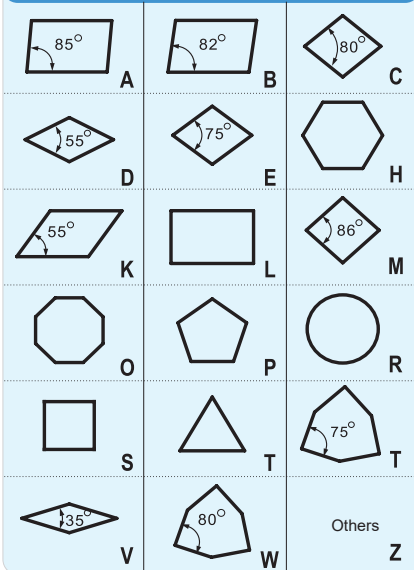
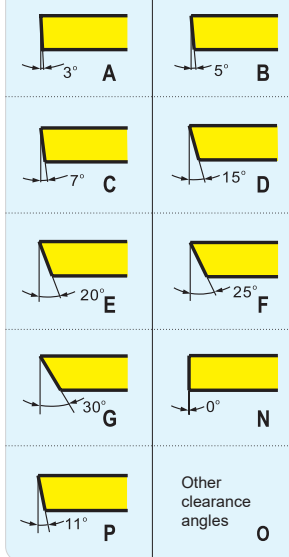


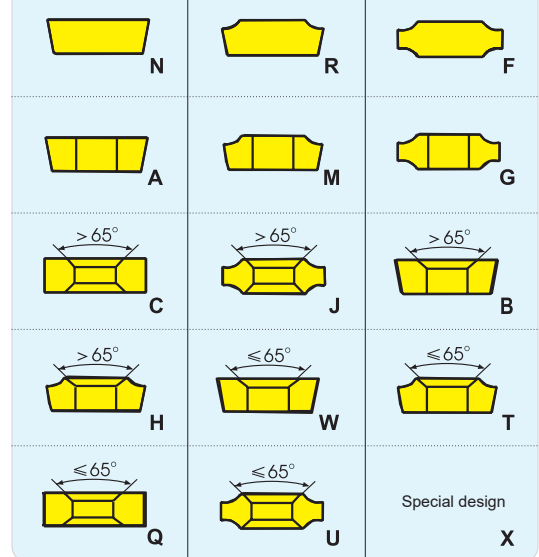
Insert shape



Major cutting edge Clearance angle

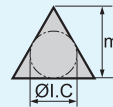
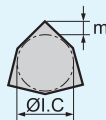


Chip-breaker and/or fixing type



T N M G

Tolerances, inch



Letter Symbol	Tolerances in inches			Inscribed circle diameter	Tolerances for M		Tolerances for d	
	m	s	d		Class M	Class U	Class M.J.K.L	Class U
A	±0.0002	±0.001	±0.0010	0.250	±0.003	±0.005	±0.002	±0.003
F	±0.0002	±0.001	±0.0005	0.375	±0.003	±0.005	±0.002	±0.003
C	±0.0005	±0.001	±0.0010	0.500	±0.005	±0.008	±0.003	±0.005
H	±0.0005	±0.001	±0.0005	0.625	±0.006	±0.011	±0.004	±0.007
E	±0.0010	±0.001	±0.0010	0.750	±0.006	±0.011	±0.004	±0.007
G	±0.0010	±0.005	±0.0010	1.000	±0.007	±0.015	±0.005	±0.010
J	±0.0002	±0.01	±0.002	Insert shape D				
K	±0.0005	±0.01	±0.02	Inscribed circle diameter	Tolerances for M		Tolerances for M	
L	±0.0010	±0.001	±0.002					
M	±0.003	±0.005	±0.002					
N	±0.003	±0.001	±0.002					
U	±0.005	±0.005	±0.003					
	±0.015		±0.010	Inscribed circle diameter	Tolerances for M		Tolerances for M	

Inscribed circle diameter

Code(inch)	2	3	4	5	6	8
Inscribed circle diameter(inch)	0.250	0.375	0.500	0.625	0.750	1.000

Nose radius

Code(inch)	0	1	2	3	4	5	6
Nose radius (inch)	0.008	0.016	0.031	0.047	0.063	0.079	0.094

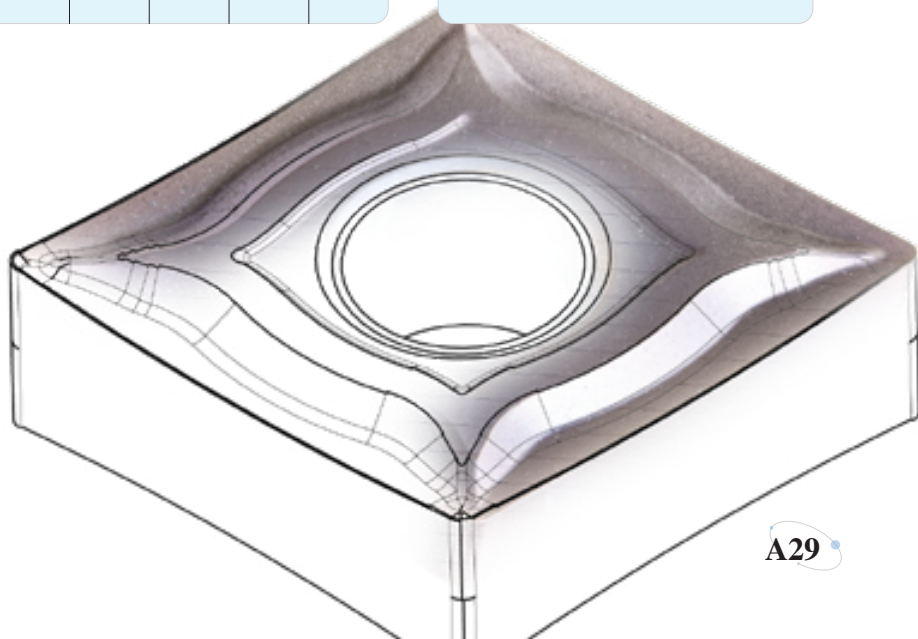
4 3 2 - DM

Insert thickness

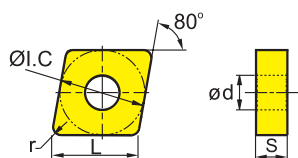
Code(inch)	2	3	4	5	6
Inscribed radius diameter(inch)	0.125	0.187	0.250	0.313	0.375

Chip-breakers code

position 8 denotes the cutting properties & chipbreakers of inserts



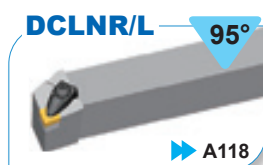
CN ☐ ☐ (Negative inserts)



😊 Good working conditions 😐 General working conditions 😞 Adverse working conditions

[illegible][illegible]

● Always stock available ○ Produce according to order



Applicable tool

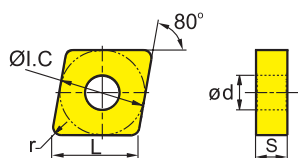
[illegible]

● Always stock available ○ Produce according to order



A31

CN ☐ ☐ (Negative inserts)

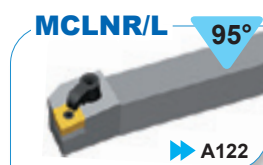
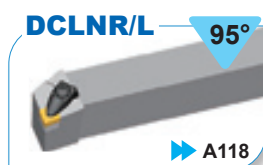


😊 Good working conditions 😐 General working conditions 😞 Adverse working conditions

		Good working conditions						General working conditions			Favorable working conditions							
Workpiece material	P Steel		😊	😊	😊	😊	😊	😊	😊	😊							😊	😊
	M Stainless steel						😊	😊	😊		😊	😊	😊	😊			😊	😊
	K Cast iron														😊	😊	😊	
	N Ferrite materials																😊	😊
	S Heat-resistant steel						😊	😊		😊							😊	

[illegible]

● Always stock available ○ Produce according to order



Applicable tool

Workplace material	Good working conditions					General working conditions					Harsh working conditions				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
P Steel	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M Stainless steel					1		1	1			1	1	1	1	1
K Cast iron												1	1	1	1
N Ferrite materials														1	1
S Heat-resistant steel					1	1		1				1			1

[illegible]

DCLNR/L **95°**



A118

MCLNR/L **95°**



A122

PCLNR/L **95°**

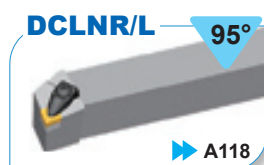


A131

A33

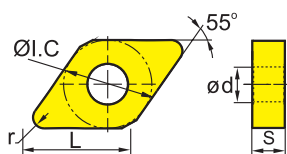
[illegible][illegible]

● Always stock available ○ Produce according to order



Applicable tool

DN ☐ ☐ (Negative inserts)

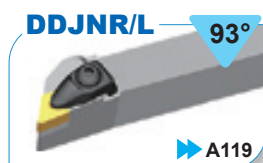


😊 Good working conditions 😐 General working conditions 😞 Adverse working conditions

		Good working conditions			General working conditions			Favorable working conditions				
Workpiece material	P Steel		😊	😊	😊	😊	😊	😊			😊	😊
	M Stainless steel					😊	😊	😊	😊		😊	😊
	K Cast iron									😊	😊	😊
	N Ferrite materials											😊
	S Heat-resistant steel				😊	😊		😊				😊

[illegible]

● Always stock available ○ Produce according to order

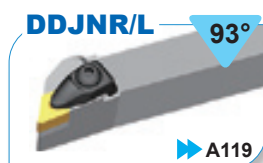


Applicable tool

🙄 Adverse working conditions

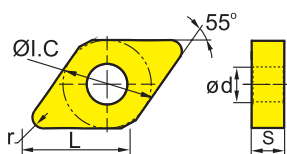
[illegible][illegible]

● Always stock available ○ Produce according to order



Applicable tool

|| DN ☐ ☐ (Negative inserts)

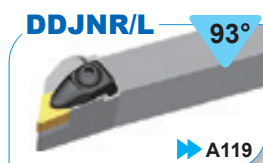


😊 Good working conditions 😐 General working conditions 😞 Adverse working conditions

		Good working conditions			General working conditions			Favorable working conditions				
Workpiece material	P Steel		😊	😊	😊	😊	😊	😊			😊	😊
	M Stainless steel					😊	😊	😊	😊	😊	😊	😊
	K Cast iron									😊	😊	😊
	N Ferrite materials											😊
	S Heat-resistant steel			😊	😊		😊					😊

[illegible]

● Always stock available ○ Produce according to order



Applicable tool

[illegible]

Semi-finishing

EM



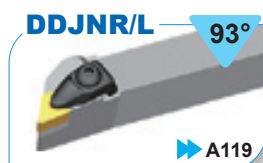
Semi-finishing

NM



Semi-finishing

● Always stock available ○ Produce according to order

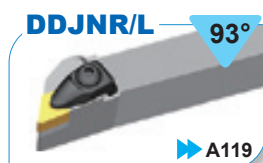
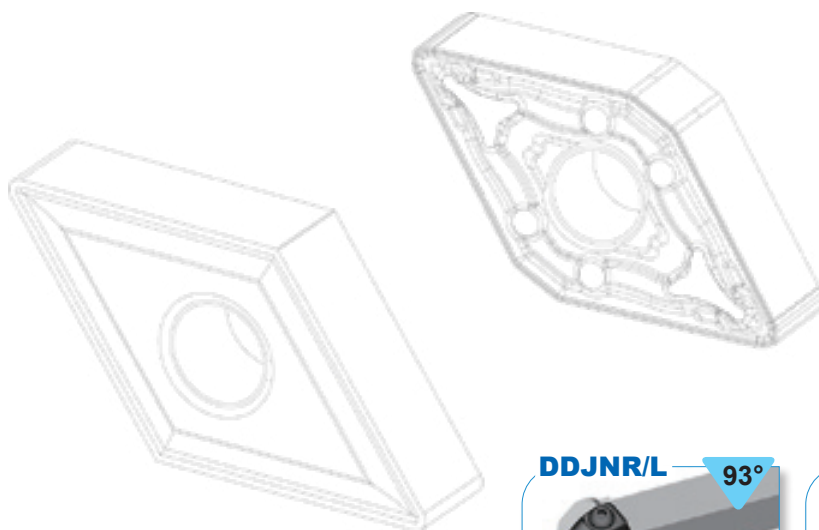


A39

[illegible]

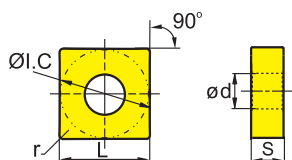
Inserts shape	Type	Dimensions(inch)					Coated cemented carbide																Cermets Coated cermet	Cemented carbide						
		L	ØI.C	S	ød	r	YBC103	YBC203	YBC152	YBC252	YBC352	YBG102	YBG105	YBG202	YBG205	YBG212	YBG302	YBM153	YBM215	YBM251	YBM253	YBS103			YBD052	YBD102	YBD152	YNG151	YNG151C	YD101
 Roughing	DNMG442-SNR	0.610	0.500	0.250	0.203	0.031						○	●		○							○								
	DNMG443-SNR	0.610	0.500	0.250	0.203	0.047						○	●		○							○								
 Without chipbreaker (flat top)	DNMA432	0.610	0.500	0.187	0.203	0.031																	●	●	○					
	DNMA441	0.610	0.500	0.250	0.203	0.016																	○	○	○					
	DNMA442	0.610	0.500	0.250	0.203	0.031																	○	●	●					
	DNMA443	0.610	0.500	0.250	0.203	0.047																	○	○	○					
	DNMA444	0.610	0.500	0.250	0.203	0.063																			○	○				

● Always stock available ○ Produce according to order



Applicable tool

|| SN ☐ ☐ (Negative inserts)



😊 Good working conditions 😐 General working conditions 😞 Adverse working conditions

		Good working conditions			General working conditions			Favorable working conditions		
Workpiece material	P Steel	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊
	M Stainless steel				😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊
	K Cast iron							😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊
	N Ferrite materials									😊😊😊😊😊😊
	S Heat-resistant steel				😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊

[illegible]

● Always stock available ○ Produce according to order



Applicable tool

(Negative inserts)



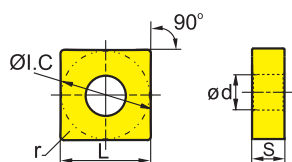
A

● Always stock available ○ Produce according to order



A43

SN ☐ ☐ (Negative inserts)



😊 Good working conditions 😐 General working conditions 😞 Adverse working conditions

		Good working conditions						General working conditions			Favorable working conditions							
Workpiece material	P Steel		😊	😊	😊	😊	😊	😊	😊	😊							😊	😊
	M Stainless steel						😊	😊	😊		😊	😊	😊	😊			😊	😊
	K Cast iron														😊	😊	😊	
	N Ferrite materials																😊	😊
	S Heat-resistant steel						😊	😊		😊							😊	

Inserts shape	Type	Dimensions(inch)					Coated cemented carbide																	Cermet	Coated cermet	Cementec carbide				
		L	ØI.C	S	ød	r	YBC103	YBC203	YBC152	YBC252	YBC352	YBG102	YBG105	YBG202	YBG205	YBG212	YBG302	YBM153	YBM215	YBM251	YBM253	YBS103	YBD052				YBD102	YBD152	YNG151	YNG151C
DM  Semi-finishing	SNMG321-DM	0.375	0.375	0.125	0.150	0.016			○	○																				
	SNMG322-DM	0.375	0.375	0.125	0.150	0.031			○	○																				
	SNMG431-DM	0.500	0.500	0.187	0.203	0.016			●	○																				
	SNMG432-DM	0.500	0.500	0.187	0.203	0.031				○																	○			
	SNMG433-DM	0.500	0.500	0.187	0.203	0.047			●	●																				
	SNMG434-DM	0.500	0.500	0.187	0.203	0.063				○																				
	SNMG542-DM	0.625	0.625	0.250	0.250	0.031			○	○																				
	SNMG543-DM	0.625	0.625	0.250	0.250	0.047			●	●																				
	SNMG544-DM	0.625	0.625	0.250	0.250	0.063				○																				
	SNMG643-DM	0.750	0.750	0.250	0.313	0.047			○	○																				
SNMG644-DM	0.750	0.750	0.250	0.313	0.063				○																					
EM  Semi-finishing	SNMG431-EM	0.500	0.500	0.187	0.203	0.016							●	●				○		●										
	SNMG432-EM	0.500	0.500	0.187	0.203	0.031								●	●			○		●										
	SNMG433-EM	0.500	0.500	0.187	0.203	0.047								●	●			○		●										
	SNMG434-EM	0.500	0.500	0.187	0.203	0.063								○	●			○		●										
	SNMG543-EM	0.625	0.625	0.250	0.250	0.047								●	●			○		●										
	SNMG544-EM	0.625	0.625	0.250	0.250	0.063								○	●			○		●										
NM  Semi-finishing	SNMG432-NM	0.500	0.500	0.187	0.203	0.031					●										○							○		

● Always stock available ○ Produce according to order



Applicable tool

[illegible][illegible]

DSBNR/L **75°**



A 3D rendering of a grey extruder with a black nozzle and a yellow tip. A blue arrow points to the right, indicating the direction of extrusion.

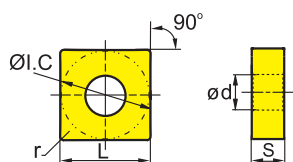
A119

PSKNR/L **75°**



A132

|| SN ☐ ☐ (Negative inserts)



😊 Good working conditions 😐 General working conditions 😞 Adverse working conditions

		Good working conditions			General working conditions			Favorable working conditions				
Workpiece material	P Steel		😊	😊	😊	😊	😊	😊			😊	😊
	M Stainless steel					😊	😊	😊	😊	😊	😊	😊
	K Cast iron									😊	😊	😊
	N Ferrite materials											😊
	S Heat-resistant steel			😊	😊		😊			😊		😊

[illegible]

● Always stock available ○ Produce according to order



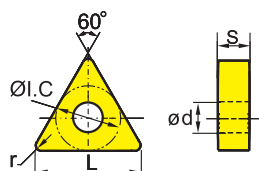
[illegible]

Inserts shape	Type	Dimensions(inch)					Coated cemented carbide																	Cermets	Coated cermets	Cemented carbides			
		L	Ø.L.C	S	ød	r	YBC103	YBC203	YBC152	YBC252	YBC352	YBG102	YBG105	YBG202	YBG205	YBG212	YBG302	YBM153	YBM215	YBM251	YBM253	YBS103	YBD052				YBD102	YBD152	YNG151
 Conventional chipbreaker	SNMG432	0.500	0.500	0.187	0.203	0.031														●					○				
	SNMG433	0.500	0.500	0.187	0.203	0.047				○																			
 Without chipbreaker (flat top)	SNMA321	0.375	0.375	0.125	0.150	0.016																			○				
	SNMA322	0.375	0.375	0.125	0.150	0.031																	○	○					
	SNMA431	0.500	0.500	0.187	0.203	0.016																	○						
	SNMA432	0.500	0.500	0.187	0.203	0.031																	○	●	●				●
	SNMA434	0.500	0.500	0.187	0.203	0.063																	○	○	●				
	SNMA542	0.625	0.625	0.250	0.250	0.031																				●			
	SNMA643	0.750	0.750	0.250	0.313	0.047																	○	○	●				
	SNMA644	0.750	0.750	0.250	0.313	0.063																		●	●				

● Always stock available ○ Produce according to order



Applicable tool

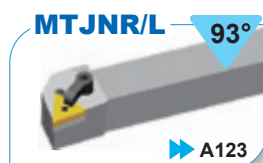
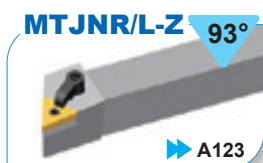
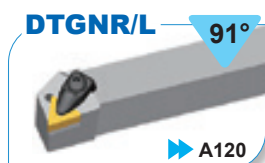


🙄 Adverse working conditions

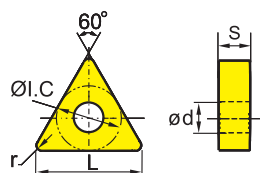
		Good working conditions						General working conditions						Favorable working conditions					
Workpiece material	P Steel		😊	😊	😊	😊	😊	😊		😊	😊						😊	😊	
	M Stainless steel							😊		😊	😊		😊	😊	😊	😊		😊	
	K Cast iron															😊	😊	😊	
	N Ferrite materials																	😊	
	S Heat-resistant steel							😊	😊		😊							😊	

Inserts shape	Type	Dimensions(inch)					Coated cemented carbide																	Cermetal	Coated cermet	Cemented carbide				
		L	ØI.C	S	ød	r	YBC103	YBC203	YBC152	YBC252	YBC352	YBG102	YBG105	YBG202	YBG205	YBG212	YBG302	YBM153	YBM215	YBM251	YBM253	YBS103	YBD052				YBD102	YBD152	YNG151	YNG151C
PM  Semi-finishing	TNMG221-PM	0.433	0.250	0.125	0.089	0.016			●	○																				
	TNMG222-PM	0.433	0.250	0.125	0.089	0.031			●	○																				
	TNMG331-PM	0.650	0.375	0.187	0.150	0.016			●	●															●	●				
	TNMG332-PM	0.650	0.375	0.187	0.150	0.031			●	●															●	●				
	TNMG333-PM	0.650	0.375	0.187	0.150	0.047			●	○															●	●				
	TNMG432-PM	0.866	0.500	0.187	0.203	0.031			●	○															●	○				
	TNMG433-PM	0.866	0.500	0.187	0.203	0.047			●	○															○	○				
	TNMG434-PM	0.866	0.500	0.187	0.203	0.063				○																○				
XM  Semi-finishing	TNMG331-XM	0.650	0.375	0.187	0.150	0.016	●	●																						
	TNMG332-XM	0.650	0.375	0.187	0.150	0.031	●	●																						
	TNMG333-XM	0.650	0.375	0.187	0.150	0.047	●	●																						
	TNMG334-XM	0.650	0.375	0.187	0.150	0.063	●	●																						
	TNMG432-XM	0.866	0.500	0.187	0.203	0.031	●	●																						
	TNMG433-XM	0.866	0.500	0.187	0.203	0.047	●	●																						
	TNMG434-XM	0.866	0.500	0.187	0.203	0.063	●	●																						
DM  Semi-finishing	TNMG222-DM	0.433	0.250	0.125	0.089	0.031			○	○																				
	TNMG331-DM	0.650	0.375	0.187	0.150	0.016			●	●			○													●				
	TNMG332-DM	0.650	0.375	0.187	0.150	0.031			●	●			●						●							○				
	TNMG333-DM	0.650	0.375	0.187	0.150	0.047			○	●																				
	TNMG431-DM	0.866	0.500	0.187	0.203	0.016			●	●									○											
	TNMG432-DM	0.866	0.500	0.187	0.203	0.031			●	●									○							○				
	TNMG433-DM	0.866	0.500	0.187	0.203	0.047			○	○																				
	TNMG434-DM	0.866	0.500	0.187	0.203	0.063			○	○																				

● Always stock available ○ Produce according to order



Applicable tool

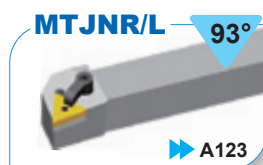
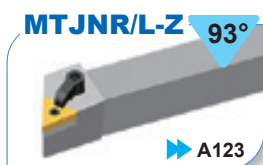
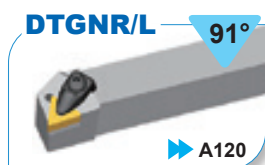


😊 Good working conditions 😐 General working conditions 😞 Adverse working conditions

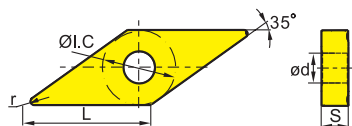
[illegible]

Inserts shape	Type	Dimensions(inch)					Coated cemented carbide																Cermet	Coated cermet	Cemented carbide				
		L	ØI.C	S	ød	r	YBC103	YBC203	YBC152	YBC252	YBC352	YBG102	YBG105	YBG202	YBG205	YBG212	YBG302	YBM153	YBM215	YBM251	YBM253	YBS103	YBD052	YBD102	YBD152	YNG151	YNG151C	YD101	YD201
EM  Semi-finishing	TNMG331-EM	0.650	0.375	0.187	0.150	0.016							●	●				○		●									
	TNMG332-EM	0.650	0.375	0.187	0.150	0.031							●	●				○		●									
	TNMG333-EM	0.650	0.375	0.187	0.150	0.047							○	●				○		●									
	TNMG432-EM	0.866	0.500	0.187	0.203	0.031							●	●				○		●									
	TNMG433-EM	0.866	0.500	0.187	0.203	0.047							○	●				○		●									
	TNMG434-EM	0.866	0.500	0.187	0.203	0.063							○	●				○		●									
DR  Roughing	TNMG332-DR	0.650	0.375	0.187	0.150	0.031			○	○														○	○				
	TNMG333-DR	0.650	0.375	0.187	0.150	0.047			○	○														●	●				
	TNMG432-DR	0.866	0.500	0.187	0.203	0.031				○														○					
	TNMG433-DR	0.866	0.500	0.187	0.203	0.047				○															○				
ER  Roughing	TNMG332-ER	0.650	0.375	0.187	0.150	0.031														●									
	TNMG333-ER	0.650	0.375	0.187	0.150	0.047															●								
	TNMG432-ER	0.866	0.500	0.187	0.203	0.031															●								
	TNMG433-ER	0.866	0.500	0.187	0.203	0.047															●								
SNR  Roughing	TNMG332-SNR	0.650	0.375	0.187	0.150	0.031					○	●			○						○								
 Without chipbreaker (flat top)	TNMA331	0.650	0.375	0.187	0.150	0.016																○	●	●					
	TNMA332	0.650	0.375	0.187	0.150	0.031																●	●	●					○
	TNMA333	0.650	0.375	0.187	0.150	0.047																●	○	○					
	TNMA334	0.650	0.375	0.187	0.150	0.063																	○		○				
	TNMA431	0.866	0.500	0.187	0.203	0.016																	○	○	○				
	TNMA432	0.866	0.500	0.187	0.203	0.031																	○	○	○				
	TNMA544	1.083	0.625	0.250	0.250	0.063																			○				

● Always stock available ○ Produce according to order

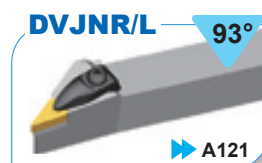
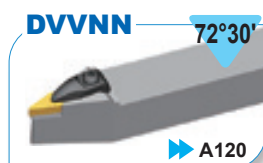


Applicable tool

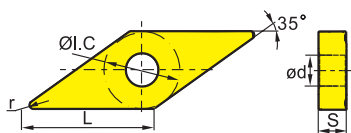
[illegible]

Inserts shape	Type	Dimensions(inch)					Coated cemented carbide																Cermert	Coated cermet	Cemented carbide				
		L	ØI.C	S	ød	r	YBC103	YBC203	YBC152	YBC252	YBC352	YBG102	YBG105	YBG202	YBG205	YBG212	YBG302	YBM153	YBM215	YBM251	YBM253	YBS103				YBD052	YBD102	YBD152	YNG151
 Finishing	VNMG331-XF	0.654	0.375	0.187	0.150	0.016	●	●																					
	VNMG332-XF	0.654	0.375	0.187	0.150	0.031	●	●																					
	VNMG333-XF	0.654	0.375	0.187	0.150	0.047	●	●																					
 Finishing	VNMG331-DF	0.654	0.375	0.187	0.150	0.016			●	●									●										
	VNMG332-DF	0.654	0.375	0.187	0.150	0.031			●	○																			
 Finishing	VNMG331-EF	0.654	0.375	0.187	0.150	0.016								○	●				○										
	VNMG332-EF	0.654	0.375	0.187	0.150	0.031								○	●				○										
	VNMG333-EF	0.654	0.375	0.187	0.150	0.047								○	●				○										
 Finishing	VNEG331-NF	0.654	0.375	0.187	0.150	0.016						○																	○
	VNEG332-NF	0.654	0.375	0.187	0.150	0.031						○																	○
 Finishing	VNEG332-NGF	0.654	0.375	0.187	0.150	0.016						○	●			○													
	VNEG333-NGF	0.654	0.375	0.187	0.150	0.031						○	●			○													
 Finishing	VNMG331-SF	0.654	0.375	0.187	0.150	0.016						○															○	●	
	VNMG332-SF	0.654	0.375	0.187	0.150	0.031						○															○		
 Semi-finishing	VNMG331-PM	0.654	0.375	0.187	0.150	0.016			●	○																○			
	VNMG332-PM	0.654	0.375	0.187	0.150	0.031			●	○															●	●			
	VNMG333-PM	0.654	0.375	0.187	0.150	0.047				○															○	○			

● Always stock available ○ Produce according to order



A51

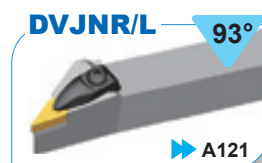
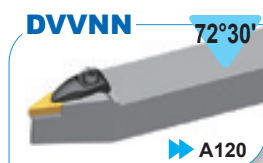


😊 Good working conditions 😐 General working conditions 😞 Adverse working conditions

Workpiece material	Good working conditions			General working conditions			Favorable working conditions		
	1	2	3	4	5	6	7	8	9
P Steel	😊	😊	😊	😊	😊	😊	😊	😊	😊
M Stainless steel				😊	😊	😊	😊	😊	😊
K Cast iron								😊	😊
N Ferrite materials									😊
S Heat-resistant steel				😊	😊	😊			😊

[illegible]

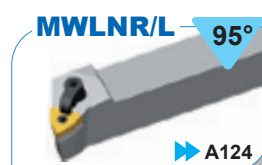
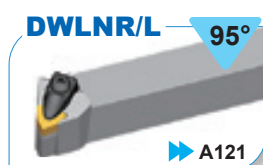
● Always stock available ○ Produce according to order



Applicable tool

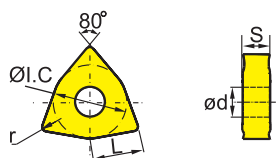
[illegible][illegible]

● Always stock available ○ Produce according to order



A53

WN (Negative inserts)

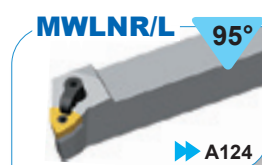
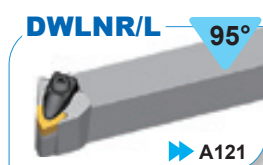


😊 Good working conditions 😐 General working conditions 😞 Adverse working conditions

		Good working conditions						General working conditions			Favorable working conditions							
Workpiece material	P Steel		😊	😊	😊	😊	😊	😊	😊	😊	😊						😊	😊
	M Stainless steel							😊	😊	😊	😊	😊	😊	😊			😊	😊
	K Cast iron														😊	😊	😊	
	N Ferrite materials																😊	😊
	S Heat-resistant steel							😊	😊		😊						😊	

[illegible]

● Always stock available ○ Produce according to order



Applicable tool

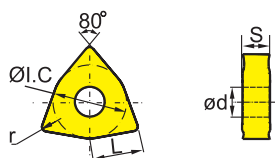


Inserts shape	Type	Dimensions(inch)					Coated cemented carbide																Cermet	Coated cermet	Cemented carbide				
		L	ØI.C	S	ød	r	YBC103	YBC203	YBC152	YBC252	YBC352	YBG102	YBG105	YBG202	YBG205	YBG212	YBG302	YBM153	YBM215	YBM251	YBM253	YBS103			YBD052	YBD102	YBD152	YNG151	YNG151C
PM  Semi-finishing	WNMG332-PM	0.256	0.375	0.187	0.150	0.031			●	○														●	●				
	WNMG333-PM	0.256	0.375	0.187	0.150	0.047			○	○														●	●				
	WNMG431-PM	0.343	0.500	0.187	0.203	0.016			○	○																			
	WNMG432-PM	0.343	0.500	0.187	0.203	0.031			●	●														●	●				
	WNMG433-PM	0.343	0.500	0.187	0.203	0.047			●	●														●	●				
	WNMG434-PM	0.343	0.500	0.187	0.203	0.063				○														○	○				
	WNMG442-PM	0.343	0.500	0.250	0.203	0.031				○																			
XM  Semi-finishing	WNMG331-XM	0.256	0.375	0.187	0.150	0.016	●	●																					
	WNMG332-XM	0.256	0.375	0.187	0.150	0.031	●	●																					
	WNMG333-XM	0.256	0.375	0.187	0.150	0.047	●	●																					
	WNMG431-XM	0.343	0.500	0.187	0.203	0.016	●	●																					
	WNMG432-XM	0.343	0.500	0.187	0.203	0.031	●	●																					
	WNMG433-XM	0.343	0.500	0.187	0.203	0.047	●	●																					
	WNMG434-XM	0.343	0.500	0.187	0.203	0.063	●	●																					
EM  Semi-finishing	WNMG3(2.5)1-EM	0.256	0.375	0.156	0.150	0.016							○	●			○		●										
	WNMG3(2.5)2-EM	0.256	0.375	0.156	0.150	0.031							○	●			○		●										
	WNMG3(2.5)3-EM	0.256	0.375	0.156	0.150	0.047							○	●			○		●										
	WNMG331-EM	0.256	0.375	0.187	0.150	0.016							○	●				○		●									
	WNMG332-EM	0.256	0.375	0.187	0.150	0.031							●	●				○		●									
	WNMG431-EM	0.343	0.500	0.187	0.203	0.016							●	●				○		●									
	WNMG432-EM	0.343	0.500	0.187	0.203	0.031							●	●				○		●									
	WNMG433-EM	0.343	0.500	0.187	0.203	0.047							●	●				○		●									

● Always stock available ○ Produce according to order



A55

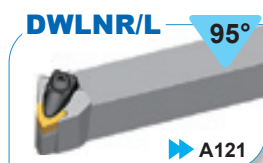


😊 Good working conditions 😐 General working conditions 😞 Adverse working conditions

		Good working conditions			General working conditions			Favorable working conditions			
Workpiece material	P Steel	😊😊😊😊😊😊	😊😊😊😊😊😊		😊😊😊😊😊😊					😊😊😊😊😊😊	😊😊😊😊😊😊
	M Stainless steel				😊😊😊😊😊😊	😊😊😊😊😊😊		😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊	😊😊😊😊😊😊
	K Cast iron									😊😊😊😊😊😊	😊😊😊😊😊😊
	N Ferrite materials										😊😊😊😊😊😊
	S Heat-resistant steel				😊😊😊😊😊😊	😊😊😊😊😊😊		😊😊😊😊😊😊		😊😊😊😊😊😊	😊😊😊😊😊😊

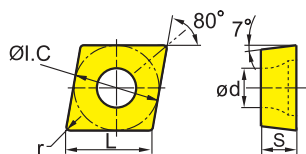
Inserts shape	Type	Dimensions(inch)					Coated cemented carbide																Cermet	Coated cermet	Cementec carbide				
		L	ØI.C	S	ød	r	YBC103	YBC203	YBC152	YBC252	YBC352	YBG102	YBG105	YBG202	YBG205	YBG212	YBG302	YBM153	YBM215	YBM251	YBM253	YBS103				YBD052	YBD102	YBD152	
 Semi-finishing	WNMG431-NM	0.343	0.500	0.187	0.203	0.016						○											○						
	WNMG432-NM	0.343	0.500	0.187	0.203	0.031						○											○						○
	WNMG433-NM	0.343	0.500	0.187	0.203	0.047						○											○						○
 Roughing	WNMG332-DR	0.256	0.375	0.187	0.150	0.031			○	○															○				
	WNMG333-DR	0.256	0.375	0.187	0.150	0.047				○															○	○			
	WNMG432-DR	0.343	0.500	0.187	0.203	0.031			○	●	●														●	●			
	WNMG433-DR	0.343	0.500	0.187	0.203	0.047			○	●	●														●	●			
	WNMG434-DR	0.343	0.500	0.187	0.203	0.063				○															○	○			
 Roughing	WNMG432-SNR	0.343	0.500	0.187	0.203	0.031					○	●			○							○							
	WNMG433-SNR	0.343	0.500	0.187	0.203	0.047						○	●			○						○							
 Without chipbreaker (flat top)	WNMA3(2.5)2	0.256	0.375	0.156	0.150	0.031																	○						
	WNMA331	0.256	0.375	0.187	0.150	0.016																				○			
	WNMA332	0.256	0.375	0.187	0.150	0.031																		●	○	○			
	WNMA333	0.256	0.375	0.187	0.150	0.047																					○		
	WNMA431	0.343	0.500	0.187	0.203	0.016																				○			
	WNMA432	0.343	0.500	0.187	0.203	0.031																			●	●	●		
	WNMA433	0.343	0.500	0.187	0.203	0.047																			●	●	●		
	WNMA434	0.343	0.500	0.187	0.203	0.063																					●		

● Always stock available ○ Produce according to order



Applicable tool

CC ☐ ☐ (Positive inserts)



😊 Good working conditions 😐 General working conditions 😞 Adverse working conditions

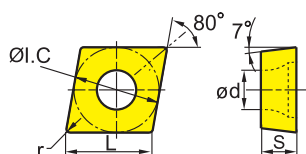
		Good working conditions						General working conditions						Favorable working conditions					
Workpiece material	P Steel		😊	😊	😊	😊	😊	😊		😊	😊		😊	😊					
	M Stainless steel						😊		😊	😊		😊	😊	😊	😊				
	K Cast iron													😊	😊	😊			
	N Ferrite materials															😊	😊		
	S Heat-resistant steel						😊	😊		😊				😊			😊		

Inserts shape	Type	Dimensions(inch)					Coated cemented carbide																	Cermet	Coated cermet	Cemented carbide					
		L	ØI.C	S	ød	r	YBC103	YBC203	YBC152	YBC252	YBC352	YBG102	YBG105	YBG202	YBG205	YBG212	YBG302	YBM153	YBM215	YBM251	YBM253	YBS103	YBD052	YBD102	YBD152	YNG151	YNG151C	YD101	YD201		
SF  Precision machining	CCGT2(1.5)0-SF	0.252	0.250	0.094	0.110	0.008																					○	○			
	CCGT2(1.5)1-SF	0.252	0.250	0.094	0.110	0.016																					○	○			
	CCGT3(2.5)1-SF	0.382	0.375	0.156	0.173	0.016																					○	●			
XF  Finishing	CCMT2(1.5)0-XF	0.252	0.250	0.094	0.110	0.008	●	●																							
	CCMT2(1.5)1-XF	0.252	0.250	0.094	0.110	0.016	●	●																							
	CCMT2(1.5)2-XF	0.252	0.250	0.094	0.110	0.031	●	●																							
	CCMT3(2.5)0-XF	0.382	0.375	0.156	0.173	0.008	●	●																							
	CCMT3(2.5)1-XF	0.382	0.375	0.156	0.173	0.016	●	●																							
	CCMT3(2.5)2-XF	0.382	0.375	0.156	0.173	0.031	●	●																							
HF  Finishing	CCMT2(1.5)0-HF	0.252	0.250	0.094	0.110	0.008			●	●			●														○			○	
	CCMT2(1.5)1-HF	0.252	0.250	0.094	0.110	0.016			●	○			●													●	●		●		
	CCMT2(1.5)2-HF	0.252	0.250	0.094	0.110	0.031			●				●						○								●				
	CCMT3(2.5)0-HF	0.382	0.375	0.156	0.173	0.008				○			●															●			○
	CCMT3(2.5)1-HF	0.382	0.375	0.156	0.173	0.016			●	●			●													●	●	○			○
	CCMT3(2.5)2-HF	0.382	0.375	0.156	0.173	0.031			●	○			●						○				○	○	○	○	●		○		○
	CCMT431-HF	0.508	0.500	0.187	0.219	0.016			○	○																●	○				
	CCMT432-HF	0.508	0.500	0.187	0.219	0.031			○																						
EF  Finishing	CCMT2(1.5)0-EF	0.252	0.250	0.094	0.110	0.008						○		●	●				○												
	CCMT2(1.5)1-EF	0.252	0.250	0.094	0.110	0.016						○		●	●				○												
	CCMT3(2.5)0-EF	0.382	0.375	0.156	0.173	0.008						○		●	●				○												
	CCMT3(2.5)1-EF	0.382	0.375	0.156	0.173	0.016						○		●	●				○												
	CCMT3(2.5)2-EF	0.382	0.375	0.156	0.173	0.031						○		●	●				○												
	CCMT431-EF	0.508	0.500	0.187	0.219	0.016						○		●	●				○												

● Always stock available ○ Produce according to order



Applicable tool



🙄 Adverse working conditions

		Good working conditions			General working conditions			Favorable working conditions				
Workpiece material	P Steel		😊	😊	😊	😊	😊	😊			😊	😊
	M Stainless steel					😊	😊	😊	😊	😊	😊	😊
	K Cast iron									😊	😊	😊
	N Ferrite materials											😊
	S Heat-resistant steel			😊	😊		😊			😊		😊

[illegible]

● Always stock available ○ Produce according to order



Applicable tool



● Always stock available ○ Produce according to order



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(Positive inserts)



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● Always stock available ○ Produce according to order

