TURNING INSERTS

Symbol	Insert Shape	-																
н	Hexagonal		<u> </u>				, aD1				S1			Triangular insert with a facet				
0	Octagonal			_	0,		* · · ·					-		(Secondary Cutting Edge)				
D	Pontagonal		<u>,</u>	③ Symbol for Tolerance Class														
г S	Square			Tole	erance o	f T	olerar	Tolerance of			Detail of M Class Insert Tolerance • Tolerance of Nose Height m (inch)							
т	Triangular		– my	Nos m	se Heigh (inch)	t	Circle			I hickness S1 (inch)		Triongular	Squara	Rhombic	Rhombic	Rhombio	Bound	
-				-	- 0002		φD 1 (I	incn)	+ (001	250		+ 003	+ 003	55° + 004	35°	Round	
C	Rhombic 80°			+	- 0002	_	+ 00	05	+ (001	375	+ 003	+ 003	+ 003	+ 004	+ 0063	_	
D	Rhombic 55°		- <u>C</u> +		: 0005		± 00	00	±.(001	.500	± 005	± 005	± 005	± 006	-	<u>+</u>	
Е	Rhombic 75°		H ±.0005				±.00	005	±.(001	.625	±.006	±.006	±.006	±.007	-	- 1	
F	Rhombic 50°		E		.001		±.00)1	±.(001	.750	±.006	±.006	±.006	±.007	-	-	
м	Rhombic 86°		7 G	±	.001		±.00)1	±.(005	1.000	_	±.007	-	_	-	-	
v	Rhombic 35°		- J		.002		±.00)2	±.(005	1.250	-	±.008	-	-	-	-	
w	Trigon		- K * ±.00		.0005	±.	±.002 - ±.006		±.(001	Tolerance of Instance		of Inscri	ibed Circle Ø) 1 (inch)		
	Destensular			* ±	:.001	±.	002 -	±.006	±.(001	I.C.	Triangular	Square	Rhombic 80°	S5°	Rhombic 35°	Round	
L	Rectangular		<u>M</u>	* ±.00	$\frac{3 - \pm .00}{2}$	7 ±.	002 -	±.006	±.(005	.250	±.002	±.002	±.002	±.002	±.002	-	
Α	Parallelogram 85°			* ±.00	$\frac{3-\pm.00}{5-\pm.01}$	/ ±.	$\frac{002}{002}$	±.006	±.(001	.375	±.002	±.002	±.002	±.002	±.002	±.002	
В	Parallelogram 82°			* <u> </u>	5 - ±.01	5 <u> </u>	003-	±.01	±.(005	.500	±.003	±.003	±.003	±.003	-	±.003	
κ	Parallelogram 55°		As a rule, the sides of these inserts are as sintered. Tolerance differs with insert size. For the accuracy of						ered. acy of	.625	±.004	±.004	±.004	±.004	-	±.004		
R	Round	0	c	class M, refer to the table on the right.						./50	±.004	±.004	±.004	±.004	-	±.004		
х	Special		-								1.250	_	±.005	_	_	_	±.005	
① S	ymbol for Insert Sha	ape						3	Sym	bol for	Toleran	ce Cla	SS					
												0				\ \		
INCH T N M G METRIC T N M G														G G				
				Q Q												4		
2 Sy	mbol for Relief Angle	Symbol for Chipbreaker and Clamping System																
Symbol	Relief Angle	Inch Metric																
Α	3° 🗸		Figure	I.C250" and over	I.C. under .250"	Symbol	Hole	Hole Configura	e ation	Chip Breaker	Figure	Symbol	Hole	Hole Configur	ation B	Chip reaker	Figure	
В	5°	-		Α	D	w	With Hole	Cylindrical	Hole	No		A	With Hole	Cylindr Hole	ical e	No		
D	^°	-		М	Р	т	With Hole	One Count (40-6	ersink O°)	One Sided		м	With Hole	Cylindr Hole	ical (s S	One ided		
Е	20°	- '		G	к	Q	With Hole	Cylindrical	Hole	No		G	With Hole	Cylindr Hole	ical D	ouble Sided		
F	25°	-		N	E	U	With Hole	+ Double Coun (40—6	itersink O°)	Double Sided		N	Without Hole	_		No		
G	30°	-		R	s	в	With Hole	Cylindrical	Hole	No		R	Without Hole	_	(One		
N P	0°	-		F	L	н	With	+ One Count (70-9	ersink 0°)	One		F	Without		D	ouble		
0	Other Relief Angle		Special	v		C	With	Cylindrical	Hole	Ne		v					Special	
		Design X X			U I	Hole + No With Double Countersink Double			Double		-		-	Design				
IVI	ajor Relief Angle					J	1141-	(/0-0)	Uo I	0.4 - 1								

In	ich	Diameter of	Metric													
I.C250"	I.C. under	Inscribed Circle	R		V		<mark>/c/</mark>	s	A	_				/		
and over	.250"	(inch) 156								_	Thickness is from the bottom of the insert to the top of the cutting edge.					
	1.5 (6)	.187		L3 08 05 04 04 08						_	Inch					
	1.8 (7)	.219		03	09	06	05	05	09	_	I.C250"	I.C.	Thickness (inch)	Metric		
2		.250		04	11	07	06	06	11	_	and over	under .250"	(-)			
2.5		.313	00	05	13	09	08	07	13	_	-	0.9	.055	S1		
 		.375	12	08	22	11	12	12	22	_	-	1	.063	01 T0		
		.625	12	10		19	16	15	27	_		1.1	.070			
6	6 .750			13		23	19	19	33	-		- 1.2		02		
7	.875					27	22	22	38	_		1.8	109	T2		
8		1.000	25			31	25	25	44	_	2	-	.125	03		
10	1.250		31			38	32	31	54	_	2.5 –		.156	T3		
	6.00mm		06							_	3 –		.187	04		
	8.00mm		08							_	3.5 –		.219	05		
		12 00mm	12							_	4	4 –		06		
		16.00mm	16							-	5	Ι	.313	07		
		20.00mm	20							_	6	_	.375	09		
	25.00mm 25									_	6 Symbol for Insert Thickness					
		32.00mm	32													
						7										
_					Symbol for Chip Breaker											
												LP N		RP		
	5	6				. /	-									
A		2	2		(Contractor											
4 3 2 (E) (N) -										LM MM			RM			
					_ \		1				And in case			Section 20		
22		04	08		F)		N)	-	MP					-		
														and the second se		
			<i>v</i>		0		9				MA	Sta	ndard	GH		
				Г												
⑦ Symbo	ol for Insert Co	rner Configuration	8 Syn	bol for Cuttin	<mark>⑨ Sy</mark>	mbol for C	Cutting Dir	rection								
Inch	Corner Radiu	^s Metric	Figure	Figure Cutting B		g Edge Symbol		gure	Hand Symbol							
V0	Sharp Nos	e 00		01-							FJ	I	NJ	GJ		
V3	.0012	V3	/	Cutting	arp Edges	F			Right	R			100	C		
V5	.002	V5					7/////						2			
0.2	.004	01	_	Roi	und	-			۱۵ft							
0.5	008	02	/	Cutting	Edges	E	→ ◇	4	LGIL	-	FV		SV	MV		
1	016	04														
	.010	04		Chamfer		т	т —		Neutral	Ν			20			
	.031	00	Cutting Edge								EU		211	ML		
3	.047	12	_	Cham	fered						FH					
4	.063	16	_	and Ro	ounded	S					100	3 54	-	400		
5	.079	20	Cutting Edges								Zanis		-1			
6	.094	24	- N/i+c						47		-IX	HV				
7	.110	.110 28 INITSUDISH Materials omit the honing symbol.							ΠΖ							
8	.126	32										-				
00	Round Inse	rt MO	_									à 🗳				