

# TimberLab CNC Processing Hub



## FACT SHEET

### Overview

TimberLab, as New Zealand's most experienced manufacturer of structural Laminated Timber with over 60 years' experience, remains at the forefront of technological production capacity and capability.

With our two **5-axis CNC processing centres**, we are able to deliver the full structural package of engineered wood products including Glulam, LVL and CLT.

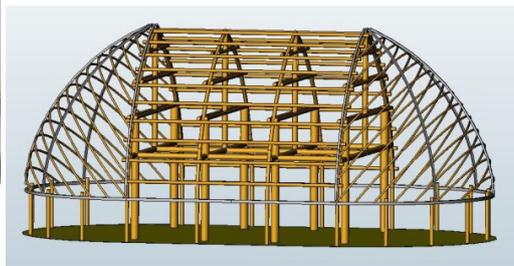
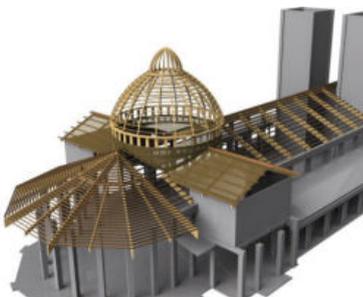


The fully automated Hundegger Speed-Cut SC-3 (purchased in 2018) greatly increases our capacity in processing smaller section linear product, allowing us to focus our Weinmann WMP240 on the more complex or larger-section projects. TimberLab is the only NZ Glulam fabricator at this time to operate 5-axis CNC technology.

### TimberLab Continues to Invest in CNC Technology

Designers now have the opportunity to develop distinctive timber structures; incorporating timber profiles, connections, details and designs that have not previously been available in New Zealand.

In conjunction with the CNC capability, TimberLab has developed a skillful 3D computer modelling service. This enables us to produce accurate detailed models that incorporate every component and connection within very fine tolerances. In this way we have been able to identify and resolve clashes and inconsistencies that would not have otherwise been noticed until on-site construction phase.



# TimberLab CNC 5-Axis Processing Hub

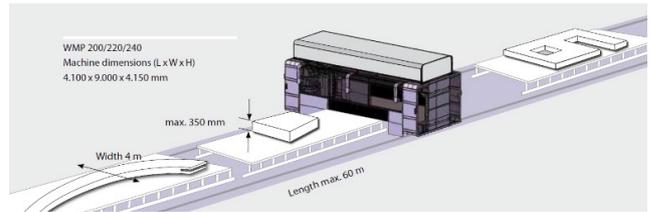


## Speed-Cut SC3

The machining head is fixed in the longitudinal position and the timber member is pulled through the miller. Drilling, milling and slotting - **the SC3 rapidly processes beams and columns.**



The SC-3 processes solid timber elements 200 mm x 450 mm x up to 8 m.



## WMP240

The timber member is positioned and aligned in the working area, then the WMP240 processing centre moves across the timber for machining - **Best suited for complex geometry and panelised systems.**



The WMP240 processes solid timber elements 35 m long - 4 m wide and 450 mm thick.

## TimberLab Brings you These Advantages

**Lead Time** - TimberLab's new CNC processing centre will increase capability and double machining capacity which will significantly reduce lead times for bespoke product. State-of-the-art CNC technology will also improve efficiency to ensure the most cost-effective solution is delivered.

**Accuracy** - With computer controlled (CNC) processing, precise dimensional accuracy is guaranteed with each element fabricated to the same tolerances and accuracy to 1 mm; giving reliable quality solutions.

**One-Stop-Shop** - Providing options for a range of structural products (Glulam, LVL & CLT) means the structural system can be optimised and still delivered under a single procurement package. Having one fabricator responsible for modelling and CNC processing all products ensures each element is fabricated to the same tolerances and to the same accuracy.

**Prefabrication** - Accurately detailed components enable efficient prefabrication, saving costly on-site construction time.

**Quality** - With our skilled 3D computer modelling service & in conjunction with our CNC capabilities, we produce precise, detailed models that incorporate every component and connection within very fine tolerances. This enables us to identify and resolve clashes and inconsistencies that would not have otherwise been noticed until the construction phase.

**Connections** - Complex connection detailing can be produced to demanding tolerances.

**Innovation** - Flexibility of form means innovative designs can be achieved that were not previously possible.

**Shaping** - With 5-axis processing capable of forming complex surfaces, 3D shapes can be produced effortlessly in timber.