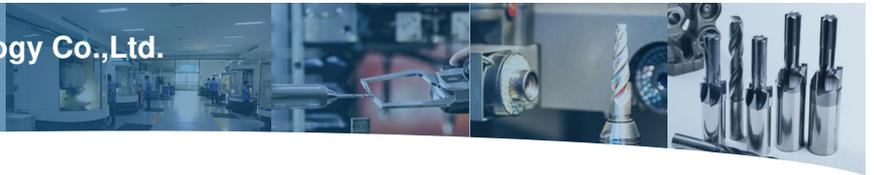




China Factory

Wuxi Soon Technology Co.,Ltd.

soonru.com



## High Impact PCD Tools MGMN400 with Medium Grain Size for CNC and Lathe Machine Precision Metalworking

Our Product Introduction

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### Basic Information



### Product Specification

- Advantage: Process Of Hard --to--cut Marte
- Machine: CNC, Lathe Machine
- Size: 200\*1.0\*50,customized
- Shape: Regular Crystal Shape
- Wearresistance: Excellent
- Feature: High Wear Resistance,High Impact
- Grain Size: Medium Grain Size
- Productname: PCD Tools
- Выделить: **PCD tools for metalworking, MGMN400 PCD tool, precision PCD tools with warranty**

### Product Description:

The PCD Tools product, model number MGMN400, is a highly specialized cutting tool designed for precision machining applications involving non-ferrous metals, composites, and abrasive materials. This product is engineered to meet the demanding requirements of industries that require exceptional accuracy and durability in their machining processes. Utilizing the advanced PCBN-23 model with a medium grain size, the MGMN400 ensures optimal performance by providing a perfect balance between toughness and sharpness, making it ideal for intricate and high-quality machining tasks.

One of the standout features of the MGMN400 is its compatibility with modern CNC and lathe machines, allowing operators to leverage the full potential of automated and semi-automated manufacturing environments. The tool's design enables smooth and efficient cutting, reducing wear and tear while maintaining consistent quality throughout the machining process. This capability is especially valuable when working with challenging materials such as composites and abrasive substances, which can quickly degrade lesser tools.

In addition to its robust physical attributes, the PCD Tools product integrates seamlessly with advanced Point Cloud Management System technologies. This integration allows for enhanced precision through the utilization of dense 3D point cloud data, which can be processed and analyzed to improve machining strategies. By incorporating the Point Cloud Management System, users can achieve higher accuracy in tool path generation and optimize cutting parameters based on detailed spatial data, ultimately improving the overall efficiency and quality of the machining process.

Moreover, the MGMN400 benefits from cutting-edge PCD Processing Software that simplifies and enhances the tool's operational workflow. This software is designed to work hand-in-hand with the physical tool, providing operators with intuitive control over machining parameters and enabling real-time adjustments based on performance feedback. The PCD Processing Software supports seamless integration with CNC and lathe machines, ensuring that the MGMN400 operates at peak efficiency. Through this software, users can also simulate machining operations, reducing the risk of errors and minimizing material waste.

The product also leverages sophisticated 3D Data Manipulation Tools, which play a crucial role in optimizing the machining process. These tools allow for the precise modification and analysis of 3D models, facilitating the creation of highly detailed and accurate tool paths. By using these data manipulation capabilities, manufacturers can tailor their machining operations to the unique characteristics of the materials being processed, such as non-ferrous metals and composites, which often require specialized handling due to their distinct physical properties.

With its medium grain size, the MGMN400 strikes an excellent balance between durability and cutting precision. The medium grain size ensures that the tool maintains sharp edges for longer periods while providing sufficient toughness to withstand the rigors of machining abrasive materials. This attribute is particularly important when working with composites and non-ferrous metals, where tool longevity and consistent performance directly impact production costs and product quality.

In summary, the PCD Tools product MGMN400 with PCBN-23 medium grain size is a comprehensive solution designed for advanced machining applications. Its compatibility with CNC and lathe machines, combined with integration into Point Cloud Management System technology, PCD Processing Software, and 3D Data Manipulation Tools, makes it an indispensable asset for manufacturers aiming to achieve high precision, efficiency, and reliability. Whether machining non-ferrous metals, composites, or abrasive materials, the MGMN400 delivers superior performance, extending tool life and enhancing overall manufacturing outcomes.

### Features:

Product Name: PCD Tools

Advantage: Process of hard-to-cut Marte materials efficiently

Shape: Regular Crystal Shape for consistent performance

Wear Resistance: Excellent durability for long-lasting use

Model: PCBN-23

Precision: High Dimensional Accuracy ensuring precise results

Includes Point Cloud Analysis Suite for advanced data interpretation

Offers 3D Point Cloud Utilities to enhance modeling and analysis

Comes with PCD Processing Software for streamlined workflow management

### Technical Parameters:

Product Name	PCD Tools
Model	PCBN-23
Precision	High Dimensional Accuracy
Size	200*1.0*50, customized
Feature	High Wear Resistance, High Impact
Lead Time	7~15 Work Days
Grain Size	Medium Grain Size
Shape	Regular Crystal Shape
Delivery Way	By DHL/TNT
Advantage	Process Of Hard --to--cut Marte

## Applications:

PCD Tools, featuring the model number MGMN400 and a regular crystal shape, are engineered to deliver exceptional performance in various industrial applications. With a lead time of just 7 to 15 work days, these tools are designed to meet the demands of high-precision machining environments where efficiency and reliability are paramount. The high wear resistance and high impact features of PCD Tools make them ideal for processing hard materials and extending tool life, ensuring consistent results across multiple production cycles.

The versatility of PCD Tools makes them suitable for a wide range of application occasions and scenarios. They are extensively used in industries that require superior material removal rates and precision, such as aerospace, automotive, electronics, and mold manufacturing. In scenarios where machining hard materials like composites, non-ferrous metals, and abrasive materials is necessary, PCD Tools provide unmatched durability and cutting performance, reducing downtime and maintenance costs.

Moreover, PCD Tools integrate seamlessly with modern manufacturing technologies, including PCD Processing Software, Point Cloud Management Systems, and 3D Point Cloud Utilities. These advanced software solutions enable precise tool path planning and optimization, facilitating enhanced productivity and accuracy in CNC machining processes. The combination of PCD Tools with 3D Point Cloud Utilities allows for detailed surface analysis and adaptive machining strategies, particularly beneficial in complex geometries and intricate part designs.

In Point Cloud Management System environments, PCD Tools contribute to efficient data handling and real-time tool adjustments, ensuring that machining operations remain within tight tolerances. The high impact resistance characteristic of these tools also supports their use in high-speed machining and heavy-duty cutting operations, where sudden forces and vibrations are common. This robustness guarantees consistent tool performance even under demanding conditions.

Overall, PCD Tools with model MGMN400 offer a reliable solution for industries focused on precision machining and rapid production turnaround. Their compatibility with PCD Processing Software and related 3D Point Cloud utilities enhances their utility in modern manufacturing workflows, making them indispensable for professionals seeking to optimize tool life, accuracy, and operational efficiency.

## Customization:

Our PCD Tools product offers exceptional customization services tailored to meet your specific machining needs. Delivered efficiently by DHL or TNT, each package has a gross weight of 0.250kg, ensuring prompt and secure shipping. Designed for machining non-ferrous metals, composites, and abrasive materials, our PCD tools provide excellent wear resistance, enhancing durability and performance. Featuring a medium grain size, these tools achieve optimal precision and finish in your applications. Additionally, our customization services integrate advanced PCD Processing Software and a comprehensive Point Cloud Analysis Suite, supported by robust Point Cloud Data Tools, to ensure precise design and manufacturing tailored to your unique requirements.

## Support and Services:

Our Product Technical Support and Services for PCD Tools are designed to ensure optimal performance and customer satisfaction. We offer comprehensive assistance including installation guidance, troubleshooting, maintenance tips, and software updates. Our expert support team is available to help resolve any technical issues promptly, providing detailed documentation and personalized solutions tailored to your specific needs. Additionally, we provide regular training sessions and webinars to keep you informed about the latest features and best practices. With our commitment to quality service, you can rely on us for ongoing support throughout the lifecycle of your PCD Tools product.



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**Wuxi Soon Technology Co.,Ltd.**



+86 18094292778



wxsoon@163.com



soonru.com

№ 876, корпус В, 168 Qiangaо Road, Уси, Цзянсу, Китай