

VC Chipbreaker



High Productivity Machining Various Shapes or Contours

Excellent Chip Control in a Wide Range of Machining Applications Strong Edge Design

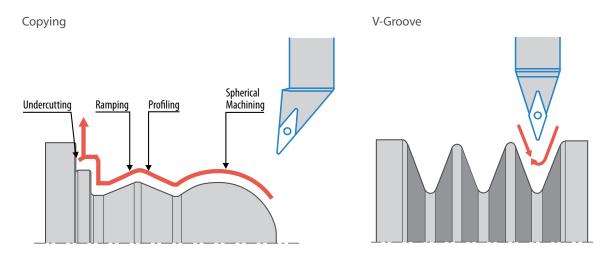


VC Chipbreaker

High Productivity Machining Various Shapes or Contours

Excellent Chip Control in a Wide Range of Machining Applications

High Stability for Copying in Difficult Chip Control Situations and V-shaped Grooving



Large Cutting Land with Handed Design

Stable chip control even in large depths of cut

Main Dot -

1

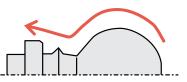
Stable chip control even at small depths and low feed rates

Insert Edge Geometry _____ Creates Stable Machining

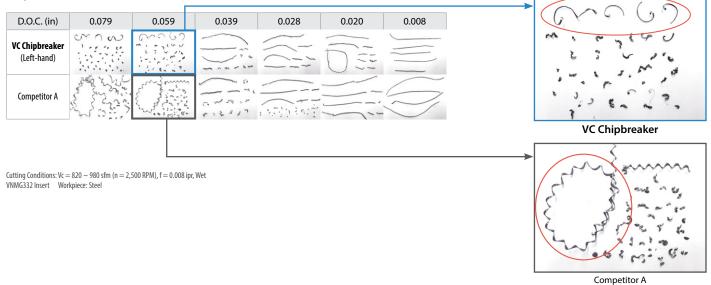
Stable edge strength and chip control by constant rake angle from corner radius to main cutting edge

Left-hand Shown

The VC Chipbreaker breaks chips into smaller pieces even at large depths of cut with smooth chip control preventing galling on the workpiece

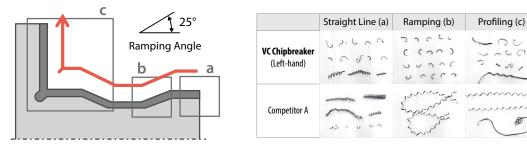


Chip Control Performance (Ball Stud) (In-house Evaluation)



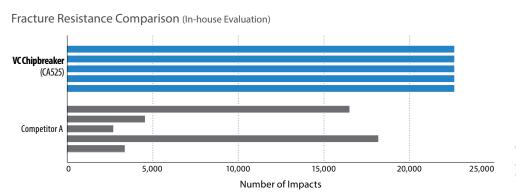
VC Chipbreaker provides smooth chip control for general turning (a), ramping (b) and profiling (c)

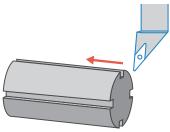
Chip Control Performance (Copying / Undercutting) (In-house Evaluation)



Cutting Conditions: Vc = $660 \sim 980$ sfm (n = 2,500 RPM), D.O.C. = 0.039", f = 0.008 ipr, Wet VNMG332 Insert Workpiece: Steel







Cutting Conditions: Vc = 660 sfm, D.O.C. = 0.020" f = 0.010 ipr, Interrupted, Wet VNMG332 Insert Workpiece: 4140 Steel Workpiece with 4 Grooves (0.197" Width Each)

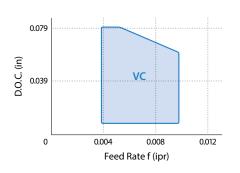
Stock Items

Shape (Right-handed Shown)	Description	Dimensions (in)			Cermet		MEGACOAT NANO Cermet		CVD Coated Carbide				
		I.C.	Thickness	Hole	Corner-R (rε)	TN610	TN620	PV710	PV720	CA510	CA515	CA525	CA530
	VNMG 331 [®] /√C	3/8	3/16	0.150	1/64	0	0	0	•	0	•	0	0
	VNMG 332 [®] /-VC				1/32	0	0	0	0	0	0	ß	0
Finishing-Medium	VNMG 333%-VC				3/64	0	0	0	0	0	0	0	0

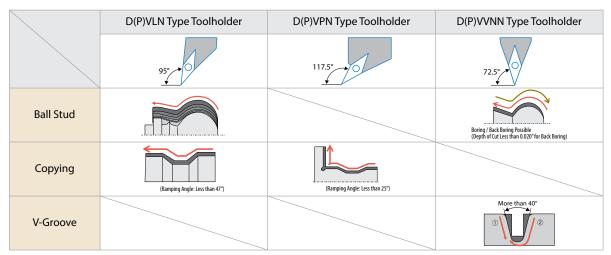
• : U.S. Stock (B) : U.S. Stock (R-hand Only)) : World Express (Shipping: 7-10 Business Days)

Cutting Conditions

Workpiece	Insert Grade	Min Recommendation - Max.						
workpiece	Insert Graue	Cutting Speed Vc (sfm)	D.O.C. (in)	Feed Rate f (ipr)				
Carbon Steel / Alloy Steel	TN610	430 - 760 - 1,120						
	TN620	330 - 660 - 980						
	PV710	460 - 920 - 1,247	-					
	PV720	430 - 820 - 1,120	0.012 - 0.039 - 0.079	0.003 0.007 0.010				
	CA510	590 - 850 - 1,120	0.012 - 0.039 - 0.079	0.003 - 0.007 - 0.010				
	CA515	490 - 790 - 1,050	-					
	CA525	460 - 720 - 980						
	CA530	390 - 590 - 820	1					



Application and Selection of Recommended Holders



Left-handed insert for normal mounting



KYOCERA Precision Tools

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