

### Process Types

Decision	Intermittent Operations	Continuous Operations
Product Variety	Great	Small
Degree of Standardization	Low	High
Organization of Resources	Grouped by function	Line flow to accommodate processing needs
Path of products through facility	In a varied pattern, depending on product needs	Line flow
Factors driving production	Customer orders	Forecast of future demand
Critical Resource	Labor-intensive (worker skills important)	Capital intensive (equipment, automation, technology support)
Type of Equipment	General purpose	Specialized
Degree of Automation	Low	High

### Product Layout

smooth, logical flow lines

single machine failure stops whole line

changing product design requires major layout change

### Group Technology Layout

shorter travel distance than process layout

reduced material handling

reduced setup time

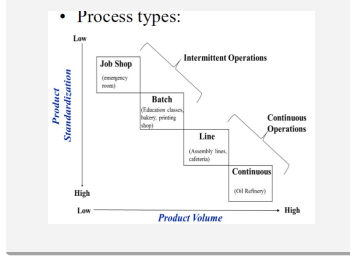
reduced in process inventory and tooling

### Intermittent vs Continuous Operations

total prod time per unit is short

pace of production depends on slowest machine

### Process Types



identical machines not fully utilised, so high investment required

### Service Layouts

Office Layouts	Retail Layouts
provide comfort, safety, and movement of information	maximise net profit per square space
Must be aesthetically pleasing as well as functional	

### Process Layout

better utilization of machines

highly flexible

reduced investment on machiens as they are general purpose

expensive material handling

production planning and control systems more involved

higher prod time as WIP travels alot for machines

skill diversity required

### Fixed-Position Layout

reduced material movement

highly flexible

increased movement of personnel and equipment

higher skill req

supervision needed

expensive

low equipment usage

