



Building & Installing a Custom Work Station Crane in a Clean Room Environment

Industry:
Semiconductor Equipment

Product:
Silicon wafer equipment

The Problem:
Low ceiling/Clean room setting

The Solution:
Custom Work Station Crane



Custom Clean Room Solution for High Tech Silicon Wafer Equipment

Gorbel® was asked to supply a 1 ton Work Station Crane to the manufacturer of high tech silicon wafer equipment in a clean room environment to assist in assembly and testing of equipment. The materials can run in to the millions of dollars per pick. **The problems that were faced:**

- Low ceilings - system to fit into a concave cut out section in the ceiling for maximum lift.
- Minimize particles in the clean room from falling on expensive equipment.
- All components have to be fed through an opening in the wall and cleaned off prior to installation.

Mathews Mechanical of Union City, CA. utilized standard Gorbel rails and components (unpainted and powder coated locally) and engineered a custom drive system that drives on inner side wall of the



Gorbel track. All rails were inverted to minimize dust and particles from falling on the equipment below. The post to header/rail attachments were custom engineered to maximize head room. All motions are set to super slow speeds to reduce the risk of damaging materials and equipment.