



ADVANCED DOOR SYSTEMS

DESIGNERS & INTEGRATORS OF INDUSTRIAL DOORS & DOOR CONTROL SYSTEMS

CUSTOMER SUCCESS STORY

CUSTOMER

MACSTEEL®

INDUSTRY

Steel Production

LOCATION

Jackson, MI

SYSTEM

44' wide Fabric door with custom high-speed controller, long distance activation and non contact safety devices

Eliminate Collisions

MACSTEEL® is an engineered steel bar producer who moves 1,200,000+ tons of steel per year.

When you move as much steel as MACSTEEL®, your 24 hour operation must operate dependably and efficiently. This door operates an average of 100 times per day and accommodates extremely large lift-trucks. While the door itself is a tremendous cost saving improvement over roll up rubber and roll up steel doors, it was frequently damaged by impatient lift-truck drivers.



44' WIDE X 18' HIGH DOOR

ELIMINATE HUMAN ERROR

In order to eliminate the lift-truck drivers hitting the door, human control was taken away. The new long distance sensors detect the incoming and outgoing lift-trucks and automatically open the door in time to minimize collisions. Doors close automatically only when the door opening is free and clear of any traffic. We also upgraded the door system with our high speed controller. Our controller increased the speed of the door from 8-12" per second to 24-30" per second, using the existing motor/gearbox. Closing speed was left at the original speed of 8-12" per second to promote safety. No other upgrades were required to protect the door. The door operates within the manufacturer's original design parameters and therefore maintains all applicable warranties. The sensors monitor both the interior and exterior areas of the door opening up to 500 feet. It does not allow false signals from cross traffic.

Many months have gone by without an single incident and collision repair costs have been completely eliminated.

CHALLENGE

Stop lift drivers from hitting door.

SOLUTION

Advanced Door Systems High Speed Control Panel and additional sensors and photo eyes.

RESULTS

10 months of operation without a collision; increased production; increased safety; maintenance/repair savings resulting in a return on investment within 3 months.



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Automotive Manufacturer: Not Able To Secure 30% Of Arriving Trucks

INDUSTRY

Automotive
Manufacturer

LOCATION

Wixom, MI

SYSTEM

Universal Integrated
Dock Safety System

INADEQUATE & UNRELIABLE

Our automotive customer had physical and control issues with their dock system. First, there were mechanical and electrical failures with the trailer restraints. These restraints also required that trucks/trailers have an ICC or R.I.G. bar. Trucks with lift gates or without an ICC bar could not be secured.



Secondly, there was no integration with other control systems at the dock. They had separate control systems for dock levelers, restraints, truck levelers, dock lights, safety barriers and the dock door. Also, faulty communication and lack of exterior alarms failed to provide communication to know a truck was in the bay or that the truck had been restrained.

Lastly, when something did not work properly, there was no System-Fault warning.

These issues caused loss of productivity, safety issues due to improper securing of trucks, frustration of personnel trying to get the job done and expensive repairs which consumed their maintenance budget.

FAIL-SAFE INTEGRATED SYSTEM

We engineered and implemented our Universal Integrated Dock Safety System (UIDSS) addressing their specific needs. These controls enable them to have a FAIL-SAFE-INTEGRATED system. We also suggested they use a wheel-focused restraint with no motors or hydraulics to maintain.

CHALLENGE

Replace inadequate, unreliable dock system that could not restrain 30% of arriving trucks with a more integrated dock system that would restrain 100% of arriving trucks.

SOLUTION

Installed the Advanced Door Systems Universal Integrated Dock Safety System (UIDSS) that would control all dock functions and accommodate all types of trucks.

RESULTS

Streamlined all dock functions in a controlled sequential operation that has reduced accidents, improved safety and restrains 100% of all trucks arriving at the dock.

Fail-Safe Is A Must & Communication Is The Key

We started by installing a test system on one door in a plant in Michigan. At this door the dock equipment was not functional. We installed a trailer restraint, dock leveler and impact-absorbing dock door. We designed and installed a single UIDSS control system that integrated all of their existing dock equipment with this new equipment.

This UIDSS system was tested for 18 months. Testing included hiring a truck driver to do excessive pull out tests, wear tests and purposely try to pull out against the restraint. All equipment and controls held up without damage.

Due to this success two more UIDSS systems were installed at another location. This second location had a working dock leveler and rolling steel door with independent standard controls, but had a failed trailer restraint. We installed the control system and new restraint. After thirty-six months of use, the only item needing attention was an adjustment of a photo-eye.

Our next install was at a plant that had an indoor docking system with a truck-lift with integral wheel chocks. This UIDSS



controls system has been working perfectly for over 3 years and we have since installed three more complete systems.

UAW, Corporate, Health & Safety, Engineering and Plant Management have all accepted and approved this project.

By using our system as their Standard, they minimized training for dock personnel who may transfer from one plant to another.

This simple forced-sequential operation control provides self-diagnostics. When the UIDSS controller detects any possible fault or danger, the system cannot be used—ensuring maximum safety...AND it tells you what the problem is.

The control system will work at any dock, with any equipment, in any environment.

We are proud that our client is making our Universal Integrated Dock Safety System a nationwide Corporate Standard in their plants.



UIDSS CONTROL PANEL

Where It All
Comes Together
UIDSS
By Advanced Systems



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CUSTOMER SUCCESS STORY

CUSTOMER

Central Distributors of Beer

INDUSTRY

Beer Distribution

LOCATION

Romulus, MI

SYSTEM

High Speed Door System

The Beer Must Stay Cold!

CENTRAL DISTRIBUTORS OF BEER, INC. in Romulus, Michigan knows the high cost of trucks moving in and out of many doors all day long. Summer was particularly tough on the refrigeration equipment running at their maximum capacity. Also, overhead door maintenance was significant. They needed a better solution.



LOWER OPERATING COSTS WHILE KEEPING THE BEER AT PROPER TEMPERATURE

That was the goal behind Ron Wenzel and Corey Kowalski when they came to Advanced Systems for help. In the past, with Michigan summers being hot, hot, hot, this distributor had trucks moving in and out of ten large doors. This system resulted in very high costs to keep the inside cool with those large doors opening all day long.

We installed two HSSP2 High Speed Solid Panel 2" thick insulated doors on opposite ends of the building. Now trucks enter and exit through these two high speed doors resulting in smoother traffic flow. Advanced Systems' high-speed door and sophisticated controls allow

a door to cycle in one quarter of the time it used to take AND...it's all automatic...no pushing of buttons and no leaving doors open.



The beer is kept cool and the operating costs have been cut. Electric bills are down, door maintenance and repair costs are reduced.

It's a winner! Call us and let us help you become a more efficient operation while lowering your operating costs.

CHALLENGE

Replace inadequate doors with doors that would improve efficiency and reduce operating costs.

SOLUTION

Installed a solid panel high speed door and control panel.

RESULTS

Reduced refrigeration costs, reduced maintenance costs and improved traffic flow.