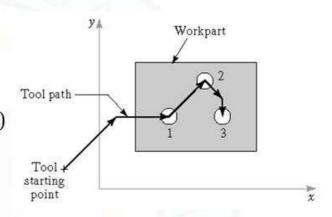
# **Motion Control System**

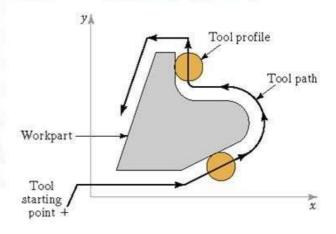
#### Point-to-Point systems

- · Also called position systems
- System moves to a location and performs an operation at that location (e.g., drilling)
- Also applicable in robotics

### Continuous path systems

- Also called contouring systems in machining
- System performs an operation during movement (e.g., milling and turning)





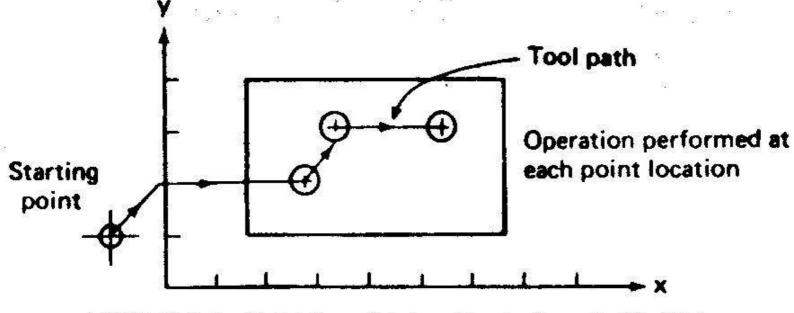


FIGURE 8.5 Point-to-point (positioning) control in NC.

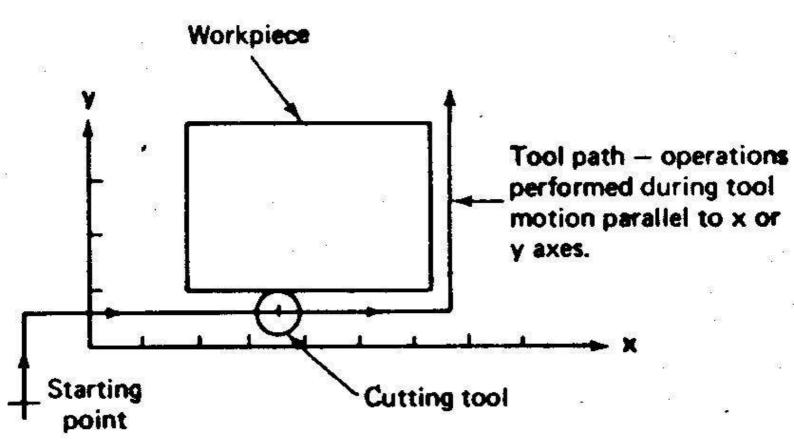


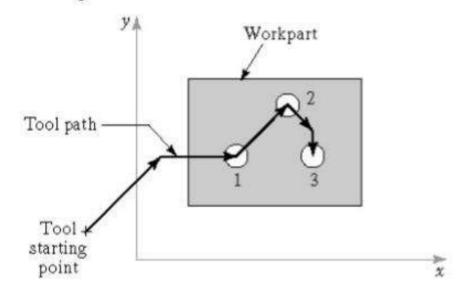
FIGURE 8.6 Straight-cut control in NC.

# Features of motion Control systems

#### Point-to-Point Versus Continuous Path Control:

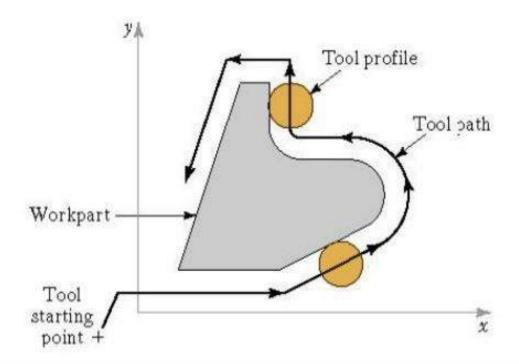
# 1-Point-to-Point Systems (positioning Systems):

 No regard to the path→ Just a series of point locations at which operations are performed.



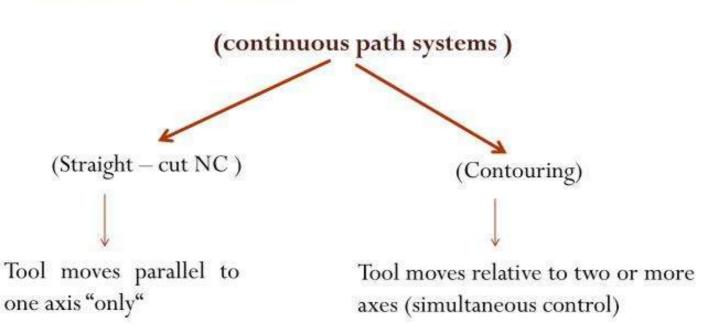
## 2. Continuous Path Systems:

 The tool trajectory relative to the workpart is controlled → Perform the process while moving .



### Fundamentals of NC technology

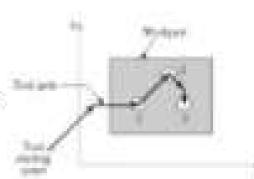
Motion Control Systems Continuous path systems:



# Motion Control Systems

#### Point-to-Point systems

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- System moves to a location and performs an operation at that location (e.g., drilling)
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