All-hou Grand Sea Cemented Carbide Co, .ltd is the wholly owned subsidiary of Hohlhou Grand Sea GroupwhichisSino-Foreign Joint Venture is invested by Kyocera Corporation.

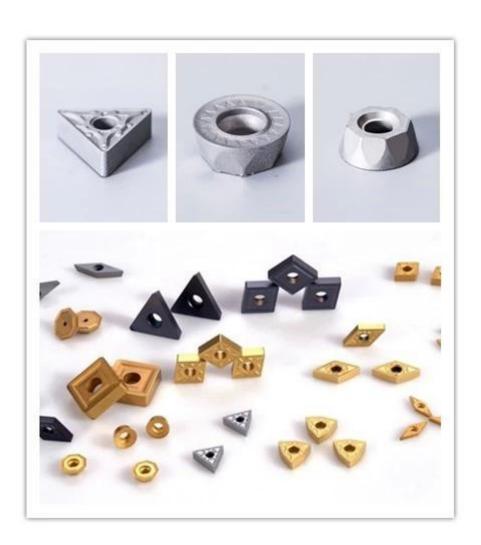
Now carbideinsertionProject is the key development project ofBigseaCeneted.hard metal, Grand.sea Has 5 electric presses imported from Japan,to producehard metalinsertion2.millionPerMonth.

#### Ouradvantage

- 1. 100% tungsten carbide raw material.
- 2. R & D and production capability to keep up with the market trends.
- 3. Technical support to solve the processing solutions for customers in all aspects.
- 4. Reasonable stock to ensure fast delivery.
- 5. We are the supplier that can wholesale and customize the carbide inserts for you.

#### The Gardin Recommendation:

Degree	Toilet %	bullet %	Grain (Ah)	density $(G / cm^3) \pm 0.1$	hardness (HRA) ± 0.5	TRS. (kgf / mm²)
H10f.	90.	10.	0.8.	14.40.	91.8.	> 350.
H11f.	87.	12.	0.3.	14.50.	91.4.	> 350.
H12a	88.	22.	1.2.	14.20.	90.5.	> 350.





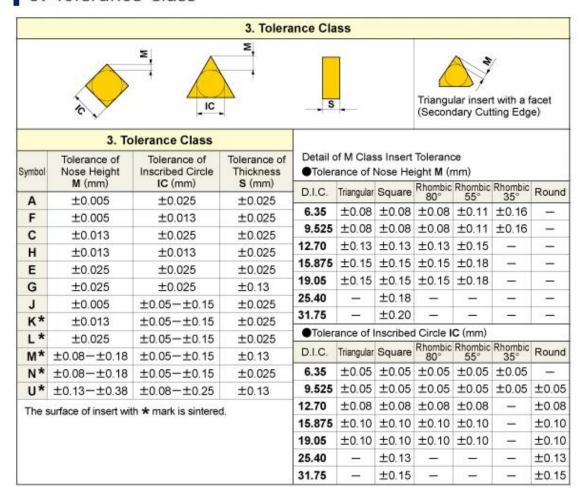
# 1. Insert Shape

	1. Insert Shape	
Symbol	Insert Shape	
Н	Hexagonal	
0	Octagonal	
Р	Pentagonal	
S	Square	
Т	Triangular	
С	Rhombic 80°	
D	Rhombic 55°	
E	Rhombic 75°	
F	Rhombic 50°	
М	Rhombic 86°	
V	Rhombic 35°	0
w	Trigon	
L	Rectangular	
Α	Parallelogram 85°	
В	Parallelogram 82°	
K	Parallelogram 55°	
R	Round	0
х	Special Design	0

### 2. Relief Angle

	2. Relief	Angle
ymbol	Normal	Clearance
Α	3°	V
В	5°	V
С	7°	V
D	15°	V
E	20°	V
F	25°	V
G	30°	V
N	0°	, I
Р	11°	V
0	Other Re	lief Angle

#### 3. Tolerance Class



#### 4. Chipbreaker and Clamping System

			4.	Chipbreaker a	ind CI	amping S	System		
				Me	etric				
Symbol	Hole	Hole Configuration	Chip Breaker	Figure	Symbol	Hole	Hole Configuration	Chip Breaker	Figure
w	With Hole	Cylindrical Hole	No		Α	With Hole	Cylindrical Hole	No	
Т	With Hole	One Countersink (40-60°)	One Sided		M	With Hole	Cylindrical Hole	Single Sided	
Q	With Hole	Cylindrical Hole	No		G	With Hole	Cylindrical Hole	Double Sided	
U	With Hole	Double Countersink (40—60°)	Double Sided		N	Without Hole	<del>m</del> s	No	
В	With Hole	Cylindrical Hole	No		R	Without Hole	<del></del> 8	Single Sided	
н	With Hole	One Countersink (70-90°)	One Sided		F	Without Hole	50	Double Sided	
С	With Hole	Cylindrical Hole	No		х		<del></del>	-	Special Design
J	With Hole	Double Countersink (70—90°)	Double Sided						

#### 5. Insert Size

### 6. Insert Thickness

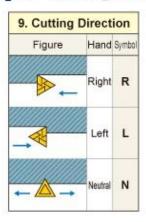
	5. Insert Size				6. Insert Thickness				
			Symbol				Diameter of	J-00 00 00 00 00 00 00 00 00 00 00 00 00	
R	<u>_</u>	V	<b>D</b>	(C)	5	<u>A</u>	Inscribed Circle (mm)	-	
	02		04	03	03	06	3.97		. \
	L3	08	05	04	04	08	4.76	*Thickness is from	n the bottom of the inser
	03	09	06	05	05	09	5.56	to the top of the	cutting edge.
06							6.00	Symbol	Thickness (mm)
	04	11	07	06	06	11	6.35	64	4.20
	05	13	09	08	07	13	7.94	S1	1.39
80							8.00	01	1.59
09	06	16	11	09	09	16	9.525	T0	1.79
10							10.00	100000	1000
12							12.00	02	2.38
12	08	22	15	12	12	22	12.70	T2	2.78
15	10		19	16	15	27	15.875	27542220	7.00+90.000
16							16.00	03	3.18
19	13		23	19	19	33	19.05	T3	3.97
20							20.00	04	4.76
			27	22	22	38	22.225	(7.3)	150,510,75
25							25.00	06	6.35
25			31	25	25	44	25.40	07	7.94
31			38	32	31	54	31.75	090919	0.69390.80
32							32.00	09	9.52

# 7. Insert Corner Configuration 8. Cutting Edge Condition

7. Insert Corn	er Configuration
Symbol	Corner Radius (mm)
00	Sharp Nose
V3	0.03
V5	0.05
01	0.1
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
20	2.0
24	2.4
28	2.8
32	3.2
00 : Inch M0 : Metric	Round Insert

Figure	Cutting Edge	Symbol
	Sharp Cutting Edges	F
	Round Cutting Edges	E
	Chamfered Cutting Edges	т
	Chamfered and Rounded Cutting Edges	s

# 9. Cutting Direction



# 10. Chip Breaker

LP	MP	RP
LM	MM	RM
LK	MK	RK
6	<b>.</b>	0
LS	MS	RS
0	9	0
FP	LP	MP
MA	SW	MW
0		
HZ	нх	HV