

SPGT-AL

ZANHO Cutting Tools



SPGT-AL

Aluminum Inserts

Feature

ZANHO **SPGT-AL 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 chip adhesion (BUE), making them ideal for high-speed semi-finishing and finishing of external, internal, and face surfaces.

Descriptions

Technical Advantages

- **Mirror-Polished Rake Face:** Significantly reduces cutting friction and effectively prevents aluminum adhesion and chip welding (BUE).
- **Large Positive Rake Geometry:** Ensures sharp and light cutting action, reducing tool vibration and cutting resistance even in soft materials.
- **Open Profile Chipbreaker:** Optimized for stable chip curling and smooth evacuation across varied semi-finishing and finishing conditions.
- **High Precision Ground Edges:** Guarantees excellent surface brightness and maintains strict dimensional accuracy on the workpiece.
- **Square 4-Edge Economy:** Provides 4 usable cutting edges per insert, delivering a perfect balance of high performance and low cost-per-edge.
- **Versatile Machining:** Universal design suitable for high-speed external turning, internal boring, and face machining of all non-ferrous workpieces.

SPGT-AL Dimensions (ISO Standard)

Model	Edge Length L (mm)	Thickness S (mm)	Bore D (mm)	Radius R (mm)
SPGT050204-AL	12.7mm	2.38mm	3.2mm	0.4mm
SPGT060204-AL	15.875mm	2.38mm	4.0mm	0.4mm
SPGT07T308-AL	19.05mm	3.97mm	4.5mm	0.8mm
SPGT090408-AL	22.225mm	4.76mm	5.5mm	0.8mm
SPGT110408-AL	27.0mm	4.76mm	6.0mm	0.8mm
SPGT120412-AL	30.16mm	4.76mm	6.5mm	1.2mm