

hard material matters



**CB-CERATIZIT**



**Circular Disc**



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# About Us

CB CERATIZIT is the most competent and competitive supplier of carbide hard material in Asia. The company is headquartered from Taipei, Taiwan and operates from Xiamen, China. CB CERATIZIT has the ability to offer global production with localized service to our customers. We are the specialist for wear protection and cutting tools solutions: covering electronics, mould and die making, automotive, mining and construction industries.

CB CERATIZIT is your partner to grow.  
The leading manufacturer of hard-metal products and solutions in Asia.

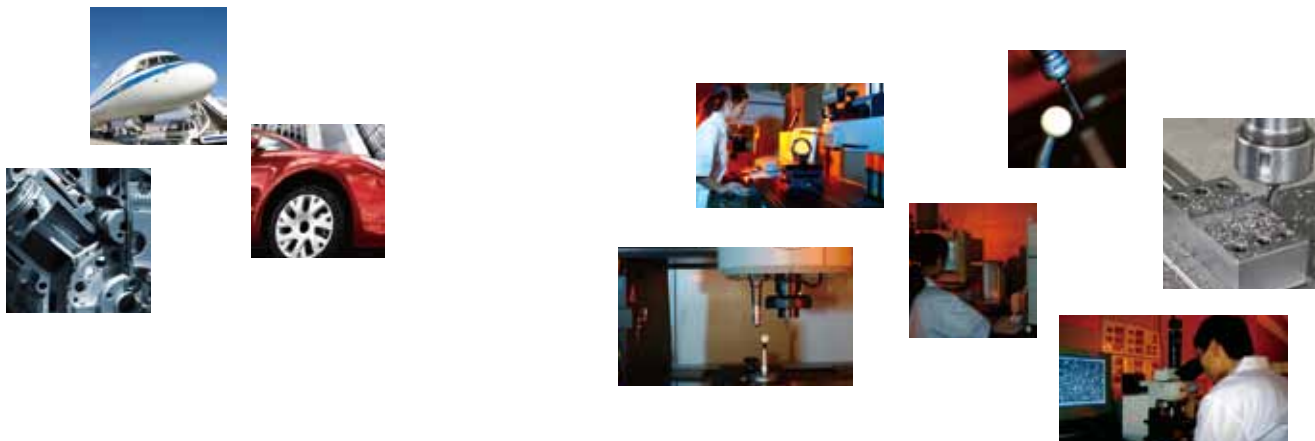


## CERATIZIT

CERATIZIT Group looks back on a history of almost 90 years. The Group came into existence in 2002 when the two carbide manufactures CERAMETAL and PLANSEETIZIT were merged. CERAMETAL was founded in 1931 in Luxemburg, PLANSEETIZIT was founded in 1921 in Austria. After the merger, CERATIZIT Group increased the international expansion with the opening of sales offices worldwide.

## CB CARBIDE

CB Carbide was founded in Taiwan by Mr.&Mrs. Liao in 1973 as a trading company. With the aspiration to provide faster delivery and value to its customers in 1978 the first carbide plant was established in Tamshui, Taiwan. To further achieve vertical integration of raw material supply the company ventured into China to establish its first China plant in 1999.





# Grades - Composition And Properties

Grade	ISO Code	WC + Other (±0.5%)	Co (±0.5%)	Grain Size	Density (g/cm <sup>3</sup> )±0.1	Hardness (HRA)±0.5	Hardness (HV30)	TRS (kgf/mm <sup>2</sup> )	Microstructure
					ISO 3369	ISO 3738	ISO 3738	ISO 3327	ISO 4499
WF05	K05   K10	92.8	7	Ultrafine	14.60	93.0	1800	360	
K100	K15	94	6	Fine	14.83	92.2	1650	360	
WF10	K20   K40	90	10	Submicron	14.35	92.5	1700	360	
WF15	K20   K40	90	10	Submicron	14.35	91.8	1580	380	
WF20	K40	88	12	Submicron	14.12	91.3	1510	370	
KR10	K10	94.2	5.8	Fine	14.80	92.2	1650	300	
KG4	K40	88	12	Medium	14.30	89.3	1280	360	

### Classification of tungsten carbide grain size

Tungsten carbide grain size (µm)	Classification
0.2-0.5	Ultrafine
0.5-0.8	Submicron
0.8-1.3	Fine
1.3-2.5	Medium
2.5-6.0	Coarse



# Grades - Description

## Submicron grades

**WF05**

For machining non ferrous metals, aluminium alloys, glass and carbon fibre reinforced plastics, artificial carbon, graphite, cast irons of low or medium hardness, chilled castings, hardened steels.

**K100**

For machining non ferrous metals, aluminium alloys, glass and carbon fibre reinforced plastics, artificial carbon, graphite, cast irons of low or medium hardness, chilled castings, hardened steels.

**WF15**

For machining corrosion, acid and heat resistant steels, chromium alloyed steels, nickel & cobalt alloyed steels, titanium alloys, non ferrous metals, plastics.

**WF10**

For machining corrosion, acid and heat resistant steels, chromium alloyed steels, nickel & cobalt alloyed steels, titanium alloys, non ferrous metals, plastics.

**WF20**

Submicron carbide grades with higher toughness for machining under unfavourable process conditions.

## Fine grain grades

**KR10**

For machining grey cast iron, tempered iron, non alloyed steels, super alloys, titanium and tantalum alloys, copper, graphite, aluminium, heat resistant steels, plastics.

**KG4**

For cutting paper, cardboard and plastic.



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We reserve the right to make technical changes for improvement of the product.

