



Dimensions (mm)			
Size	d	t	d <sub>i</sub>
16	9.525	4.76	3.81
22	12.7	4.76	5.16

## Rhombic **35° Negative**

Workpiece		P	M	K	N	S	H									Machining types						
		●	●	●	●	●	●	●	●	●	●	●	●	●	●							
Steel		●	●														●	●	●			
Stainless steel			●																			
Cast iron				●																		
Non-ferrous metal					●																	
Heat resistant alloy, Titanium alloy						●																
Hardened steel							●															

Inserts	Designation	Cermet		Coated		Coated												Uncoated		Cutting Condition							
		CN1500	CN2000	CN2500	CC1500	CC2500	NC3215	NC3120	NC3225	NC3030	NC5330	NC6310	NC6315	NC9115	NC9125	NC9135	PC5300	PC5400	PC8105	PC8110	PC8115	PC9030	H01	H05	f <sub>n</sub> (mm/rev)	a <sub>p</sub> (mm)	
				●		●		●		●		●		●		●		●		●		●		●		●	
Medium to finishing  [Cermet]	VNMG 160404-VQ	●	●	●	●																				0.10~0.40	0.50~3.50	
	VNMG 160408-VQ	●		●	●																				0.12~0.45	0.50~3.50	
	VNMG 160412-VQ																								0.15~0.45	0.80~3.50	
Medium cutting 	VNMG 160404-HM						●		●																0.13~0.40	0.80~3.80	
	VNMG 160408-HM						●		●																0.20~0.45	0.80~4.50	
	VNMG 160412-HM								●																0.10~0.60	1.00~4.00	
Medium cutting 	VNMG 160404-MK												●												0.08~0.45	0.50~3.00	
	VNMG 160408-MK											●	●												0.10~0.50	1.00~3.50	
	VNMG 160412-MK												●												0.20~0.50	1.50~4.00	
Medium cutting 	VNMG 160404-MM													●	●	●					●	●			0.10~0.40	0.50~4.80	
	VNMG 160408-MM													●	●	●					●	●			0.12~0.45	0.50~4.80	
	VNMG 160412-MM																								0.15~0.60	0.50~4.00	
Medium cutting 	VNMG 160404-MP						●		●		●		●	●	●					●	●				0.10~0.40	0.40~3.50	
	VNMG 160408-MP						●		●		●	●	●	●	●					●	●				0.15~0.45	0.50~4.00	
	VNMG 160412-MP						●		●		●														0.15~0.50	0.80~4.50	
	VNMG 160616-MP																								0.18~0.50	1.00~4.50	
Medium cutting 	VNMG 160404-RM																								0.10~0.50	2.00~5.00	
	VNMG 160408-RM																								0.15~0.55	2.00~5.00	
	VNMG 160412-RM																								0.20~0.60	2.00~5.00	
Medium cutting 	VNMG 160404-VM	●								●	●					●	●								0.08~0.45	0.50~3.50	
	VNMG 160408-VM	●						●	●	●	●					●	●				●	●			0.10~0.50	1.00~4.00	
	VNMG 160412-VM																								0.20~0.50	1.50~4.00	
	VNMG 220404-VM																								0.08~0.45	1.00~5.00	
	VNMG 220408-VM																								0.10~0.50	1.50~5.00	
Medium cutting 	VNMG 160404-VP3																	●	●	●	●	●	●	●	0.05~0.30	0.10~3.00	
	VNMG 160408-VP3																	●	●	●	●	●	●	●	0.10~0.45	0.50~5.00	
	VNMG 160412-VP3																								0.20~0.40	0.50~3.50	

Cutting edge geometry **A52~A61**   
 Recommended chip breaker **B04~B11**   
 Code system **B26~B27**   
 ● : Stock item

Available tool holders			
Designation	Page	Designation	Page
MVJNR/L	B176	MVVNN	B177
MVQNR/L	B177	MVUNR/L	B203