



Fully Automatic Lens Distribution

Application

Section 1 - Infeed To The Automatic Stores.



Infeed conveyors are installed at high level to allow good access

The infeed system starts with a conveyor upon which the operator places boxed lens. The lens boxes are placed with their barcode facing up. At the end of the conveyor, the barcodes are scanned by a barcode scanner that communicates with the RAX control system at which point the lenses are automatically transferred to an inclined conveyor leading to the stores.

At the top of the inclined conveyor the barcodes are scanned again and each box is allocated a destination of either Automatic Stores number 1, 2, 3, 4 or 5. Boxes heading for the automatic stores are transported on further conveyors and are guided towards their destination using diverters. At the stores entrance boxes are queued against a gate. The gate releases one box at a time which is then transferred to a lift which lowers the box where it is finally pushed into position at the RAX infeed gate. Each box is then stored in its allocated position in the fully automatic stores.

Our **MONEX40** aluminium frame building extrusion is used to construct a robust support frame.



Operator load position

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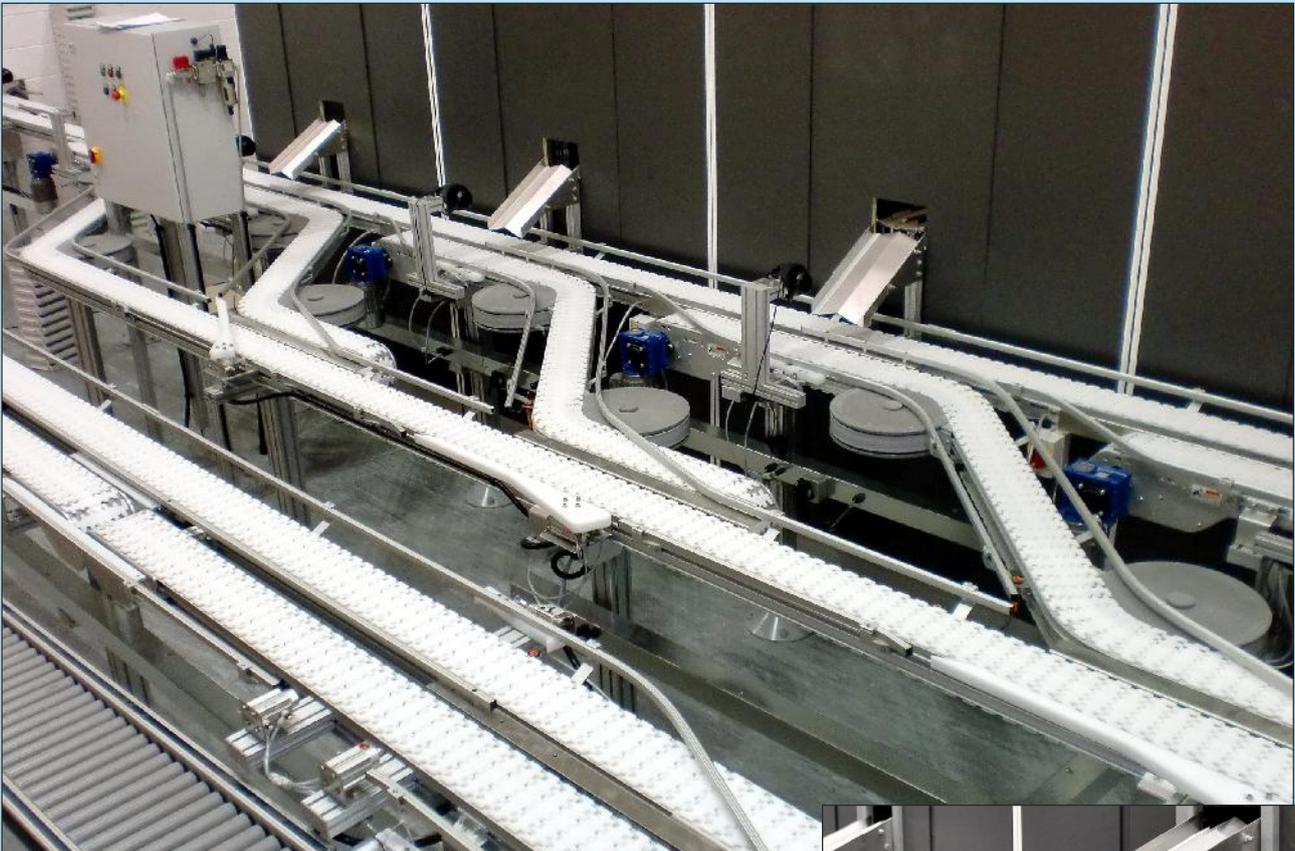
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Fully Automatic Lens Distribution System

Application

Section 2 - Outfeed From The Automatic Stores.



The outfeed conveyors serving 4 stores

Once an order for lenses has been received it is entered into the companies computer system. The order details are then printed in text and barcode form on a ticket in the stores and the printed order placed into a slot in an empty tray by an operator. Each tray is then placed onto the queuing conveyor which takes one tray at a time complete with a printed order to a sorting point. At the sorting point the barcode is read by a scanner which interfaces with the RAX stores control system which determines the destination of each tray.



Stores Discharge Chute

Destinations are Automatic Stores number 1, 2, 3, 4 or 5. Trays are delivered to the correct store output chute via a series of diverters. Trays are allowed to queue prior to arriving at the stores discharge chute. The correct lenses are then delivered to the tray. Trays are then automatically conveyed to the dispatch department.

This system has drastically reduced the time from receiving an order to dispatch to the opticians, reduced costs, reduced labour, and improved efficiency.

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