

# SUMIBORON Indexable Inserts

## Turning Inserts

Appearance	Shape	Cat. No.	Stock							Dimension (mm)				Applicable Holder		
			BN1000	BN2000	BNX20	BN350	BNX25*	BNX10	BN500	BN7000	BN700	Inscribed Circle IC	Thickness S		Nose Radius RE	Hole Size
		<b>NU-ZNEX 040102</b> <b>NU-ZNEX 040104</b> <b>T-NU-ZNEX 040102</b> <b>T-NU-ZNEX 040104</b>	●	●					●	●	4.76	1.59	0.2	2.3	SUMIBORON Small Hole Boring Bar BNZ Type → L104	
			●	●					●	●			0.4			
				●									0.2			
			●										0.4			

\* BNX25, use NS type code (NS-ZNEX).  
\* T-NU-ZNEX is a 10 pieces pack.

## Round Inserts

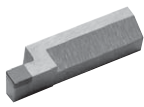
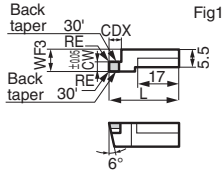

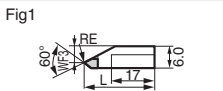
Appearance	Shape	Cat. No.	Stock								Dimension (mm)			Fig	Applicable Holder			
			BN1000	BN2000	BNX20	BN350	BNX25	BNX10	BN500	BN7000	BN700	BNS800	Inscribed Circle IC			Thickness S	Thickness of CBN S3	
	Fig1	<b>RNGA 0906M0</b>		●	●							9.00	6.35	0.80	1	SUMIBORON Tool Holder for Round Insert (PRGN Type) → L109		
	Fig1  Fig2	<b>RNGN 120400-B</b>								●	●	12.70	4.76	0.80	1	Special Holder		
		<b>RNGN 150400-B</b>										15.88						
		<b>RNGN 090300</b>									●		9.525		3.18	3.18	2	Tool Holder for Solid SUMIBORON (CRDN, CRSN Types)
		<b>RNGN 090300 LF</b>									●							
		<b>RNGN 120300</b>									●		12.70					
		<b>RNGN 120300 LF</b>									●							
		<b>RNGN 120400</b>								●		12.70	4.76	4.76			→ L99	
	Fig1	<b>RBG 08-B</b>								●	●	8.00	6.50		1	SUMIBORON Tool Holder for Roll Turning (BNRN Type) → L110		
		<b>RBG 10-B</b>								●	●	10.00	9.00					
		<b>RBG 12-B</b>									●	●	12.00	11.00			0.80	
		<b>RBG 16-B</b>									●	●	16.00	13.00				
		<b>RBG 20-B</b>									●	●	20.00	15.00				
		<b>RBG 26-B</b>									●	●	26.00	15.00				
	Fig1	<b>RBGN 12S3M0-B</b>			▲							12.00			1	Special Holder		
		<b>RBGN 16S3M0-B</b>										16.00	3.60	0.80				
		<b>RBGN 20S3M0-B</b>										20.00						
		<b>RBGN 29S3M0-B</b>										29.00						
		<b>RCGA 0906M0</b>			●								9.00	6.35			0.80	
	Fig1	<b>RTGN 0508M0</b>		●								5.00	7.50	0.80	1	SUMIBORON Tool Holder for Small Round Insert (TRGT Type) → L108		
		<b>RTGN 0608M0</b>		●								6.00						
		<b>RTGN 0711M0</b>		●								7.00						
		<b>RTGN 0811M0</b>		●								8.00						
		<b>RTGN 0914M0</b>		●								9.00						
		<b>RTGN 1014M0</b>		●								10.00	14.00					
		<b>RTGN 1214M0</b>		●								12.00						

## Milling Inserts

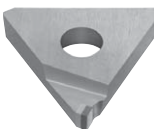
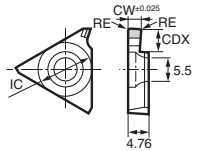
Appearance	Shape	Cat. No.	Stock				Dimension (mm)		Fig	Applicable Cutter		
			BN1000	BN2000	BN7000	BN700	Inscribed Circle IC	Thickness S				
	Fig1	<b>CSN 43MT</b>		●				12.70	4.76	1	SEC-ACE Mill DNF Type → H54	
	Fig1  Fig2	<b>SNEN 1504ADTR</b>			●	●		15.875	4.76	1	BN Finish Mill FM, FMF Types → L116	
		<b>SNEN 1504ADTL</b>			●	●		15.875	4.76	2		
		<b>SNEN 1504ADTR-S</b>			●	●						
		<b>SNEN 1504ADTL-S</b>				●	●					
	Fig1  Fig2	<b>SNEW 1203ADTR</b>			●	●		12.70	3.18	1	BN Finish Mill EASY FMU Types → L114	
		<b>SNEW 1203ADTR-S</b>			●	●		12.70	3.18	2		

▲ mark: To be replaced by new item (Please confirm stock availability)

## Grooving and Threading Inserts


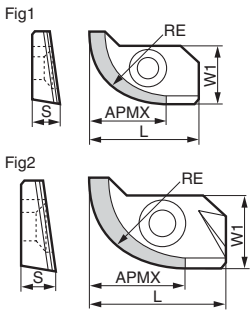

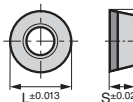
Appearance	Shape (Right-hand tool)	Cat. No.	Stock								Dimension (mm)					Fig	Applicable Holder			
			BN2000		BN250		BNX20		BN350		Width	Groove Depth	Corner Radius	Total Length	Edge Distance					
			R	L	R	L	R	L	R	L	CW	CDX	RE	L	WF3					
	 Fig1 Back taper 30° RE CDX WF3 L L <sub>1</sub> 17 6°	<b>BNGNT 0200 R/L</b>			●				●			2.0	4.0	0.2	25	6.0	1	SUMIBORON Grooving Holder BNGG Type → L112		
		<b>BNGNT 0250 R/L</b>			●				●				2.5	4.0	0.2	25			6.0	
		<b>BNGNT 0300 R/L</b>			●					●				3.0	5.0	0.4			25	6.0
		<b>BNGNT 0400 R/L</b>			●					●				4.0	6.0	0.4			26	6.0
		<b>BNGNT 0500 R/L</b>			●					●				5.0	6.0	0.4			26	6.0
		<b>BNGNT 0600 R/L</b>			●					●				6.0	7.0	0.4			27	6.0
	 Fig1 60° RE L L <sub>1</sub> 17 IC	<b>BNTT 1020 R/L</b>			●							Pitch=1.0-2.0	0.14	25	4.0	1	SUMIBORON Grooving Holder BNGG Type → L112			
		<b>BNTT 1530 R/L</b>			●								Pitch=1.5-3.0	0.20	25			4.0		

## Turning Inserts

Appearance	Shape	Cat. No.	Stock		Dimension (mm)					Applicable Holder
			BN2000		Inscribed Circle	Edge Width	Nose Radius	Max. Groove Depth	Hole Size	
			R	L	IC	CW	RE	CDX		
	 CW <sub>1</sub> =0.025 RE RE CDX 5.5 4.76	<b>TGA R/L4125</b>	●			1.25		2.0		SEC-Grooving Holder (GWC, GWCS, GWCI Type) → F4 to F5
		<b>TGA R/L4150</b>	●			1.50		3.5		
		<b>TGA R/L4200</b>	●		12.70	2.00		3.5		
		<b>TGA R/L4250</b>	●			2.50	0.2	4.0	5.5	
		<b>TGA R/L4300</b>	●			3.00		4.0		
		<b>TGA R/L4350</b>	●			3.50		5.0		
<b>TGA R/L4400</b>	●			4.00		5.0				

Refer to page L111 for CGA Type SUMIBORON grooving inserts for hardened steel. (Applicable Toolholder GWB type →L111)

## Endmill Inserts

Appearance	Shape	Cat. No.	Stock				Dimension (mm)					Fig	Applicable Cutter
			BN350	BN500	BN7000	BN700	Radius of ballnose	Total Length	Width	Cutting Edge	Thickness		
							RE	L	W1	APMX	S		
	 Fig1 RE WT APMX L S Fig2 RE WT APMX L S	<b>BEST 160S</b>	—	—	—	—	8.0	13.0	6.8	10.0	3.5	1	SUMIBORON Ball Endmill BES Type → L117
		<b>BEST 160L</b>	—	—	—	—	8.0	13.0	6.8	13.0	3.5		
		<b>BEST 200S</b>	—	—	—	—	10.0	20.0	8.5	13.0	4.5		
		<b>BEST 200L</b>	—	—	—	—	10.0	20.0	8.5	20.0	4.5		
		<b>BEST 250S</b>	—	●	—	—	12.5	22.5	10.5	15.5	5.0		
		<b>BEST 250L</b>	—	●	—	—	12.5	22.5	10.5	22.5	5.0		
		<b>BEST 300S</b>	—	●	—	—	15.0	25.0	12.0	18.0	6.0		
		<b>BEST 300L</b>	—	●	—	—	15.0	25.0	12.0	25.0	6.0		
		<b>BEST 400S</b>	—	—	—	—	20.0	30.0	16.0	23.0	7.5		
		<b>BEST 400L</b>	—	—	—	—	20.0	30.0	16.0	30.0	7.5		
		<b>BEST 500S</b>	—	—	—	—	25.0	35.0	20.0	28.0	8.0		
		<b>BEST 500L</b>	—	—	—	—	25.0	35.0	20.0	35.0	8.0		
	 Fig1 L=0.013 S=0.025 15°	<b>RDHX 0701M0T</b>	▲	—	▲	▲	—	7.0	—	—	1.99	1	SUMIBORON Radius Endmill BRC Type → L118
		<b>RDHX 0702M0T</b>	▲	—	▲	▲	—	7.0	—	—	2.38		
		<b>RDHX 1003M0T</b>	▲	—	▲	▲	—	10.0	—	—	3.18		
		<b>RDHX 12T3M0T</b>	▲	—	▲	▲	—	12.0	—	—	3.97		