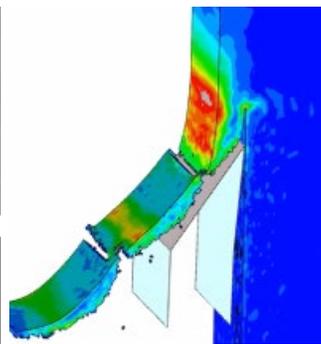
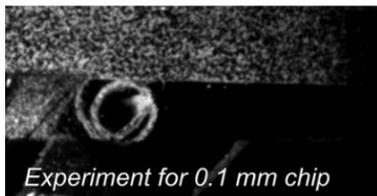
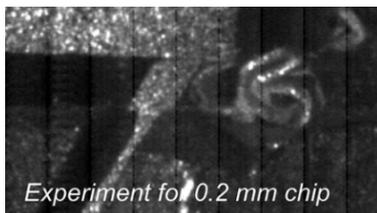


WOODCUTTING SIMULATION



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.



Source: Project "HARDIS"

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.