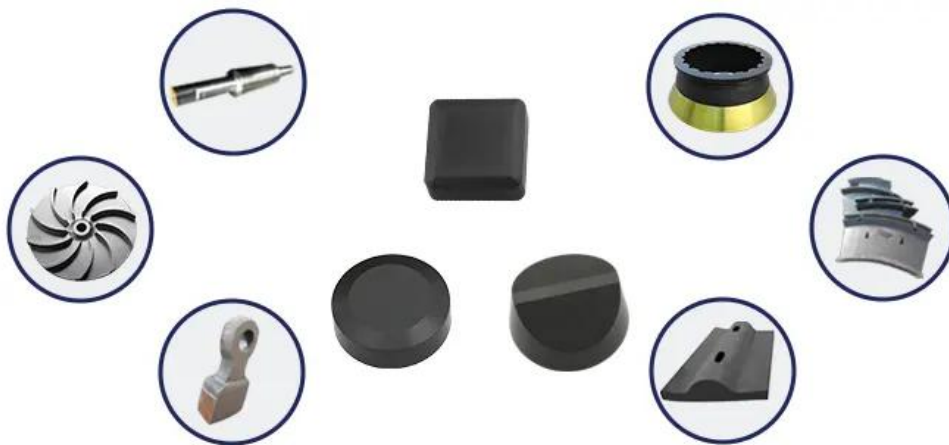


## Large-size Solid CBN Inserts & RCGX Series for Mining Machinery

The key components of mining machinery often utilize difficult-to-machine materials such as high-hardness wear-resistant cast iron, hardened steel, and high-manganese steel, placing extreme demands on the hardness, wear resistance, and impact resistance of cutting tools.

Large-size solid CBN inserts and RCGX series inserts of **SCBN TOOLS**, with their ultra-hard material properties and precise structural design, have become core tools in the mining machinery processing field, effectively addressing the industry pain points of short tool life, low efficiency, and insufficient precision of traditional inserts.

Large-size solid CBN Inserts structure eliminates the hidden dangers of welding stress, significantly improving overall toughness and impact resistance, and can adapt to the **rough and fine machining** needs of mining machinery components.



The RCGX series inserts, as specially developed grooved polycrystalline CBN inserts. Their core advantage lies in further improving cutting efficiency and processing stability through a unique groove design and precise positioning structure.

In mining machinery processing scenarios, the advantages of large-size solid CBN inserts are concentrated in the processing of high-hardness materials and high-efficiency cutting. Core components of mining machinery, such as rolls, pump casings, and impellers, often use materials such as chilled cast iron, high-chromium cast iron, and hardened steel (HRC45 and above), which have high hardness and strong wear resistance. Traditional inserts require frequent tool changes during processing, resulting in low processing efficiency. However, using appropriately graded solid large-size CBN inserts, such as **SCBN's SBN950**, can achieve high-speed cutting and stable processing, enabling **“turning instead of grinding,”** and reducing overall processing costs.

**Currently, SCBN's large-size solid CBN inserts and RCGX series inserts have accumulated numerous successful application cases in the mining machinery processing field, providing reliable tool solutions for improving processing efficiency and quality in the industry.**

**We can also provide customized services, in addition, standard inserts including dimple inserts, brazed CBN inserts, tipped CBN inserts, coating CBN inserts can be offered.**



### **Brake Disc Cutting Tools Solutions**

If you are a brake disc customer, please click the link above for more information. Compared with ceramic inserts, CBN inserts (SBN850) have more advantages in brake disc processing in terms of service life and wear resistance. The following inserts reflect our successful experience in brake disc processing.