

Hardstone
Efficient
Cutting tools
顽石, 高效切削刀具



铸铁车削 INSERTS FOR CAST IRON
ALUMINIUM MACHINING 铝合金车削



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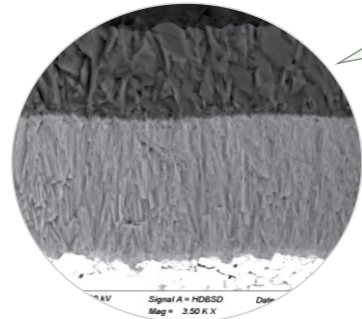
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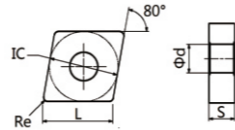
Grade Introduction



WS6115

Thickened Black Diamond CVD coating with special after-treatment contributes to excellent wear resistance and roughness. The coating, matched with specific substrate, is widely used in cast iron machining with strong universality.

The first choice for gray iron and ductile iron turning. With good comprehensive performances, it can be used for intermittent processing as well. Also suitable for roughing of hardened steel and high-strength steel at low speed.



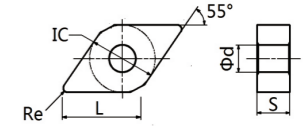
Type Series

80° CN□□ with hole

Insert Shape	Designation	Specification (mm)					Grade CVD coating WS6115
		L	IC	S	ød	Re	
	CNMA120404	12.9	12.7	4.76	5.16	0.4	●
	CNMA120408	12.9	12.7	4.76	5.16	0.8	●
	CNMA120412	12.9	12.7	4.76	5.16	1.2	●
	CNMA160608	16.1	15.875	6.35	6.35	0.8	●
	CNMA160612	16.1	15.875	6.35	6.35	1.2	●
	CNMA160616	16.1	15.875	6.35	6.35	1.6	●
	CNMA190612	19.3	19.05	6.35	7.94	1.2	●
CNMA190616	19.3	19.05	6.35	7.94	1.6	●	
	CNMG120404	12.9	12.7	4.76	5.16	0.4	●
	CNMG120408	12.9	12.7	4.76	5.16	0.8	●
	CNMG120412	12.9	12.7	4.76	5.16	1.2	●
	CNMG120416	12.9	12.7	4.76	5.16	1.6	●
	CNMG160608	16.1	15.875	6.35	6.35	0.8	●
	CNMG160612	16.1	15.875	6.35	6.35	1.2	●
	CNMG160616	16.1	15.875	6.35	6.35	1.6	●
	CNMG190612	19.3	19.05	6.35	7.94	1.2	●
CNMG190616	19.3	19.05	6.35	7.94	1.6	●	

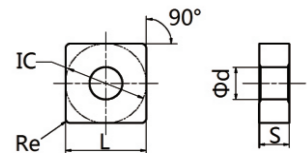
Note : ○ Make to order ● Recommended grade △ Accept reservation

55° DN□□ with hole



Insert Shape	Designation	Specification (mm)					Grade CVD coating WS6115
		L	IC	S	ød	Re	
	DNMA150404	15.5	12.7	4.76	5.16	0.4	●
	DNMA150408	15.5	12.7	4.76	5.16	0.8	●
	DNMA150412	15.5	12.7	4.76	5.16	1.2	●
	DNMA150604	15.5	12.7	6.35	5.16	0.4	●
	DNMA150608	15.5	12.7	6.35	5.16	0.8	●
	DNMA150612	15.5	12.7	6.35	5.16	1.2	●
	DNMG150404	15.5	12.7	4.76	5.16	0.4	●
	DNMG150408	15.5	12.7	4.76	5.16	0.8	●
	DNMG150412	15.5	12.7	4.76	5.16	1.2	●
	DNMG150604	15.5	12.7	6.35	5.16	0.4	●
	DNMG150608	15.5	12.7	6.35	5.16	0.8	●
	DNMG150612	15.5	12.7	6.35	5.16	1.2	●

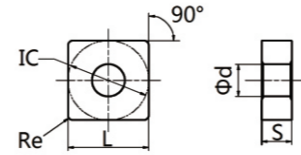
90° SN□□ with hole



Insert Shape	Designation	Specification (mm)					Grade CVD coating WS6115
		L	IC	S	ød	Re	
	SNMA120404	12.7	12.7	4.76	5.16	0.4	●
	SNMA120408	12.7	12.7	4.76	5.16	0.8	●
	SNMA120412	12.7	12.7	4.76	5.16	1.2	●
	SNMA150608	15.875	15.875	6.35	6.35	0.8	●
	SNMA150612	15.875	15.875	6.35	6.35	1.2	●
	SNMA150616	15.875	15.875	6.35	6.35	1.6	●
	SNMA190612	19.05	19.05	6.35	6.35	1.2	●
	SNMA190616	19.05	19.05	6.35	6.35	1.6	●

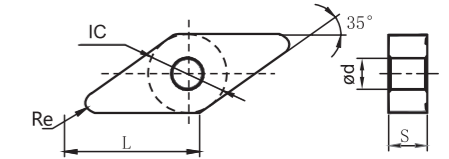
Note : ○ Make to order ● Recommended grade △ Accept reservation

90° SN□□ with hole



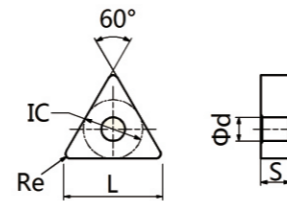
Insert Shape	Designation	Specification (mm)					Grade
		L	IC	S	ød	Re	CVD coating
	SNMG120404	12.7	12.7	4.76	5.16	0.4	●
	SNMG120408	12.7	12.7	4.76	5.16	0.8	●
	SNMG120412	12.7	12.7	4.76	5.16	1.2	●
	SNMG150608	15.875	15.875	6.35	6.35	0.8	●
	SNMG150612	15.875	15.875	6.35	6.35	1.2	●
	SNMG150616	15.875	15.875	6.35	6.35	1.6	●
	SNMG190612	19.05	19.05	6.35	6.35	1.2	●
	SNMG190616	19.05	19.05	6.35	6.35	1.6	●

35° VN□□ with hole



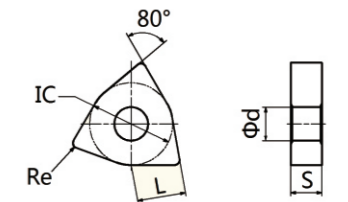
Insert Shape	Designation	Specification (mm)					Grade
		L	IC	S	ød	Re	CVD coating
	VNMA160404	16.6	9.525	4.76	3.81	0.4	●
	VNMA160408	16.6	9.525	4.76	3.81	0.8	●
	VNMG160404	16.6	9.525	4.76	3.81	0.4	●
	VNMG160408	16.6	9.525	4.76	3.81	0.8	●

60° TN□□ with hole



Insert Shape	Designation	Specification (mm)					Grade
		L	IC	S	ød	Re	CVD coating
	TNMA160404	16.5	9.525	4.76	3.81	0.4	●
	TNMA160408	16.5	9.525	4.76	3.81	0.8	●
	TNMA160412	16.5	9.525	4.76	3.81	1.2	●
	TNMA220408	22	12.7	4.76	5.16	0.8	●
	TNMA220412	22	12.7	4.76	5.16	1.2	●
	TNMA220416	22	12.7	4.76	5.16	1.6	●
	TNMG160404	16.5	9.525	4.76	3.81	0.4	●
	TNMG160408	16.5	9.525	4.76	3.81	0.8	●
	TNMG160412	16.5	9.525	4.76	3.81	1.2	●
	TNMG220412	22	12.7	4.76	5.16	1.2	●
	TNMG220416	22	12.7	4.76	5.16	1.6	●

80° WN□□ with hole



Insert Shape	Designation	Specification (mm)					Grade
		L	IC	S	ød	Re	CVD coating
	WNMA080404	8.7	12.7	4.76	5.16	0.4	●
	WNMA080408	8.7	12.7	4.76	5.16	0.8	●
	WNMA080412	8.7	12.7	4.76	5.16	1.2	●
	WNMG080404	8.7	12.7	4.76	5.16	0.4	●
	WNMG080408	8.7	12.7	4.76	5.16	0.8	●
	WNMG080412	8.7	12.7	4.76	5.16	1.2	●

Note : ○ Make to order ● Recommended grade △ Accept reservation

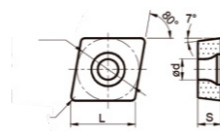
Note : ○ Make to order ● Recommended grade △ Accept reservation

Introduction of grade WSK10

- ⊙ Fine and even particles of substrate with good features of bending strength and wear resistance. High accuracy nose and cutting edge ensure the sharpness and stable integrated performance.
- ⊙ Used for turning and milling of non-ferrous alloys (aluminum, copper and etc.), graphite and cast iron. It is also can be used for turning of titanium alloys and super alloy at low speed.

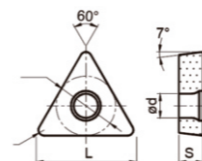
Type Series

80° CC□□with hole



Insert Shape	Designation	Specification (mm)					Grade
		L	IC	S	ød	Re	Without coating
	CCGT060202-AK	6.4	6.35	2.38	2.8	0.2	●
	CCGT060204-AK	6.4	6.36	2.38	2.8	0.4	●
	CCGT09T304-AK	9.7	9.525	3.97	4.4	0.4	●
	CCGT09T308-AK	9.7	9.525	3.97	4.4	0.8	●
	CCGT120404-AK	12.9	12.7	4.76	5.56	0.4	●
	CCGT120408-AK	12.9	12.7	4.76	5.56	0.8	●

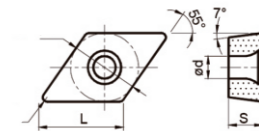
55° TC□□with hole



Insert Shape	Designation	Specification (mm)					Grade
		L	IC	S	ød	Re	Without coating
	TCGT090204-AK	9.7	5.56	2.38	2.8	0.4	●
	TCGT110204-AK	11	6.35	2.38	2.8	0.4	●
	TCGT16T304-AK	16.5	9.525	3.97	4.4	0.4	●

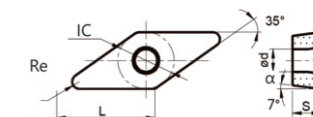
Note : ○ Make to order ● Recommended grade △ Accept reservation

60° DC□□with hole



Insert Shape	Designation	Specification (mm)					Grade
		L	IC	S	ød	Re	Without coating
	DCGT070202-AK	7.8	6.35	2.38	2.8	0.2	●
	DCGT070204-AK	7.8	6.35	2.38	2.8	0.4	●
	DCGT11T302-AK	11.6	9.525	3.97	4.4	0.2	●
	DCGT11T304-AK	11.6	9.525	3.97	4.4	0.4	●

35° V□□□with hole



Insert Shape	Designation	Specification (mm)						Grade
		L	IC	S	ød	Re	α	Without coating
	VCGT110302-AK	11.0	6.35	3.18	2.8	0.2	7	●
	VCGT110304-AK	11.0	6.35	3.18	2.8	0.4	7	●
	VCGT160402-AK	16.5	9.525	4.76	4.4	0.2	7	●
	VCGT160404-AK	16.5	9.525	4.76	4.4	0.4	7	●
	VCGT160408-AK	16.5	9.525	4.76	4.4	0.8	7	●
	VBGT160402-AK	16.5	9.525	4.76	4.4	0.2	5	●
	VBGT160404-AK	16.5	9.525	4.76	4.4	0.4	5	●
	VBGT160408-AK	16.5	9.525	4.76	4.4	0.8	5	●

Note : ○ Make to order ● Recommended grade △ Accept reservation