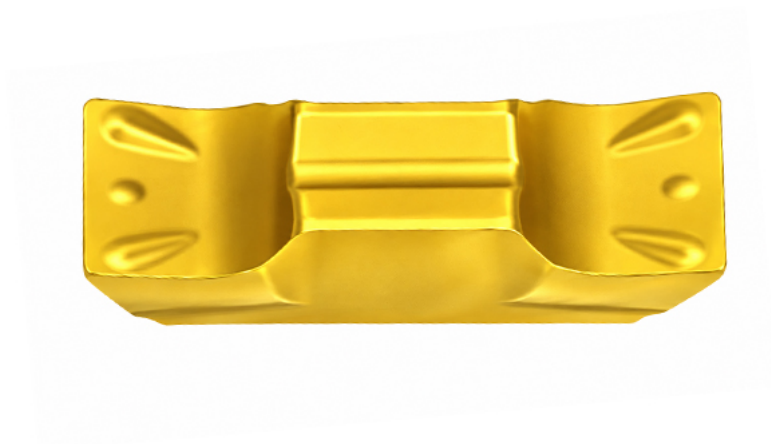


SIM-02

ZANHO Cutting Tools



SIM-02

Grooving Inserts

Feature

ZANHO **SIM series**: Precision **internal grooving inserts** with a specialized "Yuanbao" chipbreaker for enclosed spaces. Featuring a **short-edge structure**, these inserts are engineered

to prevent interference in small bores (starting from $\varnothing 14\text{mm}$) while enabling deep groove machining. The **double-sided 2-edge design** ensures maximum economy, combined with a positive rake angle for low cutting resistance and high surface finish.

Descriptions

Technical Advantages

- **Short-Edge Structure:** Specifically designed for small-diameter internal grooving ($\varnothing 14\text{mm}$ min.) to avoid tool interference and reach deeper grooves.
- **Double-Sided 2-Edge Design:** Offers two cutting edges per insert, significantly reducing tooling costs.
- **"Yuanbao" Style Chipbreaker:** Unique central protrusion facilitates mandatory chip curling and evacuation in enclosed internal cavities.
- **High Edge Strength:** Reinforced edge geometry provides exceptional resistance to vibration and fracture in unstable conditions.
- **Low Cutting Resistance:** Positive rake angle design ensures sharp cutting action and reduces load on small-diameter boring bars.
- **High Interchangeability:** Standardized domestic model compatible with a wide range of industry-standard tool holders.

SIM Series Dimensions & Matching Holders

Model	Width W (mm)	Max apmax	Thickness S	Length L	Width Wb	Radius R	Edg
SIM200-02	2	3.5	2.38	12	6.2	0.2	2
SIM250-02	2.5	3.5	2.38	12	6.2	0.2	2
SIM300-02	3	3.5	2.38	12	6.2	0.2	2

*Note: Due to the short-edge design, depth of cut should not exceed apmax. Primarily for internal grooving applications.