WOODCUTTING SIMULATION

Problem Description

• Wood is gaining more and more traction within the construction business.

• Hilti is developing a multitude of tools, including sawblades, relevant for the timber industry.

• In order to support the development of such applications, the ability to simulate woodcutting will become increasingly important.

Objectives & Tasks

• Investigate the current state-of-the-art of woodcutting simulation for Hilti relevant applications.
  • Literature review on woodcutting simulation and relevant, similar processes.
  • Investigate possibilities for external cooperation partners.

• Investigate the possibilities and limitations for implementation in commercially available finite element code.

• Implement a simple, dynamic FE analysis simulating a woodcutting process in LS-Dyna.

Source: Project “HARDIS”