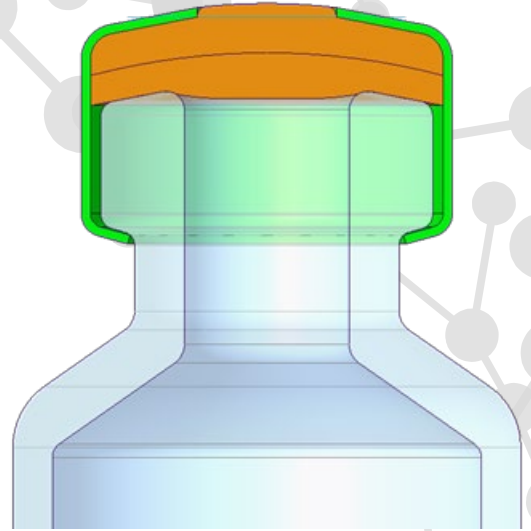
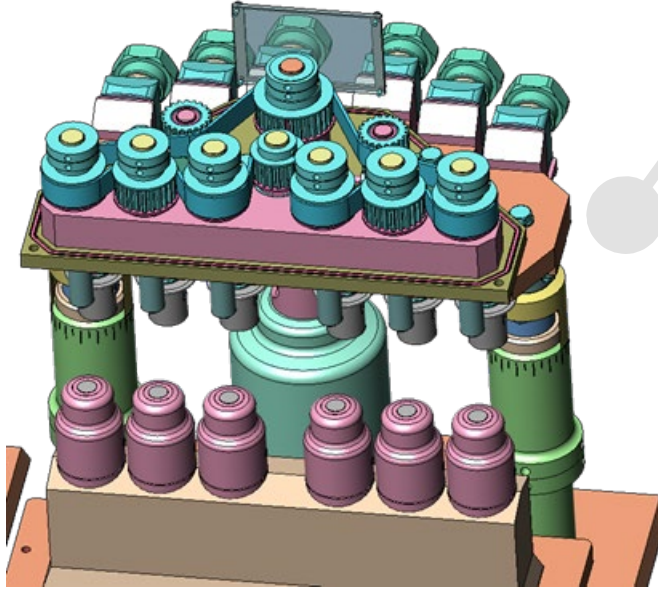


Robust cartridge crimping

High volume aseptic production



Our Challenge – Producing and filling of drugs in to cartridges is at the core of the Novo Nordisk business. A part of the filling process is crimping (closing) the aluminium cap to the cartridge. Our existing closing station is very sensitive to variations and requires fine adjustment by an operator, which is costly and could potentially contaminate the drug being produced. If not adjusted, the cartridges are not sealed correctly or might break.

What if – we could make a new design, that is insensitive to variation? How could one come up with a new concept that would produce consistently high quality crimped cartridges without the need for adjustments?

Areas of interest

- Finding weaknesses in current design (e.g. through robustness evaluation)
- Generation and testing new concepts
- Reducing complexity

How can Novo Nordisk help?

- ✓ We have great facilities to build you ideas – either in-house or through our suppliers
- ✓ When your concept is ready for proof of concept, you can test it out on our full scale production filling line.
- ✓ Sparring and feedback on concepts with other engineers and aseptic production experts
- ✓ We can provide desk space and access to our workshop and 3D printers