



# 陶瓷刀具 Ceramic Cutting Tools



成都邦普切削刀具股份有限公司  
Chengdu Bangpu Cutting Tools CO.,LTD

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## 陶瓷车削/铣削/槽铣/立铣刀目录 Ceramic Turning/Miling/Slot Miling/End Mill Catalog

车削刀片  
Turning Insert

轧辊车削  
Roll Turning

槽加工  
Pocketing

铣削刀片  
Milling Insert

修光刃刀片  
Polishing Insert

非标刀片  
Non-standard Insert

陶瓷立铣刀-通柄型  
Solid Ceramic End Mills Inserts-Straight Shank

陶瓷立铣刀-缩颈型  
Solid Ceramic End Mills Inserts-Reduced Neck Shank

01

02

05

29

31

35

43

46

49

50

# Grade information 牌号信息

牌号	ISO	材料特点	应用范围
Grade		Material Characteristics	Application Range
BAT10	H10	卓越的耐磨性和耐热冲击性能 Outstanding Wear Resistance and Thermal Shock Resistance	铸铁和淬火钢的精加工 Finishing of Cast Iron and Hardened Steel
BAT30	H20	卓越的耐磨性和耐热冲击性能 Outstanding Wear Resistance and Thermal Shock Resistance	钢件、铸件的一般加工 General Machining of Steel and Cast Iron Parts
BSN30	K05	卓越的耐磨性和耐热冲击性能 Outstanding Wear Resistance and Thermal Shock Resistance	适合铸铁、高硬钢、高温合金的高速连续切削 Suitable for High-Speed Continuous Machining of Cast Iron, Hardened Steel, and High-Temperature Alloys
BSN50	K30	优异的韧性和抗热冲击性能 Excellent Toughness and Thermal Shock Resistance	适合铸铁、高速连续或轻断续切削 Suitable for High-Speed Continuous or Light Intermittent Machining of Cast Iron
BSA80	S30	卓越的耐磨性和耐热冲击性能 Outstanding Wear Resistance and Thermal Shock Resistance	镍基合金、钴基合金的中、高速加工，连续或轻断续 Medium-High Speed Machining of Nickel-Based and Cobalt-Based Alloys under Continuous or Light Intermittent Conditions
BSA90	S35	卓越的耐磨性和耐热冲击性能 Outstanding Wear Resistance and Thermal Shock Resistance	镍基合金、钴基合金的一般加工(湿切/干切) General processing of nickel-based alloys and drill-based alloys (wet cutting/dry cutting)

# 刀片命名规则

## Code Key for Turning Inserts


车削	C	N	M	G
	1	2	3	4
铣削	S	P	K	N

12	04	04	E040
5	6	7	8
4	3		
		9	10
		E	D
			11
			T
			12
			R

### 1 刀片形状 Insert Shape

A 85°	
B 82°	
K 55°	
H 120°	
L 90°	
O 135°	
P 108°	
C 80°	
D 55°	
E 75°	
M 86°	
V 35°	
R -	
S 90°	
T 60°	
W 80°	

### 2 刀片后角 Clearance Angle



	a
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°
O	特殊

### 3 精度代号 Tolerance

	d (±mm)	m (±mm)	s (±mm)	d=6.35/9.525	d=12.7	d=15.875/19.05
A	0.025	0.005	0.025	●	●	●
C	0.025	0.013	0.025	●	●	●
E	0.025	0.025	0.025	●	●	●
F	0.013	0.005	0.025	●	●	●
G	0.025	0.025	0.130	●	●	●
H	0.013	0.013	0.025	●	●	●
J	0.050	0.05	0.025	●	●	●
K	0.080	0.013	0.025	●	●	●
M	0.05	0.08	0.13	●	●	●
N	0.08	0.13	0.025	●	●	●
U	0.13	0.20	0.13	●	●	●

### 3 内切圆

代号 C0de	内切圆直径 (mm) Incircle
2	6.35
3	9.525
4	12.7
5	15.875
6	19.05
8	25.4


### 3 厚度

代号 C0de	厚度 (mm) Thickness
2	3.18
3	4.76
4	6.35
5	7.94
6	9.52

### 3 刀尖圆弧半径


代号 C0de	刀尖圆弧半径 (mm) C0rner Radius
0.5	0.2
1	0.4
2	0.8
3	1.2
4	1.6
5	2.0
6	2.4

### 6 刀片厚度 Thickness S(mm)



01	S=1.59
T1	S=1.98
02	S=2.38
03	S=3.18
T3	S=3.97
04	S=4.76
05	S=5.56
06	S=6.35
07	S=7.94
09	S=9.52

### 7 刀尖圆弧半径 C0rner Radius R



	R (mm)
02	0.2
04	0.4
05	0.5
08	0.8
12	1.2
16	1.6
20	2.0
24	2.4
32	3.2

圆形刀片  
00 内切圆 (英制)  
M0 内切圆 (公制)

### 4 切削槽及夹固形式 Type

R 无中心孔	Q 圆柱孔 + 双面倒角 40°-60°
F 无中心孔	C 圆柱孔 + 双面倒角 70°-90°
N 无中心孔	G 圆柱孔
A 圆柱孔	T 圆柱孔 + 单面倒角 40°-60°
M 圆柱孔	H 圆柱孔 + 单面倒角 70°-90°
U 圆柱孔 + 双面倒角 ≤65°	W 圆柱孔 + 单面倒角 40°-60°
J 圆柱孔 + 双面倒角 >65°	B 圆柱孔 + 单面倒角 70°-90°
X 特殊设计	

### 5 切削刃长度 Cutting Edge Length

d mm	C	D	R	S	T	V	W
5.56	05	-	-	05	09	-	03
6.0	-	-	06	-	-	-	-
6.35	06	07	-	06	11	11	04
6.65	-	-	-	-	-	-	-
7.94	07	-	-	07	-	-	-
8.0	-	-	08	-	-	-	-
9.525	09	11	-	09	16	16	06
10.0	-	-	10	-	-	-	-
12.0	-	-	12	-	-	-	-
12.7	12	15	-	12	22	22	08
15.875	16	19	-	15	27	-	10
16.0	-	-	16	-	-	-	-
16.74	-	-	-	16	-	-	-
19.05	19	-	-	19	33	-	13
20.0	-	-	20	-	-	-	-
25.4	25	-	25	25	-	-	-

### 8.Shape and Corner

Detailed edge preparations refer to the next page.

### 10.后角

A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°

### 9.前角

A	45°
D	60°
E	75°
F	85°
P	90°

### 11.刀刃处理代号

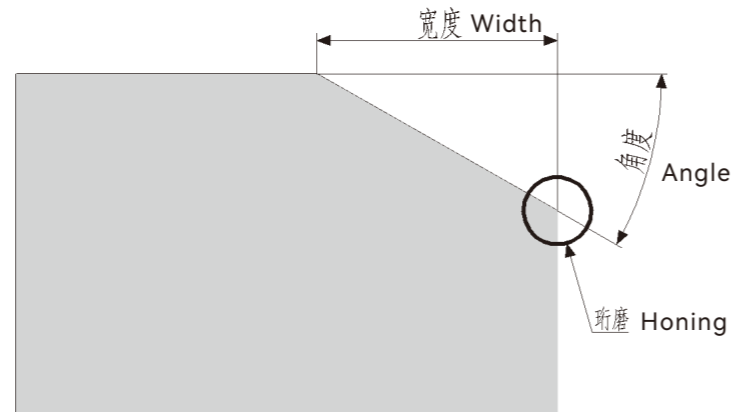
F	Sharp
E	Honed
T	Chamfered
S	Chamfered + Honed

### 12 切削刃方向 Cutting Edge Direction

R	
L	
N	

# 倒角详细指南 Chamfering Detailed Guide

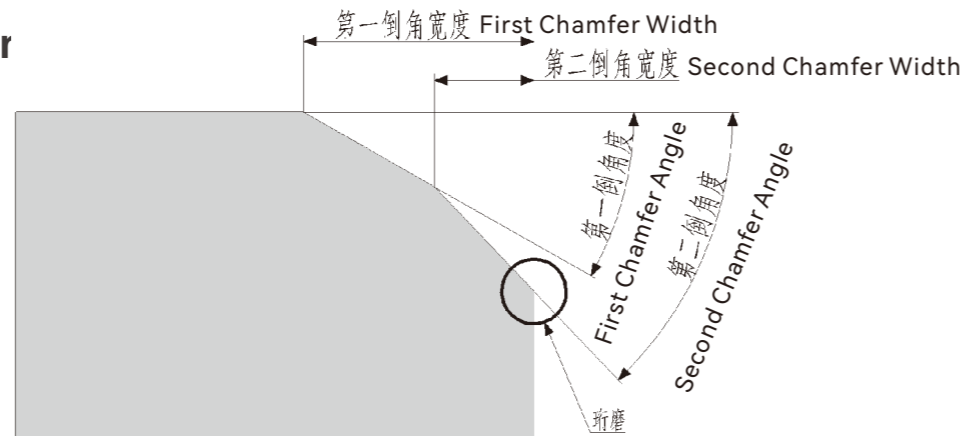
## 1. 单形倒角 Single-Sided Chamfer



SNGN 120408 E 0 4 0

倒角度 (°) Chamfer Angle	倒角宽度(mm) Chamfer Width		珩磨 (μm) Honing
E:20 F:25 G:30	01:0.05 02:0.10 03:0.15 04:0.20	10:0.05 20:1.00 40:2.00	0:无珩磨 Unhoned 1:10 2:20 3:30

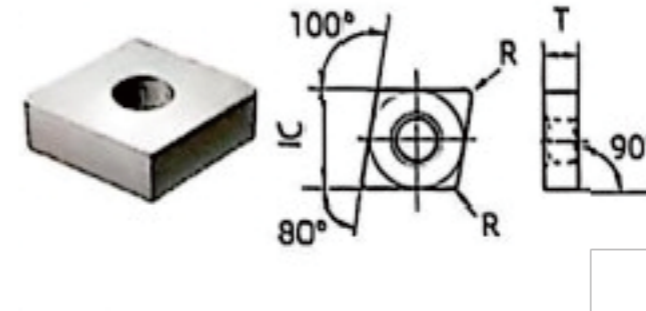
## 1. 双形倒角 Double-Sided Char



SNGN 190716 X 5 4 2

第一倒角度 (°) First Chamfer Angle	第一倒角宽度(mm) First Chamfer Width		第二倒角宽度(mm)X角度 Second Chamfer Width (mm) × Angle		珩磨 (μm) Honing
W:10 x:15	3:1.00 4:1.20 5:1.50 6:2.00	A:0.75 B:1.25 D:2.30	3:0.20×25 4:0.10×30 5:0.20×30	A:0.15×30 B:0.45×25	0:无珩磨 Unhoned 1:10 2:20 3:30 5:50

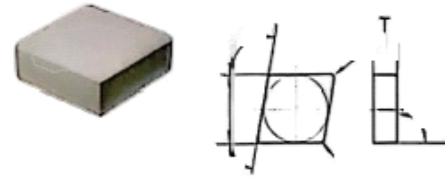
# CNGA



IOS/ANSI	IC	T
CNGA1204/CNGA43	12.7/1/2"	4.76/3/16"
CNGA 1606/CNGA 54	15.875/5/8"	6.35/1/4"
CNGA 1906/CNGA64	19.05/3/4"	6.35/1/4"

ISO	ANSI	R Metric/Inch	BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
CNGA 120404 E010	CNGA 431 T0220	0.4/.016"	●					
CNGA 120408 E010	CNGA 432 T0220	0.8/.031"	●					
CNGA 120408 E021	CNGA 432 T0420		●					
CNGA 120408 F041	CNGA 432 T0825		●					
CNGA 120408 E042	CNGA 432 T0820E1		●					
CNGA 120412 E010	CNGA 433 T0220	1.2/.047"	●					
CNGA 120412 E021	CNGA 433 T0420		●					
CNGA 120412 F040	CNGA 433 T0825		●					
CNGA 120412 E040	CNGA 433 T0820E1	1.6/.063"	●					
CNGA 120416 E010	CNGA 434 T0220		●					
CNGA 120416 E021	CNGA 434 T0420		●					
CNGA 120416 F040	CNGA 434 T0825	1.2/.047"	●					
CNGA 160612 E010	CNGA 543 T0220		●					
CNGA 160612 F041	CNGA 543 T0825E1	1.6/.063"	●					
CNGA 160616 E010	CNGA 544 T0220		●					
CNGA 190612 E010	CNGA 643 T0220	1.2/.047"	●					
CNGA 190612 E030	CNGA 643 T0620		●					
CNGA 190612 F041	CNGA 643 T0825E1		●					
CNGA 190616 E010	CNGA 644 T0220	1.6/.063"	●					

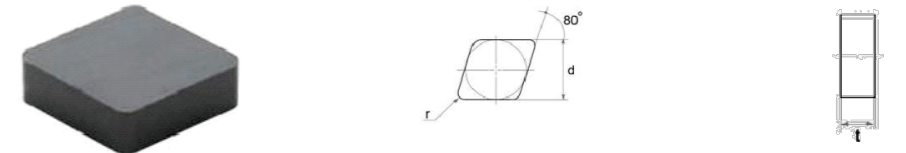
# CNGN



IOS/ANSI	IC	T
CNGN1204/CNGA 43	12.7/1/2"	4.76/3/16"
CNGN 1207/CNGA45	12.7/1/2"	7.94/5/16"
CNGN 1906/CNGA64	19.05/3/4"	6.35/1/4"

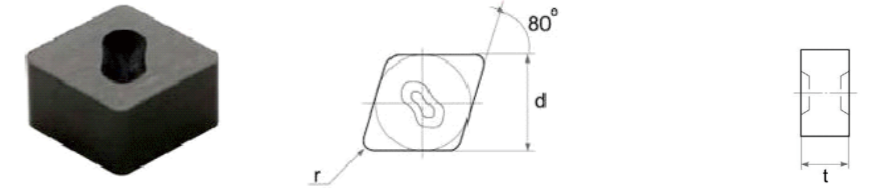
ISO	ANSI	R Metric/Inch	BAT10	BAT30	BSN30	BSN40	BSA80	BSA90
CNGN 120404 E010	CNGN 431 T0220	0.4/.016"	●	●				
CNGN 120408 E010	CNGN 432 T0220	0.8/.031"	●	●				
CNGN 120408 F020	CNGN 432 T0425		●	●				
CNGN 120408 F041	CNGN 432 T0825		●	●				
CNGN 120408 E043	CNGN 432 T0820E2		●	●				
CNGN 120412 E010	CNGN 433 T0220	1.2/.047"	●	●				
CNGN 120412 F020	CNGN 433 T0425		●	●				
CNGN 120412 F041	CNGN 433 T0825		●	●				
CNGN 120412 E043	CNGN 433 T0820E2		●	●				
CNGN 120416 E010	CNGN 434 T0220	1.6/.063"	●	●				
CNGN 120476 F020	CNGN 434 T0425		●	●				
CNGN 120416 F041	CNGN 434 T0825		●	●				
CNGN 120416 E043	CNGN 434 T0820E2		●	●				
CNGN 120708 E010	CNGN 452 T0220	0.8/.031"	●	●				
CNGN 120712 E010	CNGN 453 T0220	1.2/.047"	●	●				
CNGN 120716 E010	CNGN 454 T0220	1.6/.063"	●	●				
CNGN 190612 E010	CNGN 643 T0220	1.2/.047"	●	●				
CNGN 190616 E010	CNGA 643 T0825E1	1.6/.063"	●	●				
CNGA 190612 F041	CNGN 654 T0220		●	●				

# CNMN



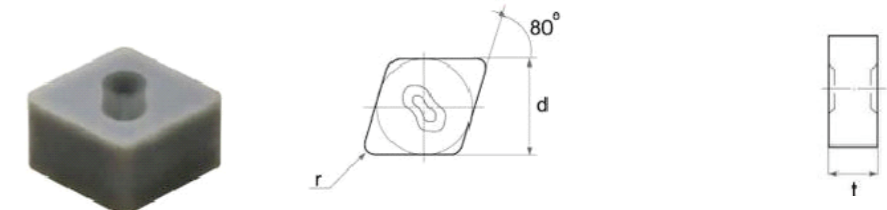
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
CNMN 120412	CNMN 433	12.70	4.76	1.2			●		●	
CNMN 120416	CNMN 434	12.70	4.76	1.6			●		●	

# CNVX



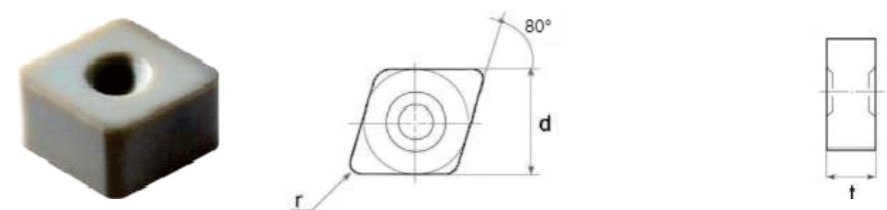
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
CNVX 120412	CNVX 433	12.70	4.76	1.2						
CNVX 120416	CNVX 434	12.70	4.76	1.6						
CNVX 120708	CNVX 452	12.70	7.94	0.8	●		●			
CNVX 120712	CNVX 453	12.70	7.94	1.2	●	●	●	●	●	
CNVX 120716	CNVX 454	12.70	7.94	1.6		●	●	●	●	

# CNMX



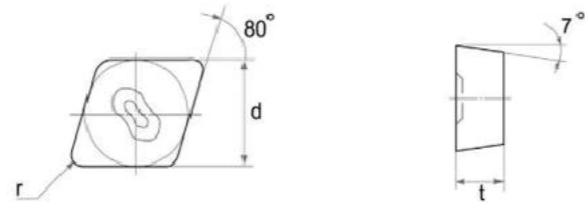
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
CNMX 120712	CNMX 453	12.70	7.94	1.2				●		
CNMX 120716	CNMX 454	12.70	7.94	1.6				●	●	

# CNMX..RD



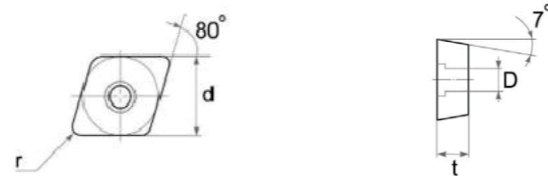
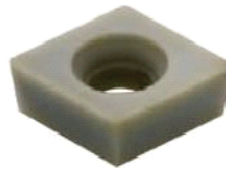
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
CNMX120716RD	CNMX 454RD	12.70	7.94	1.6			●			

# CCGX



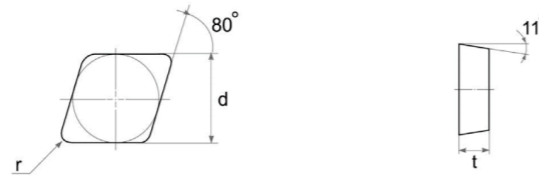
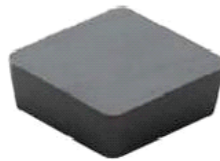
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
CCGX 120608	CCGX 442	12.70	6.35	0.8						
CCGX 120612	CCGX 443	12.70	6.35	1.2			●	●		
CCGX 120616	CCGX 444	12.70	6.35	1.6						

# CCGW



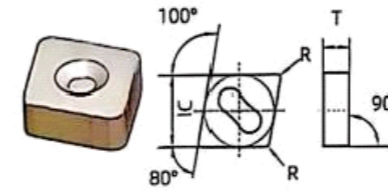
牌号	尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	ISO	d	t	r						
CCGW 09T304	9.52	3.97	0.4	4.40			●			
CCGW 09T308	9.52	3.97	0.8	4.40			●			
CCGW 09T312	9.52	3.97	1.2	4.40			●			
CCGW 120408	12.70	4.76	0.8	5.50						
CCGW 120412	12.70	4.76	1.2	5.50						

# CPGN



牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN40	BSA80	BSA90
ISO	ASA	d	t	r						
CPGN 090304	CPGN 321	9.52	3.18	0.4						
CPGN 090308	CPGN 322	9.52	3.18	0.8						
CPGN 120408	CPGN 432	12.70	4.76	0.8	●					
CPGN 120412	CPGN 433	12.70	4.76	1.2						
CPGN 120416	CPGN 434	12.70	4.76	1.6						

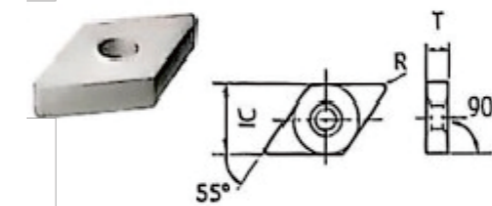
# CNGX



IOS/ANSI	IC	T
CNGX1204/CNGX 43	12.7/1/2"	4.76/3/16"
CNGX1207/CNGX 45	12.7/1/2"	7.94/5/16"

ISO	ANSI	H Metric/Inch	BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
CNGX 120408 E043	CNGX 432 T0820 E2	0.8/.031"					●	
CNGX 120412 E043	CNGX 433 T0820 E2	1.2/.047"					●	
CNGX 120416 E043	CNGX 434 T0820 E2	1.6/.063"					●	
CNGX 120708 F041	CNGX 452 T0825	0.8/.031"					●	
CNGX 120712 F041	CNGX 453 T0825	1.2/.047"					●	
CNGX 120716 F041	CNGX 454 T0825	1.6/.063"					●	

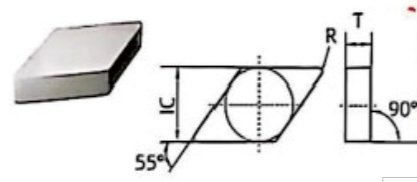
# DNGA



IOS/ANSI	IC	T
DNGA1504/DNGA 43	12.7/1/2"	4.76/3/16"

ISO	ANSI	R Metric/Inch	BAT10	BAT30	BSN30	BSN40	BSA80	BSA90
DNGA 150404 E010	DNGA 431 T0220	0.41/.016"	●	●				
DNGA 750408 E010	DNGA 432 T0220	0.8/.031"	●	●				
DNGA 150408 F020	DNGA 432 T0425		●	●				
DNGA 150408 F023	DNGA 432 T0425E2		●	●				
DNGA 150412 E010	DNGA 433 T0220	1.21/.047"	●	●				
DNGA 150412 F020	DNGA 433 T0425		●	●				
DNGA 150412 F041	DNGA 433 T0825		●	●				
DNGA 150476 E010	DNGA 434 T0220	1.6/.063"	●	●				
DNGA 150416 F020	DNGA 434 T0425		●	●				
DNGA 150416 E043	DNGA 434 T0820E2		●	●				

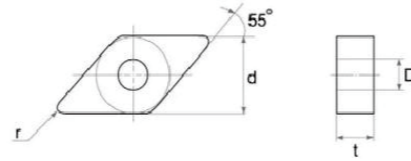
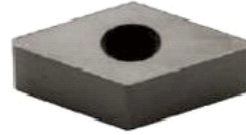
# DNGN



IOS/ANSI	IC	T
DNGN 1504/DNGN43	12.7/1/2"	4.76/3/16"

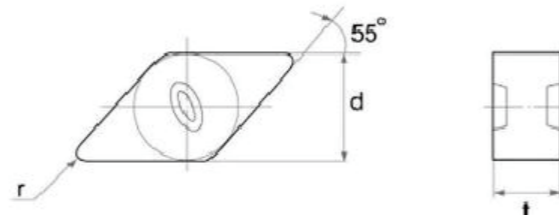
ISO	ANSI	R Metric/Inch	尺寸(mm)						
			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90	
DNGN 150408 E010	DNGN 432 T0220	0.8/031"	●						
DNGN 150408 F020	DNGN 432 T0425		●						
DNGN 150408 E043	DNGN 432 T0820E2		●						
DNGN 150412 E010	DNGN 433 T0220	1.21/047"	●						
DNGN 150412 F020	DNGN 433 T0425		●						
DNGN 150412 E043	DNGN 433 T0820E2		●						
DNGN 150416 E010	DNGN 434 T0220	1.61/063"	●						
DNGN 150416 F020	DNGN 434 T0425		●						
DNGN 150416 E043	DNGN 434 T0820E2		●						

# DNMA



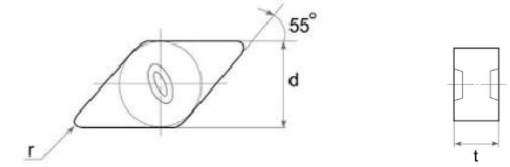
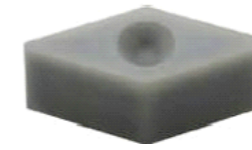
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r	D						
DNMA 150612	DNMA 443	1270	6.35	1.2	5.16			●			
DNMA 150616	DNMA 444	1270	6.35	1.6	5.16						

# DNGX



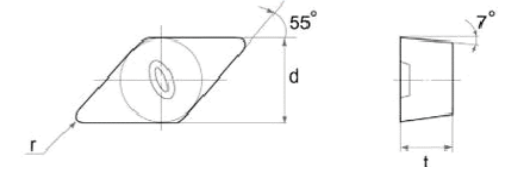
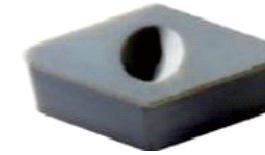
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
DNGX 120708	DNGX 352	10.00	7.94	0.8						
DNGX 120712	DNGX 353	10.00	7.94	1.2			●	●	●	
DNGX 120716	DNGX 354	10.00	7.94	1.6			●	●		
DNGX 150708	DNGX 452	12.70	7.94	0.8						
DNGX 150712	DNGX 453	12.70	7.94	1.2			●			
DNGX 150716	DNGX 454	12.70	7.94	1.6			●	●	●	

# DNMX



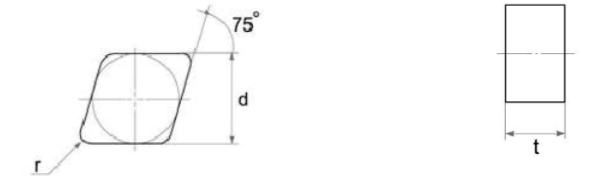
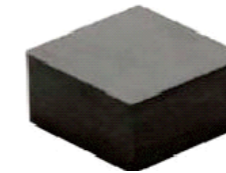
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
DNMX 120708	DNMX 352	10.00	7.94	0.8				●		
DNMX 120712	DNMX 353	10.00	7.94	1.2				●		
DNMX 120716	DNMX 354	10.00	7.94	1.6				●		

# DCGX



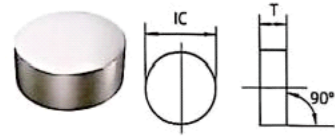
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
DCGX150612	DCGX 443	12.70	6.35	1.2						
DCGX150616	DCGX 444	12.70	6.35	1.6						

# ENGN



牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
ENGN 130404	ENGN 431	12.70	4.76	0.40						
ENGN 130408	ENGN 432	12.70	4.76	0.80		●				
ENGN 130412	ENGN 433	12.70	4.76	1.20		●				
ENGN 130704	ENGN 451	12.70	7.94	0.40	●	●				
ENGN 130708	ENGN 452	12.70	7.94	0.80	●	●	●			
ENGN 130712	ENGN 453	12.70	7.94	1.20	●	●	●			
ENGN 130716	ENGN 454	12.70	7.94	1.60	●	●	●			

# RNGN

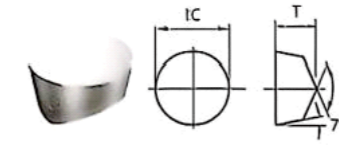


IOS/ANSI	C	T
RNGN 0903/RNGN 32	9.525/3/8"	3.18/1/8"
RNGN 0904/RNGN 33	9.525/3/8"	4.76/3/16"
RNGN1204/RNGN 43	12.7/1/2"	4.76/3/16"
RNGN 1207/RNGN 45	12.7/1/2"	7.94/5/16"

IOS/ANSI	IC	T
RNGN 1507/RNGN 55	15.875/5/8"	7.94/5/16"
RNGN 1907/RNGN 65	19.05/3/4"	7.94/5/16"
RNGN 2507/RNGN 85	25.4/1"	7.94/5/16"
RNGN 2509/RNGN 86	25.4/1"	9.525/3/8"

ISO	ANSI	/	BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
RNGN 090300 E010	RNGN 32 T0220			●				
RNGN 090400 E010	RNGN 33 T0220			●				
RNGN 120400 E010	RNGN 43 T0220			●				
RNGN 120400 F020	RNGN 43 T0425			●				
RNGN 120700 E010	RNGN 45 T0220			●				
RNGN 120700 E032	RNGN 45 T0620E1			●				
RNGN 150700 E010	RNGN 55 T0220			●				
RNGN 190700 E010	RNGN 65 T0220			●				
RNGN 250700 E010	RNGN 85 T0220			●				
RNGN 250900 E010	RNGN 86 T0220			●				

# RCGX



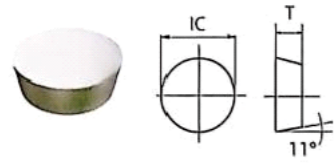
IOS/ANSI	IC	θ
RCGX0604/RCGX 23	6.35/1/4"	120°
RCGX0606/RCGX 24	6.35/1/4"	120°
RCGX 0907/RCGX 35	9.525/3/8"	120°
RCGX 1207/RCGX45	12.7/1/2"	120°

IOS/ANSI	IC	θ
RCGX102/RCGX 102	6.35/1/4"	120°
RCGX 103/RCGX 103	9.525/3/8"	120°
RCGX 104/RCGX 104	12.7/1/2"	120°
RCGX105/RCGX 105	15.87/5/8"	120°

IOS/ANSI	IC	θ
RCGX 106/RCGX 106	19.05/3/4"	120°
RCGX 108/RCGX 108	25.4/1"	140°

ISO	ANSI	T Metric/Inch	BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
RCGX 060400 E010	RCGX 23 T0220	4.76/3/16"	●	●				
RCGX 060400 E012	RCGX 23 T0220E1		●	●				
RCGX 060600 E012	RCGX 24 T0220E1	6.35/1/4"	●	●				
RCGX 090700 E010	RCGX 35 T0220	7.94/5/16"	●	●				
RCGX 090700 E012	RCGX 35 T0220E1		●	●				
RCGX 090700 F020	RCGX 35 T0425		●	●				
RCGX 090700 F022	RCGX 35 T0425E1		●	●				
RCGX 090700 F041	RCGX 35 T0825		●	●				
RCGX 090700 F042	RCGX 35 T0825E1		●	●				
RCGX 120700 E010	RCGX 45 T0220		●	●				
RCGX 120700 E012	RCGX 45 T0220E1		●	●				
RCGX 120700 F020	RCGX 45 T0425		●	●				
RCGX 120700 F022	RCGX 45 T0425E1		●	●				
RCGX 120700 F041	RCGX 45 T0825		●					
RCGX 120700 F042	RCGX 45 T0825E1	●	●					
RCGX 102 HD1215E1	RCGX 102 HD04815E1	7.85/0.309"	●	●				
RCGX 103 HD1215E1	RCGX 102 HD04815E1	●	●					
RCGX 104 HD1515E1	RCGX 104 HD06015E1	7.92/0.312"	●	●				
RCGX 105 HD2015E1	RCGX 105 HD08015E1	9.86/0.388"	●	●				
RCGX 106 HD2015E1	RCGX 106 HD08015E1		●	●				
RCGX 108 HD1515E1	RCGX 108 HD06015E1	11.71/0.461"	●	●				

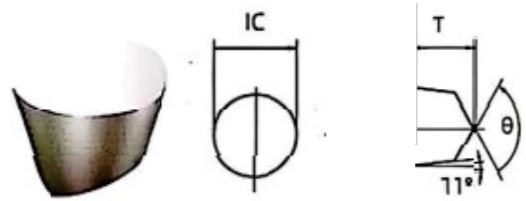
# RPGN



IOS/ANSI	IC	T
RPGN 0602/RPGN 215	6.35/1/4"	2.38/3/32"
RPGN 0603/RPGN 22	6.35/1/4"	3.18/1/8"
RPGN 0903/RPGN 32	9.525/3/8"	3.18/1/8"
RPGN 1204/RPGN 43	12.7/1/2"	4.76/3/16"

ISO	ANSI	/	BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
RPGN 060200 E010	RPGN 215 T0220			●				
RPGN 060200 E021	RPGN 215 T0420			●				
RPGN 060300 E010	RPGN 22 T0220			●				
RPGN 060300 E021	RPGN 22 T0420			●				
DNGA 150412 E010	RPGN 32 T0220			●				
RPGN 090300 E010	DNGA 433 T0425			●				
RPGN 090300 E021	RPGN 32 T0420			●				
RPGN 120400 E010	RPGN 43 T0220			●				
RPGN 120400 E021	RPGN 43 T0420			●				

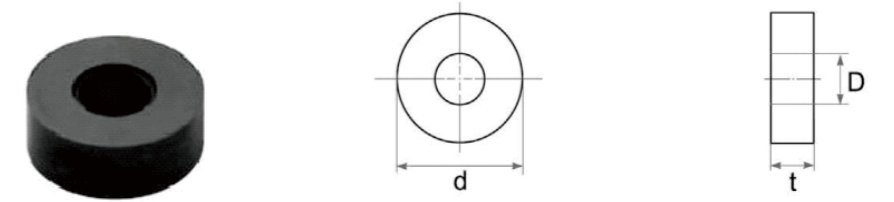
# RPGX



IOS/ANSI	IC	θ
RPGX0604/RPGX23	6.35/1/4"	120°
RPGX0907/RPGX 35	9.525/3/8"	120°
RPGX1207/RPGX 45	12.7/1/2"	120°

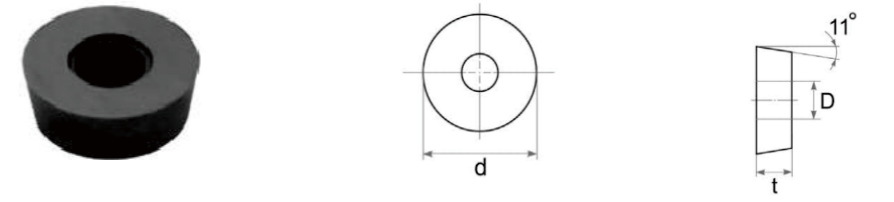
ISO	ANSI	T Metric/Inch	BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
RPGX 060400 E010	RPGX 23 T0220	4.76/187"	●	●				
RPGX 060400 E042	RPGX 23 T0820E1		●	●				
RPGX 090700 E010	RPGX 35 T0220	7.94/31"	●	●				
RPGX 090700 E021	RPGX 35 T0420		●	●				
RPGX 090700 E042	RPGX 35 T0820E1		●	●				
RPGX 120700 E010	RPGX 45 T0220		●	●				
RPGX 120700 E021	RPGX 45 T0420		●	●				

# RNGA



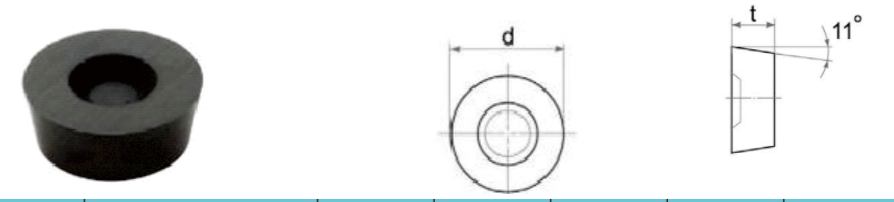
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	D						
RNGA 120400	RNGA 430	12.70	4.76	5.16	●	●				
RNGA 120700	RNGA 450	12.70	7.94	5.16	●	●				

# RPGA



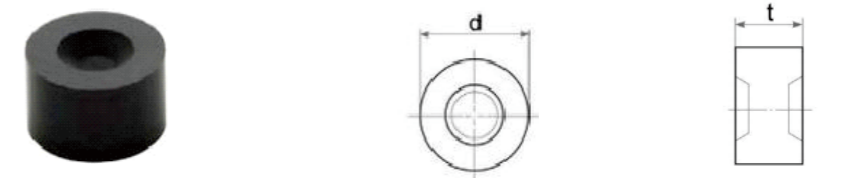
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	D						
RNGA 120400	RNGA 430	12.70	4.76	5.16	●					
RNGA120700	RNGA 450	12.70	7.94	5.16	●					

# RPGX..DP



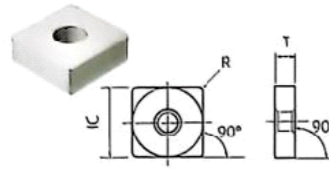
牌号		尺寸(mm)		BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t						
RPGX 1204 DP	RPGX 43DP	12.70	4.76					●	
RPGX 1207 DP	RPGX 45DP	12.70	7.94					●	

# RPGX..DP



牌号		尺寸(mm)		BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t						
RNGX 1207 DP	RNGX 45 DP	12.70	7.94					●	

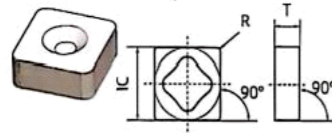
# SNGA



IOS/ANSI	IC	T
SNGA1204/SNGA 43	12.7/1/2"	4.96/3/16"
SNGA 1506/SNGA 54	15.875/5/8"	6.35/1/4"
SNGA 1906/SNGA64	19.05/3/4"	6.35/1/4"

ISO	ANSI	R Metric/Inch	BAT10	BAT30	BSN30	BSN40	BSA80	BSA90
SNGA 120408 E010	SNGA 432 T0220	0.8/031"	●	●				
SNGA 120408 E021	SNGA432 T0420		●	●				
SNGA 120416 E010	SNGA 434 T0220	1.6/063"	●	●				
SNGA 120416 F041	SNGA 434 T0825		●	●				
SNGA 150612 E010	SNGA 543 T0220	1.21.047"	●	●				
SNGA150612 F010	SNGA 543 T0225		●	●				
SNGA 150616 E010	SNGA 544 T0220	1.6/063"	●	●				
SNGA 150516 E040	SNGA 544 T0820		●	●				
SNGA 190676 F041	SNGA 644 T0825		●	●				

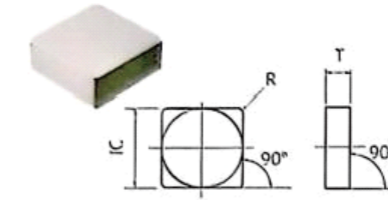
# SNGX



IOS/ANSI	IC	T
SNGX1204/SNGX43	12.7/1/2"	4.76/3/16"
SNGX1207/SNGX 45	12.7/1/2"	7.94/5/16"

ISO	ANSI	R Metric/Inch	BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
SNGX 120408 E043	SNGX 432 T0820E2	0.8/031"					●	
SNGX 120412 E043	SNGX433 T0820E2	1.2/047"					●	
SNGX 120416 E043	SNGX 434 T0820E2	1.6/063"					●	
SNGX 120708 F041	SNGX 452 T0825	0.8/031"					●	
SNGX 120712 F041	SNGX 453 T0825	1.2/047"					●	
SNGX 120716 F041	SNGX 454 T0825	1.6/063"					●	

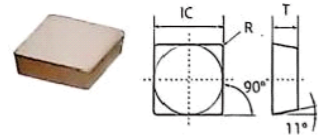
# SNGN



IOS/ANSI	IC	T
SNGA1204/SNGA 43	12.7/1/2"	4.96/3/16"
SNGA 1506/SNGA 54	15.875/5/8"	6.35/1/4"
SNGA 1906/SNGA64	19.05/3/4"	6.35/1/4"

ISO	ANSI	R Metric/Inch	BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
SNGN 120408 E010	SNGN 432 T0220	0.8/031"	●	●				
SNGN 120408 F020	SNGN 432 T0425		●	●				
SNGN 120408 F041	SNGN 432 T0825		●	●				
SNGN 120408 E043	SNGN 432 T0820E2		●	●				
SNGN 120412 E010	SNGN 433 T0220	1.2/047"	●	●				
SNGN 120472 F020	SNGN 433 T0425		●	●				
SNGN 120412 F041	SNGN 433 T0825		●	●				
SNGN 120412 E043	SNGN 433 T0820E2		●	●				
SNGN 120416 E010	SNGN 434 T0220	1.6/063"	●	●				
SNGN 120416 F020	SNGN 434 T0420		●	●				
SNGN 120476 F041	SNGN 434 T0825		●	●				
SNGN 120476 E043	SNGN 434 T0820E2		●	●				
SNGN 12070B E010	SNGN 452 T0220	0.8/031"	●	●				
SNGN 120712 E010	SNGN 453 T0220	1.2/047"	●	●				
SNGN 120716 E010	SNGN 454 T0220	1.6/063"	●	●				
SNGN 190612 E010	SNGN 643 T0220	1.2/047"	●	●				
SNGN 190616 E010	SNGN 644 T0220	1.6/063"	●	●				

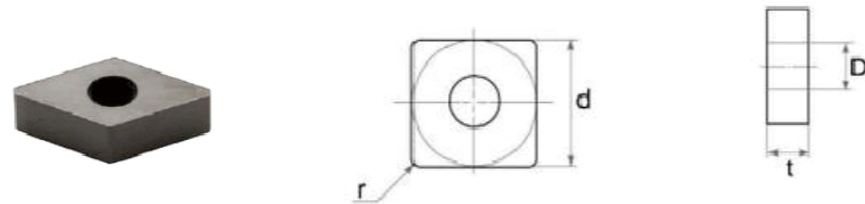
# SPGN



IOS/ANSI	IC	T
SPGN 0903/SPGN 32	9.525/3/8"	3.18/1/8"
SPGN 1204/SPGN 43	12.7/1/2"	4.76/3/16"
SPGN 1904/SPGN63	19.05/3/4"	4.76/3/16"

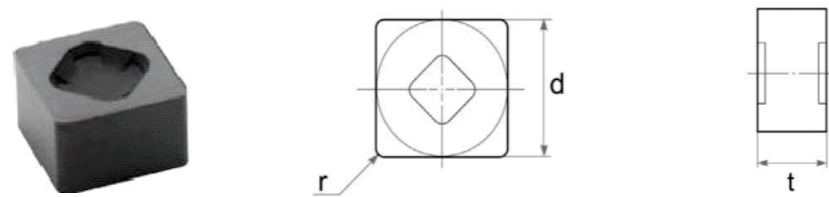
ISO	ANSI	R Metric/Inch	尺寸(mm)						
			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90	
SPGN 090308 E010	SPGN 322 T0220	0.8/.031"						●	
SPGN 120408 E010	SPGN 432 T0220	1.2/.047"						●	
SPGN 120412 E010	SPGN 433 T0220	1.6/.063"						●	
SPGN 120476 E010	SPGN 434 T0220	0.8/.031"						●	
SPGN 190412 E010	SPGN 633 T0220	1.2/.047"						●	
SPGN 190416 E010	SPGN 634 T0220	1.6/.063"						●	

# SNMA



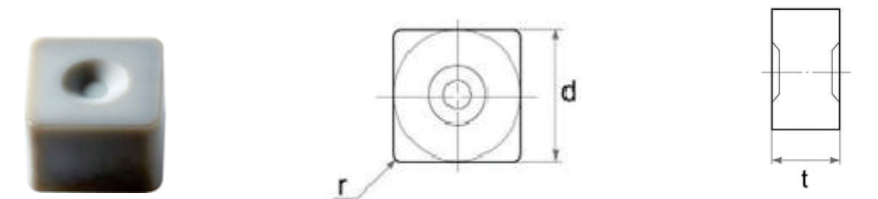
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r	D						
SNMA 120408	SNMA 432	12.70	4.76	0.8	5.16						
SNMA 120412	SNMA 433	12.70	4.76	1.2	5.16			●			
SNMA 120416	SNMA 434	12.7	4.76	1.6	5.16			●			
SNMA 150616	SNMA 544	15.87	6.35	1.6	6.35			●			

# SNMX



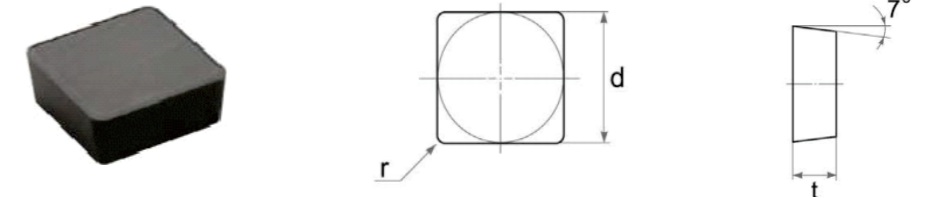
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r							
SNMX120712	SNMX 453	12.70	7.94	1.2				●	●	●	●
SNMX120716	SNMX 454	12.70	7.94	1.6							

# SNMX..RD



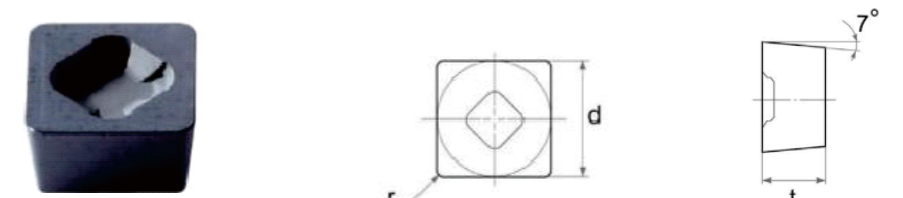
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
SNMX 120716 RD	SNMX 454 RD	12.70	7.94	1.6			●			

# SCGN



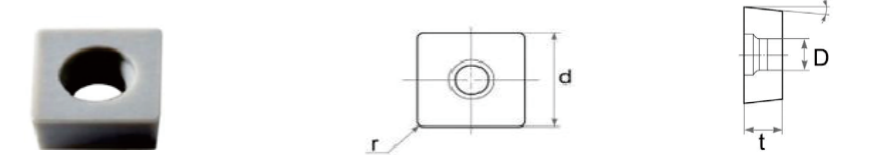
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
SCGN 090412	SCGN 333	9.52	4.76	1.2	●					
SCGN 090416	SCGN 334	9.52	4.76	1.6	●					
SCGN 120404	SCGN 431	12.70	4.76	0.4		●				
SCGN 120408	SCGN 432	12.70	4.76	0.8	●	●				
SCGN 120412	SCGN 433	12.70	4.76	1.2			●		●	
SCGN 120416	SCGN 434	12.70	4.76	1.6	●	●				

# SCGX



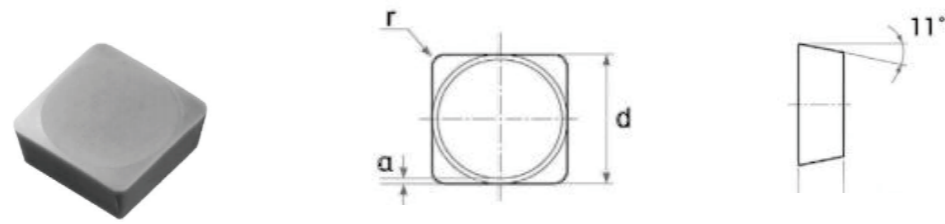
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
SCGX 120616	SCGX 444	12.70	6.35	1.6			●		●	

# SCGW



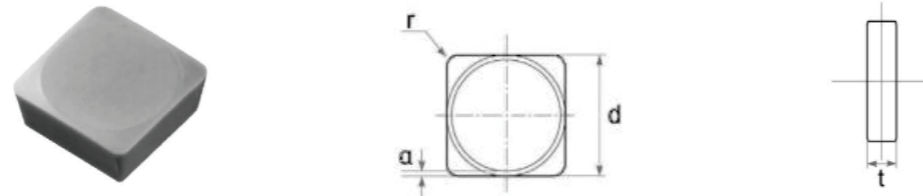
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	a	D						
SCGW 09T304		9.52	3.97	0.4	4.40				●		
SCGW 09T308		9.52	3.97	0.8	4.40				●		
SCGW 120408		12.70	4.76	0.8	5.50				●		

# SPGN..CR



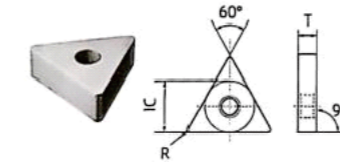
牌号		尺寸(mm)					BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r	D	CR						
SNHN 120412 CR05	SNHN 433 CR05	12.70	4.76	1.20	0.492	5°	●	●	●	●		

# SNHN..CR



牌号		尺寸(mm)					BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r	D	CR						
SNHN 090412 CR10	SNHN 333 CR10	9.52	4.76	1.20	0.50	10°	●		●	●		
SNHN 120312 CR10	SNHN 423 CR10	12.70	3.18	1.20	0.50	10°						
SNHN 120312 CR15	SNHN 423 CR10	12.70	3.18	1.20	0.50	15°						
SNHN 120412 CR10	SNHN 433 CR10	12.70	4.76	1.20	0.50	10°						
SNHN 120412 CR15	SNHN 433 CR10	12.70	4.76	1.20	0.50	15°						

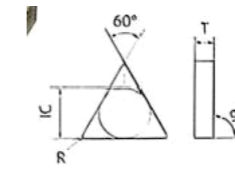
# TNGA



OS/ANSI	IC	T
TNGA 1604/TNGA 33	9.525/3/8"	4.76/3/16"
TNGA 2204/TNGA43	12.7/1/2"	4.76/3/16"

ISO	ANSI	R Metric/Inch	BAT10	BAT30	BSN30	BSN40	BSA80	BSA90
TNGA 160408 E010	TNGA 332 T0220	0.8/.031"	●	●				
TNGA 220408 E010	TNGA 432 T0220		●	●				
TNGA 220408 F020	TNGA 432 T0425		●	●				

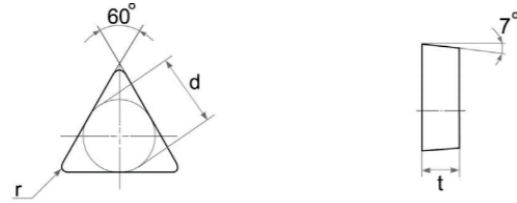
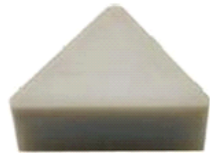
# TNGN



IOS/ANSI	IC	T
TNGN 1604/TNGN 33	9.525/3/8"	4.76/3/16"
TNGN 2204/TNGN 43	12.7/1/2"	4.76/3/16"
TNGN 2207/TNGN 45	12.7/1/2"	7.94/5/16"

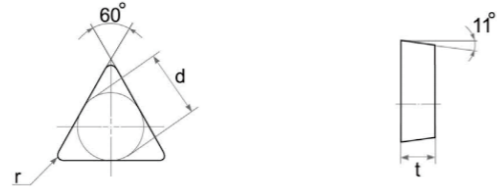
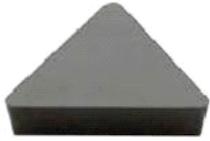
ISO	ANSI	R Metric/Inch	BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
TNGN 160408 E010	TNGN 332 T0220	0.8/.031"					●	
TNGN 220408 E101	TNGN 432 T0220						●	
TNGN 220408 F043	TNGN 432 T0825E2						●	
TNGN 220412 E010	TNGN 433 T0220	1.2/.047"					●	
TNGN 220412 F043	TNGN 433 T0825E2						●	
TNGN 220476 E010	TNGN 434 T0220	1.6/.063"					●	
TNGN 220416 F043	TNGN 434 T0820E2						●	
TNGN 220712 E010	TNGN 453 T0220	1.2/.047"					●	
TNGN 220716 E010	TNGN 454 T0220	1.6/.063"					●	

# TCUN



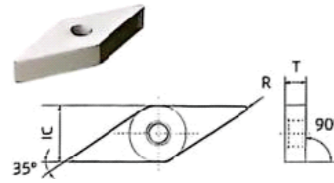
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
TCUN 160408	TCUN 332	9.52	4.76	0.8		●	●			
TCUN 160412	TCUN 333	9.52	4.76	1.2		●	●			
TCUN 160416	TCUN 334	9.52	4.76	1.6		●	●			

# TPUN



牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
TPUN 110308	TPUN 222	6.35	3.18	0.8				●		
TPUN 110312	TPUN 223	6.35	3.18	1.2				●		

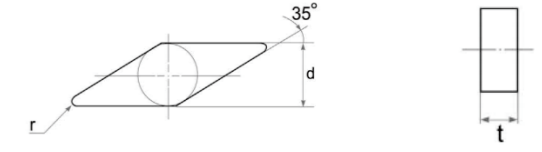
# VNGA



	I0S/ANSI	IC	T
VNGA 1604/VNGA 33		9.525/3/8"	4.76/3/16"
VNGA 2204/VNGA 43		12.7/1/2"	4.76/3/16"

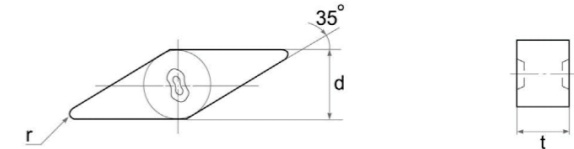
ISO	ANSI	R Metric/Inch	BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
VNGA 160404 E010	VNGA 331 T0220	0.4/.016"	●	●				
VNGA 160408 E010	VNGA 332 T0220	0.8/.037"	●	●				
VNGA 160412 E010	VNGA 333 T0220	1.2/.047"	●	●				
VNGA 220408 E010	VNGA 432 T0220	0.8/.031"	●	●				
VNGA 220412 E010	VNGA 433 T0220	1.2/.047"	●	●				

# VNGN



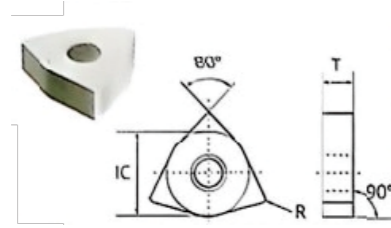
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
VNGN 160404	VNGN 331	9.52	4.76	0.4		●				
VNGN 160408	VNGN 332	9.52	4.76	0.8		●				
VNGN 160704	VNGN 351	9.52	7.94	0.4		●				
VNGN 160708	VNGN 352	9.52	7.94	0.8		●				
VNGN 160712	VNGN 353	9.52	7.94	1.2						
VNGN 160716	VNGN 354	9.52	7.94	1.6						

# VNGX



牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
VNGX 160708	VNGX 352	9.52	7.94	0.8		●				
VNGX 160712	VNGX 353	9.52	7.94	1.2		●				
VNGX 160716	VNGX 354	9.52	7.94	1.6						

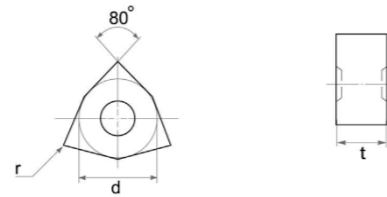
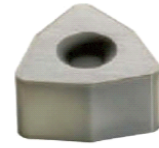
# WNGA



IOS/ANSI	IC	T
WNGA 0604/WANGA 33	9.525/3/8"	4.76/3/16"
WNGA 0804/WANGA 43	12.7/1/2"	4.76/3/16"

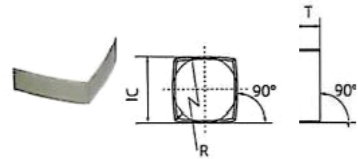
ISO	ANSI	R Metric/Inch	BAT10	BAT30	BSN30	BSN40	BSA80	BSA90
WNGA 060408 E010	WNGA332 T0220	0.8/031"	●	●				
WNGA 060412 E010	WNGA 333 T0220	1.21/047"	●	●				
WNGA 080404 E010	WNGA 431 T0220	1.6/063"	●	●				
WNGA 080408 E010	WNGA 432 T0220	0.8/031"	●	●				
WNGA 080412 E010	WNGA 433 T0220	1.2/047"	●	●				
WNGA 080416 E010	WNGA 434 T0220	1.6/063"	●	●				

# WNGX



牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
WNGX080708	WNGX 452	12.70	7.94	0.8						
WNGX080712	WNGX 453	12.70	7.94	1.2			●	●		
WNGX 080716	WNGX 454	12.70	7.94	1.6						

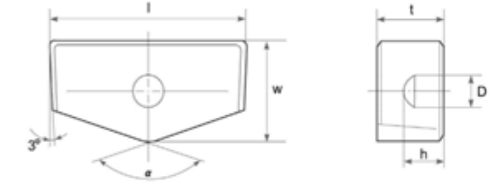
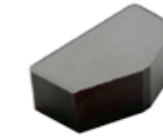
# ZT



IOS/ANSI	IC	T
ZT-1130/ZT-1130	38.1/3/2"	12.7/1/2"

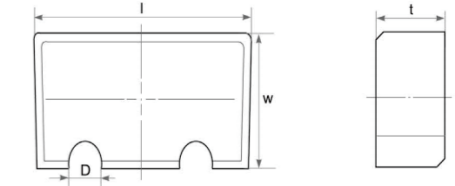
ISO	ANSI	R Metric/Inch	BAT10	BAT30	BSN40	BSN50	BSA80	BSA90
ZT-1130	ZT-1130	114.3/4.5"						

# F-Series



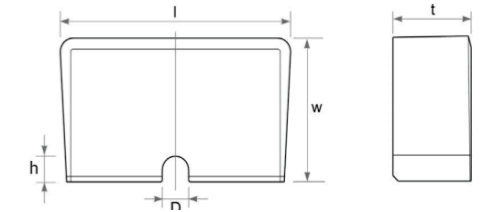
牌号	尺寸(mm)						BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	l	w	t	D	h	α						
F 13941	32.00	19.05	12.00	6.50	6.00	120°	●	●	●			
F 10537	44.50	25.40	4.20	6.50	7.00	120°	●	●	●			

# F-Series



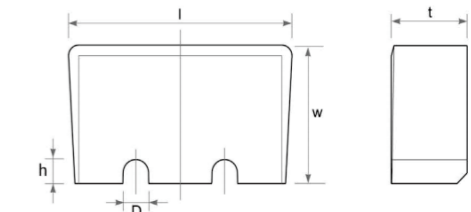
牌号	尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	l	w	t	D						
F 10537 V	44.00	26.00	15.00	5.00	●	●				

# F-Series



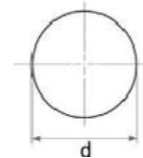
牌号	尺寸(mm)					BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	l	w	t	D	h						
F 10537 S	44.55	26.00	15.00	5.10	4.60	●	●				

# F-Series



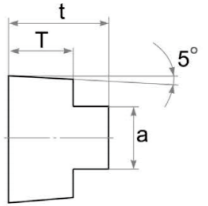
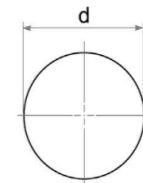
牌号	尺寸(mm)					BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	l	w	t	D	h						
F 10537 VW	44.55	26.00	15.00	5.10	4.60	●	●				

# RBGN



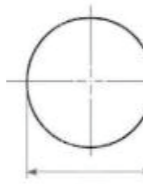
牌号		尺寸(mm)		BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t						
RBGN 060300	RBGN 220	6.35	3.18		●				
RBGN 060400	RBGN 230	6.35	4.76		●				
RBGN 090300	RBGN 320	9.52	3.18	●					
RBGN 090400	RBGN 330	9.52	4.76	●					
RBGN 120400	RBGN 430	12.70	4.76	●	●				
RBGN 120600	RBGN 440	12.70	6.35	●					
RBGN 120700	RBGN 450	12.70	7.94	●	●	●		●	
RBGN 0604M0		6.00	4.76		●				
RBGN 0804M0		8.00	4.76		●				
RBGN 1007M0		10.00	7.94	●					
RBGN 1207M0		12.00	7.94						
RBGN 1607M0		16.00	7.94						

# RBGX



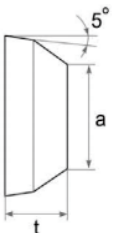
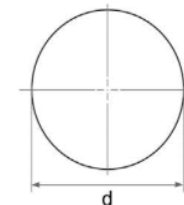
牌号	尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	W	t	a						
RBGX 06T	6.00	5.00	3.00	3.00	●	●				
RBGX 08T	8.00	6.50	4.00	4.00	●	●				
RBGX 10T	10.00	9.00	6.00	6.00	●	●				
RBGX 12T	12.00	9.00	6.00	6.00		●				
RBGX 16T	16.00	13.00	8.00	8.00	●	●				
RBGX 20T	20.00	15.00	10.00	10.00	●	●				
RBGX 26T	26.00	15.00	10.00	14.00	●	●				

# RCGN



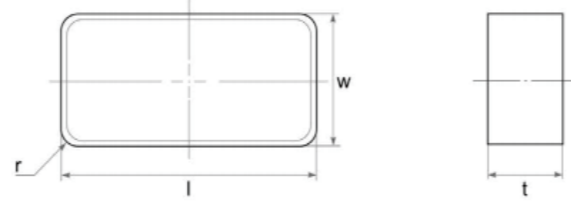
牌号		尺寸(mm)		BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO		d	t						
RCGN 060400		6.35	4.76	●	●			●	
RCGN 060600		6.35	6.35	●	●			●	
RCGN 060700		6.35	7.94	●	●			●	
RCGN 070400		7.94	4.76		●				
RCGN 090700		9.52	7.94	●	●			●	
RCGN 120700		12.70	7.94	●	●			●	
RCGN 151000		15.87	10.00	●	●			●	
RCGN 191000		19.05	10.00	●	●			●	
RCGN 251200		25.40	12.70	●	●			●	

# RXGX



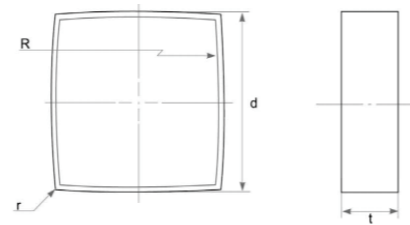
牌号	尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	d	t	a						
RXGX 1207 M0	12.00	7.94	6.90		●				
RXGX 1608 M0	16.00	8.00	9.50		●				
RXGX 2508 M0	25.00	8.00	18.20	●					

# LNJ



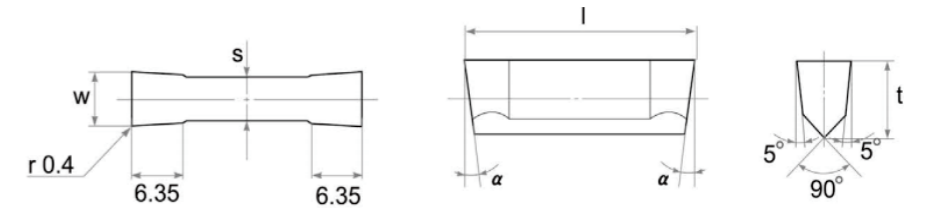
牌号	尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	w	t	r						
LNJ 5464	25.40	15.87	9.52	1.6	●	●				
LNJ 5568	31.75	15.87	9.52	3.2						
LNJ 6588	31.75	19.05	12.70	3.2	●	●	●			
LNJ 6688	38.10	19.05	12.70	3.2	●	●	●		●	
LNJ 6898	48.10	21.05	12.70	3.2						

# SNGN3812R



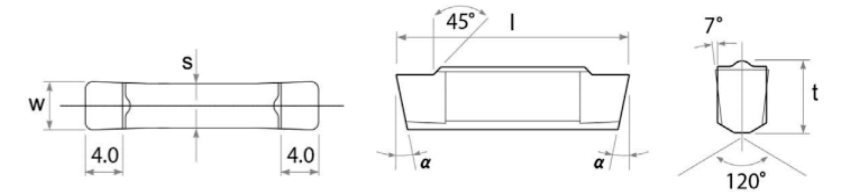
牌号	尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	w	t	r						
SNGN 3812R	38.10	12.70	0.4	114	●	●				

# SYBF



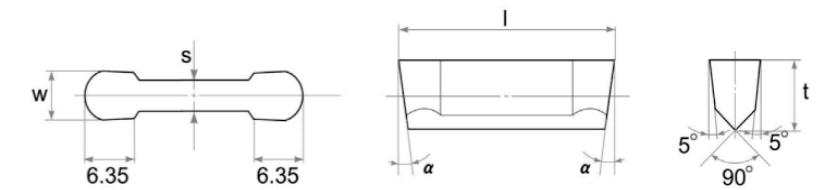
牌号	尺寸(mm)					BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	w	t	s	alpha						
SYBF 3228	28.58	3.18	6.35	2.69	5.0°	●	●				
SYBF 4828	28.58	4.78	6.35	3.66	5.0°	●	●				
SYBF 5528	28.58	5.54	6.35	3.66	5.0°						
SYBF 6428	28.58	6.35	8.56	5.13	7.0°	●	●				
SYBF 7928	28.58	7.93	8.56	5.13	7.0°	●	●				
SYBF 9528	28.58	9.53	8.56	6.99	7.0°						

# SYBF.K



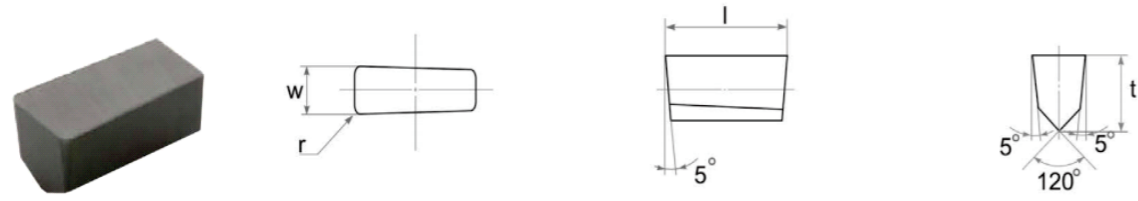
牌号	尺寸(mm)					BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	w	t	s	alpha						
SYBF 5025K	25.00	5.00	6.50	4.60	12°				●		

# SYBR



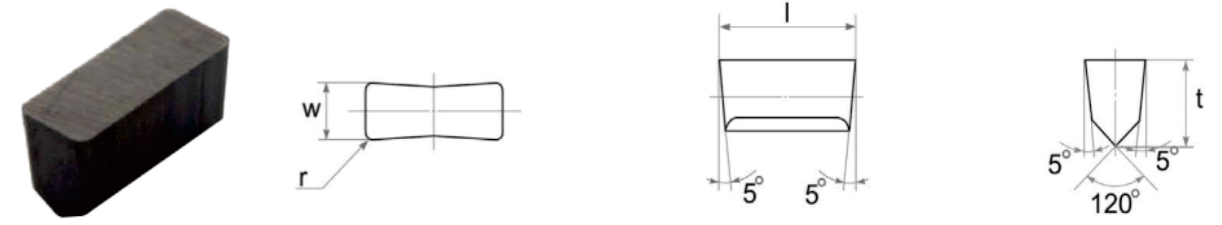
牌号	尺寸(mm)					BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	w	t	s	alpha						
SYBR 3228	28.58	3.18	6.35	2.69	5.0°	●	●				
SYBR 4828	28.58	4.78	6.35	3.66	5.0°	●	●				
SYBR 5528	28.58	5.54	6.35	3.66	5.0°						
SYBR 6428	28.58	6.35	8.56	5.13	7.0°	●	●				
SYBR 7928	28.58	7.93	8.56	5.13	7.0°	●	●				
SYBR 9528	28.58	9.53	8.56	6.99	7.0°						

# SGF



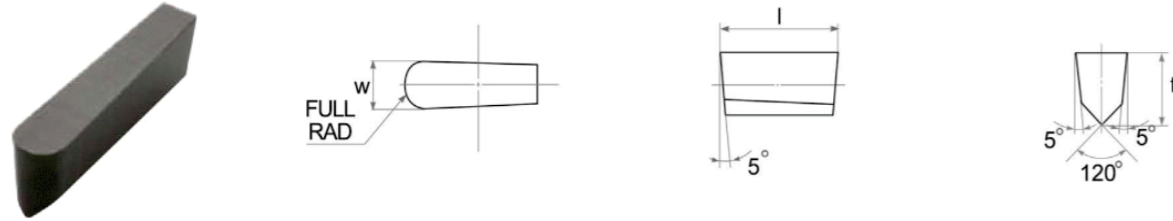
牌号	尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	w	t	r						
SGF 4012	12.00	4.00	5.00	0.50	●	●				
SGF 5012	12.00	5.00	5.00	0.80	●	●				
SGF 6015	15.00	6.00	7.50	0.80	●	●				
SGF 7015	15.00	7.00	7.50	0.80	●	●				
SGF 8015	15.00	8.00	7.50	0.80	●	●				
SGF 1015	15.00	10.00	7.50	0.80	●	●				

# SSF



牌号	尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	w	t	r						
SSF 4012	12.00	4.00	5.00	0.80	●	●				
SSF 5012	12.00	5.00	5.00	0.80	●	●				
SSF 6015	15.00	6.00	7.50	0.80	●	●				
SSF 7015	15.00	7.00	7.50	0.80	●	●				
SSF 8015	15.00	8.00	7.50	0.80	●	●				
SSF 1015	15.00	10.00	7.50	0.80	●	●				

# SGR



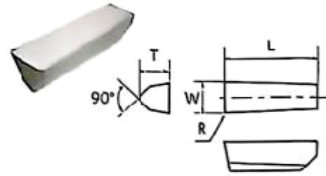
牌号	尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	w	t	r						
SGR 4012	12.00	4.00	5.00		●	●				
SGR 5012	12.00	5.00	5.00		●	●				
SGR 6015	15.00	6.00	7.50		●	●				
SGR 7015	15.00	7.00	7.50		●	●				
SGR 8015	15.00	8.00	7.50		●	●				
SGR 1015	15.00	10.00	7.50		●	●				

# SSR



牌号	尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	w	t	r						
SSR 4012	12.00	4.00	5.00		●	●				
SSR 5012	12.00	5.00	5.00		●	●				
SSR 6015	15.00	6.00	7.50		●	●				
SSR 7015	15.00	7.00	7.50		●	●				
SSR 8015	15.00	8.00	7.50		●	●				
SSR 1015	15.00	10.00	7.50		●	●				

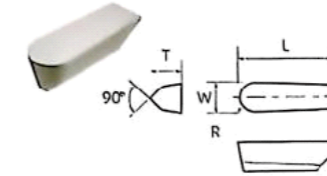
# VGW



IOS/ANSI	T	L
VGW 41/VGW 41	4.75/187"	12.7/500"
VGW 62/VGW 62	6.35/250"	19.05/750"
VGW 83/VGW 83	8.56/337"	25.4/1.00"

ISO	ANSI	R	W	BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
		Metrid Inch							
VGW 4125-1 E004	VGW 4125-1 E02	0.4/016"	3.18/125"					●	
VGW 4725-1 E010	VGW 4125-1 T0220							●	
VGW 4125-2 E004	VGW 4125-2 E02	0.8/031"						●	
VGW 4756-1 E004	VGW 4156-1 E02	0.4/016"	3.96/156"					●	
VGW 4756-1 E010	VGW 4156-1 T0220							●	
VGW 4756-2 E004	VGW 4156-2 E02	0.8/037"						●	
VGW 4187-1 E004	VGW 4187-1 E02	0.4/016"	4.75/187"					●	
VGW 4187-1 E010	VGW 4187-1 T0220							●	
VGW 4187-2 E004	VGW 4187-2 E02	0.8/031"						●	
VGW 6218-1 E004	VGW 6278-1 E02	0.4/016"	5.54/278"					●	
VGW 6218-1 E010	VGW 6218-1 T0220							●	
VGW 6218-2 E004	VGW 6218-2 E02	0.8/031"						●	
VGW 6250-1 E004	VGW 6250-1 E02	0.4/016"	6.35/250"					●	
VGW 6250-1 E010	VGW 6250-1 T0220							●	
VGW 6250-1 E022	VGW 6250-1 T0420E1							●	
VGW 6250-2 E004	VGW 6250-2 E02	0.8/031"						●	
VGW 6250-3 E004	VGW 6250-3 E02	1.2/047"						●	
VGW 6281-4 E004	VGW 6281-4 E02	1.6/063"	7.14/281"					●	
VGW 6281-4 E010	VGW 6281-4 T0220							●	
VGW 8312-2 E004	VGW 8312-2 E02	0.8/031"	7.92/372"					●	
VGW 8312-2 E010	VGW 8312-2 T0220							●	
VGW 8312-4 E004	VGW 8312-4 E02	1.6/063"						●	
VGW 8312-4 E010	VGW 8312-4 T0220							●	
VGW 8375-2 E004	VGW 8375-2 E02	0.8/037"	9.525/375"					●	
VGW 8375-2 E010	VGW 8375-2 T0220							●	
VGW 8375-4 E004	VGW 8375-4 E02	1.6/063"						●	
VGW 8375-4 E010	VGW 8375-4 T0220							●	

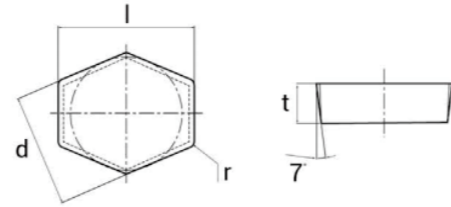
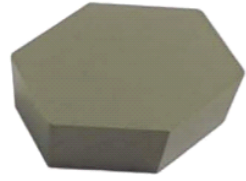
# VGW...R



IOS/ANSI	T	L
VGW 41/VGW 41	4.75/187"	12.7/500"
VGW 62/VGW 62	6.35/250"	19.05/750"
VGW 83/VGW 83	8.56/337"	25.4/1.00"

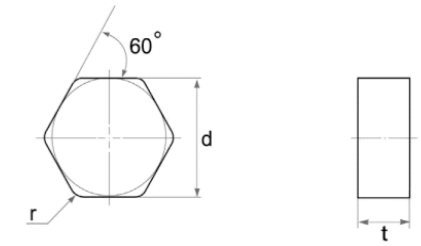
ISO	ANSI	R	W	BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
		Metrid Inch							
VGW 4125-R E004	VGW 4125-R E02	1.59/063"	3.18/125"						
VGW 4725-R E010	VGW 4125-R T0220								
VGW 4756-R E004	VGW 4156-R E02	1.98/078"	3.96/156"						
VGW 4156-R E010	VGW 4756-R T0220								
VGW 4756-R 02020	VGW 4756-R T0820E1								
VGW 4187-R E004	VGW 4187-R E02	2.38/094"	4.75/187"						
VGW 4187-R E010	VGW 4187-R T0220								
VGW 6218-R E004	VGW 6218-R E02	2.77/109"	5.54/218"						
VGW 6278-R E010	VGW 6278-R T0220								
VGW 6250-R E004	VGW 6250-R E02	3.18/125"	6.35/250"						
VGW 6250-R E010	VGW 6250-R T0220								
VGW 6281-R E004	VGW 6281-R E02	3.58/141"	7.14/281"						
VGW 6281-R E010	VGW 6281-R T0220								
VGW 8312-R E004	VGW 8312-R E02	3.96/156"	7.92/312"						
VGW 8312R E010	VGW 8312-R T0220								
VGW 8375-R E004	VGW 8375-R E02	4.76/188"	9.525/375"						
VGW 8375-R E010	VGW 8375-R T0220								

# SRG



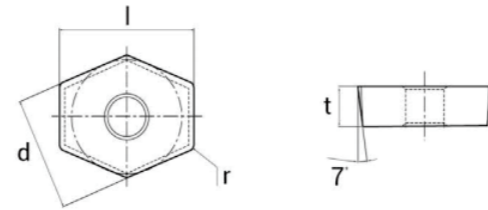
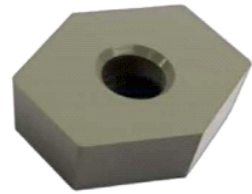
牌号	尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	w	t	r						
SRG 1510	9.896	15.875	6.35	0.80					●	
SRG 1512	12.206	15.875	6.35	0.80					●	
SRG 1513	12.580	15.875	6.35	0.80					●	
SRG 1914	14.370	19.050	6.35	0.80					●	
SRG 1915	15.506	19.050	6.35	0.80					●	

# HNEN



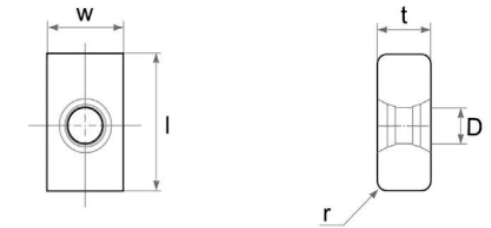
牌号	尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	d	t	r						
HNEN 090520	16.20	5.56	2.0			●			
HNEN 090530	16.20	5.56	3.0			●			
HNEN 0905 ANSN	15.87	5.64	0.8			●			

# SRGA



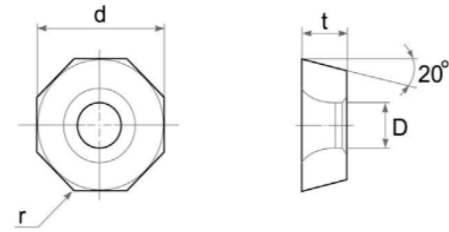
牌号	尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	w	t	r						
SRGA 2216	16.741	22.200	6.35	0.80					●	
SRGA 2218	18.300	22.225	6.35	0.80					●	
SRGA 2522	22.700	25.700	7.94	0.80					●	
SRGA 2518	17.802	25.400	6.35	0.80					●	
SRGA 3819	19.630	38.100	6.35	0.80					●	

# LNE



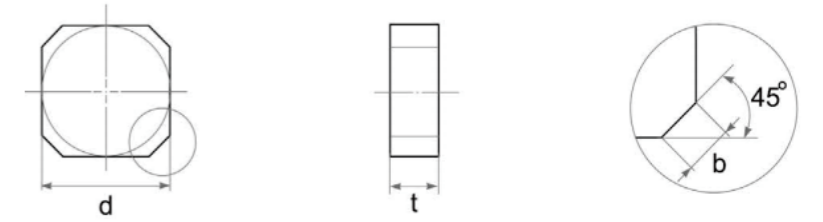
牌号	尺寸(mm)					BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	w	t	D	r						
LNE 040904	15.87	9.52	4.76	4.41	0.4			●			
LNE 040908	15.87	9.52	4.76	4.41	0.8			●			
LNE 040912	15.87	9.52	4.76	4.41	1.2			●			

# OEGB



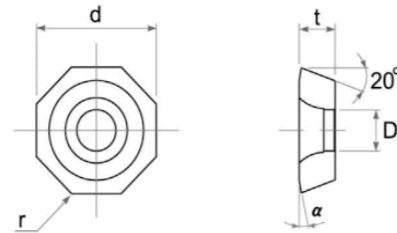
牌号	尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	w	t	r						
OEGB 070408	15.87	4.76	5.18	0.80						
OEGB 070416	15.87	4.76	5.18	1.6			●			

# SNCN



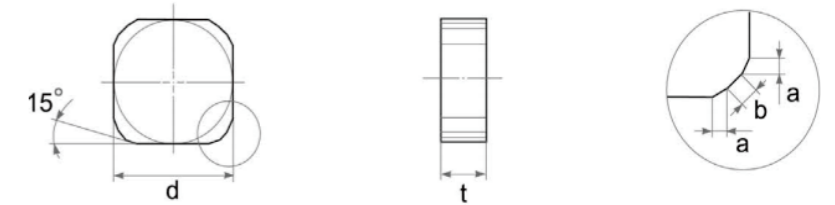
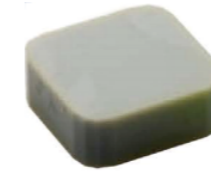
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	b						
SNCN 1204 AN	SNCN 43 AN	12.70	4.76	2.50				●		
SNCN 1204 ZN	SNCN 43 ZN	12.70	4.76	1.10				●		

# OEGB..CR



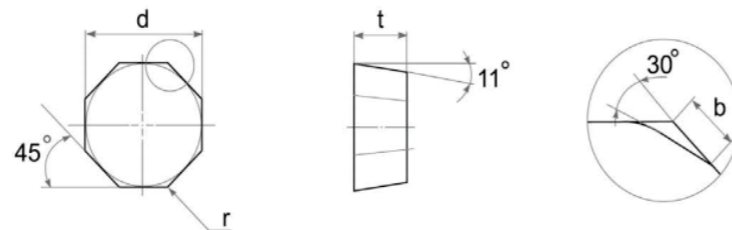
牌号	尺寸(mm)					BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	w	t	D	a						
OEGB 0704080003 CR	15.87	4.76	5.18	0.80	10°			●			
OEGB 0704160003 CR	15.87	4.76	5.18	1.60	10°			●			
OEGB 0705160003 CR	15.87	5.56	5.18	1.60	10°			●			

# SNCN..ENTN



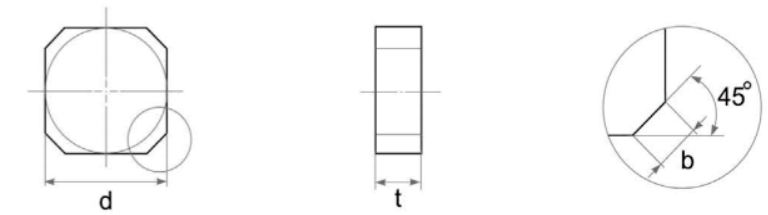
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	a	b						
SNCN 1204 ENTN	SNCN 43 ENTN	12.70	4.76	1.40	1.00			●			
SNCN 1504 ENTN	SNCN 53 ENTN	15.87	4.76	1.40	1.00			●			

# OPEN



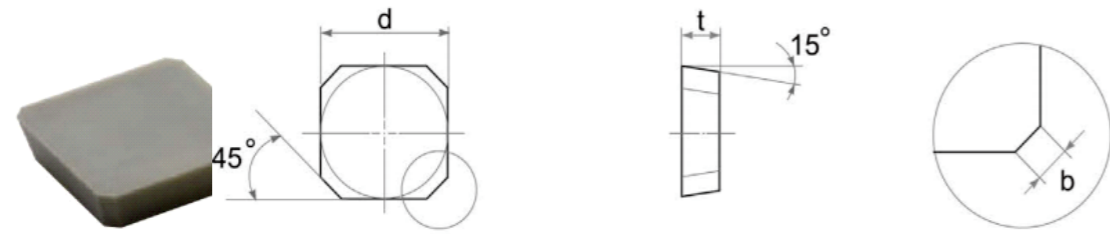
牌号	尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	d	t	r	b						
OPEN 050408 TR	13.97	4.76	0.80	2.10						
OPEN 050608 TR	13.97	6.35	0.80	2.10			●			

# SNCN..ING



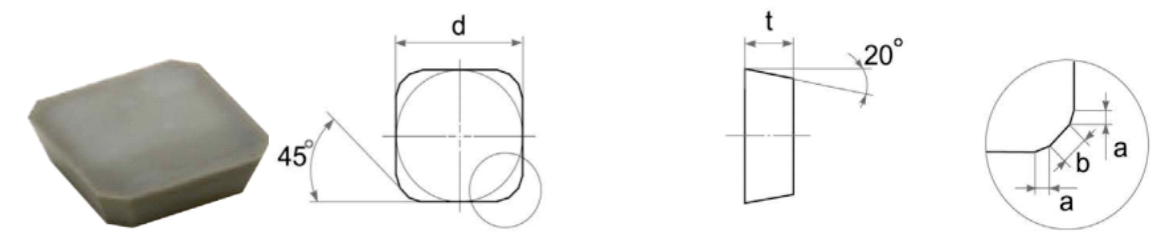
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	b						
SNGN 1204 ING	SNGN 43 ING	12.70	4.76	1.50			●			
SNGN 1904 ING	SNGN 63 ING	19.05	4.76	2.50			●			

# SDCN



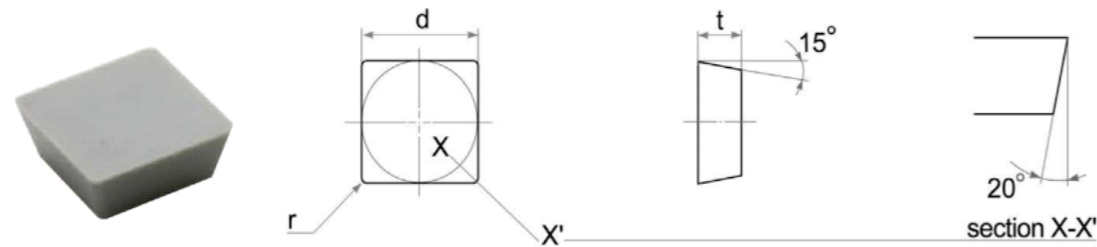
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	b						
SDCN 1203 AETN 12	SDCN 42 AETN 12	12.70	3.18	1.2				●		
SDCN 1203 AETN	SDCN 42 AETN	12.70	3.18	2.0				●		
SDCN 1504 AETN	SDCN 53 AETN	15.87	4.76	2.0						

# SEAN



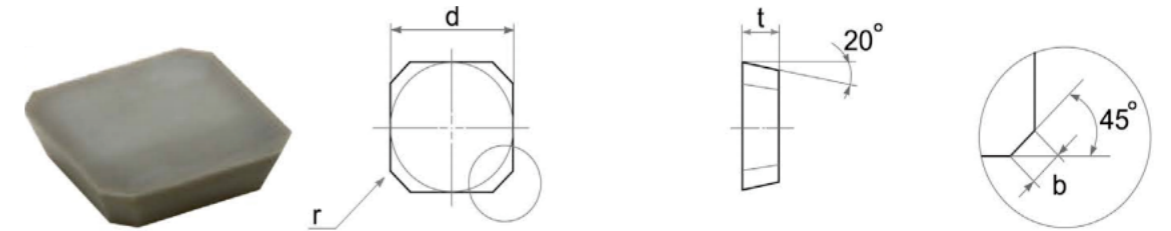
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	a	b						
SEAN 1203 AFTN	SEAN 42 AFTN	12.70	3.18	0.50	1.80			●			
SEAN 1504 AFTN	SEAN 53 AFTN	12.70	4.76	0.70	2.00			●			

# SDCN..T



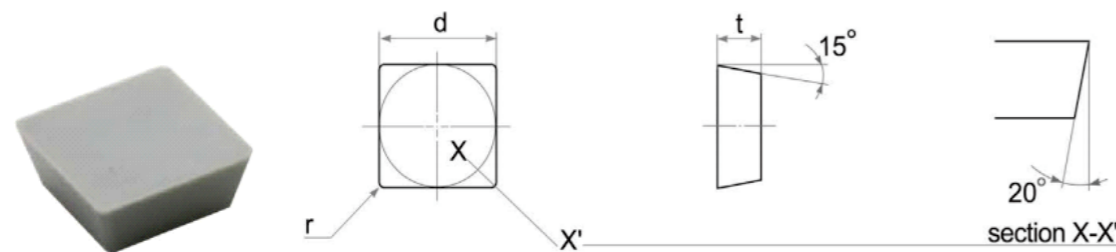
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	b						
SDCN 120408 T20	SDCN 432 T20	12.70	4.76	0.8				●		
SDCN 120412 T20	SDCN 433 T20	12.70	4.76	1.2				●		

# SEAN..NW



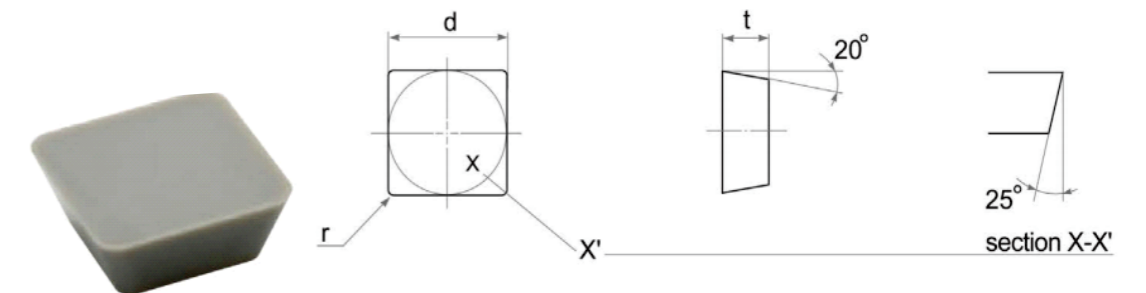
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	a	b						
SEAN 1203 NWAFTN	SEAN 42 NWAFTN	12.70	3.18	2.40	0.4				●		
SEAN 1204 AFTNW 25	SEAN 43 AFTNW 25	12.70	3.18	2.50	1.2						

# SDCW



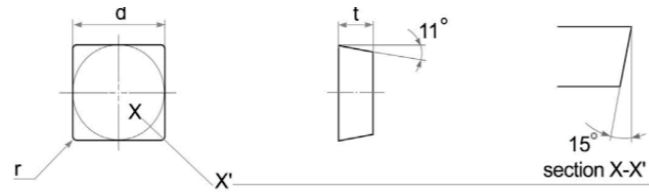
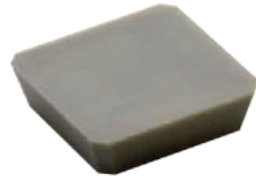
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	D						
SDCW 1204 PDSR	SDCW 43 PDSR	12.70	4.76	4.40				●		

# SEAN..T



牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
SEAN 120412 T25	SEAN 433 T25	12.70	4.76	1.2				●		
SEAN 120416 T25	SEAN 434 T25	12.70	4.76	1.6				●		

# SPCN..T



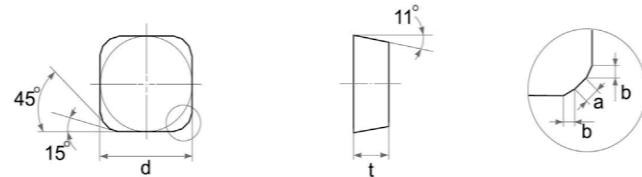
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
SPCN 120412 T15	SPCN 433 T15	12.70	4.76	1.2				●		
SPCN 120416 T15	SPCN 434 T15	12.70	4.76	1.6				●		

# SPCW



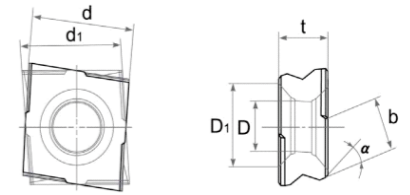
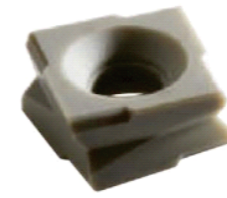
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
SPCW 10 T3ZX	SPCW 10 T3ZX	10.00	3.97	3.52				●		

# SPEN



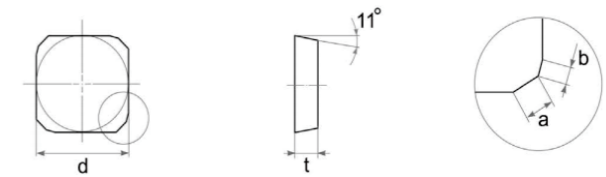
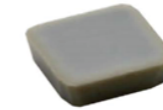
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r	b						
SPEN 1206 APTN	SPEN 44 APTN	12.70	6.35	1.20	1.20				●		

# SPHX



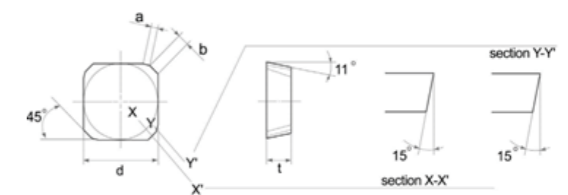
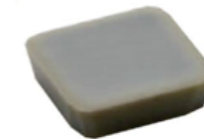
牌号	尺寸(mm)							BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	ISO	d	d1	t	D	D1	a						
SPHX 1205NR 480T	1.167	133	5.50	5.10	8.41	45	8.00				●		
SPHX 1205NL 480T	1.167	1133	5.50	5.10	8.41	45	8.00						
SPHX 1205ER 855T	12.09	11.33	5.50	5.10	8.41	35	5.50				●		
SPHX 1205EL 855T	12.09	11.33	5.50	5.10	8.41	35	5.50				●		
SPHX 15T6NR 880T	14.58	14.33	6.60	6.10	10.18	45	8.80				●		
SPHX 15T6ER 865T	15.50	14.33	6.60	6.10	10.18	35	6.50				●		

# SPKN



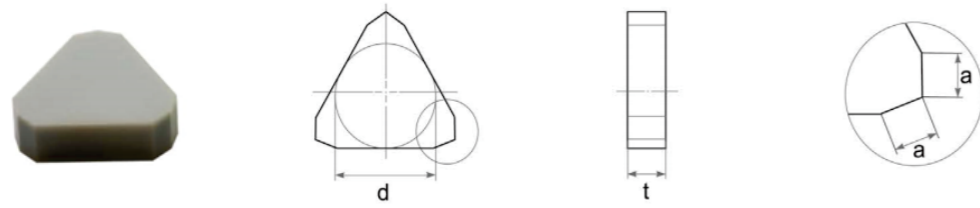
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r	b						
SPKN 1203 EDTR	SPKN 42 EDTR	12.70	3.18	1.40	1.00				●		
SPKN 1504 EDTR	SPKN 53 EDTR	15.87	4.76	1.40	1.00				●		

# SPKN..SP



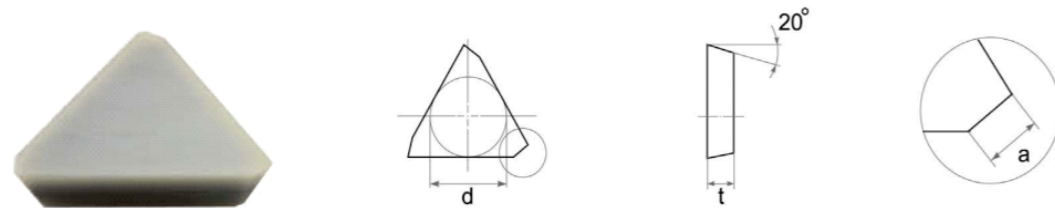
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r	b						
SPKN 1204SP EDTR	SPKN 43SP EDTR	12.70	4.76	1.10	1.30				●		

# TNCN



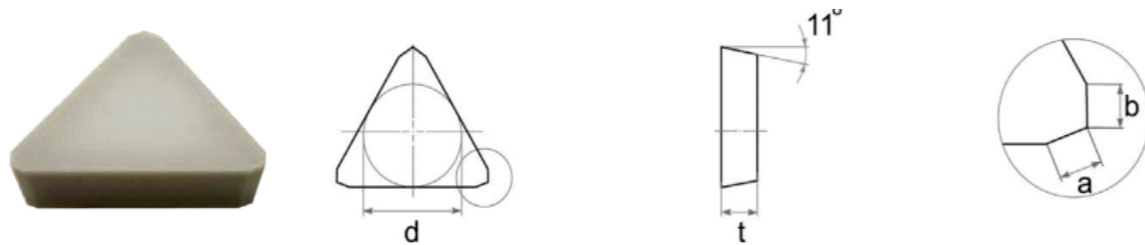
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	a						
TNCN 2204 ANT	TNCN 43 ANT	12.70	4.76	2.60			●			

# TEKN



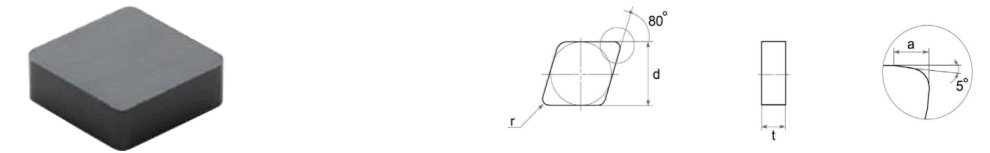
牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r						
TEKN 1603 PFTR	TEKN 32 PFTR	9.52	3.18	1.40			●			
TEKN 2204 PFTR	TEKN 43 PFTR	12.70	4.76	2.10			●			

# TPKN



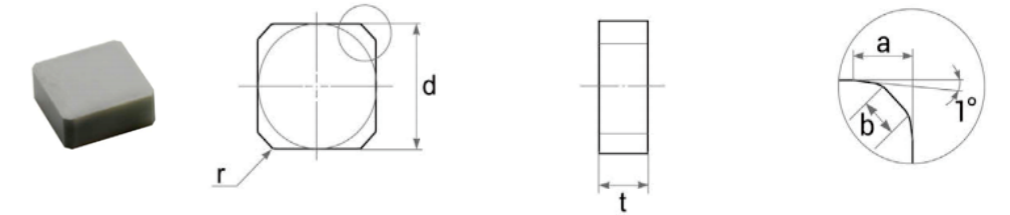
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	r	b						
TPKN 1603 PDTR	TPKN 32 PDTR	9.52	3.18	1.20	1.00			●			
TPKN 2204 PDTR	TPKN 43 PDTR	12.70	4.76	1.40	0.70			●			

# CNGN..AZ



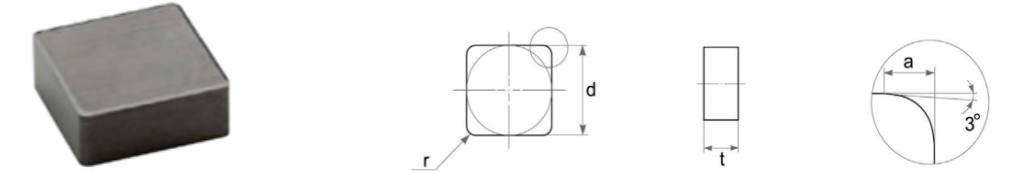
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50
ISO	ASA	d	t	r	a				
CNGN 1204 AZ	CNGN 43 AZ	12.70	4.76	1.00	1.60	●			

# SNCN..ZZT



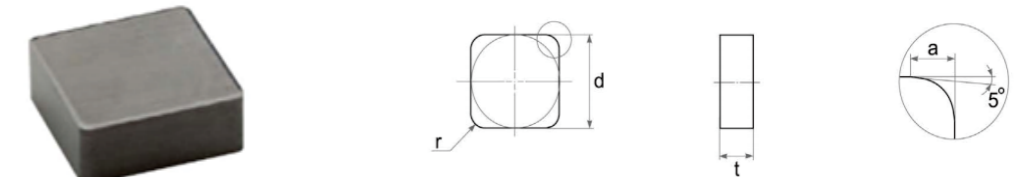
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	a	b						
SNCN 0904 ZZT	SNCN 33 ZZT	9.52	4.76	1.30	1.10			●			
SNCN 1204 ZZT	SNCN 43 ZZT	12.70	4.76	3.25	1.10		●	●			

# SNCN..GZ



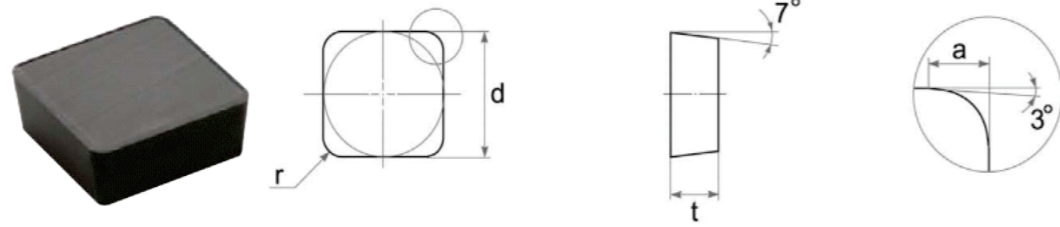
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	a	b						
SNCN 0904 GZ	SNCN 33 GZ	9.52	4.76	0.80	1.00				●		

# SNCN..KZ



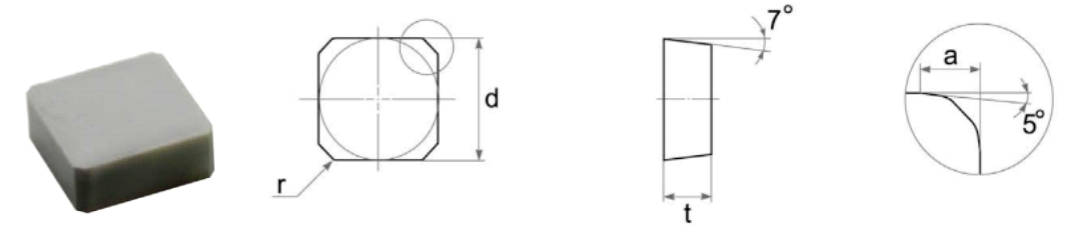
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	a	b						
SNCN 1204KZ	SNCN 43 KZ	12.70	4.76	1.2	1.80				●		

# SCGN..WZ



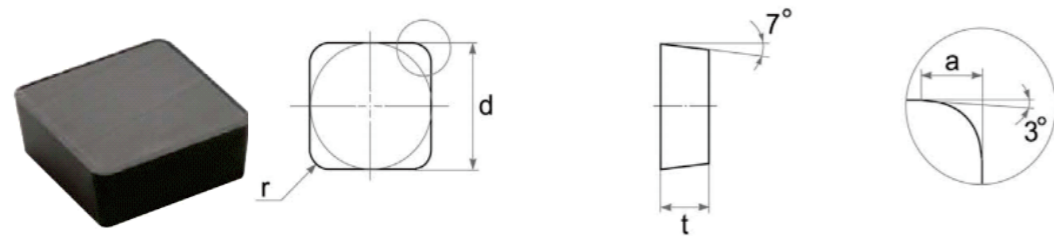
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	a	b						
SCGN 0904 WZ	SCGN 33 WZ	9.52	4.76	0.8	1.60				●		
SCGN 1204 WZ	SCGN 43 WZ	12.70	4.76	0.8	1.60				●		

# SCGN..MZ



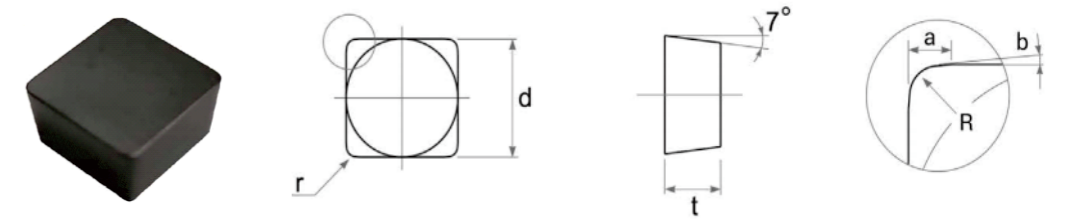
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	a	b						
SCGN 0904 WZ	SCGN 33 WZ	9.52	4.76	0.8	1.60				●		
SCGN 1204 WZ	SCGN 43 WZ	12.70	4.76	0.8	1.60				●		

# SCGN..XZ



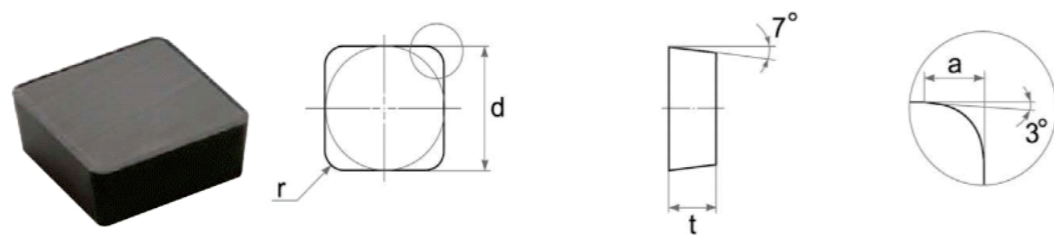
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	a	b						
SCGN 0904 XZ	SCGN 33 XZ	9.52	4.76	0.8	1.20				●		
SCGN 1204 XZ	SCGN 43 XZ	12.70	4.76	0.8	1.20				●		

# SCGN..ZZM



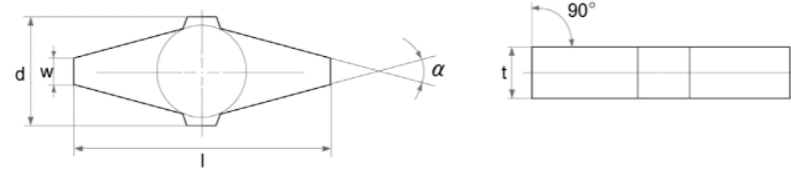
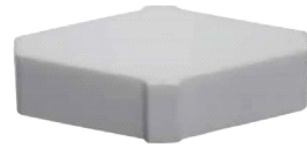
牌号		尺寸(mm)					BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	a	b	R						
SCGN 0904 ZZM	SCGN 33 ZZM	9.52	4.76	1.23	5°	0.8						●

# SCGN..ZZ



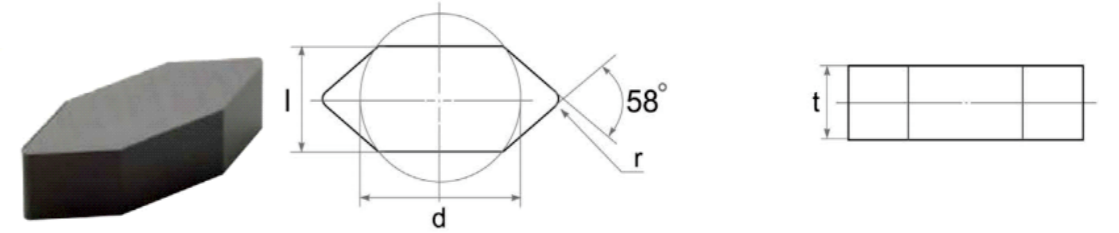
牌号		尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	a	b						
SCGN 0904 ZZ	SCGN 33 ZZ	9.52	4.76	0.8	1.00				●		
SCGN 1204 ZZ	SCGN 43 ZZ	12.70	4.76	0.8	1.00				●		

# SVW



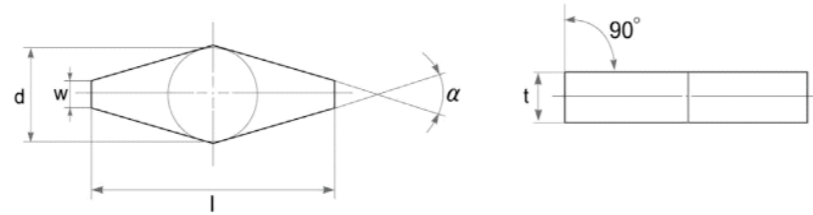
牌号	尺寸(mm)					BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	$\alpha$	d	t	w						
SVW 38260	26.00	38°	11.5	7.94	2.23	●					
SVW 38320	32.00	38°	14.5	7.94	3.22	●					
SVW 34400	40.00	34°	18.5	7.94	5.07	●					

# SZT 5810



牌号	尺寸(mm)				BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	w	t	r						
SZT 581004	14.70	10.00	7.94	0.4	●	●				
SZT 581008	14.70	10.00	7.94	0.8	●	●				
SZT 581012	14.70	10.00	7.94	1.2	●	●				

# GVGN



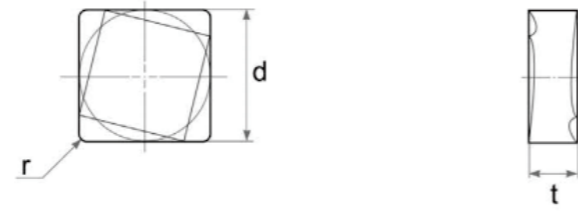
牌号	尺寸(mm)					BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	$\alpha$	d	t	w						
GVGN 38320	32.00	38°	13.46	7.94	2.22	●					
GVGN 38335	33.50	38°	13.28	8.00	3.06	●					
GVGN 36340	34.00	36°	13.59	7.94	3.25	●					
GVGN 38360	36.00	38°	17.38	7.94	5.98	●					
GVGN 34360	36.00	34°	17.42	7.94	7.22	●					

# SNMX



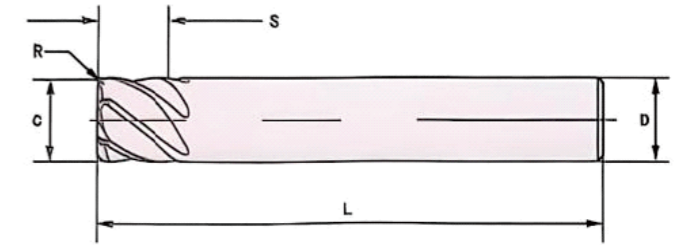
牌号	尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
	l	w	t						
SNMX 121007	12.70	10.00	7.0	●	●				
SNMX 121009	12.70	10.00	9.0	●	●				
SNMX 121012	12.70	10.00	12.0	●	●				
SNMX 121015	12.70	10.00	15.0	●	●				
SNMX 121020	12.70	10.00	20.0	●	●				
SNMX 121025	12.70	10.00	25.0	●	●				
SNMX 121030	12.70	10.00	30.0						
SNMX 121040	12.70	10.00	40.0						
SNMX 121050	12.70	10.00	50.0						

# SNGF

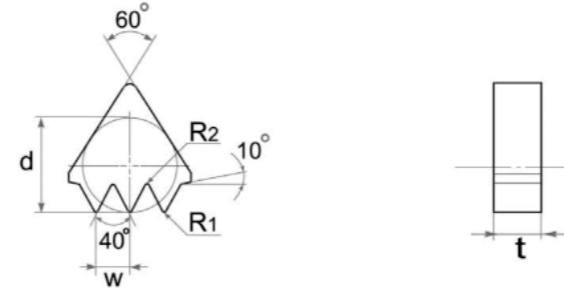


牌号		尺寸(mm)			BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	ASA	d	t	a						
SNGF 120412	SNGF 433	12.70	4.76	1.2				●		

# 陶瓷立铣刀 / Solid Ceramic End Mills Inserts -通柄型 / Straight Shank



# INGN

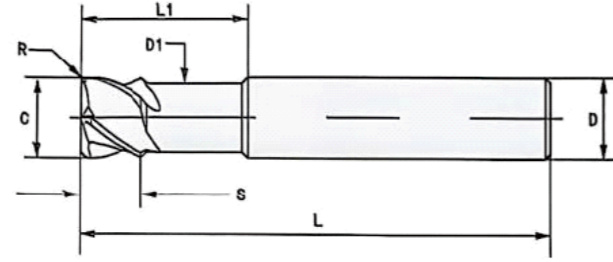


牌号		尺寸(mm)					BAT10	BAT30	BSN30	BSN50	BSA80	BSA90
ISO	d	t	w	R <sub>1</sub>	R <sub>2</sub>							
INGN 160435 F303	9.52	4.76	3.56	0.5	0.3	●						
INGN 160435 F304	9.52	4.76	3.56	0.5	0.4	●						
INGN 220435 F403	12.70	4.76	3.56	0.5	0.3	●						
INGN 220435 F404	12.70	4.76	3.56	0.5	0.4	●						

型号/Type	D	R	C	S	L	F	牌号 Grade	
	柄径 Shank Diameter	刀尖圆弧 Corner Radius	刃径 Cutting Edge Diameter	刃长(最大切深) Etrecre GulBngyh	总长 Overall Length	刃数 Number Of Flutes	BSA80	BSA90
TB-D4R0.5C453L50F4	4.0/157"	0.50/0197"	4.0/157"	3.0/118"	50.0/1.968"	4	●	
TB-D6R0.75C6S4.5L50F4	6.0/236"	0.75/0295"	6.0/236"	4.5/177"	50.0/1.968"	4		
TB-DBR1.0C856.0L60F4	8.0/315"	1.00/0394"	8.0/315"	6.0/236"	60.0/2.362"	4	●	
TB-D-0R1.25C1057.5L65F4	10.0/394"	1.25/0492"	10.0/394"	7.5/295"	65.0/2.559"	4	●	
TB-D12R1.5C1259L70F4	12.0/472"	1.50/0590"	12.0/472"	9.0/354"	70.0/2.756"	4	●	
TB-D16R1.75C16512L75F4	16.0/630"	1.75/0689"	16.0/630"	12.0/472"	75.0/2.952"	4	●	
TB-D20R2.0C20S15L80F4	20.0/787"	1.75/0689"	20.0/787"	15.0/590"	80.0/3.149"	4	●	
TB-D4R0.5C4S3L50F6	4.0/157"	0.50/0197"	4.0/157"	3.0/118"	50.0/1.968"	6	●	
TB-D6R0.75C6S4.5L50F6	6.0/236"	0.75/0295"	6.0/236"	4.5/177"	50.0/1.968"	6	●	
TB-DBR1.0C8S6.0L60F6	8.0/315"	1.00/0394"	8.0/315"	6.0/236"	60.0/2.362"	6	●	
TB-D10R1.25C1057.5L65F6	10.0/394"	1.25/0492"	10.0/394"	7.5/295"	65.0/2.559"	6	●	
TB-D12R1.5C1259L70F6	12.0/472"	1.50/0590"	12.0/472"	9.0/354"	70.0/2.756"	6	●	
TB-D16R1.75C16S12L75F6	16.0/630"	1.75/0689"	16.0/630"	12.0/472"	75.0/2.952"	6	●	
TB-D20R2.0C20S15L80F6	20.0/787"	1.75/0689"	20.0/787"	15.0/590"	80.0/3.149"	6	●	

# 陶瓷立铣刀/Solid Ceramic End Mills Inserts

## -缩颈型/Reduced Neck Shank



Metric/Inch 型号/Type	D	R	C	S	D1	L1	L	F	牌号 Grade	
	柄径 Shank Diameter	刀尖圆弧 C0rner Radius	刃径 Cutting Edge Diameter	刃长(最大切深) Etrecre GulB8ngyh	缩颈 Reduced Neck		总长 Overall Length	刃数 Number Of Flutes	BSA80	BSA90
SJ-D4R0.5C453L50F4	4.0/.157"	0.50/.0197"	4.0/.157"	3.0/.118"	3.80/.015"	6.0/.236"	50.0/1.968"	4	●	
SJ-D6R0.75C654.5L50F4	6.0/.236"	0.75/.0295"	6.0/.236"	4.5/.177"	5.80/.228"	9.0/.354"	50.0/1.968"	4	●	
SJ-DBR1.0CBS6.0L60F4	8.0/.315"	1.00/.0394"	8.0/.315"	6.0/.236"	7.70/.303"	12.0/.472"	60.0/2.362"	4	●	
SJ-D10R1.25C1057.5L65F4	10.0/.394"	1.25/.0492"	10.0/.394"	7.5/.295"	9.60/.378"	15.0/.590"	65.0/2.559"	4	●	
SJ-D12R1.5C12S9L70F4	12.0/.472"	1.50/.0590"	12.0/.472"	9.0/.354"	11.50/.453"	18.0/.708"	70.0/2.756"	4	●	
SJ-D16R1.75C16S12L75F4	16.0/.630"	1.75/.0689"	16.0/.630"	12.0/.472"	15.40/.606"	24.0/.945"	75.0/2.952"	4	●	
SJ-D20R2.0C20S15L80F4	20.0/.787"	1.75/.0689"	20.0/.787"	15.0/.590"	15.40/.606"	30.0/1.181"	80.0/3.149"	4	●	
SJ-D4R0.5C4S3L50F6	4.0/.157"	0.50/.0197"	4.0/.157"	3.0/.118"	3.80/.015"	6.0/.236"	50.0/1.968"	6	●	
SJ-D6R0.75C654.5L50F6	6.0/.236"	0.75/.0295"	6.0/.236"	4.5/.177"	5.80/.228"	9.0/.354"	50.0/1.968"	6	●	
SJ-D8R1.0CBS6.0L60F6	8.0/.315"	1.00/.0394"	8.0/.315"	6.0/.236"	7.70/.303"	12.0/.472"	60.0/2.362"	6	●	
SJ-D10R1.25C1057.5L65F6	10.0/.394"	1.25/.0492"	10.0/.394"	7.5/.295"	9.60/.378"	15.0/.590"	65.0/2.559"	6	●	
SJ-D12R1.5C12S9L70F6	12.0/.472"	1.50/.0590"	12.0/.472"	9.0/.354"	11.50/.453"	18.0/.708"	70.0/2.756"	6	●	
SJ-D16R1.75C16S12L75F6	16.0/.630"	1.75/.0689"	16.0/.630"	12.0/.472"	15.40/.606"	24.0/.945"	75.0/2.952"	6	●	
SJ-D20R2.0C20S15L80F6	20.0/.787"	1.75/.0689"	20.0/.787"	15.0/.590"	15.40/.606"	30.0/1.181"	80.0/3.149"	6	●	