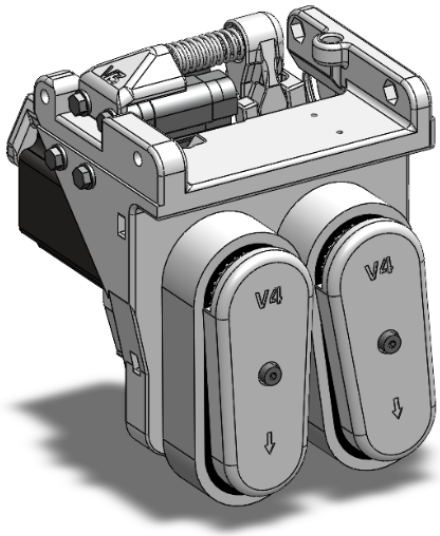
PROJECT - Mechanical engineering

TEXTILE TOOL COST OPTIMIZATION

We have developed a tool for gripping and releasing cloth, it works well, however the cost price is higher than we would like, given how many of them we produce.

Redesign the tool assembly with a focus on reducing the number of parts, and the 3D printing time. Using finite element analysis and topology optimization the 3D print should be made more lightweight and faster to print.
The tool also has a sensor for seeing if a piece of cloth has been gripped, but due to its placement it is not very reliable. Ideally the sensor should be moved to increase the accuracy.



THE PROJECT

Redesign the tool with a focus on cost optimization both in assembly and manufacturing phases.

Rethink the sensor placement and/or type on the tool to increase the accuracy of the sensor.

YOUR PROFILE

ID- Robot - Mechanics - Other
Interest in mechanical design

INWATEC LAUNDRYNERDS

Inwatec ApS develops and produces machines and robots for industrial laundries worldwide. We are a fast-moving company in rapid development and our team is creative and dynamic, with very dedicated employees. We love our informal work environment, where every idea is taken seriously and everybody is treated equally. On Fridays, we meet at our bar for an after-work beer, a barbecue or some ping-pong.

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