

Ceramic insert tool



Overview

Indexable Ceramic Mills If your operation requires high feed rates or fast machining, ceramic inserts, end mills or shell mills may be the way to go. Choos.

Key Takeaways

Ceramic insert tools are cutting inserts made from advanced ceramics—commonly used for high-speed turning of hard materials—and are available from suppliers such as SSANGYONG (via Milhart Tools) and manufacturers offering ceramic turning inserts priced around ₹180 per piece in India. What Ceramic Insert Tools Are

Ceramic inserts are cutting tools made from materials like alumina or silicon nitride. They are used in:

- Hard turning
- High-speed machining
- Heat-resistant alloy cutting
- Cast iron finishing

They offer:

- High wear resistance
- Ability to withstand high temperatures

- Longer tool life in specific applications

Examples & Pricing (India) Ceramic Turning Insert

- Price: ~₹180 per piece (minimum order 10 pieces)
 - Features: Rugged design, optimal durability, excellent finish
- SSANGYONG Ceramic Inserts
- Distributed by Milhart Tools & Hardware, New Delhi
 - Product range includes:
 - Ceramic Inserts
 - Cermet Inserts
 - PCBN & PCD Inserts
 - Milling cutters
 - U-Drill tooling

Where to Buy

- Milhart Tools & Hardware (India) – Authorized distributor for SSANGYONG ceramic inserts
 - IndiaMART listings – Multiple suppliers offering ceramic turning inserts
 - Industrial tooling distributors – Often stock ceramic, carbide, CBN, and PCD inserts
- Typical Applications
- | Material | Suitability | Notes |
|-----------------|-------------|---|
| Hardened steel | Excellent | High-speed finishing |
| Cast iron | Excellent | Long tool life |
| Nickel alloys | Good | Use Si ₃ N ₄ ceramics |
| Stainless steel | Limited | Not ideal for interrupted cuts |

Ceramic inserts remain a preferred choice for high-speed finishing of hard materials due to their heat resistance and durability.

Article Content

Indexable Ceramic Mills

If your operation requires high feed rates or fast machining, ceramic inserts, end mills or shell mills may be the way to go. Choose

Ceramic Cutting Materials for Machining

Under the SPK® brand CeramTec offers a unique program in terms of scope, diversity and performance of

ceramic inserts

GWS Tool Group, a leader in the development of pressed-to-size ceramic inserts is now offering this unique tooling in grades MW30,

Ceramic Insert Lathe Tools | McMaster-Carr

Choose from our selection of ceramic insert lathe tools in a wide range of styles and sizes. Same and Next Day Delivery.

Ceramic General Turning

Our Secomax™ ceramic insert grades provide optimized wear resistance and toughness when cutting parts from heat-resistant

Tungsten Carbide Cermet Insert, Ceramic Cutting Insert Tool

CYCT's cermet inserts combine the hardness of ceramics with the toughness of metals, offering excellent wear resistance and

Greenleaf Corporation Metalcutting Inserts and Tools Manufacturer

Greenleaf Corporation is a leading supplier of industrial cutting tools, specializing in the manufacturing of high-performance tungsten

High-Precision Ceramic Inserts for CNC Machining

Enhance your machining accuracy and efficiency with high-performance Ceramic Inserts engineered by

Ceramic and CBN Inserts for Steel Mill Applications

Ceramic and CBN tools can outperform conventional carbide tools in speed and tool life. The best

Cutting benefits of ceramic and cermet tools

Technical Developments Although cermet and ceramic cutting tools have a long history, toolmakers continue to make

Ceramic General Turning

Ceramic General Turning - ISO Inserts Our Secomax™ ceramic insert grades provide optimized wear resistance and toughness

Ceramic General Turning

Our Secomax™ ceramic insert grades provide optimized wear resistance and toughness when cutting parts from heat-resistant

Ceramic and CBN Inserts for Steel Mill Applications

Advantages of Ceramic Inserts Higher hardness than carbide supports high-speed cutting. Low thermal conductivity reduces

Ceramic Inserts

The GWS Advantage in Ceramic Technology With a legacy spanning over 50 years, GWS Tool Group is a pioneer and leader in

Machining performance of ceramic tool inserts during dry ...

Hence in the present investigation, microwave sintered alumina ceramic (with a purity of 99.95%) tool inserts are used for dry

Ceramic Insert Tool Holder

Ceramic Insert Tool Holder Designed for cutting hard materials like tool steel, this ceramic insert tool holder

Greenleaf Ceramics

Discover Greenleaf's advanced ceramic tooling solutions at Factory Tooling Solutions. Featuring WG-700 ceramic inserts, ceramic

NTK Cutting Tools

Ceramic inserts deliver measurable gains in cast iron machining by operating at cutting speeds beyond conventional

Lathe Ceramic Inserts | McMaster-Carr

Ceramic Alumina Lathe Tool Inserts for Hardened Steel and Cast Iron These inserts are made with a black ceramic alumina on the

Turning Inserts | Cutting Tools | KYOCERA Asia Pacific

New Products Digest 2023 “New Products Digest Catalog 2023-2024” has been released, listing many latest cutting tools products

Turning Tools and High-Performance Inserts

Our turning inserts and other turning tools improve output, enhance component quality, and reduce errors, while our expertise helps

Cermet Tooling Explained

Cermet tooling, as the name implies, is a cross between ceramic and metal tools. Made of ceramic particles bonded

What are the Benefits of Machining with Ceramic Turning or Milling Inserts?

Modern machine tools have no issues with ceramic inserts when turning, grooving or profiling but when milling, the

Ceramics Get Tough: Turning Performance

Advanced compositions and cutter designs have made ceramic inserts tough to beat for high-speed milling. For a long time, many

Lathe Tool Inserts | McMaster-Carr

Choose from our selection of lathe tool inserts, including economy carbide inserts, carbide inserts for multiple materials, and more.

Turning inserts and grades

Choosing the right turning insert grades determines cutting tool performance and is essential for achieving secure, efficient, and cost

Industrial Cutting Tools | Clarklake, MI | Romay Corporation

Romay Corporation offers high-quality industrial cutting tools, including ceramic inserts, cermet inserts, and more.

What is the difference between carbide and ceramic inserts?

Ceramic inserts are significantly harder than carbide inserts, which allows them to withstand higher cutting speeds

Ceramic inserts | Kyocera Unimerco

Ceramic inserts Achieve superior tool life for hardened material and cast iron machining due to the original PVD coating technology

Cutting benefits of ceramic and cermet tools

Technical Developments Although cermet and ceramic cutting tools have a long history, toolmakers continue to make

Ceramic General Turning

Ceramic General Turning - ISO Inserts Our Secomax™ ceramic insert grades provide optimized wear resistance and toughness

Ceramic General Turning

Our Secomax™ ceramic insert grades provide optimized wear resistance and toughness when cutting parts from heat-resistant

Ceramic and CBN Inserts for Steel Mill Applications

Advantages of Ceramic Inserts Higher hardness than carbide supports high-speed cutting. Low thermal conductivity reduces

Ceramic Inserts

The GWS Advantage in Ceramic Technology With a legacy spanning over 50 years, GWS Tool Group is a pioneer and leader in

Machining performance of ceramic tool inserts during dry ...

Hence in the present investigation, microwave sintered alumina ceramic (with a purity of 99.95%) tool inserts are used for dry

KYOCERA Precision Tools

These insert grades combines an innovative coating, carbide substrate, and chip breakers to deliver exceptional

High-Precision Ceramic Inserts for CNC Machining | Guass -

Explore premium-grade Ceramic Inserts trusted by manufacturers worldwide. The Ceramic Inserts ensures superior performance in

canelatools-store

We would like to show you a description here but the site won't allow us.

Indexable Cutting Tool Catalog

Stay up-to-date with our extensive indexable turning, milling, grooving & cut-off, threading and drilling solutions in our online catalog.

Ceramic Insert Tool Holder

Ceramic Insert Tool Holder Designed for cutting hard materials like tool steel, this ceramic insert tool holder features a triangular

Greenleaf Ceramics

Discover Greenleaf's advanced ceramic tooling solutions at Factory Tooling Solutions. Featuring WG-700 ceramic inserts, ceramic

NTK Cutting Tools

Ceramic inserts deliver measurable gains in cast iron machining by operating at cutting speeds beyond conventional

Lathe Ceramic Inserts | McMaster-Carr

Ceramic Alumina Lathe Tool Inserts for Hardened Steel and Cast Iron These inserts are made with a black ceramic alumina on the

Ceramic Inserts | McMaster-Carr

Also called whisker ceramic inserts, they last up to four times longer than carbide inserts when cutting nickel- or cobalt-based

Indexable Ceramic Mills

If your operation requires high feed rates or fast machining, ceramic inserts, end mills or shell mills may be the way to go. Choose

Ceramic Cutting Materials for Machining

Under the SPK® brand CeramTec offers a unique program in terms of scope, diversity and performance of

ceramic inserts

GWS Tool Group, a leader in the development of pressed-to-size ceramic inserts is now offering this unique tooling in grades MW30,

Ceramic Insert Lathe Tools | McMaster-Carr

Choose from our selection of ceramic insert lathe tools in a wide range of styles and sizes. Same and Next Day Delivery.

Ceramic General Turning

Our Secomax™ ceramic insert grades provide optimized wear resistance and toughness when cutting parts from heat-resistant

Tungsten Carbide Cermet Insert, Ceramic Cutting Insert Tool

CYCT's cermet inserts combine the hardness of ceramics with the toughness of metals, offering excellent wear resistance and

Greenleaf Corporation Metalcutting Inserts and Tools Manufacturer

Greenleaf Corporation is a leading supplier of industrial cutting tools, specializing in the manufacturing of high-performance tungsten

High-Precision Ceramic Inserts for CNC Machining

Enhance your machining accuracy and efficiency with high-performance Ceramic Inserts engineered by

Ceramic and CBN Inserts for Steel Mill Applications

Ceramic and CBN tools can outperform conventional carbide tools in speed and tool life. The best

Ceramic Inserts | McMaster-Carr

Also called whisker ceramic inserts, they last up to four times longer than carbide inserts when cutting nickel- or cobalt-based

Indexable Ceramic Mills

If your operation requires high feed rates or fast machining, ceramic inserts, end mills or shell mills may be the way to go. Choose

Ceramic Cutting Materials for Machining

Under the SPK® brand CeramTec offers a unique program in terms of scope, diversity and performance of

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: <https://rivomultitrade.co.za>

Technical inquiry: <https://rivomultitrade.co.za/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

