
							CVD															PVD				Uncoated			
			IC	S	d	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	VNMG-331	VNMG160404	9.525	4.76	3.81	0.4																						
	VNMG-332	VNMG160408	9.525	4.76	3.81	0.8																						
	VNMG-332-GM	VNMG160408-GM	9.525	4.76	3.81	0.8																						
	VNMG-333-GM	VNMG160412-GM	9.525	4.76	3.81	1.2																						
	VNMG-331-BM	VNMG160404-BM	9.525	4.76	3.81	0.4																						
	VNMG-332-BM	VNMG160408-BM	9.525	4.76	3.81	0.8																						
	VNMG-331-GF	VNMG160404-GF	9.525	4.76	3.81	0.4																						
	VNMG-332-GF	VNMG160408-GF	9.525	4.76	3.81	0.8																						
	VNMG-331-BF	VNMG160404-BF	9.525	4.76	3.81	0.4																						
	VNMG-332-BF	VNMG160408-BF	9.525	4.76	3.81	0.8																						
	VNMG-333-BF	VNMG160412-BF	9.525	4.76	3.81	1.2																						



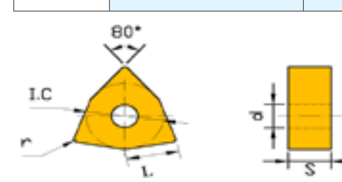
Material	P	Steel																							
	M	Stainless Steel																							
	K	Cast Iron																							
	N	Non-ferrous Metal																							
	S	Titanium Alloy																							

+ Recommended / ~ General Purpose

WN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																						
							CVD															PVD				Uncoated			
			IC	S	d	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	WNMG-332-GR	WNMG060408-GR	9.525	4.76	3.81	0.8																						
	WNMG-333-GR	WNMG060412-GR	9.525	4.76	3.81	1.2																						
	WNMG-432-GR	WNMG080408-GR	12.7	4.76	5.16	0.8																						
	WNMG-433-GR	WNMG080412-GR	12.7	4.76	5.16	1.2																						
	WNMG-434-GR	WNMG080416-GR	12.7	4.76	5.16	1.6																						



Material	P	Steel																							
	M	Stainless Steel																							
	K	Cast Iron																							
	N	Non-ferrous Metal																							
	S	Titanium Alloy																							

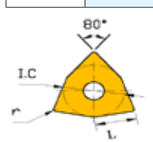
+ Recommended / ~ General Purpose

XKALIBUR CARBIDE INSERTS

WN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm) IC	S	d	r	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	WNMG-332-BR	WNMG060408-BR	9.525	4.76	3.81	0.8																							
	WNMG-333-BR	WNMG060412-BR	9.525	4.76	3.81	1.2																							
	WNMG-432-BR	WNMG080408-BR	12.7	4.76	5.16	0.8																							
	WNMG-433-BR	WNMG080412-BR	12.7	4.76	5.16	1.2																							
	WNMG-434-BR	WNMG080416-BR	12.7	4.76	5.16	1.6																							
	WNMG-333-ZR	WNMG060412-ZR	9.525	4.76	3.81	1.2																							
	WNMG-432-ZR	WNMG080408-ZR	12.7	4.76	5.16	0.8																							
	WNMG-433-ZR	WNMG080412-ZR	12.7	4.76	5.16	1.2																							
	WNMG-434-ZR	WNMG080416-ZR	12.7	4.76	5.16	1.6																							
	WNMA-32.52	WNMA06T308	9.525	3.97	3.81	0.8																							
	WNMA-331	WNMA060404	9.525	4.76	3.81	0.4																							
	WNMA-332	WNMA060408	9.525	4.76	3.81	0.8																							
	WNMA-333	WNMA060412	9.525	4.76	3.81	1.2																							
	WNMA-431	WNMA080404	12.7	4.76	5.16	0.4																							
	WNMA-432	WNMA080408	12.7	4.76	5.16	0.8																							
	WNMA-433	WNMA080412	12.7	4.76	5.16	1.2																							
	WNMA-434	WNMA080416	12.7	4.76	5.16	1.6																							
	WNMG-332	WNMG060408	9.525	4.76	3.81	0.8																							
	WNMG-333	WNMG060412	9.525	4.76	3.81	1.2																							
	WNMG-432	WNMG080408	12.7	4.76	5.16	0.8																							
	WNMG-433	WNMG080412	12.7	4.76	5.16	1.2																							
	WNMG-434	WNMG080416	12.7	4.76	5.16	1.6																							



Material			
	P	Steel	
	M	Stainless Steel	
	K	Cast Iron	
	N	Non-ferrous Metal	
	S	Titanium Alloy	

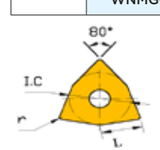
+ Recommended / ~ General Purpose

Turning Inserts

WN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm) IC	S	d	r	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	WNMG-332-GM	WNMG060408-GM	9.525	4.76	3.81	0.8																							
	WNMG-333-GM	WNMG060412-GM	9.525	4.76	3.81	1.2																							
	WNMG-431-GM	WNMG080404-GM	12.7	4.76	5.16	0.4																							
	WNMG-432-GM	WNMG080408-GM	12.7	4.76	5.16	0.8																							
	WNMG-433-GM	WNMG080412-GM	12.7	4.76	5.16	1.2																							
	WNMG-434-GM	WNMG080416-GM	12.7	4.76	5.16	1.6																							
	WNMG-442-GM	WNMG080608-GM	12.7	6.35	5.16	0.8																							
	WNMG-32.51-BM	WNMG06T304-BM	9.525	3.97	3.81	0.4																							
	WNMG-32.52-BM	WNMG06T308-BM	9.525	3.97	3.81	0.8																							
	WNMG-32.53-BM	WNMG06T312-BM	9.525	3.97	3.81	1.2																							
	WNMG-331-BM	WNMG060404-BM	9.525	4.76	3.81	0.4																							
	WNMG-332-BM	WNMG060408-BM	9.525	4.76	3.81	0.8																							
	WNMG-431-BM	WNMG080404-BM	12.7	4.76	5.16	0.4																							
	WNMG-432-BM	WNMG080408-BM	12.7	4.76	5.16	0.8																							
	WNMG-433-BM	WNMG080412-BM	12.7	4.76	5.16	1.2																							
	WNMG-32.51-GF	WNMG06T304-GF	9.525	3.97	3.81	0.4																							
	WNMG-32.52-GF	WNMG06T308-GF	9.525	3.97	3.81	0.8																							
	WNMG-32.53-GF	WNMG06T312-GF	9.525	3.97	3.81	1.2																							
	WNMG-331-GF	WNMG060404-GF	9.525	4.76	3.81	0.4																							
	WNMG-332-GF	WNMG060408-GF	9.525	4.76	3.81	0.8																							
	WNMG-333-GF	WNMG060412-GF	9.525	4.76	3.81	1.2																							
	WNMG-431-GF	WNMG080404-GF	12.7	4.76	5.16	0.4																							
	WNMG-432-GF	WNMG080408-GF	12.7	4.76	5.16	0.8																							
	WNMG-433-GF	WNMG080412-GF	12.7	4.76	5.16	1.2																							
	WNMG-32.51-BF	WNMG06T304-BF	9.525	3.97	3.81	0.4																							
	WNMG-32.52-BF	WNMG06T308-BF	9.525	3.97	3.81	0.8																							
	WNMG-32.53-BF	WNMG06T312-BF	9.525	3.97	3.81	1.2																							
	WNMG-331-BF	WNMG060404-BF	9.525	4.76	3.81	0.4																							
	WNMG-332-BF	WNMG060408-BF	9.525	4.76	3.81	0.8																							
	WNMG-431-BF	WNMG080404-BF	12.7	4.76	5.16	0.4																							
	WNMG-432-BF	WNMG080408-BF	12.7	4.76	5.16	0.8																							



Material			
	P	Steel	
	M	Stainless Steel	
	K	Cast Iron	
	N	Non-ferrous Metal	
	S	Titanium Alloy	

+ Recommended / ~ General Purpose

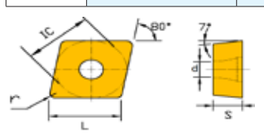
Positive Angle Inserts

CC	CCGT, CCMT, CCGX, CCMW	32 - 33
DC	DCGT, DCMT, DCGX, DCGW	33 - 34
SC	SCGT, SCMT, SCGX, SCGW	34 - 35
TC	TCGT, TCMT, TCGX, TCGW	36 - 37
VC	VCGT, VCMT, VCGX, VCGW	37
CP	CPGT, CPMT, CPGW	38
DP	DPGT, DPMT, DPGW	38
SP	SPGT, SPMT, SPGW	39
TP	TPGT, TPMT	39
VB	VBGT, VBMT, VBGW	40

CC

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm)				Coating																					
							CVD														PVD				Uncoated			
			IC	S	d	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	CCGT-21.50.5-HF	CCGT060202-HF	6.35	2.38	2.8	0.2																						
	CCGT-21.51-HF	CCGT060204-HF	6.35	2.38	2.8	0.4																						
	CCGT-21.52-HF	CCGT060208-HF	6.35	2.38	2.8	0.8																						
	CCGT-32.50.5-HF	CCGT09T302-HF	9.525	3.97	4.4	0.2																						
	CCGT-32.51-HF	CCGT09T304-HF	9.525	3.97	4.4	0.4																						
	CCGT-32.52-HF	CCGT09T308-HF	9.525	3.97	4.4	0.8																						
	CCGT-431-HF	CCGT120404-HF	12.7	4.76	5.56	0.4																						
	CCGT-432-HF	CCGT120408-HF	12.7	4.76	5.56	0.8																						
	CCMT-21.51-HM	CCMT060204-HM	6.35	2.38	2.8	0.4																						
	CCMT-21.52-HM	CCMT060208-HM	6.35	2.38	2.8	0.8																						
	CCMT-32.51-HM	CCMT09T304-HM	9.525	3.97	4.4	0.4																						
	CCMT-32.52-HM	CCMT09T308-HM	9.525	3.97	4.4	0.8																						
	CCMT-431-HM	CCMT120404-HM	12.7	4.76	5.56	0.4																						
	CCMT-432-HM	CCMT120408-HM	12.7	4.76	5.56	0.8																						
	CCMT-433-HM	CCMT120412-HM	12.7	4.76	5.56	1.2																						
	CCGX-21.50.5-AL	CCGX060202-AL	6.35	2.38	2.8	0.2																						
	CCGX-21.51-AL	CCGX060204-AL	6.35	2.38	2.8	0.4																						
	CCGX-21.52-AL	CCGX060208-AL	6.35	2.38	2.8	0.8																						
	CCGX-32.50.5-AL	CCGX09T302-AL	9.525	3.97	4.4	0.2																						
	CCGX-32.51-AL	CCGX09T304-AL	9.525	3.97	4.4	0.4																						
	CCGX-32.52-AL	CCGX09T308-AL	9.525	3.97	4.4	0.8																						
	CCGX-430.5-AL	CCGX120402-AL	12.7	4.76	5.56	0.2																						
	CCGX-431-AL	CCGX120404-AL	12.7	4.76	5.56	0.4																						
	CCGX432-AL	CCGX120408-AL	12.7	4.76	5.56	0.8																						
	CCGX-433-AL	CCGX120412-AL	12.7	4.76	5.56	1.2																						
	CCGT-21.51-AL	CCGT060204-AL	6.35	2.38	2.8	0.4																						
	CCGT-21.52-AL	CCGT060208-AL	6.35	2.38	2.8	0.8																						
	CCGT-32.52-AL	CCGT09T308-AL	9.525	3.97	4.4	0.8																						
	CCGT-430.5-AL	CCGT120402-AL	12.7	4.76	5.56	0.2																						
	CCGT-432-AL	CCGT120408-AL	12.7	4.76	5.56	0.8																						
	CCGT-433-AL	CCGT120412-AL	12.7	4.76	5.56	1.2																						



Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

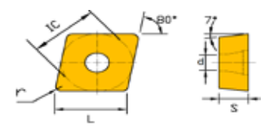
+ Recommended / ~ General Purpose

Positive Angle Inserts

CC

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm)				Coating																					
							CVD														PVD				Uncoated			
			IC	S	d	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	CCMW-21.51	CCMW060204	6.35	2.38	2.8	0.4																						
	CCMW-32.51	CCMW09T304	9.525	3.97	4.4	0.4																						
	CCMW-32.52	CCMW09T308	9.525	3.97	4.4	0.8																						
	CCMW-431	CCMW120404	12.7	4.76	5.56	0.4																						
	CCMW-432	CCMW120408	12.7	4.76	5.56	0.8																						
	CCMT-32.52-HR	CCMT09T308-HR	9.525	3.97	4.4	0.8																						
	CCMT-32.53-HR	CCMT09T312-HR	9.525	3.97	4.4	1.2																						
	CCMT-432-HR	CCMT120408-HR	12.7	4.76	5.56	0.8																						
	CCMT-433-HR	CCMT120412-HR	12.7	4.76	5.56	1.2																						



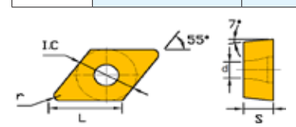
Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

+ Recommended / ~ General Purpose

DC

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm)				Coating																					
							CVD														PVD				Uncoated			
			IC	S	d	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	DCGT-21.50.5-GF	DCGT070202-GF	6.35	2.38	2.8	0.2																						
	DCGT-21.51-GF	DCGT070204-GF	6.35	2.38	2.8	0.4																						
	DCGT-21.52-GF	DCGT070208-GF	6.35	2.38	2.8	0.8																						
	CCGT-32.50.5-GF	CCGT09T302-GF	9.525	3.97	4.4	0.2																						
	CCGT-32.51-GF	CCGT09T304-GF	9.525	3.97	4.4	0.4																						
	CCGT-32.52-GF	CCGT09T308-GF	9.525	3.97	4.4	0.8																						
	DCMT-21.51-GM	DCMT070204-GM	6.35	2.38	2.8	0.4																						
	DCMT-21.52-GM	DCMT070208-GM	6.35	2.38	2.8	0.8																						
	DCMT-32.51-GM	DCMT11T304-GM	9.525	3.97	4.4	0.4																						
	DCMT-32.52-GM	DCMT11T308-GM	9.525	3.97	4.4	0.8																						
	DCMT-32.53-GM	DCMT11T312-GM	9.525	3.97	4.4	1.2																						



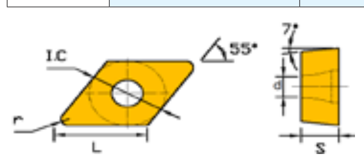
Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

+ Recommended / ~ General Purpose

DC

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																						
			IC	S	d	r	CVD															PVD				Uncoated			
							XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	DCGX-21.50.5-AL	DCGX070202-AL	6.35	2.38	2.8	0.2																							
	DCGX-21.51-AL	DCGX070204-AL	6.35	2.38	2.8	0.4																							
	DCGX-32.50.5-AL	DCGX11T302-AL	9.525	3.97	4.4	0.2																							
	DCGX-32.51-AL	DCGX11T304-AL	9.525	3.97	4.4	0.4																							
	DCGX-32.52-AL	DCGX11T308-AL	9.525	3.97	4.4	0.8																							
	DCGT-21.51-AL	DCGT070204-AL	6.35	2.38	2.8	0.4																							
	DCGT-21.52-AL	DCGT070208-AL	6.35	2.38	2.8	0.8																							
	DCGT-32.51-AL	DCGT11T304-AL	9.525	3.97	4.4	0.4																							
	DCGT-32.52-AL	DCGT11T308-AL	9.525	3.97	4.4	0.8																							
	DCGT-32.53-AL	DCGT11T312-AL	9.525	3.97	4.4	1.2																							
	DCGW-21.51	DCGW070204	6.35	2.38	2.8	0.4																							
	DCGW-32.51	DCGW11T304	9.525	3.97	4.4	0.4																							
	DCGW-32.52	DCGW11T308	9.525	3.97	4.4	0.8																							
	DCMT-21.52-HR	DCMT070208-HR	6.35	2.38	2.8	0.8																							
	DCMT-21.53-HR	DCMT070212-HR	6.35	2.38	2.8	1.2																							
	DCMT-32.51-HR	DCMT11T304-HR	9.525	3.97	4.4	0.4																							
	DCMT-32.52-HR	DCMT11T308-HR	9.525	3.97	4.4	0.8																							
	DCMT-32.53-HR	DCMT11T312-HR	9.525	3.97	4.4	1.2																							



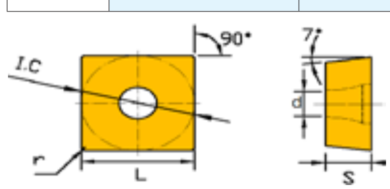
Material																									
	P	Steel																							
	M	Stainless Steel																							
	K	Cast Iron																							
	N	Non-ferrous Metal																							
	S	Titanium Alloy																							

+ Recommended / ~ General Purpose

SC

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																						
			IC	S	d	r	CVD															PVD				Uncoated			
							XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	SCGT-32.50.5-HF	SCGT09T302-HF	9.525	3.97	4.4	0.2																							
	SCGT-32.51-HF	SCGT09T304-HF	9.525	3.97	4.4	0.4																							
	SCGT-32.52-HF	SCGT09T308-HF	9.525	3.97	4.4	0.8																							



Material																									
	P	Steel																							
	M	Stainless Steel																							
	K	Cast Iron																							
	N	Non-ferrous Metal																							
	S	Titanium Alloy																							

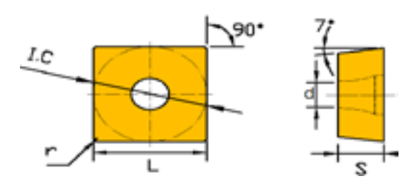
+ Recommended / ~ General Purpose

Positive Angle Inserts

SC

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																						
			IC	S	d	r	CVD															PVD				Uncoated			
							XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	SCMT-32.51-HM	SCMT09T304-HM	9.525	3.97	4.4	0.4																							
	SCMT-32.52-HM	SCMT09T308-HM	9.525	3.97	4.4	0.8																							
	SCMT-431-HM	SCMT120404-HM	12.7	4.76	5.56	0.4																							
	SCMT-432-HM	SCMT120408-HM	12.7	4.76	5.56	0.8																							
	SCMT-433-HM	SCMT120412-HM	12.7	4.76	5.56	1.2																							
	SCGX-32.50.5-AL	SCGX09T302-AL	9.525	3.97	4.4	0.2																							
	SCGX-32.51-AL	SCGX09T304-AL	9.525	3.97	4.4	0.4																							
	SCGX-32.52-AL	SCGX09T308-AL	9.525	3.97	4.4	0.8																							
	SCGX-431-AL	SCGX120404-AL	12.7	4.76	5.56	0.4																							
	SCGX-432-AL	SCGX120408-AL	12.7	4.76	5.56	0.8																							
	SCGT-32.51-AL	SCGT09T304-AL	9.525	3.97	4.4	0.4																							
	SCGT-32.52-AL	SCGT09T308-AL	9.525	3.97	4.4	0.8																							
	SCGT-431-AL	SCGT120404-AL	12.7	4.76	5.56	0.4																							
	SCGT-432-AL	SCGT120408-AL	12.7	4.76	5.56	0.8																							
	SCGT-433-AL	SCGT120412-AL	12.7	4.76	5.56	1.2																							
	SCGW-32.50.5	SCGW09T302	9.525	3.97	4.4	0.2																							
	SCGW-32.51	SCGW09T304	9.525	3.97	4.4	0.4																							
	SCGW-32.52	SCGW09T308	9.525	3.97	4.4	0.8																							
	SCGW-431	SCGW120404	12.7	4.76	5.56	0.4																							
	SCGW-432	SCGW120408	12.7	4.76	5.56	0.8																							
	SCGW-433	SCGW120412	12.7	4.76	5.56	1.2																							
	SCMT-32.52-HR	SCMT09T308-HR	9.525	3.97	4.4	0.8																							
	SCMT-32.53-HR	SCMT09T312-HR	9.525	3.97	4.4	1.2																							
	SCMT-432-HR	SCMT120408-HR	12.7	4.76	5.56	0.8																							
	SCMT-433-HR	SCMT120412-HR	12.7	4.76	5.56	1.2																							



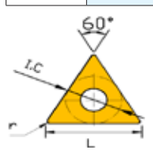
Material																									
	P	Steel																							
	M	Stainless Steel																							
	K	Cast Iron																							
	N	Non-ferrous Metal																							
	S	Titanium Alloy																							

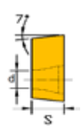
+ Recommended / ~ General Purpose

TC

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm)				Coating																							
							CVD														PVD				Uncoated			
			IC	S	d	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	TCGT-1.21.21-GF	TCGT06T104-GF	3.97	1.98	2.2	0.4																								
	TCGT-1.21.22-GF	TCGT06T108-GF	3.97	1.98	2.2	0.8																								
	TCGT-1.81.50.5-GF	TCGT090202-GF	5.56	2.38	2.5	0.2																								
	TCGT-1.81.51-GF	TCGT090204-GF	5.56	2.38	2.5	0.4																								
	TCGT-1.81.52-GF	TCGT090208-GF	5.56	2.38	2.5	0.8																								
	TCGT-21.50.5-GF	TCGT110202-GF	6.35	2.38	2.8	0.2																								
	TCGT-21.51-GF	TCGT110204-GF	6.35	2.38	2.8	0.4																								
	TCGT-21.52-GF	TCGT110208-GF	6.35	2.38	2.8	0.8																								
	TCGT-32.50.5-GF	TCGT16T302-GF	9.525	3.97	4.4	0.2																								
	TCGT-32.51-GF	TCGT16T304-GF	9.525	3.97	4.4	0.4																								
	TCGT-32.52-GF	TCGT16T308-GF	9.525	3.97	4.4	0.8																								
	TCMT-1.81.51-GM	TCMT090204-GM	5.56	2.38	2.5	0.4																								
	TCMT-1.81.52-GM	TCMT090208-GM	5.56	2.38	2.5	0.8																								
	TCMT-21.51-GM	TCMT110204-GM	6.35	2.38	2.8	0.4																								
	TCMT-21.52-GM	TCMT110208-GM	6.35	2.38	2.8	0.8																								
	TCMT-32.51-GM	TCMT16T304-GM	9.525	3.97	4.4	0.4																								
	TCMT-32.52-GM	TCMT16T308-GM	9.525	3.97	4.4	0.8																								
	TCMT-32.53-GM	TCMT16T312-GM	9.525	3.97	4.4	1.2																								
	TCGX-1.81.50.5-AL	TCGX090202-AL	5.56	2.38	2.5	0.2																								
	TCGX-1.81.51-AL	TCGX090204-AL	5.56	2.38	2.5	0.4																								
	TCGX-21.50.5-AL	TCGX110202-AL	6.35	2.38	2.8	0.2																								
	TCGX-21.51-AL	TCGX110204-AL	6.35	2.38	2.8	0.4																								
	TCGX-21.52-AL	TCGX110208-AL	6.35	2.38	2.8	0.8																								
	TCGX-32.50.5-AL	TCGX16T302-AL	9.525	3.97	4.4	0.2																								
	TCGX-32.51-AL	TCGX16T304-AL	9.525	3.97	4.4	0.4																								
	TCGX-32.52-AL	TCGX16T308-AL	9.525	3.97	4.4	0.8																								
	TCGW-21.50.5	TCGW110204	6.35	2.38	2.8	0.4																								
	TCGW-32.51	TCGW16T304	9.525	3.97	4.4	0.4																								
	TCGW-32.52	TCGW16T308	9.525	3.97	4.4	0.8																								
	TCGW-32.53	TCGW16T312	9.525	3.97	4.4	1.2																								
	TCGW-432	TCGW220408																												





Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

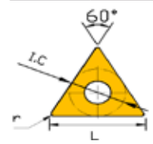
+ Recommended / ~ General Purpose

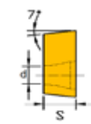
Positive Angle Inserts

TC

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm)				Coating																							
							CVD														PVD				Uncoated			
			IC	S	d	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	TCMT-1.81.52-HR	TCMT090208-HR	5.56	2.38	2.5	0.8																								
	TCMT-21.52-HR	TCMT110208-HR	6.35	2.38	2.8	0.8																								
	TCMT-21.50.5-HR	TCMT110212-HR	6.35	2.38	2.8	1.2																								
	TCMT-32.52-HR	TCMT16T308-HR	9.525	3.97	4.4	O.8																								
	TCMT-32.53-HR	TCMT16T312-HR	9.525	3.97	4.4	1.2																								





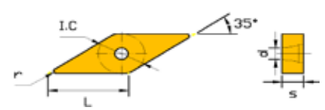
Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

+ Recommended / ~ General Purpose

VC

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm)				Coating																							
							CVD														PVD				Uncoated			
			IC	S	d	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	VCGT-221-GF	VCGT110304-GF	6.35	3.18	2.8	0.4																								
	VCMT-221-GM	VCMT110304-GM	6.35	3.18	2.8	0.4																								
	VCGX-21.50.5-AL	VCGX110202-AL	6.35	2.38	2.8	0.2																								
	VCGX-21.51-AL	VCGX110204-AL	6.35	2.38	2.8	0.4																								
	VCGX-220.2-AL	VCGX110301-AL	6.35	3.18	2.8	0.1																								
	VCGX-220.5-AL	VCGX110302-AL	6.35	3.18	2.8	0.2																								
	VCGX-221-AL	VCGX110304-AL	6.35	3.18	2.8	0.4																								
	VCGX-222-AL	VCGX110308-AL	6.35	3.18	2.8	0.8																								
	VCGX-330.5-AL	VCGX160402-AL	9.525	4.76	4.4	0.2																								
	VCGX-331-AL	VCGX160404-AL	9.525	4.76	4.4	0.4																								
	VCGX-332-AL	VCGX160408-AL	9.525	4.76	4.4	0.8																								
	VCGX-333-AL	VCGX160412-AL	9.525	4.76	4.4	1.2																								
	VCGX-43.57.5-AL	VCGX220530-AL	12.7	5.56	5.5	3.0																								
	VCGW-321	VCGW110304	6.35	3.18	2.8	0.4																								



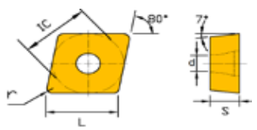
Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

+ Recommended / ~ General Purpose

CP

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm) IC	S	d	r	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	CPGT-21.51-GF	CPGT060204-GF	6.35	2.38	2.8	0.2																							
	CPGT-32.51-GF	CPGT09T304-GF	9.525	3.97	4.4	0.4																							
	CPMT-21.51-GM	CPMT060204-GM	6.35	2.38	2.8	0.4																							
	CPMT-32.51-GM	CPMT09T304-GM	9.525	3.97	4.4	0.4																							
	CPGW-21.51	CPGW060204	6.35	2.38	2.8	0.4																							



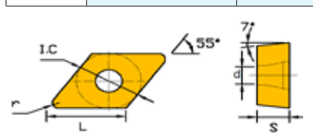
Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

+ Recommended / ~ General Purpose

DP

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm) IC	S	d	r	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	DPGT-21.51-GF	DPGT070204-GF	6.35	2.38	2.8	0.4																							
	DPGT-21.52-GF	DPGT070208-GF	6.35	2.38	2.8	0.8																							
	CPGT-32.51-GF	CPGT11T304-GF	9.525	3.97	4.4	0.4																							
	CPGT-32.52-GF	CPGT11T308-GF	9.525	3.97	4.4	0.8																							
	DPMT-21.51-GM	DPMT070204-GM	6.35	2.38	2.8	0.4																							
	DPMT-21.52-GM	DPMT070208-GM	6.35	2.38	2.8	0.8																							
	DPMT-32.51-GM	DPMT11T304-GM	9.525	3.97	4.4	0.4																							
	DPMT-32.52-GM	DPMT11T308-GM	9.525	3.97	4.4	0.8																							
	DPGW-32.51	DPGW11T304	9.525	3.97	4.4	0.4																							
	DPGW-32.52	DPGW11T308	9.525	3.97	4.4	0.8																							



Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

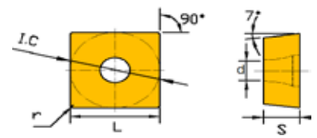
+ Recommended / ~ General Purpose

Positive Angle Inserts

SP

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm) IC	S	d	r	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	SPGT-32.50.5-GF	SPGT09T302-GF	9.525	3.97	4.4	0.2																							
	SPGT-32.51-GF	SPGT09T304-GF	9.525	3.97	4.4	0.4																							
	SPGT-32.52-GF	SPGT09T308-GF	9.525	3.97	4.4	0.8																							
	SPMT-32.51-GM	SPMT09T304-GM	9.525	3.97	4.4	0.4																							
	SPMT-32.52-GM	SPMT09T308-GM	9.525	3.97	4.4	0.8																							
	SPMT-431-GM	SPMT120404-GM	12.7	4.76	5.56	0.4																							
	SPMT-432-GM	SPMT120408-GM	12.7	4.76	5.56	0.8																							
	SPMT-433-GM	SPMT120412-GM	12.7	4.76	5.56	1.2																							
	SCGW-32.51	SCGW09T304	9.525	3.97	4.4	0.4																							
	SCGW-32.52	SCGW09T308	9.525	3.97	4.4	0.8																							
	SCGW-432	SCGW120408	12.7	4.76	5.56	0.8																							



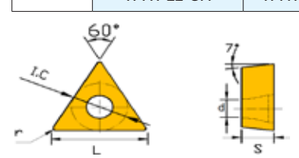
Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

+ Recommended / ~ General Purpose

TP

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	DImensions (mm) IC	S	d	r	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	TPGT-1.81.51-GF	TPGT090204-GF	5.56	2.38	2.5	0.4																							
	TPGT-1.81.52-GF	TPGT090208-GF	5.56	2.38	2.5	0.8																							
	TPGT-22-GF	TPGT110302-GF	6.35	2.38	2.8	0.2																							
	TPGT-22-GF	TPGT110304-GF	6.35	2.38	2.8	0.4																							
	TPGT-22-GF	TPGT110308-GF	6.35	2.38	2.8	0.8																							
	TPMT-1.81.52-GM	TPMT090208-GM	5.56	2.38	2.5	0.8																							
	TPMT-22-GM	TPNT110302-GM	6.35	2.38	2.8	0.2																							
	TPMT-22-GM	TPNT110304-GM	6.35	2.38	2.8	0.4																							
	TPMT-22-GM	TPMT110308-GM	6.35	2.38	2.8	0.8																							



Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

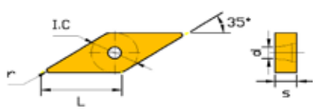
+ Recommended / ~ General Purpose

Positive Angle Inserts

VB

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																					
							CVD													PVD				Uncoated			
			IC	S	d	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	VBGT-21.50.5-GF	VBGT110202-GF	6.35	2.38	2.8	0.2																						
	VBGT-21.51-GF	VBGT110204-GF	6.35	2.38	2.8	0.4																						
	VBGT-21.52-GF	VBGT110208-GF	6.35	2.38	2.8	0.8																						
	VCMT-331-GM	VCMT160404-GM	9.525	4.76	4.4	0.4																						
	VCMT-332-GM	VCMT160408-GM	9.525	4.76	4.4	0.8																						
	VCMT-333-GM	VCMT160412-GM	9.525	4.76	4.4	1.2																						
	VBGW-331	VBGW160404	9.525	4.76	4.4	0.4																						
	VBGW-332	VBGW160408	9.525	4.76	4.4	0.8																						



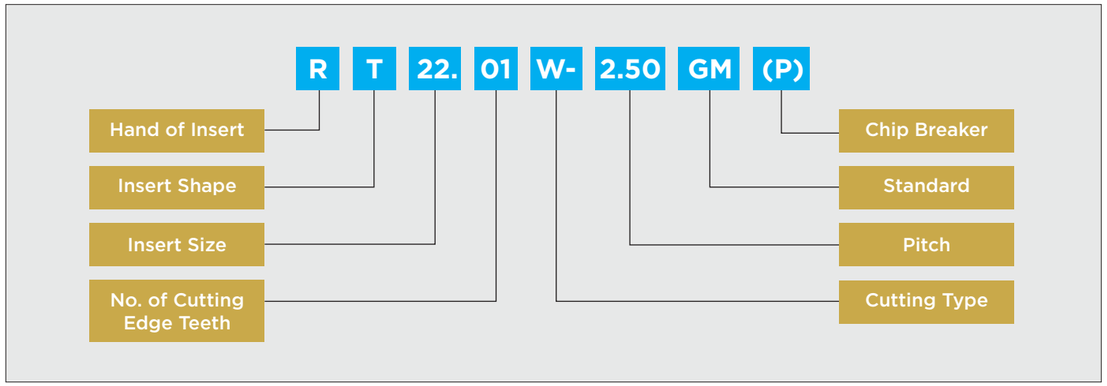
Material																											
P	Steel																										
M	Stainless Steel																										
K	Cast Iron																										
N	Non-ferrous Metal																										
S	Titanium Alloy																										

+ Recommended / ~ General Purpose

Threading Inserts

CC	CCGT, CCMT, CCGX, CCMW	32 - 33
DC	DCGT, DCMT, DCGX, DCGW	33 - 34
SC	SCGT, SCMT, SCGX, SCGW	34 - 35
TC	TCGT, TCMT, TCGX, TCGW	36 - 37
VC	VCGT, VCMT, VCGX, VCGW	37
CP	CPGT, CPMT, CPGW	38
DP	DPGT, DPMT, DPGW	38
SP	SPGT, SPMT, SPGW	39
TP	TPGT, TPMT	39
VB	VBGT, VBMT, VBGW	40

Turning Inserts Code System



Hand of Tools	
R	Right Hand
L	Left Hand

Insert Shape	
T	Others Z

Insert Size	
22	diameter = 12.7
16	diameter = 9.525
11	diameter = 6.35

Number of Cutting Edge Teeth	
01	Number of Teeth per Cutting Edge

Cutting Type	
W	External
N	Internal

Pitch		
Full Profile		
mm	TPI	
0.35 - 9.0	72 - 2	
Partial Profile		
	mm	TPI
A	0.5 - 1.5	48 - 16
AG	0.5 - 3.0	48 - 8
G	1.75 - 3.0	14 - 8
N	3.5 - 5.0	7 - 5
Q	5.5 - 6.0	41 / 2 - 4
Standard		
GM		
60		
55		
W		
UN		
BSPT		
NPT		

ISO METRIC THREAD INSERT WITH A SHOULDER

ISO 965-1980
DIN 13
GB/T 197-2003
Class of Tolerances: 6g/6H

● Stocked Standard / ○ Non-stocked

Type			Dimensions (mm)				Grade JT 1020	
	Right Hand Type	Left Hand Type	Pitch	S	I.C	d	R	L
External Threading	RT16.01W-1.00GM	LT16.01W-1.00GM	1.00	3.97	9.525	4.4	●	●
	RT16.01W-1.25GM	LT16.01W-1.25GM	1.25	3.97	9.525	4.4	●	●
	RT16.01W-1.50GM	LT16.01W-1.50GM	1.50	3.97	9.525	4.4	●	●
	RT16.01W-1.75GM	LT16.01W-1.75GM	1.75	3.97	9.525	4.4	●	●
	RT16.01W-2.00GM	LT16.01W-2.00GM	2.00	3.97	9.525	4.4	●	●
	RT16.01W-2.50GM	LT16.01W-2.50GM	2.50	3.97	9.525	4.4	●	●
	RT16.01W-3.00GM	LT16.01W-3.00GM	3.00	3.97	9.525	4.4	●	●
	RT22.01W-3.50GM	LT22.01W-3.50GM	3.50	5.56	12.7	5.5	●	●
	RT22.01W-4.00GM	LT22.01W-4.00GM	4.00	5.56	12.7	5.5	●	●
	RT22.01W-4.50GM	LT22.01W-4.50GM	4.50	5.56	12.7	5.5	●	●
	RT22.01W-5.00GM	LT22.01W-5.00GM	5.00	5.56	12.7	5.5	●	●
	RT22.01W-5.50GM	LT22.01W-5.50GM	5.50	5.56	12.7	5.5	●	●
	RT22.01W-6.00GM	LT22.01W-6.00GM	6.00	5.56	12.7	5.5	●	●

ISO METRIC THREAD INSERT WITH A SHOULDER

ISO 965-1980
DIN 13
GB/T 197-2003
Class of Tolerances: 6g/6H

● Stocked Standard / ○ Non-stocked

	Type		Dimensions (mm)				Grade JT 1020	
	Right Hand Type	Left Hand Type	Pitch	S	I.C	d	R	L
Internal Threading	RT11.01N-1.00GM	LT11.01N-1.00GM	1.00	3.18	6.35	2.8	●	●
	RT11.01N-1.25GM	LT11.01N-1.25GM	1.25	3.18	6.35	2.8	●	●
	RT11.01N-1.50GM	LT11.01N-1.50GM	1.50	3.18	6.35	2.8	●	●
	RT11.01N-1.75GM	LT11.01N-1.75GM	1.75	3.18	6.35	2.8	●	●
	RT11.01N-2.00GM	LT11.01N-2.00GM	2.00	3.18	6.35	2.8	●	●
	RT16.01N-1.00GM	LT16.01N-1.00GM	1.00	3.97	9.525	4.4	●	●
	RT16.01N-1.25GM	LT16.01N-1.25GM	1.25	3.97	9.525	4.4	●	●
	RT16.01N-1.50GM	LT16.01N-1.50GM	1.50	3.97	9.525	4.4	●	●
	RT16.01N-1.75GM	LT16.01N-1.75GM	1.75	3.97	9.525	4.4	●	●
	RT16.01N-2.00GM	LT16.01N-2.00GM	2.00	3.97	9.525	4.4	●	●
	RT16.01N-2.50GM	LT16.01N-2.50GM	2.50	3.97	9.525	4.4	●	●
	RT16.01N-3.00GM	LT16.01N-3.00GM	3.00	3.97	9.525	4.4	●	●
	RT22.01N-3.50GM	LT22.01N-3.50GM	3.50	5.56	12.7	5.5	●	●
	RT22.01N-4.00GM	LT22.01N-4.00GM	4.00	5.56	12.7	5.5	●	●
	RT22.01N-4.50GM	LT22.01N-4.50GM	4.50	5.56	12.7	5.5	●	●
	RT22.01N-5.00GM	LT22.01N-5.00GM	5.00	5.56	12.7	5.5	●	●
	RT22.01N-5.50GM	LT22.01N-5.50GM	5.50	5.56	12.7	5.5	●	●
	RT22.01N-6.00GM	LT22.01N-6.00GM	6.00	5.56	12.7	5.5	●	●

Threading Inserts

GENERAL PITCH THREADING INSERT WITHOUT A SHOULDER

● Stocked Standard / ○ Non-stocked

		Type		Dimensions (mm)					Grade JT 1020	
		Right Hand Type	Left Hand Type	Pitch	S	I.C	d	a°	R	L
External Threading	60°	RT16.01W-A60	LT16.01W-A60	0.5-1.5 (48-16)	3.97	9.525	4.4	60°	●	●
		RT16.01W-G60	LT16.01W-G60	1.75-3.0 (14-8)	3.97	9.525	4.4	60°	●	●
		RT16.01W-G60P*	LT16.01W-G60P*	1.75-3.0 (14-8)	3.97	9.525	4.4	60°	●	●
		RT16.01W-AG60	LT16.01W-AG60	0.5-3.0 (48-8)	3.97	9.525	4.4	60°	●	●
		RT22.01W-N60	LT22.01W-N60	3.5-5.0 (7-5)	5.56	12.7	5.5	60°	●	●
	50°	RT16.01W-A55	LT16.01W-A55	0.5-1.5 (48-16)	3.97	9.525	4.4	50°	●	●
		RT16.01W-G55	LT16.01W-G55	1.75-3.0 (14-8)	3.97	9.525	4.4	50°	●	●
		RT16.01W-G55P*	LT16.01W-G55P*	1.75-3.0 (14-8)	3.97	9.525	4.4	50°	●	●
		RT16.01W-AG55	LT16.01W-AG55	0.5-3.0 (48-8)	3.97	9.525	4.4	50°	●	●
		RT22.01W-N55	LT22.01W-N55	3.5-5.0 (7-5)	5.56	12.7	5.5	50°	●	●

● Stocked Standard / ○ Non-stocked

		Type		Dimensions (mm)					Grade JT 1020	
		Right Hand Type	Left Hand Type	Pitch	S	I.C	d	a°	R	L
Internal Threading	60°	RT16.01N-A60	LT16.01N-A60	0.5-1.5 (48-16)	3.97	9.525	4.4	60°	●	●
		RT16.01N-G60	LT16.01N-G60	1.75-3.0 (14-8)	3.97	9.525	4.4	60°	●	●
		RT16.01N-G60P*	LT16.01N-G60P*	1.75-3.0 (14-8)	3.97	9.525	4.4	60°	●	●
		RT16.01N-AG60	LT16.01N-AG60	0.5-3.0 (48-8)	3.97	9.525	4.4	60°	●	●
		RT22.01N-N60	LT22.01N-N60	3.5-5.0 (7-5)	5.56	12.7	5.5	60°	●	●
	50°	RT16.01N-A55	LT16.01N-A55	0.5-1.5 (48-16)	3.97	9.525	4.4	50°	●	●
		RT16.01N-G55	LT16.01N-G55	1.75-3.0 (14-8)	3.97	9.525	4.4	50°	●	●
		RT16.01N-G55P*	LT16.01N-G55P*	1.75-3.0 (14-8)	3.97	9.525	4.4	50°	●	●
		RT16.01N-AG55	LT16.01N-AG55	0.5-3.0 (48-8)	3.97	9.525	4.4	50°	●	●
		RT22.01N-N55	LT22.01N-N55	3.5-5.0 (7-5)	5.56	12.7	5.5	50°	●	●

WHITWORTH THREAD INSERT WITH A SHOULDER

ISO 228/1:1982
DIN 259
B.S. 84:1956
Class of Tolerances: Medium Class A

● Stocked Standard / ○ Non-stocked

Type			Dimensions (mm)				Grade JT 1020	
	Right Hand Type	Left Hand Type	Pitch	S	I.C	d	R	L
External Threading	RT16.01W-8W	LT16.01W-8W	8	3.97	9.525	4.4	●	●
	RT16.01W-9W	LT16.01W-9W	9	3.97	9.525	4.4	●	●
	RT16.01W-10W	LT16.01W-10W	10	3.97	9.525	4.4	●	●
	RT16.01W-11W	LT16.01W-11W	11	3.97	9.525	4.4	●	●
	RT16.01W-12W	LT16.01W-12W	12	3.97	9.525	4.4	●	●
	RT16.01W-14W	LT16.01W-14W	14	3.97	9.525	4.4	●	●
	RT16.01W-16W	LT16.01W-16W	16	3.97	9.525	4.4	●	●

● Stocked Standard / ○ Non-stocked

Type			Dimensions (mm)				Grade JT 1020	
	Right Hand Type	Left Hand Type	Pitch	S	I.C	d	R	L
Internal Threading	RT16.01W-8W	LT16.01W-8W	8	3.97	9.525	4.4	●	●
	RT16.01W-9W	LT16.01W-9W	9	3.97	9.525	4.4	●	●
	RT16.01W-10W	LT16.01W-10W	10	3.97	9.525	4.4	●	●
	RT16.01W-11W	LT16.01W-11W	11	3.97	9.525	4.4	●	●
	RT16.01W-12W	LT16.01W-12W	12	3.97	9.525	4.4	●	●
	RT16.01W-14W	LT16.01W-14W	14	3.97	9.525	4.4	●	●
	RT16.01W-16W	LT16.01W-16W	16	3.97	9.525	4.4	●	●

UNIFIED THREAD INSERT WITH A SHOULDER

ASME B1.1-1989
Class of Tolerances: 2A/2B

● Stocked Standard / ○ Non-stocked

Type			Dimensions (mm)				Grade JT 1020	
	Right Hand Type	Left Hand Type	Pitch	S	I.C	d	R	L
External Threading	RT16.01W-8UN	LT16.01W-8UN	8	3.97	9.525	4.4	●	●
	RT16.01W-10UN	LT16.01W-10UN	10	3.97	9.525	4.4	●	●
	RT16.01W-12UN	LT16.01W-12UN	12	3.97	9.525	4.4	●	●
	RT16.01W-14UN	LT16.01W-14UN	14	3.97	9.525	4.4	●	●
	RT16.01W-16UN	LT16.01W-16UN	16	3.97	9.525	4.4	●	●
	RT16.01W-18UN	LT16.01W-18UN	18	3.97	9.525	4.4	●	●
	RT16.01W-20UN	LT16.01W-20UN	20	3.97	9.525	4.4	●	●

● Stocked Standard / ○ Non-stocked

Type			Dimensions (mm)				Grade JT 1020	
	Right Hand Type	Left Hand Type	Pitch	S	I.C	d	R	L
Internal Threading	RT16.01N-8UN	LT16.01N-8UN	8	3.97	9.525	4.4	●	●
	RT16.01N-10UN	LT16.01N-10UN	10	3.97	9.525	4.4	●	●
	RT16.01N-12UN	LT16.01N-12UN	12	3.97	9.525	4.4	●	●
	RT16.01N-14UN	LT16.01N-14UN	14	3.97	9.525	4.4	●	●
	RT16.01N-16UN	LT16.01N-16UN	16	3.97	9.525	4.4	●	●
	RT16.01N-18UN	LT16.01N-18UN	18	3.97	9.525	4.4	●	●
	RT16.01N-20UN	LT16.01N-20UN	20	3.97	9.525	4.4	●	●

BRITISH STANDARD TAPER PIPE THREAD INSERT WITH A SHOULDER

ISO 7/1:1994
B.S. 21:1985
Standard BSPT

● Stocked Standard / ○ Non-stocked

	Type		Dimensions (mm)				Grade JT 1020	
	Right Hand Type	Left Hand Type	Pitch	S	I.C	d	R	L
External Threading	RT16.01W-11BSPT	LT16.01W-11BSPT	11	3.97	9.525	4.4	●	●
	RT16.01W-14BSPT	LT16.01W-14BSPT	14	3.97	9.525	4.4	●	●
	RT16.01W-19BSPT	LT16.01W-19BSPT	19	3.97	9.525	4.4	●	●
	RT16.01W-28BSPT	LT16.01W-28BSPT	28	3.97	9.525	4.4	●	●

● Stocked Standard / ○ Non-stocked

	Type		Dimensions (mm)				Grade JT 1020	
	Right Hand Type	Left Hand Type	Pitch	S	I.C	d	R	L
Internal Threading	RT16.01N-11BSPT	LT16.01N-11BSPT	11	3.97	9.525	4.4	●	●
	RT16.01N-14BSPT	LT16.01N-14BSPT	14	3.97	9.525	4.4	●	●
	RT16.01N-19BSPT	LT16.01N-19BSPT	19	3.97	9.525	4.4	●	●
	RT16.01N-28BSPT	LT16.01N-28BSPT	28	3.97	9.525	4.4	●	●

NPT AMERICAN STANDARD TAPER PIPE THREAD WITH A SHOULDER

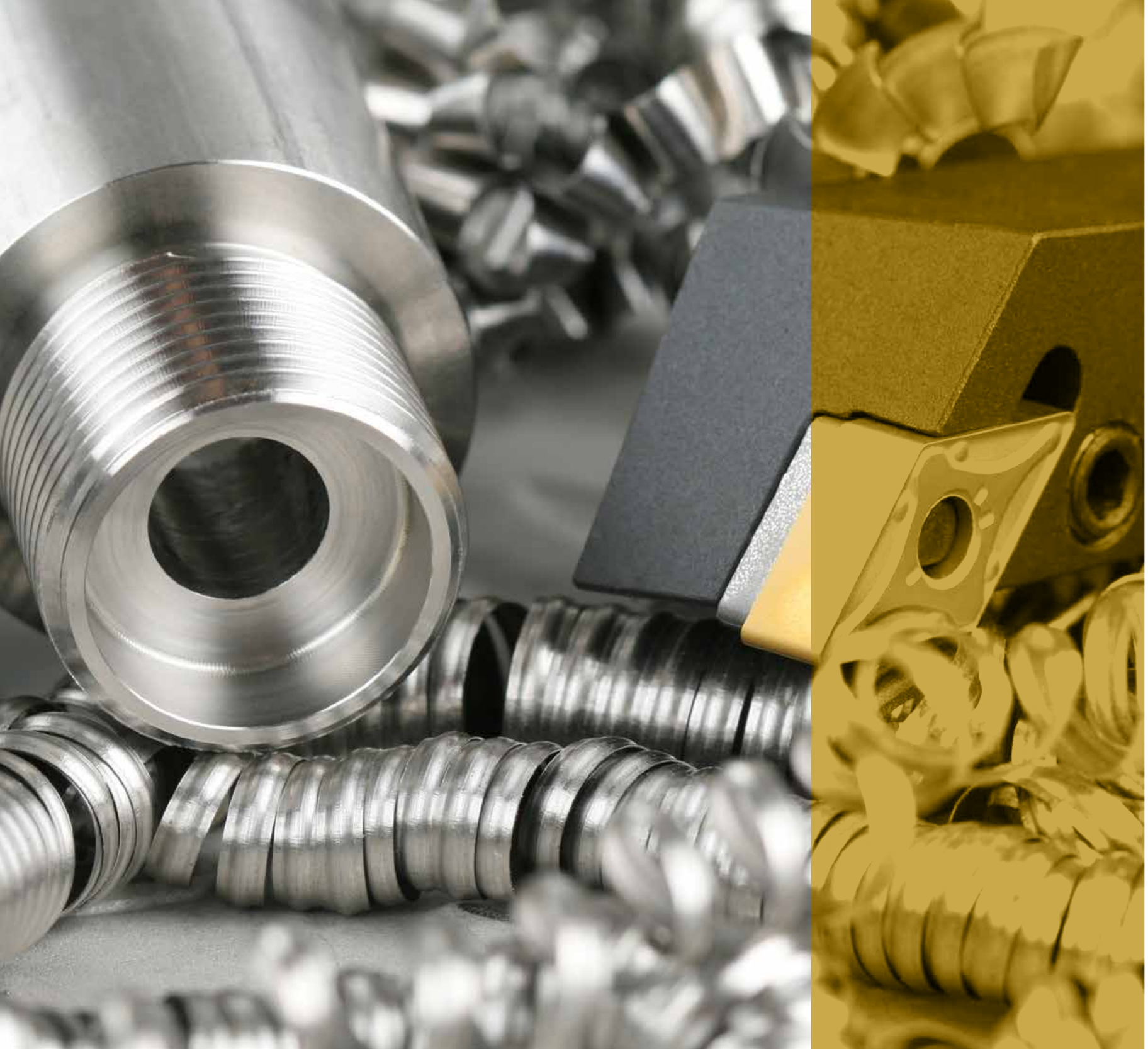
ASME B1.20.1-1983
Standard NPT

● Stocked Standard / ○ Non-stocked

	Type		Dimensions (mm)				Grade JT 1020	
	Right Hand Type	Left Hand Type	Pitch	S	I.C	d	R	L
External Threading	RT16.01W-8NPT	LT16.01W-8NPT	8	3.97	9.525	4.4	●	●
	RT16.01W-11.5NPT	LT16.01W-11.5NPT	11.5	3.97	9.525	4.4	●	●
	RT16.01W-14NPT	LT16.01W-14NPT	14	3.97	9.525	4.4	●	●
	RT16.01W-18NPT	LT16.01W-18NPT	18	3.97	9.525	4.4	●	●
	RT16.01W-27NPT	LT16.01W-27NPT	27	3.97	9.525	4.4	●	●

● Stocked Standard / ○ Non-stocked

	Type		Dimensions (mm)				Grade JT 1020	
	Right Hand Type	Left Hand Type	Pitch	S	I.C	d	R	L
Internal Threading	RT16.01N-8NPT	LT16.01N-8NPT	8	3.97	9.525	4.4	●	●
	RT16.01N-11.5NPT	LT16.01N-11.5NPT	11.5	3.97	9.525	4.4	●	●
	RT16.01N-14NPT	LT16.01N-14NPT	14	3.97	9.525	4.4	●	●
	RT16.01N-18NPT	LT16.01N-18NPT	18	3.97	9.525	4.4	●	●
	RT16.01N-27NPT	LT16.01N-27NPT	27	3.97	9.525	4.4	●	●



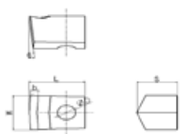
Cutoff & Grooving Inserts

QD	QDMA, QDMB	26 - 27
QC	QCMB	27 - 28
QF	QFMB	28

QD

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm)					Coating																								
							CVD													PVD				Uncoated			
		L	W	S	d	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	QDMA124005N-A	16.7	12.40	12.10	5.5	0.5																									
	QDMA124005R-B	16.7	12.40	12.10	5.5	0.4																									



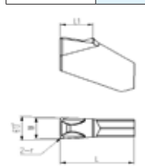
Material																															
	P	Steel																													
	M	Stainless Steel																													
	K	Cast Iron																													
	N	Non-ferrous Metal																													
	S	Titanium Alloy																													

+ Recommended / ~ General Purpose

QD

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm)				Coating																									
						CVD														PVD				Uncoated			
		L	W	r	L1	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	QDMB030002R-GM	11.0	3.12	0.30	4.40																										
	QDMB040003R-GM	11.0	4.12	0.30	4.95																										
	QDMB050004R-GM	11.0	5.1	0.30	5.00																										
	QDMB060005R-GM	11.0	6.40	0.30	5.28																										



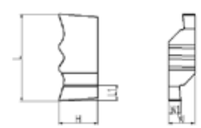
Material																															
	P	Steel																													
	M	Stainless Steel																													
	K	Cast Iron																													
	N	Non-ferrous Metal																													
	S	Titanium Alloy																													

+ Recommended / ~ General Purpose

QD

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm)				Coating																									
						CVD														PVD				Uncoated			
		L	W	r	L1	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	QDMB030000L-M	25.1	6.50	4.50	2.00	9.5																									
	QDMB030000L-M	25.1	6.50	4.50	3.00	9.5																									



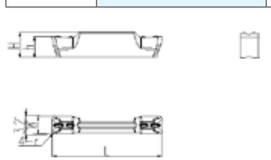
Material																															
	P	Steel																													
	M	Stainless Steel																													
	K	Cast Iron																													
	N	Non-ferrous Metal																													
	S	Titanium Alloy																													

+ Recommended / ~ General Purpose

QC

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm)					Coating																								
							CVD													PVD				Uncoated			
		L	W	h	h	H	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	QCMB020002N-GM	16.0	2.00	0.20	3.50	3.98																									
	QCMB030004N-GM	21.0	3.00	0.40	4.80	5.63																									
	QCMB050004N-GM	21.0	4.00	0.40	4.8	5.88																									
	QCMB050008N-GM	26.05	5.03	0.80	5.85	7.05																									
	QCMB060008N-GM																														



Material																															
	P	Steel																													
	M	Stainless Steel																													
	K	Cast Iron																													
	N	Non-ferrous Metal																													
	S	Titanium Alloy																													

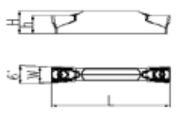
+ Recommended / ~ General Purpose

Cutoff & Grooving Inserts

QC

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm)					Coating																					
							CVD													PVD				Uncoated			
		L	W	r	h	H	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	QCMB040004N-MT	25.5	4.00	0.40	4.71	6																							



Material																												
	P	Steel																										
	M	Stainless Steel																										
	K	Cast Iron																										
	N	Non-ferrous Metal																										
	S	Titanium Alloy																										

+ Recommended / ~ General Purpose

QF

● Standard / ○ Custom

Shape	ISO	Dimensions (mm)					Coating																					
							CVD													PVD				Uncoated			
		L	W	r	h	H	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	QFMB050000N-GM	25.15	5.05	-	5.95	6.75																							

Material																												
	P	Steel																										
	M	Stainless Steel																										
	K	Cast Iron																										
	N	Non-ferrous Metal																										
	S	Titanium Alloy																										

+ Recommended / ~ General Purpose

Milling Inserts

AP	APKT, APMT, APGT	44
KN	KNUX	44
RC	RCKT, RCMX	45
RD	RDKW, RDKT, RDMT, RDMX	45
RP	RPMW	46
SD	SDMT	46
SE	SEET	46
SN	SNKN	47
SP	SPEN, SPKN, SPU, SPG, SPEX	47 - 49
TP	TPG	49
SP	SPMR	50
TP	TPU, TMR, TKN	50 - 51
WP	WPGT	51
XP	XPGT	51

Milling Inserts Code System

Code	Insert Shape
H	
O	
P	
R	
S	
T	
C	
D	
E	
M	
V	
L	
A	
B	
K	
W	
Z	Others

1. Shape Code

Tolerance					Details of Accuracy (M Class)						
Code	Tolerance on m	Tolerance on I.C	Tolerance on S		Inscribed Circle I.C	Triangle	Square	Rhombus 80	Rhombus 55	Rhombus 35	Round
A	±0.005	±0.025	±0.025	Tolerance on m	6.35	±0.08	±0.08	±0.08	±0.11	±0.16	—
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	±0.00	—
F	±0.005	±0.013	±0.025		9.525	±0.08	±0.08	±0.08	±0.11	±0.16	—
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	±0.00	—
C	±0.013	±0.025	±0.025		12.7	±0.13	±0.13	±0.13	±0.15	—	—
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	—	—
H	±0.013	±0.013	±0.025		15.875	±0.15	±0.15	±0.15	±0.18	—	—
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	—	—
E	±0.025	±0.025	±0.025		19.05	±0.15	±0.15	±0.15	±0.18	—	—
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	—	—
G	±0.025	±0.025	±0.013		25.4	—	±0.18	—	—	—	—
	±0.000	±0.000	±0.000		0	—	±0.00	—	—	—	—
J	±0.005	±0.05 - ±0.13	±0.025	Tolerance on I.C	6.35	±0.05	±0.05	±0.05	±0.05	±0.05	—
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	±0.00	—
K	±0.013	±0.05 - ±0.13	±0.025		9.525	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	±0.00	±0.00
L	±0.25	±0.05 - ±0.13	±0.025		12.7	±0.08	±0.08	±0.08	±0.08	—	±0.08
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	—	±0.00
M	±0.005	±0.05 - ±0.13	±0.013		15.875	±0.10	±0.10	±0.10	±0.10	—	±0.10
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	—	±0.00
N	±0.08 - ±0.18	±0.05 - ±0.13	±0.025		19.05	±0.10	±0.10	±0.10	±0.10	—	±0.10
	±0.000	±0.000	±0.000		0	±0.000	±0.00	±0.00	±0.00	—	±0.00
U	±0.13 - ±0.38	±0.08 - ±0.25	±0.013		25.4	—	±0.13	—	—	—	±0.13
	±0.000	±0.000	±0.000		0	—	±0.00	—	—	—	±0.00

3. Tolerance

1. S 2. P 3. K 4. N

2. Back Angle		
Code	Back Angle	
A		3
B		5
C		7
D		15
E		20
F		25
G		30
N		0
P		11
O	Others	

4. Cross Section Type									
Code	Hole	Hole Shape	Chip Breaker	Insert Section	Code	Hole	Hole Shape	Chip Breaker	Insert Section
B	Yes	Cylindrical One Side Chamber (>65˚)	No		N	No	—	No	
H	Yes		One Side		R	No	—	One Side	
C	Yes	Cylindrical Two Sides Chamber (>65˚)	No		F	No	—	Two Sides	
J	Yes		Two Sides		A	Yes	Cylindrical	No	
W	Yes	Cylindrical One Side Chamber (<65˚)	No		M	Yes	Cylindrical	One Side	
T	Yes		One Side		G	Yes	Cylindrical	Two Sides	
Q	Yes	Cylindrical Two Sides Chamber (<65˚)	No		X	—	—	—	Special
U	Yes		Two Sides						

Milling Inserts

Milling Inserts Code System

Insert Shape								Inscribed Circle (d) (mm)
C	D	R	S	T	V	W	K	
				06				3.97
		05						5.0
				09				5.56
		06						6.0
06	07			11	11			6.35
		08						8.0
09	11	09	09	16	16	06	16	9.525
		10						10.0
		12						12.0
12	15	12	12	22	22	08		12.7
16		15	15	27				15.875
	19	16						16.0
19		19	19	33				19.05
		20						20.0
25	25	25						25.0
		25	25					25.4
		31						31.75
		32						32

5. Cutting Edge

R	Right
L	Left
N	Double

9. Hand of Insert

10. Chip Breaker

5. 12 6. 04 7. ED 8. T21 9. R — 10. GM

6. Thickness			
Code	t (mm)	Code	t (mm)
00S	0.79	05S	5.56
T0S	0.99	T5S	5.95
01S	1.59	06S	6.35
T1S	1.98	T6S	6.75
02S	2.38	07S	7.94
T2S	2.58	09S	9.52
03S	3.18	T9S	9.72
T3S	3.97	11S	11.11
04S	4.76	12S	12.70
T4S	4.96		

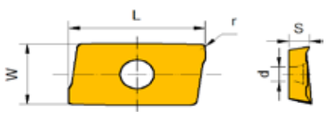
7. Smoothing Blade			
A	45˚	A	3˚
D	60˚	B	5˚
E	75˚	C	7˚
F	85˚	D	15˚
P	90˚	E	20˚
Z	Others	F	25˚
		G	30˚
		N	0˚
		P	11˚
		Z	Others

8. Edge Preparation			
	0-5	0-0.10	
	1-10	1-0.15	
	2-15	2-0.20	
	3-20	3-0.25	
	4-25	4-0.30	
	5-30	5-0.35	
		6-0.40	
		7-0.45	

AP

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm)					Coating																					
							CVD													PVD				Uncoated			
		L	IW	S	d	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	APKT11T304-GM	12.24	6.50	3.60	2.8	0.4																							
	APKT11T308-GM	12.24	6.50	3.60	2.8	0.8																							
	APKT11T312-GM	12.24	6.50	3.60	2.8	1.2																							
	APKT11T316-GM	12.24	6.50	3.60	2.8	1.6																							
	APKT160408-GM	17.88	9.3	5.76	4.4	0.8																							
	APMT1135PDER-M2																												
	APMT1604PDER-M2																												
	APMT1135PDER-H2																												
	APMT1604PDER-H2																												
	APGT160416PDER																												
	APGT160416PDEL																												
	APKT1135PDER-AL																												
	APKT1604PDER-AL																												
	APMT1504T-MT																												



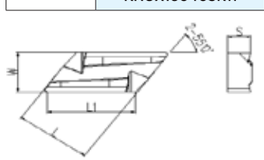
Material																													
	P	Steel																											
	M	Stainless Steel																											
	K	Cast Iron																											
	N	Non-ferrous Metal																											
	S	Titanium Alloy																											

+ Recommended / ~ General Purpose

KN

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm)					Coating																					
							CVD													PVD				Uncoated			
		L1	L	W	S	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	KNUX160405L12	16.0	16.2	9.525	4.76	0.5																							
	KNUX160405R12	16.0	16.2	9.525	4.76	0.5																							
	KNUX160410L12	16.0	16.2	9.525	4.76	1																							
	KNUX160410R12	16.0	16.2	9.525	4.76	1																							
	KNUX160405L11	16.0	16.2	9.525	4.76	0.5																							
	KNUX160405R11	16.0	16.2	9.525	4.76	0.5																							



Material																													
	P	Steel																											
	M	Stainless Steel																											
	K	Cast Iron																											
	N	Non-ferrous Metal																											
	S	Titanium Alloy																											

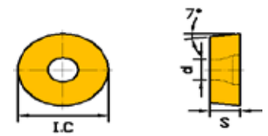
+ Recommended / ~ General Purpose

Milling Inserts

RC

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm)				Coating																						
						CVD														PVD				Uncoated			
		R	IC	S	d	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	RCKT10T3MO	5	10	3.97	4.4																							
	RCKT1204MO	6	12	4.76	4.4																							
	RCMX2507MO	12.5	25	7.94	7.4																							
	RCMX3209MO	16	32	9.52	9.5																							



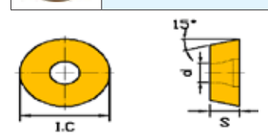
Material																													
	P	Steel																											
	M	Stainless Steel																											
	K	Cast Iron																											
	N	Non-ferrous Metal																											
	S	Titanium Alloy																											

+ Recommended / ~ General Purpose

RD

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm)				Coating																						
						CVD														PVD				Uncoated			
		R	IC	S	d	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	RDKW0803MO	4	8	3.18	3.4																							
	RDKW10T3MO	5	10	3.97	4.4																							
	RDKW1204MO	6	12	4.76	4.4																							
	RDKW1605MO	8	16	5.56	5.5																							
	RDKW2006MO	10	20	6.35	6.5																							
	RDKT1204MOTN	6	12	4.76	4.4																							
	RDKT1604MOTN	8	16	4.76	5.5																							
	RDMT10T3MOTN	5	10	3.97	4.4																							
	RDMT1204MOTN	6	12	4.76	4.4																							
	RDMX1604MOTN	8	16	4.76	5.5																							



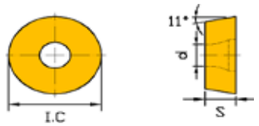
Material																													
	P	Steel																											
	M	Stainless Steel																											
	K	Cast Iron																											
	N	Non-ferrous Metal																											
	S	Titanium Alloy																											

+ Recommended / ~ General Purpose

RP

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm) L	IC	S	d	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	RPMW0802MO	4	8	2.38	3.4																							
	RPMW08T2MO	4	8	2.58	3.4																							
	RPMW10T3MO	5	10	3.97	4.4																							
	RPMW1204MO	6	12	4.76	4.4																							



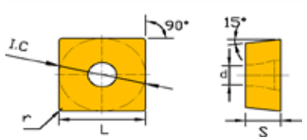
Material																												
	P	Steel																										
	M	Stainless Steel																										
	K	Cast Iron																										
	N	Non-ferrous Metal																										
	S	Titanium Alloy																										

+ Recommended / ~ General Purpose

SD

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm) L	IC	S	be	bs	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	SDMT-322	SDMT090308	9.525	9.525	3.18	4.4	0.8																							
	SDMT-32.53-SM	SDMT09T312-SM	9.525	9.525	3.18	4.4	1.2																							
	SDMT-433-SM	SDMT120412-SM	12.7	12.7	4.76	4.4	1.2																							



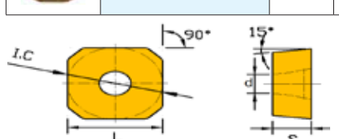
Material																												
	P	Steel																										
	M	Stainless Steel																										
	K	Cast Iron																										
	N	Non-ferrous Metal																										
	S	Titanium Alloy																										

+ Recommended / ~ General Purpose

SE

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm) L	IC	S	be	bs	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	SEET12T3-SR	12.7	12.7	4.76	4.4	2.55																							
	SEET12T3-SR	12.7	12.7	4.76	4.4	2.55																							



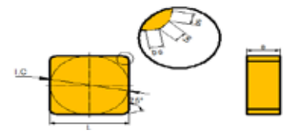
Material																												
	P	Steel																										
	M	Stainless Steel																										
	K	Cast Iron																										
	N	Non-ferrous Metal																										
	S	Titanium Alloy																										

+ Recommended / ~ General Purpose

SN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm) L	IC	S	be	bs	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	SNKN 42 ENN	SNKN1204ENN	12.7	12.7	4.76	0.9	1.5																							
	SNKN 53 ENN	SNKN1504ENN	15.875	15.875	4.76	0.9	1.5																							
	SNKN 63 ENN	SNKN1904ENN	19.05	19.05	4.76	1.0	1.5																							



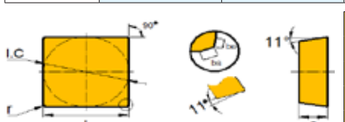
Material																												
	P	Steel																										
	M	Stainless Steel																										
	K	Cast Iron																										
	N	Non-ferrous Metal																										
	S	Titanium Alloy																										

+ Recommended / ~ General Purpose

SP

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm) L	IC	S	be	bs	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	SPEN 42 DR	SPEN1203EDR	12.7	12.7	3.18	1	1.4																							
	SPEN 42 EDL	SPEN1203EDL	12.7	12.7	3.18	1	1.4																							
	SPEN 42 EDER	SPEN1203EDER	12.7	12.7	3.18	1	1.4																							
	SPEN 42 EDEL	SPEN1203EDEL	12.7	12.7	3.18	1	1.4																							
	SPEN 42 EDFR	SPEN1203EDFR	12.7	12.7	3.18	1	1.4																							
	SPEN 42 EDEL	SPEN1203EDFL	12.7	12.7	3.18	1	1.4																							
	SPEN 42 EDSR	SPEN1203EDSR	12.7	12.7	3.18	1	1.4																							
	SPEN 42 EDSL	SPEN1203EDSL	12.7	12.7	3.18	1	1.4																							
	SPEN 42 EDTR	SPEN1203EDTR	12.7	12.7	3.18	1	1.4																							
	SPEN 42 EDTL	SPEN1203EDTL	12.7	12.7	3.18	1	1.4																							
	SPKN 53 EDER	SPKN1504EDER	15.875	15.875	4.76	1	1.4																							
	SPKN 53 EDEL	SPKN1504EDEL	15.875	15.875	4.76	1	1.4																							
	SPKN 53 EDFR	SPKN1504EDFR	15.875	15.875	4.76	1	1.4																							
	SPKN 53 EDFL	SPKN1504EDFL	15.875	15.875	4.76	1	1.4																							
	SPKN 53 EDSR	SPKN1504EDSR	15.875	15.875	4.76	1	1.4																							
	SPKN 53 EDSL	SPKN1504EDSL	15.875	15.875	4.76	1	1.4																							
	SPKN 53 EDTR	SPKN1504EDTR	15.875	15.875	4.76	1	1.4																							
	SPKN 53 EDTL	SPKN1504EDTL	15.875	15.875	4.76	1	1.4																							
	SPCN 53 DFR	SPCN1504EDFR	15.875	15.875	4.76	1	1.4																							
	SPCN 53 DFL	SPCN1504EDFL	15.875	15.875	4.76	1	1.4																							



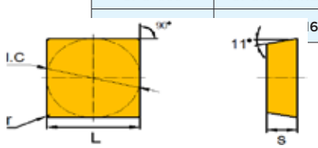
Material																												
	P	Steel																										
	M	Stainless Steel																										
	K	Cast Iron																										
	N	Non-ferrous Metal																										
	S	Titanium Alloy																										

+ Recommended / ~ General Purpose

SP

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																					
							CVD													PVD				Uncoated			
			L	IC	S	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	SPU-321	SPUN090304	9.525	9.525	3.18	0.4																							
	SPU-322	SPUN090308	9.525	9.525	3.18	0.8																							
	SPU-421	SPUN120304	12.7	12.7	3.18	0.4																							
	SPU-422	SPUN120308	12.7	12.7	3.18	0.8																							
	SPU-423	SPUN120312	12.7	12.7	3.18	1.2																							
	SPU-532	SPUN150408	15.875	15.875	4.76	0.8																							
	SPU-533	SPUN150412	15.875	15.875	4.76	1.2																							
	SPU-632	SPUN190408	19.05	19.05	4.76	0.8																							
	SPU-633	SPUN190412	19.05	19.05	4.76	1.2																							
	SPU-634	SPUN190416	19.05	19.05	4.76	1.6																							
	SPG-321	SPGN090304	9.525	9.525	3.18	0.4																							
	SPG-322	SPGN090308	9.525	9.525	3.18	0.8																							
	SPG-422	SPGN120308	12.7	12.7	3.18	0.8																							
	SPG-431	SPGN120404	12.7	12.7	4.76	0.4																							
	SPG-432	SPGN120408	12.7	12.7	4.76	0.8																							
	SPG-433	SPGN120412	12.7	12.7	4.76	1.2																							
	SPG-532	SPGN150408	15.875	15.875	4.76	0.8																							
	SPG-533	SPGN150412	15.875	15.875	4.76	1.2																							
	SPG-632	SPGN190408	19.05	19.05	4.76	0.8																							
	SPG-633	SPGN190412	19.05	19.05	4.76	1.2																							
		6	19.05	19.05	4.76	1.6																							



Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

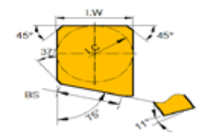
+ Recommended / ~ General Purpose

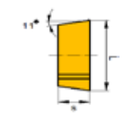
Milling Inserts

SP

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)						Coating																				
									CVD													PVD				Uncoated			
			L	IC	IW	S	bs	be	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	SPEX 42 EDL-1	SPEX1203EDL-1	15	12.7	12.7	3.18	1.4	1																							
	SPEX 42 EDL-1	SPEX1203EDR-1	15	12.7	12.7	3.18	1.4	1																							
	SPEX 53 EDL-1	SPEX1504EDL-1	18.2	15.875	15.875	4.76	1.4	1																							
	SPEX 53 EDL-1	SPEX1504EDR-1	18.2	15.875	15.875	4.76	1.4	1																							





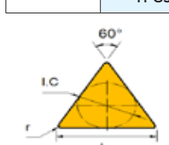
Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

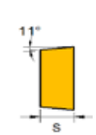
+ Recommended / ~ General Purpose

TP

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																						
							CVD															PVD				Uncoated			
			L	IC	S	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	TPG321	TPGN160304	16.5	9.525	3.18	0.4																							
	TPG322	TPGN160308	16.5	9.525	3.18	0.8																							
	TPG323	TPGN160312	16.5	9.525	3.18	1.2																							
	TPG324	TPGN160316	16.5	9.525	3.18	1.6																							
	TPG422	TPGN220308	22	12.7	4.76	0.8																							
	TPG431	TPGN220404	22	12.7	4.76	0.4																							
	TPG432	TPGN220408	22	12.7	4.76	0.8																							
	TPG433	TPGN220412	22	12.7	4.76	1.2																							
	TPG434	TPGN220416	22	12.7	4.76	1.6																							
	TPG532	TPGN270408	27.5	15.875	4.76	0.8																							
	TPG533	TPGN270412	27.5	15.875	4.76	1.2																							





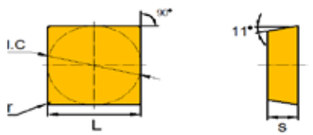
Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

+ Recommended / ~ General Purpose

SP

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																					
							CVD														PVD				Uncoated			
			L	IC	S	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	SPMR-321	SPMR090304	9.525	9.525	3.18	0.4																							
	SPMR-322	SPMR090308	9.525	9.525	3.18	0.8																							
	SPMR-32.51	SPMR09T304	9.525	9.525	3.97	0.4																							
	SPMR-32.52	SPMR09T308	9.525	9.525	3.97	0.8																							
	SPMR-421	SPMR120304	12.7	12.7	3.18	0.4																							
	SPMR-422	SPMR120308	12.7	12.7	3.18	0.8																							
	SPMR-423	SPMR120312	12.7	12.7	3.18	1.2																							



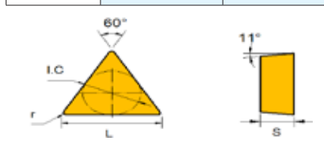
Material																													
	P	Steel																											
	M	Stainless Steel																											
	K	Cast Iron																											
	N	Non-ferrous Metal																											
	S	Titanium Alloy																											

+ Recommended / ~ General Purpose

TP

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																					
							CVD														PVD				Uncoated			
			L	IC	IW	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	TPU 321	TPUN160304	16.5	9.525	3.18	0.4																							
	TPU 322	TPUN160308	16.5	9.525	3.18	0.8																							
	TPU 323	TPUN160312	16.5	9.525	3.18	1.2																							
	TPU 332	TPUN160408	16.5	9.525	4.76	0.8																							
	TPU 333	TPUN160412	16.5	9.525	4.76	1.2																							
	TPU 431	TPUN220404	22	12.7	4.76	0.4																							
	TPU 432	TPUN220408	22	12.7	4.76	0.8																							
	TPU 433	TPUN220412	22	12.7	4.76	1.2																							
	TPU 434	TPUN220416	22	12.7	4.76	1.6																							
	TPMR 321	TPMR160304	16.5	9.525	4.76	0.4																							
	TPMR 322	TPMR160308	16.5	9.525	4.76	0.8																							
	TPMR 322	TPMR160312	16.5	9.525	4.76	1.2																							
	TPMR 433	TPMR220412	22	12.7	4.76	1.2																							



Material																													
	P	Steel																											
	M	Stainless Steel																											
	K	Cast Iron																											
	N	Non-ferrous Metal																											
	S	Titanium Alloy																											

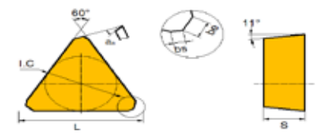
+ Recommended / ~ General Purpose

Milling Inserts

TP

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)						Coating																			
									CVD													PVD			Uncoated			
			L	IC	S	be	bs	be	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	TPKN 43 PDFR	TPKN2204PDFR	22	12.7	4.76	1.4	0.7	an																							
	TPKN 43 PDEL	TPKN2204PDFL	22	12.7	4.76	1.4	0.7	15°																							
	TPKN 43 PDR	TPKN2204PDR	22	12.7	4.76	1.4	0.7	15°																							
	TPKN 43 PDL	TPKN2204PDL	22	12.7	4.76	1.4	0.7	15°																							
	TPKN 43 PDTR	TPKN2204PDTR	22	12.7	4.76	1.4	0.7	15°																							
	TPKN 43 PDTL	TPKN2204PDTL	22	12.7	K	1.4	0.7	15°																							



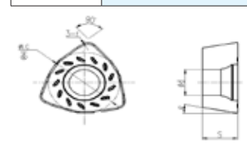
Material																													
	P	Steel																											
	M	Stainless Steel																											
	K	Cast Iron																											
	N	Non-ferrous Metal																											
	S	Titanium Alloy																											

+ Recommended / ~ General Purpose

WP

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm)					Coating																					
							CVD														PVD				Uncoated			
		L	IC	S	r	α	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	WPGT050315ZSR	7.94	1.5	3.5	1.5	11°																							
	WPGT060415ZSR	9.525	1.5	4.2	1.5	11°																							
	WPGT06415ZSR	12.85	1.5	6.35	1.5	11°																							
	WPGT090725ZSR	12.7	2.5	7	2	11°																							



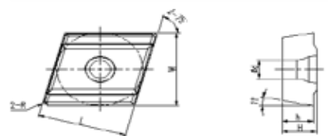
Material																													
	P	Steel																											
	M	Stainless Steel																											
	K	Cast Iron																											
	N	Non-ferrous Metal																											
	S	Titanium Alloy																											

+ Recommended / ~ General Purpose

XP

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm)						Coating																					
								CVD														PVD			Uncoated			
		L	W	S	d	H	R	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	XPGT120406R-DH	13	12.5	4.6	3.25	5	0.6																						
	XPGT120406L-DH	13	12.5	4.6	3.25	5	0.6																						



Material																													
	P	Steel																											
	M	Stainless Steel																											
	K	Cast Iron																											
	N	Non-ferrous Metal																											
	S	Titanium Alloy																											

+ Recommended / ~ General Purpose

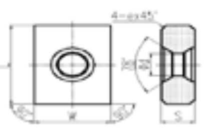
Heavy Duty Milling Inserts

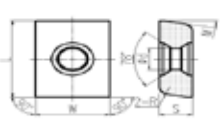
LN	LNEC, LNEQ, LNEX	54 - 58
SN	SNEC, SNEQ, SNEX	58 - 62
XN	XNEQ	62

LN

• Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm)						Coating																						
								CVD															PVD				Uncoated			
		L	W	S	E	d	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	LNEC191406-400	19.05	14.29	6.35		5.5																								
	LNEC191406-402-22	19.05	14.29	6.35		5.5																								
	LNEC281409-400	28.575	14.29	6.35		5.5																								
	LNEC191207A-2R20E23	19.05	12.7	7.15	23°	5.5	2																							
	LNEC191406-2R20E15	19.05	12.7	6.35	15°	5.5	2																							
	LNEQ191405-2R25E23	19.05	12.7	5	15°	5.5	2.5																							
	LNEQ191406-2R25E23	19.05	12.7	6.35	15°	5.5	2.5																							





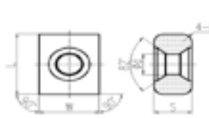
Material	P	Steel																							
	M	Stainless Steel																							
	K	Cast Iron																							
	N	Non-ferrous Metal																							
	S	Titanium Alloy																							

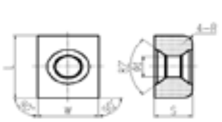
+ Recommended / ~ General Purpose

LN

• Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)						Coating																						
									CVD															PVD				Uncoated			
			L	W	S	a	d	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	LNEC-425-4R10	LNEC151207-4R10	15.875	12.7	7.94	82°	5.5	1																							
	LNEC-425-4R20	LNEC151207-4R20	15.875	12.7	7.94	82°	5.5	2																							
	LNEC-425-4R30	LNEC151207-4R30	15.875	12.7	7.94	82°	5.5	3																							
	LNEC-425-2-R20	LNEC151207-2-R20																													
	LNEC-425-2-R30	LNEC151207-2-R30																													





Material	P	Steel																							
	M	Stainless Steel																							
	K	Cast Iron																							
	N	Non-ferrous Metal																							
	S	Titanium Alloy																							

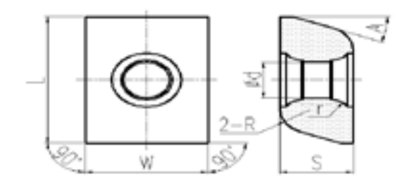
+ Recommended / ~ General Purpose

Heavy Duty Milling Inserts

LN

• Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm)						Coating																						
								CVD															PVD				Uncoated			
		L	W	S	d		R	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	LNEX191408-2R35E20	19.05	14.29	8.5	20°	5.5	3.5																							



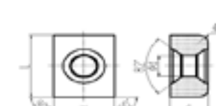
Material	P	Steel																							
	M	Stainless Steel																							
	K	Cast Iron																							
	N	Non-ferrous Metal																							
	S	Titanium Alloy																							

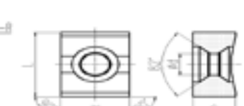
+ Recommended / ~ General Purpose

LN

• Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)						Coating																						
									CVD															PVD				Uncoated			
			L	W	S	a	d	r	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	LNEC-425-DR115	LNEC151207-DR115	15.875	12.7	7.94	82°	11.5	5.5																							
	LNEC-425-DR130	LNEC151207-DR130	15.875	12.7	7.94	82°	13	5.5																							
	LNEC-425-DR145	LNEC151207-DR145	15.875	12.7	7.94	82°	14.5	5.5																							
	LNEC-425-DR160	LNEC151207-DR160	15.875	12.7	7.94	82°	16	5.5																							
	LNEC-425-DR200	LNEC151207-DR200	15.875	12.7	7.94	82°	20	5.5																							
	LNEC-425-DR250	LNEC151207-DR250	15.875	12.7	7.94	82°	25	5.5																							
	LNEC-425-DR400	LNEC151207-DR400	15.875	12.7	7.94	82°	40	5.5																							
	LNEC-425-DR800	LNEC151207-DR800	15.875	12.7	7.94	82°	80	5.5																							
	LNEC-425-NR100	LNEC151207-NR100	15.875	12.7	7.94	82°	10	5.5																							
	LNEC-425-2NR100	LNEC151207-2NR100	15.875	12.7	7.94	82°	10	5.5																							
	LNEC-425-NR130	LNEC151207-NR130	15.875	12.7	7.94	82°	13	5.5																							
	LNEC-425-2NR130	LNEC151207-2NR130	15.875	12.7	7.94	82°	13	5.5																							
	LNEC-425-2NR130	LNEC151207-2NR130	15.875	12.7	7.94	82°	16	5.5																							
	LNEC-425-NR140	LNEC151207-NR140	15.875	12.7	7.94	82°	14	5.5																							
	LNEC-425-2NR140	LNEC151207-2NR140	15.875	12.7	7.94	82°	14	5.5																							
	LNEC-425-NR150	LNEC151207-NR150	15.875	12.7	7.94	82°	15	5.5																							
	LNEC-425-NR800	LNEC151207-NR800	15.875	12.7	7.94	82°	80	5.5																							
	LNEC151207-2NR3000	LNEC151207-2NR3000	15.875	12.7	7.94	82°	300	5.5																							





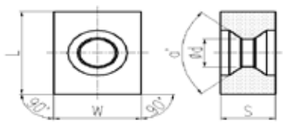
Material	P	Steel																							
	M	Stainless Steel																							
	K	Cast Iron																							
	N	Non-ferrous Metal																							
	S	Titanium Alloy																							

+ Recommended / ~ General Purpose

LN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm) L	W	S	a	d	e	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	LNEC-425	LNEC151207	15.875	12.7	7.94	82°	5.5																									
	LNEC-425-404	LNEC151207-404	15.875	12.7	7.94	82°	5.5																									
	LNEQ-425	LNEQ151207	15.875	12.7	7.94	60°	5.5																									
	LNEQ-425-404	LNEQ151207-404	15.875	12.7	7.94	60°	5.5	0.4																								



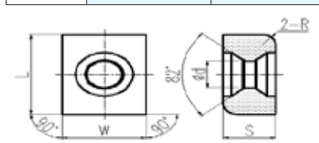
Material																																
	P	Steel																														
	M	Stainless Steel																														
	K	Cast Iron																														
	N	Non-ferrous Metal																														
	S	Titanium Alloy																														

+ Recommended / ~ General Purpose

LN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm) L	W	S	a	d	r	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	LNEC-425-2R30	LNEC151207-2R30	15.875	12.7	7.94	82°	5.5	3																								
	LNEC-425-2R35	LNEC151207-2R35	15.875	12.7	7.94	82°	5.5	3.5																								
	LNEC-425-2R40	LNEC151207-2R40	15.875	12.7	7.94	82°	5.5	4																								
	LNEC-425-2R45	LNEC151207-2R45	15.875	12.7	7.94	82°	5.5	4.5																								
	LNEC-425-2R50	LNEC151207-2R50	15.875	12.7	7.94	82°	5.5	5																								
	LNEC-425-2R55	LNEC151207-2R55	15.875	12.7	7.94	82°	5.5	5.5																								



Material																																
	P	Steel																														
	M	Stainless Steel																														
	K	Cast Iron																														
	N	Non-ferrous Metal																														
	S	Titanium Alloy																														

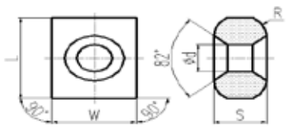
+ Recommended / ~ General Purpose

Heavy Duty Milling Inserts

LN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm) L	W	S	a	R	d	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	LNEC-425-4R50H	LNEC151207-4R50H	15.875	12.7	7.94	82°	5	5.5																								
	LNEC-424-4R40H	LNEC151206-4R40H	15.875	12.7	6.35	82°	4	5.5																								
	LNEC-424D-4R40H	LNEC151206D-4R40H	15.875	12.7	6.35	82°	4	5.5																								
	LNEC-424D-4R50H	LNEC151206D-4R50H	15.875	12.7	7.94	82°	5	5.5																								
	LNEC-424D-4R55H	LNEC151206D-4R55H	15.875	12.7	7.94	82°	5.5	5.5																								
	LNEC-424-4R65H	LNEC151206D-4R65H	15.875	12.7	7.94	82°	6.5	5.5																								
	LNEC-425D-4R40H	LNEC151207D-4R40H	15.875	12.7	7.94	82°	4	5.5																								
		LNEC181206D-4R50H	18.47	12.7	6.35	82°	5	5.5																								



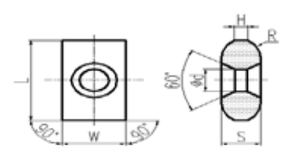
Material																																
	P	Steel																														
	M	Stainless Steel																														
	K	Cast Iron																														
	N	Non-ferrous Metal																														
	S	Titanium Alloy																														

+ Recommended / ~ General Purpose

LN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm) L	W	S	a	d	r	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	LNEQ-423-4R30H-T22	LN-EQ150904-4R30H-T22	15.875	9.525	4.76	60°	3	4.4																								
		LNEQ151104-4R30H-T32	15.875	11.00	4.76	60°	3	5.5																								
	LNEQ-424-4R50H-T21	LNEQ151206-4R50H-T21	15.875	12.7	6.35	60°	5	5.5																								
	LNEC-425-2R45	LNEC151207-2R45	15.875	12.7	7.94	82°	5.5	4.5																								



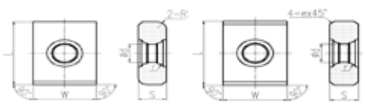
Material																																
	P	Steel																														
	M	Stainless Steel																														
	K	Cast Iron																														
	N	Non-ferrous Metal																														
	S	Titanium Alloy																														

+ Recommended / ~ General Purpose

LN

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm)					Coating																					
							CVD													PVD				Uncoated			
		L	W	S	d	R	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	LNEX191406-2R24-T31	19.05	14.29	6.35	5.5	2.4																							
	LNEX191406-400	19.05	14.29	6.35	5.5																								
	LNEX191406-408-T31	19.05	14.29	6.35	5.5																								



Material																													
P	Steel																												
M	Stainless Steel																												
K	Cast Iron																												
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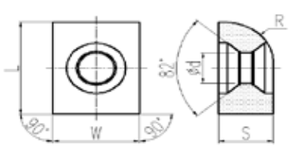
+ Recommended / ~ General Purpose

LN

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm)					Coating																					
							CVD													PVD				Uncoated			
		L	W	S	d	R	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	LNEC151207-1R70	15.875	12.7	7.94	5.5	7																							
	LNEC151207-1R180	15.875	12.7	7.94	5.5	18																							



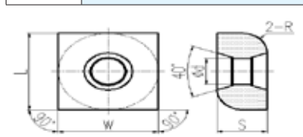
Material																													
P	Steel																												
M	Stainless Steel																												
K	Cast Iron																												
N	Non-ferrous Metal																												
S	Titanium Alloy																												

+ Recommended / ~ General Purpose

SN

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm)					Coating																					
							CVD													PVD				Uncoated			
		L	W	S	d	R	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	SNEQ151507-2R40-T24	15.875	15.875	7.94	5.5	2.4																							



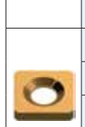
Material																													
P	Steel																												
M	Stainless Steel																												
K	Cast Iron																												
N	Non-ferrous Metal																												
S	Titanium Alloy																												

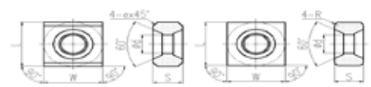
+ Recommended / ~ General Purpose

Heavy Duty Milling Inserts

SN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																					
							CVD													PVD				Uncoated			
			L	W	S	d	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	SNEQ-45-405-T40	SNEQ121206-405-T40	12.7	12.7	6.35	5.5																							
	SNEQ-45A-405-T33	SNEQ121206A-405-T33	12.7	12.7	6.35	4.4																							
		SNEQ12A12A06-403-T33	12.0	12.0	6.35	4.4																							
		SNEQ14A14A06-405-T32	12.0	12.0	6.35	4.4																							
	SNEQ-45-405X-T40	SNEQ121206-405X-T40	12.7	12.7	6.35	5.5																							
	SNEQ-45A-405X-T33	SNEQ121206A-405X-T33	12.7	12.7	6.35	4.4																							
		SNEQ12A12A06-403X-T33	12.0	12.0	6.35	4.4																							
		SNEQ14A14A06-405X-T32	12.0	12.0	6.35	4.4																							



Material																													
P	Steel																												
M	Stainless Steel																												
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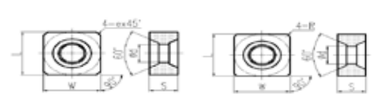
N	Non-ferrous Metal																												
S	Titanium Alloy																												

+ Recommended / ~ General Purpose

SN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm)				Coating																					
							CVD													PVD				Uncoated			
			L	W	S	d	XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	XK1025	XK1025A	XK1125	XK1225	XK-P101	XK-P401	XK-K001	XK-K101
	SNEQ-45-403X	SNEQ121206-403X	12.7	12.7	6.35	5.5																							
	SNEQ-45-408X	SNEQ121206-408X	12.7	12.7	6.35	5.5																							
	SNEQ-45-4R02X	SNEQ121206-4R02X	12.7	12.7	6.35	5.5																							
	SNEQ-45-4R04X	SNEQ121206-4R04X	12.7	12.7	6.35	5.5																							
	SNEQ-45-4R08X	SNEQ121206-4R08X	12.7	12.7	6.35	5.5																							



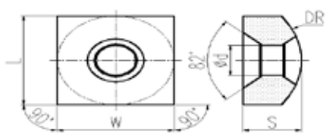
Material																													
P	Steel																												
M	Stainless Steel																												
K	Cast Iron																												
N	Non-ferrous Metal																												
S	Titanium Alloy																												

+ Recommended / ~ General Purpose

SN

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm) L	W	S	d	R	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	SNEC151507-DR130-T50	15.875	15.875	7.94	5.5	13																								



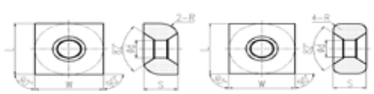
Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

+ Recommended / ~ General Purpose

SN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm) L	W	S	d	R	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	SNEC-55-2R20-T23	SNEC151507-2R20-T23																												
	SNEC-55-2R20-T24	SNEC151507-2R20-T24																												
	SNEC-55-2R115-T51	SNEC151507-2R115-T51																												
	SNEC-55-4R20-T23	SNEC151507-4R20-T23																												



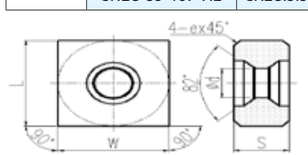
Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

+ Recommended / ~ General Purpose

SN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm) L	W	S	d	R	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	SNEC-55-400	SNEC151507-400	15.875	15.875	7.94	5.50																								
	SNEC-55-408	SNEC151507-408	15.875	15.875	7.94	5.50																								
	SNEC-55-408-T34	SNEC151507-408-T34	15.875	15.875	7.94	5.50																								
	SNEC-55-407-T12	SNEC151507-407-T12	15.875	15.875	7.94	5.50																								



Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

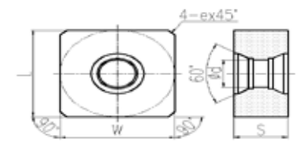
+ Recommended / ~ General Purpose

Heavy Duty Milling Inserts

SN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm) L	W	S	d	R	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	SNEQ-55-403X-T22	SNEQ111106-403X-T22	15.875	15.875	7.94	5.50																								
	SNEQ-55A-416X	SNEQ171708A-416X	15.875	15.875	7.94	5.50																								



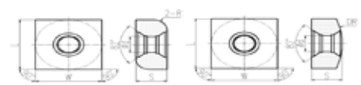
Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

+ Recommended / ~ General Purpose

SN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm) L	W	S	d	R	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	SNEC-55-2R32	SNEC151507-2R32	15.875	15.875	7.94	5.50	3.2																							
	SNEC-55-2R32	SNEC151507-DR235	15.875	15.875	7.94	5.50	23.5																							



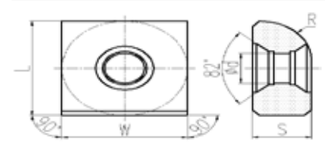
Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

+ Recommended / ~ General Purpose

SN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm) L	W	S	d	R	Coating CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	SNEX-55-1R70-T33	SNEX151507-1R70-T33	15.875	15.875	7.94	5.50	3.2																							



Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

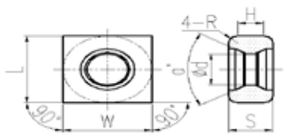
+ Recommended / ~ General Purpose

Heavy Duty Milling Inserts

SN

● Stocked Standard / ○ Non-stocked

Shape	ANSI	ISO	Dimensions (mm) L	W	S	R	d	Coating: CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	SNEX-33-4R30H	SNEX090904-4R30H	9.525	9.525	4.76	3	5.5																								



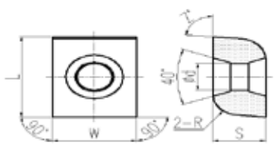
Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

+ Recommended / ~ General Purpose

XN

● Stocked Standard / ○ Non-stocked

Shape	ISO	Dimensions (mm) L	W	S	a	d	r	Coating: CVD XK4015	XK4115	XK4025	XK4125	XK4035	XK4135	XK4135	XK3005	XK3105	XK3015	XK3115	XK3025	XK3125	XK2015	XK2025	PVD XK1025	XK1025A	XK1125	XK1225	Uncoated XK-P101	XK-P401	XK-K001	XK-K101
	XNEQ151507A-2R40-T20	15.875	12.7	7.15	5.5	88°	5.5																								
	XNEQ151507A-2R27-T20	15.875	12.7	7.15	5.5	88°	5.5																								
	XNEQ151507A-2R47-T20	15.875	12.7	7.15	5.5	88°	5.5																								



Material		
	P	Steel
	M	Stainless Steel
	K	Cast Iron
	N	Non-ferrous Metal
	S	Titanium Alloy

+ Recommended / ~ General Purpose

Uncoated Grade

ISO CODE			JTCC	ZCC	SANDVIK	KENNAMETAL	SECO	ISCAR	MITSUBISHI	SUMITOMO	TOSHIBA	KYOCERA	DIJET	HITACHI	TAEGUTEC
Turning	P	P01	JP051										SRN		
		P10	JP101	YC10	S1P	P10		IC70		ST10P ST15E	TX10S		SRT	WS10	
		P20	JP201	YC25S	SMA	K125M TTM		IC70 IC50M	UTi20T	ST20E	TX20 TX25		SRT DX30	EX35	P20
		P30	JP301	YC30S	SM30	GK K600 TTR		IC50M IC54	UTi20T	A30 A30N	TX30 UX30	PW30	SR30 DX30 DX35	EX35 EX40	P30
		P40	JP401	YC40	S6	G13		IC54		ST40E	TX40		SR30 DX35	EX45	P40A
	M	M10	JP101		H10A	K313	890			EH510 U10E	TU10		UMN UM10	WA10B	M10
		M20	JP201	YD201	H13A	K68 KMF K125M TTM	HX 883	IC08	UTi20T	EH520 U2	TU20		DX25 UM20 UMS	EX35	M20
		M30	JP301	YM30 YC30S	H10F SM30	K600 TTR		IC08 IC28	UTi20T	A30 A30N	UX30		DX25 UM30 UMS	EX40 EX45	
		M40	JP401	YC40	S6	G13		IC28			TU40		UM40	EX45	M40
	K	K01	JK051	YD051	H1P	K605			HTi05T	H1 H2	TH03		KG03	WH05	
		K10	JK051 JK101	YD051 YD101 YD15S	H1P H10 HM	K10 K313 KF1 KM1 K110M THM THM-U	890	IC20	HTi10	EH10 EH510	G1F TH10	KW10	KG10 KT9 CR1	WH10	K10
		K20	JK201	YD201	H13A	K715 KMF K600	890 HX 883	IC20 IC10	UTi20T	G10E EH20 EH520	G2F G2 KS20		KT9 CR1 KG20	WH20	K20
		K30	JK301			THR	883	IC10 IC28	UTi20T	G10E	G3		KG30		K30
	N	N01	JK101 JK201	YD101 YD201	H10 H13A	K605				H1 H2			KG03		
		N10				K10 K313 KF1 KM1 K110M THM THM-U	890 H15		HTi10	EH10 EH510	TH10 H10T KS05F		KG10 KT9		K10
		N20				K715 KMF K600	HX KX 883 H15 H25			G10E EH20 EH520			CR1 KG20		K10
		N30				G13 THR	H25						KG30		
	S	S01							RT9005				KG03		K10
		S10	JK101 JK201	YD101 YM30 YD201	H10 H10A H10F H13A	K10 K313 THM	890		RT9005 RT9010	EH10 EH510	TH10		FZ05 KG10		K10
		S20				K715 KMF	890 883 HX H25		RT9010 TF15	EH20 EH520	KS20		FZ15 KG20		K20
		S30				G13 K600 THR			TF15				KG30		K30
Milling	P	P10	JP101	YC10	S1P								SRT		
		P20				K125		IC50M IC28	UTi20T	A30N	TX25		SRT DX30	EX35	P20
		P30				GX K600		IC50M IC28	UTi20T	A30N	UX30	PW30	SR30 DX30	EX35 EX40	P30
		P40						IC28				PW30	SR30	EX45	P40A
	M	M10				K110M							UMN		M10
		M20				K313			UTi20T	A30N			DX25 UMS	EX35	M20
		M30				KFM K600		IC28	UTi20T	A30N	UX30		DX25 UMS	EX40 EX45	M20
		M40						IC28			TU40			EX45	M40
	K	K01	JK001						HTi05T				KG03		UF10
		K10	JK051	YD051	H1P	K110M K313		IC20	HTi10	G10E	TH10	KW10	KG10	WH10	UF10
		K20				KFM	HX	IC20 IC10	HTi20T	G10E			KT9 CR1 KG20	WH20	K20
		K30						IC10 IC18	HTi20T				KG30		K30

CVD Grade

ISO CODE			JTCC	ZCC	SANDVIK	KENNAMETAL	SECO	ISCAR	MITSUBISHI	SUMITOMO	TOSHIBA	KYOCERA	DIJET	HITACHI	TAEGUTEC
Turning	P	P01			GC4005	KC9110 TN7005	TP1000		UE6005	AC700G	T9005	CR7015	JC110V	GM8015H C5000	
		P10	JT4015 JT4115	YBC151	GC4005 GC4015 GC3115	KC9110 TN7005 TN7010	TP1000 TP2000 TP200 TX150	IC9015	UE6005 UE6010 UE6020 UC6010	AC700G AC2000	T9015	CA5515 CR7015	JC110V JC215V	GM8015 GM8020 GM10	TT8115
		P20	JT4025 JT4125	YBC251	GC4015 GC4025 GC2015 GC3025	KC9125 TN7015	TP2000 TP200	IC9025	UE6010 UE6020 UC6010	AC2000	T9015 T9025	CA5515 CA5525 CA5025 CR9025	JC110V JC215V	GM8020 GM25	TT5100 TT8125
		P30	JT4035 JT4135	YBC351	GC4025 GC4035 GC2025 GC2135	KC8050 KC850 TN7025	TP3000 TP300 TP400	IC656 IC9054	UE6035 UH6400 US735	AC3000	T9025 T9035	CA5525 CA5025 CA9025	JC215V JC325V	GM8035 GM25	TT5100 TT8135
		P40	JT4135	YBC351 YB235	GC4035 GC235	KC9040	TP400 TP40	IC9054 IC635	UE6035 UH6400 US735	AC3000	T9035		JC325V JC450V	GM8035 GX30 GF30	TT8135
	M	M10	JT2015	YBM151	GC2015	TN7010	TP200		US7020	AC2000	T9015	CA6015	JC110V	GM10	TT9215
		M20	JT2025	YBM251	GC2025	KC9225 TN7015 TN7525	TP200 TP300	IC9025	US7020	AC2000	T6020	CA6015	JC110V	GM8020 GM25	TT9215 TT9225
		M30	JT2025	YB235	GC2135 GC235	KC9040 KC8050 TN7025 TN8025	TP300 TP400 TP40	IC9025	US735	AC3000 AC304	T6030			GM25 GX30 GF30	TT9225 TT9235
		M40	JT2025	YB235	GC235	KC9240 KC9245	TP400 TP40		US735	AC304				GX30 GF30	TT9235
	K	K01	JT3015 JT3115	YBD052 YBD102	GC3205 GC3210		TX100	IC9007	UC5105 UC5005	AC300G	T5010	CA4010	JC105V	GM3005 GM8015	TT7005
		K10	JT3015 JT3115	YBD102 YBD151 YBD152	GC3005 GC3015 GC3115 GC3205 GC3210	KC9315 TN5015 TN7010	TX100 TX150	IC418 IC428	UC5115 UC5015 UE6010 UC6010	AC700G	T5010 T5020	CA4010 CA4115	JC105V JC110V	GM8015 GM8020	TT7005 TT7015
		K20	JT3025 JT3125	YBD252	GC3215 GC3025	KC9325 TN5020 TN7015	TP200 TX150	IC9015	UE6010 UC6010	AC700G	T5020	CA4120	JC100V JC215V	GM8020 GM25	TT7015
		K30	JT3025 JT3125	YBD252		KC8050 KC9040 TN7025	TP200						JC215V	GM25	TT7015
Milling	P	P10					T200M T250M								TT6800
		P20	JT4030	YBC201 YBM251	GC4020		T200M T250M T350M T25M	IC520M	F7030				JC730U		TT6800
		P30	JT4030	YBC301	GC4030	KC930M	T250M T350M T25M	IC4050 IC450	F7030	AC230	T3030			GX30	TT6800 TT7800
		P40	JT4030	YBC401 YBM351 YB235	GC4030		T350M	IC4050 IC635							TT7800
	M	M10	JT4030												
		M20	JT4030	YB235		KC925M	T250M T25M		F7030				JC730U		
		M30	JT4040 JT4240	YBM351 YBC401	GC2040	KC930M	T350M T25M		F7030		T3030			GX30	TT7800
		M40													TT7800
	K	K01													
		K10				KC915M		IC4010 IC418	F5010	AC211	T1015		JC600		TT6800
		K20			GC3020	KC925M	T150M T200M	IC520M	F5020		T1020		JC610		TT6800
		K30	JT4030	YBG40	GC3040	KC930M	T200M	IC4050 IC450							TT6800

PVD Grade

ISO CODE			JTCC	ZCC	SANDVIK	KENNAMETAL	SECO	ISCAR	MITSUBISHI	SUMITOMO	TOSHIBA	KYOCERA	DIJET	TAEGUTEC
Turning	P	P01										PR951	JC5003	
		P10	JT1050	YBG102		KC5010 KC5510	CP200	IC507	VP10MF			PR630 PR91 5PR930	JC5003	
		P20	JT1025 JT1225	YBG202 YBM252 YBG201	GC1020G C4125 GC1025		CP250	IC507 IC570 IC308 IC908	VP15TF VP20MF			PR630 PR930	JC5015	TT9020
		P30	JT1035	YBG302			CP500	IC308 IC908 IC328 IC3028 IC354	VP15TF VP20MF			PR660	JC5015	TT8020 TT9020
		P40			GC1020 GC2145		CP500	IC328 IC3028 IC354						TT8020 TT9020
	M	M01								EH51Z				
		M10	JT1015	YBG102	GC1005G C1025	KC5010 KC5510	CP200	IC507 IC907	VP10MF	EH51Z		PR630 PR915	JC5003	TT5080
		M20	JT1025 JT1225	YBG202 YBM252 YBG201	GC1020G C1025 GC4125		CP200 CP500	IC507 IC908 IC1028	VP15TF VP20MF	EH52Z	GH330	PR630 PR915	JC5015	TT5080 TT9020 TT9080
		M30	JT1035	YBG302	GC1020 GC2035	KC5025 KC5525 KC710	CP500	IC328 IC3028 IC1028	VP15TF VP20MF		AH120	PR660	JC5015	TT8020 TT9020 TT9080
		M40			GC2145			IC328 IC3028						TT8020 TT9020 TT9080
	K	K01								EH10Z	AH110		JC5003	
		K10	JT1015	YBG102		KC5010 KC5510	CP200	IC507 IC907		EH10Z EH20Z	GH110 AH110		JC5003 JC5015	
		K20	JT1025 JT1225	YBG202 YBM252 YBG201	GC1020		CP200 CP250	IC308 IC908	VP15TF	EH20Z	AH120		JC5015	
		K30			GC4125		CP500	IC328 IC3028 IC1028	VP15TF					
	S	S01							VP05RT		AH110		JC5003	
		S10	JT1015 JT1025	YBG102 YBG202	GC1005 GC1025	KC5410 KC5014 KC5510	CP200 CP250 CP500		VP05RT VP10RT	EH51Z	AH120		JC5015	
		S20	JT1025 JT1225	YBG202	GC4125	KC5025 KC5525	CP250 CP500		VP10RT VP15TF	EH20Z EH520Z				
		S30							VP15TF					TT8020 TT9080

PVD Grade

ISO CODE			JTCC	ZCC	SANDVIK	KENNAMETAL	SECO	ISCAR	MITSUBISHI	SUMITOMO	TOSHIBA	KYOCERA	DIJET	TAEGUTEC
Milling	P	P01											JC5003	
		P10	JT1015	YBG102		KC792M KC715M				ACZ310		PR630 PR730 PR830	JC5003 JC5030	TT7080
		P20	JT1025 JT1225	YBG202 YBM252	GC1025	KC522M KC525M	F25M	IC950 IC908	VP15TF	ACZ310 ACZ330		PR630 PR730 PR830	JC5015 JC5030 JC5040	TT7080 TT9030 TT9080
		P30	JT1025 JT1035	YBG202 YBG302		KC725M	F25M F30M	IC250	VP15TF VP30RT	ACZ330 ACZ350	GH330 AH330 AH120 AH740	PR660	JC5015 JC5040	TT7080 TT9080 TT9030 TT8080 TT8020
		P40		YBG302 YBG402		KC735M	F40M T60M	IC328 IC928	VP30RT	ACZ350	AH120		JC5040	TT8020 TT9080 TT8080
	M	M10				KC715M						PR630 PR730 PR830	JC5003	
		M20	JT1025 JT1225	YBG202 YBM252	GC1025	KC522M KC525M	F25M	IC908	VP15TF	ACZ310	GH330	PR630 PR730 PR830	JC5015 JC5030 JC5040	TT9030 TT9080
		M30	JT1035	YBG302	GC2030	KC725M KC7355M	F30M F40M	IC928	VP15TF VP30RT	ACZ330 ACZ350	AH120	PR660	JC5015 JC5030 JC5040	TT8020 TT9030 TT8080 TT9080
		M40	JT1035	YBG302 YBG402				IC328	VP30RT	ACZ350	AH140			TT8020 TT9030 TT8080 TT9080
	K	K01									AH110	PR510	JC5003	
		K10	JT1015	YBG102		KC510M				ACZ310	AH110 GH110	PR510 PR905	JC5003 JC5015	TT6080 TT7080
		K20	JT1025 JT1225	YBG202		KC520MM KC522N KC525M		IC910 IC950	VP15TF	ACZ310	AH120	PR905	JC5015	TT6080 TT7080
		K30	JT1035	YBG302		KC725M		IC328 IC908 IC928	VP15TF					
	S	S01											JC5003	
		S10	JT1025	YBG202	GC1025	KC510M		IC908	VP15TF		AH120		JC5015	
		S20	JT1025	YBG202		KC522M KC525M		IC908	VP15TF					TT9030 TT9080
		S30	JT1035	YBG302		KC725M	F40M	IC328 IC928						TT7080 TT8080 TT9080
	H	H01											JC5003	TT9030
		H10	JT1015 JT1025	YBG102 YBG202			F15M		VP15TF				JC5015	TT6080
		H20	JT1025	YBG202			F15M		VP15TF					TT6080
		H30					F30M							

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