

CNMG-ZMS

Product Images



ZMS

—— Chip-breaker ——

Summary

ZANHO CNMG-ZMS series is a high-precision **80° rhombic turning insert** specifically engineered for **Stainless Steel and High-Temperature Alloys**. Featuring a unique **Wave-Shaped Edge** and

controlled positive rake geometry, it solves the pain points of sticky materials and work hardening. With its **Double-Sided 8-edge design** and anti-BUE (Built-Up Edge) features, it delivers exceptional surface integrity and cost-efficiency in semi-finishing operations.

Content

Key Performance & Features

- **Wave-Shaped Edge Geometry:** Constraints the chip flow direction to prevent surface scratching and reduce heat buildup, ensuring a superior surface finish.
- **Micro-Negative Land:** Perfectly balances sharpness and edge strength to prevent micro-chipping while maintaining the low cutting forces needed for tough alloys.
- **Anti-BUE Structure:** Optimized cavity surfaces reduce the contact area between the chip and tool, significantly suppressing Built-Up Edge (BUE) and crater wear.
- **Stable Semi-Finishing:** Tuned specifically for depths of 0.2-2.5mm and light feeds, delivering consistent short chips for automated CNC production.
- **Superior 8-Edge Economy:** Full double-sided design providing 8 sharp cutting corners, dramatically lowering your tool cost-per-part in high-volume machining.

Technical Specifications

Model	Feed (f)	Cut Depth (ap)
CNMG120402-ZMS	0.08 - 0.25 mm/r	0.2 - 2.5 mm
CNMG120404-ZMS	0.08 - 0.25 mm/r	0.2 - 2.5 mm
CNMG120408-ZMS	0.08 - 0.25 mm/r	0.2 - 2.5 mm

Optimizing for Heat-Resistant Alloys?

ZANHO offers premium PVD coated grades (e.g., ZP25) specifically for titanium and high-temp alloys. Contact our team for customized turning solutions.