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# HEXIS

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PROFESSIONAL REPRESENTATION  
FOR THE INDUSTRIAL  
MANUFACTURER





# METAL CUTTING

## Areas of Manufacturing

- ✦ Milling
- ✦ Turning
- ✦ Hole Making
- ✦ De-Burring
- ✦ Knurling
- ✦ Thread Milling







# MILLING

- Milling is the machining process of using rotary cutters to remove material.
- It is one of the most commonly used processes for machining custom parts to precise tolerances.



# TURNING

- Turning is a machining process in which a cutting tool describes a helix toolpath by moving more or less linearly while the workpiece rotates.
- The tool's axes of movement may be literally a straight line, or they may be along some set of curves or angles, but they are essentially linear







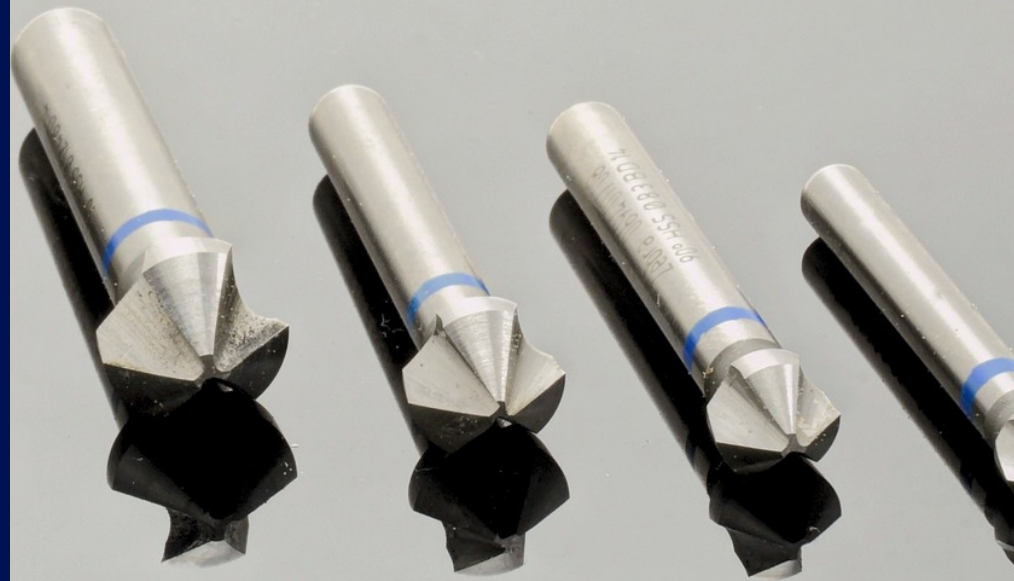
# HOLE MAKING

- Drilling, the most common of holemaking processes, consumes half of the cutting tools used in all chip making processes.
- In most cases, the drill creates a cylindrical hole by rotational action, cutting into a fixed workpiece.



# DE-BURRING

- During most machining processes, work pieces become burred, and sharp edges or material compression occurs.
- This effects the quality of the part and can create a potential sources of error during the assembly process.
- Lapmaster Wolters offers 2 option for your deburring needs.







# KNURLING

- Knurling is a process of impressing a diamond shaped or straight line pattern into the surface of a workpiece by using specially shaped hardened metal wheels to improve its appearance and to provide a better gripping surface.



# THREAD MILLING

- Thread milling produces threads with the circular ramping movement of a rotating tool. The lateral movement of the tool in one revolution creates the thread pitch.
- thread milling achieves high productivity in certain applications.





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*Thank You*

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