



Atlas Copco



**Your Strategic
EV Assembly Partner**

Global Trends and Opportunities

Closed loop
Autonomous vehicles
Data analytics Automation
Sustainability
IT security Clouding Digitalization Simplicity
Flexibility Electric Vehicles
Integrated solutions
Partnerships

Trends on the factory floor level

Many new models, more models on the same line → flexibility → *scalable* automation



Strategic Partner - Collaborative Solution Development

Datadriven services



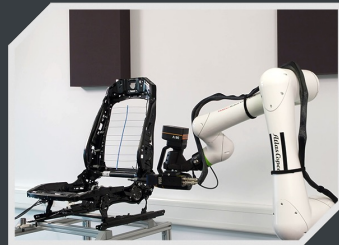
Design



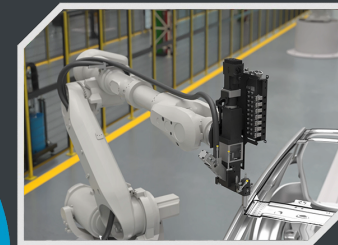
Prototyping



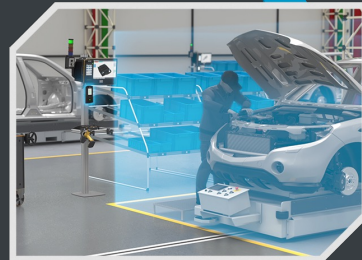
Tier suppliers



BIW



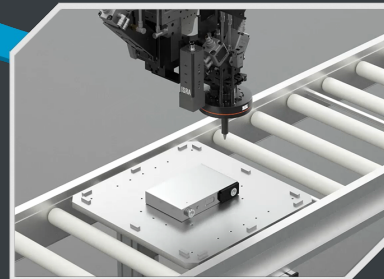
Final Assembly



Paintshop



E-Powertrain



Challenges in EV Battery Market



Cost



Recalls



Capacity



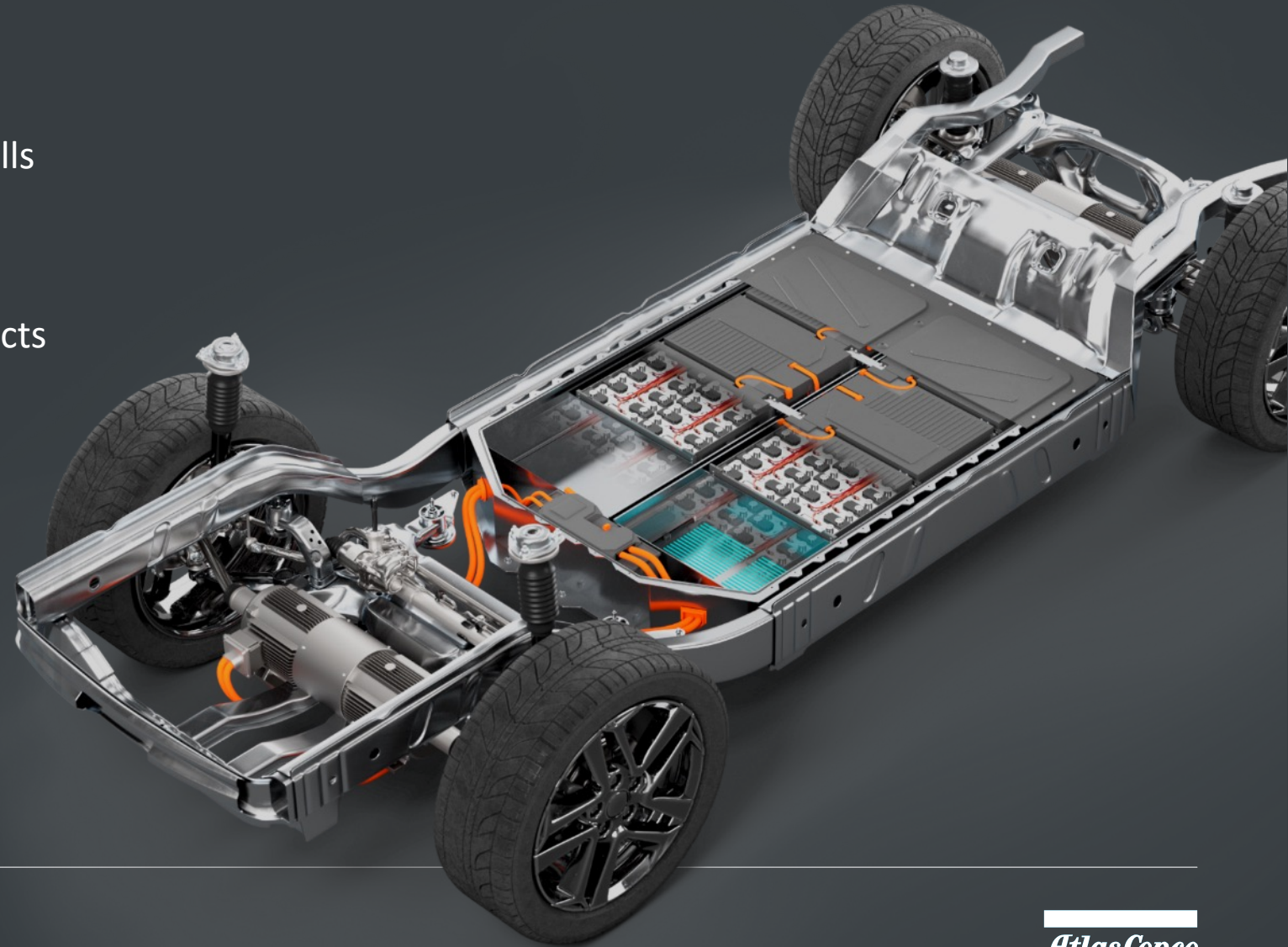
Defects

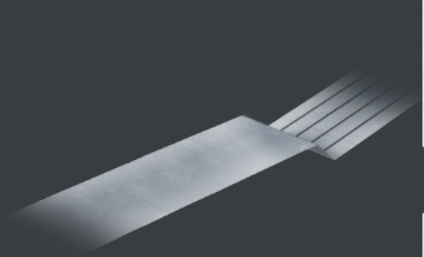


Weight

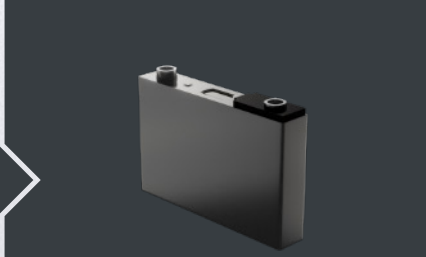


Innovation

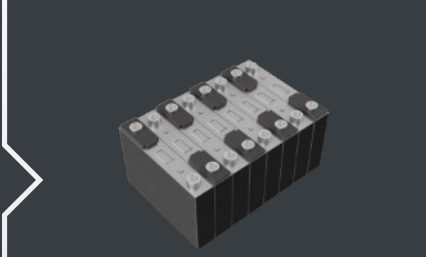




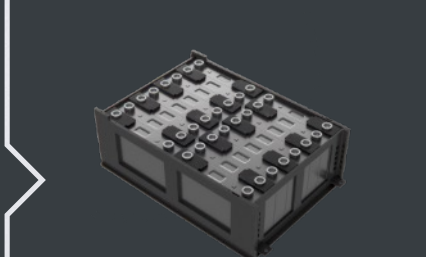
0 Cell component inspection



1 Cell inspection



2 Cell stack assembly



3 Module assembly



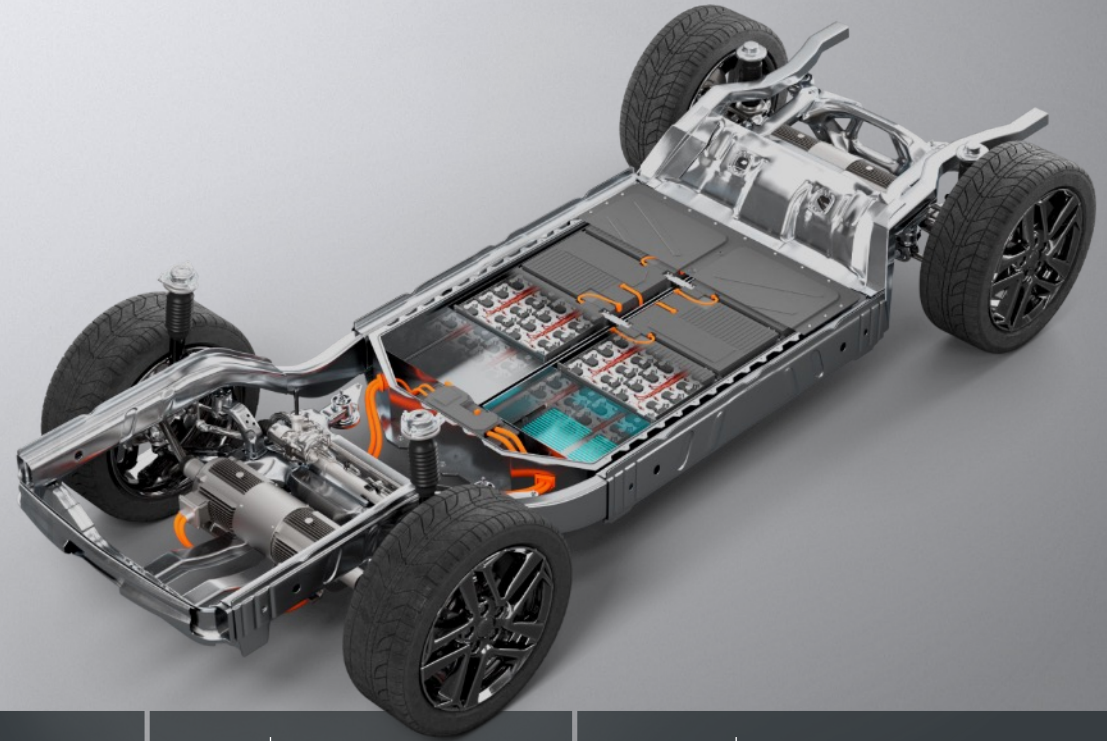
4 Battery tray assembly



5 Thermal management



Data-driven process optimization



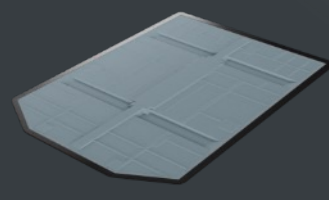
6 Assembly of modules



7 Assembly of electrical components



8 Fire protection



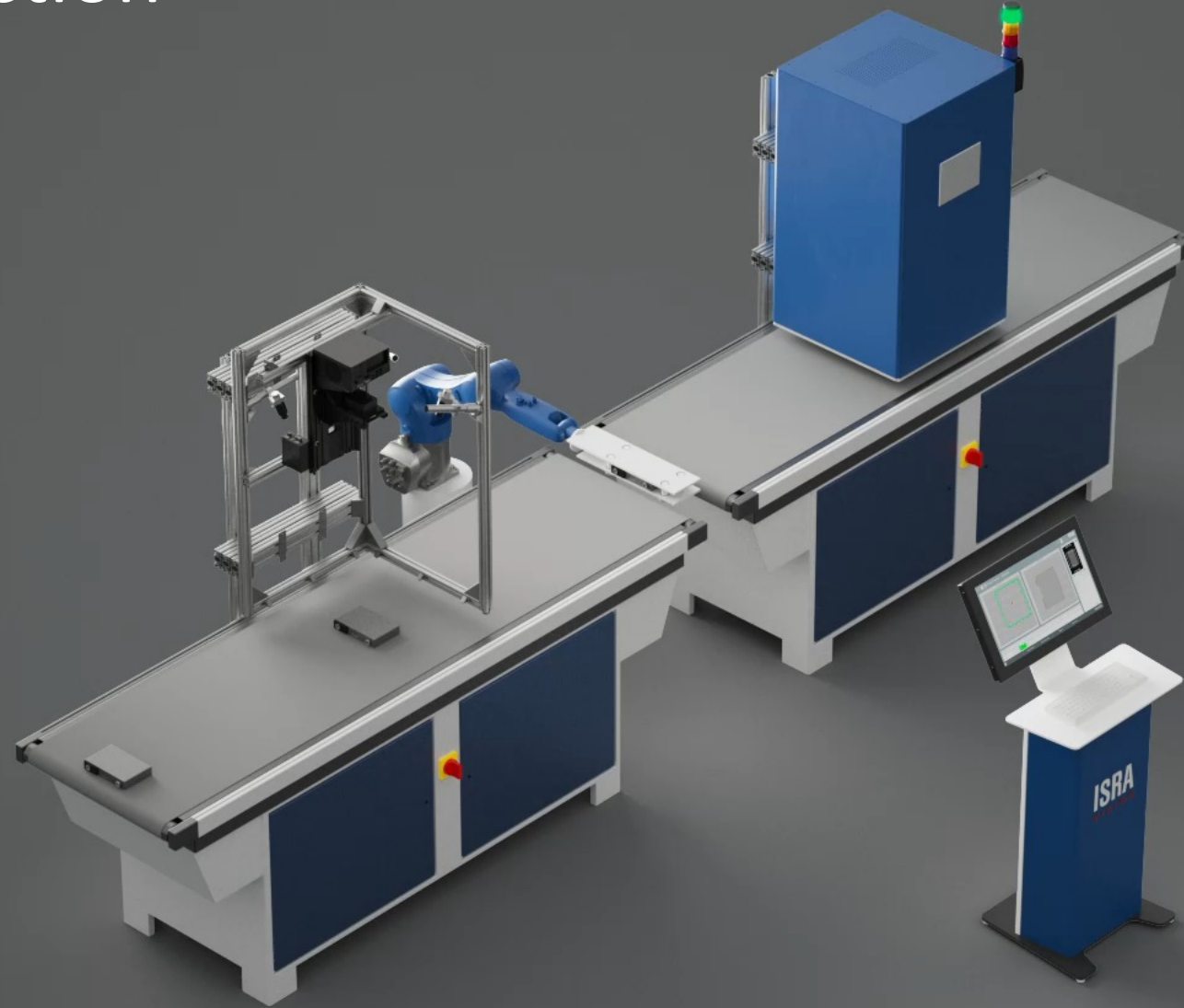
9 Cover sealing



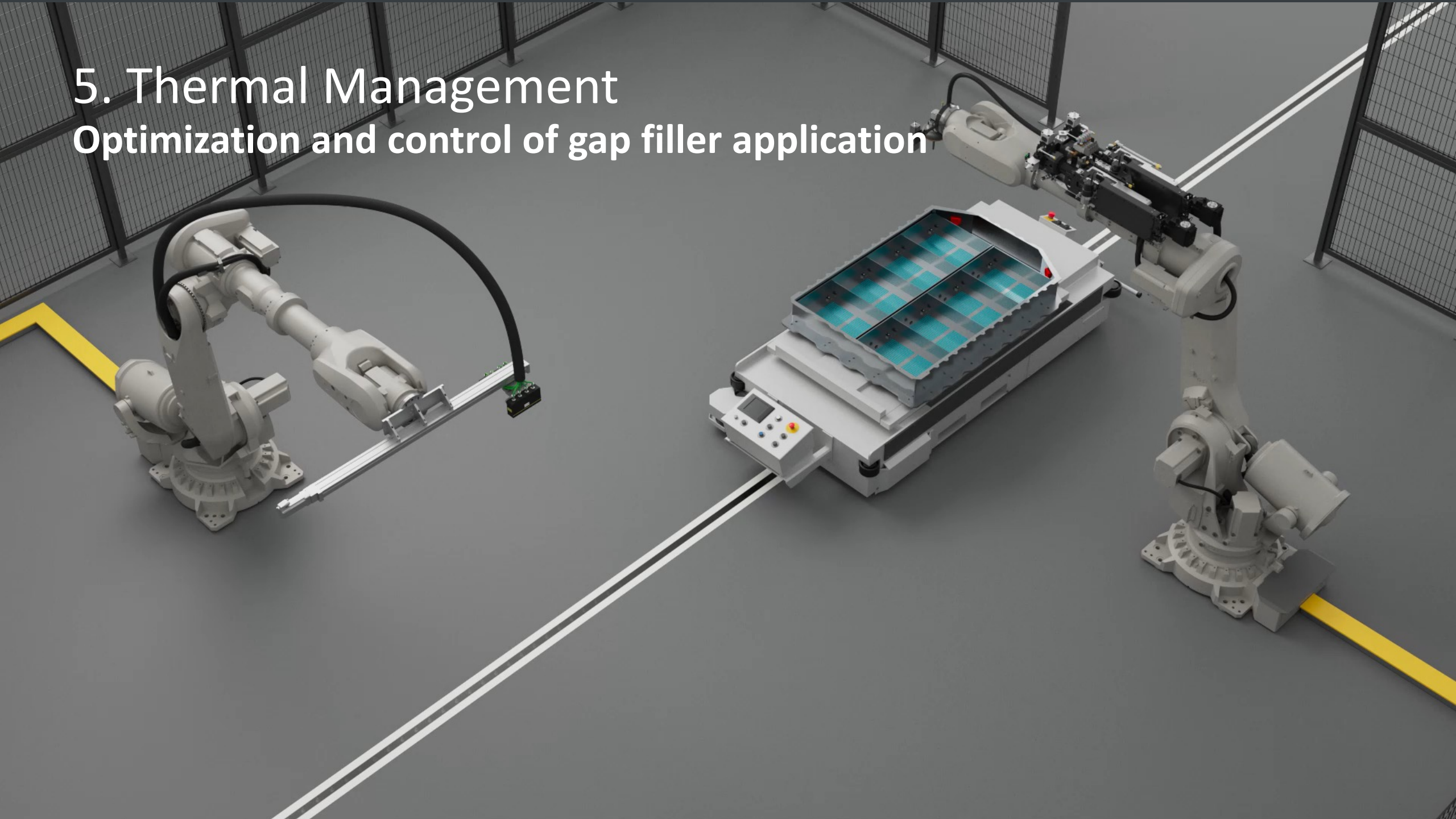
10 Cover-to-tray assembly



1. Cell Inspection Automation

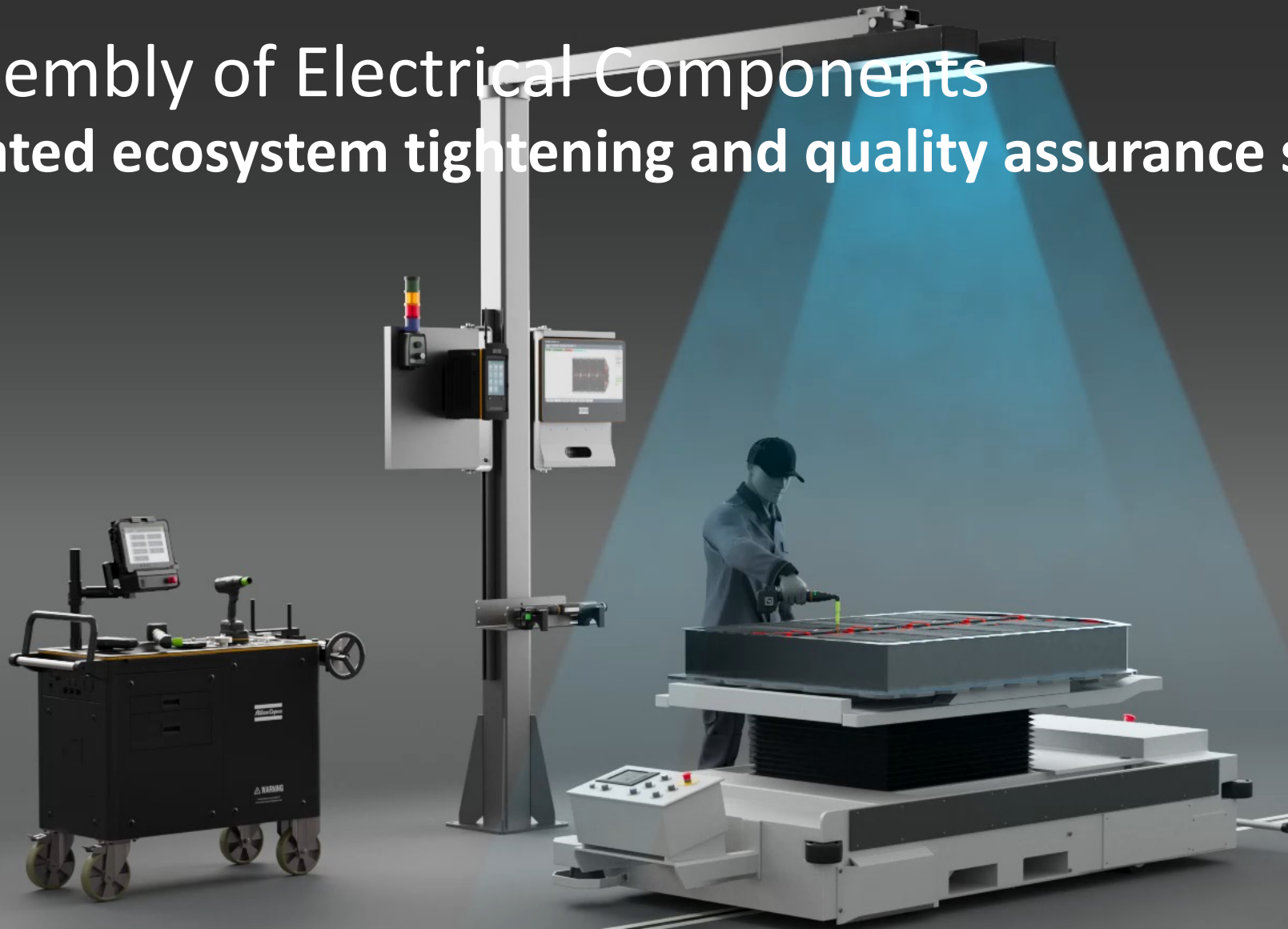


5. Thermal Management Optimization and control of gap filler application



7. Assembly of Electrical Components

Integrated ecosystem tightening and quality assurance systems



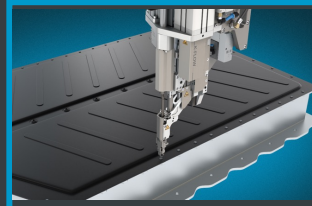
Your Strategic Partner for the Entire Battery Assembly Process

Innovations & process competence

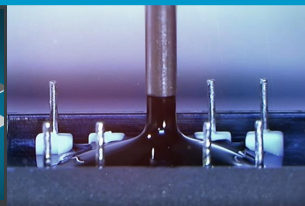
Joining & Dispensing Technologies

Machine Vision Solutions

Tightening & Process Control



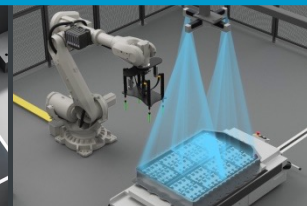
Mechanical joining



Adhesive potting + injection



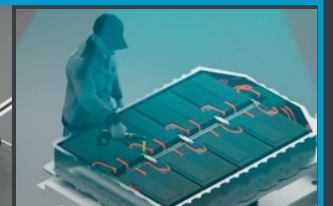
Adhesive bonding + sealing



Machine Vision



Automated tightening



Tightening + Process Control

Electromobility Partnership

Implementation + aftermarket services + data driven process optimization

