

Home Accessories Manufacturer

Juarez, Mexico

Facility Planning & Analysis Services

- Project Management
- Facility Layout Design/Optimization
- Material Flow Analysis
- Production Planning
- Facility Specifications



The new facility was equipped with state-of-the-art processes. New conveying systems and computerized numerically-controlled machines allowed the client to streamline their production.



Beyond developing processes, we assisted in the development of other departments, such as, warehousing. Process change not only included material flow through the plant and the operations on workpieces, but also the manner that production as an entire system (including production control, purchasing, shipping and storage) was conducted.

A Home Accessories Manufacturer was planning to consolidate and relocate several of their operations into a new manufacturing center in Juarez, Mexico. They understood the importance of having a team focus solely on the manufacturing design issues during the design/build process. The industrial engineering team enabled our client to smoothly transition their production from their inefficient facilities without disturbing the flow of product to their customers. Our team was the main interface between the client and the design/build firm to ensure that the new facility would meet their manufacturing requirements.

In addition to the vast experience by our team to provide solutions, facility simulation was utilized to optimally solve key design issues. The results of these simulation studies were:

1. Work-in-Progress (WIP) was reduced by **70%**
2. Production lead time was reduced from 11 days to 8 hrs (~ **95% reduction**).



The finished product resulted in a facility that greatly delighted the client, plant personnel and the community of Juarez.

Using our knowledge and experience with current production technologies, the production system was converted from a batch flow system into a demand flow (lean manufacturing) system. This change in production philosophy reduced the amount of WIP, increased production throughput and significantly reduced their scrap and rework rate. During a significant transition within a company, updating production philosophies becomes a necessary task and it is easier to instill these new paradigms with the change in surroundings.