

MILITARY EQUIPMENT STORAGE

- Military Base
- MASH Unit
- Secure Air Field
- Deployment Center
- Surplus Store
- Bio-Chemical Laboratory

PROBLEM

This military base was running out of storage space for its equipment. It was using simple bulk rack and having to leave extra wide aisles to be able maneuver the materials onto the racks. The extra wide aisles only allow for six rows of actual storage racks leaving tons of material out on the open floor.

OBJECTIVE

To figure out how to more effectively use the room via design and customization and not be hampered by the large aisles needed to store the mobility equipment. To design a high density mobile equipment storage system that provides top security, durability, easy visibility, and space efficiency

SOLUTION

Our design commanded the military's attention with a proposal for a customized electrical high density mobile storage system. The beauty of our design is that we were able to take away the large aisles. A high density mobile storage system only needs one aisle. By utilizing an electrical system we eliminated the need to stand there and continually turn the wheel of a mechanical assist system till the large common aisle opened. With an electrical system you swipe the keypad and the aisle opens automatically. The Major of the base was so thrilled with the system and the organizational expertise it effectuated that he is now in the process of automating all his storage areas with mobile storage systems. Our design is a combination of bulk rack and heavy duty L&T shelving with retractable doors to provide unparalleled equipment security in strict conformance to military requirements for equipment storage. We were also able to use the existing bulk rack on our mobile carriages negating some of the cost of the system. Expensive state of the art mobility equipment, deployment packages, night vision



CASE STUDY

equipment and all expensive equipment subject to pilfering are now safe behind locked doors.. High density mobile carriages can support any type of shelving, rack, cabinets or special storage systems.

Our design allowed for different lengths of carriages designed exactly for the type of mobility equipment being stored. The base is now able to track all its mobility equipment and ascertain storage levels instantly. Everything has its allotment of space depending on need. The soldiers are able to get what they need when they need it because of accountability of the supply chain.

In addition to quadrupling their storage space we designed the system with the ability to make a mobile carriage become a stationary carriage. If you lock down one carriage in the middle the other carriages on the left and right will act as separate systems thus allowing multiple persons access to the system at the same time. In a deployment practice run a few months ago we were able to cut our finish time by 15 percent. Talk about impressive. Our commander is ecstatic.

