

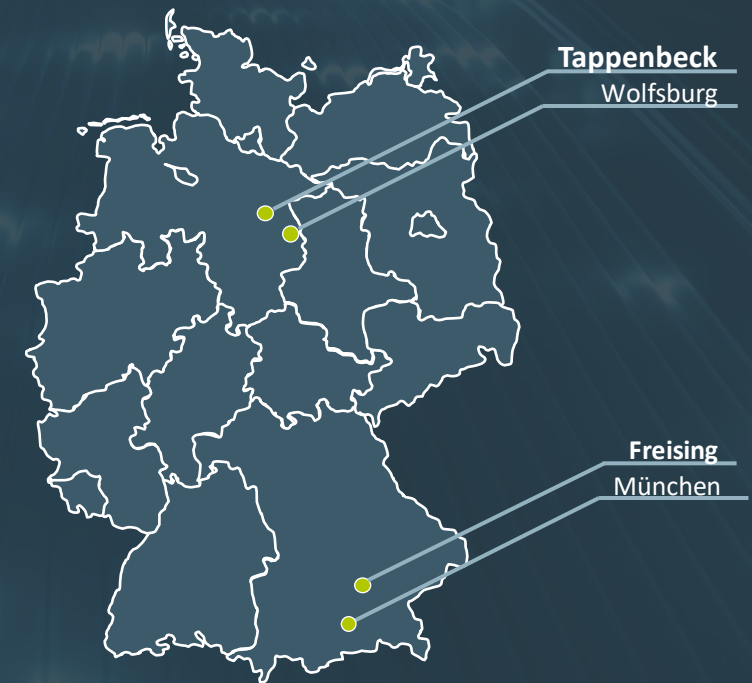
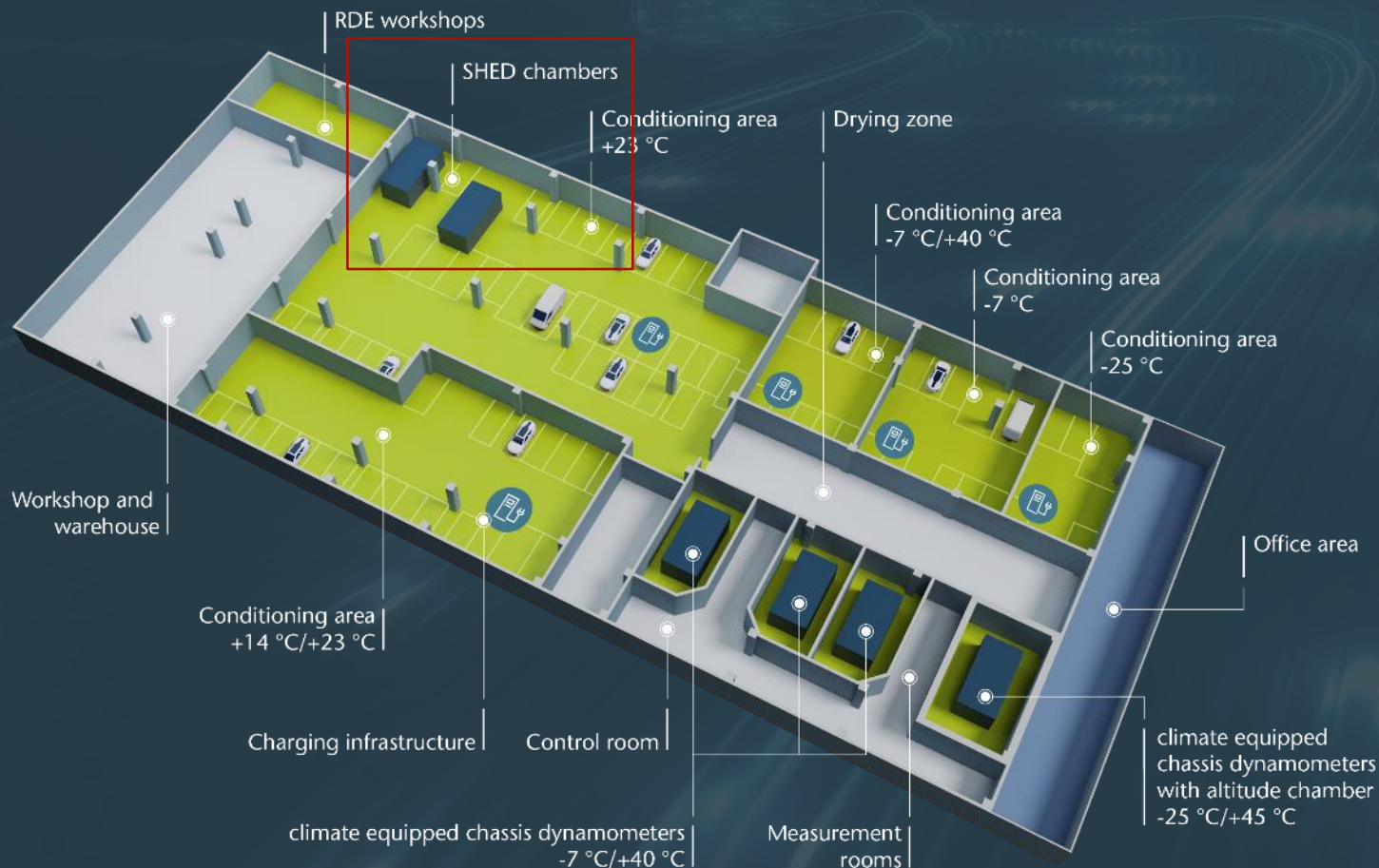
Bertrandt Powertrain Solution Center

Sealed Housing for Evaporative Determination Measurements (SHED)

Christian Eberle | 01.03.2022

The entire world in one place

Whether battery-electric, hybrid or internal combustion engine drive - with the **Bertrandt Powertrain Solution Center** in Wolfsburg or Munich, we offer **validation, certification and real-driving emissions tests for all drive concepts** - in accordance with legal and/or customer-specific requirements.



Two chambers for SHED measurements

Sealed Housing for Evaporative Determination measurements (SHED)



Manufacture/type:

AVL VV/VT-SHED



Dimensions full size:

Inside (W x H x D):

2.200 x 2.700 x 6.600 mm;
about 48 m³ volume



Dimensions magnum:

Inside (W x H x D):

3.500 x 3.600 x 8.700 mm;
about 96 m³ volume



Temperature range:

15 – 60°C



Technical data SHED measurements

Measurements

- Full Size SHED - Dimensions (Inside) (W x H x D): 2200 x 2700 x 6600mm
- Magnum SHED – Dimensions (Inside) (W x H X D): 3500 x3600 x8700mm
- Measurement component : THC

Temperature range

- Temperature chamber: test operation 15 - 45 °C, bake-out phase max. 60 °C
- Temperature control accuracy ± 0.5 °C
- Temperature dynamics : 0.5 -1°C/ min (between 20 -40 °C)

Volume

- Full Size SHED volume: about 48 m³
- Magnum Shed volume: about 96 m³

AVL VV/VT-SHED attachment

- Used to determine gaseous ab: Diurnal & Hot Soak fuel emissions from motor vehicles or parts thereof, according to legal requirements (e.g. EPA Title 40 Part 80 and Part 86 and EU Regulation 715/2007)
- Temperature chamber for measurement of evaporative emissions / VV/VT-SHED
- Inspection and testing of all kinds of vehicles (e.g. automobiles, motorcycles, scooters, etc.) but also off-road equipment (lawn mowers, chainsaws, etc.)
- In special cases: Testing of tank superstructures, individual components or modules
- The included application package covers with its ready-to-use configurations as well as the subsequent data processing and evaluation routines the following currently valid legal test procedures and standards Test Procedure (ECE R83, Annex 7, Type IV Test)

Test sequences & standard

- Diurnal Test Procedure (EPA CFR 40 §86.133-96)
- Hot Soak Test (EPA CFR 40 §86.138-96)
- ORVR - Refueling Test Procedure (EPA CFR 40 §86.150-98)
- DBLT - Diurnal Breathing Loss Test (EPA CFR 40 §86.133-90; Brazil)
- Bleed Emission Test Procedure (Passive SHED)
- EPA CFR 40 §1066 Subpart J (referring to EPA §86)
- CARB - CCR 13 § 1976 (referring to EPA §86)
- CHINA Beijing 6 (referring to EPA §86)
- INDIA (referring to ECE R83 - Type IV Test)
- JAPAN JASIC 11-3-49 §8f (referring to ECE R83, Type IV Test)

You can find more information on our website

→ Your request by email:

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→ <https://www.bertrandt.com/bpsc/>

- technical specifications
- all solutions and services
- background information

