



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

COIMBATORE-35.



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DEPARTMENT OF AUTOMOBILE ENGINEERING

COURSE NAME : 19AUZ405 – LEAN MANUFACTURING

IV YEAR / VII SEMESTER

Topic –Implementation of Kanban



Kanban Sizing

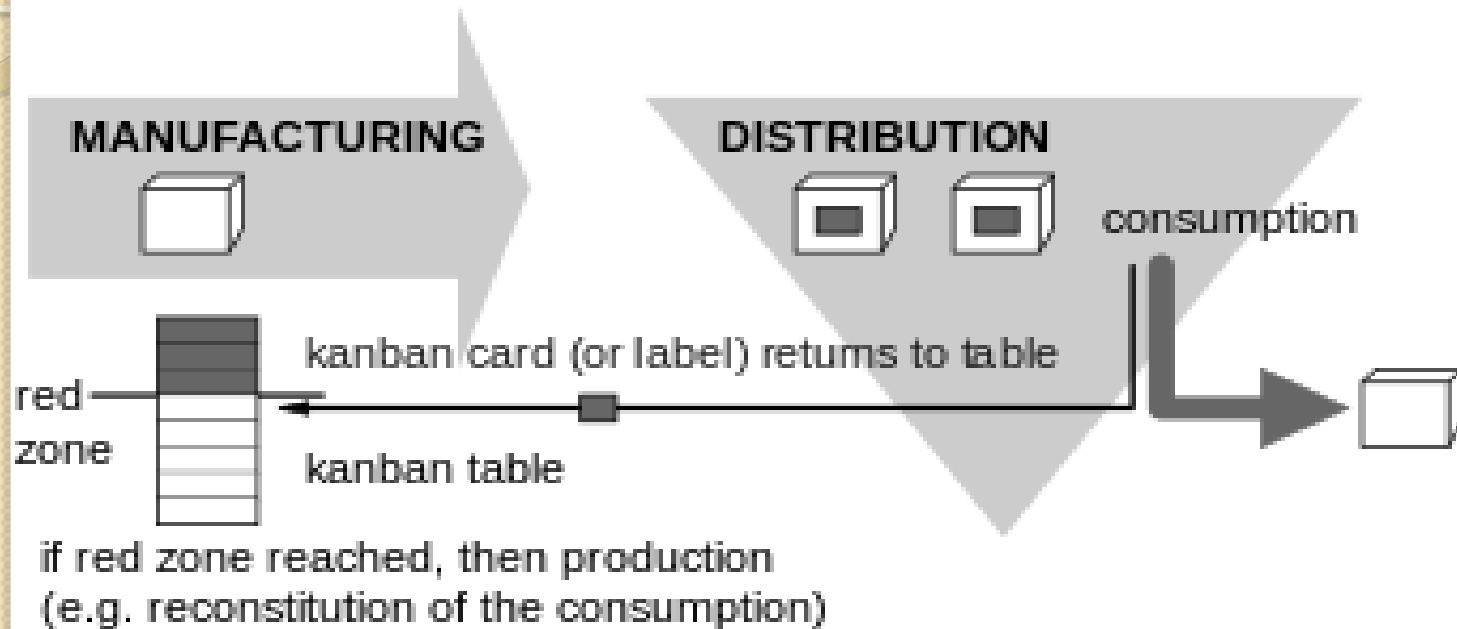
Kanban in manufacturing is an inventory organization structure that uses visual cues to move inventory through various stages of the manufacturing process.

It is a tool for lean manufacturing that aims to **prevent inventory pileup by initiating production only to restock empty reserves.**

Kanban is a “pull” system, meaning it responds to demand rather than predicting it. More inventory is created only when old inventory is “pulled” out of stock.



Kanban Sizing



- Kanban maintains inventory levels; a signal is sent to produce and deliver a new shipment as material is consumed. These signals are tracked through the replenishment cycle and bring extraordinary visibility to suppliers and buyers.



Kanban Sizing

What Are The Benefits of a Kanban System?

- Efficient
- Prevents Inventory Pileup
- Lowers Overhead
- Facilitates Teamwork
- Controls Workflow
- Improves Communication
- Prevents over production
- Provides managers progress reports
- Improves responsiveness to changes in demand
- Improves teamwork
- Kanban can reduce inventories by 75% in some industries
- Lowers overhead costs



Kanban Sizing

Toyota's Six Rules

1. Each process issues requests (Kanban) to its suppliers when it consumes its supplies.
2. Each process produces according to the quantity and sequence of incoming requests.
3. No items are made or transported without a request.
4. The request associated with an item is always attached to it.
5. Processes must not send out defective items, to ensure that the finished products will be defect-free.
6. Limiting the number of pending requests makes the process more sensitive and reveals inefficiencies



Kanban Sizing

Kanban (cards)

- Kanban cards are a key component of Kanban and they signal the need to move materials within a production facility or to move materials from an outside supplier into the production facility.
- The Kanban card is an essential component of Kanban, a work management framework which helps you visualize your work, limit work in progress (WIP), and maximize efficiency (or flow).
- A Kanban card contains valuable information about the task and its status, such as a summary of the assignment, responsible person, deadline, etc.



Kanban Sizing

Kanban card should have the minimum identification requirements:

1. Part number
2. Part description
3. Part quantity
4. Point of supply
5. Point of consumption
6. “One of... cards” (e.g., 1 of 3; 2 of 3; 3 of 3)



Kanban Sizing

Part Description				Part Number	
Smoke-shifter, left handed.				14613	
Qty	20	Lead Time	1 week	Order Date	9/3
Supplier	Acme Smoke-Shifter, LLC			Due Date	9/10
Planner	John R.		Card 1 of 2		
			Location	Rack 1B3	



Thank You !