

HIGH-SECURITY BUNKER FOR **PROPAGATION** AND **ABUSE TESTS** ON LARGE-SCALE BATTERIES

cetecom advanced has further strengthened its expertise in the automotive industry by an external test facility for propagation and abuse tests on large-scale batteries and devices, which is almost unique in Europe. By using an external property with connection to the infrastructure of a vehicle test site, it is now possible to carry out tests, which, due to their characteristics, can only be performed in an explosion-proof environment.



FACTS AND FIGURES

A major advantage of this facility is the ability to test particularly large-scale batteries. This test environment of [cetecom advanced](#) is unique in Germany.

A footprint of 240 x 180 cm and a height of 200 cm is available for the application of abuse tests. In the inner testing chamber, batteries with a total mass up to 1.000 kg can be tested.

An exhaust air system with gas cooler/gas scrubber aspirates generated outgassing. The required safety in case of fire is ensured by different extinguishing systems.

THE FOLLOWING TESTS CAN BE PERFORMED IN THIS NEW FACILITY:

- **Propagation**
Trigger method: cell overcharge/cell short-circuit/
heating/nail penetration
- **Short-circuit**
with max. 1 kV/20 kA for 10 s and
a resistance of 2-500 mOhm
- **Crush Test (in preparation)**
for test items up to a size of 200 x 160 x 60 cm and
a force of max. 120 kN (according to ECE R 100/136)

FURTHER CUSTOMER SPECIFIC TESTS, SUCH AS E.G. DEGASIFICATION TESTS, CAN ALSO BE PERFORMED ON REQUEST!

There is sufficient space around the test field for the insertion and the set-up of customer-owned test equipment.

It goes without saying that [cetecom advanced](#) also offers the capabilities for data measurement and video recording already as know from the other [cetecom advanced](#) sites:

- **High-speed data logger**
10 channels up to 100 kS/s assignable with voltage, temperature (max. 2) and current
- **Data logger**
120 channels up to 100 S/s assignable with voltage, temperature and current
- **Video:**
 - HD video recording with max. 25 FPS (mp4 format)
 - IR infrared video up to 30 FPS
 - HS video with up to 4000 f/sec on request
- **DC voltage supply**
 - 0-40 V / 340 A / 5 kW
 - 0-1,5 kV / 30 A / 12 kW (on request)
 - 0-20 V / 30 A
- **BMS/BUS Logging**
 - 4 CAN channels each up to 1 Mbaud
 - 4 Ethernet 10 MBit / 100 MBit / 1 GBit / BroadR Reach

We look forward to receiving your inquiries about our propagation and abuse test facility.

