

MDR BATTERY STORAGE SYSTEM NO: 304

THE APPLICATION: Storage

THE PRODUCT: Zero Pressure Motor Driven Roller Conveyor, Chain Transfers and Chain Driven Live Roller Conveyor Mounted to Scissor Lifts on Transfer Cars

THE INDUSTRY: Battery

THE NEED: An expanding battery manufacturer needed an automated cell to assemble batteries. After assembly, the batteries needed to be gently placed into a storage area for their cure time. The battery was then brought out of storage in proper sequence and placed back into the assembly line. The system design needed to be reliable, compact and able to convey 350 lb batteries.

THE SOLUTION: Omni Metalcraft Corp. worked with an integrator to design a dual tier, four lane wide, compact, yet heavy duty Motor Driven Roller Conveyor system. Batteries were assembled and placed on a pallet by a robot. The pallet was then positioned utilizing a crowder. The pallet was then transferred to a conveyor mounted to a scissor lift on a transfer car that moved the battery to the correct storage level and lane for the curing process. As batteries were added, they were accumulated on ZP MDR and conveyed to the last zone for pick up. The entire system was built in modular sections and wired for easy set-up and assembly. Device Net modules were used to give the plant full system visibility.

■ Corrosion resistant rollers

■ Zero pressure accumulation

■ CDLR mounted to scissor lift on transfer car

■ High tension urethane drive bands

■ Welded frames

■ Crowders on corners for robot

