

Wireless Component Manufacturer

Elkhart, Indiana

- Facility Planning & Analysis Services**
- Facility Layout Design and Optimization
 - Project Management
 - Owners Representative



Three dimensional architectural rendering of the new manufacturing facility. The facility was designed in a “H-shape” with the two separate manufacturing wings and shared office, conference, laboratory and warehouse support space in the middle.

The Wireless Component Division was interested in building a new state-of-the-art manufacturing facility in Tianjin, China to produce ceramic filters and surface mount crystals for wireless communication devices. The facility was designed in an “H-shape” to keep the clean room production facility and the ‘dirty’ manufacturing processes as far way from each other while maintaining a good production flow.

Our personnel were an integral part of the project from the initial conceptual design phase through the development of the final equipment move in plan. We were responsible for the following project activities:

- Participated in meetings between the client and A&E design firms performing the detailed design of the facility;
- Reviewed plans, drawings, and other documentation submitted by the A&E firms during design;
- Provided evaluations of the A&E firms’ performance;
- Advised the client on technical issues as well as practical considerations, related to the design phase of the project
- Attended monthly project control group meeting which review construction, cost and design detail of the project
- Developed overall facility layout;
- Verified current head count and projected future requirements based on increased production goals;
- Verified department space requirements and “optimized” future layouts;
- Developed new demand flow production lines;



The construction started with a bang with the traditional dragon dance (above) and a fireworks display. A fast track design build construction approach was implemented to meet the clients time critical production schedule. The final layout (below) optimized material and people flow throughout the facility and was not finalized until 75% of the building was complete.



The new state of the art wireless component manufacturing center was completed in October 2001 on time and 3% under budget.

