

Solid carbide micro drills

Sphinx Tools Ltd. is your partner for innovative machining solutions. We provide the perfect tool for every application, along with excellent after-sales service. All Sphinx products are developed and produced entirely in Switzerland.



Thinner than a hair!

Solid carbide micro drills

With its extensive range of micro drills, Sphinx Tools Ltd. provides the perfect tools for micro-machining applications.

Sphinx manufactures millions of micro drills with proven capabilities and are guaranteed to handle the most demanding applications. The ranges include Micro NC spotting drills with 90° and 130° point angles, the established Spirec drills (from 0.05 mm – 2.00 mm in increments of 0.01 mm) and tip drills up to 15xd.

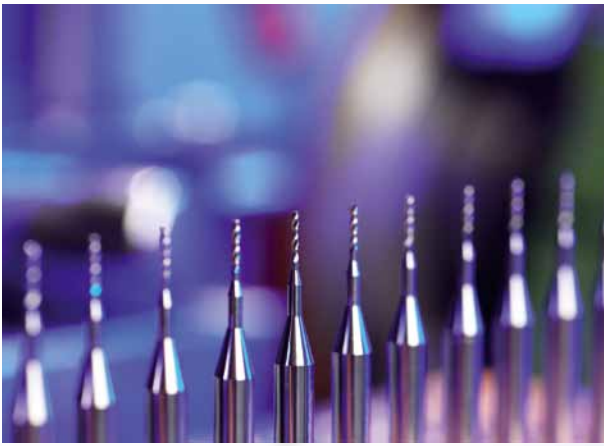
Two new types are available: the ultra-micro drill with a (\varnothing 3.00 mm) reinforced shank, and a micro-drill with a diameter tolerance (of 0/ +0.004 mm).

The reinforced core and exceptional surface finish allow very tight bore tolerances and high positioning accuracy.

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Product advantages:

- Reinforced core for high stability
- Optimum point geometry
- Finest surface finish for optimum chip evacuation
- Tight hole bore tolerances combined with high positioning accuracy
- Solid carbide material (ultra fine grain carbide) for high wear resistance and high toughness
- Drill dimensions according to DIN 1899 or Sphinx standards
- Special dimensions are available upon request.

Useable on:

- Steel
- Titanium
- Stainless materials
- Cast iron materials (GG, GGG, GGV)
- Plastics

Micro drills from Sphinx provide the perfect tool for micro-machining applications

Working examples: Art. 56005, 50699, 50620, 56030, 51200 and 50695: Ø 0,05 – 2,00 mm

Tool description	Catalog article 50699	Catalog article 56030	Catalog article 51200	Catalog article 51200	Catalog article 50695
Coating		Hardlube			
Diameter	0,18 mm	1,00 mm	0,80 mm	0,80 mm	0,40 mm
Hole depth	0,70 mm	4,00 mm	4,00 mm	4,50 mm	1,75 mm
Hole	Through hole	Blind hole	Blind hole	Blind hole	Through hole
Material group	Ball-bearing steel	Stainless steel	Titanium Grade 5	Aluminium	Copper
Material number	1.3505	1.4435	3.7165	3.2315	2.1293
DIN	100 Cr 6	X2CrNiMo18-14-3	6 Al-4V	AlMgSi1	CuCrZr alloy
Machine type	CNC	CNC	CNC	CNC	CNC
Coolant	External/emulsion	External/emulsion	External/emulsion	External/emulsion	External/emulsion
v _c (m/min)	7,0	35	22	50	26
f (mm/U)	0,001	0,01	0,015	0,03	0,018

Available for delivery ex stock: diameter range 0,05 – 2,00 mm

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