

SUMIDIA Inserts

For Turning

● Round Inserts

Appearance	Shape	Cat. No.	Stock				Dimensions (mm)				Fig	Applicable holders	
			DA90	DA150	DA1000	DA2200	Inscribed circle (IC)	Thickness (S)	Cutting Edge (LE)	Nose radius (RE)			Hole Diameter (D1)
		RPGW 0803M0			●	▲	8.0	3.18	—	—	3.3	1 2	For aluminum wheel machining SEC-RP Type Copying Tools (RP02 Type (Made-to-order item))
		RPGT 0803M0-WF											

Note: The part number suffixes stand for the following: WF: Cutting edge with special land for gloss finishing of aluminum wheels

● Dog bone type

Appearance	Shape	Cat. No.	Stock				Dimensions (mm)				Fig	Applicable holders	
			DA90	DA150	DA1000	DA2200	Length (L)	Thickness (S)	Nose radius (RE)				
		MDE 3R			●	▲	26	8.5	3.0	4.0		1	For aluminum wheel machining SEC-GD Type Copying Tools (GDE Type) → C37
		MDE 4R											
		MDE 3R-AW			●	▲	26	8.5	3.0	4.0			
		MDE 4R-AW											

● Small Dia. Boring Bar Inserts

Appearance	Shape	Cat. No.	Stock				Dimensions (mm)				Fig	Applicable holders	
			DA2200				Min. machining diameter (DMIN)	WF3	Nose radius (RE)	L			CDX
		KBMX R0311-10	●				3.0	4.1	0.1	28.5	11.0	1	Very Small Hole Boring Tools CKB Type → M28
		KBMX R0411-10	●				4.0	4.3	0.1				
		KBMX R0511-10	●				5.0	4.5	0.1				

● Grooving Inserts

Appearance	Shape	Cat. No.	Stock				Dimensions (mm)				Fig	Applicable holders			
			DA2200				Inscribed circle (IC)	Blade width (CW)	Nose radius (RE)	Max. groove depth (APMX)			Hole Diameter (D1)		
		TGA R/L4125	●				12.7	1.25	0.1	2.0	5.5	1	SEC-Grooving Tools (GWC Type, GWCS Type, GWCI Type) → F4,F5		
		TGA R/L4150	●											1.50	3.5
		TGA R/L4200	●											2.00	3.5
		TGA R/L4250	●											2.50	4.0
		TGA R/L4300	●											3.00	4.0
		TGA R/L4350	●											3.50	5.0
		TGA R/L4400	●											4.00	5.0

For Milling

Appearance	Shape	Cat. No.	Stock				Dimensions (mm)				Fig	Applicable cutters / endmills
			DA150	DA1000	DA2200	SC10	Inscribed circle (IC)	Thickness (S)	Cutting Edge (LE)	Relief angle (AN)		

● For SEC-Ace Mill APG type

		APW 4R		●	▲	—	12.70	3.18	2.0	15	1	APG Type → H55
		APW 5R					15.875	4.76	2.0			
		NF-SDC 42R	—	●	▲	—	12.70	3.18	3.0	15	1	
		SDC 42R	●	●	▲	—	12.70	3.18	3.0			
		SDC 53R	—	—	—	—	15.88	4.76	3.0			

● For SEC-Ace Mill FPG type / SEC-Multi Mill FPE type

		NF-SDKN 42M	—	●	▲	—	12.70	3.18	3.0	15	1	FPG Type → H46 FPE Type → H47
		SDKN 42M	●	—	—	—	12.70	3.18	3.0			
		SDKN 53M	—	—	—	—	15.88	4.76	3.0			

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

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For Milling			Stock				Dimensions (mm)			Fig	Applicable cutters / endmills		
			DA150	DA1000	DA2200	SC10	Inscribed circle (IC)	Thickness (S)	Cutting Edge (LE)			Relief angle (AN)	
Appearance	Shape	Cat. No.											
● For SUMIDIA cutter FAM type / SAM type													
		FABR	●	●	—	—	7.9	(5.7)	15	1	FAM Type → M40		
		FABL	—	—	—	—	—	—	—	—	—		
		SABR	●	●	—	—	—	7.9	(5.7)	15	2	SAM Type → From M40	
		SABL	—	—	—	—	—	—	—	—	—	—	
● For SEC-Ace Mill CHG type / SEC-Multi Mill CHE type													
		NF-TEEN 22R	—	●	▲	—	6.35	3.18	4.9	20	1	CHG Type → H90 CHE Type → From H91	
		NF-TEEN 32R	—	●	▲	—	9.525	4.9	4.9				
		NF-TEEN 43R	—	●	▲	—	12.70	4.76	4.8				
		TEEN 22R	●	—	—	—	6.35	3.18	4.9	20			
		TEEN 32R	●	—	—	—	9.525	4.9	4.9				
TEEN 43R	●	▲	—	—	12.70	4.76	4.8	—					
● For high efficiency cutter for Aluminum alloy machining HF type Example													
		NF-LDEN 12T3ZDFR-L	—	●	—	—	—	—	—	—	1	HF Type → From M30	
		NF-LDEN 12T3ZDFR-G	—	●	—	—	—	—	—	—	1		
		NF-LDEN 12T3ZDTR-H	—	●	—	—	—	—	6.0	—	—		1
		NF-LDEN 12T3ZDFR-GX	—	●	—	—	—	—	—	—	—		2
		NF-LDEN 12T3ZDFR-W	—	●	—	—	—	—	—	—	—		3
● For high speed cutter for Aluminum alloy machining RF type (insert)													
		NF-SNEW 1204ADFR	—	●	▲	—	12.70	4.76	4.7	15	1	RF Type → From M36	
		NF-SNEW 120404ADFR-H	—	●	—	—			9.5				
		NF-SNEW 1204ADFR-W	—	●	▲	—			2.3				
		SNEW 1204ADFR-WS	—	—	—	●			1.0				
● For high speed cutter for Aluminum alloy machining RF type (blade)													
		RFB	—	●	—	—	—	6.5	—	—	1	RF Type → From M36	
		RFBW	—	●	—	—	—	—	4.5	—	2		
● For small diameter cutter for Aluminum alloy machining SRF type													
		NF-SNEW 09T3ADTR	—	●	▲	—	9.525	3.96	6.0	15	1	SRF Type → From M38	
		NF-SNEW 09T3ADTR-U	—	●	▲	—					2		
		NF-SNEW 09T3ADTR-R	—	●	▲	—					3		
● For SEC-Wave Mill WGC type													
		NF-SECW13T3AGTN-N	—	●	▲	—	13.40	3.97	2.1	20	1	WGC Type → From H24	
		NF-XEEW13T3AGFR-W	—	●	▲	—	13.40	3.97	2.5	20	1		

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