CBN Composite Insert for Gear Machining

This CBN composite insert is designed for gear machining applications, specifically for endface and inner bore processing. It is suitable for use on 20CrMnTi workpiece material with a hardness of HRC58-62.

Product Overview

High-Performance CBN Composite Inserts

These CBN composite inserts are engineered specifically for high-speed and high-precision gear machining applications. Crafted from cubic boron nitride (CBN), they offer exceptional hardness, wear resistance, and thermal stability to ensure consistent performance and extended tool life. The optimized geometry facilitates efficient chip removal and reduced cutting forces, resulting in superior surface finishes and dimensional accuracy for hardened steels and cast irons.

Technical Specifications

Key Performance Benefits

- High thermal stability
- Excellent wear resistance
- Optimized chip removal geometry
- Reduced cutting forces

Material Composition	Cubic Boron Nitride (CBN)

Applications

Primary Machining Applications

Gear Machining • Slurry Pump Components • Roller Machining • Brake Drum Turning

Compatible Materials

- Hardened Steels
- Cast Irons

Industries Served	Automotive, Aerospace, Wind Energy, Heavy Machinery, Oil & Gas