



Improving the Packaging of Crosslaminated Timber: A Master Thesis That Examines the Environment and Methods at Martinsons Såg, Bygdsiljum

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Summary:

The work was performed at Martinsons Såg in Bygdsiljum, Sweden. Martinsons is Sweden's largest producer of cross-laminated timber, crosslam. The staff is divided into two shifts with nine workers each. The production consists of three sections, gluing, CNC and shipping. The factory was expanded in early 2017 but did not achieve planned output. The last section, the shipping, is a bottleneck. The object of this thesis is to find a layout that solves the bottleneck and improve the working conditions in the shipping, and the pace of the system should be determined by the first process, the pressing.

The results from the examination of the system showed that the real bottleneck in the system was the crane. It was slow and is also used in the waste flows. Two packaging stations for the litteras cannot be used because of the flow of the sawdust, lowering the capacity and flexibility in the packaging. Summarised, the crane could not deal with the demands from the rest of the system. The ergonomic problems consisted of bent and twisted backs while the workers pack the littera. This thesis proposes an investment plan to solve these problems. It consists of two investments that expand the building and expand conveyors, thus removing much of the lifting much lifting with the crane. The waste and littera flows are separated to allow the crane to focus on the main flow of littera

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