

Elan Human
Power Team

Pictures & Impressions

Push it to the limit – anything is possible

Team

Elan Human Power Team



Team Battle Mountain 2018

Ellen van Vugt – Driver
Hans van Vugt – Team Director
Matthias König (PhD) – Driver
Ralf Golanowsky - Organisation

Edwin Poorte (PhD) –
Aerodynamics and Innovation



Drivers in Battle Mountain, Nevada 2018

Matthias König
Ellen van Vugt

Bike Tyrfinn by Elan

Elan Human
Power Team

Lightweight full carbon unfaired recumbent bike
for races like criterion, time trail or sprint.

Driver – Matthias König



Bike TroyTec Revolution

Lightweight partly faired recumbent bike
for races like criterion, time trials and sprints

Driver – Ralf Golanowsky



Bike Milan SL CAS by Räderwerk

Lightweight fully faired velomobil for races like criterion, time trail and sprint and long distance records.

Driver: Matthias König

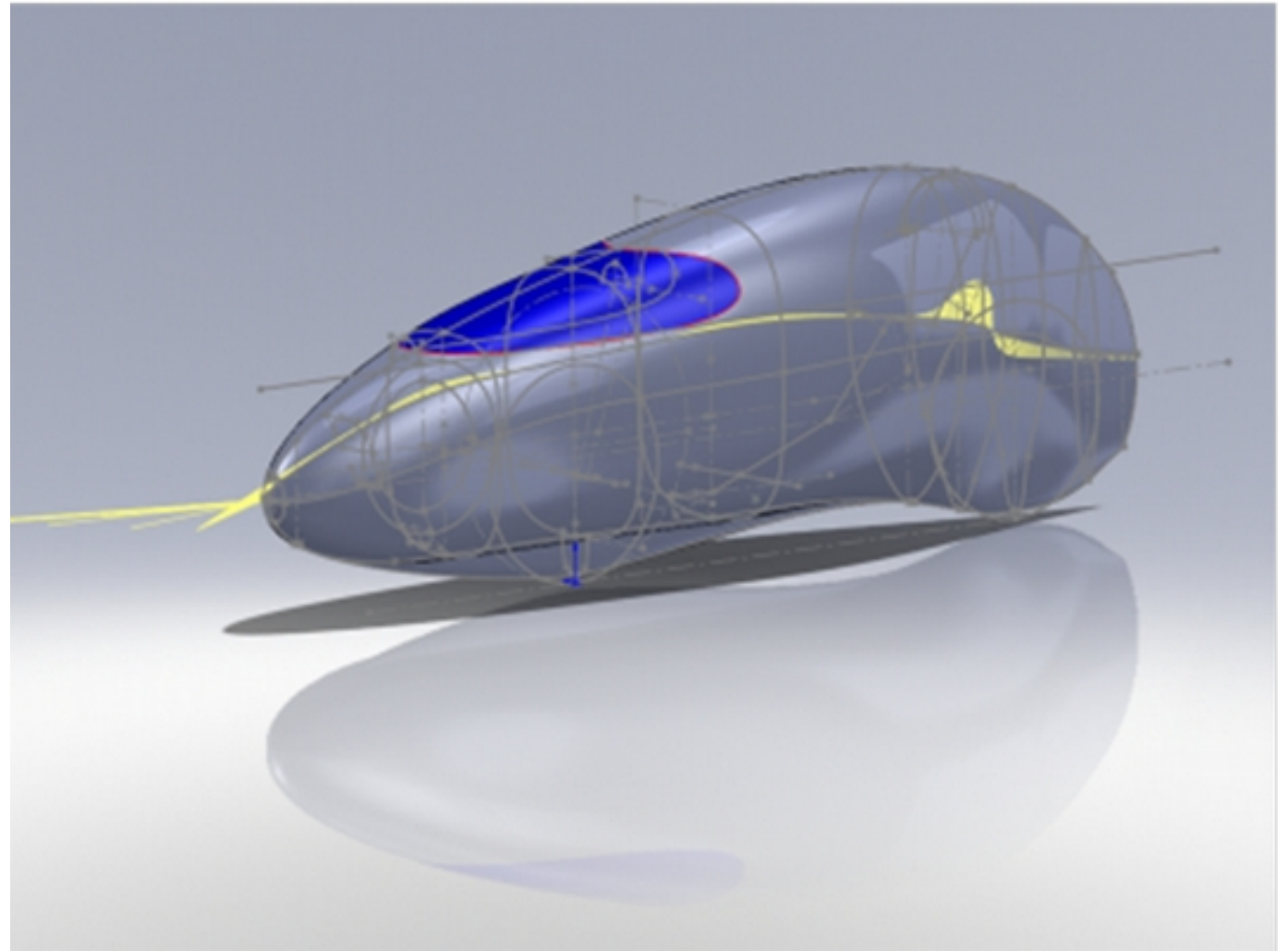
Elan Human
Power Team



Bike Velox XS by Elan

Lightweight full faired two-wheeler
prototype for short distance records
like 200 m and 1 h.

Driver:
Ellen van Vugt
Matthias König



Impressions of Velox XS

Elan Human
Power Team



Adjusting sitting position of Matthias



Competitors of Battle Mountain 2018



Velox XS after fixing the scratches of a crash at 113 km/h in Battle Mountain



Starting routine: Ellen is launched by Hans.

Velox XS Technology

The bike is a handmade full faired two-wheeler prototype with a simulated aerodynamic shape.

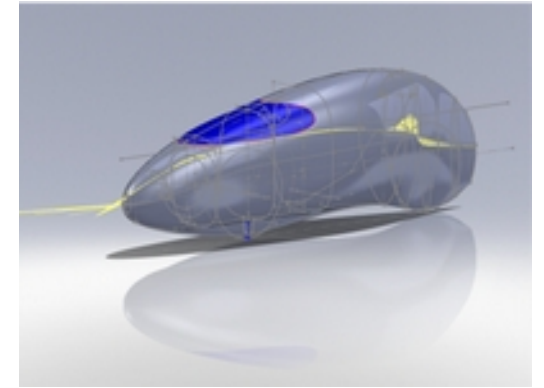
The Velox XS was designed in cooperation with the University of Delft (NL) in 2006 and since then continuously improved.



Rear wheel drive with intermediate gearing for reaching high speed.



Bottom and upper part of Velox XS



3D aerodynamic modeling



Inside view of Velox XS

Velox XS II Innovations 2019/20

2019

Bigger wheels in 26" (20" old)

New Frame (bike is divided into front and rear part)

New window

Improved aerodynamics

(Details are top secret)

2020

Camera bike:

Improving shape of fairing

Camera and screen solution showing all relevant data



Team meeting for discussion and organisation



Camera and screen solution of other team



Modeling new inner frame of Velox XS II



Building new wheels