

## **MACHINING 1 - KEY**

Read the text and do the follow-up activities:

### **MACHINING AND CNC**

Machining is the use of machines to cut pieces of material (called workpieces) and shape them into components. The tools used in machining, to make holes, grooves, threads, etc., are called machine tools. Metal is often machined. As it is cut, waste is produced, called swarf or chips. During machining, a liquid called cutting fluid may be pumped onto the workpiece to act as coolant, keeping the workpiece cool.

In manufacturing, machining is usually guided by computers called computer numerical control (CNC) systems. Often, design information (on shapes and sizes of components) is fed directly into CNC systems from computer aided design / computer aided manufacturing (CAD / CAM) software

1. Translate the following words into Spanish:

<b>Machining</b>	<b>Mecanizado</b>
<b>To shape</b>	<b>Dar forma</b>
<b>Holes</b>	<b>Agujeros</b>
<b>Grooves</b>	<b>Surcos, ranuras</b>
<b>Threads</b>	<b>Roscas</b>
<b>Swarf / Chips</b>	<b>Virutas / Astillas</b>
<b>Coolant</b>	<b>Refrigerante</b>

2. Complete the sentences with the correct word or words:

- Material being machined is called a
- The waste metal produced during machining
- Metal gets hot during cutting, so cutting fluid can be used as a
- A computer that guides a machining process is called a
- Drawings can be produced and transferred to the machining process using

**workpiece**

**Swarfs / chips**

**coolant**

**CNC system**

**CAD/CAM software**