

MACHINING 2 - KEY

1. Read the following text and complete the gaps using the words in the box:

Sawing

Turning

Milling

Drilling

Grinding

MACHINING WITH CUTTING TOOLS

1. **Milling** is cutting down by a milling machine, often using toothed cutting discs. When a workpiece is milled, it is held in a fixed position on the machine and is shaped by cutting tools which rotate while being moved over the surface of the workpiece.
2. **Turning** is a technique for cutting components that have a circular cross-section. The workpiece is turned by a machine called a lathe, which rotates the workpiece. A fixed machine tool is then moved against the rotating workpiece to cut material from it.
3. **Sawing** is cutting using a blade, which usually has teeth, to remove a thickness of material slightly wider than the blade. The gap left by the blade, along the line of the cut, is called a kerf. Machines that use toothed blades, include circular saws, band saws, and power hacksaws. A hacksaw has a blade with very small teeth, for cutting metal. Saws may also use abrasive wheels often made of industrial diamond.
4. **Drilling** is a technique for cutting circular holes. A machine called a drill is fitted with a tool called a drill bit (or bit). The bit rotates and drills into the material. Holes with large diameters can be cut using holesaws. When used to drill into concrete, this technique is also called core drilling, or diamond drilling, as the holesaws have industrial diamond edges. Usually, drilling refers to making new holes. In machining, enlarging a hole is called boring.
5. **Grinding** is removing material across a surface area, using abrasive wheels. The machines used to grind materials with abrasive wheels are called grinders.

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2. Translate the following words into Spanish:

Milling	Fresado
Turning	Torneado
Sawing	Serrado
Drilling	Taladrado
Grinding	Esmerilado

3. Find words in the text that mean:

- Wheels with teeth that have sharp edges
- To spin
- The flat cutting part of an implement
- Circular cutting wheels with rough, hard surfaces
- To make a hole wider

Toothed cutting discs

To rotate

Blade

Abrasive wheels

To enlarge

4. Complete the descriptions below the photos using the words in the box. Look at the text to help you.

abrasive	blade	bit	holesaw	toothed	drilling	hacksaw
saw	wheel	circular	diamond	blade	drill	



a **drill** **bit**
for metal



a **holesaw**



a **toothed** **blade** for a
circular **saw**



a **blade** for a
hacksaw



a thick **abrasive**
wheel on a grinder



cores of concrete being
removed by **diamond**
drilling