







# 35° DIAMOND TYPE POSITIVE INSERT

Indexable Inserts for Turning

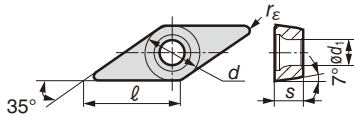
Indexable Inserts

## VC

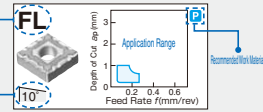
35° Diamond Type

7° Relief

With Insert Hole



Information in "Shape" column



(Legend) Continuous Cut ● : 1st Choice ○ : 2nd Choice Medium Cut ⊙ : 1st Choice ⊚ : 2nd Choice Interrupted Cut ☆ : 1st Choice ☆☆ : 2nd Choice

## VC 1103

•  $l$  : 11.1

•  $\phi d$  : 6.35

•  $s$  : 3.18

•  $\phi d_1$  : 2.8

SUMIBORON (CBN) Inserts L90 SUMIDIA (PCD) Inserts M20

Applicable External Holders C30, D15, 18, 31 Applicable Internal Holders E57 to E60

Shape	Cat. No.	$r_\epsilon$	Coat												Coated Cermet		Cermet		Carbide																
			AC810P	AC820P	AC830P	AC2000	AC610M	AC630M	AC6030M	AC6040M	AC405K	AC415K	AC420K	AC410K	AC503U	AC510U	AC520U	AC530U	ACZ150	T1500Z	T3000Z	T2000Z	T1000A	T1500A	T110A	T1200A	ST10P	ST20E	A30	G10E	EH510	EH620	H1		
<b>FY</b>  Finishing 15°	<b>VCET</b> 1103008R-FY 1103008L-FY 110301R-FY 110301L-FY 1103018R-FY 1103018L-FY	0.08	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		0.08	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		0.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		0.18	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		0.18	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>SU</b>  Light Cutting 8°	<b>VCMT</b> 110302N-SU 110304N-SU 110308N-SU	0.2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		0.4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		0.8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
<b>SI</b>  Light Cutting 15°	<b>VCMT</b> 110301MN-SI 110302MN-SI 110304MN-SI 110308MN-SI	<0.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		<0.2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		<0.4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		<0.8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>AG</b>  for Aluminium 20°	<b>VCMT</b> 110302N-AG 110304N-AG	0.2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		0.4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Nose radii ( $r_\epsilon$ ) indicated with "<" have negative tolerances.

## VC 1604

•  $l$  : 16.6

•  $\phi d$  : 9.525

•  $s$  : 4.76

•  $\phi d_1$  : 4.4

SUMIBORON (CBN) Inserts L91 SUMIDIA (PCD) Inserts M20

Applicable Internal Holders E55, 56

Shape	Cat. No.	$r_\epsilon$	Coat												Coated Cermet		Cermet		Carbide																
			AC810P	AC820P	AC830P	AC2000	AC610M	AC630M	AC6030M	AC6040M	AC405K	AC415K	AC420K	AC410K	AC503U	AC510U	AC520U	AC530U	ACZ150	T1500Z	T3000Z	T2000Z	T1000A	T1500A	T110A	T1200A	ST10P	ST20E	A30	G10E	EH510	EH620	H1		
<b>FB</b>  Finishing 20°	<b>VCMT</b> 160404N-FB <i>NEW</i> 160408N-FB <i>NEW</i>	0.4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		0.8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>LU</b>  Finishing 15°	<b>VCMT</b> 160404N-LU 160408N-LU	0.4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		0.8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>SU</b>  Light Cutting 8°	<b>VCMT</b> 160404N-SU 160408N-SU	0.4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		0.8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>SI</b>  Light Cutting 15°	<b>VCMT</b> 160401MN-SI 160402MN-SI 160404MN-SI	<0.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		<0.2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		<0.4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Nose radii ( $r_\epsilon$ ) indicated with "<" have negative tolerances.



