

Conveyor Worksheet



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This is general guide to assisting you with specifying a conveyor. It is not comprehensive but these two pages provide a good starting point.

Basic Conveyor Design Questions

- 1. Define your product:** Box, engine, cheese block, mixed parts. Take a picture or make a sketch.
 - a. Quantity:** Do you have more than one product type – small box / big box?
 - b. What is the product shape, size?** Take a picture or make a sketch.
 - c. Foot print of product:** What does the part that's on the conveyor measure?
 - d. Weight of product:**
 - e. Any unique characteristics:** Oily, ultra-clean requirement, and so forth.
- 2. Design:** Create a sketch of the application. Put in the flow you want, then insert obstructions, operator or equipment functions, rework or redirect stations, turns, lifts and etc. This is a good way to gain an understanding of the challenges.

- a. **What's the distance you need to move the product?**
- b. **Speed and Cycle time:** How fast – feet per hour, feet per minute, feet per second, or minutes from point A to point B? How many stations? How long at each station?
- c. **What happens at a station?** Describe – flip product, parts assembled, off-loaded to worktable, and etc.
- d. **What is the direction of flow?** Straight, curve, spur lines, radiuses, etc.
- e. **Loading:** Describe how you want to put the product onto the conveyor. Manually (person picking and placing), forklift, hoist, Bal-Trol balancer, manipulator, robot or other automation? How do you want it to interface? How far and how from what – pallet, bin, other conveyor, etc.?
- f. **Unloading:** How do you want to take it off – forklift, hoist (think Atlas Copco air hoist, Bal-Trol Balancer, Demag Electric Hoist & KBK Rail), manipulator, manually (person picking and placing), directly to a palletizer, shrink-wrapper, or packaging equipment? How high and how far?
- g. **Challenges:** What are the major and minor obstacles?

3. Other considerations:

- a. **Product:** Which of these do you plan to use – gravity conveyors, belt conveyors, chain driven conveyors, belt driven roller conveyors, transfers stations, etc.? See www.lewcoconveyor.com for more product and design descriptions.
- b. **Power:** How do you want the conveyor to be powered 24V, 110V, 240V, other?
- c. **Controls, Yes / No.** Describe how you want to control the product. Put down on the sketch where the stops, start buttons, and other movements need to occur.

What is important to you regarding these kinds of products?

Design Assistance – Do you need preliminary layout assistance? Do you have floor plan and product drawings? Contact us at info@technicaltoolproducts.com

Delivery – How important is delivery? We can ship most gravity conveyors in 24 hours and a powered conveyor is quickly available. Even in large roller sizes. What delivery do you need?

Custom Sizes – A Lewco conveyor is assembled based on your design. We can handle light and extremely heavy loads. Challenging applications are part of our specialty. See the question set below and then describe what you're trying to move. Do you have product and/or application photos?

Durability – Both our materials and assembly processes ensure high quality, with exceptional life expectancy. Would you like more information?

Price – Pricing can encompass the conveyor, control options, control panels, installation support. Because we build to order, we can typically provide the lowest cost product that meets your requirements rather than having to buy "off the shelf" that might be cheaper but isn't exactly what you want. Low product cost may not include features you want.