

### A milling machine

A milling machine is an important piece of equipment, used in the manufacture of specially shaped items. It is often used alongside other similar machines, such as a lathe. Figure 1 shows, in simplified form, a side-view of knee-type horizontal milling machine.

Here are listed fourteen parts. Not all the parts are shown on the diagram.

Arbor

Arbor bearing

Column

Cutter

Guideway

Knee

Motor compartment

Overarm

Saddle

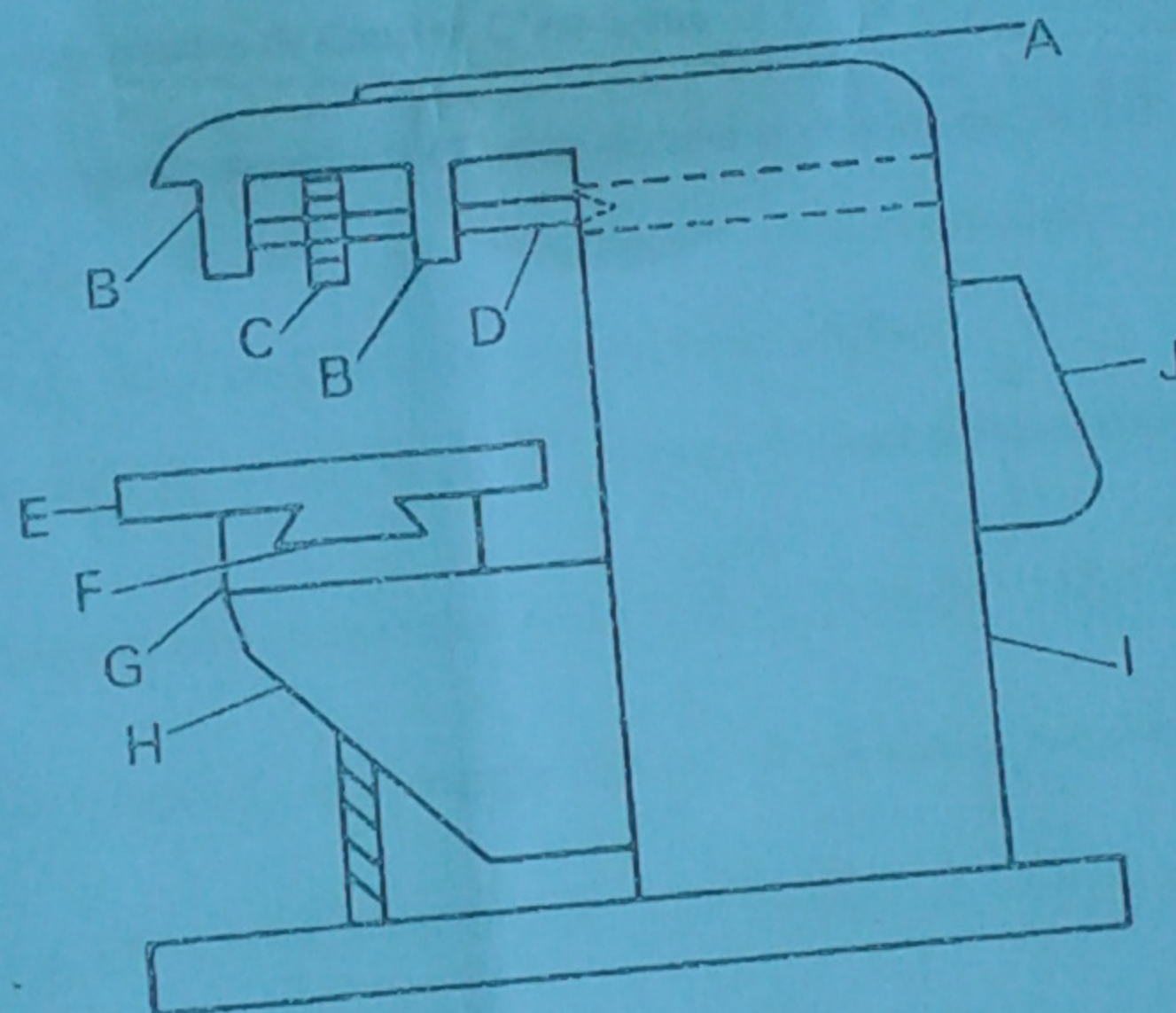
Spindle

Spindle motor

Workpiece

Worktable

Figure 1.  
Side view of a milling  
machine



- 5 pts → 1) Identify the ten parts which correspond to items A-J on Figure 1.  
5 pts → 2) Translate only the text into French.  
2 x 5 pts → 3) Write in about hundred words what will be your future doctorate project in both English and French.
- 20 pts