



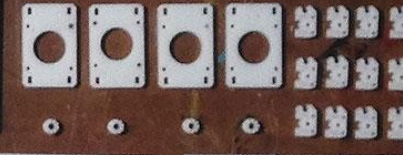
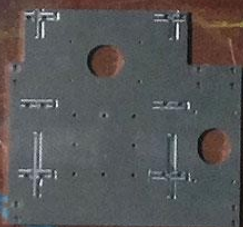
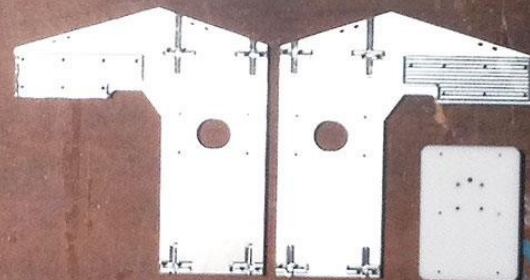
fabricatable
machines

Fabricatable machines

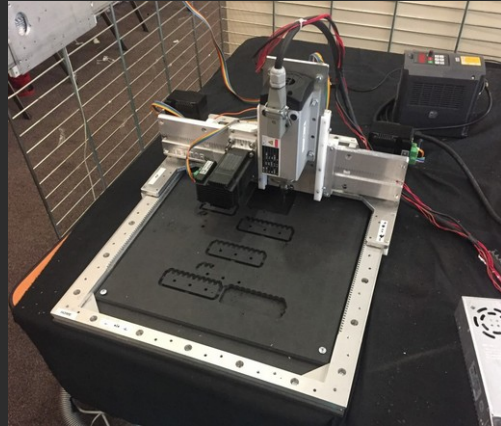
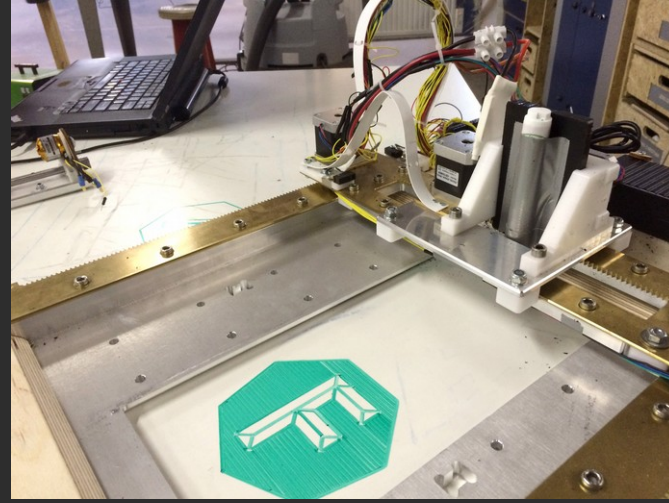
- Open informal research project – anyone can use and contribute
- Lives on github.com/Fabricatable-Machines

Goals

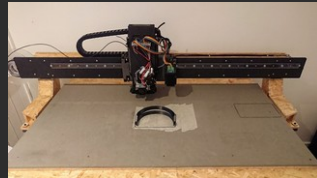
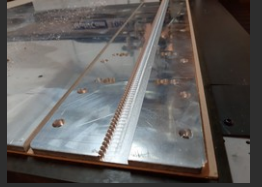
- Enable people to make and play around with custom digital fabrication machines
- Focus on making as many parts of a machine as possible



Favourite machines so far



Humphrey1 versions



Whats is "Fabricatable"?

- Accesable techniques
- Simple and accesable BOM
- Focus on DIY over sourcing parts
- Complexity in CAD, simplicity in manufacturing and assembling
- Open source (files and toolchain)

Fabricatable business

- Gentleman agreements with royalties
- Direct sales
- <https://www.patreon.com/jensdyvik>

Lessons learned

- DIY rails is mostly suitable for small light duty machines
- Segmented rails are tricky
- "CNC friendly rack and pinion" works well
- Gearing is still needed for stiff machines
- HPL sheets work well
- Electronics and wiring is a hurdle
- Alu extrusions + FDM is more accesible than large format machining

Research paper



- <https://github.com/fellesverkstedet/fabricatable-machines/raw/master/publications/Fabricatable%20Machines%20-%20A%20Toolkit%20for%20Building%20DigitalFabrication%20Machines%20-%20TEI202.pdf>

Modules-Axes-Machines

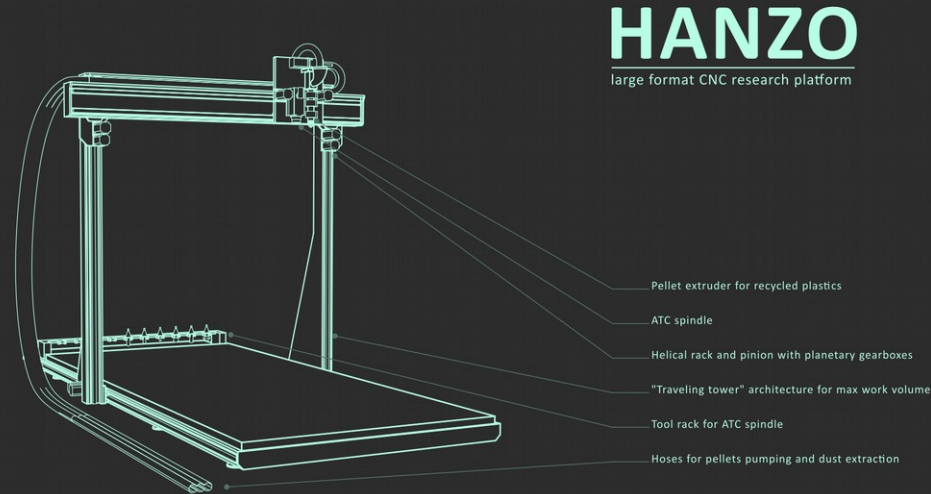
- <https://github.com/fellesverkstedet/fabricatable-machines/wiki/Modules>

Humphrey2

- <https://github.com/Fabricatable-Machines/Humphrey2>

Hanzo

- <https://github.com/Fabricatable-Machines/Hanzo>



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