

VCGT-AK

ZANHO Cutting Tools



VCGT-AK

Aluminum Inserts

Feature

ZANHO **VCGT-AK series**: Ultra-sharp **35° rhombic inserts** specifically engineered for high-precision machining of aluminum and non-ferrous metals. Designed with a **large positive rake**

geometry and a **mirror-polished rake face**, these inserts minimize cutting resistance and prevent chip welding (BUE). The specialized **segmented open chipbreaker** ensures stable chip control, making them perfect for intricate profiling, tapering, and high-speed internal boring.

Descriptions

Technical Advantages

- **Mirror-Polished Rake Face:** Ultra-smooth buffed surface effectively prevents chip adhesion and built-up edge (BUE) in non-ferrous materials.
- **Large Positive Rake Geometry:** Provides an exceptionally sharp cutting edge, reducing cutting forces and minimizing tool vibration.
- **Segmented Open Chipbreaker:** Delivers precise and stable chip curling and evacuation, even in narrow or enclosed spaces.
- **Superior Profiling Capability:** The 35° sharp rhombic profile allows for machining complex contours and steep angles with high clearance.
- **High Surface Integrity:** Delivers optical-grade surface finish and high dimensional accuracy on all aluminum alloys.

VCGT-AK Dimensions (ISO Standard)

Model	Edge Length L (mm)	Thickness S (mm)	Bore D (mm)	Radius R (mm)
VCGT110302-AK	11.0	3.18	4.3	0.2
VCGT110304-AK	11.0	3.18	4.3	0.4
VCGT110308-AK	11.0	3.18	4.3	0.8
VCGT160402-AK	16.5	4.76	5.16	0.2
VCGT160404-AK	16.5	4.76	5.16	0.4
VCGT160408-AK	16.5	4.76	5.16	0.8
VCGT160412-AK	16.5	4.76	5.16	1.2
VCGT160420-AK	16.5	4.76	5.16	2.0