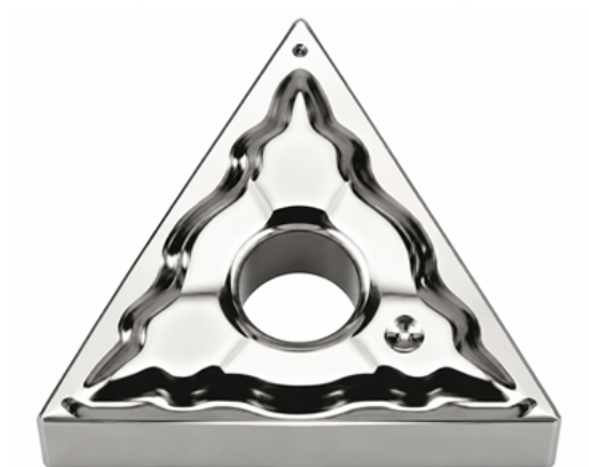


TNMG-HA

ZANHO Cutting Tools



TNMG-**HA**

Aluminum Inserts

Feature

ZANHO TNMG-HA series: High-performance **uncoated carbide inserts** with a **buffed (mirror-polished)** rake face. Specifically engineered for **medium-roughing** of aluminum and non-ferrous

metals, the -HA chipbreaker delivers exceptional chip control and prevents built-up edge (BUE), ensuring high-efficiency machining and superior surface quality.

Descriptions

Technical Features

- **Mirror Polished Rake Face:** Buffed surface minimizes friction and prevents aluminum welding/adhesion.
- **HA Chipbreaker:** Optimized for medium-roughing operations with excellent chip evacuation.
- **Uncoated Carbide Grade:** Specifically formulated for high-speed machining of aluminum and non-ferrous alloys.
- **Sharp Cutting Edge:** Provides clean cuts and reduces vibration during heavy machining.
- **High Compatibility:** Fits standard ISO tool holders (PTFNR, PTGNR, PTENR, WTJNR).

TNMG-HA Dimensions (mm)

ISO Designation	L	I.C	S	D1	R
TNMG160402-HA	16.5	9.525	4.76	3.81	0.2
TNMG160404-HA					0.4
TNMG160408-HA					0.8

Matching Accessories

Tool Holder	Shim	Clamp	Screw	Wrench
PTFNR/L, PTGNR/L	CTM513	HL1814	ML0625	L2.0, L3.0
PTENR/L, WTJNR/L	CTM617	HL1917	ML0803	L2.5, L4.0