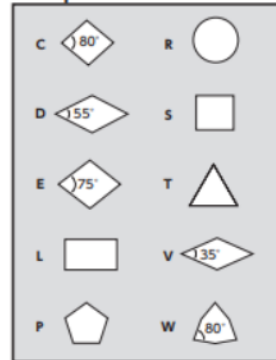


ANSI / ISO Insert Nomenclature

Guide for Insert Description

	1	2	3	4	5
Inch (ANSI)	C	N	G	A	4
Metric (ISO)	C	N	G	A	12

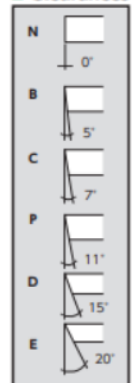
1 Shape



3 Tolerance Class

Symbol	d (inch)	m (inch)	s (inch)
A	±.0010	±.0002	±.0010
F	±.0050	±.0002	±.0010
C	±.0010	±.0005	±.0010
H	±.0050	±.0005	±.0010
E	±.0010	±.0010	±.0010
G	±.0010	±.0010	±.0050
J	±.0020	±.0020	±.0050
K	±.002~±.005	±.0005	±.0010
L	±.002~±.005	±.0010	±.0010
M	±.002~±.005	±.003~±.007	±.0050
N	±.002~±.005	±.003~±.007	±.0010
U	±.003~±.010	±.005~±.015	±.0050

2 Clearances



4 Type

Type	Symbol	Type	Symbol
	N (E)	70°-90°	H
	F	70°-90°	B
	R	40°-60°	T
	A	40°-60°	W
	G		
	M		
Special design	X		

6 Thickness

Thickness S (inch)	Inch	Metric
3/32"	1.5	02
1/8"	2	03
5/32"	2.5	T3
3/16"	3	04
1/4"	4	06
5/16"	5	07
3/8"	6	09
1/2"	8	12

6	7	8	9	10	11	12	13
3	2	P	Q	(W)	T	04	20
04	08	P	Q	(W)	T	010	20
					T	C	E

5 Symbol for Insert Size

Inch	Inscribed Circle	C	D	R	S	A	V	W
1/4"	2	06	07	06	11	11	04	
3/8"	3	09	11	09	16	16	06	
1/2"	4	12	15	12	22	22	08	
5/8"	5	16	19	15	27	27	10	
3/4"	6	19	23	19	33	33	13	
1"	8	25	31	25	44	44	17	

7 Corner Radius

Corner Radius	Inch	Metric
.004	04	01
.008	08	02
.016(1/64")	1	04
.031(1/32")	2	08
.047(3/64")	3	12
.063(1/16")	4	16

8&9 Cutting Edges

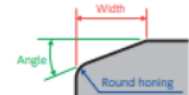
PS	1
PD	2
PT	3
PQ	4
PH	6
PE	8

10 Designation

Wiper	W
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11 Edge Condition 12 Land Width

		Description				
		Inch	metric	A (Land)	r (hone)	
Sharp	FNX	-	-	-	-	-
Chamfered	T	02	.005	.002	B	-
		04	.010	.004	C	-
		05	.013	.005	X	-
		06	.015	.006	E	-
Chamfered and Honed	Z	04	.010	.004	C	.001
		05	.013	.005	X	.001
	S	04	.010	.004	C	.002
		05	.013	.005	X	.002
		06	.015	.006	E	.002
		06	.015	.006	E	.002
Double Chamfered and Honed	P	48	120	.048		.002



13 Negative Land Angle

Description	b
15	D 15°
20	E 20°
25	F 25°
30	F 30°

Note: K, J, P & Q show its primary land angle
Note: K, J, P & Q show its primary land width