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Medico cases with 3D printing as development tool

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Adding Value Since 1906

We help our customers converting the newest knowledge and technology into value





Mads Østergaard

- B.Sc. in Mechanical Engineering and a HD in organization and management
- Works daily with project management, construction and operation within Industrial 3D print
- Has built up my skills through employment in market-leading companies in the Danish industry.



HEGENBERGER SPECULUM



Before (If possible)

- Stainless steel
- Developed in 1845 (by a man)
- Reduced comfort for staff and patient



Now

- Nylon (PA 2200)
- Developed in 2018 (by a midwife)
- Much better comfort for both staff and patient



HEGENBERGER SPECULUM



Innobooster funded project collaboration



2 months of development with 3D printing



35 different versions manufactured and tested



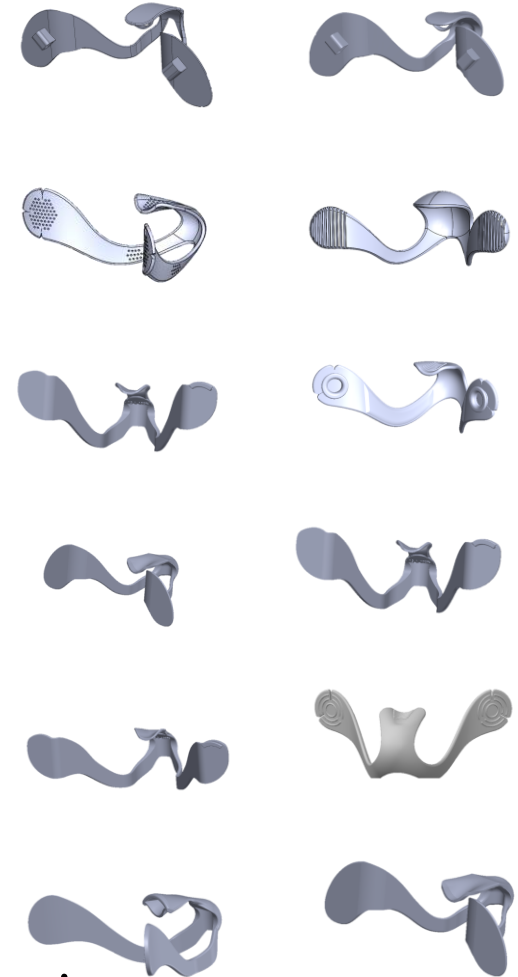
Technology: SLS with PA12 (Nylon) powder



Parts can withstand autoclave



Manufactured using injection molding due to medico regulations





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 NRT





Commercial development and production



10 different parts designed for 3D printing



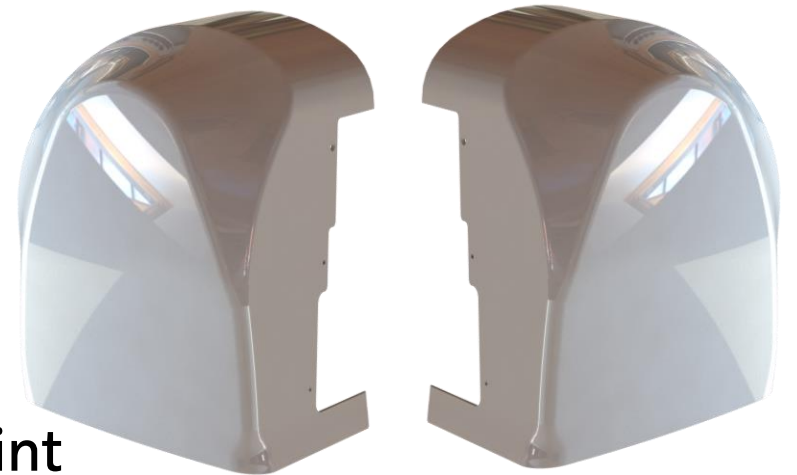
Subjects are subsequently painted with wet paint



Technology: SLS with PA12 (Nylon) powder



Delivery time: 3 weeks for complete set (printed, painted and QC)





Risk minimization in the construction of a new tablet factory.



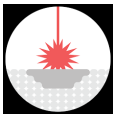
Commercial production



100 different parts 3d-printed to test cleanability



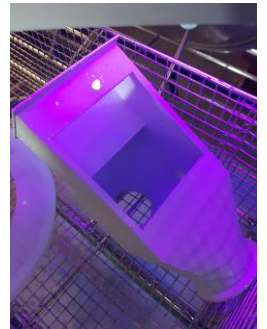
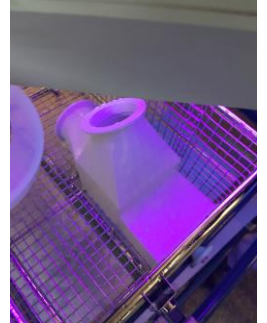
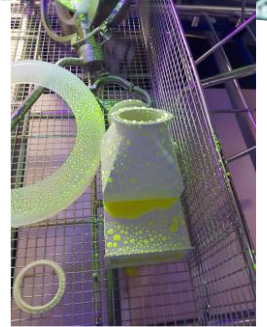
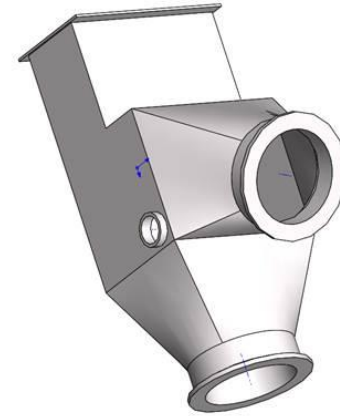
Parts powdercoated to withstand Riboflavin and washing

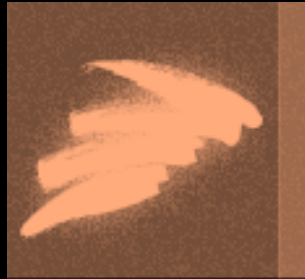


Technology: SLS with PA12 (Nylon) powder



Delivery time: 3 weeks for complete set (printed, painted and QC), saved 20 weeks in the whole building





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Questions

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