

# Negative

## Negative Insert with Hole

How to read this page **B13**

Edge Prep.				N		S							
All PCD Items		Sharp Edge		Non-Ferrous Metals (with Interruption)		Non-Ferrous Metals (without Interruption)		Titanium Alloys (with Interruption)		Titanium Alloys (without Interruption)			
Insert	ANSI Part Number	ISO Part Number	Dimensions (in)					Angle (°)	No. of Edges	PCD		Toolholder Page	
			A	T	Ød	rε	S			KPD001	KPD010		
	CNMM 4305MSE	CNMM 120402M-SE	1/2	3/16	0.203	0.008	0.110	-	1	●	○	D8 D9 F77 F78	
	431MSE	120404M-SE	1/2	3/16	0.203	1/64	0.110	-	1	●	●		
	432MSE	120408M-SE	1/2	3/16	0.203	1/32	0.106	-	1	●	●		
	CNMM 4305MNE	CNMM 120402M-NE	1/2	3/16	0.203	0.008	0.201	-	1	○	○	D10 D11 F74 F80 F81	
	431MNE	120404M-NE	1/2	3/16	0.203	1/64	0.197	-	1	○	○		
	432MNE	120408M-NE	1/2	3/16	0.203	1/32	0.193	-	1	○	○		
	CNMM 4305M	CNMM 120402M	1/2	3/16	0.203	0.008	0.228	-	1	○	○		
	431M	120404M	1/2	3/16	0.203	1/64	0.228	-	1	○	○		
	432M	120408M	1/2	3/16	0.203	1/32	0.224	-	1	○	○		
	DNMM 4305MSE	DNMM 150402M-SE	1/2	3/16	0.203	0.008	0.110	-	1	○	○	D14 D15 D16 F74 F84 F85	
	431MSE	150404M-SE	1/2	3/16	0.203	1/64	0.102	-	1	○	○		
	432MSE	150408M-SE	1/2	3/16	0.203	1/32	0.087	-	1	○	○		
	DNMM 4305MNE	DNMM 150402M-NE	1/2	3/16	0.203	0.008	0.205	-	1	○	○	D18 D19 D20	
	431MNE	150404M-NE	1/2	3/16	0.203	1/64	0.197	-	1	○	○		
	432MNE	150408M-NE	1/2	3/16	0.203	1/32	0.181	-	1	○	○		
	DNMM 4305M	DNMM 150402M	1/2	3/16	0.203	0.008	0.232	-	1	○	○		
	431M	150404M	1/2	3/16	0.203	1/64	0.228	-	1	○	○		
	432M	150408M	1/2	3/16	0.203	1/32	0.213	-	1	○	○		
	TNMM 3305MSE	TNMM 160402M-SE	3/8	3/16	0.150	0.008	0.106	-	1	○	○	D22 D23 F87 F88	
	331MSE	160404M-SE	3/8	3/16	0.150	1/64	0.102	-	1	○	○		
	332MSE	160408M-SE	3/8	3/16	0.150	1/32	0.091	-	1	○	○		
	TNMM 3305MNE	TNMM 160402M-NE	3/8	3/16	0.150	0.008	0.126	-	1	○	○	D22 D23 F87 F88	
	331MNE	160404M-NE	3/8	3/16	0.150	1/64	0.122	-	1	○	○		
	332MNE	160408M-NE	3/8	3/16	0.150	1/32	0.110	-	1	○	○		
	TNMM 3305M	TNMM 160402M	3/8	3/16	0.150	0.008	0.150	-	1	○	○		
	331M	160404M	3/8	3/16	0.150	1/64	0.142	-	1	○	○		
	332M	160408M	3/8	3/16	0.150	1/32	0.130	-	1	○	○		
	VNMM 3305MSE	VNMM 160402M-SE	3/8	3/16	0.150	0.008	0.114	-	1	○	○	D22 D23 F87 F88	
	331MSE	160404M-SE	3/8	3/16	0.150	1/64	0.098	-	1	○	○		
	332MSE	160408M-SE	3/8	3/16	0.150	1/32	1/16	-	1	○	○		
	VNMM 3305MNE	VNMM 160402M-NE	3/8	3/16	0.150	0.008	0.185	-	1	○	○	D22 D23 F87 F88	
	331MNE	160404M-NE	3/8	3/16	0.150	1/64	0.165	-	1	○	○		
	332MNE	160408M-NE	3/8	3/16	0.150	1/32	0.134	-	1	○	○		
	VNMM 3305M	VNMM 160402M	3/8	3/16	0.150	0.008	0.209	-	1	○	○		
	331M	160404M	3/8	3/16	0.150	1/64	0.189	-	1	○	○		
	332M	160408M	3/8	3/16	0.150	1/32	0.157	-	1	○	○		
	WNMM 4305MSE	WNMM 080402M-SE	1/2	3/16	0.203	0.008	0.110	-	1	○	○	D22 D23 F87 F88	
	431MSE	080404M-SE	1/2	3/16	0.203	1/64	0.110	-	1	○	○		
	432MSE	080408M-SE	1/2	3/16	0.203	1/32	0.106	-	1	○	○		
	WNMM 4305MNE	WNMM 080402M-NE	1/2	3/16	0.203	0.008	0.197	-	1	○	○	D22 D23 F87 F88	
	431MNE	080404M-NE	1/2	3/16	0.203	1/64	0.197	-	1	○	○		
	WNMM 4305M	WNMM 080402M	1/2	3/16	0.203	0.008	0.228	-	1	○	○		
	431M	080404M	1/2	3/16	0.203	1/64	0.228	-	1	○	○		

GRADES	A
INSERTS	B
CBN & PCD	C
TOOLHOLDERS	D
SMALL TOOLS	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
HSK TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T