

DISCOVER HENKEL'S

BATTERY ENGINEERING CENTER

eMOBILITY
ENABLED BY HENKEL



HENKEL'S BATTERY APPLICATION CENTER

AUTOMATED PRODUCTION-SCALE MATERIAL DISPENSING ON FULL-SCALE BATTERY SYSTEMS



MATERIAL SOLUTIONS

- Thermal Gap Fillers
- Thermally Conductive Adhesives
- Battery Safety Coatings
- Structural Adhesives
- Gasketing Materials
- Potting Materials



CHEMISTRIES

- PU
- Epoxy
- Silicone
- SMP / MS
- Acrylics
- Cold Butyls



APPLICATIONS

Enabled by Atlas Copco technology

- 1-component
- 2-component
- Flat stream



CERTIFICATIONS

- Trusted Information Security Assessment Exchange (TISAX)

1

8 dispensers in turret magazine

2

2 larger application units for flat streaming

3

Six-axis Kuka robot

4

Atlas Copco pumping station

5

Worktable of 2.4 x 1.6 m

HENKEL'S BATTERY TEST CENTER

STATE-OF-THE-ART SIMULATION SOLUTIONS AND FULL-SCALE BATTERY SYSTEM TESTING

Enabling OEMs and battery manufacturers to implement reliable, competitive and sustainable solutions in battery development.



MODELING & SIMULATION

- Digital Twin of batteries
- Material cards
- Structural & thermal performance



CERTIFICATIONS

- Trusted Information Security Assessment Exchange (TISAX)



TESTING CAPABILITIES

- Test rig with full end-of-line test capability
- Fast charging up to 330 kW and discharging back into the grid
- Test rig combined with a climate chamber (*temperature range -40 to +90 °C, with 10 to 95 % relative humidity*)
- Active operation of battery liquid cooling during tests
- Storage and emergency containers for HV batteries
- Assembly and workshop area with electrical experts

