



#### Client and Application:

Founded in 1976, Riverside Opticalab LTD is a world leading manufacturer and supplier of optical solutions. Recognized eyewear innovator and industry pioneer of High Definition eyewear technology (Persona®), Riverside Opticalab LTD has positioned itself as a groundbreaking entity that has brought high-end solutions to their much valued customers.

Their products are offered in multiple forms; from stock to custom configurations and packages that meet their customers' diverse and unique needs.

Designers and manufacturer of Persona® High Definition lenses, Riverside Opticalab LTD brings a new breed of progressive High Definition lenses. Unlike most conventional progressive lenses, this innovative technology enlarges the effective area to obtain optimal visual acuity.

In the finishing area, MEI Edgers are used to edge, drill and groove lenses, which create plastic shards, chips and dust.

Therefore, they required a dust collection system to handle up to five machines. The system needed to match the following design criteria:

- Constant transport velocity and airflow in the ductwork at any time and under different conditions
- Special ductwork that can be easily removed, cleaned out, then replaced without tools
- Two steps of filtration; a pre-separator for big/heavy particles and high a efficiency filter for light dust

#### Solution:

The application is completely enclosed and dust is captured at source by using a 4"Ø suction port on each machine. Once the dust is captured, it is transported through Quick-Fit ductwork with high velocity (4500 FPM). The main header is connected to a 1,600 CFM 20-3 Cyclone (pre-separator) and a UMA 250 bag housing collector.

#### Equipment:

One (1) UMA 250 baghousing dust collector with shaker filter cleaning system and 10HP TEFC integrated fan

One (1) Cyclone 20-3 with cabinet and bin on the hopper

One (1) complete control panel with VFD and pressure transducer

One (1) Quick-Fit Ductwork

#### Installation video and pictures:

Please click on the first picture below to play:



#### Industry:

Optical Laboratory

#### Contact:

For an update on the performance of the system, contact information is available upon request.