



Funik Ultrahard Material Co., Ltd.

ISO9001/ISO14001/ISO45001 certified

## FUNIK OVERVIEW

The Funik logo is displayed in a large, bold, black font. The letter 'i' is stylized with a green dot. The logo is positioned on the left side of the slide, partially overlapping an orange geometric shape and a white hexagonal shape.

# Funik

Founded in 1988, Funik Ultrahard Material Co., Ltd., is the world's leading manufacturer of CBN/Diamond abrasives, PCD/CBN composites and cutting tools, as well as a provider of grinding programs, cutting programs and technologies, and is committed to the formulation of industry standards. Through huge R & D investment and good customers interaction, it continues to bring forth new ideas in the industry and creates new peaks in grinding materials and metal cutting materials. Products are widely used in automobile, consumer electronics, aerospace, and other high-end machining fields, and its customers are all over the world. It is the designated partner of many of the world's top 500 enterprises.

A stylized, blue-tinted illustration of a city skyline with various skyscrapers of different heights and shapes, located in the bottom right corner of the slide.

*ISO9001/ISO14001/ISO45001 certified*

The logo for Funik, featuring the word "Funik" in a bold, black, sans-serif font. The letter "i" is stylized with a green dot. The logo is positioned on the left side of the slide, partially overlapping a large orange hexagonal shape and a stylized orange building graphic at the bottom left.

# Funik

Funik, with a registered capital of 129 million Yuan, was listed on the Beijing Stock Exchange in 2014. It is a national high-tech enterprise, the backbone enterprise of the national superhard material industry base, state-level technologically advanced 'little giant' enterprises, the executive director unit of China Superhard Material Association, the director unit of China Cutting Tool Association and the national standard setting unit of cubic boron nitride abrasives and cubic boron nitride polycrystalline cutting tools; It has set up the academician workstation of "cubic boron nitride and its products", the provincial technology center and the Henan cubic boron nitride micro-nano materials and applied engineering technology research center. It owns more than 370 patents, and has been certified by the ISO9001, ISO14001 and ISO45001 system. With 35 years of continuous technological innovation, improving management and business philosophy of keeping pace with the times, the company has become one of the most influential enterprises in the global superhard material industry.



## MISSION

Committed to developing the hardest materials and continuing to create greater value for customers!

## VISION

To be the most trusted superabrasives brand company

## VALUES

Customer success, honesty and law-abiding, hard work and diligence, innovation and refinement.

## CORPORATE CULTURE

Adhere to the company's values and let the cultural concept of respecting personality and managing human nature be rooted in the heart of every employee

Let employees create more value for the enterprise and society with self-respect, self-confidence, optimism, positive, responsible and enterprising mindset and behaviour

# FUNIK Products Development History

- 1988** • Synthesis of Funik's first high-grade cubic boron nitride abrasive
- 1991** • Amber cubic boron nitride has been successfully developed
- 1997** • High strength black cubic boron nitride has been successfully developed
- 1998** • Won the title of "High-tech Enterprise" of Henan Science and Technology Commission
- 2002** • National standard formulation unit of Super Abrasive, Cubic Boron Nitride
- 2003** • Introduced high wear-resistant and impact-resistant polycrystalline cubic boron nitride inserts  
Undertook the "National Torch Plan" project of the Ministry of Science and Technology of the People's Republic of China
- 2005** • Funik brand won the title of "Famous Brand Products of Henan Province"
- 2006** • Won the "50 High-Tech and High-growth Enterprises" named by Henan Provincial Government  
The first one in the industry was certified by the "three-standard" management system of ISO9001, ISO14001, QHSAS18001

# FUNIK Products Development History

- 2007** • Won the title of "Top Ten Enterprises with Comprehensive Economic Benefits in 2006" by China Machine Tool Industry Association
- 2008** • Super wear-resistant high-speed finishing polycrystalline cubic boron nitride inserts were successfully put on the market
- 2009** • Undertook and implemented the high-tech industrialization project of high-grade cubic boron nitride and high-speed cutting superhard cutting tools of the National Development and Reform Commission  
Won the title of "Henan Innovative Enterprise" in Henan Province
- 2010** • Super brazed cubic boron nitride cutting tools was successfully put on the market
- 2011** • Establishment of academican workstation of cubic boron nitride and its products
- 2012** • Ultra-precision cubic boron nitride polycrystalline cutting tools was successfully put on the market
- 2014** • Won the title of "Innovative Enterprise" of China Materials Research Society  
The company's shares are listed on the New Three Board, and the securities are referred to as "Funik", The stock code is 831378

# FUNIK Products Development History

- 2015** ● Won the national standard-setting unit of Polycrystalline Cubic Boron Nitride for Metal Processing  
Won the title of "Demonstration Enterprise of Technological Innovation in Henan Province in 2015"  
Won the title of "Top Ten Innovative Enterprises of Henan Economy (2015)"
- 2016** ● Won the title of "Intellectual Property Advantage Enterprise in Henan Province\*1  
Won the title of "Top Ten Product Quality" of cubic boron nitride awarded by China Machine Tool Industry Association  
Won the title of "Best Service Brand" of the third China Metal Cutting Tool
- 2017** ● Won the "Excellence Award of China Patent Award"  
Won the "First Prize for Scientific and Technological Progress in Henan Province"  
Won the "Top Ten Brands Made in Henan Province in 2017"
- 2018** ● Won the "First Prize for Scientific and Technological Progress in Henan Province"  
The  $\phi 63\text{mm}$  PCD blank was successfully put on the market  
Won the title of "Henan Intelligent Factory"

# FUNIK Products Development History

- 2019** • Won the title of the first batch of special new "Little Giant" enterprises of the Ministry of Industry and Information Technology of the People's Republic of China  
Won the "Henan Science and Technology Progress Award"  
Won the "National Intellectual Property Advantage Enterprise"
- 2020** • Passed the evaluation of the "Management System for Integration of Informatization and Industrialization"  
Won the recognition of Henan Research Center of Cubic Boron Nitride Micro-nano Materials and Applied Engineering Technology
- 2021** • Lab-grown diamond was successfully put on the market  
φ75mm PCD Blank was successfully put on the market
- 2022** • The Henan Provincial Intellectual Property Office identified the company's key research and development project as the 2022 Henan Provincial High-Value Patent Cultivation Project  
By the end of 2022, Funik has obtained 339 national patents

# Partner Universities

- **Chinese Academy of Sciences**
- **Nanjing University of Aeronautics and Astronautics**
- **Sichuan University**
- **Zhengzhou University**
- **Henan University of Technology**
- **Zhongyuan University of Technology**
- **Huanghe Jiaotong University**



# System Certification



ISO9001  
Quality Management



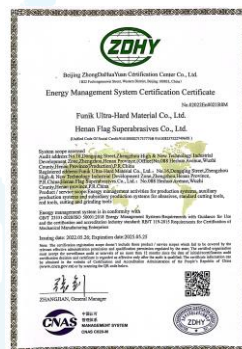
ISO14001  
Environmental Management



ISO45001  
Occupational Health and Safety Management



Intellectual Property  
Management System Certification



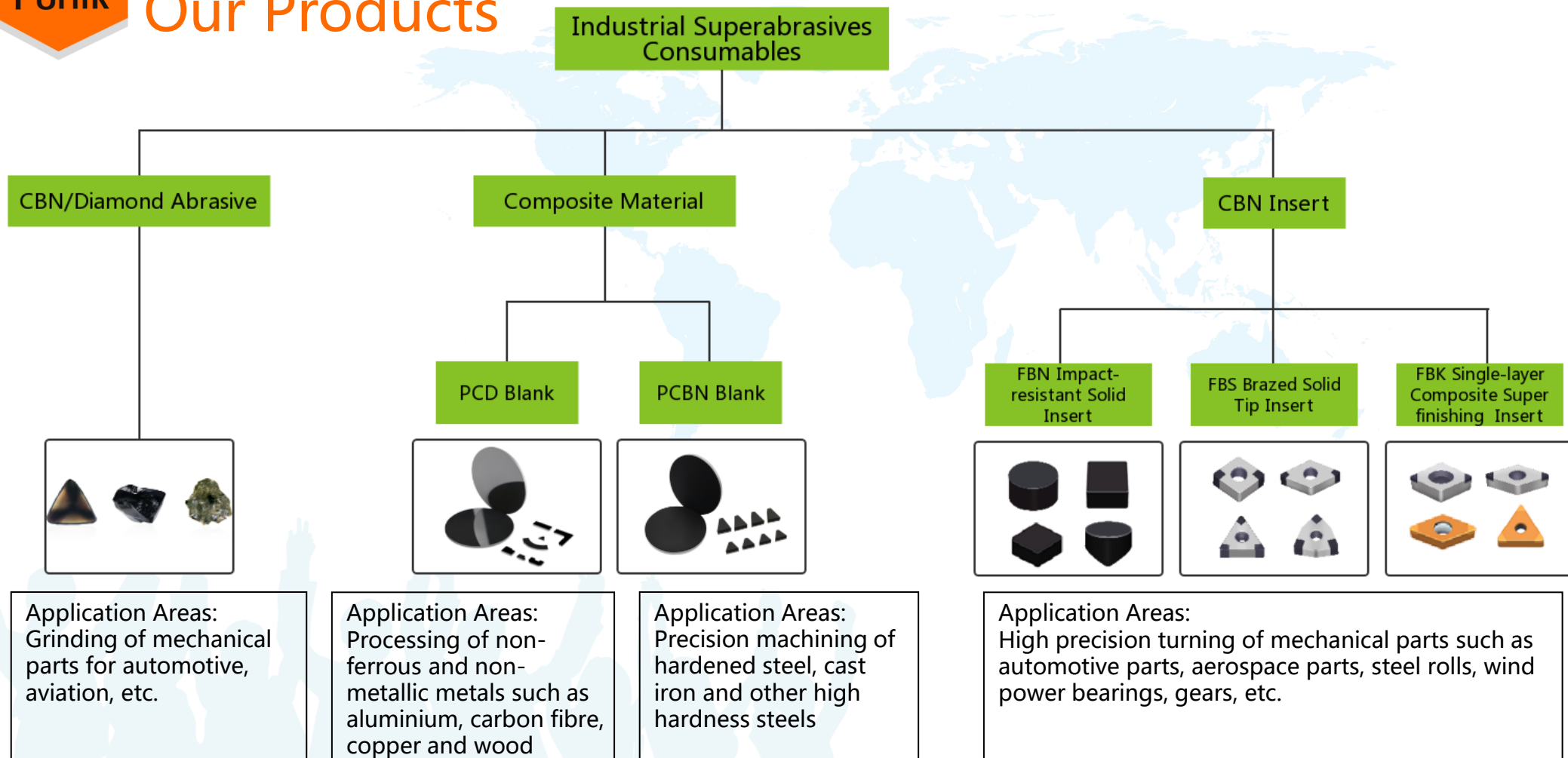
Energy Management System  
Certification



Integration of industrialization and industrialization  
Management System Certification  
*ISO9001/ISO14001/ISO45001 certified*

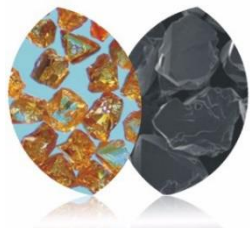


# Our Products

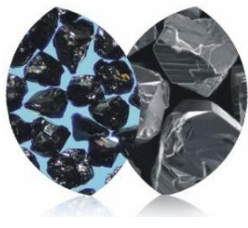


◆ **CBN Superabrasive Series**

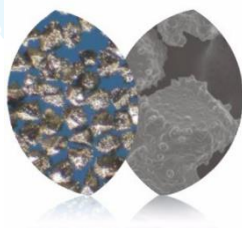
● **Superabrasive**



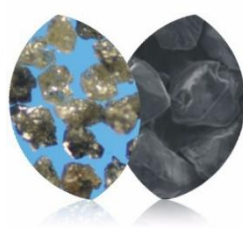
**Amber color  
CBN**



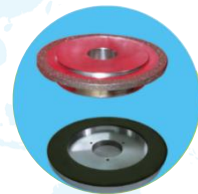
**Black color  
CBN**



**Coating CBN**

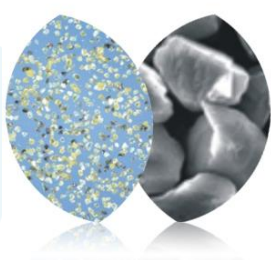


**FVG Grinding  
Diamond**

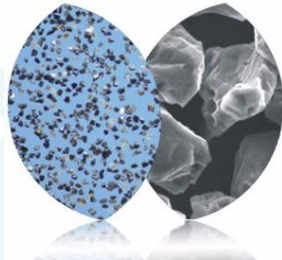


**Superhard Grinding Tool**

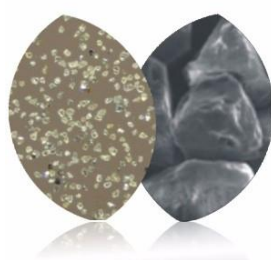
● **Superabrasive micron powder**



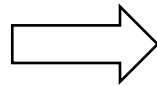
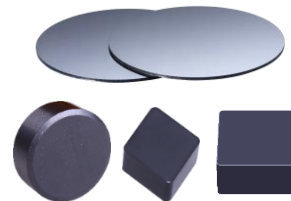
**Amber color CBN micron  
powder**



**Black color CBN micron  
powder**

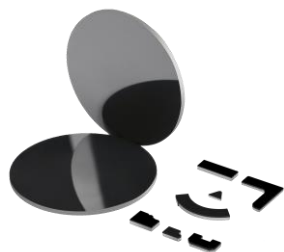


**Diamond micron  
powder**

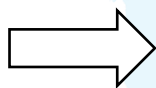


**Solid Product**

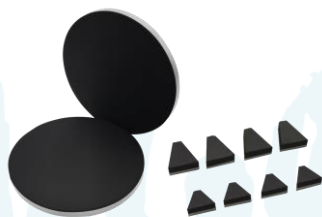
## ◆ PCD/PCBN Blank Series



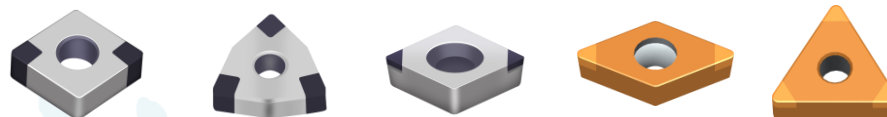
**PCD Blank**



**3C electronics, automotive, aerospace, graphite, woodworking, stone and other fields of superhard cutting tools**



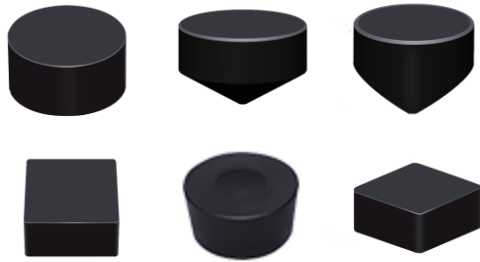
**PCBN Blank**



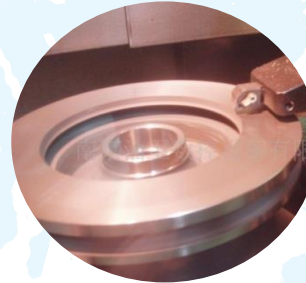
**PCBN Standard Inserts**

## ◆ PCD/PCBN Standard Insert Series

- High wear resistance and high impact resistance insert



High hardness cast iron

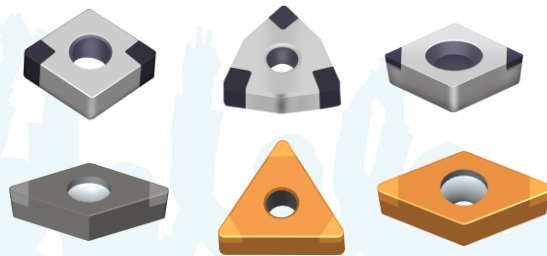


Gray cast iron



Hardened steel

- Super finishing, Long working life Insert



Crankshaft



Engine



Gear

A light blue world map is centered in the background of the slide, showing the continents of North America, South America, Europe, Africa, Asia, and Australia.

# Manufacturing Equipments

FUNIK owns international leading full-automatic numerically grinding machining center, 3D laser machining center, ultrasonic machining center and other advanced precision manufacturing equipments.



## High Temperature and High Pressure Synthesis





## Micron Powder Production





# Automatic CNC Grinding



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## Inspection Center

FUNIK has set up a inspection and analysis center for materials and cutting tools, and has established a strict testing procedures and quality control management system. We own precision testing instrument from Germany, USA, Italy, Japanese, ect., and this ensures each product with excellent performance and quality.

- **Equipment for Raw Material Inspection and Analysis**



Composition/Purity degree inspection



Crystal type/color inspection



Size inspection



Bulk density inspection



Surface structure inspection



Ti/TTi inspection

## ● Equipment for Cutting Tools Inspection and Analysis



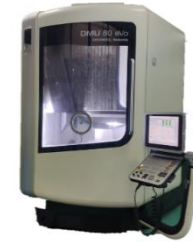
Standard cutting tools  
dimension and cutting edge  
inspection



Non-standard cutting tools  
dimension and cutting edge  
inspection



Internal structure  
inspection



Cutting tools testing



Hardness inspection



Coating thickness  
inspection



Coating strength  
inspection



Composite materials  
toughness inspection



FUNIK continues to focus on superhard materials and products, forming the advantage of large-scale production in the whole industrial chain. With its unique formula and technology, strict manufacturing concept, excellent technological process and world-class equipments, each product has unparalleled performance.

FUNIK has established long-term and stable cooperation with many Fortune 500 companies in the field of super-hard materials and products, with customers in China, USA, Europe, Korea, Japan and other countries.

Designated supplier of the world's top 500 companies





Thank you!

[www.funik.com](http://www.funik.com)

