

SPMG-DG

ZANHO Cutting Tools



SPMG-DG

— Drilling Inserts —

Feature

ZANHO SPMG-DG series is a high-performance **indexable drill insert** specifically designed for difficult **drilling operations in sticky materials** such as stainless steel, titanium, and high-

temperature alloys. Featuring a large **positive rake angle** and a specialized **DG guide cavity**, it significantly reduces drilling resistance and ensures stable chip curling and evacuation. With its robust **4-edge square geometry**, it delivers exceptional cost-efficiency and reliable edge integrity for conventional shallow-hole CNC drilling.

Descriptions

Key Performance & Features

- **Sticky Material Specialist:** Engineered to solve high cutting resistance and chip evacuation issues in stainless steel, titanium, and nickel-based alloys.
- **Large Positive Rake Geometry:** Reduces drilling load and suppresses work hardening, ensuring stable performance even on lower-rigidity machines.
- **DG Chipbreaker Technology:** Specialized flow guide cavity fragments wide chips into short segments, preventing clogging in the drill body flutes.
- **Reinforced Edge Strength:** Controlled negative land on the cutting edge balances sharpness with impact resistance, protecting the tip during U-drill entry.
- **Universal Material Application:** Highly versatile across Carbon Steel (P), Stainless Steel (M), and Cast Iron (K), optimizing tool management.

Dimensional Specifications

Model	D (mm)	d1 (mm)	S (mm)	R (mm)
SPMG 04T102-DG	3.97	1.97	1.85	0.2
SPMG 050204-DG	5.00	2.25	2.38	0.4
SPMG 060204-DG	6.00	2.61	2.38	0.4
SPMG 07T308-DG	7.94	2.85	3.97	0.8
SPMG 090408-DG	9.80	4.05	4.30	0.8
SPMG 110408-DG	11.5	4.45	4.80	0.8
SPMG 140512-DG	14.3	5.57	5.2	1.2

Need Custom Drilling Solutions?

ZANHO offers a complete range of indexable drill bodies and specialized coatings. Contact us for bulk B2B inquiry and technical parameter optimization.