

EXO-3

PUTTING SAFETY FIRST

- Lower body protection
- Compliant design
- Strength enhancer
- Improves safety
- Reduces strain



motorsport UK
EXOSKELETAL MARSHAL AID

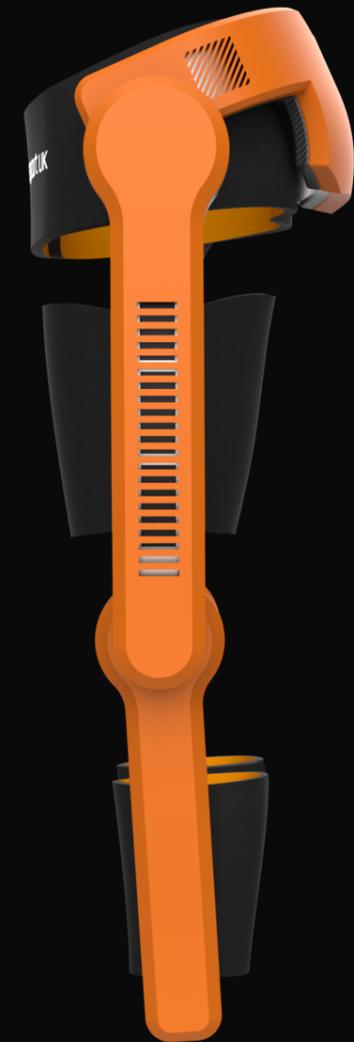
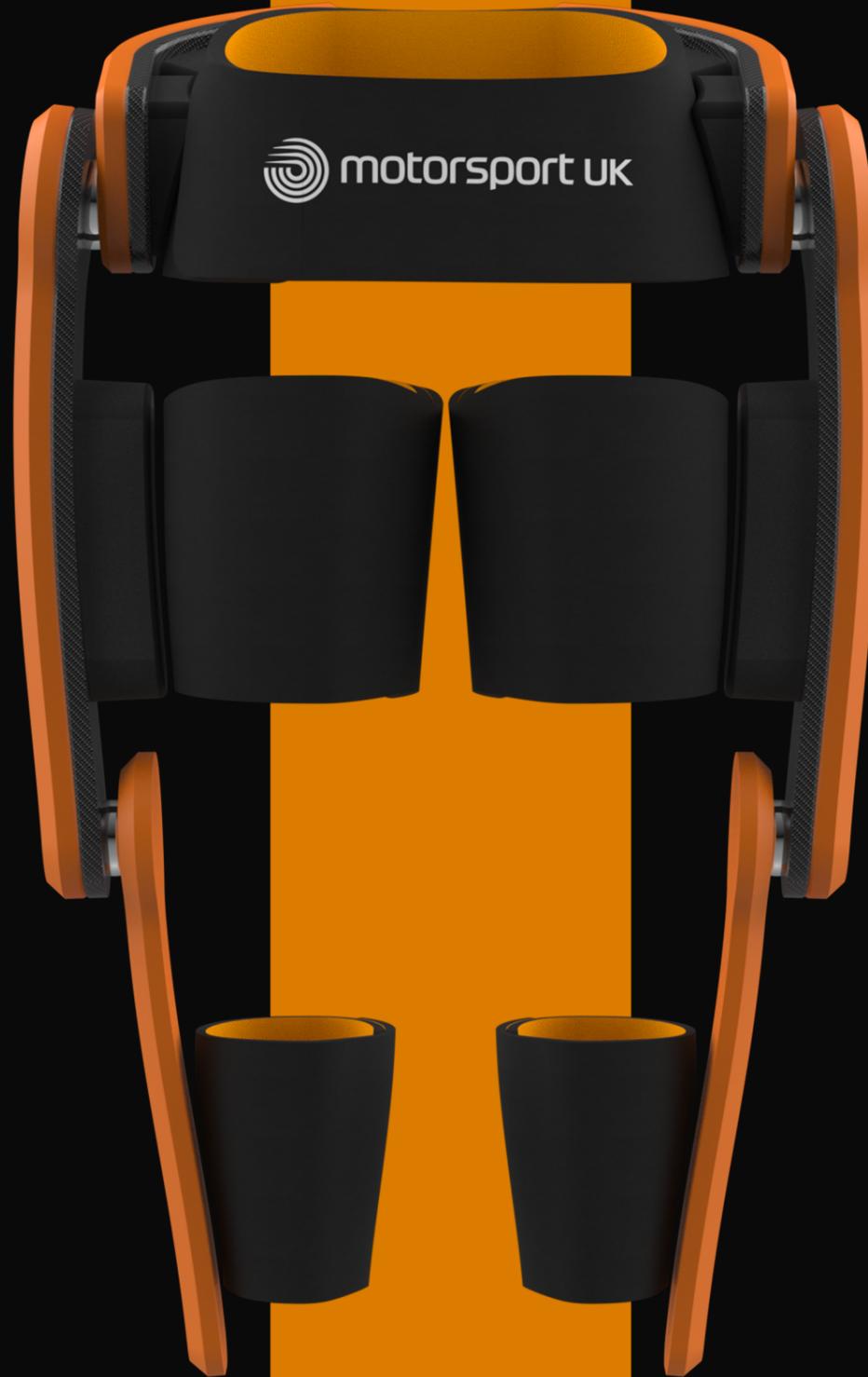
EXO-3

- Visibility
- Passion
- Safety
- Robust



- Responsibility
- Practical
- Ergonomic
- Vibrant

EXO-3



Light weight and durable powder-coated aluminium outer casing

Stiff mild steel chassis and light weight carbon fibre inner casing



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EXO-3

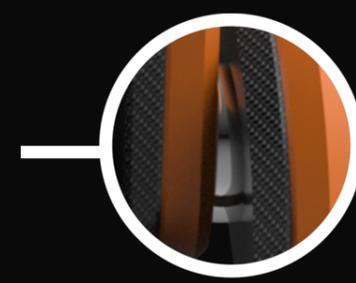
Padding

Guarantees a sympathetic fit



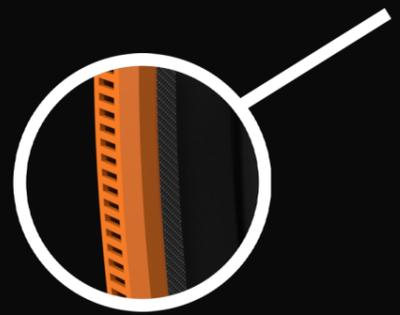
Ball joints

Allow full range of human motion



Ventilation

Provides superior cooling and reliability



Velcro wraps

Ensure a close and comfortable fit



EXO-3



1

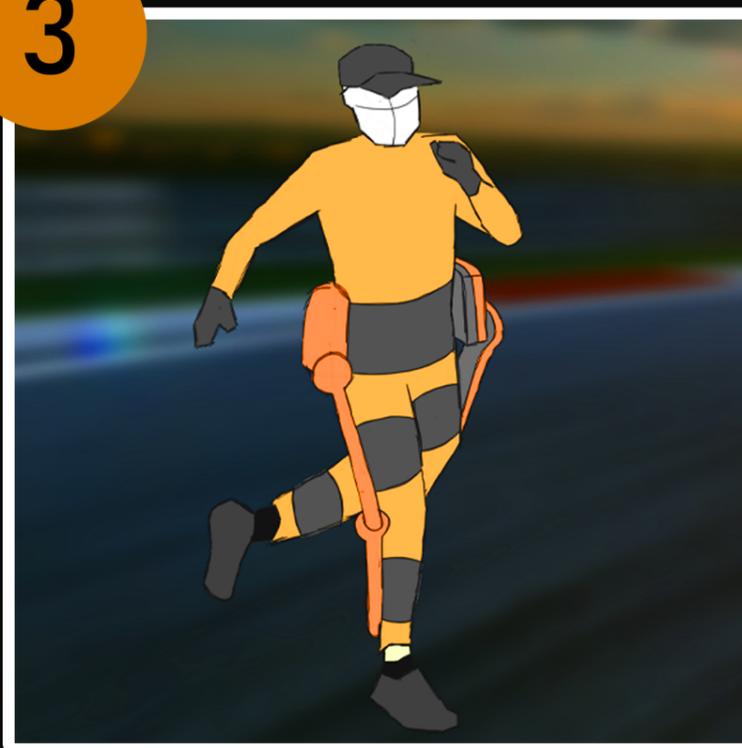
Put on EXO-3



2

Do up wraps

3



Arrive at incident

4

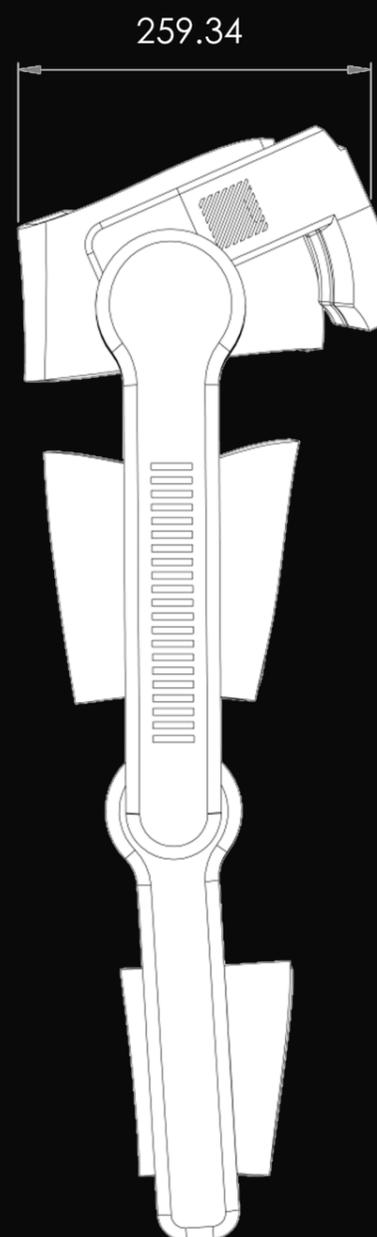
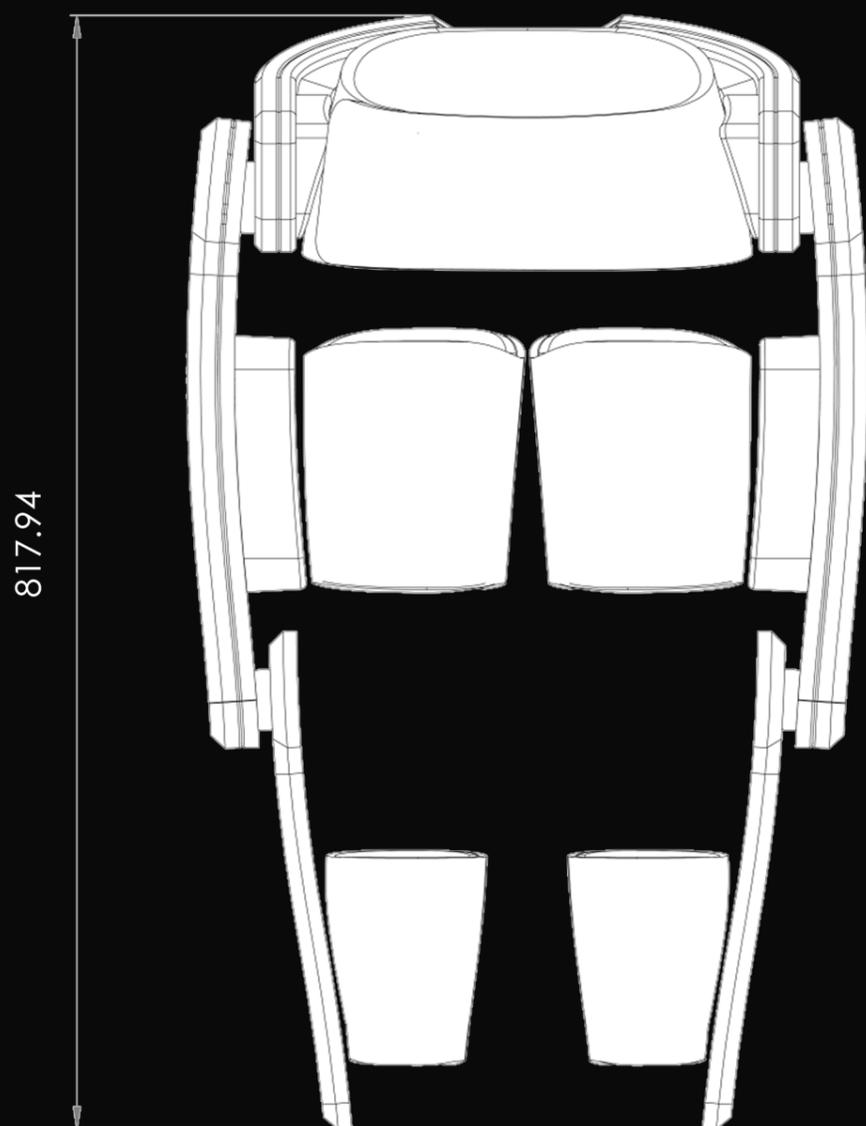
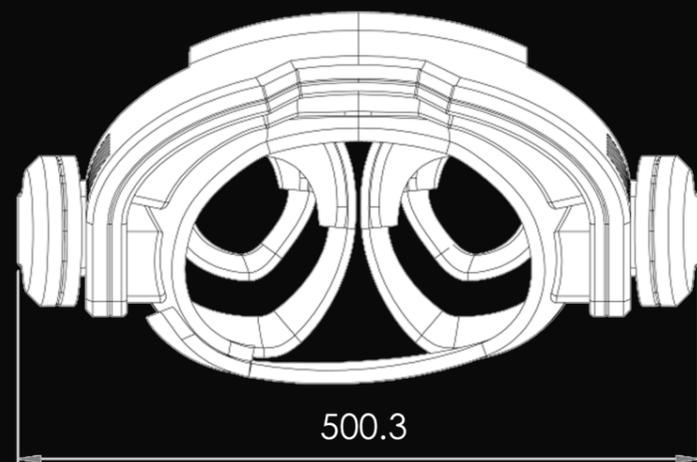


Recover driver



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EXO-3



SPECIFICATIONS:

Max weight (user): 125 kg

Max torque: 130 Nm at each joint

Range of motion: 120°

Operating temperature:
-10°C/90°C

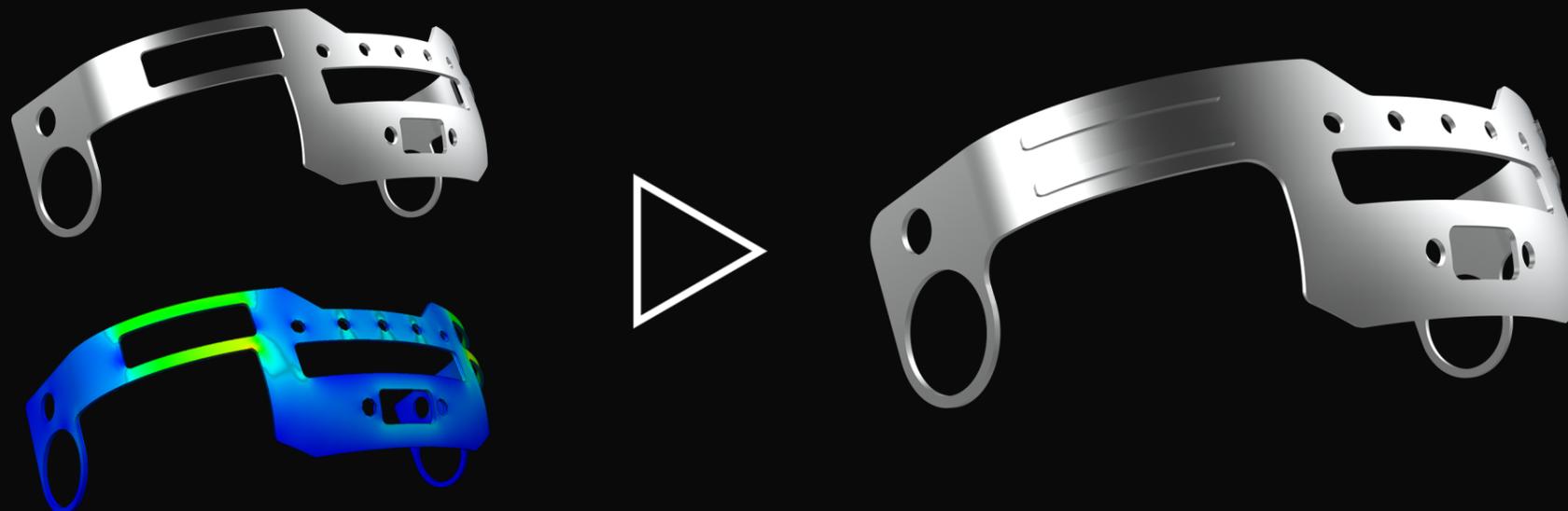
EXO-3

- Stamped Mild steel chassis
- Cast Aluminium external casing
- Forged stainless steel bearings
- High-torque geared stepper motors
- Neoprene body webbing



Analysis driven iterative design

- Revised components based on testing
- Comparison between Stainless and Mild Steel materials
- Material choice based on chassis flex simulation and LCA
- Comprehensive 3 test process
- Weight and Cost comparison
- Mild steel was proven to be the most suitable material



TEST A ▶
Inward flex



△
Fixed pivot

TEST B ◀
Outward flex



△
Fixed pivot

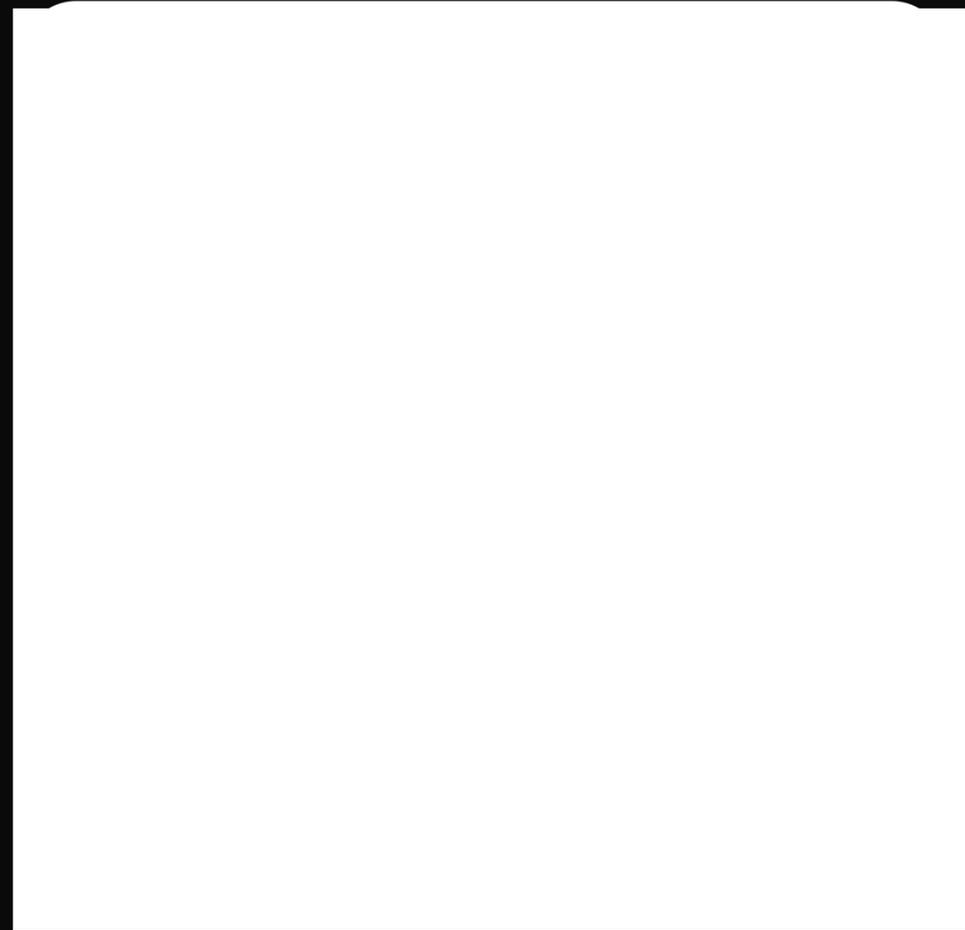
TEST C ↻
Torsional flex



△
Fixed pivot

MARKET OFFER

- Untapped market
- Innovative
- Safety essential
- Prevents injury and reduces liability
- Aids in the repair of tyre barriers
- Reduces vehicle and driver recovery times



Drag to view

