



ТОКАРНЫЕ ПЛАСТИНЫ

2025

Ordering code system

C**1****N****2****M****3****G****4****1** Shape

Insert Shape

 A	 B	 C
 D	 E	 H
 K	 L	 M
 O	 P	 R
 S	 T	 T
 V	 W	其他 Z

4 Chip Breaker and Clamping Designation

ISO Code

Symbol	Center Hole	Chip Breaker	Insert Profile	Symbol	Center Hole	Chip Breaker	Insert Profile
B	Y	N		N	N	N	
H	Y	Single Face		R	N	Single Face	
C	Y	N		F	N	Double Face	
J	Y	Double Face		A	Y	N	
W	Y	N		M	Y	Single Face	
T	Y	Single Face		G	Y	Double Face	
Q	Y	N		X	...	...	special
U	Y	Double Face					

2 Clearance Angle

Symbol	Angle	Symbol	Angle
A		B	
C		D	
E		F	
G		N	
P		O	Special

3 Tolerance, metric

											
Symbol	m(mm)	d=l.C. (mm)	s (mm)	reference)M grade tolerance detail(according to shape, size.) Tolerance of insert nose height							
				Inscribed Circle	Regular Triangle	Square	80° Rhombus	55° Rhombus	35° Rhombus	Round	
				6.35	±0.08	±0.08	±0.08	±0.11	±0.16	...	
				9.525	±0.08	±0.08	±0.08	±0.11	±0.16	...	
A	±0.005	±0.025	±0.025	12.7	±0.13	±0.13	±0.13	±0.15	...	...	
F	±0.005	±0.013	±0.025	15.875	±0.15	±0.15	±0.15	±0.18	...	...	
C	±0.013	±0.025	±0.025	19.05	±0.15	±0.15	±0.15	±0.18	...	...	
H	±0.013	±0.013	±0.013	25.4	...	±0.18			...	...	
E	±0.025	±0.025	±0.025	• Tolerance of Inscribed Circle							
G	±0.025	±0.025	±0.13	Inscribed Circle	Regular Triangle	Square	80° Rhombus	55° Rhombus	35° Rhombus	Round	
J	±0.005	±0.05 -±0.13	±0.025	6.35	±0.05	±0.05	±0.05	±0.05	±0.05	±0.08	
K	±0.013	±0.05 -±0.13	±0.025	9.525	±0.05	±0.05	±0.05	±0.05	±0.05	±0.08	
L	±0.025	±0.05 -±0.13	±0.025	12.7	±0.08	±0.08	±0.08	±0.08	...	±0.1	
M	±0.08 -±0.18	±0.05 -±0.13	±0.13	15.875	±0.1	±0.1	±0.1	±0.1	...	0.1	
N	±0.08 -±0.18	±0.05 -±0.13	±0.025	19.05	±0.1	±0.1	±0.1	±0.1	...	±0.13	
U	±0.13 -±0.38	±0.08 -±0.25	±0.13	25.4	...	±0.13	...	...	...	...	

Ordering code system

12
5
04
6
08
7
- PM
8

5		Cutting Edge Length						
Inscribed Circle diameter (mm)	Insert Shape							
	C	D	R	S	T	V	W	K
								
3.97					06			
5			05					
5.56					09			
6			06					
6.35	06	07			11	11		
8			08					
9.525	09	11	09	09	16	16	06	16
10			10					
12			12					
12.7	12	15	12	12	22	22	08	
15.875	16		15	15	27			
16			19	16				
19.05	19		19	19	33			
20			20					
25	25	25	25					
25.4			25	25				
31.75			31					
32			32					

6 Thickness	
	The Height Between Insert Bottom And Nose
Symbol	Thickness (mm)
00	0.79
T0	0.99
01	1.59
T1	1.98
02	2.38
T2	2.58
03	3.18
T3	3.97
04	4.76
T4	4.96
05	5.56
T5	5.95
06	6.35
T6	6.75
07	7.94
09	9.52
T9	9.72
11	11.11
12	12.7

7 Nose Radius	
Symbol	Corner Radius (mm)
00	0
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
20	2
24	2.4
32	3.2
X	Special
Diameter Dimension	Round Insert

8

Chip Breaker

A

Grooving

B

Threading

C

Turning

D

Drilling

E

Milling

F

Taps

G

Special Tools

H

Technical Info

Ordering code system - carbide grade

W

1

C

2

P

3

0

4

15

5

1 – Brand code

W: WC-Co



2 – Coating

C – CVD Coating

P – PVD Coating

N – Without Coating

3 – Material group

P: Steel

M: Stainless steel

K: Cast iron

N: Non-ferrous metals

S: Heat resistant material

H: Hardened material

G: General material

4 – Upgrade code

0 – 0, 1, 2, 3, 4, 5...

5 – Degree of hardness

05 – ISO05

10 – ISO10

15 – ISO15

20 – ISO20

25 – ISO25

30 – ISO30

35 – ISO35

40 – ISO40

Wear-resistant



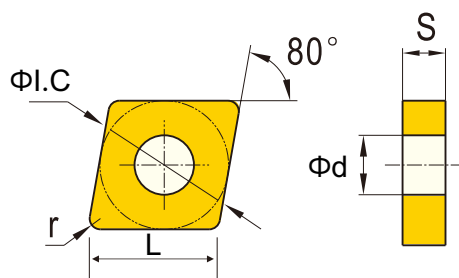
Tough

T003



TURNING INSERT (NEGATIVE)

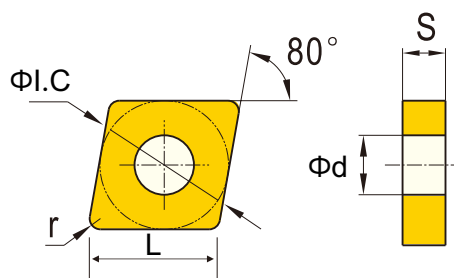
CN□□



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Finishing		CNMG120404-PF	12.9	12.7	4.76	5.16	0.4	○	○		●											
		CNMG120408-PF	12.9	12.7	4.76	5.16	0.8	○	○		●											
		CNMG120404-MF	12.9	12.7	4.76	5.16	0.4						○	○	●							
		CNMG120408-MF	12.9	12.7	4.76	5.16	0.8						○	○	●							
		CNMG090304-WMF	9.7	9.525	3.18	3.881	0.4															
		CNMG120404-WMF	12.9	12.7	4.76	5.16	0.4															
Semi Finishing		CNMG120404-PM	12.9	12.7	4.76	5.16	0.4		○	○	●											
		CNMG120408-PM	12.9	12.7	4.76	5.16	0.8		○	○	●											
		CNMG120412-PM	12.9	12.7	4.76	5.16	1.2		○	○	●											
		CNMG120416-PM	12.9	12.7	4.76	5.16	1.6		○	○	●											
		CNMG160608-PM	16.1	15.875	6.35	6.35	0.8		○	○	●											
		CNMG160612-PM	16.1	15.875	6.35	6.35	1.2		○	○	●											
		CNMG160616-PM	16.1	15.875	6.35	6.35	1.6		○	○	●											
		CNMG190608-PM	19.3	19.05	6.35	7.94	0.8		○	○	●	●										
		CNMG190612-PM	19.3	19.05	6.35	7.94	1.2		○	○	●	●										
		CNMG190616-PM	19.3	19.05	6.35	7.94	1.6		○	○	●	●										
		CNMG120404-WMM	12.9	12.7	4.76	5.16	0.4						○	●	○							
		CNMG120408-WMM	12.9	12.7	4.76	5.16	0.8						○	●	○							
		CNMG160608-WMM	16.1	15.875	6.35	6.35	0.8						○	●	○							

TURNING INSERT (NEGATIVE)

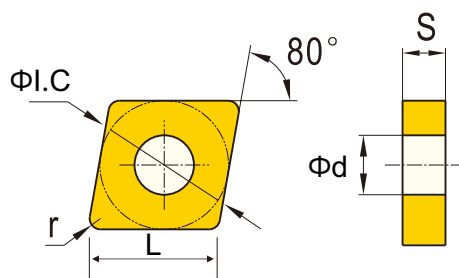
CN□ □



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Semi Finishing		CNMG090308-MM	9.7	9.525	3.18	3.81	0.8							○	●	○						
		CNMG120404-MM	12.9	12.7	4.76	5.16	0.4							○	●	○						
		CNMG120408-MM	12.9	12.7	4.76	5.16	0.8							○	●	○						
		CNMG120412-MM	12.9	12.7	4.76	5.16	1.2							○	●	○						
		CNMG160612-MM	16.1	15.875	6.35	6.35	1.2							○	●	○						
		CNMG120404-KM	12.9	12.7	4.76	5.16	0.4										●		●			
		CNMG120408-KM	12.9	12.7	4.76	5.16	0.8										●		●			
		CNMG120412-KM	12.9	12.7	4.76	5.16	1.2										●		●			
		CNMG120408-WSM	12.9	12.7	4.76	5.16	0.8													○		
		CNMG120412-WSM	12.9	12.7	4.76	5.16	1.2													○		
		CNMG120408-SM	12.9	12.7	4.76	5.16	0.8													●		●
		CNMG120404-SM	12.9	12.7	4.76	5.16	0.4													●		●
Roughing		CNMG120408-PR	12.9	12.7	4.76	5.16	0.8		○	○	●											
		CNMG120412-PR	12.9	12.7	4.76	5.16	1.2		○	○	●											
		CNMG120416-PR	12.9	12.7	4.76	5.16	1.6		○	○	●											
		CNMG160608-PR	16.1	15.875	6.35	6.35	0.8		○	○	●											
		CNMG160612-PR	16.1	15.875	6.35	6.35	1.2		○	○	●											
		CNMG160616-PR	16.1	15.875	6.35	6.35	1.6		○	○	●											
		CNMG190608-PR	19.3	19.05	6.35	7.94	0.8		○	○	●	●										
		CNMG190612-PR	19.3	19.05	6.35	7.94	1.2		○	○	●	●										
		CNMG190616-PR	19.3	19.05	6.35	7.94	1.6		○	○	●	●										

TURNING INSERT (NEGATIVE)

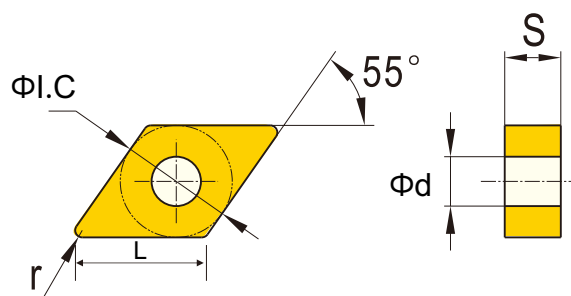
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Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Roughing		CNMG120408-MR	12.9	12.7	4.76	5.16	0.8							○	●	○						
		CNMG120412-MR	12.9	12.7	4.76	5.16	1.2							○	●	○						
		CNMG120408-KR	12.9	12.7	4.76	5.16	0.8										●		●			
		CNMG120412-KR	12.9	12.7	4.76	5.16	1.2										●		●			
		CNMG120416-KR	12.9	12.7	4.76	5.16	1.6										●		●			
		CNMG160612-KR	16.1	15.8	6.35	6.35	1.2										●		●			
Heavy Duty Machining		CNMM190616-WPR	19.3	19.05	6.35	7.94	1.6		○	○	●											
		CNMM250924-WPR	25.8	25.4	9.72	9.12	2.4					●										
		CNMM250724-WPR	25.8	25.4	7.94	9.12	2.4					●										
Semi Finishing		CNMG120404	12.9	12.7	4.76	5.16	0.4		○	○	●						●					
		CNMG120408	12.9	12.7	4.76	5.16	0.8		○	○	●						●					
		CNMG120412	12.9	12.7	4.76	5.16	1.2		○	○	●						●					
		CNMG160608	16.1	15.875	6.35	6.35	0.8		○	○	●						●					
		CNMG160612	16.1	15.875	6.35	6.35	1.2		○	○	●						●					
		CNMG160616	16.1	15.875	6.35	6.35	1.6		○	○	●						●					
		CNMG190608	19.3	19.05	6.35	7.94	0.8		○	○	●						●					
		CNMG190612	19.3	19.05	6.35	7.94	1.2		○	○	●						●					
		CNMG190616	19.3	19.05	6.35	7.94	1.6		○	○	●						●					

TURNING INSERT (NEGATIVE)

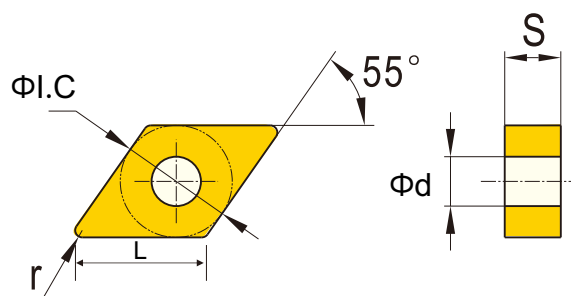
DN



Insert Shape	Order Number	Dimension					P					M				K			S		
		L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Finishing		DNMG110404-PF	11.6	9.525	4.76	3.81	0.4		○	○	●										
		DNMG110408-PF	11.6	9.525	4.76	3.81	0.8		○	○	●										
		DNMG150404-PF	15.5	12.7	4.76	5.16	0.4		○	○	●										
		DNMG150408-PF	15.5	12.7	4.76	5.16	0.8		○	○	●										
		DNMG150604-PF	15.5	12.7	6.35	5.16	0.8		○	○	●										
		DNMG150608-PF	15.5	12.7	6.35	5.16	0.8		○	○	●										
		DNMG150604-MF	15.5	12.7	6.35	5.16	0.4					○	●	○							
		DNMG150608-MF	15.5	12.7	6.35	5.16	0.8					○	●	○							
		DNMG110404-WMF	11.6	9.525	4.76	3.81	0.4					○	●	○							
		DNMG150404-WMF	15.5	12.7	4.76	5.16	0.4					○	●	○							
Semi Finishing		DNMG110404-PM	11.6	9.525	4.76	3.81	0.4		○		●										
		DNMG110408-PM	11.6	9.525	4.76	3.81	0.8		○		●										
		DNMG110412-PM	11.6	9.525	4.76	3.81	1.2		○		●										
		DNMG150404-PM	15.5	12.7	4.76	5.16	0.4		○		●										
		DNMG150408-PM	15.5	12.7	4.76	5.16	0.8		○		●										
		DNMG150412-PM	15.5	12.7	4.76	5.16	1.2		○		●										
		DNMG150604-PM	15.5	12.7	6.35	5.16	0.4		○		●										
		DNMG150608-PM	15.5	12.7	6.35	5.16	0.8		○		●										
		DNMG150612-PM	15.5	12.7	6.35	5.16	1.2		○		●	○	●	○							
		DNMG110404-WMM	11.6	9.525	4.76	3.81	0.4					○	●	○							
		DNMG110408-WMM	11.6	9.525	4.76	3.81	0.8					○	●	○							
		DNMG150404-WMM	15.5	12.7	4.76	5.16	0.4					○	●	○							
		DNMG150408-WMM	15.5	12.7	4.76	5.16	0.8					○	●	○							
		DNMG150604-WMM	15.5	12.7	6.35	5.16	0.4					○	●	○							
		DNMG150608-WMM	15.5	12.7	6.35	5.16	0.8					○	●	○							
		DNMG150612-WMM	15.5	12.7	6.35	5.16	1.2					○	●	○							

TURNING INSERT (NEGATIVE)

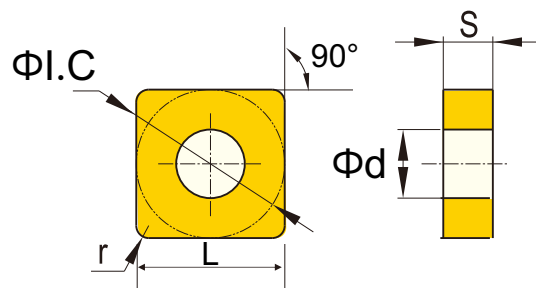
DN



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Semi Finishing		DNMG110408	11.6	9.525	4.76	3.81	0.8		○	○	●											
		DNMG150404	15.5	12.7	4.76	5.16	0.4		○	○	●											
		DNMG150408	15.5	12.7	6.35	5.16	0.8		○	○	●											
		DNMG150412	15.5	12.7	6.35	5.16	1.2		○	○	●											
		DNMG150608	15.5	12.7	6.35	5.16	0.8		○	○	●											
		DNMG150612	15.5	12.7	6.35	5.16	1.2		○	○	●											
Roughing		DNMA150404	15.5	12.7	4.76	5.16	0.4										●					
		DNMA150408	15.5	12.7	4.76	5.16	0.8										●					
		DNMA150604	15.5	12.7	6.35	5.16	0.4										●					
		DNMA150608	15.5	12.7	6.35	5.16	0.8										●					
		DNMA150612	15.5	12.7	6.35	5.16	1.2										●					

TURNING INSERT (NEGATIVE)

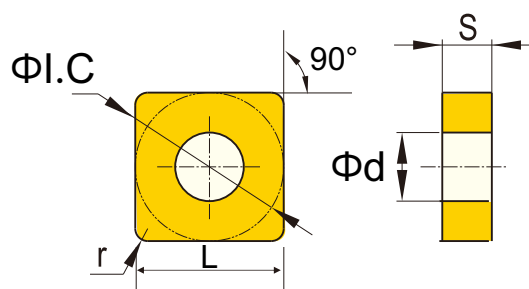
SN □ □



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Finishing		SNMG120404-PF	12.7	12.7	4.76	5.16	0.4	○	○	●												
		SNMG120408-PF	12.7	12.7	4.76	5.16	0.8	○	○	●												
Finishing		SNMG120408-MF	12.7	12.7	4.76	5.16	0.8						○	●	○							
Semi Finishing		SNMG120404-PM	12.7	12.7	5.16	5.16	0.4	○		●												
		SNMG120408-PM	12.7	12.7	5.16	5.16	0.8	○		●												
		SNMG120412-PM	12.7	12.7	5.16	5.16	1.2	○		●												
		SNMG150608-PM	15.875	15.875	6.35	6.35	0.8	○		●												
		SNMG150612-PM	15.875	15.875	6.35	6.35	1.2	○		●												
		SNMG190612-PM	19.05	19.05	6.35	7.94	1.2	○		●												
		SNMG120404-WMM	12.7	12.7	4.76	5.16	0.4						○	●	○							
		SNMG120408-WMM	12.7	12.7	4.76	5.16	0.8						○	●	○							
		SNMG120412-WMM	12.7	12.7	4.76	5.16	1.2						○	●	○							
		SNMG150608-WMM	15.875	15.875	6.35	6.35	0.8						○	●	○							
		SNMG120408-MM	12.7	12.7	4.76	5.16	0.8						○	●	○							
		SNMG120404-KM	12.7	12.7	4.76	5.16	0.4										●	●				
		SNMG120408-KM	12.7	12.7	4.76	5.16	0.8										●	●				
		SNMG120412-KM	12.7	12.7	4.76	5.16	1.2										●	●				
		SNMG120408-WSM	12.7	12.7	4.76	5.16	0.8													○		

TURNING INSERT (NEGATIVE)

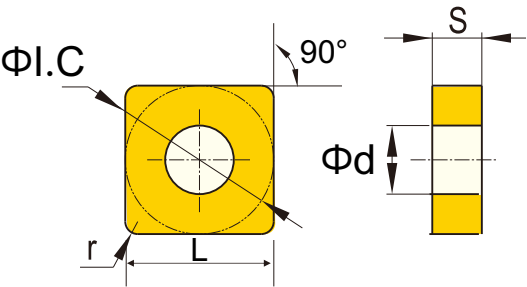
SN



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Semi Finishing		SNMG120408-SM	12.7	12.7	4.76	5.16	0.8										●		●			
Roughing		SNMG120408-PR	12.7	12.7	4.76	5.16	0.8	○	○	●												
		SNMG120412-PR	12.7	12.7	4.76	5.16	1.2	○	○	●												
		SNMG150608-PR	15.875	15.875	6.35	6.35	0.8	○	○	●												
		SNMG150612-PR	15.875	15.875	6.35	6.35	1.2	○	○	●												
		SNMG150616-PR	15.875	15.875	6.35	6.35	1.6	○	○	●												
		SNMG190612-PR	19.05	19.05	6.35	7.94	1.2	○	○	●												
		SNMG190616-PR	19.05	19.05	6.35	7.94	1.6	○	○	●												
		SNMM190624-PR	19.05	19.05	6.35	7.94	2.4	○	○	●												
		SNMG120408-KR	12.7	12.7	4.76	5.16	0.8										●		●			
		SNMG120412-KR	12.7	12.7	4.76	5.16	1.2										●		●			
		SNMG120416-KR	12.7	12.7	4.76	5.16	1.6										●		●			
		SNMG150616-KR	15.875	15.875	6.35	6.35	1.6										●		●			
		SNMG190612-KR	19.05	19.05	6.35	7.94	1.2										●		●			
		SNMM250724-WPR	25.4	25.4	9.525	9.12	2.4					●										
		SNMM250924-WPR	25.4	25.4	9.525	9.12	2.4					●										

TURNING INSERT (NEGATIVE)

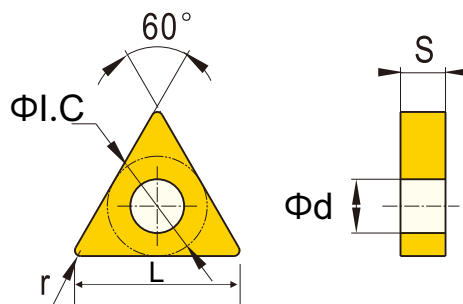
SN□□



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Semi Finishing		SNMG120404	12.7	12.7	4.76	5.16	0.4		○	○	●											
		SNMG120408	12.7	12.7	4.76	5.16	0.8		○	○	●											
		SNMG120412	12.7	12.7	4.76	5.16	1.2		○	○	●											
		SNMG120416	12.7	12.7	4.76	5.16	1.6		○	○	●											
		SNMG150608	15.875	15.875	15.875	6.35	0.8		○	○	●											
		SNMG150612	15.875	15.875	15.875	6.35	1.2		○	○	●											
		SNMG190612	19.05	19.05	19.05	7.94	1.2		○	○	●											
		SNMG190616	19.05	19.05	19.05	7.94	1.6		○	○	●											
		SNMG250724	25.4	25.4	25.4	9.12	2.4		○	○	●											
		SNMG250924	25.4	25.4	25.4	9.12	2.4		○	○	●											
Roughing		SNMA120408	12.7	12.7	4.76	5.16	0.8											●				
		SNMA120412	12.7	12.7	4.76	5.16	1.2											●				
		SNMA120416	12.7	12.7	4.76	5.16	1.6											●				

TURNING INSERT (NEGATIVE)

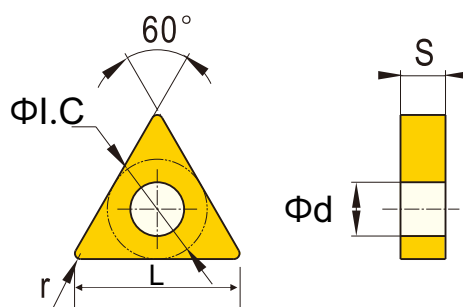
TN□□



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Finishing		TNMG160404-PF	16.5	9.525	4.76	3.81	0.4		○	○	●											
		TNMG160408-PF	16.5	9.525	4.76	3.81	0.8		○	○	●											
		TNMG160404-MF	16.5	9.525	4.76	3.81	0.4						○	●	○							
		TNMG160408-MF	16.5	9.525	4.76	3.81	0.8						○	●	○							
		TNMG160404-WMF	16.5	9.525	4.76	3.81	0.4						○	●	○							
		TNMG160408-WMF	16.5	9.525	4.76	3.81	0.8						○	●	○							
Semi Finishing		TNMG160404-PM	16.5	9.525	4.76	3.81	0.4		○		●											
		TNMG160408-PM	16.5	9.525	4.76	3.81	0.8		○		●											
		TNMG160412-PM	16.5	9.525	4.76	3.81	1.2		○		●											
		TNMG220404-PM	22	12.7	4.76	5.16	0.4		○		●											
		TNMG220408-PM	22	12.7	4.76	5.16	0.8		○		●											
		TNMG220412-PM	22	12.7	4.76	5.16	1.2		○		●											
		TNMG220416-PM	22	12.7	4.76	5.16	1.6		○		●											
		TNMG160404-WMM	16.5	9.525	4.76	3.81	0.4						○	●	○							
		TNMG160408-WMM	16.5	9.525	4.76	3.81	0.8						○	●	○							
		TNMG220404-WMM	22	12.7	4.76	5.16	0.4						○	●	○							
		TNMG220408-WMM	22	12.7	4.76	5.16	0.8						○	●	○							
		TNMG220412-WMM	22	12.7	4.76	5.16	1.2						○	●	○							
		TNMG160404-MM	16.5	9.525	4.76	3.81	0.4						○	●	○							
		TNMG160408-MM	16.5	9.525	4.76	3.81	0.8						○	●	○							
		TNMG160412-MM	16.5	9.525	4.76	3.81	1.2						○	●	○							
		TNMG220404-MM	22	12.7	4.76	5.16	0.4						○	●	○							
		TNMG220408-MM	22	12.7	4.76	5.16	0.8						○	●	○							

TURNING INSERT (NEGATIVE)

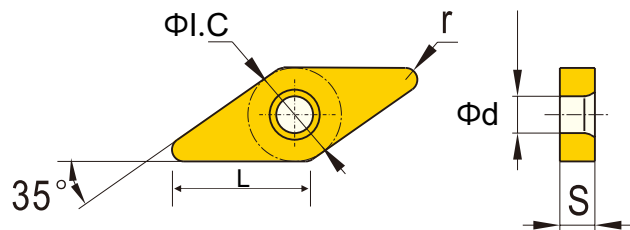
TN □ □



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Semi Finishing		TNMG160404-KM	16.5	9.525	4.76	3.81	0.4										●		●			
		TNMG160408-KM	16.5	9.525	4.76	3.81	0.8										●		●			
		TNMG160412-KM	16.5	9.525	4.76	3.81	1.2										●		●			
Semi Finishing		TNMG160408-SM	16.5	9.525	4.76	3.81	0.8														●	●
Roughing		TNMG160408-PR	16.5	9.525	4.76	3.81	0.8	○	○	●												
		TNMG160412-PR	16.5	9.525	4.76	3.81	1.2	○	○	●												
		TNMG220408-PR	22	12.7	4.76	5.16	0.8	○	○	●												
		TNMG220412-PR	22	12.7	4.76	5.16	1.2	○	○	●												
		TNMG220416-PR	22	12.7	4.76	5.16	1.6	○	○	●												
		TNMG270612-PR	27.5	15.875	6.35	6.35	1.2	○	○	●												
		TNMG160408-MR	16.5	9.525	4.76	3.81	0.8						○	●	○							
		TNMG160408-KR	16.1	15.875	6.35	6.35	1.6										●		●			
		TNMG160412-KR	19.3	19.05	6.35	7.94	0.8										●		●			
Semi Finishing		TNMG160404	16.5	9.525	4.76	3.81	0.4	○	○	●								●				
		TNMG160408	16.5	9.525	4.76	3.81	0.8	○	○	●								●				
		TNMG160412	16.5	9.525	4.76	3.81	1.2	○	○	●								●				
		TNMG220408	22	12.7	4.76	5.16	0.8	○	○	●								●				
		TNMG220412	22	12.7	4.76	5.16	1.2	○		●								●				
		TNMG220416	22	12.7	4.76	5.16	1.6	○		●								●				

TURNING INSERT (NEGATIVE)

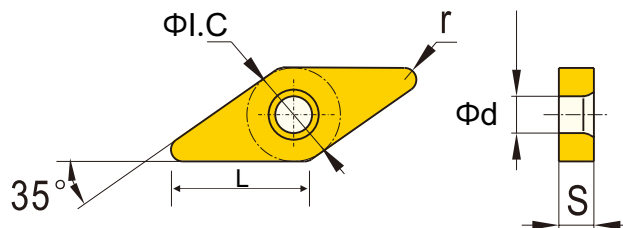
VN □ □



Insert Shape	Order Number	Dimension					P					M				K			S		
		L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
	VNMG160404-PF	16.6	9.525	4.76	3.81	0.4		○	○	●											
	VNMG160408-PF	16.6	9.525	4.76	3.81	0.8		○	○	●											
	VNMG160404-WMF	16.6	9.525	4.76	3.81	0.4						○	●	○							
	VNMG160404-PM	16.6	9.525	4.76	3.81	0.4		○		●											
	VNMG160408-PM	16.6	9.525	4.76	3.81	0.8		○		●											
	VNMG160412-PM	16.6	9.525	4.76	3.81	1.2		○		●											
	VNMG160404-WMM	16.6	9.525	4.76	3.81	0.4						○	●	○							
	VNMG160408-WMM	16.6	9.525	4.76	3.81	0.8						○	●	○							
	VNMG160408-MM	16.6	9.525	4.76	3.81	0.8		○	○	●											
	VNMG160404-KM	16.6	9.525	4.76	3.81	0.4										●		●			
	VNMG160408-KM	16.6	9.525	4.76	3.81	0.8										●		●			
	VNMG160408-SM	16.6	9.525	4.76	3.81	0.8														●	●

TURNING INSERT (NEGATIVE)

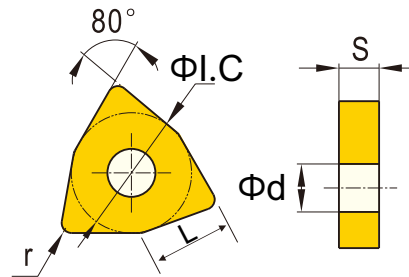
VN



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Roughing		VNMG160408-PR	16.6	9.525	4.76	3.81	0.4	○	○	●												
		VNMG160412-PR	16.6	9.525	4.76	3.81	0.8	○	○	●												
		VNMG160408-KR	16.6	9.525	4.76	3.81	0.4										●		●			
		VNMG160412-KR	16.6	9.525	4.76	3.81	0.8										●		●			
Semi Finishing		VNMG160404	16.6	9.525	4.76	3.81	0.4	○	○	●							●					
		VNMG160408	16.6	9.525	4.76	3.81	0.8	○	○	●							●					
		VNMG160412	16.6	9.525	4.76	3.81	1.2	○	○	●							●					
Roughing		VNMA160408	16.6	9.525	4.76	3.81	0.8										●					

TURNING INSERT (NEGATIVE)

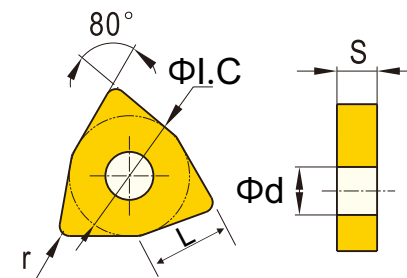
WN □ □



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Finishing		WNMG060404-PF	6.5	9.525	4.76	3.81	0.4		○	○	●											
		WNMG060408-PF	6.5	9.525	4.76	3.81	0.8		○	○	●											
		WNMG060408-MF	6.5	9.525	4.76	3.81	0.8						○	●	○							
		WNMG080404-MF	8.7	12.7	4.76	5.16	0.4						○	●	○							
		WNMG080408-MF	8.7	12.7	4.76	5.16	0.8						○	●	○							
		WNMG060304-WMF	6.5	9.525	3.18	3.81	0.4						○	●	○							
		WNMG060404-WMF	6.5	9.525	4.76	3.81	0.4						○	●	○							
		WNMG080404-WMF	8.7	12.7	4.76	5.16	0.4						○	●	○							
Semi Finishing		WNMG060408-PM	6.5	9.525	4.76	3.81	0.8		○		●											
		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		○		●											
		WNMG060408-WMM	6.5	9.525	4.76	3.81	0.8						○	●	○							
		WNMG060412-WMM	6.5	9.525	4.76	3.81	1.2						○	●	○							
		WNMG080404-WMM	8.7	12.7	4.76	5.16	0.4						○	●	○							
		WNMG080408-WMM	8.7	12.7	4.76	5.16	0.8						○	●	○							
		WNMG060408-MM	6.5	9.525	4.76	3.81	0.8						○	●	○							
		WNMG080408-MM	8.7	12.7	4.76	5.16	0.8						○	●	○							
		WNMG080412-MM	8.7	12.7	4.76	5.16	1.2						○	●	○							
		WNMG080404-KM	8.7	12.7	4.76	5.16	0.4										●		●			
		WNMG080408-KM	8.7	12.7	4.76	5.16	0.8										●		●			
		WNMG080412-KM	8.7	12.7	4.76	5.16	1.2										●		●			

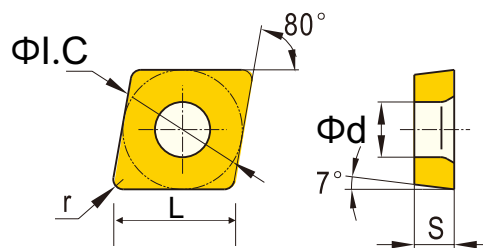
TURNING INSERT (NEGATIVE)

WN □ □



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Finishing		WNMG080408-SM	8.7	12.7	4.76	5.16	0.8														●	●
		WNMG080408-PR	8.7	12.7	4.76	5.16	0.8		○	○	●											
		WNMG080412-PR	8.7	12.7	4.76	5.16	1.2		○	○	●											
		WNMG080408-MR	8.7	12.7	4.76	5.16	0.8						○	●	○							
		WNMG080412-MR	8.7	12.7	4.76	5.16	1.2						○	●	○							
Semi Finishing		WNMG080408-KR	8.7	12.7	4.76	5.16	0.8										●		●			
		WNMG080412-KR	8.7	12.7	4.76	5.16	1.2										●		●			
		WNMG080404	8.7	12.7	4.76	5.16	0.4		○	○	●							●				
		WNMG080408	8.7	12.7	4.76	5.16	0.8		○	○	●							●				
		WNMG080412	8.7	12.7	4.76	5.16	1.2		○	○	●							●				
		WNMA080408	8.7	12.7	4.76	5.16	0.8											●				
		WNMA080412	8.7	12.7	4.76	5.16	1.2											●				

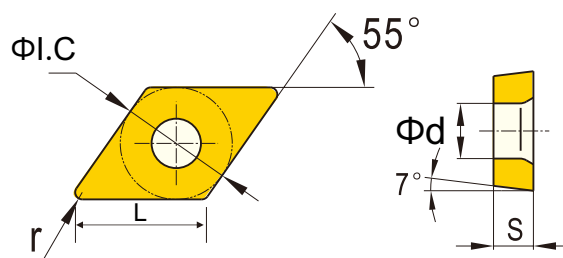
TURNING INSERT (POSITIVE)



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Finishing		CCMT060202-TF	6.4	6.35	2.38	2.8	0.2	●					○	●	○							
		CCMT060204-TF	6.4	6.35	2.38	2.8	0.4	●					○	●	○							
		CCMT09T304-TF	9.7	9.525	3.97	4.4	0.4	●					○	●	○							
		CCMT09T308-TF	9.7	9.525	3.97	4.4	0.8	●					○	●	○							
		CCMT120404-TF	12.9	12.7	4.76	5.5	0.4	●					○	●	○							
		CCMT120408-TF	12.9	12.7	4.76	5.5	0.8	●					○	●	○							
		CCMT060202-WMF	6.4	6.35	2.38	2.8	0.2						○	●	○							
		CCMT060204-WMF	6.4	6.35	2.38	2.8	0.4						○	●	○							
		CCMT09T302-WMF	9.7	9.525	3.97	4.4	0.2						○	●	○							
		CCMT09T304-WMF	9.7	9.525	3.97	4.4	0.4						○	●	○							
		CCMT09T308-WMF	12.9	12.7	4.76	5.5	0.8						○	●	○							
		CCMT120404-WMF	12.9	12.7	4.76	5.5	0.4						○	●	○							
Semi Finishing		CCMT060204-TM	6.4	6.35	2.38	2.8	0.4	○	○	○	●		○	●	○							
		CCMT060208-TM	6.4	6.35	2.38	2.8	0.8	○	○	○	●		○	●	○							
		CCMT09T304-TM	9.7	9.525	3.97	4.4	0.4	○	○	○	●		○	●	○							
		CCMT09T308-TM	9.7	9.525	3.97	4.4	0.8	○	○	○	●		○	●	○							
		CCMT120404-TM	12.9	12.7	4.76	5.5	0.4	○	○	○	●		○	●	○							
		CCMT120408-TM	12.9	12.7	4.76	5.5	0.8	○	○	○	●		○	●	○							
		CCMT060208-TR	6.4	6.35	2.38	2.8	0.8	○	○	○	●						●					
		CCMT09T304-TR	9.7	9.525	3.97	4.4	0.4	○	○	○	●						●					
		CCMT09T308-TR	9.7	9.525	3.97	4.4	0.8	○	○	○	●						●					
		CCMT120408-TR	12.9	12.7	4.76	5.5	0.8	○	○	○	●						●					
		CCMT120412-TR	12.9	12.7	4.76	5.5	1.2	○	○	○	●						●					

TURNING INSERT (POSITIVE)

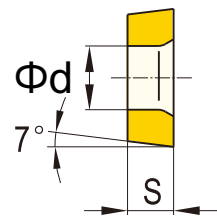
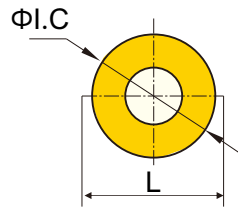
DC



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Finishing		DCMT070204-TF	7.8	6.35	2.38	2.8	0.4	●						○	●	○						
		DCMT11T302-TF	11.6	9.525	3.97	4.4	0.2	●						○	●	○						
		DCMT11T304-TF	11.6	9.525	3.97	4.4	0.4	●						○	●	○						
		DCMT070204-WMF	7.8	6.35	2.38	2.8	0.4							○	●	○						
		DCMT11T304-WMF	11.6	9.525	3.97	4.4	0.4							○	●	○						
Semi Finishing		DCMT070204-TM	7.8	6.35	2.38	2.8	0.4	○	○	○	●			○	●	○						
		DCMT070208-TM	7.8	6.35	2.38	2.8	0.8	○	○	○	●			○	●	○						
		DCMT11T304-TM	11.6	9.525	3.97	4.4	0.4	○	○	○	●			○	●	○						
		DCMT11T308-TM	11.6	9.525	3.97	4.4	0.8	○	○	○				○	●	○						
Roughing		DCMT11T304-TR	11.6	9.525	3.97	4.4	0.4	○	○	○	●			○	●	○						
		DCMT11T308-TR	11.6	9.525	3.97	4.4	0.8	○	○	○	●			○	●	○						

TURNING INSERT (POSITIVE)

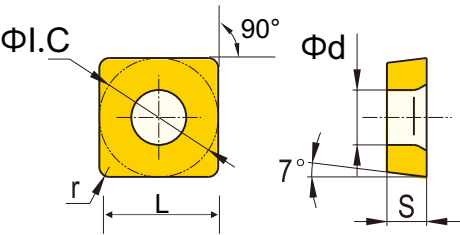
RC □ □



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Semi Finishing		RCMX0803MO	8.0	8.0	3.18	3.18	3.4	○	●													
		RCMX1003MO	10	10	3.18	3.18	3.6	○	●													
		RCMX1204MO-Q	12	12	4.76	4.76	4.4	○	●													
		RCMX1606MO-Q	16	16	6.35	6.35	5.5	○	●													
		RCMX2006MO-Q	20	20	6.35	6.35	6.5	○	●													
		RCMX2507MO-Q	25	25	7.94	7.94	7.2	○	●													
		RCMX3209MO-Q	32	32	9.52	9.52	9.5	○	●													
		RCMT0803MO	8.0	8.0	3.18	3.18	3.4	○	●													
		RCMT1606MO-Q	16	16	6.35	5.5	5.5	○	●													

TURNING INSERT (POSITIVE)

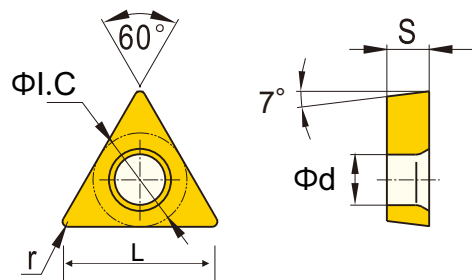
SC



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	$\Phi I.C$	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Finishing		SCMT09T304-TF	9.525	9.525	3.97	4.4	0.4	○					○	●	○							
		SCMT09T308-TF	9.525	9.525	3.97	4.4	0.8	○					○	●	○							
		SCMT120404-TF	12.7	12.7	4.76	5.5	0.4	○					○	●	○							
Semi Finishing		SCMT09T304-TM	9.525	9.525	3.97	4.4	0.4	○	○	○	●		○	●	○							
		SCMT09T308-TM	9.525	9.525	3.97	4.4	0.8	○	○	○	●		○	●	○							
		SCMT120404-TM	12.7	12.7	4.76	5.5	0.4	○	○	○	●		○	●	○							
		SCMT120408-TM	12.7	12.7	4.76	5.5	0.8	○	○	○	●		○	●	○							
		SCMT120412-TM	12.7	12.7	4.76	5.5	1.2	○	○	○	●		○	●	○							
Roughing		SCMT09T304-TR	9.525	9.525	3.97	4.4	0.4	○	○	○	●						●					
		SCMT09T308-TR	9.525	9.525	3.97	4.4	0.8	○	○	○	●						●					
		SCMT120404-TR	12.7	12.7	4.76	5.5	0.4	○	○	○	●						●					
		SCMT120408-TR	12.7	12.7	4.76	5.5	0.8	○	○	○	●						●					
		SCMT120412-TR	12.7	12.7	4.76	5.5	1.2	○	○	○	●						●					

TURNING INSERT (POSITIVE)

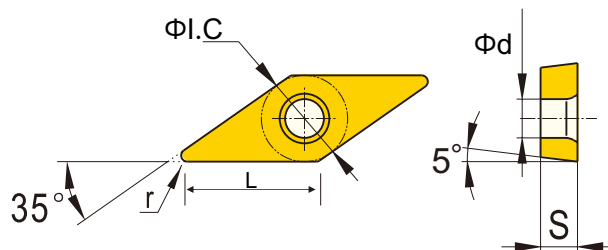
TC□□



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Finishing		TCMT110202-TF	11	6.35	2.38	2.8	0.2	●					○	●	○							
		TCMT110204-TF	11	6.35	2.38	2.8	0.4	●					○	●	○							
		TCMT16T304-TF	16.5	9.525	3.97	4.4	0.4	●					○	●	○							
		TCMT16T308-TF	16.5	9.525	3.97	4.4	0.8	●					○	●	○							
Semi Finishing		TCMT090204-TM	9.6	5.56	2.38	2.5	0.4	○	○	○	●		○	●	○							
		TCMT090208-TM	9.6	5.56	2.38	2.5	0.8	○	○	○	●		○	●	○							
		TCMT110204-TM	11	6.35	2.38	2.8	0.4	○	○	○	●		○	●	○							
		TCMT110208-TM	11	6.35	2.38	2.8	0.8	○	○	○	●		○	●	○							
		TCMT16T304-TM	16.5	9.525	3.97	4.4	0.4	○	○	○	●		○	●	○							
		TCMT16T308-TM	16.5	9.525	3.97	4.4	0.8	○	○	○	●		○	●	○							
		TCMT16T312-TM	16.5	9.525	3.97	4.4	1.2	○	○	○	●		○	●	○							
Roughing		TCMT16T308-TR	16.5	9.525	3.97	4.4	0.8	○	○	○	●						●					
		TCMT220408-TR	22	12.7	4.76	5.5	0.8	○	○	○	●						●					

TURNING INSERT (POSITIVE)

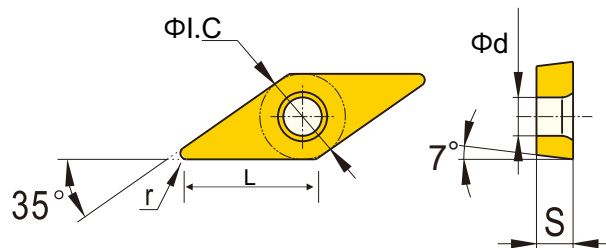
VB



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPS115
Finishing		VBMT160404-TF	16.5	9.525	4.76	4.4	0.4	●					○	●	○							
		VBMT160408-TF	16.5	9.525	4.76	4.4	0.8	●					○	●	○							
Semi Finishing		VBMT110304-TM	11	6.35	3.18	2.8	0.4	○	○	○	●		○	●	○							
		VBMT160404-TM	16.5	9.525	4.76	4.4	0.4	○	○	○	●		○	●	○							
		VBMT160408-TM	16.5	9.525	4.76	4.4	0.8	○	○	○	●		○	●	○							
		VBMT160412-TM	16.5	9.525	4.76	4.4	1.2	○	○	○	●		○	●	○							
		VBMT160404-WMM	16.5	9.525	4.76	4.4	0.4						○	●	○							
		VBMT160404-WSM	16.5	9.525	4.76	4.4	0.4													○	●	●
		VBMT160408-WSM	16.5	9.525	4.76	4.4	0.8													○	●	●
Roughing		VBMT160404-TR	16.5	9.525	4.76	4.4	0.4	○	○	○	●						●					
		VBMT160408-TR	16.5	9.525	4.76	4.4	0.8	○	○	○	●						●					

TURNING INSERT (POSITIVE)

VC □ □



Insert Shape		Order Number	Dimension					P					M				K			S		
			L	ΦI.C	S	Φd	r	WCP015	WCP025	WCP125	WCP225	WCP325	WPM015	WPM115	WPM215	WCM015	WCK010	WCK015	WCK120	WPS205	WPS015	WPST115
Finishing		VCMT110302-TF	11	6.35	3.18	2.8	0.2	●					○	●	○							
		VCMT110304-TF	11	6.35	3.18	2.8	0.4	●					○	●	○							
		VCMT160404-TF	16.5	9.525	4.76	4.4	0.4	●					○	●	○							
Semi Finishing		VCMT160404-TM	16.5	9.525	4.76	4.4	0.4	●					○	●	○							
		VCMT160408-TM	16.5	9.525	4.76	4.4	0.8	●					○	●	○							
		VCMT160408-WSM	16.5	9.525	4.76	4.4	0.8												○	●	●	



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