

Ceramic Inserts

B
Negative Inserts

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Ceramic
Solid CBN

Negative With Insert Hole

- (Legend)
- Continuous cut ● : 1st choice ○ : 2nd choice
 - Medium cut ● : 1st choice ○ : 2nd choice
 - Interrupted cut ● : 1st choice ○ : 2nd choice

P Steel	●	○
M Stainless steel	●	○
K Cast iron	●	○
N Non-ferrous metal	●	○
S Exotic alloy	●	○
H Hardened steel	●	○

Shape	Cat. No.	Ceramic			Dimensions (mm)			
		WX120	NB90S	NB100C	Inscribed circle	Thickness	Nose radius	Dia.
	CNGA 120404	●	●	○	12.70	4.76	0.4	5.16
	CNGA 120408	●	●	○				
	CNGA 120412	●	●	○				

80° Diamond Type

Shape	Cat. No.	Ceramic			Dimensions (mm)			
		WX120	NB90S	NB100C	Inscribed circle	Thickness	Nose radius	Dia.
	DNGA 150404	●	●	○	12.70	4.76	0.4	5.16
	DNGA 150408	●	●	○				
	DNGA 150412	●	●	○				

55° Diamond Type

Shape	Cat. No.	Ceramic			Dimensions (mm)			
		WX120	NB90S	NB100C	Inscribed circle	Thickness	Nose radius	Dia.
	CNGN 120408	●	●	○	12.70	4.76	0.8	—
	CNGN 120412	●	●	○				
	CNGN 120416	●	●	○				
	CNGN 120712	●	●	○				

Negative Without Insert Hole

- (Legend)
- Continuous cut ● : 1st choice ○ : 2nd choice
 - Medium cut ● : 1st choice ○ : 2nd choice
 - Interrupted cut ● : 1st choice ○ : 2nd choice

P Steel	●	○
M Stainless steel	●	○
K Cast iron	●	○
N Non-ferrous metal	●	○
S Exotic alloy	●	○
H Hardened steel	●	○

Shape	Cat. No.	Ceramic			Dimensions (mm)			
		WX120	NB90S	NB100C	Inscribed circle	Thickness	Nose radius	Dia.
	CNGN 120408	●	●	○	12.70	4.76	1.2	—
	CNGN 120412	●	●	○				
	CNGN 120416	●	●	○				
	CNGN 120712	●	●	○				

80° Diamond Type

Shape	Cat. No.	Ceramic			Dimensions (mm)			
		WX120	NB90S	NB100C	Inscribed circle	Thickness	Nose radius	Dia.
	DNGN 150408	●	●	○	12.70	4.76	0.8	—
	DNGN 150412	●	●	○				
	DNGN 150416	●	●	○				
	DNGN 150712	●	●	○				

55° Diamond Type

Shape	Cat. No.	Ceramic			Dimensions (mm)			
		WX120	NB90S	NB100C	Inscribed circle	Thickness	Nose radius	Dia.
	ENGN 130408	●	●	○	12.70	4.76	0.8	—
	ENGN 130412	●	●	○				
	ENGN 130708	●	●	○				
	ENGN 130712	●	●	○				

75° Diamond Type

Shape	Cat. No.	Ceramic			Dimensions (mm)			
		WX120	NB90S	NB100C	Inscribed circle	Thickness	Nose radius	Dia.
	RNGN 120400	●	●	○	15.875	7.94	—	—
	RNGN 120700	●	●	○				
	RNGN 150700	●	●	○				

Round Type

Shape	Cat. No.	Ceramic			Dimensions (mm)			
		WX120	NB90S	NB100C	Inscribed circle	Thickness	Nose radius	Dia.
	SNGN 120408	●	●	○	12.70	4.76	0.8	—
	SNGN 120412	●	●	○				
	SNGN 120416	●	●	○				
	SNGN 120420	●	●	○				
	SNGN 120708	●	●	○				
	SNGN 120712	●	●	○				
	SNGN 120716	●	●	○				
SNGN 120720	●	●	○					

Square Type

Shape	Cat. No.	Ceramic			Dimensions (mm)			
		WX120	NB90S	NB100C	Inscribed circle	Thickness	Nose radius	Dia.
	TNGA 160404	●	●	○	9.525	4.76	0.4	3.81
	TNGA 160408	●	●	○				
	TNGA 160412	●	●	○				
	TNGA 160416	●	●	○				
	TNGA 160416	●	●	○				

Triangular Type

Shape	Cat. No.	Ceramic			Dimensions (mm)			
		WX120	NB90S	NB100C	Inscribed circle	Thickness	Nose radius	Dia.
	TNGN 160404	●	●	○	9.525	4.76	0.4	—
	TNGN 160408	●	●	○				
	TNGN 160412	●	●	○				
	TNGN 160412	●	●	○				
	TNGN 160712	●	●	○				

Triangular Type

Shape	Cat. No.	Ceramic			Dimensions (mm)			
		WX120	NB90S	NB100C	Inscribed circle	Thickness	Nose radius	Dia.
	VNGA 160404	●	●	○	9.525	4.76	0.4	3.81
	VNGA 160408	●	●	○				
	VNGA 160408	●	●	○				
	VNGA 160408	●	●	○				
	VNGA 160408	●	●	○				

35° Diamond Type

Shape	Cat. No.	Ceramic			Dimensions (mm)			
		WX120	NB90S	NB100C	Inscribed circle	Thickness	Nose radius	Dia.
	VNGA 160404	●	●	○	9.525	4.76	0.4	3.81
	VNGA 160408	●	●	○				
	VNGA 160408	●	●	○				
	VNGA 160408	●	●	○				
	VNGA 160408	●	●	○				

WX120 is only available in Japan.

Positive

Without Insert Hole

(Legend)

Continuous cut ● : 1st choice
○ : 2nd choice

Medium cut ● : 1st choice
⊙ : 2nd choice

Interrupted cut ● : 1st choice
⊛ : 2nd choice

Recommended application	P Steel	M Stainless steel	K Cast iron	N Non-ferrous metal	S Exotic alloy	H Hardened steel

Shape	Cat. No.	Ceramic			Dimensions (mm)			
		WX120	NB90S	NB100C	Inscribed circle	Thickness	Nose radius	Dia.
	RBGN 120700				12.70	7.94	—	—
	RBGN 150700				15.875	7.94	—	—
	RBGN 250900				25.40	9.52	—	—
	RBG 12S				12.00	11.0	—	—
	RBG 16S		●		16.00	13.0	—	—
	RBG 20S		●		20.00	15.0	—	—
	RBG 26S				26.00	16.0	—	—
	RBG 32S				32.00	21.0	—	—
	RCGX 090700	●			9.525	7.94	—	—
	RCGX 120700				12.70	7.94	—	—

Shape	Cat. No.	WX120	NB90S	NB100C	Inscribed circle	Thickness	Nose radius	Dia.
	SPGN 090308				9.525	3.18	0.8	—
	SPGN 120308		●		12.70	3.18	0.8	—

Shape	Cat. No.	WX120	NB90S	NB100C	Inscribed circle	Thickness	Nose radius	Dia.
	TPGN 110304		●	●	6.35	3.18	0.4	—
	TPGN 110308		●	●	6.35	3.18	0.8	—
	TPGN 160304		●	●	9.525	3.18	0.4	—
	TPGN 160308		●	●	9.525	3.18	0.8	—

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B

Positive Inserts

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Ceramic Solid CBN