

**Funik** super abrasive CBN/DIA

Improve the grinding effective to new level



**FUNIK ULTRAHARD MATERIAL CO.,LTD**

Address: No.16 Dongqing Street, High-New Technology Development Area, Zhengzhou, China.

Technical support phone : +86-15937121947

Complaint Hotline :

Fax : 86-371-67997700

P.c : 450001

E-mail : funikservice@funik.com

Http : www.funik.com

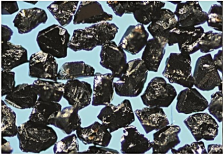
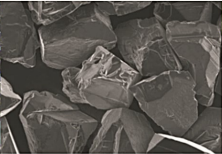
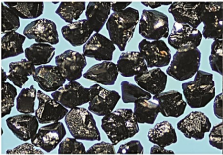
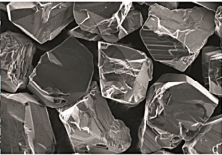
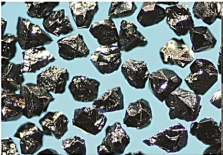
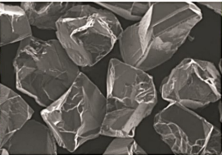
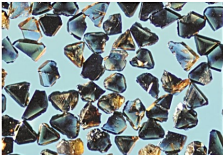
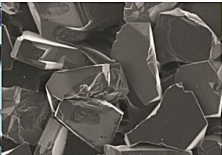
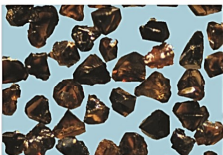
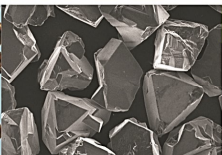
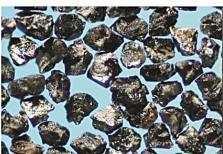
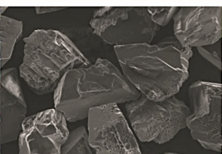
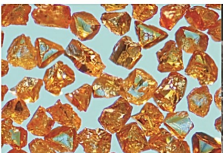
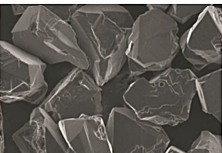
Customer service hotline : **400-878-5556**

Subverting the tradition Enlightening the future

ISO9001/ISO14001/BS-OHSAS18001 Certified

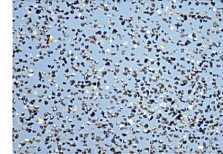
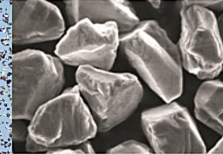
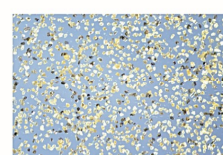
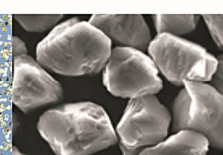
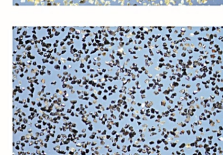
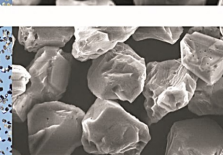
## CBN series

### CBN mono-crystal

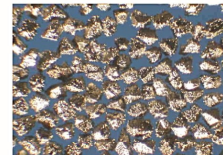
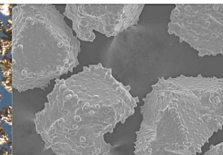
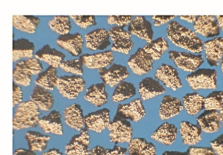
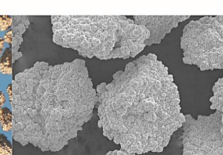
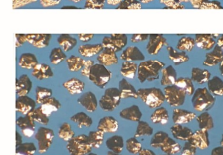
		<b>CBN-810</b> <span style="float: right;">R V</span>
Black, irregular shape, moderate strength, highlighted closed angle. Relatively good grinding efficiency, used in resin binder and ceramic binder system.		
		<b>CBN-850</b> <span style="float: right;">V</span>
Black, medium block shape, moderate strength, high thermal stability. Balanced crushing strength and crushing characteristics, give consideration to the grinding effective and the life of the grinding wheel, used in the ceramic binder system.		
		<b>CBN-880</b> <span style="float: right;">R V</span>
More economical black CBN, medium block shape, moderate strength, high thermal stability. Balanced crushing strength and crushing characteristics, give consideration to the grinding effective and the life of the grinding wheel, used in the resin binder and ceramic binder system.		
		<b>CBN-980</b> <span style="float: right;">R M V</span>
Brownish black, monocrystal, irregular shape, highlighted closed angle, high strength, high thermal stability. Used in ceramic binder, metal binder and the resin binder system with relatively high requirements.		
		<b>CBN-986</b> <span style="float: right;">V SL M</span>
Brownish black, monocrystal, massive crystalline form, high strength, high thermal stability. Used in ceramic binder, electroplating tool and metal binder system.		
		<b>CBN-800</b> <span style="float: right;">R</span>
Black, monocrystal, low strength, fragile. Used in resin binder and low temperature grinding.		
		<b>CBN-901</b> <span style="float: right;">R</span>
Amber, medium strength, irregular strength, good self-sharpening. Used in resin binder system.		

R Resin binder / V Ceramic binder / M Metal binder / SL Electroplating tools

### CBN micron powder

		<b>CBN-M850</b>
Black power product, used in the polishing and grinding of the black metal and the production of honing stick, and used in the production of glomero-cryst clad sheet sintering body.		
		<b>CBN-M990</b>
Amber powder product, used in grinding and superfinishing, and used in the production of honing stick and glomero-cryst clad sheet sintering body.		
		<b>CBN-M800</b> <span style="float: right;">R</span>
Black powder product, used in polishing and grinding, and used in resin binder system.		

### CBN plating product

		<b>Electroplating product</b>
The electroplating product uses the electroplating process with measured technology. In accordance with the requirements of the client, to conduct different weight increment nickel plating process to the abrasive to effectively improve the life of the grinding wheel.		
		<b>Chemical plating product</b>
Use the chemical plating process which is with mature chemical-treatment process to conduct weight increment nickel plating process to the abrasive, which greatly increased the holding force and heat-sinking capability of among the particles and improve the surface smoothness of the manufacturing workpieces.		
		<b>Titanizing product</b>
"Ti" 为表面镀钛产品，主要应用于金属和陶瓷结合剂系统，镀钛后可保护磨料性能，更耐高温，有效提高砂轮寿命。		

R Resin binder / V Ceramic binder / M Metal binder / SL Electroplating tools

## Resin diamond series

### Resin diamond monocrystal product



**FVG-200**

Light green, multocrystal, rough surface, irregular shape, fragile Give consideration to the grinding effective and the life, used in the long life and highly effective grinding of jewel, ceramic, glass, tungsten carbide tool.

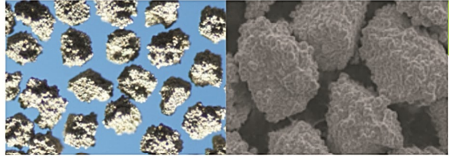
### Resin diamond micro powder product



**FVG-M200**

Light green, micro powder product, with good self-sharpening, used in the high precision and high effective grinding of ceramic and glass.

### Resin diamond plating product



**FVG-200CN**

Use the chemical-treatment process to conduct nickel plating process to the abrasive, which greatly improves the holding force and heat-sinking capability of among the particles and effectively improves the service life of the grinding wheel.

**R** Resin binder / **V** Ceramic binder / **M** Metal binder / **SL** Electroplating tools

### CBN mono-crystal and resin bond diamond available size

Grade Grain size	CBN-810	CBN-850	CBN-880	CBN-980	CBN-986	CBN-800	CBN-901	FVG-200
40/50		✓						
50/60		✓						
60/80	✓	✓	✓	✓	✓	✓	✓	✓
80/100	✓	✓	✓	✓	✓	✓	✓	✓
100/120	✓	✓	✓	✓	✓	✓	✓	✓
120/140	✓	✓	✓	✓	✓	✓	✓	✓
140/170	✓	✓	✓	✓	✓	✓	✓	✓
170/200	✓	✓	✓	✓	✓	✓	✓	✓
200/230	✓	✓	✓	✓	✓	✓	✓	✓
230/270	✓	✓	✓	✓	✓	✓	✓	✓
270/325	✓	✓	✓	✓	✓	✓	✓	✓
325/400	✓	✓	✓	✓	✓	✓	✓	✓

✓ = Available

### CBN micron powder and resin bond diamond powder available size

Grade Grain size	CBN-M850	CBN-M990	CBN-M800	FVG-M200
0-0.5	✓	✓	✓	✓
0-1	✓	✓	✓	✓
0-2	✓	✓	✓	✓
1-1.5	✓	✓	✓	✓
1-3	✓	✓	✓	✓
2-4	✓	✓	✓	✓
3-6	✓	✓	✓	✓
4-8	✓	✓	✓	✓
5-10	✓	✓	✓	✓
6-12	✓	✓	✓	✓
8-16	✓	✓	✓	✓
10-20	✓	✓	✓	✓
12-22	✓	✓	✓	✓
15-25	✓	✓	✓	✓
20-30	✓	✓	✓	✓
22-36	✓	✓	✓	✓
30-40	✓	✓	✓	✓
36-54	✓	✓	✓	✓

✓ = Available

Comparison Table of International Grain Size Standard													
FUNIK GB/T6406-2016	Grain size	40/50	50/60	60/80	80/100	100/120	120/140	140/170	170/200	200/230	230/270	270/325	325/400
	Dimension	425/300	300/250	250/180	180/150	150/125	125/106	106/90	90/75	75/63	63/53	53/45	45/38
International standards	Grain size	427	301	252	181	151	126	107	91	76	64	54	46
	Dimension	425/300	300/250	250/180	180/150	150/125	125/106	106/90	90/75	75/63	63/53	53/45	45/38
European Community	Grain size	B/427	B/301	B/252	B/181	B/151	B/126	B/107	B/91	B/76	B/64	B/54	B/46
	Dimension	425/300	300/250	250/180	180/150	150/125	125/106	106/90	90/75	75/63	63/53	53/45	45/38
USA ANSI B74.16-2002	Grain size	40/50	50/60	60/80	80/100	100/120	120/140	140/170	170/200	200/230	230/270	270/325	325/400
	Dimension	425/300	300/250	250/180	180/150	150/125	125/106	106/90	90/75	75/63	63/53	53/45	45/38
JAPAN JIS4130-1998	Grain size	40/50	50/60	60/80	80/100	100/120	120/140	140/170	170/200	200/230	230/270	270/325	325/400
	Dimension	425/300	300/250	250/180	180/150	150/125	125/106	106/90	90/75	75/63	63/53	53/45	45/38
RUSSIA 9206-80	Grain size	500/400	400/315	250/200	200/160	160/125	125/100	100/80	80/63	63/50	50/40		
	Dimension	500/400	400/315	250/200	200/160	160/125	125/100	100/80	80/63	63/50	50/40		
Theoretical basic size	Inch	0.015	0.011	0.009	0.0069	0.0058	0.0048	0.0041	0.0034	0.0030	0.0026	0.0022	0.0019
	MM	0.378	0.288	0.226	0.174	0.148	0.123	0.103	0.086	0.075	0.066	0.057	0.048

## Company honors

- 1988 Funik Synthesized the first particle of high-grade CBN abrasive.
- 1991 Amber CBN was successfully developed.
- 1997 High-strength black CBN was successfully developed.
- 1998 Won the title of "High-tech Enterprise" by Henan Association for Science and Technology .(19-08134)
- 2002 Funik drafted out the national standard Super Abrasive - Cubic Boron Nitride.
- 2003 PCBN inserts were launched.
- 2003 Undertook "National Torch Plan" project of the National Science &Technology ministry's torch high-tech industrial development center. (2006GH031191)
- 2005 Funik CBN products won the title of "Henan Famous-brand Product" by Henan Famous Brand Strategy Committee.(41-2005-056)
- 2006 FUNIK was listed in "50-HI-tech High-growth Enterprises" by the People's Government of Henan Province.
- 2006 CBN superhard abrasives with high strength,high tenacity and coarse grit size gained the certificate of "National Key New Product" of Ministry of Science & Technology, Ministry of Commerce, General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China and Ministry of Ecology and Environment of the People's Republic of China. (2006GRD00001)
- 2007 High wear and impact resistance PCBN inserts was launched into market.
- 2008 Super wear-resistant high speed finishing machining PCBN was launched into market.
- 2009 Undertook and implemented the high-tech industrialization project of high grade CBN and high-speed superhard cutting tools of the National Development and Reform Commission.
- 2009 Won the title of "Henan Innovative Enterprise" by Department of Science and Technology of Henan Province, State-owned Assets Supervision and Administration Commission of Henan Provincial People's Government, Finance Department of Henan Province, Henan Local Taxation Bureau and Intellectual Property Office of Henan Province.
- 2010 Super strength brazed PCBN cutting tools came into the market successfully.
- 2011 Approved as academician workstation of CBN and relative products by Henan Provincial Department of Science and Technology
- 2012 Super finishing PCBN cutting inserts successfully came into market.
- 2013 Indexable PCBN milling cutter successfully launched into market.
- 2013 Undertook the industry revitalization and technical transformation project of National Development and Reform Commission and Ministry of Industry and Information Technology.
- 2014 Won the title of "Innovative Enterprise" by China Materials Research Society.
- 2014 PCD high-end precision machining tool for industries such as automobile and electronic successfully launched into the market.
- 2014 Stock was listed on the New OTC, the security was referred as "Funik", security code: 831378
- 2015 Became the drifting unit of the national standard Polycrystalline Cubic Boron Nitride for Metal Processing.
- 2015 Funik stock was rated as the sample stock of "NEEQ Component Index" and "NEEQ Market Making Component Index".
- 2015 Won the tile of "2015 Henan Technology Innovation Demonstration Enterprise" by the Commission of Industry and Information Technology of Henan Province and Finance Department of Henan Province.
- 2016 Passed the Enterprise Intellectual Property Management certification and Henan Intellectual Property Strong Enterprise Contingency Plan and gained the title of "Henan Province Intellectual Property Strong Enterprise"
- 2016 PCBN cutting tools was awarded with the title of "Top 10 Quality of Product" by the China Machine Tool & Tool Builders' Association
- 2016 Gained the tile of "Best Service Brand" in the 3rd China Metal Cutting tools.
- 2017 Awarded with the "19th Chinese Patent Award • Excellence Award" by the State Intellectual Property Office.
- 2017 Won the "2017 First Prize of Henan Scientific and Technological Progress" by The People's Government of Henan Province.
- 2017 Gained the "2017 Top Ten Brand of Made in Henan".
- 2018 Gained the 2018 first batch robot "ten, hundred and thousand" pilot application multiplication engineering demonstration project in Henan Province.
- 2018 Awarded with the "2018 First Prize of Henan Scientific and Technological Progress" by The People's Government of Henan Province.
- 2018 200,000PCS of FUNIK PCD rod tools was sold in 3C industry.
- 2018 Funik holds about 300 national patents in total.