

# 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.