

## Module 7: CNC Programming and Industrial Robotics

### Lecture 1

#### CNC programming: fundamentals

CNC part program contains a combination of machine tool code and machine-specific instructions. It consists of:

- Information about part geometry
- Motion statements to move the cutting tool
- Cutting speed
- Feed
- Auxiliary functions such as coolant on and off, spindle direction

In this lecture, first we will understand the coordinate systems of the machine tools and how they work.

#### 1. CNC Machine Tool

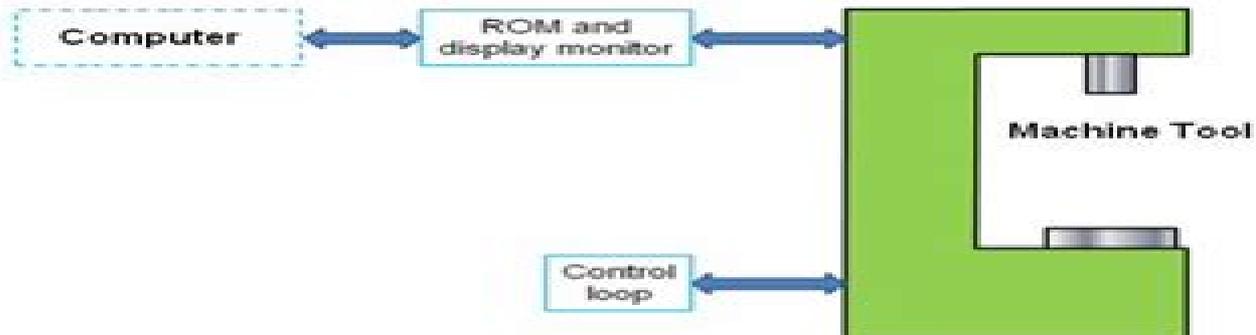


Figure 7.1.1 Schematic of a CNC machine Tool

Figure 7.1.1 shows a schematic of a machine tool controlled by a computer. It consists of a Machine Control Unit (MCU) and machine tool itself. MCU, a computer is the brain of a CNC machine tool. It reads the part programs and controls the machine tools operations. Then it decodes the part program to provide commands and instructions to the various control loops of the machine axes of motion. The details regarding the construction and working of mechatronics based system have already been studied in last lectures.

# Module 7 Cnc Programming And Industrial Robotics

## Lecture

**Xiaolong Qi**



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