

MATERIAL HANDLING SYSTEM DESIGN

The design of a material handling system depends upon the type and the characteristics of the materials to be handled.

Material Handling System Components

Material handling equipment:

unitizing equipment

material transport equipment

storage and retrieval equipment

automatic identification and communication equipment.

MATERIAL HANDLING SYSTEM COMPONENTS.

Unitising equipment:

containers, such as cartons, boxes, and bag

carriers or support, such as pallets, skids, and plywood

stretch wrap

shrink-wrap.

MATERIAL TRANSPORT EQUIPMENT:

conveyors (belts and rollers)

industrial vehicles, such as pallet trucks, lift trucks, and automated guided vehicles (AGV)

monorails

hoists

cranes.

STORAGE AND RETRIEVAL EQUIPMENT:

unit load storage equipment

unit load retrieval equipment

small load storage and retrieval equipment.



MATERIAL HANDLING SYSTEM COMPONENTS

Automatic identification and communication equipment:

- bar coding
- radio frequency tag
- magnetic stripe
- smart cards
- voice headsets
- machine vision.

SUGGESTIONS FOR MATERIALS HANDLING:

- use identification systems, such as bar coding to handle the right material:
- give a unique part identification number
- give a unique location identification number
- handle similar materials, packaging and size of loads at the same time
- implement improvements in material handling systems which will increase the efficiency of the overall system.

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