

HUMANETICS DIGITAL APPLICATIONS FOR VEHICLES AND CLOTHING INDUSTRY

From roads to skies, seas to the deep
– built for every vehicle and every body.



Propeller Aircraft
Helicopters, Jet Aircraft



Ships, Service Ships,
Passenger Ships, Submarines

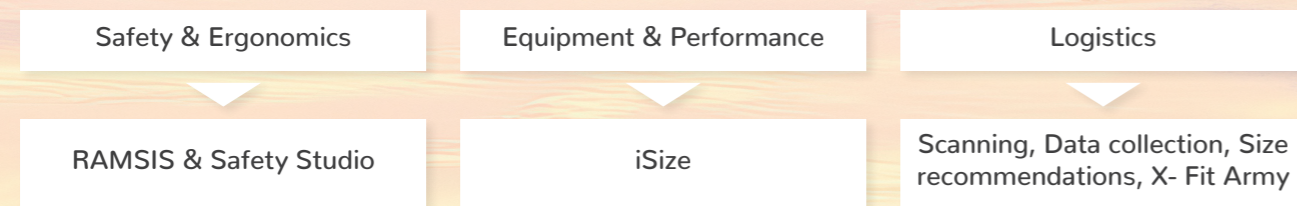


Cars, tractors, Trucks, forklift
trucks, construction machinery,
special vehicles Motorcycles

INTRODUCTION TO HUMANETICS DIGITAL

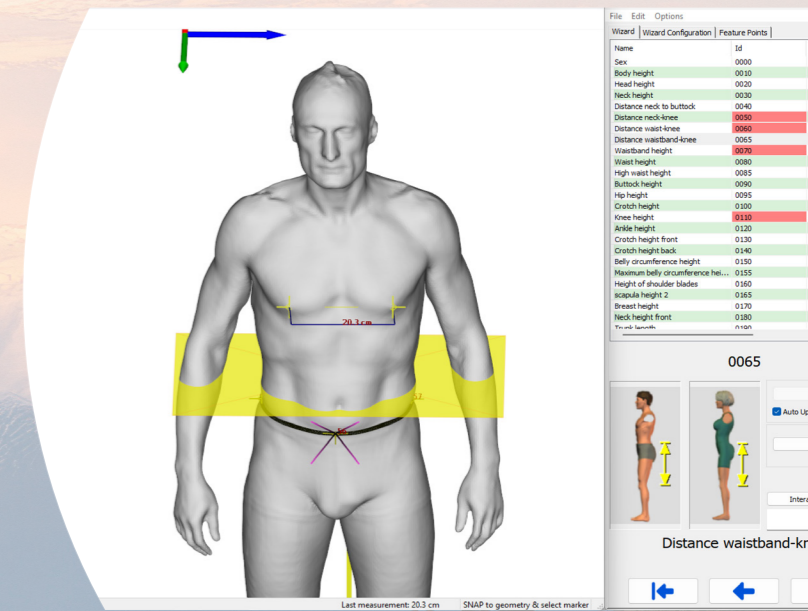
Putting humans at the center of industrial design. Whether it's the ergonomic design of vehicles or the fit of clothing, including clothing logistics to optimize the warehouse. Basis is always the human anthropometry from existing databases or acquired with the latest body scanners technology.

OUR COMPETENCE & PORTFOLIO OF SOLUTIONS

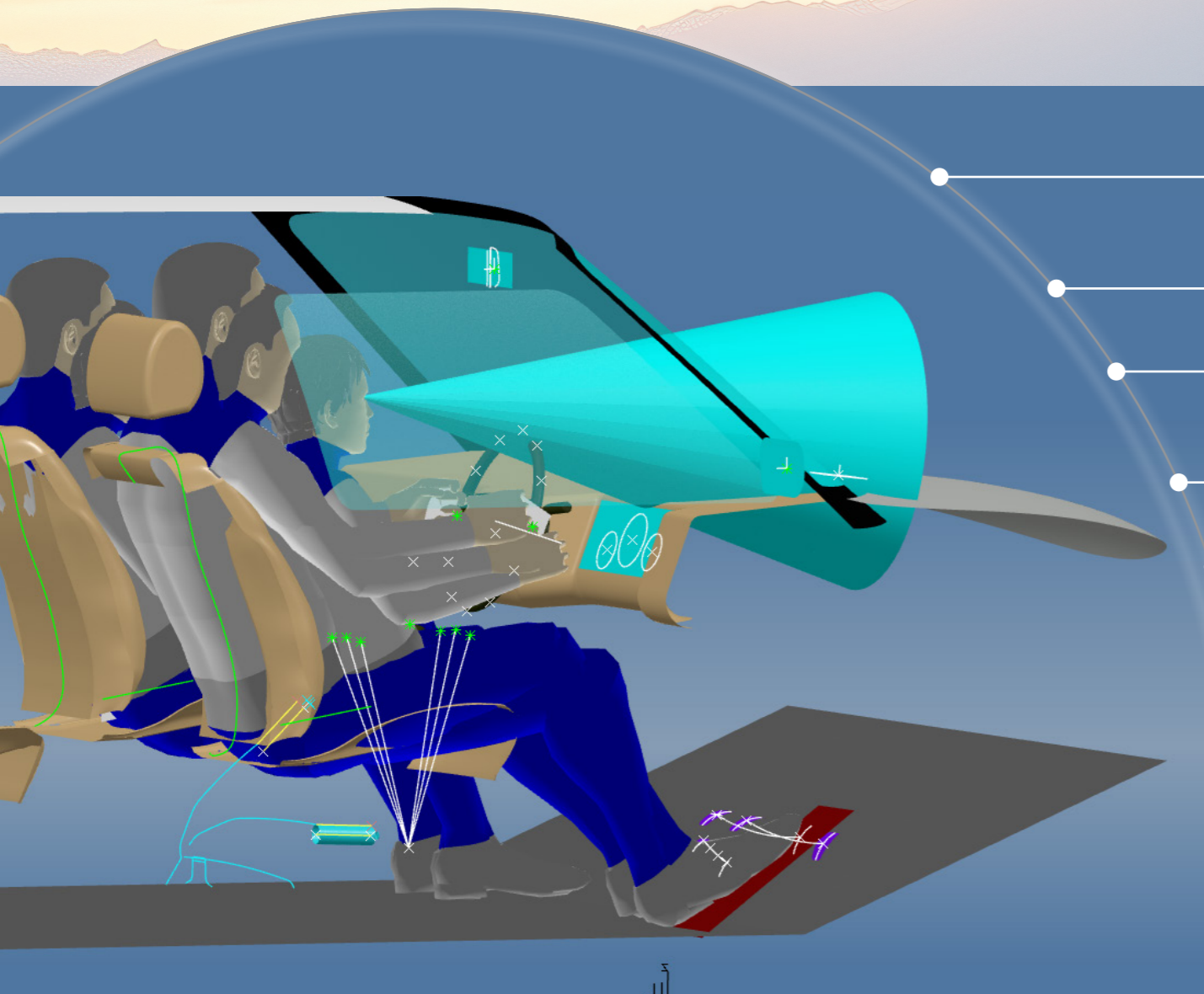


HUMANETICS DIGITAL APPLICATIONS FOR CLOTHING INDUSTRY

Humanetics Digital offers a comprehensive solution for managing and distributing clothing, particularly workwear and uniforms, within organizations. It combines warehouse and measurement systems to ensure accurate sizing and efficient distribution of clothing items. The system aims to provide the right clothing, in the right size, at the right time, improving both comfort and functionality for personnel.



HUMANETICS DIGITAL APPLICATIONS FOR VEHICLES



FREE SPACE:

Display of the space requirements for posture and movement (motion simulation) in the vehicle with and without equipment

COMFORT:

Analysis of discomfort in posture and movement, such as seat width and head or leg posture

VISION/MIRROR VIEW:

Vision simulation, both internal and external, simulation of mirrors – planar and spherical, simulation of cameras, vision norms for trucks (e.g. StVZO §35b, SAE J1750, ECE R46)

BELT ROUTING:

Optimal belt design, also taking equipment into account

FORCE:

Display of posture-contingent force when operating the vehicle, e.g. doors or trunk

INGRESS/EGRESS:

Simulation of climbing on a truck or construction machine, investigation of collisions

REACHABILITY:

testing of the positioning of instruments and controls

COGNITIVE PERCEPTION:

perception of information on instruments

SAFETY:

Restraint systems can be tested at an early stage of development. Dummy CAD-Positioning & safety related analyses

MAINTENANCE: maintenance and repair work, vision and reachability

PLATFORM APPLICATION SUMMARY

Airbus:

Simulation of airline trolleys in the cabin, aircraft maintenance, rapid evacuation in an emergency

German Airforce:

Biomechanical workplace analysis Eurofighter – Typhoon

WTD 41:

RAMSIS Defense – human model with operational equipment

Thyssen Krupp Marine Systems:

Naval diver in the scanner (scanning a combat diver to simulate entering and exiting a submarine)

IABG:

Ergonomics of safety-critical workplaces (RUC 2019)

German Armed Forces and Navy:

Digitalization for tailor-made, personalized uniforms and equipment

Luxembourg Army:

Digitalization in action - Human Solutions optimizes the clothing process for the Luxembourg army

TRUSTED BY RENOWNED INDUSTRY LEADERS

- KNDS
- Die IABG
- WTD 41
- WTD 61
- German Armed Forces
- Daimler Lkw
- MAN
- Luxembourg Army
- Swiss Armed Forces

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