

## Solid & Soldering PCBN Inserts

Thoroughly brazed pcbn inserts



PCBN Tools have exceptional performance for precision machining variety of hardened, abrasive ferrous, and/or super alloy materials.

For exmple, hardened steel (HRC45-65), Grey Cast Iron (HB200-280), Hot/Cold worked Tool Steel (HRC45-65), High Speed Steel (HRC45-65), Bearing Steel (HRC45-65), Sintered Iron, Nickel-Base Alloy, Tungsten-Base Alloy, Powder Metal, etc. It is stable under conditions of high temperature (up to 1500°C).

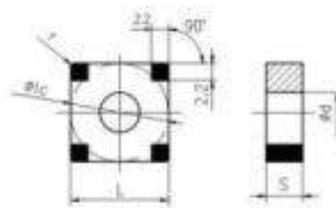




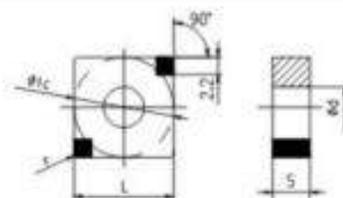
CBN Inserts do not react chemically with iron and are very ideal for processing hard ferrous metals, such as hardened steels, grey cast iron.

CBN Inserts are mostly used to process brake discs ,engine blocks, engine cylinder liners, brake drumsticks, valve seats and guides, gears and mould etc



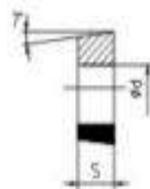
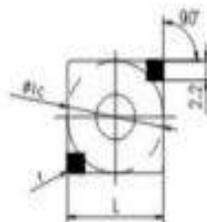


Insert Type	Dimensions					Standard cutting edge
	L	Ø i.c	s	r	Ø d	
ISO						
SNGA120402-8S	12	12.7	4.76	0.2	5.16	T01020 T02020 S01020 S02020
SNGA120404-8S	12	12.7	4.76	0.4	5.16	
SNGA120408-8S	12	12.7	4.76	0.8	5.16	
SNGA120412-8S	12	12.7	4.76	1.2	5.16	
SNGA120416-8S	12	12.7	4.76	1.6	5.16	

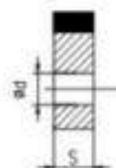
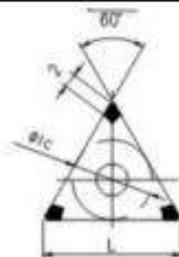


Insert Type	Dimensions					Standard cutting edge
	L	Ø i.c	s	r	Ø d	
ISO						
SNGA120402-4S	12	12.7	4.76	0.2	5.16	T01020 T02020 S01020 S02020
SNGA120404-4S	12	12.7	4.76	0.4	5.16	
SNGA120408-4S	12	12.7	4.76	0.8	5.16	
SNGA120412-4S	12	12.7	4.76	1.2	5.16	
SNGA120416-4S	12	12.7	4.76	1.6	5.16	



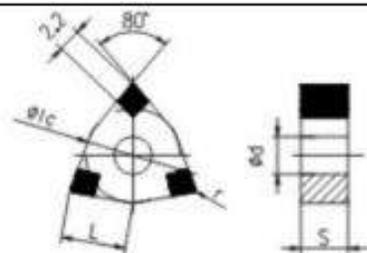


Insert Type	Dimensions						Standard cutting edge
	L	Ø i.c	s	r	Ø d1	Ø d2	
ISO							
SCGW09T304-2S	9.7	9.525	3.97	0.4	4.4	6	T01020
SCGW09T308-2S	9.7	9.525	3.97	0.8	4.4	6	T02020
SCGW09T312-2S	9.7	9.525	3.97	1.2	4.4	6	S01020 S02020

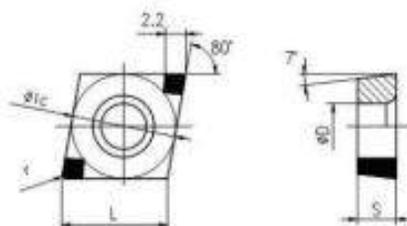


Insert Type	Dimensions					Standard cutting edge
	L	Ø i.c	s	r	Ø d	
ISO						
TNGA160404-6S	16.5	9.525	4.76	0.4	3.81	T01020 T02020 S01020 S02020
TNGA160408-6S	16.5	9.525	4.76	0.8	3.81	
TNGA160412-6S	16.5	9.525	4.76	1.2	3.81	
TNGA220404-6S	22	12.7	4.76	0.4	5.16	
TNGA220408-6S	22	12.7	4.76	0.8	5.16	
TNGA220412-6S	22	12.7	4.76	1.2	5.16	



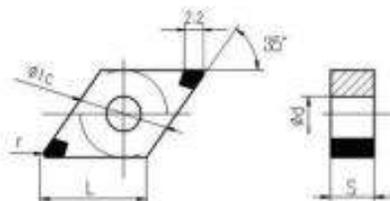


Insert Type	Dimensions					Standard cutting edge
	L	$\varnothing i.c$	s	r	$\varnothing d$	
ISO						
WNGA060404-6S	6.5	9.525	4.76	0.4	3.81	T01020 T02020 S01020 S02020
WNGA060408-6S	6.5	9.525	4.76	0.8	3.81	
WNGA060412-6S	6.5	9.525	4.76	1.2	3.81	
WNGA080404-6S	8.7	12.7	4.76	0.4	5.16	
WNGA080408-6S	8.7	12.7	4.76	0.8	5.16	
WNGA080412-6S	8.7	12.7	4.76	1.2	5.16	

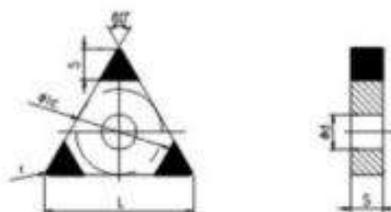


Insert Type	Dimensions						Standard cutting edge
	L	$\varnothing i.c$	s	r	$\varnothing d1$	$\varnothing d2$	
ISO							
CCGW09T304-2S	9.7	9.525	3.97	0.4	4.4	6	T01020 T02020 S01020 S02020
CCGW09T308-2S	9.7	9.525	3.97	0.8	4.4	6	
CCGW09T312-2S	9.7	9.525	3.97	1.2	4.4	6	
CCGW120404-2S	12.9	12.7	4.76	0.4	5.5	7.5	
CCGW120408-2S	12.9	12.7	4.76	0.8	5.5	7.5	
CCGW120412-2S	12.9	12.7	4.76	1.2	5.5	7.5	



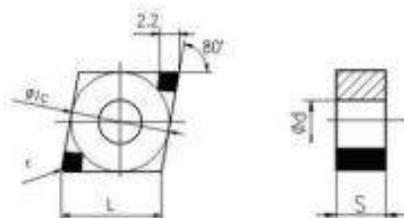


Insert Type	Dimensions					Standard cutting edge
	L	Ø i.c.	s	r	Ø d	
ISO						
DNGA110404-4S	11.6	9.525	4.76	0.4	3.81	T01020 T02020 S01020 S02020
DNGA110408-4S	11.6	9.525	4.76	0.8	3.81	
DNGA110412-4S	11.6	9.525	4.76	1.2	3.81	
DNGA150404-4S	15.5	12.7	4.76	0.4	5.16	
DNGA150408-4S	15.5	12.7	4.76	0.8	5.16	
DNGA150412-4S	15.5	12.7	4.76	1.2	5.16	
DNGA150604-4S	15.5	12.7	6.35	0.4	5.16	
DNGA150608-4S	15.5	12.7	6.35	0.8	5.16	
DNGA150612-4S	15.5	12.7	6.35	1.2	5.16	

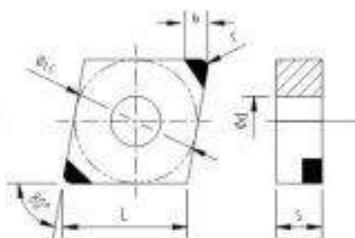
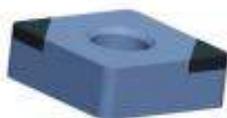


Insert Type	Dimensions					Standard cutting edge
	L	Ø i.c.	s	r	Ø d	
ISO						
TNGA220404	22	12.7	4.76	0.4	5.16	T01020 T02020 S01020 S02020
TNGA220408	22	12.7	4.76	0.8	5.16	
TNGA220412	22	12.7	4.76	1.2	5.16	
TNGA220416	22	12.7	4.76	1.6	5.16	



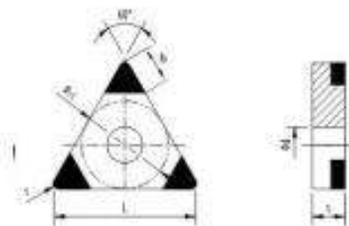


Insert Type	Dimensions					Standard cutting edge
	L	Ø i.c.	s	r	Ø d	
CNGA120404-4S	12.9	12.7	4.76	0.4	5.16	T01020 T02020 S01020 S02020
CNGA120408-4S	12.9	12.7	4.76	0.8	5.16	
CNGA120412-4S	12.9	12.7	4.76	1.2	5.16	

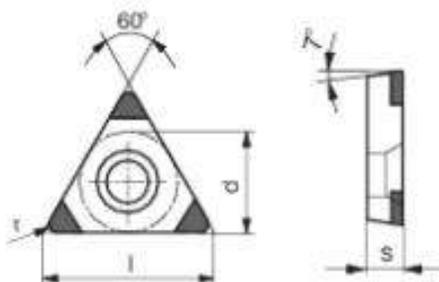
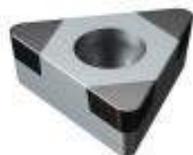


Insert Type	Dimensions					Standard cutting edge
	L	Ø i.c.	s	r	Ø d	
CNGA120402-2S	12.9	12.7	4.76	0.2	5.16	T01020 T02020 S01020 S02020
CNGA120404-2S	12.9	12.7	4.76	0.4	5.16	
CNGA120408-2S	12.9	12.7	4.76	0.8	5.16	
CNGA120412-2S	12.9	12.7	4.76	1.2	5.16	



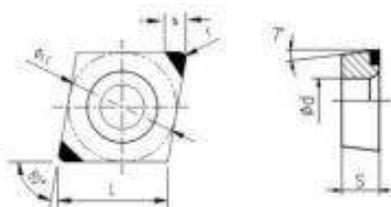


Insert Type	Dimensions					Standard cutting edge
	L	Ø i.c	s	r	Ø d	
ISO						
TNGA160402-3S	16	9.525	4.76	0.2	3.81	T01020 T02020 S01020 S02020
TNGA160404-3S	16	9.525	4.76	0.4	3.81	
TNGA160408-3S	16	9.525	4.76	0.8	3.81	
TNGA160412-3S	16	9.525	4.76	1.2	3.81	
TNGA060416-3S	16	9.525	4.76	1.6	3.81	
TNGA220402-3S	22	12.7	4.76	0.2	5.16	
TNGA220404-3S	22	12.7	4.76	0.4	5.16	
TNGA220408-3S	22	12.7	4.76	0.8	5.16	
TNGA220412-3S	22	12.7	4.76	1.2	5.16	
TNGA220416-3S	22	12.7	4.76	1.6	5.16	

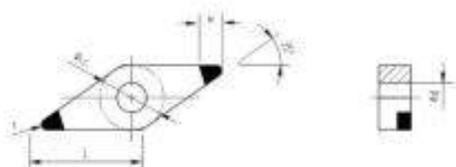


Insert Type	Dimensions						Standard cutting edge
	L	Ø i.c	s	r	Ø d1	Ø d2	
ISO							
TCGW090202-3S	9.6	5.56	2.38	0.2	2.5	3.3	T01020 T02020 S01020 S02020
TCGW090204-3S	9.6	5.56	2.38	0.4	2.5	3.3	
TCGW090208-3S	9.6	5.56	2.38	0.8	2.5	3.3	
TCGW110302-3S	11	6.35	3.18	0.2	3.4	3.75	
TCGW110304-3S	11	6.35	3.18	0.4	3.4	3.75	
TCGW110308-3S	11	6.35	3.18	0.8	3.4	3.75	
TCGW110312-3S	11	6.35	3.18	1.2	3.4	3.75	



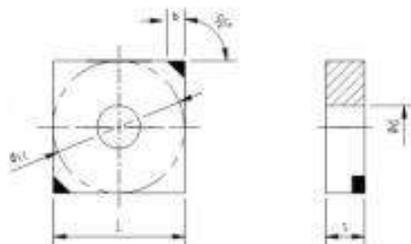
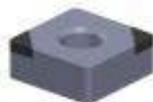


Insert Type	Dimensions					Standard cutting edge
	L	Ø i.c	s	r	Ø d	
ISO						
CCGW09T302-2S	9.7	9.525	3.97	0.2	4.4	T01020 T02020 S01020 S02020
CCGW09T304-2S	9.7	9.525	3.97	0.4	4.4	
CCGW09T308-2S	9.7	9.525	3.97	0.8	4.4	
CCGW09T312-2S	9.7	9.525	3.97	1.2	4.4	
CCGW120402-2S	12.9	12.7	4.76	0.2	5.5	
CCGW120404-2S	12.9	12.7	4.76	0.4	5.5	
CCGW120408-2S	12.9	12.7	4.76	0.8	5.5	
CCGW120412-2S	12.9	12.7	4.76	1.2	5.5	

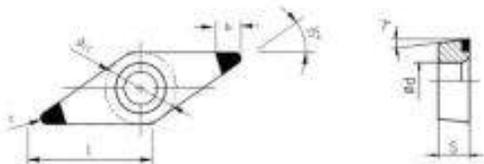


Insert Type	Dimensions					Standard cutting edge
	L	Ø i.c	s	r	Ø d	
ISO						
VNGA160402-2S	16.6	9.525	4.76	0.2	3.81	T01020 T02020 S01020 S02020
VNGA160404-2S	16.6	9.525	4.76	0.4	3.81	
VNGA160408-2S	16.6	9.525	4.76	0.8	3.81	
VNGA160412-2S	16.6	9.525	4.76	1.2	3.81	



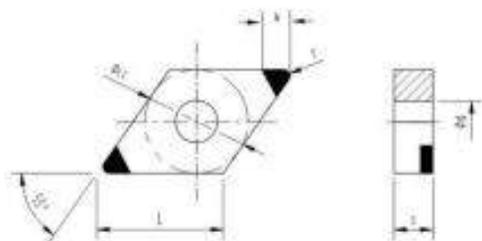


Insert Type	Dimensions					Standard cutting edge
	L	Ø i.c	s	r	Ø d	
ISO						
SNGA120402-2S	12.7	12.7	4.76	0.2	5.16	T01020 T02020 S01020 S02020
SNGA120402-2S	12.7	12.7	4.76	0.4	5.16	
SNGA120402-2S	12.7	12.7	4.76	0.8	5.16	
SNGA120402-2S	12.7	12.7	4.76	1.2	5.16	

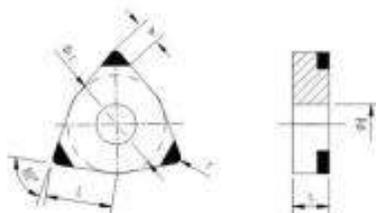


Insert Type	Dimensions					Standard cutting edge
	L	Ø i.c	s	r	Ø d	
ISO						
VCGW110302	11	6.35	3.18	0.2	2.8	T01020 T02020 S01020 S02020
VCGW110304	11	6.35	3.18	0.4	2.8	
VCGW110308	11	6.35	3.18	0.8	2.8	
VCGW110312	11	6.35	3.18	1.2	2.8	
VCGW160402-2S	16.6	9.525	4.76	0.2	4.4	
VCGW160404-2S	16.6	9.525	4.76	0.4	4.4	
VCGW160408-2S	16.6	9.525	4.76	0.8	4.4	
VCGW160412-2S	16.6	9.525	4.76	1.2	4.4	





Insert Type	Dimensions					Standard cutting edge
	L	Ø i.c	s	r	Ø d	
ISO						
DNGA110402-2S	11	9.525	4.76	0.2	3.81	T01020 T02020 S01020 S02020
DNGA110404-2S	11	9.525	4.76	0.4	3.81	
DNGA110408-2S	11	9.525	4.76	0.8	3.81	
DNGA150402-2S	15.5	12.7	4.76	0.2	5.16	
DNGA150404-2S	15.5	12.7	4.76	0.4	5.16	
DNGA150408-2S	15.5	12.7	4.76	0.8	5.16	
DNGA150412-2S	15.5	12.7	4.76	1.2	5.16	



Insert Type	Dimensions					Standard cutting edge
	L	Ø i.c	s	r	Ø d	
ISO						
WNGA060402-2S	6	9.525	4.76	0.2	3.81	T01020 T02020 S01020 S02020
WNGA060404-2S	6	9.525	4.76	0.4	3.81	
WNGA060408-2S	6	9.525	4.76	0.8	3.81	
WNGA080402-2S	8.7	12.7	4.76	0.2	5.16	
WNGA080404-2S	8.7	12.7	4.76	0.4	5.16	
WNGA080408-2S	8.7	12.7	4.76	0.8	5.16	
WNGA080412-2S	8.7	12.7	4.76	0.2	5.16	



**About Us:**

- 1) CBN grades imported from E6 (UK), Sumitomo(Japan), ILJIN (Korea) allow MAX productivity and stable performance
- 2) CBN is applied by Vacuum Brazing process to ensure no welding scar and tip uneasy to drop
- 3) C.N.C grinding and inspection equipments imported from UK, Germany, Japan
- 4) Inspection in every process to ensure 100% qualified
- 5) Pass ISO9001:2008

**Quality 100% controlled by various devices in every process:**

C.N.C diamond grinder COBORN RG9 imported from UK  
Japan FANUC WEDM-LS,  
Swiss Agie Charmilles,  
Germany VOLLMER EDM Sharpener





# More Superhard Products Co.,Ltd



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Email : [sales@moresuperhard.com](mailto:sales@moresuperhard.com)

Web: [www.moresuperhard.com](http://www.moresuperhard.com)

