

INDUSTRY CASE

International

Elite Summer School



in Robotics & Entrepreneurship





#10_LINAK_A Gripper design

Context

LINAK manually moves single spindles from wooden crates or other bins into a fixture on a pallet, which is then transferred to our automated production lines. This process is considered inefficient, repetitive and unergonomic for the operator.



Challenge

The challenge is to design a gripper that can pick up the spindles while ensuring that only one spindle is picked up at a time and that the gripper assists in aligning the spindle. Ideally, the gripper design should be capable of both picking up the spindles from a box and placing them into the fixture shown on the picture above.

To save effort and materials, the challenge is to be solved in simulation.

Tools, methods and materials

- Metal rods in the right dimension
- Dimensions of the crate/box the parts arrive in

Ideal outcome for the company

A concept for a gripper design, complete with CAD data, that can ideally be used to grip the spindle from the box and place it in the fixture.





To this day, our motto; 'We Improve Your Life' is reflected in everything we do. Whether we engage in product development, operation, or implementation of technology, we always look for ways to make it easier for our customers to engage in collaborations and partnerships with us, and to ultimately improve the lives and working conditions of end users.

Our solutions move people – their work and their lives. We Improve Your Life!