SCGT-AK

ZANHO Cutting Tools



SCGT-AK

Aluminum Inserts

Feature

ZANHO **SCGT-AK series**: High-precision **square positive inserts** optimized for aluminum and non-ferrous alloys. Featuring **4 effective cutting edges** for maximum economy, these inserts are

designed with a **large positive rake geometry** and a **buffed mirror-polished rake face**. They significantly reduce cutting resistance and prevent built-up edge (BUE), making them ideal for high-speed external turning, internal boring, and profiling with superior surface brightness.

Descriptions

Technical Advantages

- **Mirror-Polished Rake Face:** Ultra-smooth buffed surface effectively prevents chip adhesion and built-up edge (BUE) in aluminum machining.
- **Large Positive Rake Geometry:** Provides exceptionally sharp cutting edges, reducing cutting forces and minimizing tool vibration.
- **Segmented Open Chipbreaker:** Specialized geometry ensures stable and mandatory chip curling for smooth evacuation at high speeds.
- **High Economic Efficiency:** The square geometry provides 4 effective cutting edges per insert, reducing overall tooling costs.
- **Excellent Versatility:** Perfectly suited for external turning, internal boring, face machining, and profiling of all non-ferrous metals.

SCGT-AK Dimensions (ISO Standard)

Model	Edge Length L (mm)	Thickness S (mm)	Bore D (mm)	Radius R (mm)
SCGT09T302-AK	9.525	3.97	4.4	0.2
SCGT09T304-AK	9.525	3.97	4.4	0.4
SCGT09T308-AK	9.525	3.97	4.4	0.8
SCGT120402-AK	12.7	4.76	5.5	0.2
SCGT120404-AK	12.7	4.76	5.5	0.4
SCGT120408-AK	12.7	4.76	5.5	0.8
SCGT120412-AK	12.7	4.76	5.5	1.2