

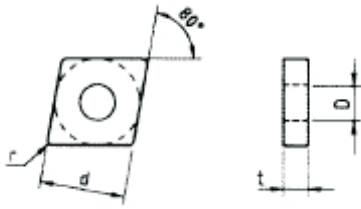
## 陶瓷刀片材质

CC1010	白瓷，主要应用在铸铁和钢的粗精加工，可使用高的表面切削速度；
CC1020	黑瓷，具有极好的耐磨性，在抗月牙洼磨损表现独特；
CC1030	黑瓷，用于淬硬钢、冷硬铸铁、粉末冶金的加工；
CC5106	具有很好的耐磨损性
CC5136	适合铸件的断续加：可用于铣削，车削工序
CC5146	通用性号的材质，适合加工铸铁类材质
CC5156	加工铸铁，特别是球铁加工，可用于断续和连续加工工序
CC5166	加工硬材料，可应用于断续加工
CC6067	SiN陶瓷，主要应用在航空航天材料的加工，用于镍基合金，哈氏合金等
CC6070	晶须陶瓷，主要应用在航空航天材料的粗精加工，也可应用在不锈钢、硬钢。铸铁的加工

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## CNGA 80度负角刀片



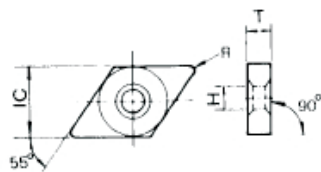
ISO DESIGNATION	INSERT STYLE	DIMENSIONS				BLACK / WHITE				SILICON NITRIDE				
		IC	T	R	H	CC1010	CC1020	CC1030	CC1030 COATED	CC5106	CC5136	CC5146	CC5156	CC5166
CNGA 120404	<b>CNGA 431</b>	1/2	3/16	1/64	.203	+	+	+	+	+	+	+	+	+
CNGA 120408	<b>CNGA 432</b>			1/32		+	+	+	+	+	+	+	+	+
CNGA 120412	<b>CNGA 433</b>			3/64		+	+	+	+	+	+	+	+	+
CNGA 120416	<b>CNGA 434</b>			1/16		+	+	+	+	+	+	+	+	+
CNGA 160404	<b>CNGA 541</b>	5/8	1/4	1/64	.250	+	+	+	+	+	+	+	+	+
CNGA 160408	<b>CNGA 542</b>			1/32		+	+	+	+	+	+	+	+	+
CNGA 160412	<b>CNGA 543</b>			3/64		+	+	+	+	+	+	+	+	+
CNGA 160416	<b>CNGA 544</b>			1/16		+	+	+	+	+	+	+	+	+
CNGA 190604	<b>CNGA 641</b>	3/4	1/4	1/64	.312	+	+	+	+	+	+	+	+	+
CNGA 190608	<b>CNGA 642</b>			1/32		+	+	+	+	+	+	+	+	+
CNGA 190612	<b>CNGA 643</b>			3/64		+	+	+	+	+	+	+	+	+
CNGA 190616	<b>CNGA 644</b>			1/16		+	+	+	+	+	+	+	+	+

## CNGN 80度负角刀片



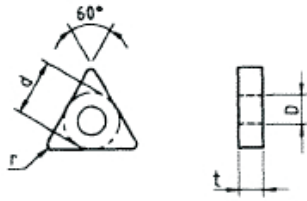
ISO DESIGNATION	INSERT STYLE	DIMENSIONS				BLACK / WHITE				SILICON NITRIDE					
		IC	T	R	H	CC1010	CC1020	CC1030	CC1030 COATED	CC5106	CC5136	CC5146	CC5156	CC5166	CC6067
CNGN 120404	<b>CNGN 431</b>	1/2	3/16	1/64	—	+	+	+	+	+					
CNGN 120408	<b>CNGN 432</b>			1/32		+	+	+	+						
CNGN 120412	<b>CNGN 433</b>			3/64		+	+	+	+						
CNGN 120416	<b>CNGN 434</b>			1/16		+	+	+	+						
CNGN 120704	<b>CNGN 451</b>	1/2	5/16	1/64	—	+	+	+	+	+					
CNGN 120708	<b>CNGN 452</b>			1/32		+	+	+	+						
CNGN 120712	<b>CNGN 453</b>			3/64		+	+	+	+						
CNGN 120716	<b>CNGN 454</b>			1/16		+	+	+	+						
CNGN 160604	<b>CNGN 541</b>	5/8	1/4	1/64	—	+	+	+	+	+					
CNGN 160608	<b>CNGN 542</b>			1/32		+	+	+	+						
CNGN 160612	<b>CNGN 543</b>			3/64		+	+	+	+						
CNGN 160616	<b>CNGN 544</b>			1/16		+	+	+	+						

# DNGA 55度负角刀片



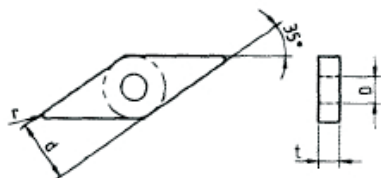
ISO DESIGNATION	INSERT STYLE	DIMENSIONS				BLACK / WHITE				SILICON NITRIDE					
		IC	T	R	H	CC1010	CC1020	CC1030	CC1030 COATED	CC5106	CC5136	CC5146	CC5156	CC5166	CC6067
DNGA 150404	<b>DNGA 431</b>	1/2	3/16	1/64	.203	+	+	+	+	+					
DNGA 150408	<b>DNGA 432</b>			1/32		+	+	+	+						
DNGA 150412	<b>DNGA 433</b>			3/64		+	+	+	+						
DNGA 150416	<b>DNGA 434</b>			1/16		+	+	+	+						
DNGA 190604	<b>DNGA 541</b>	5/8	1/4	1/64	.250	+	+	+	+	+					
DNGA 190608	<b>DNGA 542</b>			1/32		+	+	+	+						
DNGA 190612	<b>DNGA 543</b>			3/64		+	+	+	+						
DNGA 190616	<b>DNGA 544</b>			1/16		+	+	+	+						

# TNGA 60度负角刀片



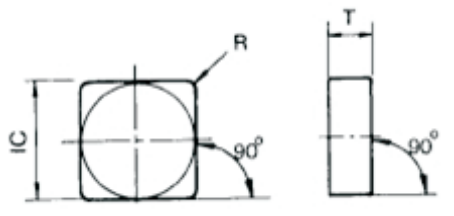
ISO DESIGNATION	INSERT STYLE	DIMENSIONS				BLACK / WHITE				SILICON NITRIDE					
		IC	T	R	H	CC1010	CC1020	CC1030	CC1030 COATED	CC5106	CC5136	CC5146	CC5156	CC5166	CC6067
TNGA 160304 TNGA 160308 TNGA 160312 TNGA 160316	<b>TNGA 321</b> <b>TNGA 322</b> <b>TNGA 323</b> <b>TNGA 324</b>	3/8	1/8	1/64 1/32 3/64 1/16	.150	+	+	+	+						
TNGA 160404 TNGA 160408 TNGA 160412 TNGA 160416	<b>TNGA 331</b> <b>TNGA 332</b> <b>TNGA 333</b> <b>TNGA 334</b>	3/8	3/16	1/64 1/32 3/64 1/16	.150	+	+	+	+	+	+	+	+	+	+
TNGA 220404 TNGA 220408 TNGA 220412 TNGA 220416	<b>TNGA 431</b> <b>TNGA 432</b> <b>TNGA 433</b> <b>TNGA 434</b>	1/2	3/16	1/64 1/32 3/64 1/16	.203	+	+	+	+		+	+	+	+	+
TNGA 270604 TNGA 270608 TNGA 270612 TNGA 270616	<b>TNGA 541</b> <b>TNGA 542</b> <b>TNGA 543</b> <b>TNGA 544</b>	5/8	1/4	1/64 1/32 3/64 1/16	.250	+	+	+	+						

## VNGA 35度负角刀片



ISO DESIGNATION	INSERT STYLE	DIMENSIONS				BLACK / WHITE				SILICON NITRIDE					
		IC	T	R	H	CC1010	CC1020	CC1030	CC1030 COATED	CC5106	CC5136	CC5146	CC5156	CC5166	CC6067
VNGA 160404	<b>VNGA 331</b>	3/8	3/16	1/64	.150	+	+	+	+						+
VNGA 160408	<b>VNGA 332</b>			1/32		+	+	+	+			+	+	+	+
VNGA 160412	<b>VNGA 333</b>			3/64		+	+	+	+			+	+	+	+
VNGA 160416	<b>VNGA 334</b>			1/16		+	+	+	+						
VNGA 220404	<b>VNGA 431</b>	1/2	3/16	1/64	.203	+	+	+	+						
VNGA 220408	<b>VNGA 432</b>			1/32		+	+	+	+			+	+	+	+
VNGA 220412	<b>VNGA 433</b>			3/64		+	+	+	+			+	+	+	+
VNGA 220416	<b>VNGA 434</b>			1/16		+	+	+	+						

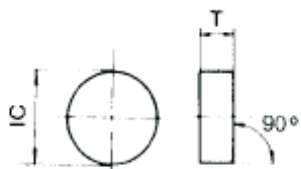
## SNGN 方形负角刀片



ISO DESIGNATION	INSERT STYLE	DIMENSIONS				BLACK / WHITE				SILICON NITRIDE					
		IC	T	R	H	CC1010	CC1020	CC1030	CC1030 COATED	CC5106	CC5136	CC5146	CC5156	CC5166	CC6067
SNGN 090304	<b>SNGN 321</b>	3/8	1/8	1/64	—	+	+	+	+						+
SNGN 090308	<b>SNGN 322</b>			1/32		+	+	+	+	+					+
SNGN 090312	<b>SNGN 323</b>			3/64		+	+	+	+	+					+
SNGN 090316	<b>SNGN 324</b>			1/16		+	+	+	+						
SNGN 090304	<b>SNGN 331</b>	3/8	3/16	1/64	—	+	+	+	+						
SNGN 090308	<b>SNGN 332</b>			1/32		+	+	+	+	+	+	+	+	+	+
SNGN 090312	<b>SNGN 333</b>			3/64		+	+	+	+	+	+	+	+	+	+
SNGN 090316	<b>SNGN 334</b>			1/16		+	+	+	+						
SNGN 120404	<b>SNGN 431</b>	1/2	3/16	1/64	—	+	+	+	+						+
SNGN 120408	<b>SNGN 432</b>			1/32		+	+	+	+	+	+	+	+	+	+
SNGN 120412	<b>SNGN 433</b>			3/64		+	+	+	+	+	+	+	+	+	+
SNGN 120416	<b>SNGN 434</b>			1/16		+	+	+	+	+	+	+	+	+	+
SNGN 120424	<b>SNGN 436</b>			3/32		+	+	+	+						
SNGN 120432	<b>SNGN 438</b>			1/8		+	+	+	+						
SNGN 120704	<b>SNGN 451</b>	1/2	5/16	1/64	—	+	+	+	+	+	+	+	+	+	+
SNGN 120708	<b>SNGN 452</b>			1/32		+	+	+	+	+	+	+	+	+	+
SNGN 120712	<b>SNGN 453</b>			3/64		+	+	+	+	+	+	+	+	+	+
SNGN 120716	<b>SNGN 454</b>			1/16		+	+	+	+	+	+	+	+	+	+
SNGN 150604	<b>SNGN 541</b>	5/8	1/4	1/64	—	+	+	+	+						
SNGN 150608	<b>SNGN 542</b>			1/32		+	+	+	+						
SNGN 150612	<b>SNGN 543</b>			3/64		+	+	+	+						
SNGN 150616	<b>SNGN 544</b>			1/16		+	+	+	+						
SNGN 190404	<b>SNGN 631</b>	3/4	3/16	1/64	—	+	+	+	+						
SNGN 190408	<b>SNGN 632</b>			1/32		+	+	+	+						
SNGN 190412	<b>SNGN 633</b>			3/64		+	+	+	+						
SNGN 190416	<b>SNGN 634</b>			1/16		+	+	+	+						
SNGN 190604	<b>SNGN 641</b>	3/4	1/4	1/64	—	+	+	+	+						+
SNGN 190608	<b>SNGN 642</b>			1/32		+	+	+	+						+
SNGN 190612	<b>SNGN 643</b>			3/64		+	+	+	+	+	+	+	+	+	
SNGN 190616	<b>SNGN 644</b>			1/16		+	+	+	+						+

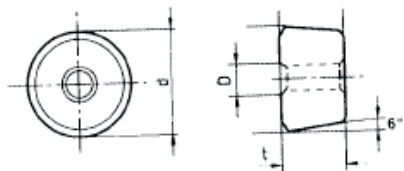


# RNG 圆形负角刀片



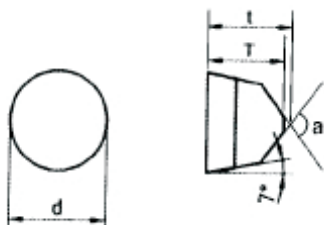
ISO DESIGNATION	INSERT STYLE	DIMENSIONS				BLACK / WHITE				SILICON NITRIDE				
		IC	T	R	H	CC1010	CC1020	CC1030	CC1030 COATED	CC5106	CC5136	CC5146	CC5156	CC5166
RNGN 090300	<b>RNGN 32</b>	3/8	1/8	—	—	+	+	+	+	+	+	+	+	+
RNGN 090400	<b>RNGN 33</b>	3/8	3/16	—	—	+	+	+	+	+	+	+	+	+
RNGN 120400	<b>RNGN 43</b>	1/2	3/16	—	—	+	+	+	+	+	+	+	+	+
RNGN 120700	<b>RNGN 45</b>	1/2	5/16	—	—	+	+	+	+	+	+	+	+	+
RNGN 190600	<b>RNGN 64</b>	3/4	1/4	—	—	+	+	+	+					+
RNGN 250700	<b>RNGN 86</b>	1	3/8	—	—	+	+	+	+					+

## RCMA 圆形正角刀片



DESIGNATION	INSERT STYLE	DIMENSIONS			BLACK / WHITE				SILICON NITRIDE	
		IC	T	H	CC1010	CC1020	CC1030	CC1030 COATED	CC6067	
RCMA 41	<b>CDH 22</b>	1/2	1/4	.125	+	+	+			
RCMA 63	<b>CDH 315</b>	3/4	3/16	.125	+	+	+			
RCMA 66	<b>CDH 33</b>	3/4	3/8	.250	+	+	+			
RCMA 68	<b>CDH 34</b>	3/4	1/2	.250	+	+	+			
RCMA 88	<b>CDH 42</b>	1	1/2	.266	+	+	+		+	
RCMA 812	<b>CDH 43</b>	1	3/4	.266	+	+	+			
RCMA 106	<b>CDH 515</b>	1-1/4	3/8	.390	+	+	+		+	
RCMA 1012	<b>CDH 53</b>	1-1/4	3/4	.390	+	+	+			

## RCGX 圆形正角刀片



ISO DESIGNATION	INSERT STYLE	DIMENSIONS			BLACK / WHITE				SILICON NITRIDE
		IC	T	ANGLE	CC1010	CC1020	CC1030	CC1030 COATED	CC6067
RCGX 060400	<b>RCGX 102</b>	1/4	3/16	120 degrees	+	+	+		
RCGX 060600	<b>RCGX 102</b>	1/4	1/4	120 degrees	+	+	+		
RCGX 060700	<b>RCGX 102</b>	1/4	5/16	120 degrees	+	+	+		
RCGX 090700	<b>RCGX 103</b>	3/8	.313	120 degrees	+	+	+		+
RCGX 120700	<b>RCGX 104</b>	1/2	.313	120 degrees	+	+	+		+
RCGX 151000	<b>RCGX 105</b>	5/8	.394	120 degrees	+	+	+		+
RCGX 191000	<b>RCGX 106</b>	3/4	.394	120 degrees	+	+	+		
RCGX 251200	<b>RCGX 108</b>	1	.473	140 degrees	+	+	+		

## 陶瓷刀片切削参数

### 车削切削参数

材质	描述	推荐材质	Vc (m/min)	Fn (mm/r)	DOC (Max)
低碳钢<56HRC	粗加工	CC1010, CC1020	90-700	0.2-0.5	1.5
	精加工	CC1010, CC1020	180-1200	0.07-0.7	0.5
合金钢<56HRC	粗加工	CC1010, CC1020	60-670	0.2-0.5	1.5
	精加工	CC1010, CC1020	180-1200	0.07-0.7	0.5
灰铸铁	粗加工	CC5XX6	150-1500	0.25-0.65	6.35
	精加工	CC1020, CC5XX6	240-1500	0.08-0.65	1.2
球墨铸铁	粗加工	CC5XX6	150-600	0.25-0.65	3.8
	精加工	CC1020, CC5XX6	150-750	0.08-0.65	1
镍基合金	粗加工	CC6067	150-260	0.15-0.4	3.8
	精加工	CC6067, CC6070	150-450	0.1-0.2	1
淬硬钢>56HRC	精加工	CC1030	60-210	0.07-0.25	0.5
	精加工	CC1030 (coated)	60-210	0.07-0.25	1.77

### 铣削切削参数

材质	描述	推荐材质	Vc (m/min)	Fz (mm/z)	DOC (Max)
灰铸铁	粗加工	CC5XX6	90-1200	0.1-0.2	-
	精加工	CC1020, CC5XX6	150-1500	0.05-0.1	-
球墨铸铁	粗加工	CC5XX6	90-750	0.05-0.15	-
	精加工	CC5XX6	200-1500	0.05-0.1	-

## CC6070 切削参数

材质	硬度 HRC	Vc (m/min)	Fn (mm/r)	DOC (Max)
Inconel718	36-46	200-760	0.1-0.3	15
Rene 95	45-50	90-270	0.1-0.3	12
Waspaloy	45-50	240-270	0.1-0.2	2.5
Hastelloy	30-40	270-600	0.15-0.4	4
Stellite	35-45	150-360	0.1-0.3	1.5
400 不锈钢	45-55	150-270	0.15-0.4	5
工具钢	60	45-135	0.1-0.4	0.4
工具钢	35	420	0.75	1.5
淬硬钢	62	140-200	0.07-0.2	1.5-4
球墨铸铁	25	300-365	0.17-0.5	7.6

注：1. CC6070材质可提供全系列型号刀片，订货需单独询价；  
 2. 如果您未找到您需求的刀片，请直接联系我们的销售人员，我们有大量库存标准刀片未列入样本。