

## CASE STUDY



### ⇒ Client Application

Our client LAMINEX required the redesign manufacture and installation of a unique piece of equipment to invert particles boards 7m x 2.4m wide weighing up to 490kg each. The project also required a 3 way sortation conveyor. The new system had to integrate with some of the existing conveyors system and replace other parts. The existing inversion system was chain driven, noisy and had a high maintenance load.

### ⇒ Solution

By incorporating a gear and pinon design on the rotator we were able to eliminate the machine noise and increase the rotation speed. This also eliminated the ongoing maintenance issues. By making the arms removable this allowed for fast change overs in case of system crash. Similarly, with the sortation conveyor we eliminated all chains using gearboxes and drive shafts and with implementation of the new drive system board placement was accurate allowing removal of physical stops.

### ⇒ Project Delivery

The new equipment needed to integrate with the existing conveyors with tight tolerances. To ensure that the new design meshed seamlessly with the existing system VEQTOR used 3D laser scanning to allow direct dimension checking and merging of new CAD models into real time Point cloud of the existing system. By implementing this technology into our workflow is assisted in delivering high quality project that exceeded client expectations.