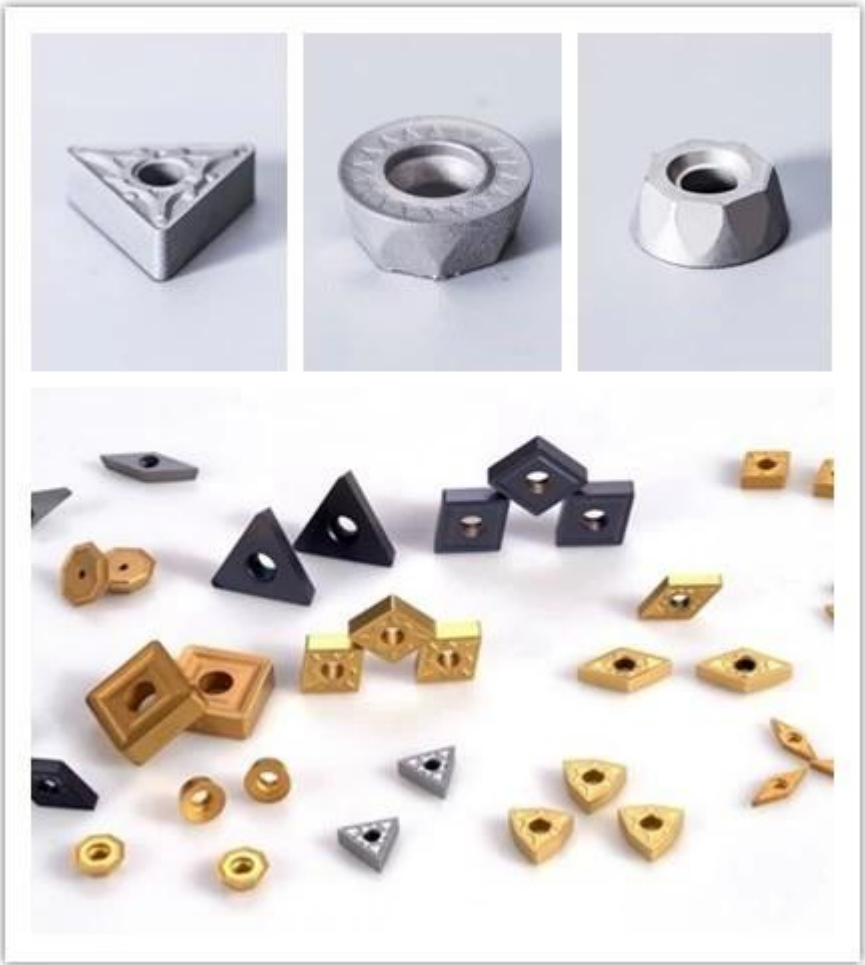


Ganzhou Grand Sea Cemented Carbide Co, .Ltd 赣州 钨钼硬质合金有限公司 Ganzhou Grand Sea Group 赣州钨钼硬质合金有限公司 Sino - 日本京瓷株式会社 Kyocera Corporation

本公司专业生产钨钼硬质合金产品，产品广泛应用于各种工业领域，如机械加工、模具制造、矿山机械等。本公司拥有先进的生产设备和专业的技术团队，产品质量稳定，交货及时。本公司产品远销国内外，深受客户好评。本公司产品规格齐全，可满足客户的不同需求。本公司产品价格合理，性价比高。本公司产品售后服务周到，客户至上。本公司产品规格如下：

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1. 钨钼硬质合金产品规格 100%
2. R & D 钨钼硬质合金产品规格 100%
3. 钨钼硬质合金产品规格 100%
4. 钨钼硬质合金产品规格 100%
5. 钨钼硬质合金产品规格 100%



1 2 3 4 5 6 7 8 9 10
C N M G 12 04 08 (E) (N)-MP

1. Insert Shape

1. Insert Shape		
Symbol	Insert Shape	
H	Hexagonal	
O	Octagonal	
P	Pentagonal	
S	Square	
T	Triangular	
C	Rhombic 80°	
D	Rhombic 55°	
E	Rhombic 75°	
F	Rhombic 50°	
M	Rhombic 86°	
V	Rhombic 35°	
W	Trigon	
L	Rectangular	
A	Parallelogram 85°	
B	Parallelogram 82°	
K	Parallelogram 55°	
R	Round	
X	Special Design	

2. Relief Angle

2. Relief Angle		
Symbol	Normal Clearance	
A	3°	
B	5°	
C	7°	
D	15°	
E	20°	
F	25°	
G	30°	
N	0°	
P	11°	
O	Other Relief Angle	
Major Relief Angle		

3. Tolerance Class

3. Tolerance Class

Triangular insert with a facet
(Secondary Cutting Edge)

3. Tolerance Class

Detail of M Class Insert Tolerance

●Tolerance of Nose Height M (mm)

D.I.C.	Triangular	Square	Rhombic 80°	Rhombic 55°	Rhombic 35°	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	—
12.70	±0.13	±0.13	±0.13	±0.15	—	—
15.875	±0.15	±0.15	±0.15	±0.18	—	—
19.05	±0.15	±0.15	±0.15	±0.18	—	—
25.40	—	±0.18	—	—	—	—
31.75	—	±0.20	—	—	—	—

●Tolerance of Inscribed Circle IC (mm)

D.I.C.	Triangular	Square	Rhombic 80°	Rhombic 55°	Rhombic 35°	Round
6.35	±0.05	±0.05	±0.05	±0.05	±0.05	—
9.525	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05
12.70	±0.08	±0.08	±0.08	±0.08	—	±0.08
15.875	±0.10	±0.10	±0.10	±0.10	—	±0.10
19.05	±0.10	±0.10	±0.10	±0.10	—	±0.10
25.40	—	±0.13	—	—	—	±0.13
31.75	—	±0.15	—	—	—	±0.15

The surface of insert with * mark is sintered.

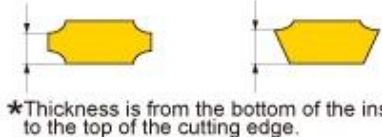
4. Chipbreaker and Clamping System

4. Chipbreaker and Clamping System									
Metric									
Symbol	Hole	Hole Configuration	Chip Breaker	Figure	Symbol	Hole	Hole Configuration	Chip Breaker	Figure
W	With Hole	Cylindrical Hole	No		A	With Hole	Cylindrical Hole	No	
T	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	—	No	
B	With Hole	Cylindrical Hole	No		R	Without Hole	—	Single Sided	
H	With Hole	One Countersink (70—90°)	One Sided		F	Without Hole	—	Double Sided	
C	With Hole	Cylindrical Hole	No		X	—	—	—	Special Design
J	With Hole	Double Countersink (70—90°)	Double Sided						

5. Insert Size

5. Insert Size							
Symbol							Diameter of Inscribed Circle (mm)
							
	02		04	03	03	06	3.97
	L3	08	05	04	04	08	4.76
	03	09	06	05	05	09	5.56
06							6.00
	04	11	07	06	06	11	6.35
	05	13	09	08	07	13	7.94
08							8.00
09	06	16	11	09	09	16	9.525
10							10.00
12							12.00
12	08	22	15	12	12	22	12.70
15	10		19	16	15	27	15.875
16							16.00
19	13		23	19	19	33	19.05
20							20.00
			27	22	22	38	22.225
25							25.00
25			31	25	25	44	25.40
31			38	32	31	54	31.75
32							32.00

6. Insert Thickness

6. Insert Thickness	
	
Symbol	Thickness (mm)
S1	1.39
01	1.59
T0	1.79
02	2.38
T2	2.78
03	3.18
T3	3.97
04	4.76
06	6.35
07	7.94
09	9.52

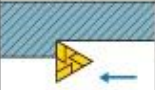
7. Insert Corner Configuration

7. Insert Corner 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

8. Cutting Edge Condition

8. Cutting Edge Condition		
Figure	Cutting Edge	Symbol
	Sharp Cutting Edges	F
	Round Cutting Edges	E
	Chamfered Cutting Edges	T
	Chamfered and Rounded Cutting Edges	S
Mitsubishi Materials omit the honing symbol.		

9. Cutting Direction

9. Cutting Direction		
Figure	Hand	Symbol
	Right	R
	Left	L
	Neutral	N

10. Chip Breaker

10. Chip Breaker		
LP	MP	RP
		
LM	MM	RM
		
LK	MK	RK
		
LS	MS	RS
		
FP	LP	MP
		
MA	SW	MW
		
HZ	HX	HV
		