

# 490R-PL

## ZANHO Cutting Tools



**490R-PL**

—— Milling Inserts ——

## Feature

ZANHO **490R-140408M-PL** is a high-performance **90° square shoulder** milling insert specifically engineered for **steel roughing and medium machining**. The specialized **PL chipbreaker**

provides a reinforced cutting edge that excels under high feed rates and heavy depths of cut, resisting impact while maintaining stable chip evacuation. Equipped with a large **1.74mm wiper edge**, it delivers an exceptional surface finish even in continuous cutting conditions with light scale, ensuring high productivity and extended tool life.

## Descriptions

### Key Technical Advantages

- **Steel-Optimized PL Geometry:** Specifically developed for medium to heavy roughing of steel components, balancing edge strength with high metal removal rates.
- **Impact-Resistant Edge:** The reinforced PL chipbreaker is designed to handle high cutting depths and feed rates, providing superior resistance to thermal and mechanical shock.
- **1.74mm Wiper Performance:** Features an integrated precision wiper flat (Bs) that smoothens the workpiece surface, reducing the need for secondary finishing operations.
- **Smooth Chip Evacuation:** The enlarged chip gullet geometry prevents chip jamming during high-volume milling, ensuring process stability in continuous operations.
- **Precision 90° Verticality:** Designed for standard 90-degree cutters to achieve excellent squareness on steps and faces, maintaining high dimensional accuracy.

### Dimensional Specifications (mm)

| Model           | L (Length) | I.C (mm) | S (Thickness) | R (Corner R) | d (Hole Dia) | Bs (Wiper) |
|-----------------|------------|----------|---------------|--------------|--------------|------------|
| 490R-140408M-PL | 13.8       | 13.8     | 4.2           | 0.8          | 4.15         | 1.74       |

#### Ready for Heavy Steel Milling?

ZANHO 490R-PL series is engineered for durability and speed in high-load applications. Contact us for wholesale pricing and material grade recommendations.