

Lean Manufacturing & Distribution

Lean manufacturing & distribution techniques are used to eliminate waste that occurs in any organization as a normal consequence of doing business. There are seven standard principles of Lean Manufacturing & Distribution. Review your processes to determine where you can use the principles to eliminate these wastes:

1. **Overproduction** – inflexible or unreliable processes that cause organizations to produce goods before they are required.
2. **Wait Time** – due to inefficient layouts or an inability to match demand with output levels workers experience wasted wait time between jobs or when retrieving parts.
3. **Transportation** – transporting goods unnecessarily always increases costs and the risk of damage.
4. **Processing** – using overly complex processes when simpler, more efficient ones would do.
5. **Inventory** – due to uncertainty with regard to quality levels, delivery lead times, etc.
6. **Motion** – unnecessary or excess motion that causes worker fatigue due to poorly designed processes.
7. **Defects** – creating products or services that require rework or must be scrapped.

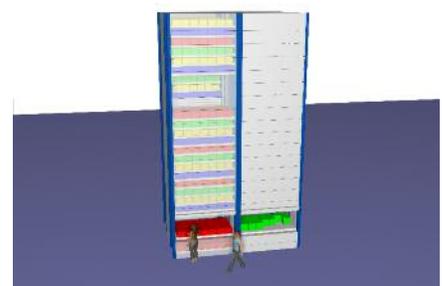
By focusing on implementing these principles it becomes clear that Kardex Remstar has the automated solutions that can make huge strides in reaching new heights and levels in your lean manufacturing & distribution initiatives. How does Kardex Remstar's simple automation apply?



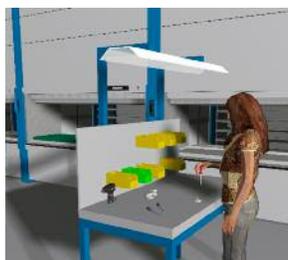
Every Kardex Remstar system is designed to store various sized products and can be easily configured to accommodate physical changes of stored goods quickly. Allowing you to keep only what you need on hand, effectively reducing **overproduction**.



The nature of an automated system is to bring items to the operator, eliminating walk and search time. Batch picking, pick-to-light and inventory management software are just a few keys to eliminating **wait time**.



Items are delivered to the operator at an ergonomic work height eliminating **unnecessary / excess motion** such as walking, searching, reaching and bending.



Storing goods in a point of use automated solution reduces unnecessary **processing and transportation** of goods from work cell to work cell and helps **eliminate defects**.



Multiple levels of integrated "point & click" software helps manage inventory, ensuring you have the right product at the right time at the right place eliminating **unnecessary inventory**.