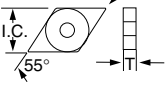
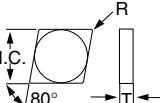
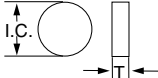


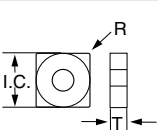
Ceramic Inserts - Advanced Cutting Materials

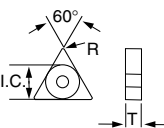
General Info	CNMA		Grades		Dimensions				
	Sumitomo Cat. No.		NS260C	NS260	Inscribed Circle	Thickness	Radius	Hole Diameter	
Negative Inserts	CNMA432		•	•	1/2	3/16	1/32	.2031	
	CNMA433		•	•			3/64		
	CNMA434		•	•			1/16		
Positive Inserts									

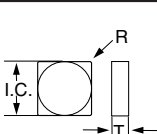
DNMA	Grades		Dimensions				
	Sumitomo Cat. No.		Inscribed Circle	Thickness	Radius	Hole Diameter	
	NS260C	NS260					
DNMA432	•	•	1/2	3/16	1/32	.2031	
DNMA433	•	•			3/64		

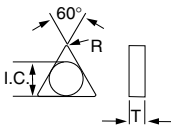
CNMN	Grades		Dimensions					
	Sumitomo Cat. No.	NS260C	NS260	Inscribed Circle	Thickness	Radius		Hole Diameter
CNMN432	•	•	1/2	3/16	1/32	-		
CNMN433	•	•			3/64			
CNMN434	•	•			1/16			

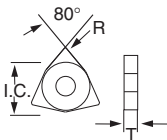
RNMN	Grades		Dimensions				
	Sumitomo Cat. No.		Inscribed Circle	Thickness	Radius	Hole Diameter	
	NS260C	NS260					
RNMN43	●	●	1/2	3/16		-	

Ace-Fix Inserts	SNMA	Grades		Dimensions				
Threading, Grooving, & Cut-Off Inserts		Sumitomo Cat. No.	NS260C	NS260	Inscribed Circle	Thickness	Radius	
Ceramic Inserts	SNMA432	•	•	1/2	3/16	1/32	.2031	
	SNMA433	•	•			3/64		

TNMA	Grades		Dimensions				
	Sumitomo Cat. No.		Inscribed Circle	Thickness	Radius	Hole Diameter	
	NS260C	NS260					
TNMA332	•	•	3/8	3/16	1/32	.2031	
TNMA333	•	•			3/64		
TNMA334	•	•			1/16		

SNMN	Grades		Dimensions				
	Sumitomo Cat. No.	NS260C	NS260	Inscribed Circle	Thickness	Radius	
SNMN432	●	●	1/2	3/16	1/32	—	
SNMN433	●	●			3/64		
SNMN434	●	●			1/16		

TNMN	Grades		Dimensions				
	Sumitomo Cat. No.	NS260C	NS260	Inscribed Circle	Thickness	Radius	
TNMN332	•	•	3/8	3/16	1/32	—	
TNMN333	•	•			3/64		
TNMN334	•	•			1/16		

& PLD Inserts											
Toolholders	WNMA	Grades		Dimensions							
	Sumitomo Cat. No.	NS260C	NS260	Inscribed Circle	Thickness	Radius	Hole Diameter				
Swiss Toolholders	WNMA432	•	•	1/2	3/16	1/32	.2031				
	WNMA433	•	•			3/64					
Boring											



For added wear resistance when turning gray cast iron, try the coated ceramic grade NS260C.

SPMN		Grades		Dimensions				
Sumitomo Cat. No.		NS260C	NS260	Inscribed Circle	Thickness	Radius	Hole Diameter	
SPMN422		●	●	1/2	1/8	1/32	—	
SPMN423		●	●			3/64		

SPMN	Grades		Dimensions					
	Sumitomo Cat. No.		NS260C	NS260	Inscribed Circle	Thickness	Radius	
	SPMN422		•	•	1/2	1/8	1/32	
	SPMN423		•	•			3/64	

Ceramic Inserts - Advanced Cutting Materials

Ceramic Inserts - Advanced Cutting Materials

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PCBN & PCD Inserts

Toolholders

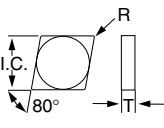
Swiss Toolholders

Boring Bars

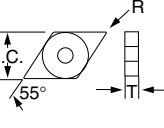
Technical Info

ALMT

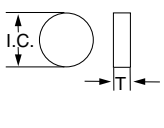
CNG	Grades		Dimensions			
	Sumitomo Cat. No.	NB90S NS30	Inscribed Circle	Thickness	Radius	Hole Diameter
CNG432	•	▲	1/2	3/16	1/32	—
CNG433	•	▲		3/16	3/64	—
CNG434	•	▲		1/2	1/16	—
CNG452	•	•		5/16	1/32	—
CNG453	•	•		5/16	3/64	—
CNG454	•	•	3/4	1/4	1/16	—
CNG642	▲	•		1/4	1/32	—
CNG643	•	•		1/4	3/64	—
CNG644	▲	•		1/4	1/16	—
CNG648	•	•		1/4	1/8	—



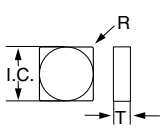
DNGA	Grades		Dimensions			
	Sumitomo Cat. No.	NB90S NS30	Inscribed Circle	Thickness	Radius	Hole Diameter
DNGA432	•	▲	1/2	3/16	1/32	—
DNGA433	•	•		3/16	3/64	—
DNGA434	•	▲		1/2	1/16	—
DNGA442	▲	•		1/4	1/32	—
DNGA443	•	•		1/4	3/64	—
DNGA542	▲	•	5/8	1/4	1/32	—
DNGA543	•	•		1/4	3/64	—



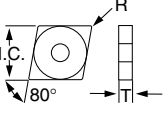
RNG	Grades		Dimensions			
	Sumitomo Cat. No.	NB90S NS30	Inscribed Circle	Thickness	Radius	Hole Diameter
RNG32	•	•	3/8	1/8	—	—
RNG33	▲	•		3/16	—	—
RNG42	▲	•		1/8	—	—
RNG43	•	•	1/2	3/16	—	—
RNG45	•	•		5/16	—	—
RNG55	•	•	5/8	5/16	—	—



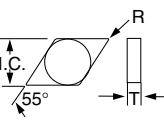
SNG	Grades		Dimensions			
	Sumitomo Cat. No.	NB90S NS30	Inscribed Circle	Thickness	Radius	Hole Diameter
SNG 322	▲	•	3/8	1/8	1/32	—
SNG 432	•	•		1/8	1/32	—
SNG 433	▲	▲		3/16	3/64	—
SNG 434	▲	▲		1/2	1/16	—
SNG 435	▲	•		1/2	5/64	—
SNG 438	•	▲	1/2	1/8	1/8	—
SNG 452	•	•		1/2	1/32	—
SNG 453	•	•		5/16	3/64	—
SNG 454	▲	▲		1/2	1/16	—
SNG 543	•	▲		1/4	3/64	—
SNG 544	•	▲	5/8	1/4	1/16	—
SNG 643	•	•		3/4	3/64	—
SNG 644	•	▲		3/4	1/16	—



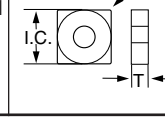
CNGA	Grades		Dimensions			
	Sumitomo Cat. No.	NB90S NS30	Inscribed Circle	Thickness	Radius	Hole Diameter
CNGA431	•	•	1/2	3/16	1/64	—
CNGA432	•	•		3/16	1/32	—
CNGA433	•	•		3/16	3/64	—
CNGA434	•	•		1/2	1/16	—
CNGA543	•	•		5/8	1/4	—
CNGA544	▲	•	5/8	1/4	3/64	—
CNGA643	•	•		3/4	3/64	—
CNGA644	▲	•		3/4	1/16	—



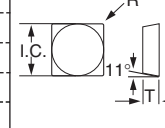
DNG	Grades		Dimensions			
	Sumitomo Cat. No.	NB90S NS30	Inscribed Circle	Thickness	Radius	Hole Diameter
DNG432	•	•	1/2	3/16	1/32	—
DNG433	•	•		3/16	3/64	—
DNG452	▲	•		5/8	1/32	—
DNG543	•	•	5/8	1/4	3/64	—
DNG544	▲	•		1/4	1/16	—



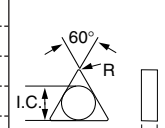
SNGA	Grades		Dimensions			
	Sumitomo Cat. No.	NB90S NS30	Inscribed Circle	Thickness	Radius	Hole Diameter
SNGA432	•	▲	1/2	3/16	1/32	—
SNGA433	•	•		3/16	3/64	—
SNGA434	•	•		1/2	1/16	—
SNGA434	•	•		1/2	1/16	—



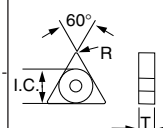
SPG	Grades		Dimensions			
	Sumitomo Cat. No.	NB90S NS30	Inscribed Circle	Thickness	Radius	Hole Diameter
SPG322	•	•	3/8	1/8	1/32	—
SPG422	•	▲		1/8	1/32	—
SPG423	▲	▲		1/8	3/64	—
SPG432	•	▲	1/2	3/16	1/32	—
SPG433	•	▲		3/16	3/64	—
SPG632	•	▲	3/4	3/16	1/32	—
SPG633	•	▲		3/16	3/64	—
SPG634	•	▲		3/16	1/16	—



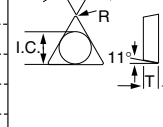
TNG	Grades		Dimensions			
	Sumitomo Cat. No.	NB90S NS30	Inscribed Circle	Thickness	Radius	Hole Diameter
TNG221	▲	•	1/4	1/8	1/64	—
TNG222	▲	•		1/8	1/32	—
TNG321	•	•		1/8	1/64	—
TNG322	•	•		1/8	1/32	—
TNG331	•	•		3/8	1/64	—
TNG332	•	•	3/8	3/16	1/32	—
TNG333	▲	▲		3/16	3/64	—
TNG334	▲	•		3/16	1/16	—
TNG335	▲	•		3/16	5/64	—
TNG336	•	•		3/16	3/32	—
TNG432	•	▲	1/2	3/16	1/32	—
TNG433	•	▲		3/16	3/64	—
TNG434	•	▲		3/16	1/16	—
TNG436	•	▲		3/16	3/32	—



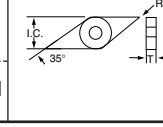
TNGA	Grades		Dimensions			
	Sumitomo Cat. No.	NB90S NS30	Inscribed Circle	Thickness	Radius	Hole Diameter
TNGA321	•	•	3/8	1/8	1/64	—
TNGA322	•	•		1/8	1/32	—
TNGA323	▲	•		3/8	3/64	—
TNGA332	•	•		3/8	1/32	—
TNGA333	•	•		3/8	3/64	—
TNGA432	•	•	1/2	3/16	1/32	—
TNGA433	•	•		3/16	3/64	—
TNGA434	•	•		3/16	1/16	—
TNGA436	•	•		3/16	3/32	—
TNGA438	•	•		3/16	1/8	—
TNGA543	•	•	5/8	1/4	3/64	—
TNGA544	•	•		1/4	1/16	—



TPG	Grades		Dimensions			
	Sumitomo Cat. No.	NB90S NS30	Inscribed Circle	Thickness	Radius	Hole Diameter
TPG221	•	•	1/4	1/8	1/64	—
TPG222	•	•		1/8	1/32	—
TPG321	•	•		1/8	1/64	—
TPG322	•	•	3/8	3/16	1/32	—
TPG323	•	•		3/16	3/64	—
TPG332	•	•		3/16	1/32	—
TPG432	•	•	1/2	3/16	1/32	—
TPG433	•	•		3/16	3/64	—



VNGA	Grades		Dimensions			
	Sumitomo Cat. No.	NB90S NS30	Inscribed Circle	Thickness	Radius	Hole Diameter
VNGA331	•	•	3/8	3/16	1/64	—
VNGA332	•	•		3/16	1/32	—
VNGA333	•	•		3/16	3/64	—
VNGA432	•	•		3/16	1/32	—
VNGA433	•	•		3/16	3/64	—



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Swiss Toolholders

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