Pilot step drill and
spotting and chamfering drill
Sphinx Tools Ltd. is the right partner for innovative solutions in machining. The right tool for each application, with after-sales service being provided as a matter of course. All Sphinx products are developed and manufactured entirely in Switzerland.

Centering and chamfering

Centering and chamfering the drill hole quickly and easily in a single work step

Sphinx Tools Ltd. has developed the ideal tools for centering and chamfering drill holes in the ø-range 0.40 mm to 12.00 mm. The special geometries ensure a very long life for the tools. Spotting and chamfering drills and pilot step drills are used to improve on the conventional process.

The **pilot step drill** is used as a centering and pilot drill (2 × ø) with a chamfer of 90° in the range from 0.40 mm to 3.00 mm.

The **spotting and chamfering drill** is intended for centering and countersinking (chamfer) in a single work step in the ø-range from 1.60 mm to 12.00 mm.

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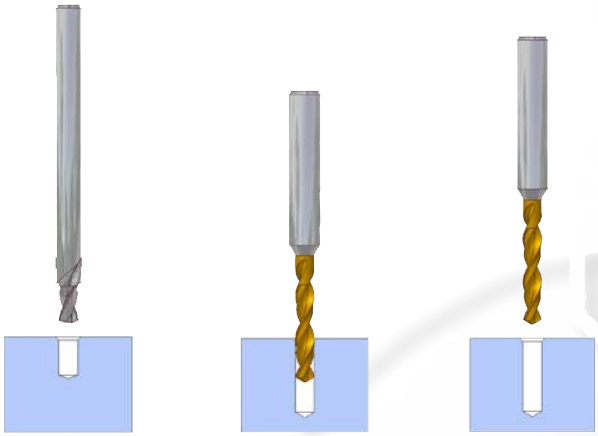

Pilot step drill Art. 56036

The pilot step drill is designed to drill the centre hole with a 90° chamfer as well as the actual drill hole (< 2 × ø) in a single work step.
This ensures optimum positioning and guiding of the drill tools that are used afterwards.

Spot-drilling (< 2 × ø) and centering	Point angle 140° Step angle: 90°
Design: 2-fluted	4-faced point grinding self-centering
Twist: right-handed	Coating: Helica
Angle of twist: 30° plus degressive	

Spotting and chamfering drill Art. 50818

The spotting and chamfering drill is intended for centering and chamfering in a single work step.
It combines spotting at 142° and chamfering at 90° with the correct angle for the drill tools that are used afterwards.

Centering and chamfering	Point angle: 140° and 90°
Design: 2-fluted	4-faced point grinding self-centering
Twist: right-handed	Coating: None
Angle of twist: 20°	The spotting and chamfering drill is available for standard metric threads M2 to M12 and all even millimetre sizes from ø 1.6 to ø 12.0.

Centre hole drilling and chamfering in a single work step

Advantages

- The following tool starts precisely in the centre of the centre hole, thus ensuring a perfect positioning of the drill hole.
- The cutting edges of the tools used afterwards will not be damaged, thus resulting in a longer tool life of the subsequent drill.
- The drill hole is chamfered directly with a 90° angle. This saves on the cost of a whole work step as well as that of a second tool.

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