VBGT-AK

ZANHO Cutting Tools



Feature

ZANHO **VBGT-AK series**: High-precision **35° rhombic positive inserts** optimized for aluminum and non-ferrous alloys. Designed with a **large positive rake geometry** and a **buffed mirror-**

polished rake face, these inserts minimize cutting resistance and prevent chip welding (BUE). The **wave-style open chipbreaker** ensures stable chip evacuation, making them perfect for high-speed external turning, internal boring, and complex profiling with optical-grade surface finish.

Descriptions

Technical Advantages

- **Mirror-Polished Rake Face:** Significantly reduces cutting friction and effectively prevents aluminum adhesion and built-up edge (BUE).
- **Large Positive Rake Geometry:** Ensures light and sharp cutting action, reducing cutting forces and minimizing tool vibration.
- **Wave-Style Open Chipbreaker:** Facilitates mandatory and stable chip curling, ensuring smooth evacuation even at high feed rates.
- **Superior Profiling Capability:** The 35° positive rhombic profile is ideal for intricate profiling and machining narrow contours with high clearance.
- **High Surface Integrity:** Precision ground edges deliver exceptional surface brightness and maintain tight dimensional tolerances.

VBGT-AK Dimensions (ISO Standard)

Model	Edge Length L (mm)	Thickness S (mm)	Bore D (mm)	Radius R (mm)
VBGT110302-AK	11.0	3.18	4.3	0.2
VBGT110304-AK	11.0	3.18	4.3	0.4
VBGT110308-AK	11.0	3.18	4.3	0.8
VBGT160402-AK	16.5	4.76	5.16	0.2
VBGT160404-AK	16.5	4.76	5.16	0.4
VBGT160408-AK	16.5	4.76	5.16	0.8