

ENMU100412ZER-PH

ZANHO Cutting Tools



ENMU-PH

—— Milling Inserts ——

Interchangeable with DIJET

Feature

ZANHO ENMU100412ZER-PH is a high-efficiency **double-sided 4-edge** milling insert specifically engineered for the **mold industry**. Featuring an advanced **3D PH chipbreaker**, it reduces cutting

resistance by 6% and increases structural strength by 20% over traditional designs. Perfect for **high-feed roughing** in long-overhang conditions, it maximizes metal removal rates while ensuring superior spindle protection and economic value.

Descriptions

Key Technical Advantages

- **Advanced 3D PH Chipbreaker:** Combines a 3D geometry with a wavy cutting profile to reduce cutting resistance by approximately 6%, ensuring light cutting even during high-feed passes.
- **Enhanced Impact Resistance:** The insert cross-section is 20% stronger than traditional high-feed inserts, excelling in interrupted machining and components with hard scale or crust.
- **Double-Sided 4-Edge Economy:** Provides four usable cutting corners per insert, significantly lowering the tool cost-per-edge for large-scale mold roughing operations.
- **Stability in Long Overhangs:** Optimized geometry suppresses vibrations and reduces spindle load, maintaining stable process security even with large tool extensions.
- **Multi-Process Versatility:** High performance across pocketing, profiling, plunging, ramping, and helical interpolation, effectively reducing subsequent machining allowances.

Insert Dimensional Specifications (mm)

Model	Insert Shape	s (Thickness)	r? (Radius)	ap max	Edges
ENMU100412ZER-PH	E-Type Rhombic	4.0 mm	1.2 mm	1.0 mm (High Feed)	4

Ready for High-Efficiency Mold Roughing?

ZANHO ENMU series provides the stability and metal removal rates needed for today's mold industry. Contact us for bulk B2B inquiry and technical material guides.