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Mapping of process capabilities in the secondary wood processing

Process capability indices for wood processing were determined for different up-to-date profiling and tenoning-mortising machines in view of establishing applicable tolerances in the secondary wood processing. It was established that in typical manufacturing processes there exist reserves of efficiency which can be exploited through process improvements resulting in higher precision of work pieces. These improvements also allow increased output rates. It has been proved that statistical quality control is a useful tool in wood machining for the enhancement of overall efficiency.

Key words: wood, machining, process capability, tolerances