No.137 Difference between Point Drills and Starting Drills

【Consultation】

Please explain the difference between point drill and starting drill in applications and design.

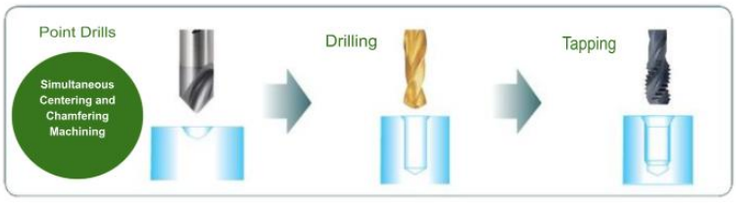
【Answer】

Point drill can do positioning and chamfering simultaneously. Starting drill has 2 different types, for positioning and chamfering. Please see below for more details.

【Explanation】 ▪ Point Drills

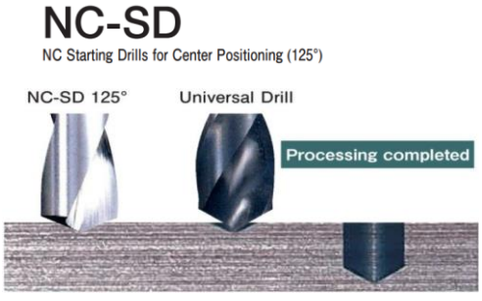
Point drill has 125° edge angle and a chamfer angle of 90° (or 60°), so it can do 2 processes simultaneously.

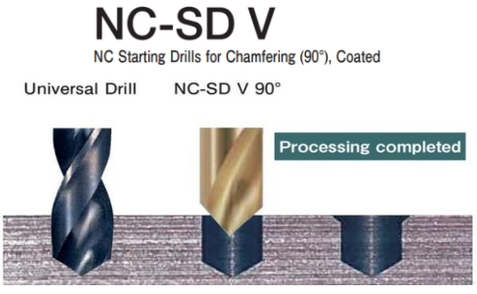
Machining Process



▪ **Starting Drills**

Starting drill has 2 different types. NC-SD for positioning with 125° edge angle. NC-SD V is for chamfering with a 90° chamfering angle. They have different designs for different applications.





Point drill was developed to reduce cost per part by process integration, optimized cutting conditions, and reduced the cost of cutting tools.

1. Simultaneous positioning and chamfering with one process.
2. Two staged flat shape ensures a high-quality finish.
3. Rigid design allows for high-speed drilling.
4. Anti-torsion design achieves a fine surface finish.

The point drill is a highly versatile tool.