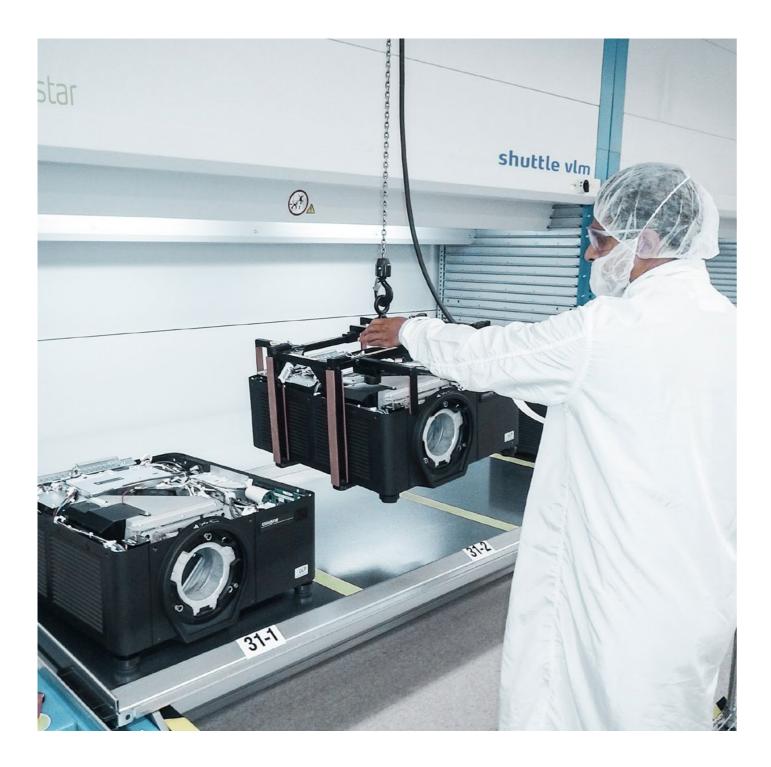
Case Study

Automated Ergonomic Handling





Case at a glance

How we took our customer from task to solution

With over nine decades of experience, Christie has a reputation of delivering superior visual display solutions and providing unprecedented levels of service and support. The certified ISO 9001:2000 and 14001 manufacturing center in Kitchener, Ontario, Canada houses top of the line technology including two Vertical Lift Module Kardex Shuttle each equipped with automatic tray extraction and crane handling.

Automated ergonomic handling

Customer and task

With orders increasing, Christie needed to double the number of sub-assembled projectors they kept on hand. Previously, Christie maintained an inventory of 100 sub-assembled projectors, each stored on a cart. "To double inventory, we would have had to double the cart area, buy more carts and hire more people," said Philip Hibberd, Sr. Manufacturing Engineer.

While increasing capacity and improving worker ergonomics were the main project focus, Christie also sought to give their customers the best of both worlds: custom built projectors with 24-hour order turnaround time

Solution

Christie installed 2 Kardex Shuttle, each equipped with automatic tray extraction and crane handling. Each Kardex Shuttle stores 100 sub-assembled projectors, which doubled Christie's capacity overnight. Both have expansion capacity, allowing inventory to increase based on sales.

Including the aisle, each Kardex Shuttle occupies 180 square feet, compared to the 600 square feet occupied previously – a 70% floor space savings. "The recovered space has been used to expand the subassembly process from 6 assembly stations to 9", said Hibberd.

Each projector weighs around 52 pounds. "The projectors are heavy and lifting them puts the employee at risk of injury and the projector at risk of damage", says Hibberd. Each Kardex Shuttle has automatic tray extraction, so all sub-assembled projectors are accessed with an ergonomic hoist; no lifting, pushing or pulling is required.

Saved 70% floor space Improved worker ergonomics Increased throughput by 90%



Scope of delivery



2 Kardex Shuttle



Automatic tray extraction



Integrated crane handling



Kardex Power Pick System inventory management software