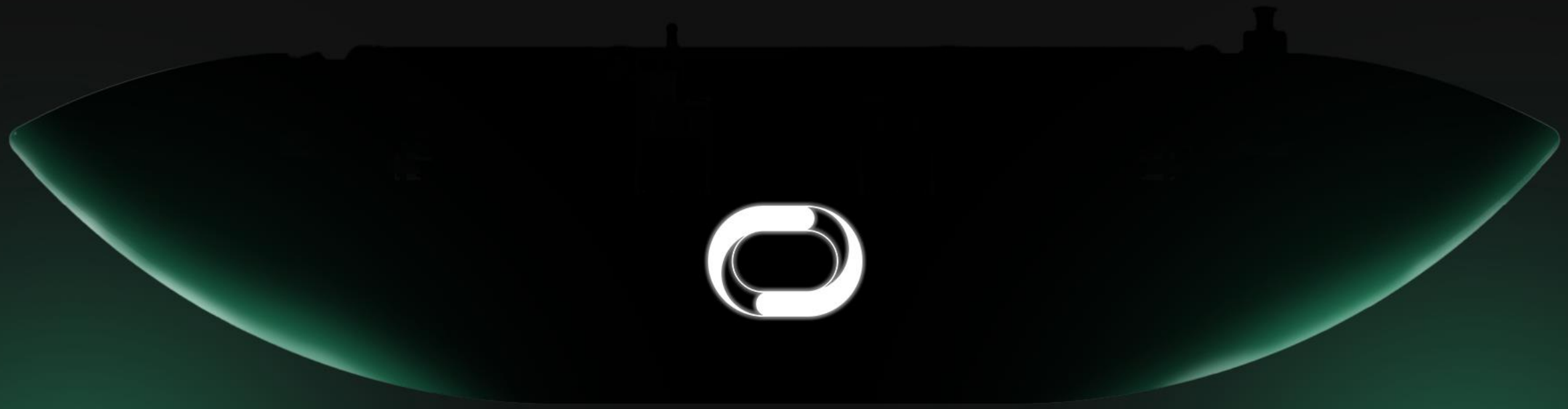


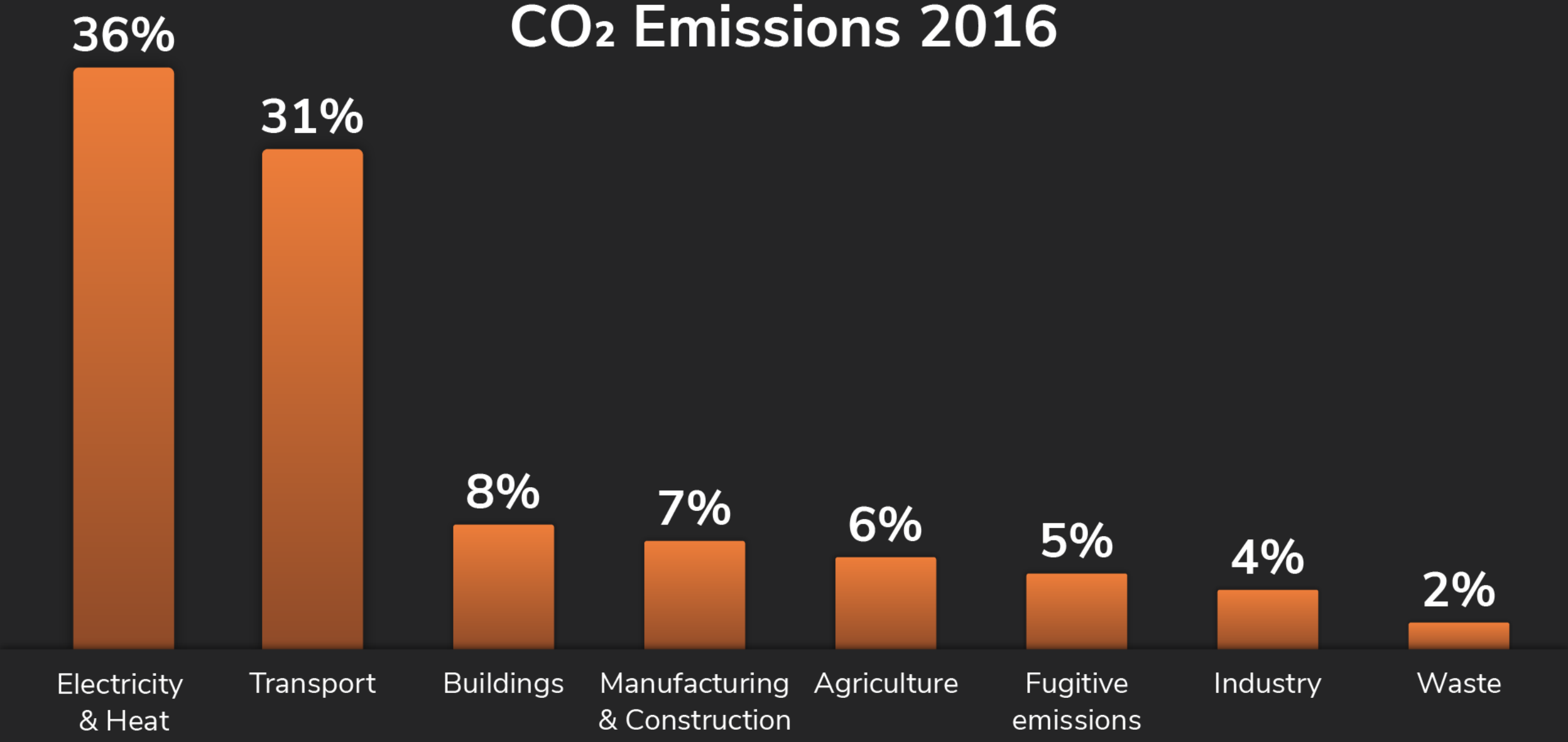
DELFT HYPERLOOP VI

Power & Electronics

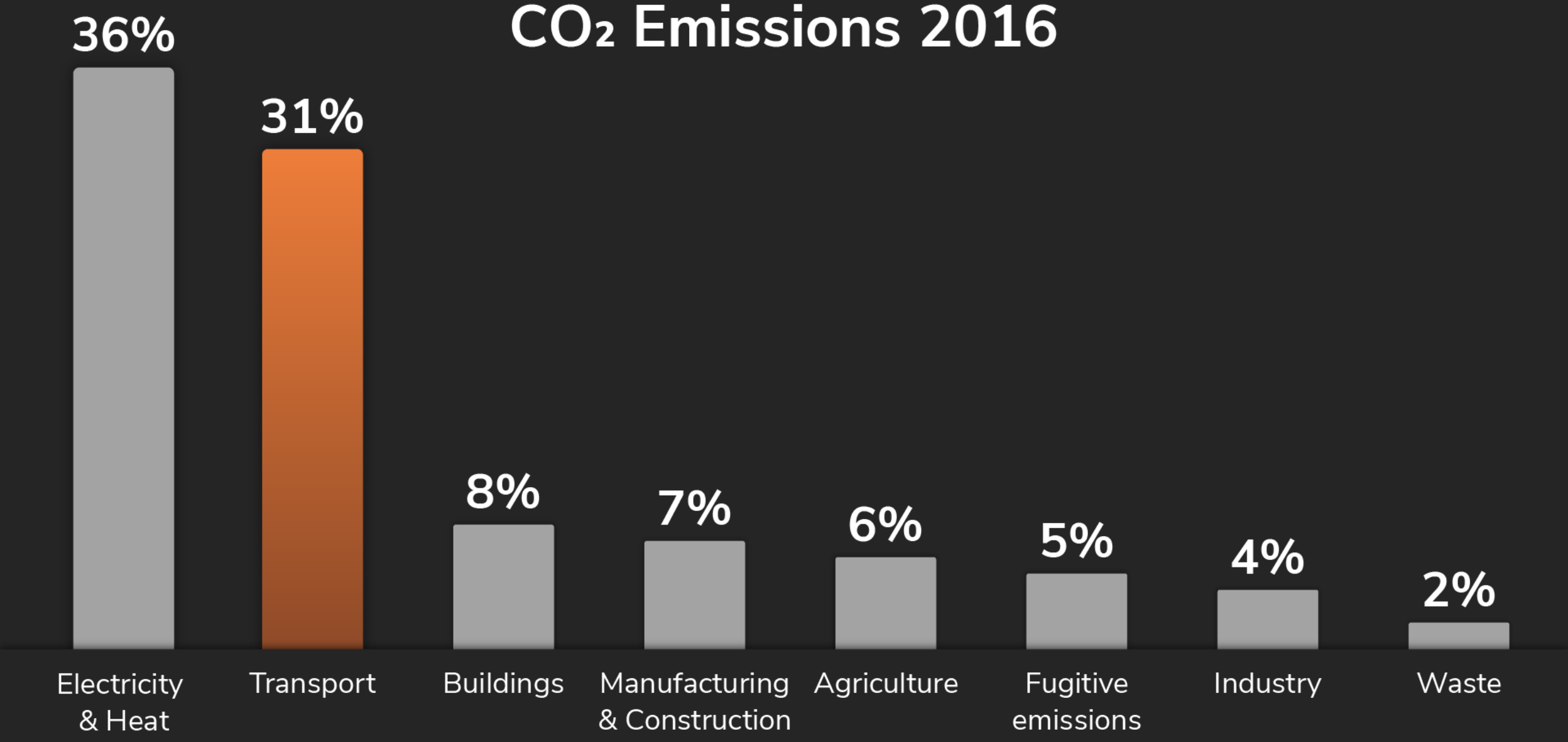
https://www.youtube.com/watch?v=c4U2q3QtWHI

DELFT HYPERLOOP

CO_2 Emissions 2016



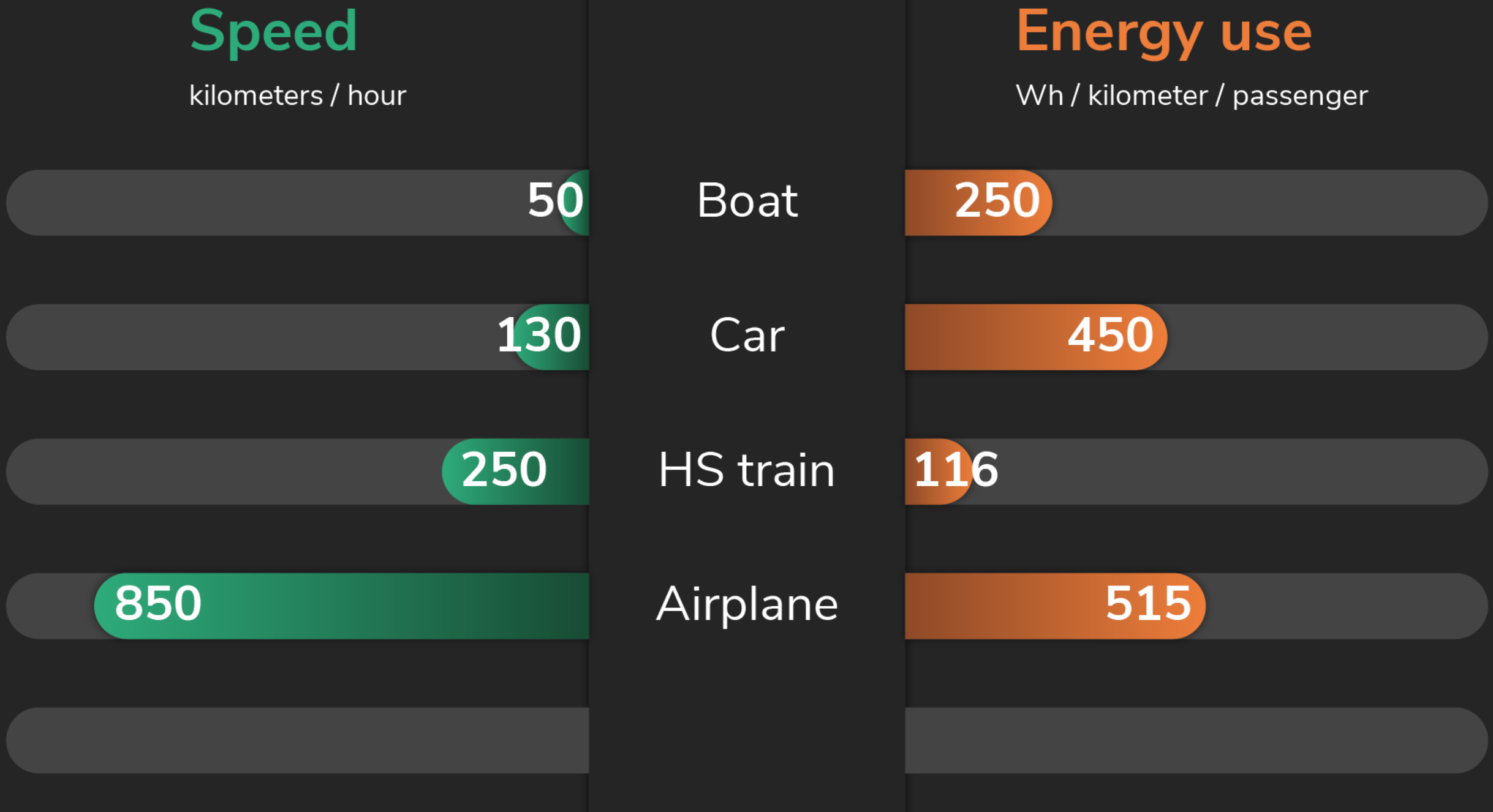
CO_2 Emissions 2016



CO_2 Emissions Transport

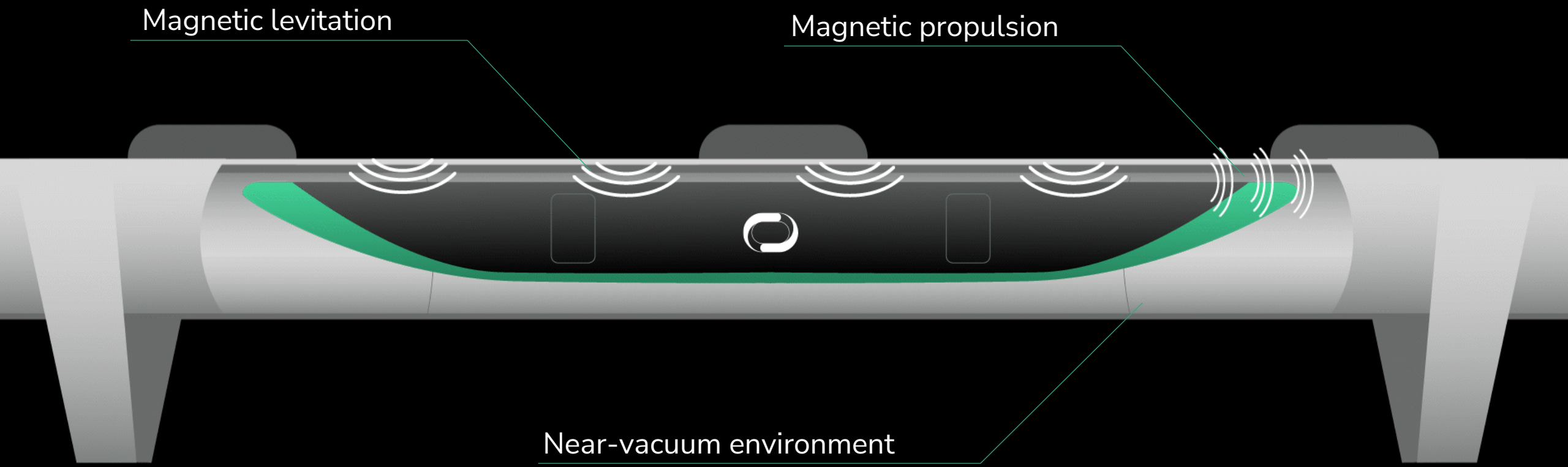
Delft Hyperloop VI Speaker

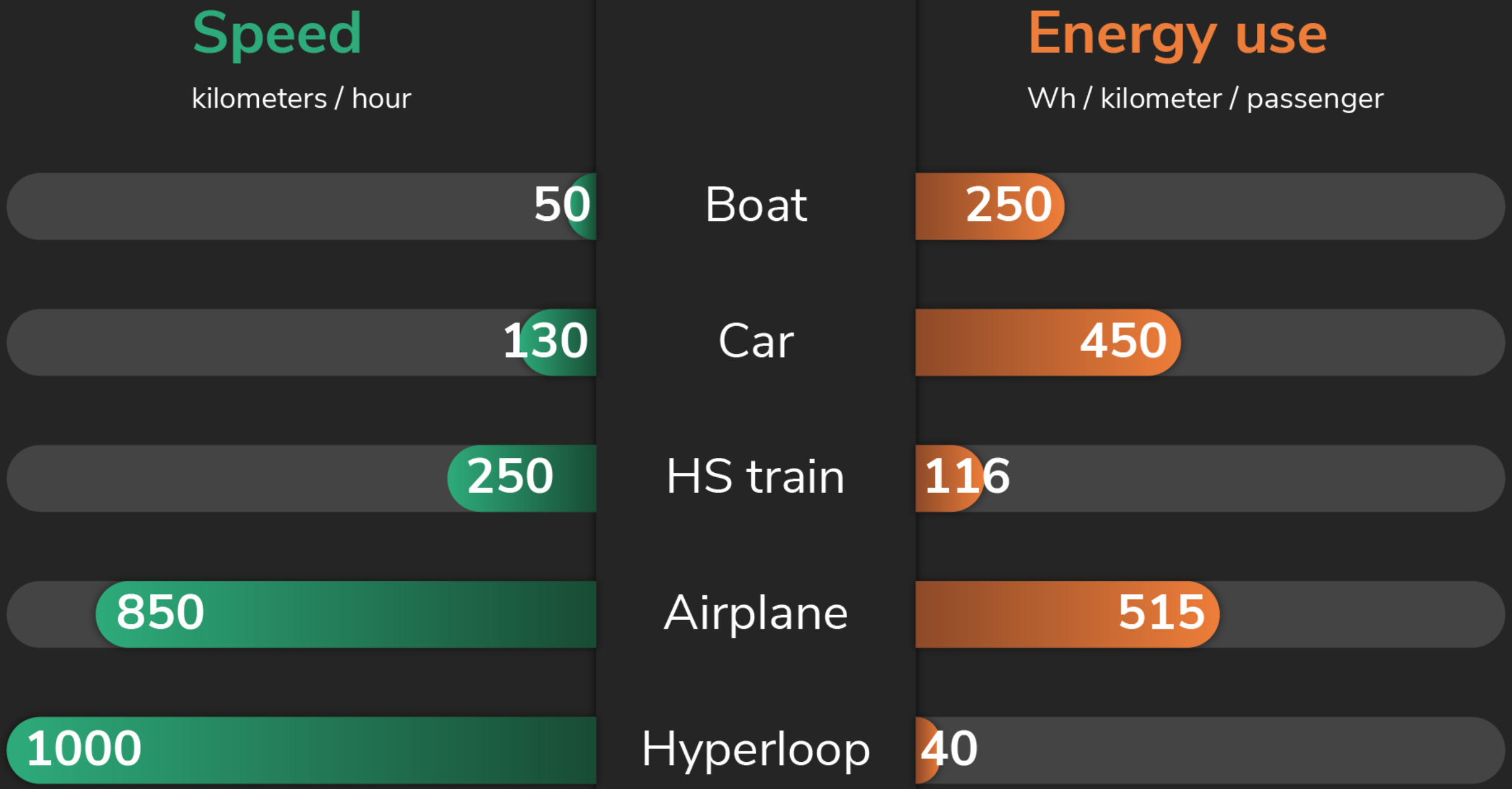
Hidde de Bos
Chief Engineer


Speed
kilometers / hour
Energy use
Wh / kilometer / passenger
50
Boat
250
130
Car
450
250
HS train
116
850
Airplane
515


DELFT
HYPERLOOP

$$P_{drag} \propto v^3$$


Magnetic levitation
Magnetic propulsion
Near-vacuum environment


Speed
kilometers / hour
Energy use
Wh / kilometer / passenger
Boat
50
250
Car
130
450
HS train
250
116
Airplane
850
515
Hyperloop
1000
40

“Our mission is to develop the desire, technology and infrastructure for the future implementation of the hyperloop system”


EUROPEAN
HYPERLOOP
WEEK

Winning all awards in the European Hyperloop Week

3 Giant Leaps


Amsterdam
Brussels
Paris


Amsterdam
Brussels
Paris


Amsterdam
Brussels
Paris


Amsterdam
Brussels
Paris

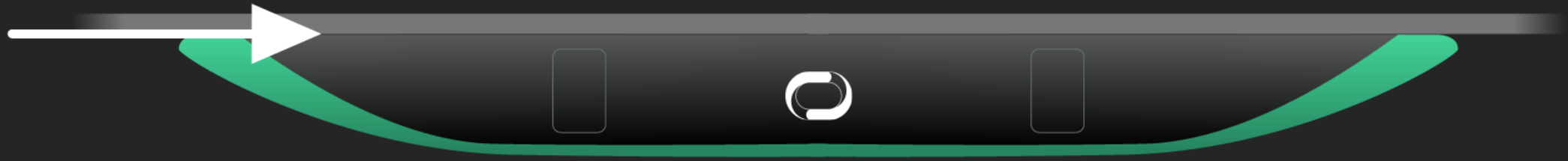

Amsterdam
Brussels
Paris

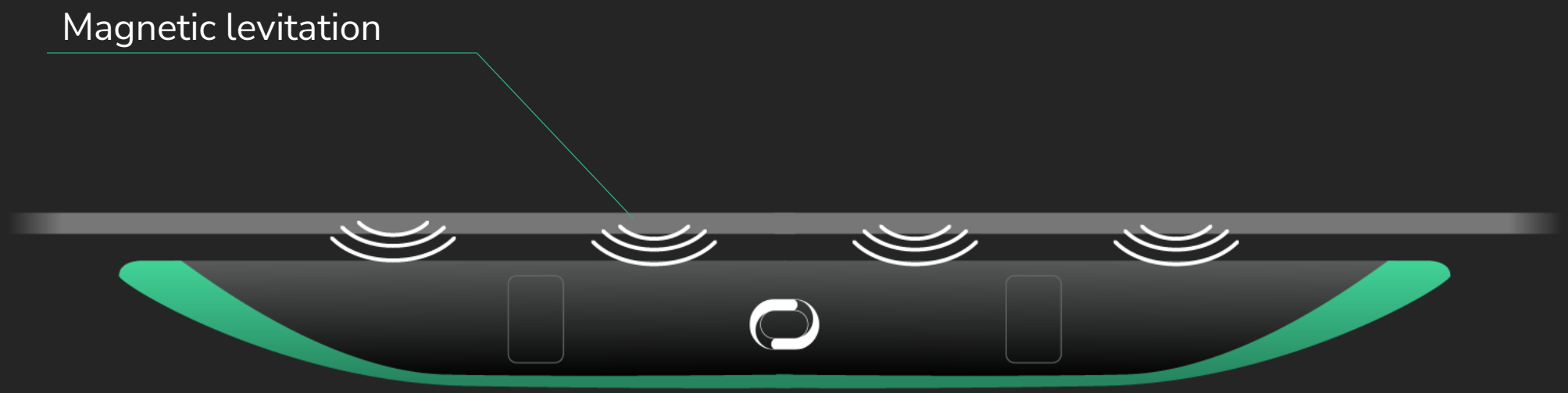
Conventional train

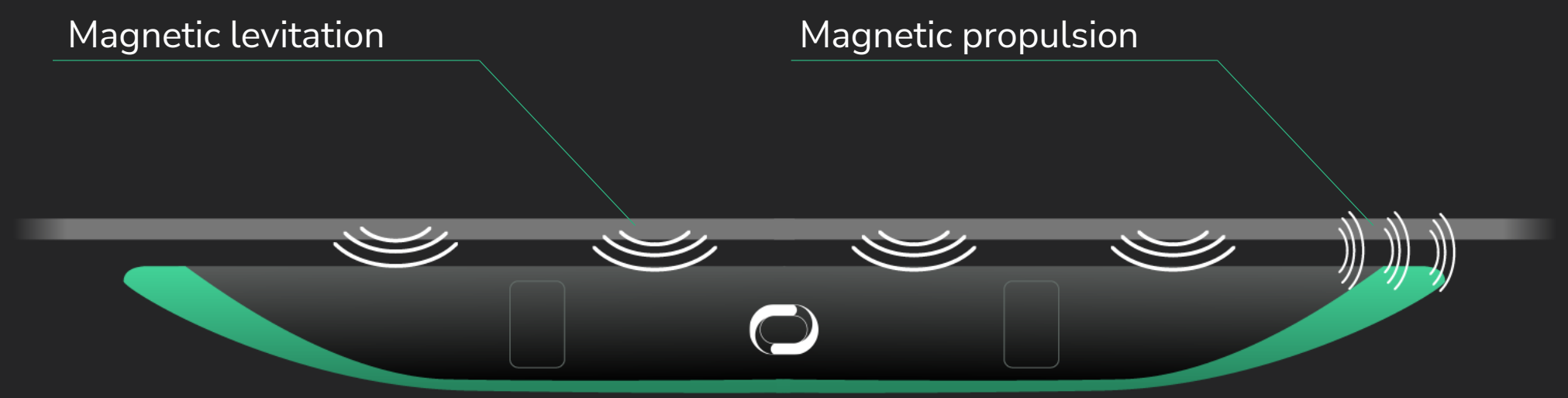
Conventional train

Hyperloop

Rolling resistance




Magnetic levitation


Magnetic levitation
Magnetic propulsion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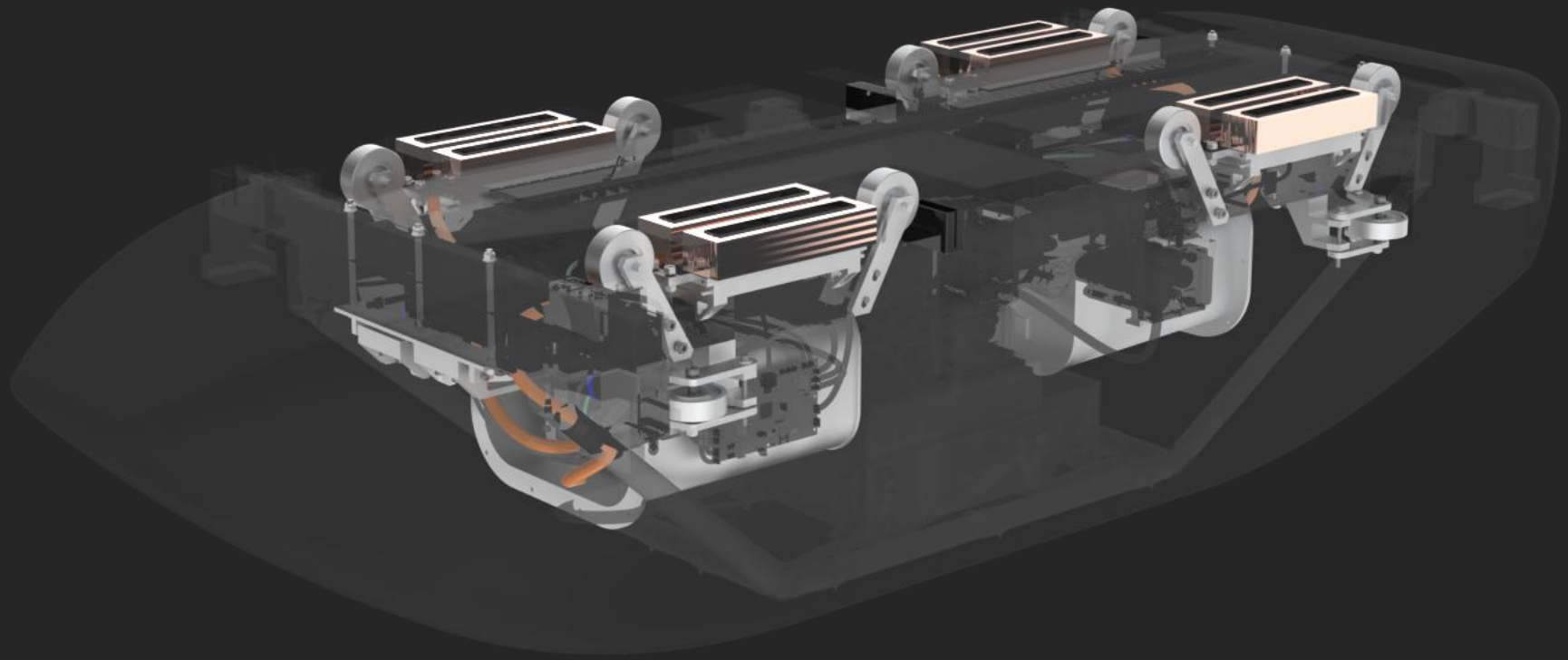
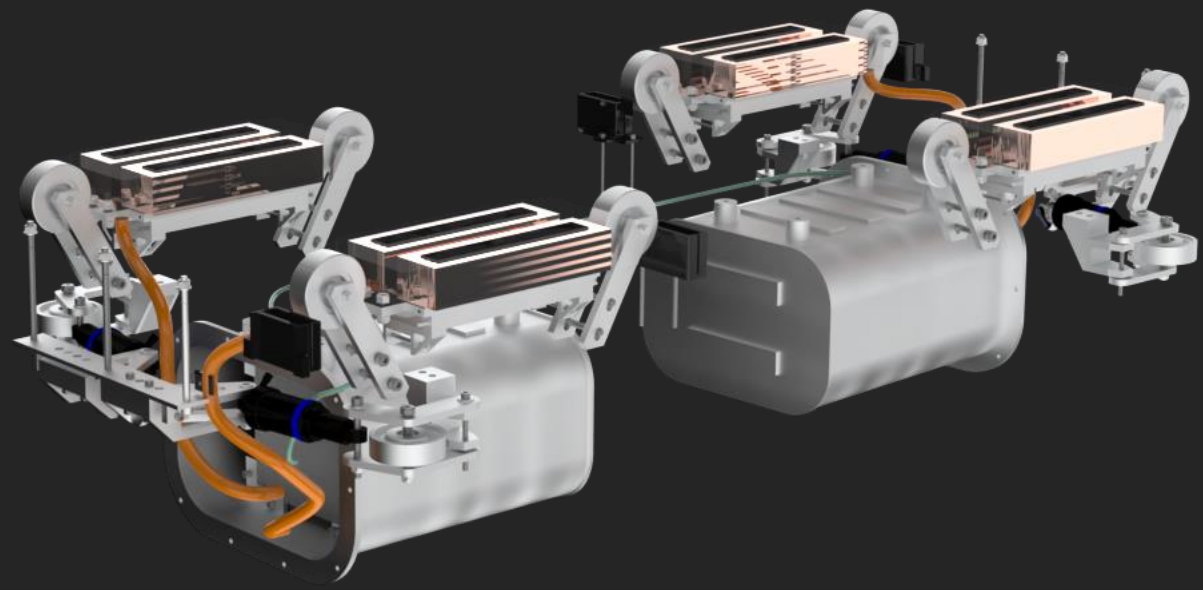
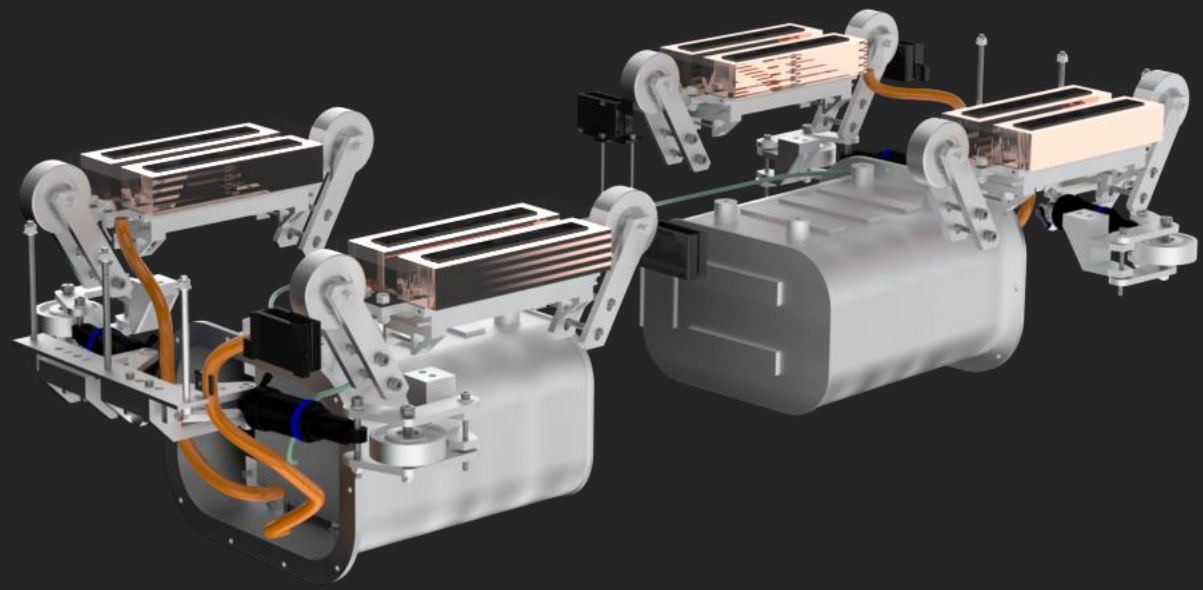
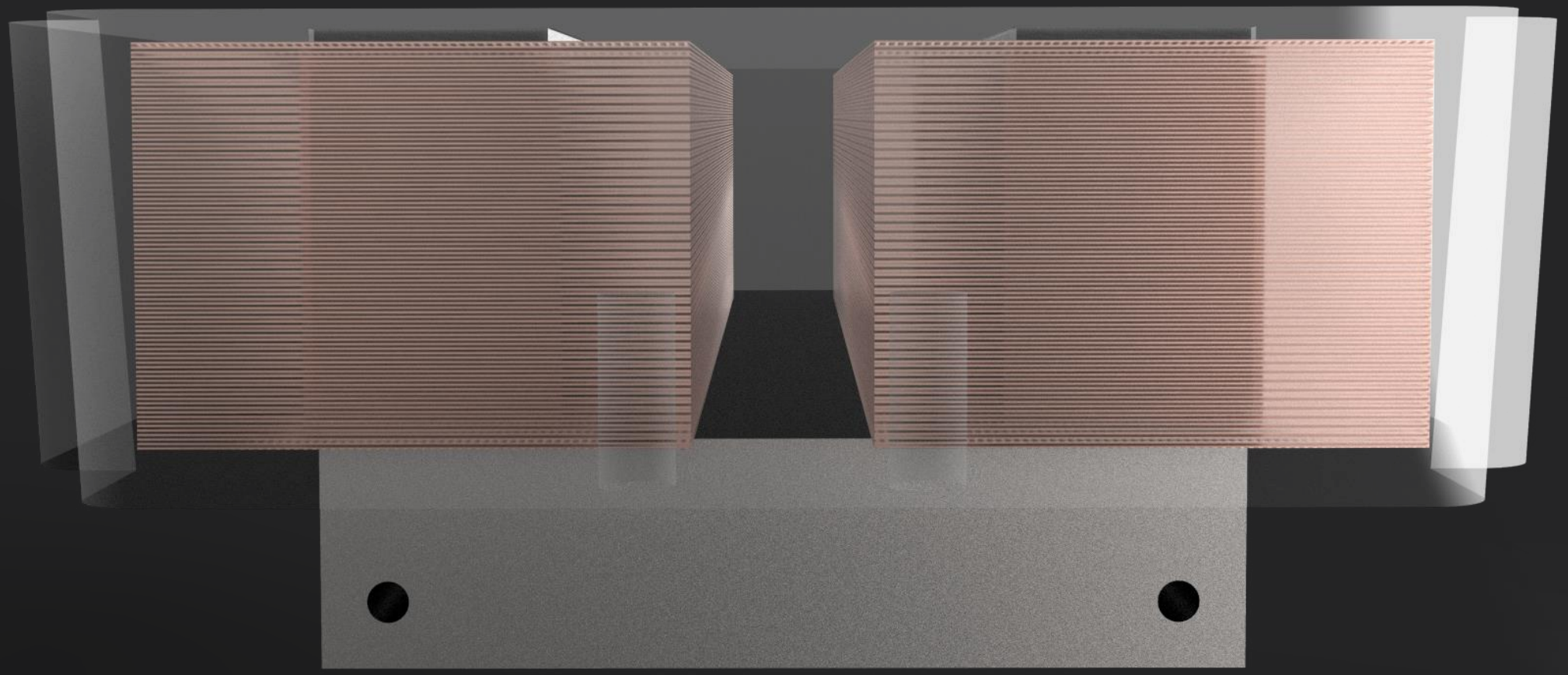
HELIOS I





Hybrid Electromagnetic Suspension (HEMS)

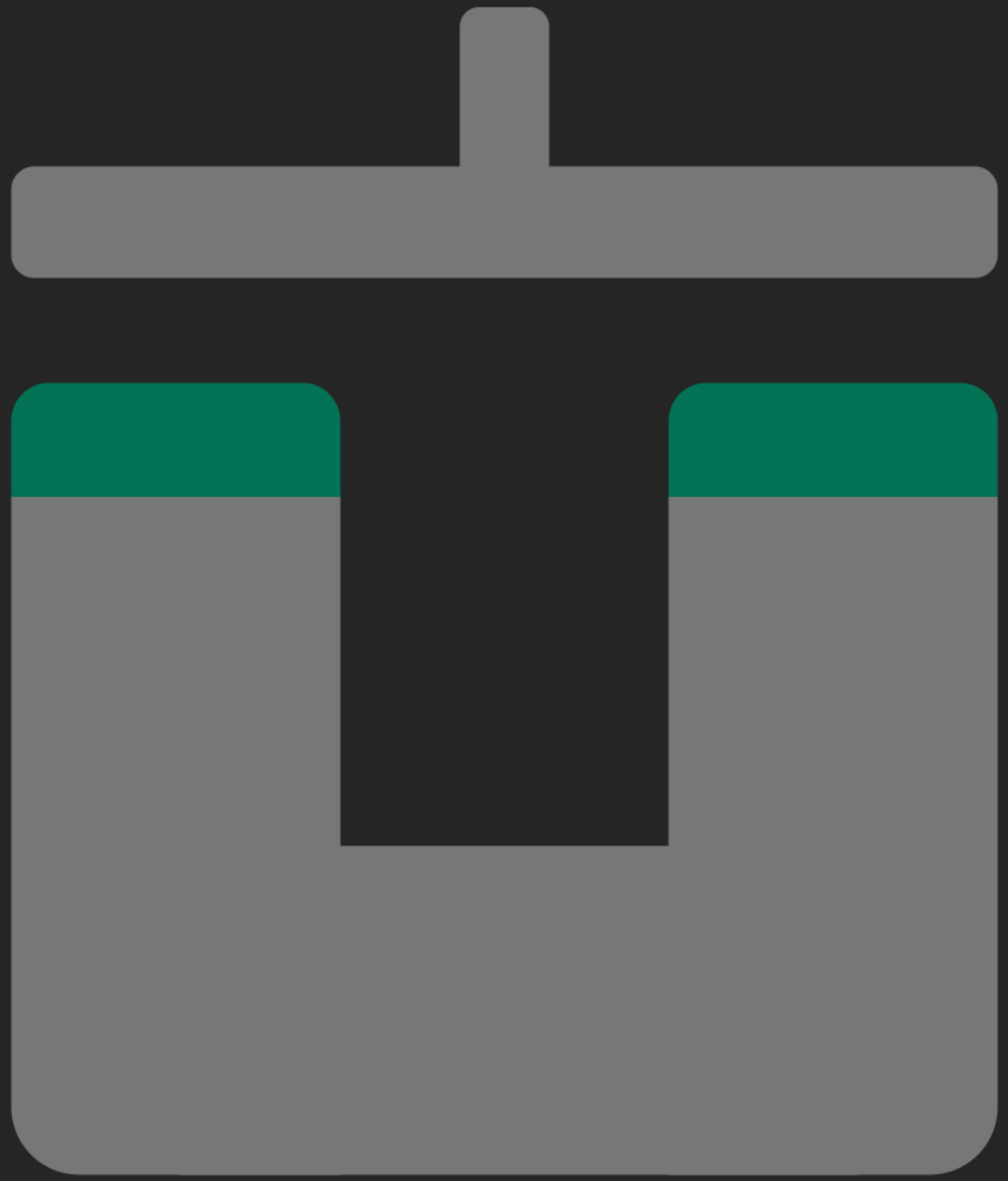




Track

U - core

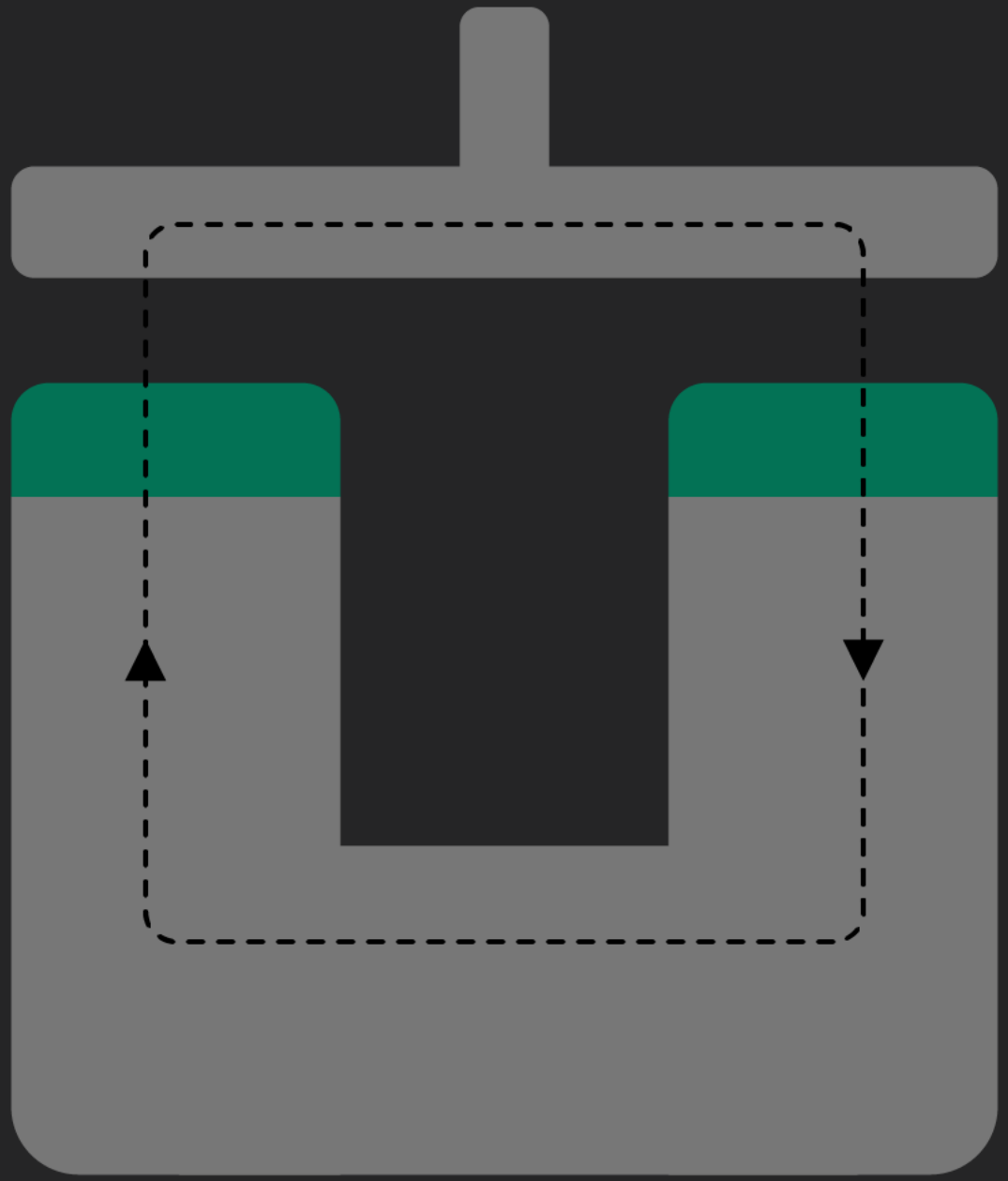
Track



Add Magnets

U - core

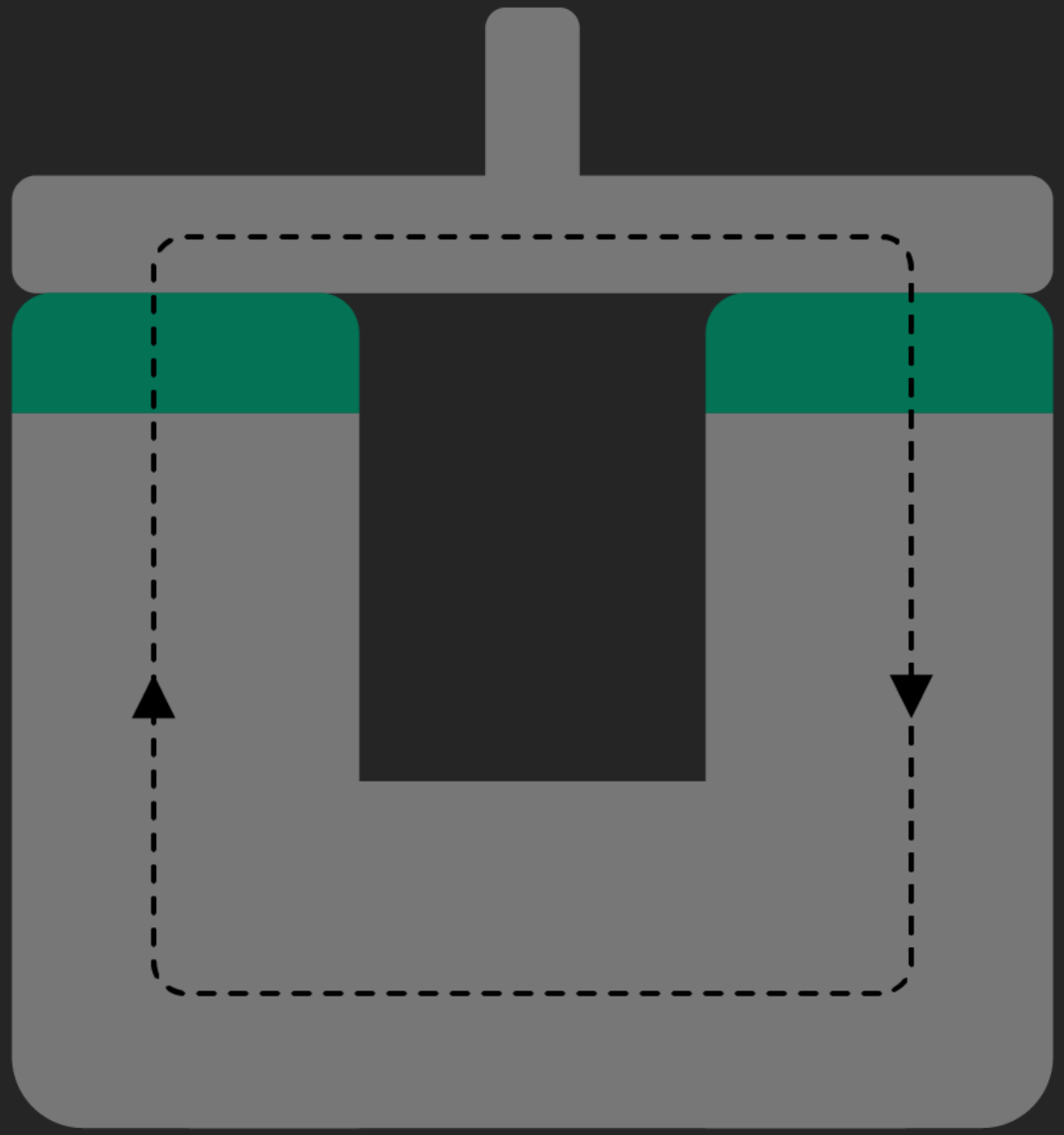
Track



Magnetic field

U - core

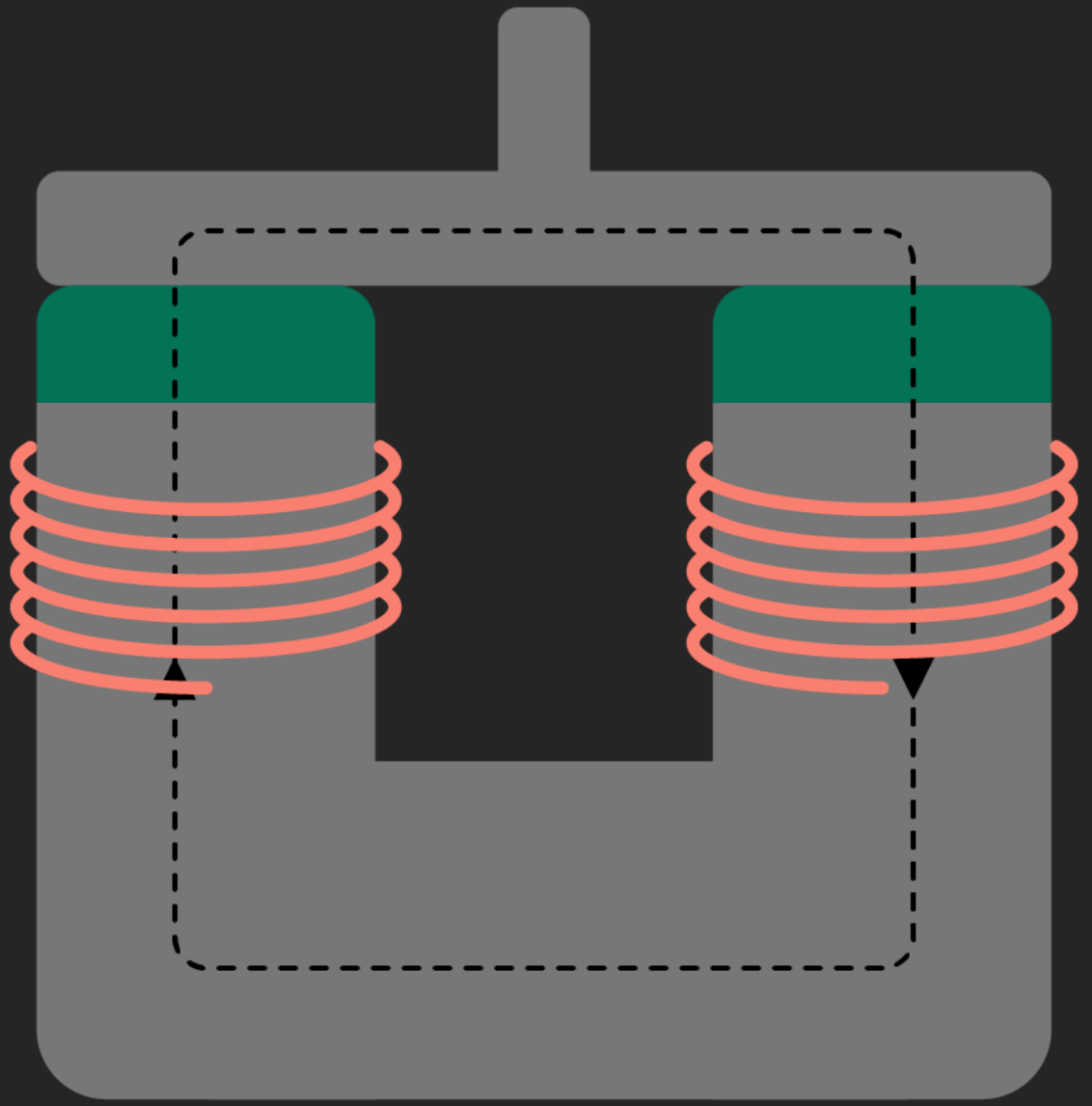
Track



Magnetic pull

U - core

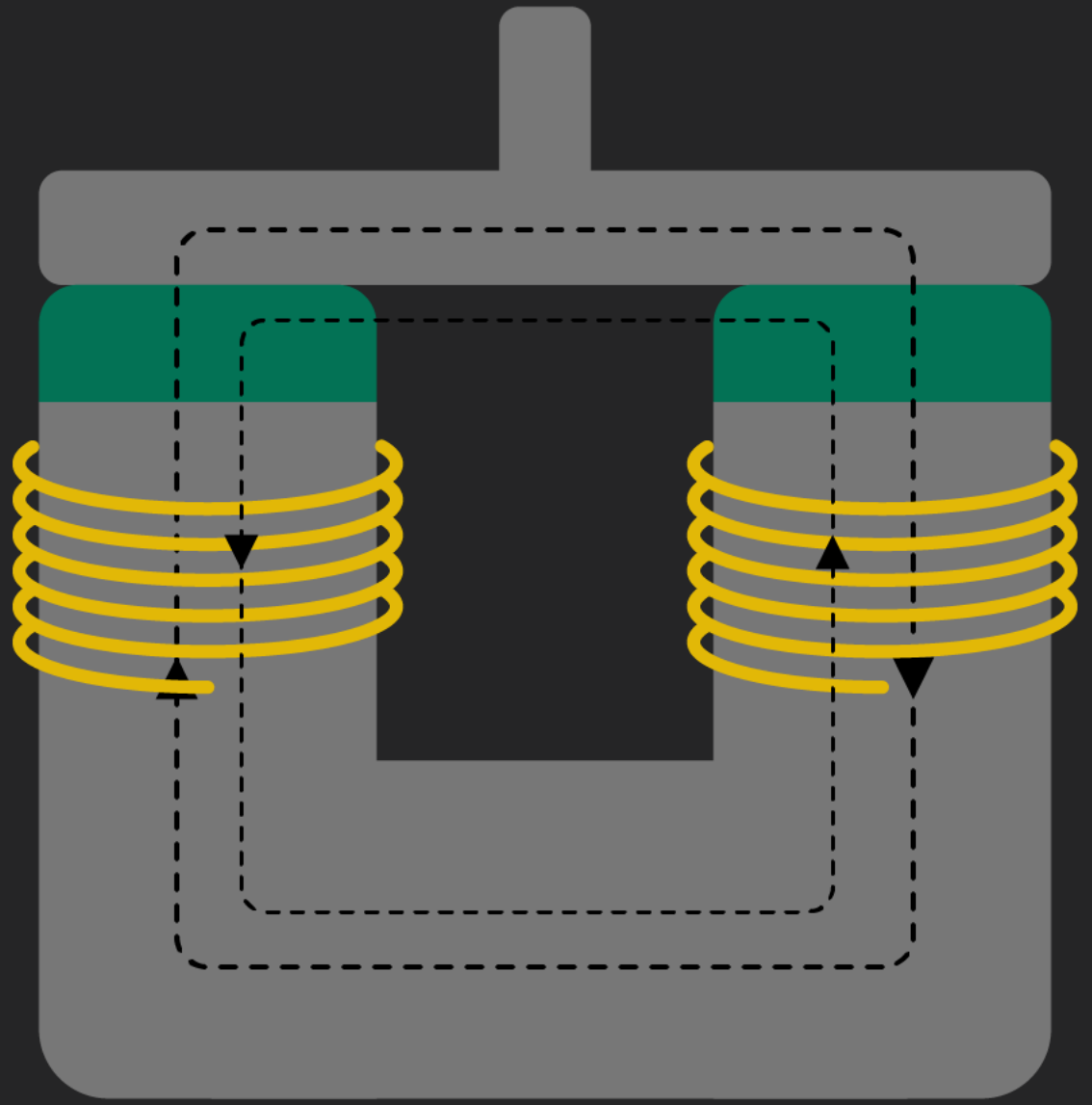
Track



Add Coils

U - core

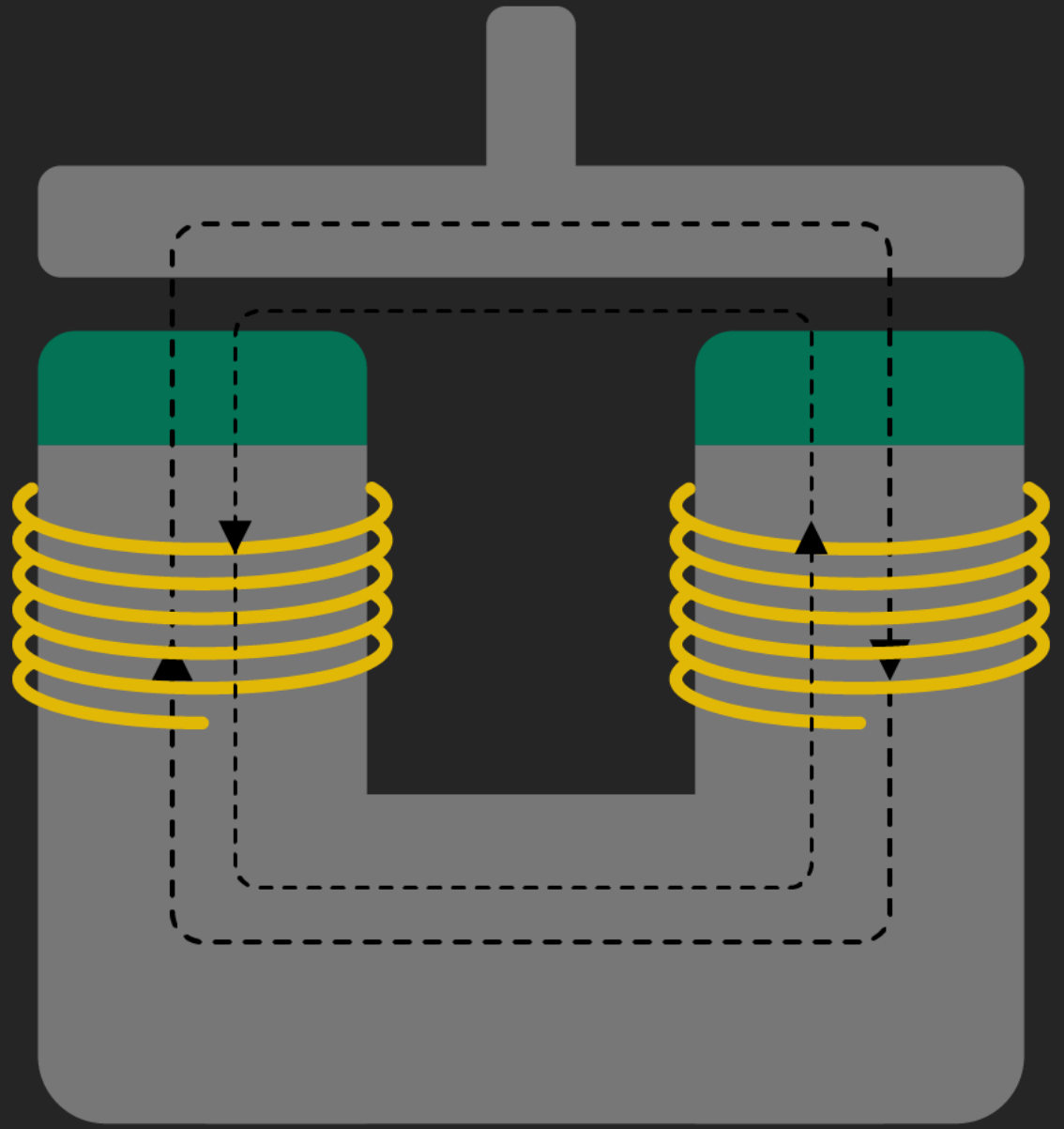
Track



Power on

U - core

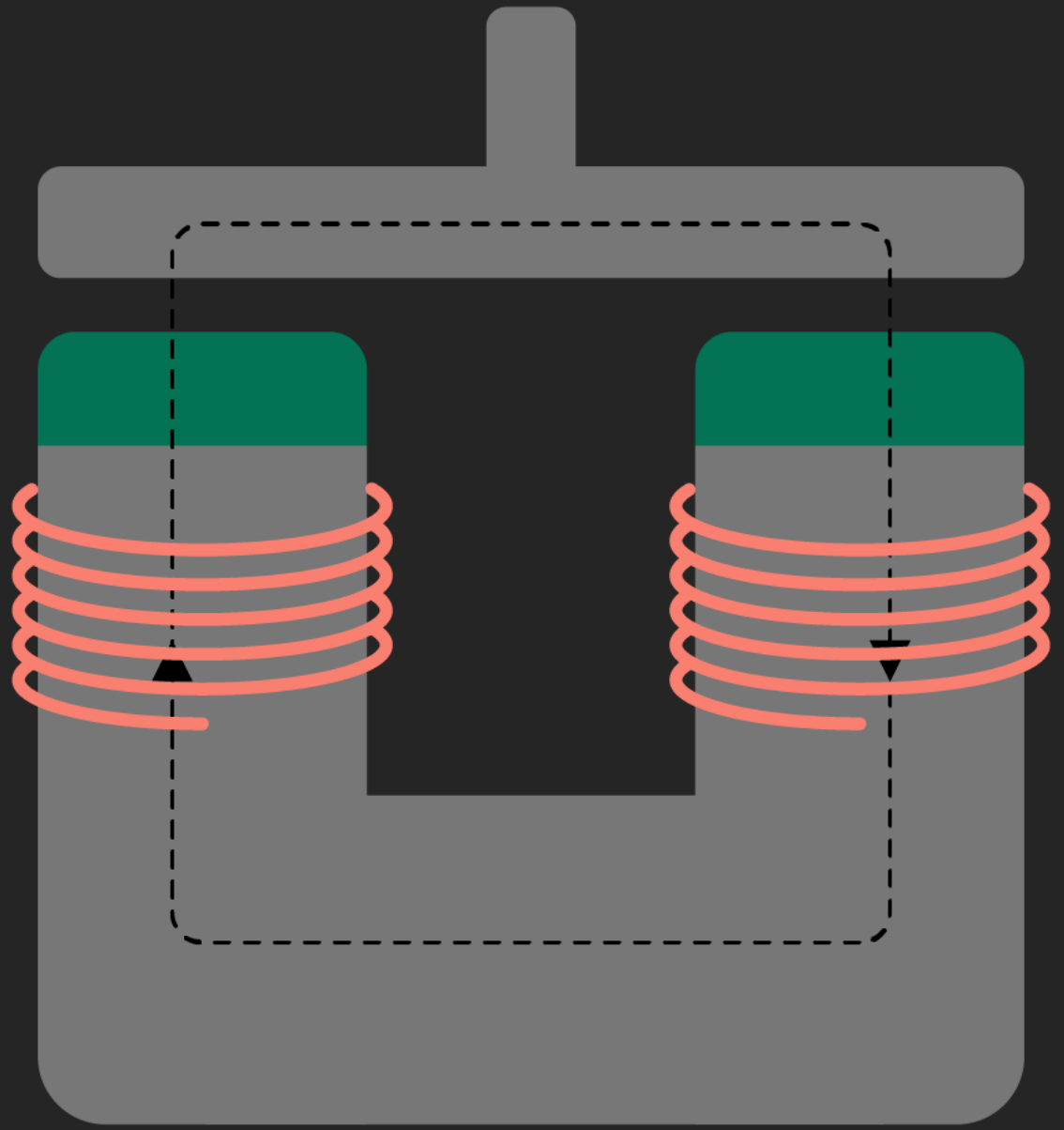
Track



Detach from track

U - core

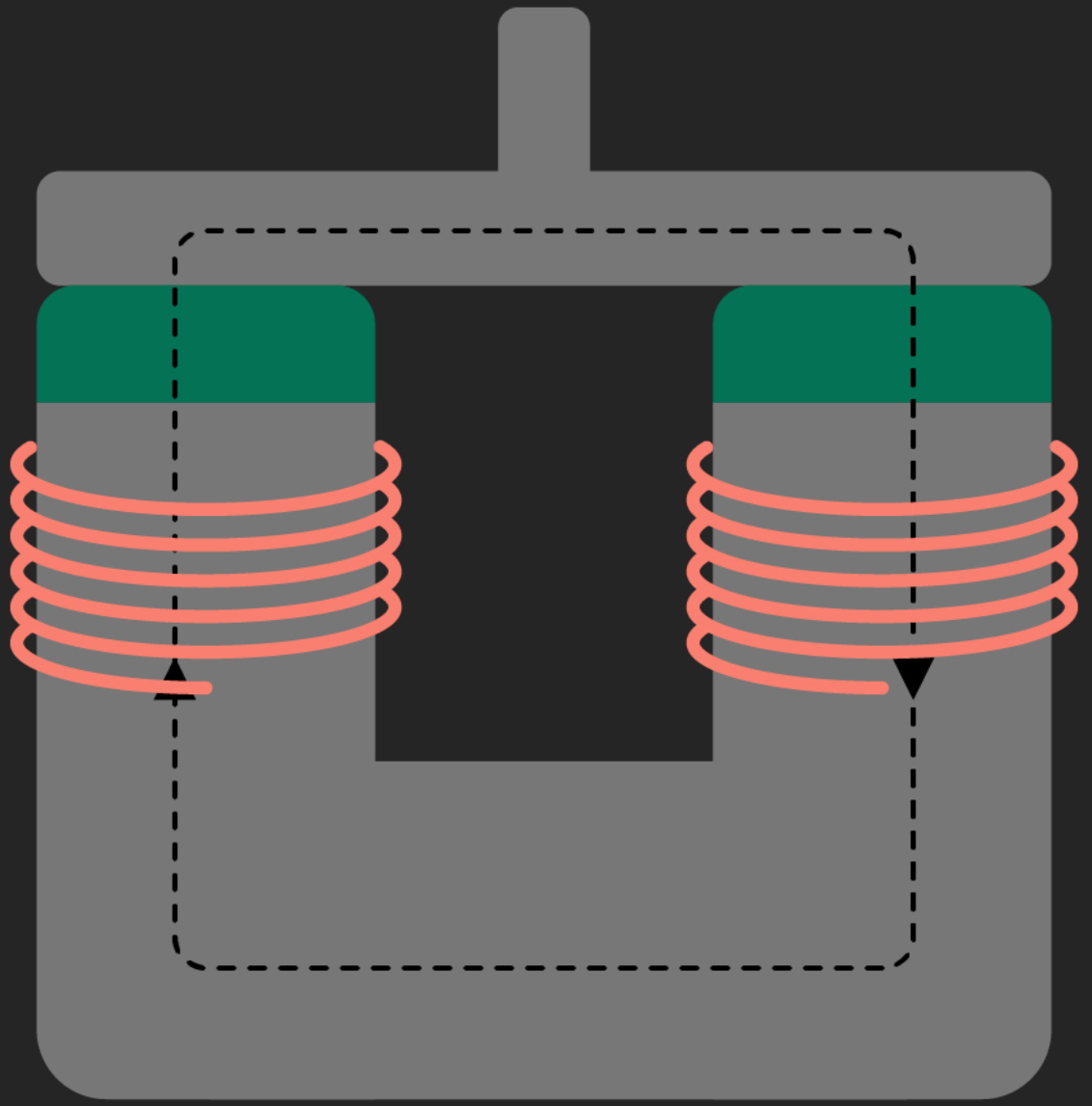
Track



Power off

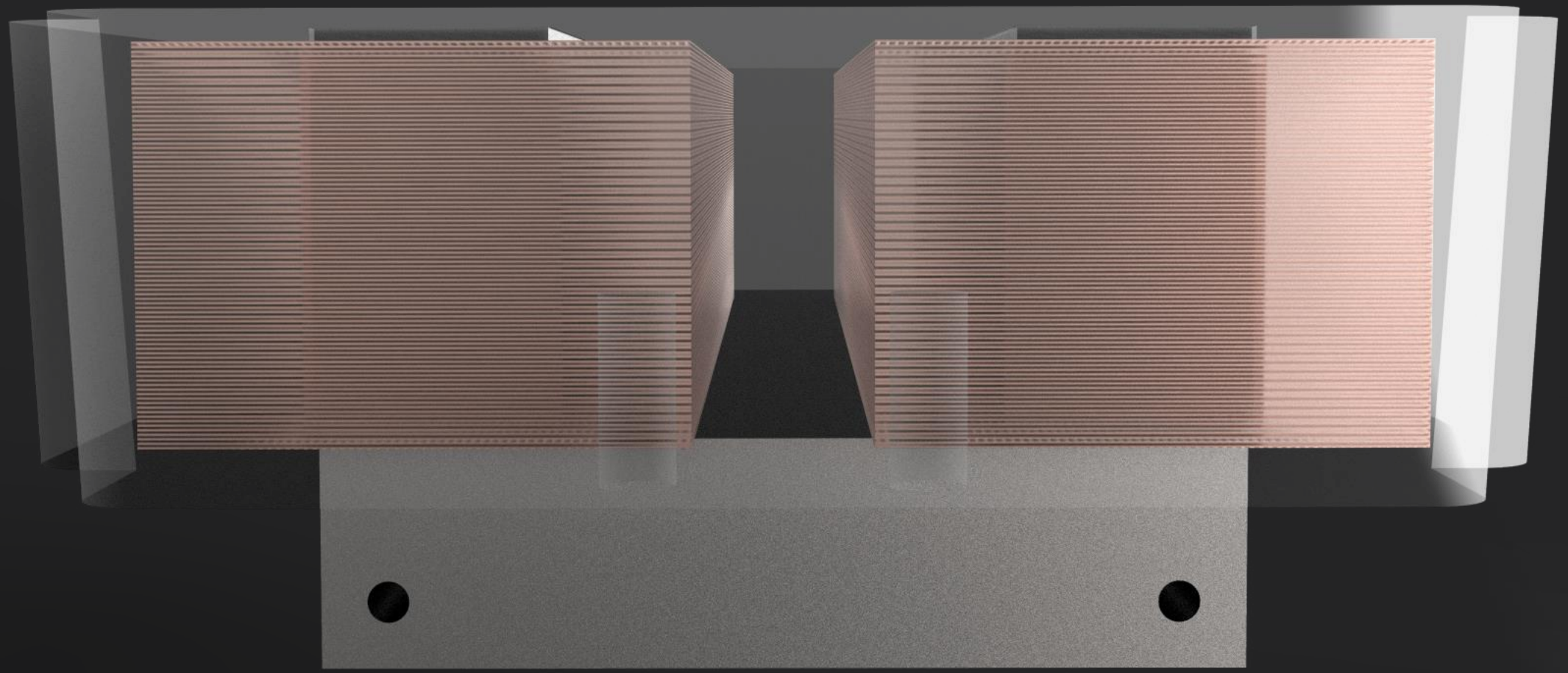
U - core

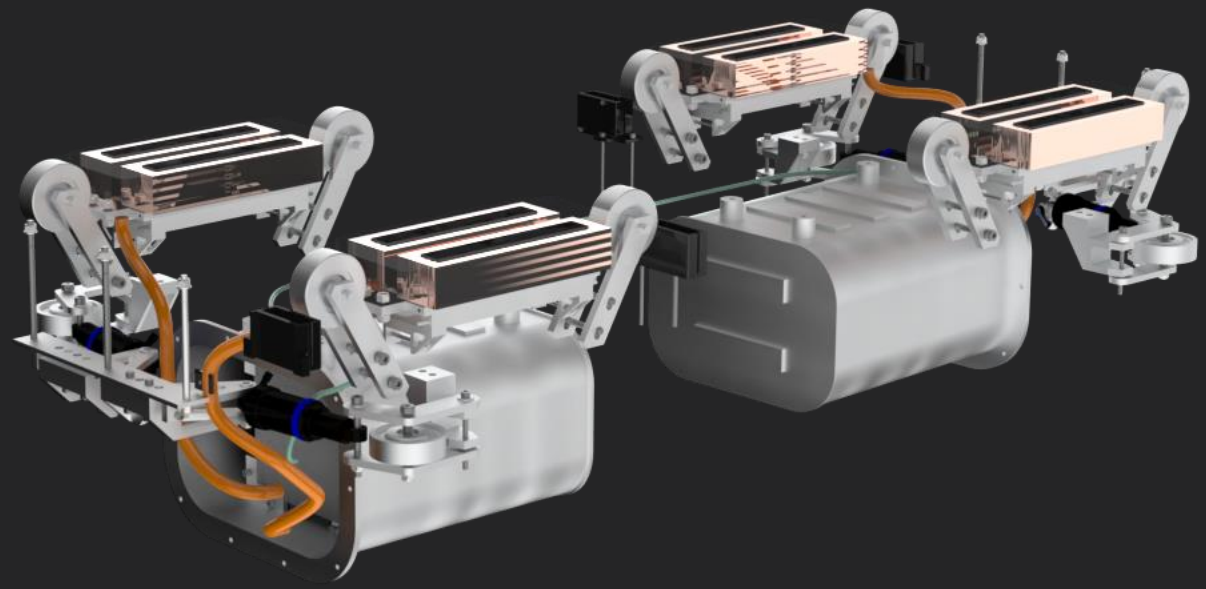
Track

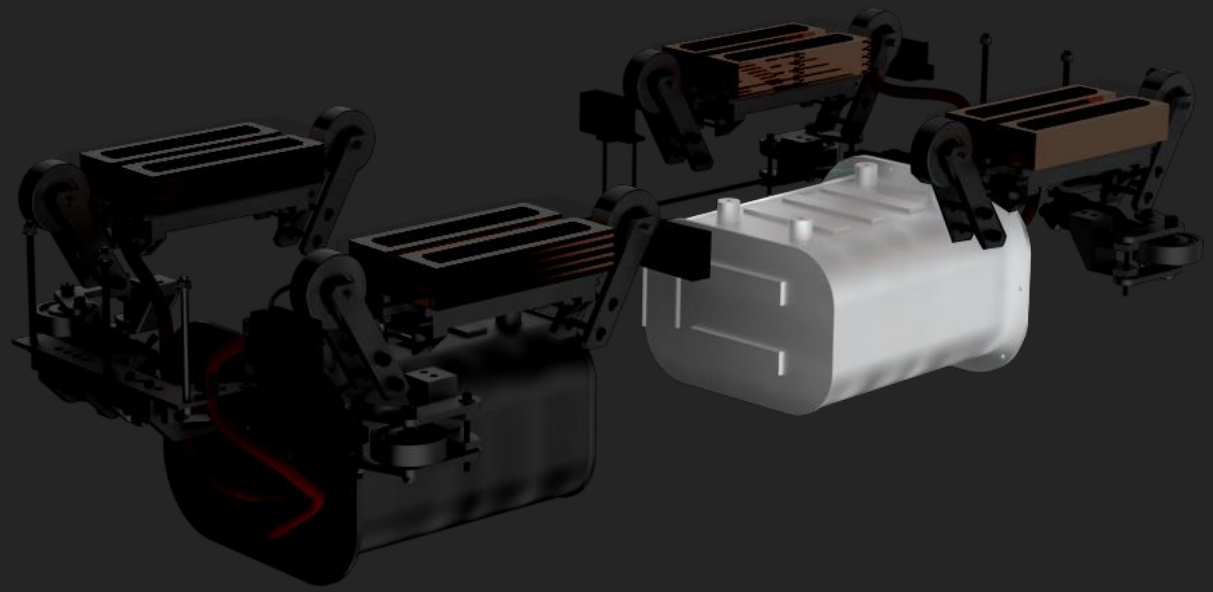


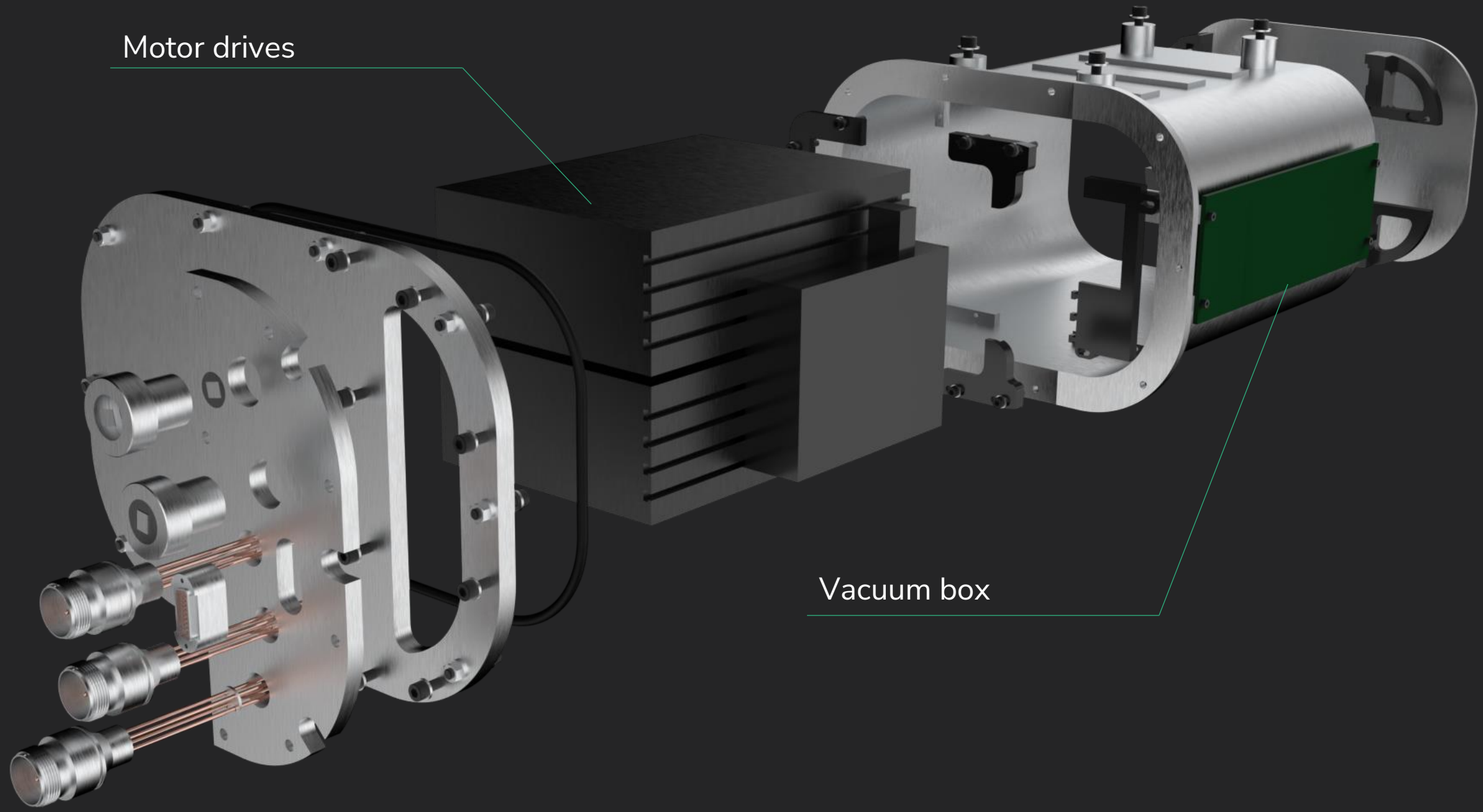
Attach to track

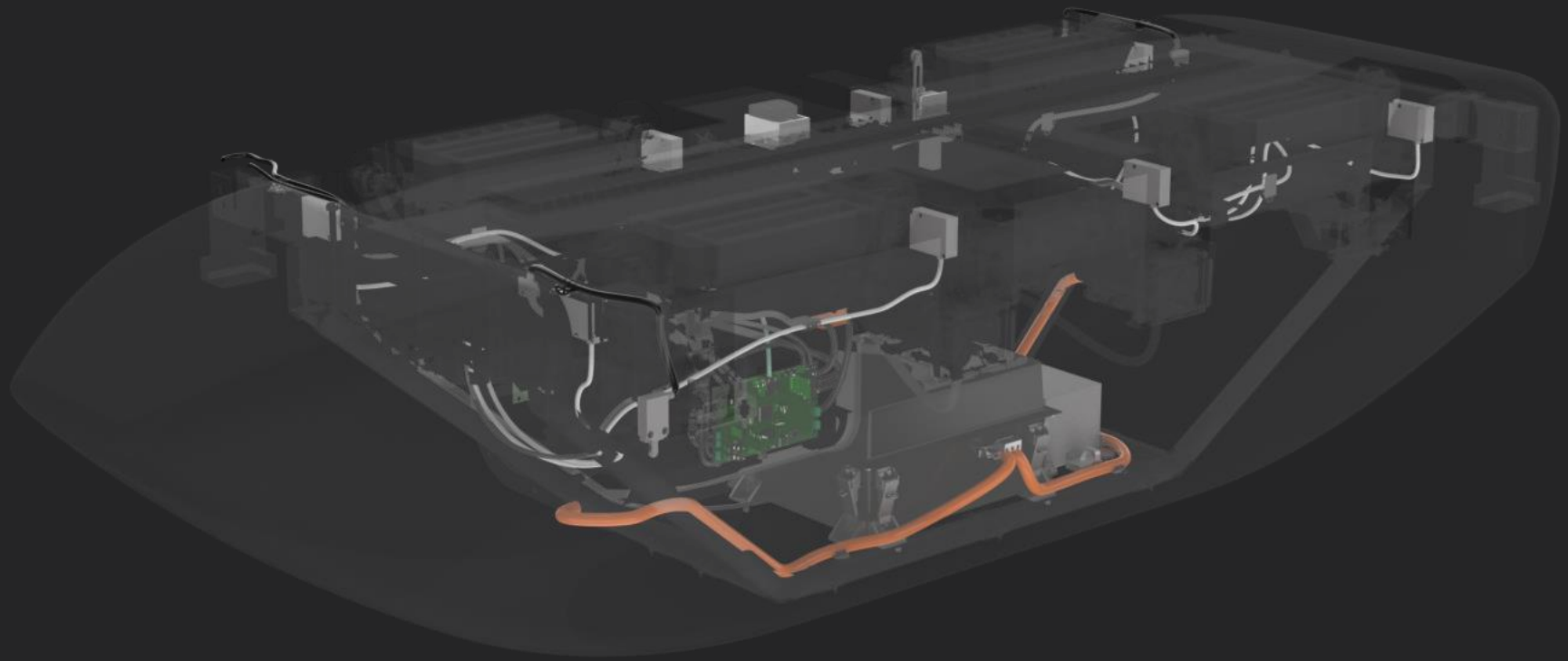
U - core

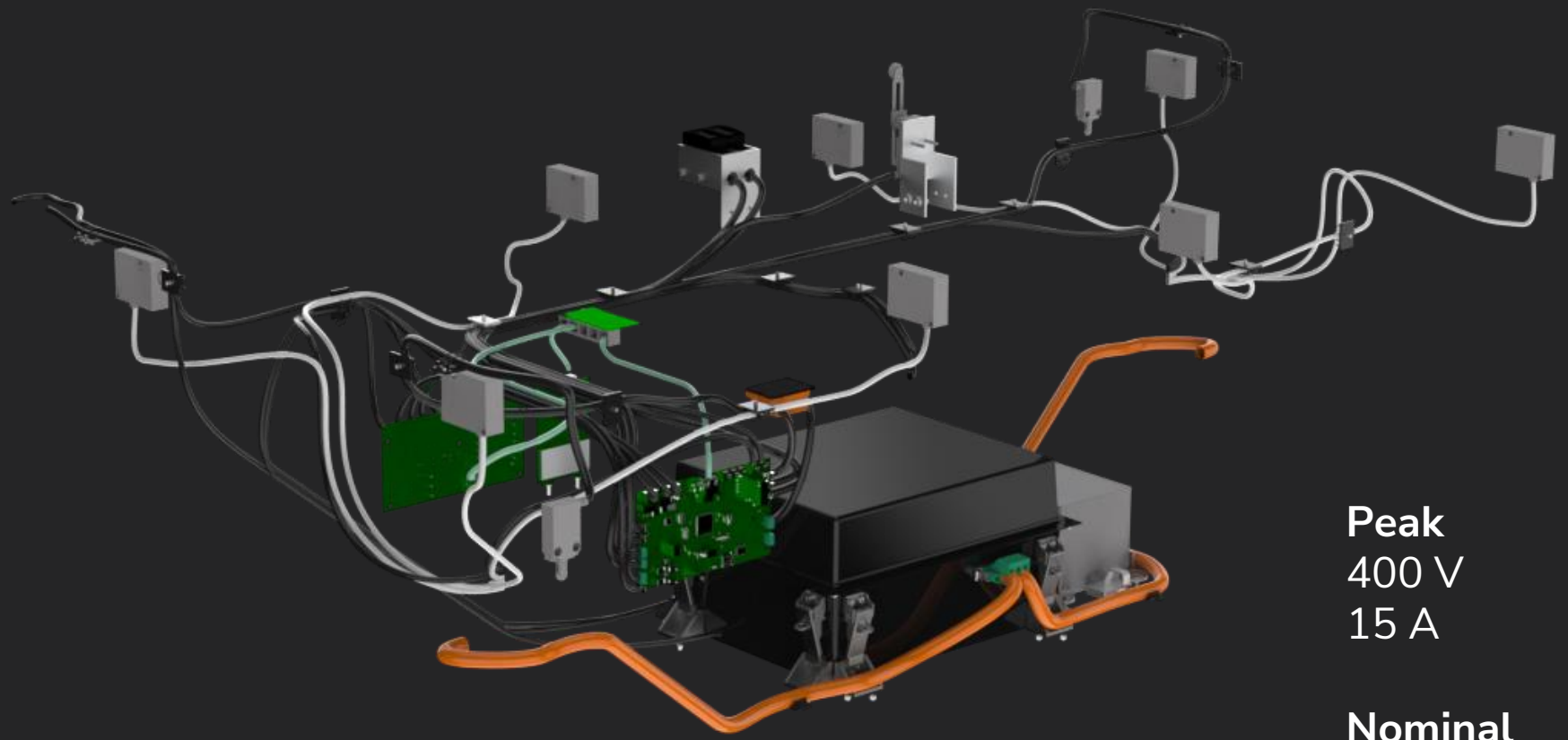






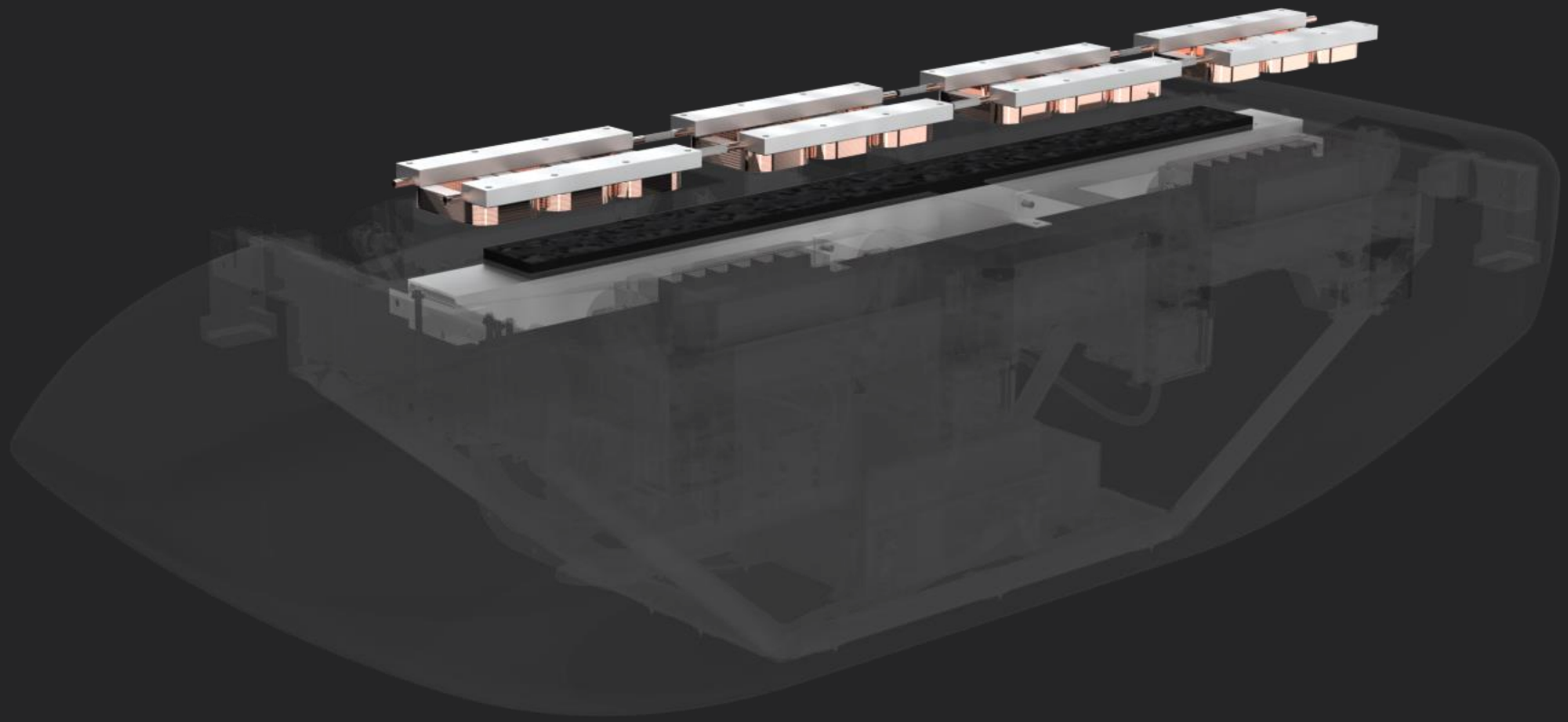

Motor drives
Vacuum box

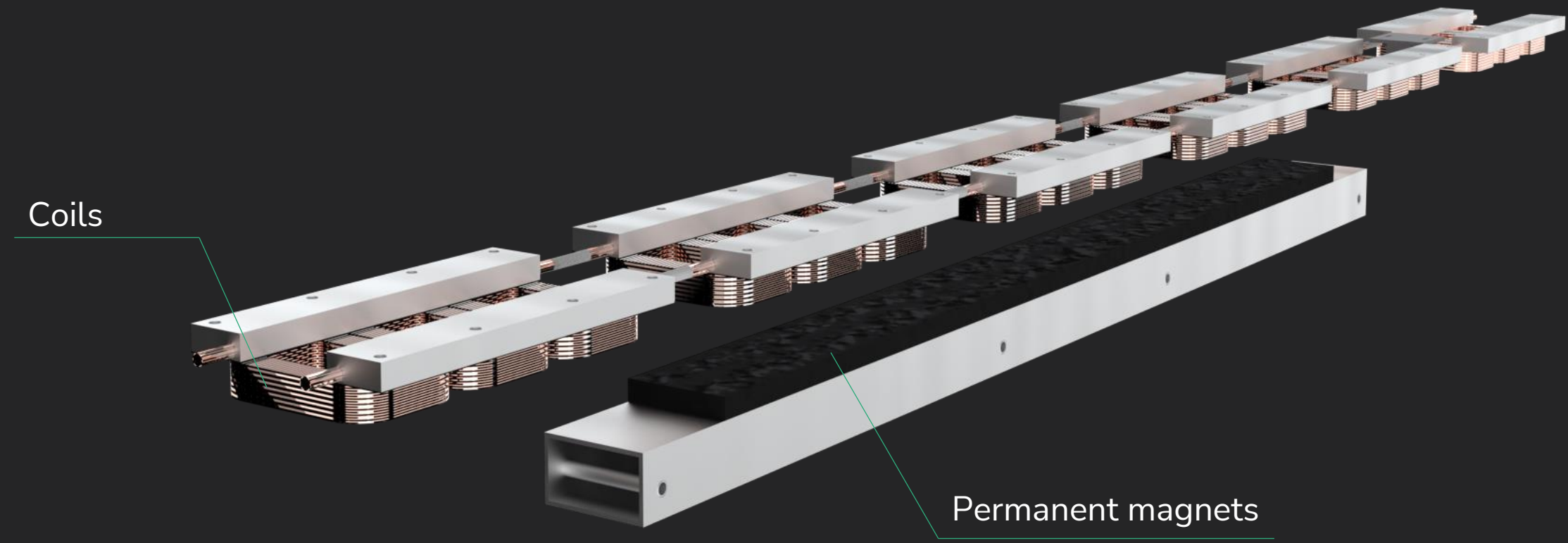


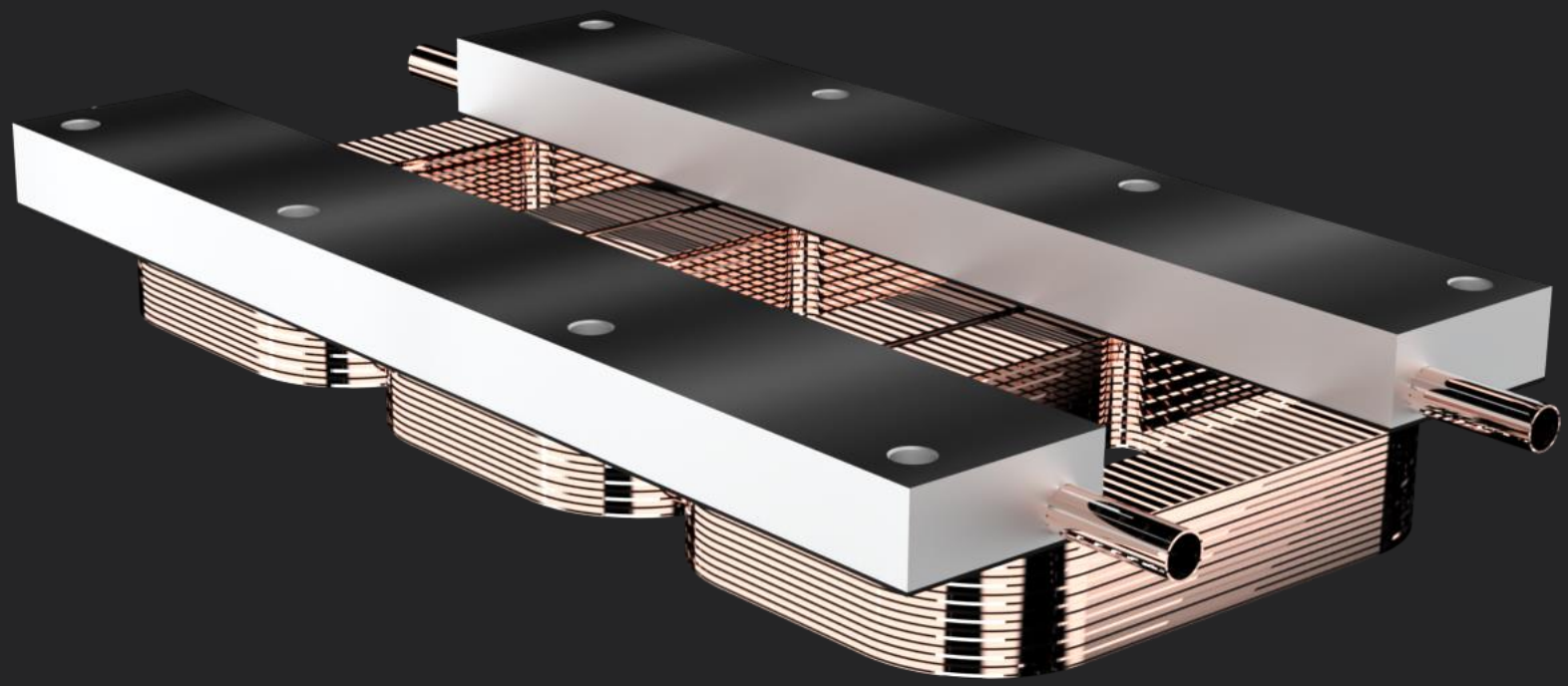


Peak
400 V
15 A

Nominal
400 V
2 A




Coils
Permanent magnets

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JUNE 25TH | 14:00

DELFT HYPERLOOP VI PRESENTS

THE HYPERLOOP EXPERIENCE

Galileistraat 15, 3029 AL Rotterdam

DELFT HYPERLOOP