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Examples of Industries Served

- Centrifuge Manufacturers
- Pellet Mill Manufacturers
- Heavy Machine Manufacturers
- Irrigation Equipment Manufacturers
- Tool and Die Manufacturers
- Food Service Companies
- Medical Equipment Manufacturers
- Medical Researchers

MEMBER OF: CSIA

Case Study

Opportunity:
Controlled Motion Dynamics partnered with a well-known international robotics manufacturer on a project for the customer's newly established research and development facility. The robotics manufacturer needed a sizeable robotics work cell to be designed and installed. The work cell needed to be strong, useful, cost effective, and also safe as protection was needed to keep hazardous sharp metal projectiles from exiting the enclosure while the robotics equipment performed various experimental tasks.

Solution:

- Size and strength
  - Composed of rugged and cost effective 80/20 aluminum extrusion, the dual robotic work cell spans 32 feet with a width of 16 feet.
- Safety
  - Macrolon and Lexan ¼ inch clear polycarbonate panels were used to provide the necessary protection while enabling onlookers to clearly oversee the robot in action inside the work cell.
- Usefulness
  - Large doors were designed to allow robust robotics equipment to be transported in and out of each working cell.
  - In addition to these cargo doors, two operator-sized doors dressed with 80/20 hardware handles and hinges were installed.
  - CMD also installed Scientific Technologies (STI) magnetic switches on each door to quickly deactivate the robot in the case the door was opened.

Controlled Motion Dynamics offers innovative solutions to exceptional opportunities.

Construction on the robot cage begins at the customer's location. CMD specialists worked to make the job meet the customer's specific needs.

A robot was placed inside the cage to test the closure capabilities.

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