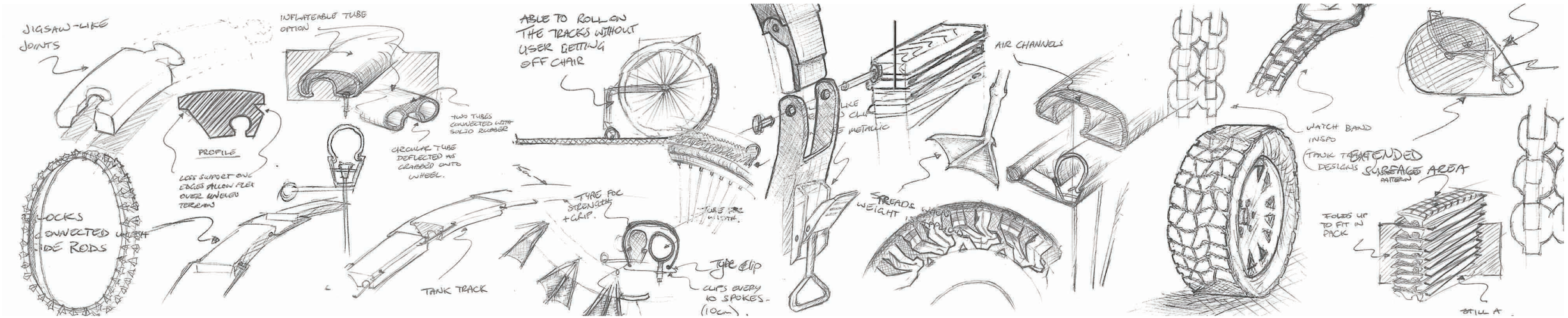
GECKO TRAXX

Design + Development Overview

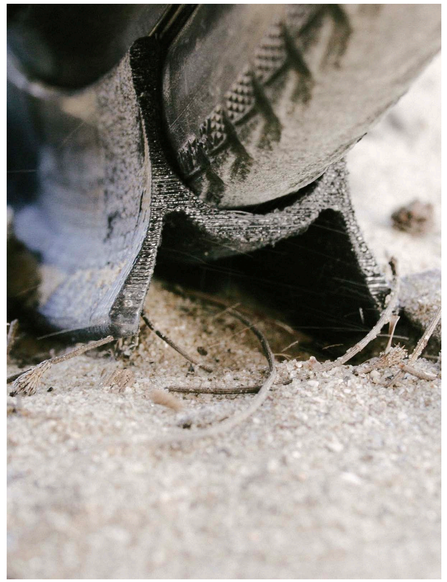
EARLY CONCEPT SKETCHES



PROTOTYPING

Prototype No. 1

Prototype No. 1



Prototype No. 3

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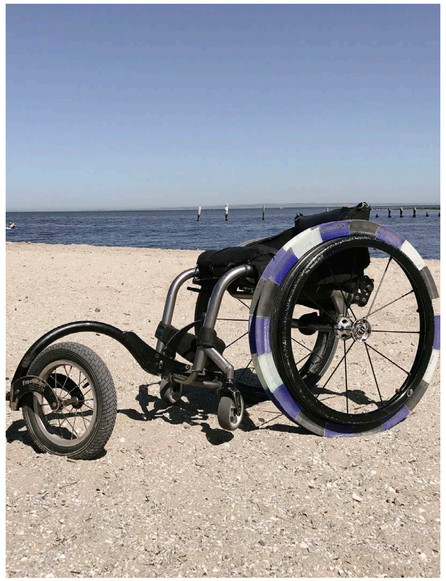
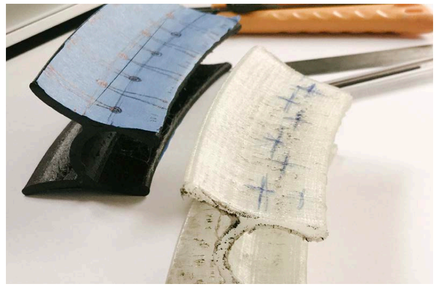
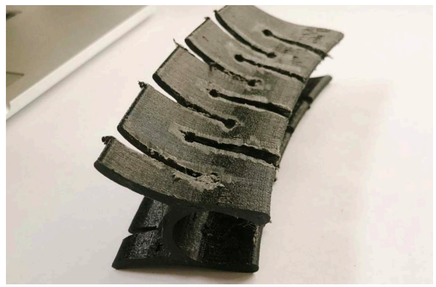


Prototype No. 4

Prototype No. 5

PROTOTYPING



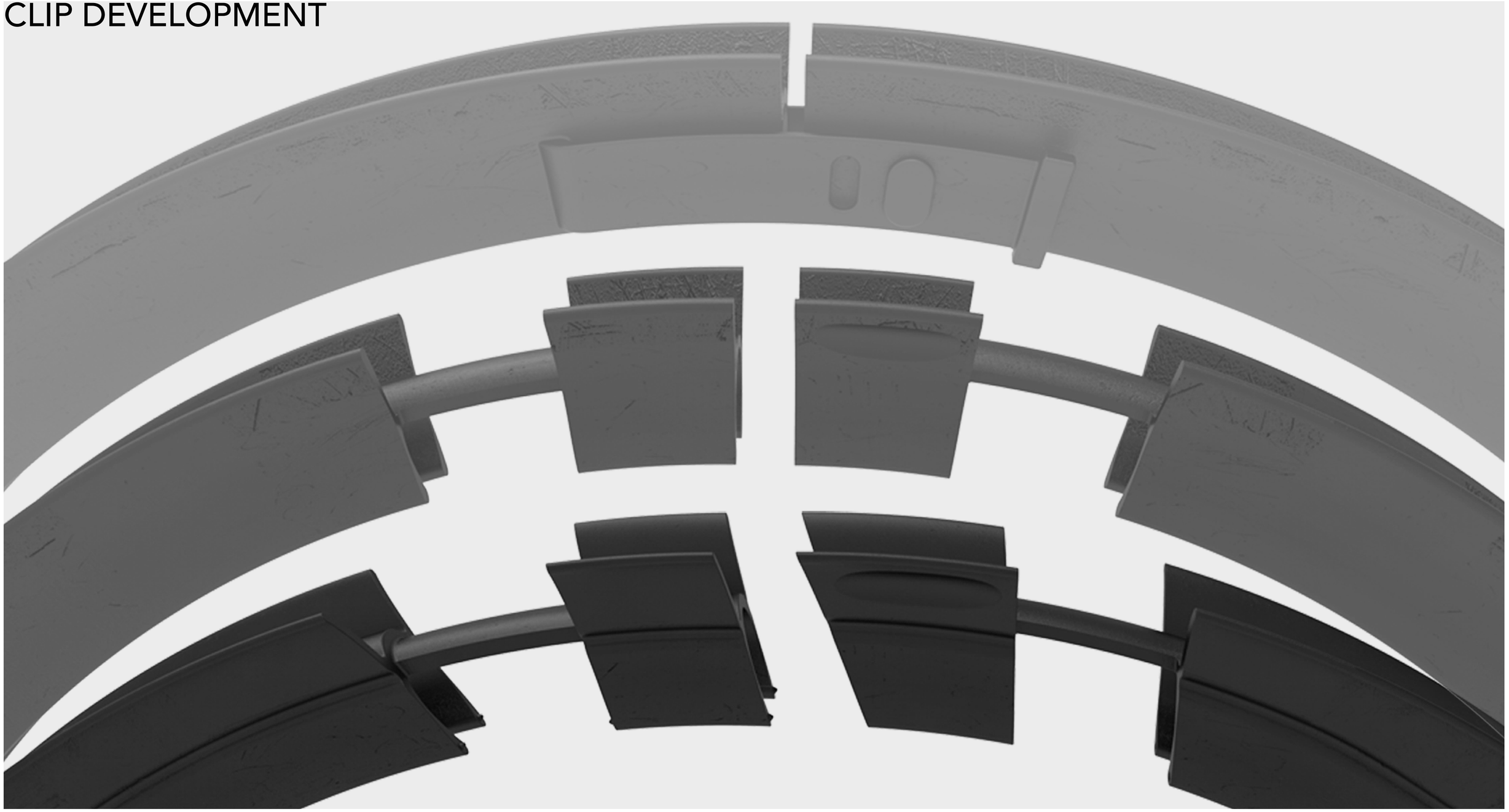


Prototype No. 6

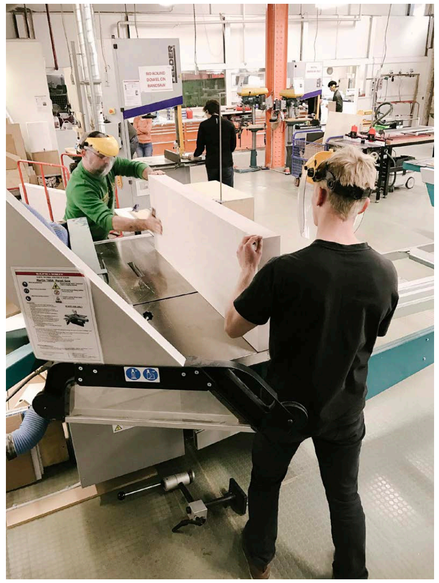
Prototype No. 7

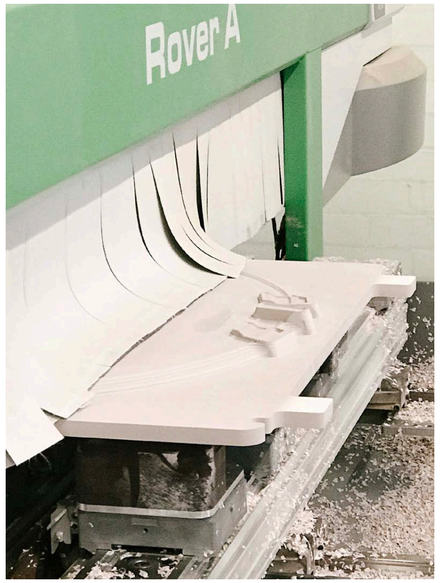
CROSS-SECTION DEVELOPMENT

CLIP DEVELOPMENT



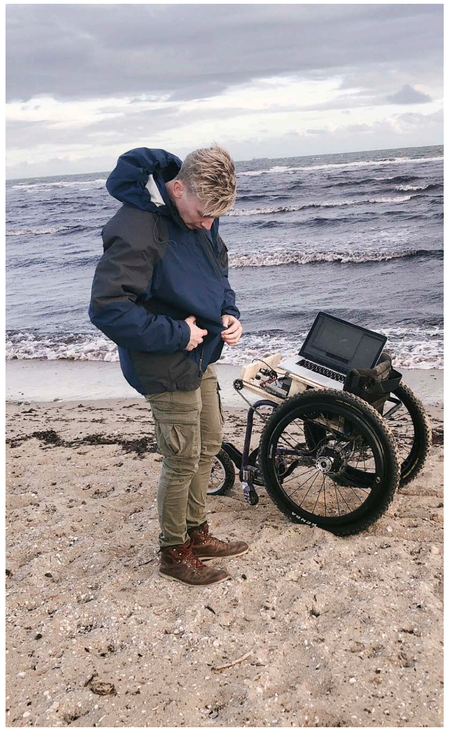
MOULD DEVELOPMENT



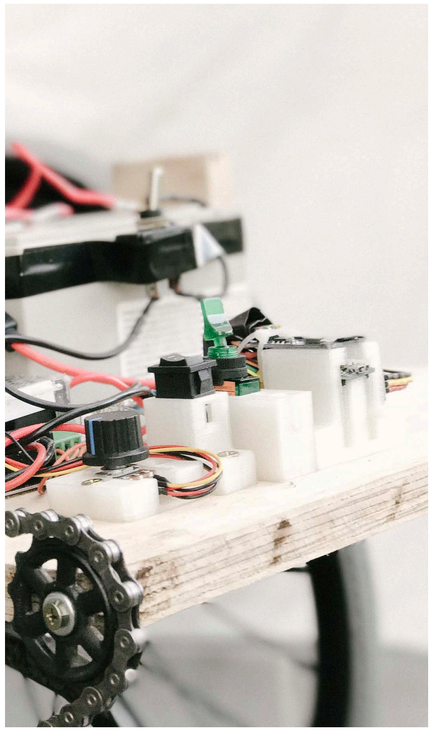


MOULD DEVELOPMENT

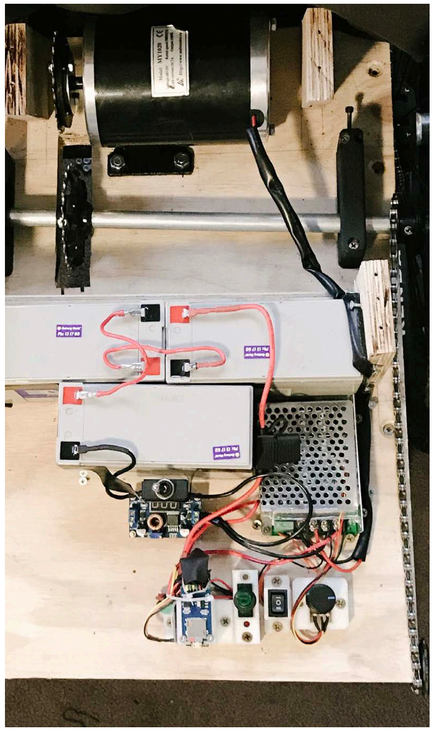
QUANTITATIVE TESTING

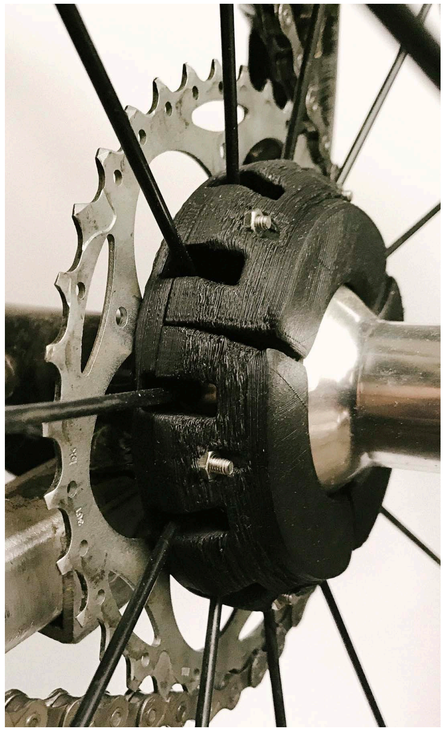


Test Rig



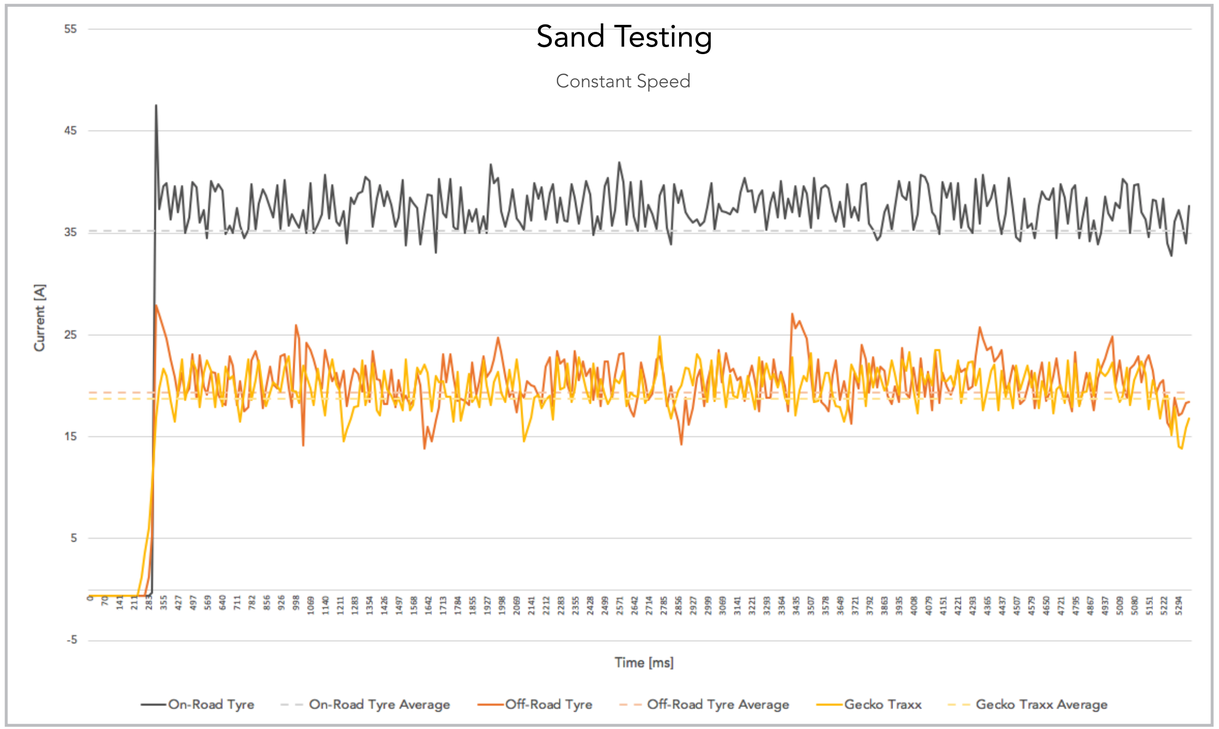
Test Rig Electronics

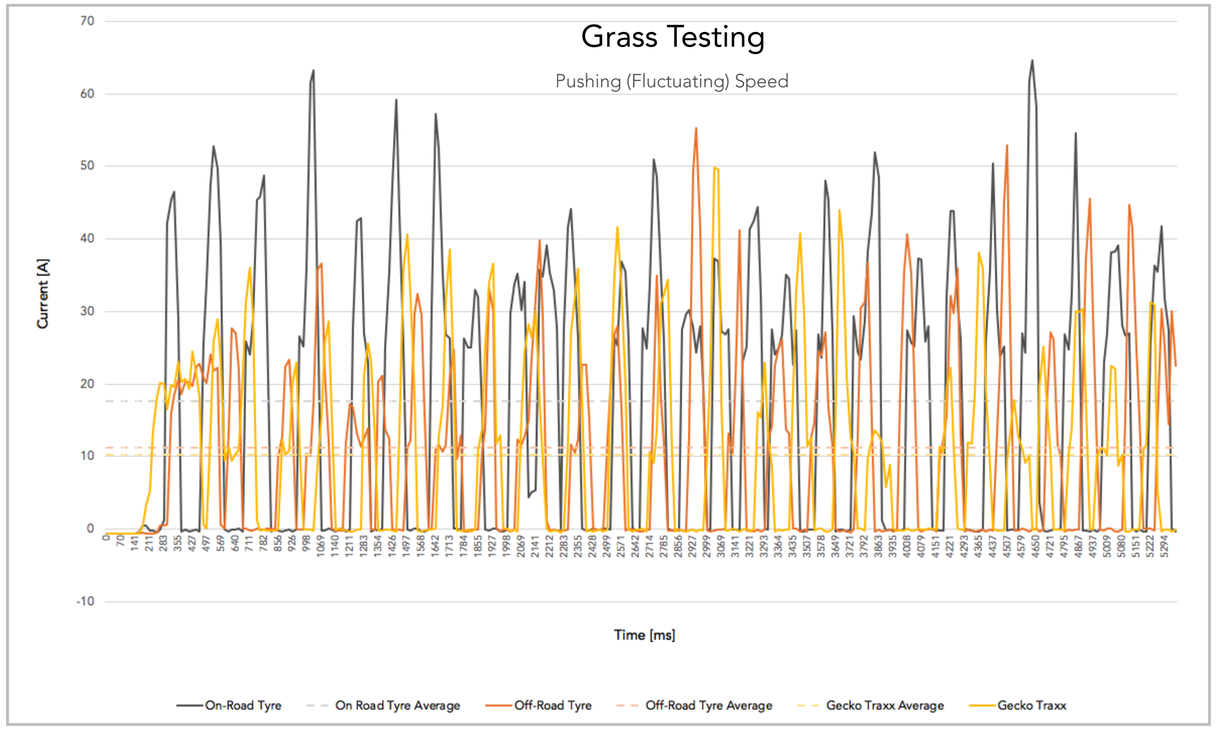




Test Rig Custom Drive

QUANTITATIVE TESTING





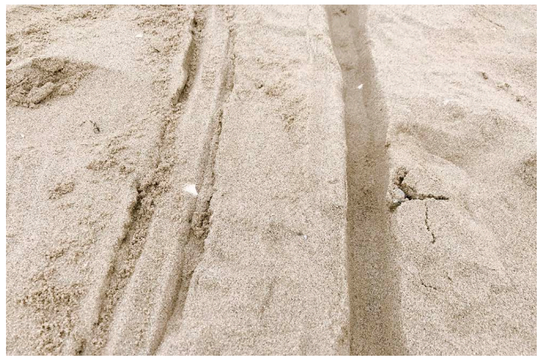
Test Rig Output Data

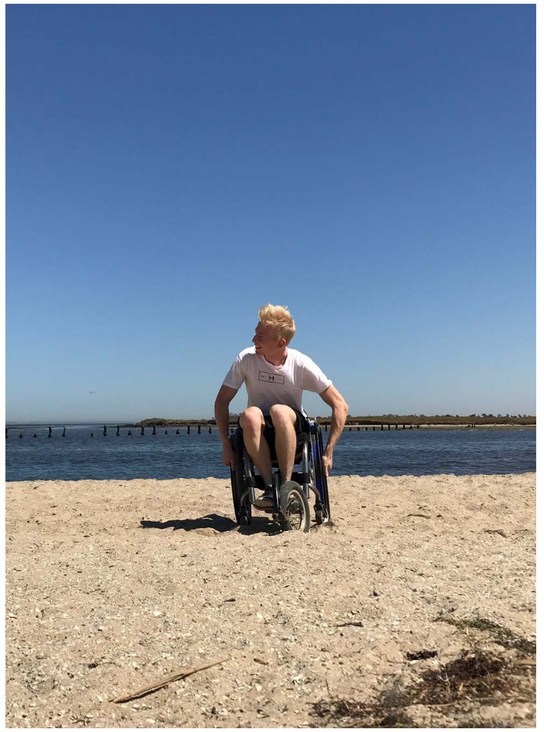
The test rig logged the motor current draw (amps) against time over a variety of terrains with different tyres. Each environment was measured in two types of power conditions, constant power and fluctuating power (to represent pushing the push rims). By taking the average of each power condition, one can draw clear conclusions.

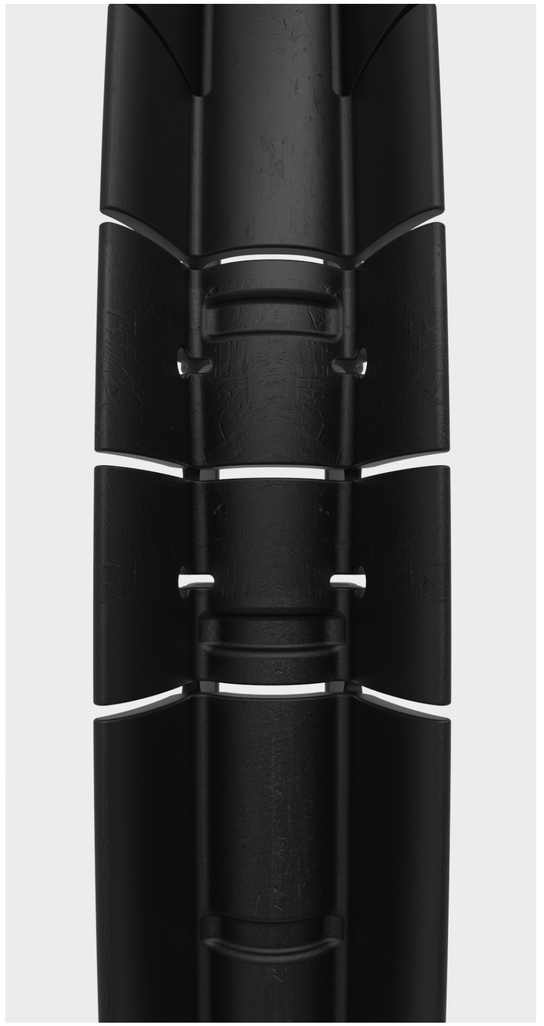
- The Gecko Traxx tyre is around 50% more efficient in comparison to an on-road tyre across sand and other soft terrains.
- Gecko Traxx tyre is slightly more efficent that a standard off-road tyre on soft terrain, and is significantly more portable.

QUALITATIVE / USER TESTING

QUALITATIVE / USER TESTING





RUBBER FACTORY VISITS

FINAL PRODUCT RENDERS