AUTOMATION

Material handling is defined as the movement, prediction, storage and control of materials and products throughout the process of manufacture and distribution, consumption and disposal It is one of the activities in larger distribution systems by In the world's commercial infrastructure EXTERNAL LOGISTICS INTERNAL LOGISTICS It is concerned with the to Involves the storage transportation and related activities and movt, of material that occur outside the factory Inside a given facility Material Handling Equipments O TRANSPORT EQUIPMENT - It is used to transfer equipments move materials inside a factory It has 5 main components equipments and that trucks · AGV's · RGV's least quided vehicle) · conveyers · cranes O POSITIONING EQUIPMENT - consists of equipments that are used to handle parts and other materials at a single location. Industrial robots OUNIT WAD FORMATION — It includes containers that hold individual items during handling equipments used to load and package the container may be oboxes; barrels; containers of droms 1 STORAGE EQUIPMENTS - Storage methods include (1) conventional storage methods (2) Automated storage systems Bulk storage, rack systems These are destarted to bins and drawers eliminate labour Labor intensivo O IDENTIFICATION AND CONTROL EQUIPMENT - H Includes keeping track of material being moved and stored. This can be done by assigning bay codes, RMD tags. Automated gulded vehicles - Agv is a material handling system that uses independently system that uses independently operated, self propelled vehicles quided along pore defined paths. Operated by unboard batteries. Their pathways are powered by unboard batteries to unrobustive unrobustive (1) Towing vehicles for driveriess toains governers (2) Pollet Trucks (3) Unit wad car Assess ners

Analysis of material handling systems.

A vanit wative models are used for analyzing material flow conveyers - moving apparatus litems or bulk materials, usually rates , delivery spale times, and other aspects! This TYPES OF CONVEYERS analysis Is well in app aget determining the chain conveyers vonveyers are used when material must be moved in large quantities by specific weather over a tixed bath Vehicle based Roller conveyers estate-wheel conveyers . Belt conveyers du lip ments beguired. · overhead trolley conveyers conveyer Based