

Material Handling Solutions

With the ability to rapidly transport product and track its progress through a facility, conveyors continue to grow in popularity. With the proliferation of SKU's, distribution must efficiently pick and transport more products than ever, and manufacturing is being challenged with reducing handling costs while managing process control and insuring quality. A well engineered conveyor system can help accomplish those goals.

Cranes and Hoists have been used for hundreds of years to lift and move materials too heavy to be efficiently handled manually. They can be designed to swiftly maneuver 100 pound loads or delicately and safely transport 100 ton loads. In some cases overhead handling is used to improve ergonomics in a repetitive work cell environment, or to service/maintain heavy production machinery, or to support a manufactured operation by lifting and transporting heavy pieces.

There is burgeoning interest in the use of carousels for sorting and retrieving product. Depending on the specifications and type selected, carousels can be utilized to pick anything from tiny electronic parts to metal fixtures, and are applicable for finish goods picking in distribution or work in-process for manufacturing. There are three basic types of carousels, each of which can be utilized with simple controls for paper driven picking systems all the way up to automated controls with light prompts.

There is a multitude of storage mediums available, each designed to be utilized with different storage applications. There are a number of considerations in selecting an appropriate storage medium. In the physical domain, the size, weight and packaging of the commodity to be stored must be considered, as well as the overall height of the system and the method by which the product will be loaded/unloaded from the storage medium.

Equally important, however, are non-physical considerations. The velocity of the product is important in that highly active product must be stored such that it is readily accessible and in sufficient volume to meet activity requirements. Unique product must always be accessible since it is the only SKU of its kind in a given facility, whereas multiple loads of the same SKU do not require that all loads be readily accessible.

Lastly, the storage and picking methodology affects the storage mediums. Product stored in a forward pick area will normally use a different storage medium than product used as backup storage. Forward pick areas have high degrees of picking activity, so the storage medium must compliment that. Backup storage tends to be handled in larger unit volumes and therefore have lower and different storage needs.

Broad experience with exceptional process control knowledge of the manufacturing environment ensures we design a system that works and meets your expectations. We provide project scoping, accurate cost estimates, complete equipment specifications, detailed project schedules, skilled project management and comprehensive design documentation. You have a superior material handling system after we complete installation, calibration, startup and training in partnership with your personnel.

General Services

- Computer upgrades
- Control enhancements
- Custom control design
- MIS report design
- PLC Upgrades / Replacements
- Custom communication links