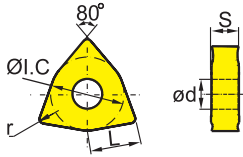


WN (Negative inserts)



😊 Good working condition 😐 Normal working condition ☹️ Bad working condition

Workpiece material	Steel (P)	Stainless steel (M)	Cast iron (K)	Non-ferrous metal (N)	Heat resistant alloy, Ti alloy (S)
Steel (P)	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊
Stainless steel (M)	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊
Cast iron (K)	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊
Non-ferrous metal (N)	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊
Heat resistant alloy, Ti alloy (S)	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊😊

Inserts shape	Type	Dimensions(mm)					Coated cemented carbide																Cermet	Coated cermet	Cemented carbide				
		L	ØI.C	S	ød	r	YBC151	YBC152	YBC251	YBC252	YBC351	YBC352	YBG102	YBG105	YBG202	YBG205	YBG212	YBG302	YBM151	YBM153	YBM215	YBM251				YBM253	YBS103	YBD052	YBD102
DF For finishing	WNMG06T304-DF	6.5	9.525	3.97	3.81	0.4	★																						
	WNMG06T308-DF	6.5	9.525	3.97	3.81	0.8	★	★																					
	WNMG06T312-DF	6.5	9.525	3.97	3.81	1.2	★	★																					
	WNMG060404-DF	6.5	9.525	4.76	3.81	0.4	★	●	★													○							
	WNMG060408-DF	6.5	9.525	4.76	3.81	0.8	★	●	★													●							
	WNMG060412-DF	6.5	9.525	4.76	3.81	1.2	★	●	○													○							
	WNMG080404-DF	8.7	12.7	4.76	5.16	0.4	★	●	○													○							
	WNMG080408-DF	8.7	12.7	4.76	5.16	0.8	★	●	★													●							
	WNMG080412-DF	8.7	12.7	4.76	5.16	1.2	○	○	○																				
WGF For finishing Wiper	WNMG060404-WGF	6.5	9.525	4.76	3.81	0.4	★													★									
	WNMG060408-WGF	6.5	9.525	4.76	3.81	0.8	★														★								
	WNMG080404-WGF	8.7	12.7	4.76	5.16	0.4	★														★								
	WNMG080408-WGF	8.7	12.7	4.76	5.16	0.8	★														★								
SF For finishing	WNMG06T304-SF	6.5	9.525	3.97	3.81	0.4																				○	★		
	WNMG06T308-SF	6.5	9.525	3.97	3.81	0.8																					○		
	WNMG06T312-SF	6.5	9.525	3.97	3.81	1.2																					○		
	WNMG060404-SF	6.5	9.525	4.76	3.81	0.4																					○	★	
	WNMG060408-SF	6.5	9.525	4.76	3.81	0.8																					○	★	
	WNMG080404-SF	8.7	12.7	4.76	5.16	0.4																					○	★	
	WNMG080408-SF	8.7	12.7	4.76	5.16	0.8																					○	★	
	WNMG080412-SF	8.7	12.7	4.76	5.16	1.2																					○		

★ Recommended grade (always stock available) ● Available grade (always stock available) ○ Make-to-order

Applicable tool



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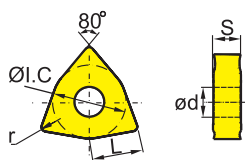
Insert code key → A50–A51

Grade selection reference → A19/A36–A48

Chipbreaker selection reference → A22–A35




Recommended cutting parameters → A241–A244

WN (Negative inserts)



😊 Good working condition 🤔 Normal working condition 😞 Bad working condition

Workpiece material	P Steel	M Stainless steel	K Cast iron	N Non-ferrous metal	S Heat resistant alloy, Ti alloy
P Steel	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊
M Stainless steel	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊
K Cast iron	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊
N Non-ferrous metal	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊
S Heat resistant alloy, Ti alloy	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊😊😊

Inserts shape	Type	Dimensions(mm)					Coated cemented carbide																Cermet Coated cermet	Cemented carbide													
		L	Ø1.C	S	ød	r	YBC151	YBC152	YBC251	YBC252	YBC351	YBC352	YBG102	YBG105	YBG202	YBG205	YBG212	YBG302	YBM151	YBM153	YBM215	YBM251			YBM253	YBS103	YBD052	YBD102	YBD152	YBD252	YNG151	YNG151C	YD101	YD201			
 For semi-finishing	WNMG060408-PM	6.5	9.525	4.76	3.81	0.8	★	●	○	○																											
	WNMG060412-PM	6.5	9.525	4.76	3.81	1.2	○	○																				★	★								
	WNMG080404-PM	8.7	12.7	4.76	5.16	0.4	○	●	○	○																											
	WNMG080408-PM	8.7	12.7	4.76	5.16	0.8	★	●	★	●																			★	★	★						
	WNMG080412-PM	8.7	12.7	4.76	5.16	1.2	★	●	★	●																			★	★	★						
	WNMG080416-PM	8.7	12.7	4.76	5.16	1.6				○																			○	○							
	WNMG080608-PM	8.7	12.7	6.35	5.16	0.8				○																											
 For semi-finishing	WNMG06T304-DM	6.5	9.525	3.97	3.81	0.4				○																											
	WNMG06T308-DM	6.5	9.525	3.97	3.81	0.8				○	○																										
	WNMG06T312-DM	6.5	9.525	3.97	3.81	1.2				○																											
	WNMG060408-DM	6.5	9.525	4.76	3.81	0.8	★	●	★	●													●														
	WNMG060412-DM	6.5	9.525	4.76	3.81	1.2				○	○																										
	WNMG080404-DM	8.7	12.7	4.76	5.16	0.4	★	●	★	○					○								○														
	WNMG080408-DM	8.7	12.7	4.76	5.16	0.8	★	●	★	●													○														
	WNMG080412-DM	8.7	12.7	4.76	5.16	1.2	★	●	★														○														
	WNMG080416-DM	8.7	12.7	4.76	5.16	1.6				○																											
 For semi-finishing	WNMG06T304-EM	6.5	9.525	3.97	3.81	0.4								○	★						○			★													
	WNMG06T308-EM	6.5	9.525	3.97	3.81	0.8								○	★							○			★												
	WNMG06T312-EM	6.5	9.525	3.97	3.81	1.2								○	★							○			★												
	WNMG060404-EM	6.5	9.525	4.76	3.81	0.4									○	★						○			★												
	WNMG060408-EM	6.5	9.525	4.76	3.81	0.8									●	★						○			★												
	WNMG080404-EM	8.7	12.7	4.76	5.16	0.4									●	★						★			★												
	WNMG080408-EM	8.7	12.7	4.76	5.16	0.8									●	★						★			★												
	WNMG080412-EM	8.7	12.7	4.76	5.16	1.2									●	★						★			★												

★ Recommended grade (always stock available) ● Available grade (always stock available) ○ Make-to-order

General turning

Cemented carbide and cermet inserts

Applicable tool



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Insert code key

A50-A51

Grade selection reference

A19/A36-A48

Chipbreaker selection reference

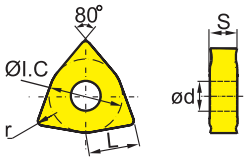
A22-A35

Recommended cutting parameters

A241-A244







WN (Negative inserts)



😊 Good working condition 😐 Normal working condition 😞 Bad working condition

Workpiece material	YBC151	YBC152	YBC251	YBC252	YBC351	YBC352	YBG102	YBG105	YBG202	YBG205	YBG212	YBG302	YBM151	YBM153	YBM215	YBM251	YBM253	YBS103	YBD052	YBD102	YBD152	YBD252	YNG151	YNG151C	YD101	YD201	
P Steel	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊	😊😊😊😊😊😊😊😊😊😊
M Stainless steel						😊😊	😊😊	😊😊	😊😊	😊😊	😊😊	😊😊	😊😊	😊😊	😊😊	😊😊	😊😊	😊😊	😊😊	😊😊	😊😊	😊😊	😊😊	😊😊	😊😊	😊😊	😊😊
K Cast iron																				😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊
N Non-ferrous metal																									😊😊	😊😊	
S Heat resistant alloy, Ti alloy						😊😊	😊😊			😊😊									😊😊							😊😊	

Inserts shape	Type	Dimensions(mm)					Coated cemented carbide																	Cermet	Coated cermet	Cemented carbide																
		L	ØI.C	S	ød	r	YBC151	YBC152	YBC251	YBC252	YBC351	YBC352	YBG102	YBG105	YBG202	YBG205	YBG212	YBG302	YBM151	YBM153	YBM215	YBM251	YBM253				YBS103	YBD052	YBD102	YBD152	YBD252	YNG151	YNG151C	YD101	YD201							
	WNMG080408-NM	8.7	12.7	4.76	5.16	0.8																																				
	WNMG080412-NM	8.7	12.7	4.76	5.16	1.2																																				
For semi-finishing																																										
	WNMG060408-DR	6.5	9.525	4.76	3.81	0.8	○	○	○																																	
	WNMG060412-DR	6.5	9.525	4.76	3.81	1.2			○	○	○																															
	WNMG080408-DR	8.7	12.7	4.76	5.16	0.8	○	○	★	○																																
	WNMG080412-DR	8.7	12.7	4.76	5.16	1.2	○	○	★	○																																
For roughing																																										
	WNMG080408-SNR	8.7	12.7	4.76	5.16	0.8																																				
	WNMG080412-SNR	8.7	12.7	4.76	5.16	1.2																																				
For roughing																																										
	WNMA06T308	6.5	9.525	3.97	3.81	0.8																																				
	WNMA060404	6.5	9.525	4.76	3.81	0.4																																				
	WNMA060408	6.5	9.525	4.76	3.81	0.8																																				
	WNMA060412	6.5	9.525	4.76	3.81	1.2																																				
	WNMA080404	8.7	12.7	4.76	5.16	0.4																																				
	WNMA080408	8.7	12.7	4.76	5.16	0.8																																				
	WNMA080412	8.7	12.7	4.76	5.16	1.2																																				
	WNMA080416	8.7	12.7	4.76	5.16	1.6																																				

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

Applicable tool



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