

# Bertrandt Powertrain Solution Center

Research. Validation. Homologation.



## WE VALIDATE THE POWERTRAIN CONCEPTS OF THE FUTURE!

The automotive industry is facing a pivotal transformation – CO<sub>2</sub> emissions and nitrogen oxides and particulates are currently intense focal points.

To reduce these overall, it is important to meet new emission legislation worldwide, but this also requires the establishment of various powertrain types.

The Bertrandt Powertrain Solution Center provide neutral and manufacturer-independent solutions for validating powertrain concepts of the future.

The priorities of the Bertrandt Powertrain Solution Center are validation, certification and homologation of vehicles.



Capacity bottlenecks



Global legislative requirements



Political and economic uncertainties



Cost pressure



Search for reliable partners



## YOUR PARTNER FOR VALIDATION AND HOMOLOGATION OF POWERTRAIN SYSTEMS

### VALIDATION AND HOMOLOGATION

#### Drive systems with various fuels for combustion engines

Gasoline | diesel | natural gas | hydrogen | specialty fuels

#### Alternative drive systems

Hybrid | BEV | FCEV

### LOCATIONS



Munich



Wolfsburg

### OUR SOLUTIONS FOR YOU



Type testing



Emission measurements



Standardized procedures



Customer specific procedures



CUSTOMIZED SOLUTION



#### 2 ALL-WHEEL CHASSIS DYNAMOMETERS WITH ALTITUDE CHAMBER

- 550 kW nominal capacity
- Altitude simulation of up to 5,000 meters
- Temperature range from -25 °C to +45 °C
- Velocities up to 300 km/h
- Sunlight simulation

#### 160 PARKING SPACES

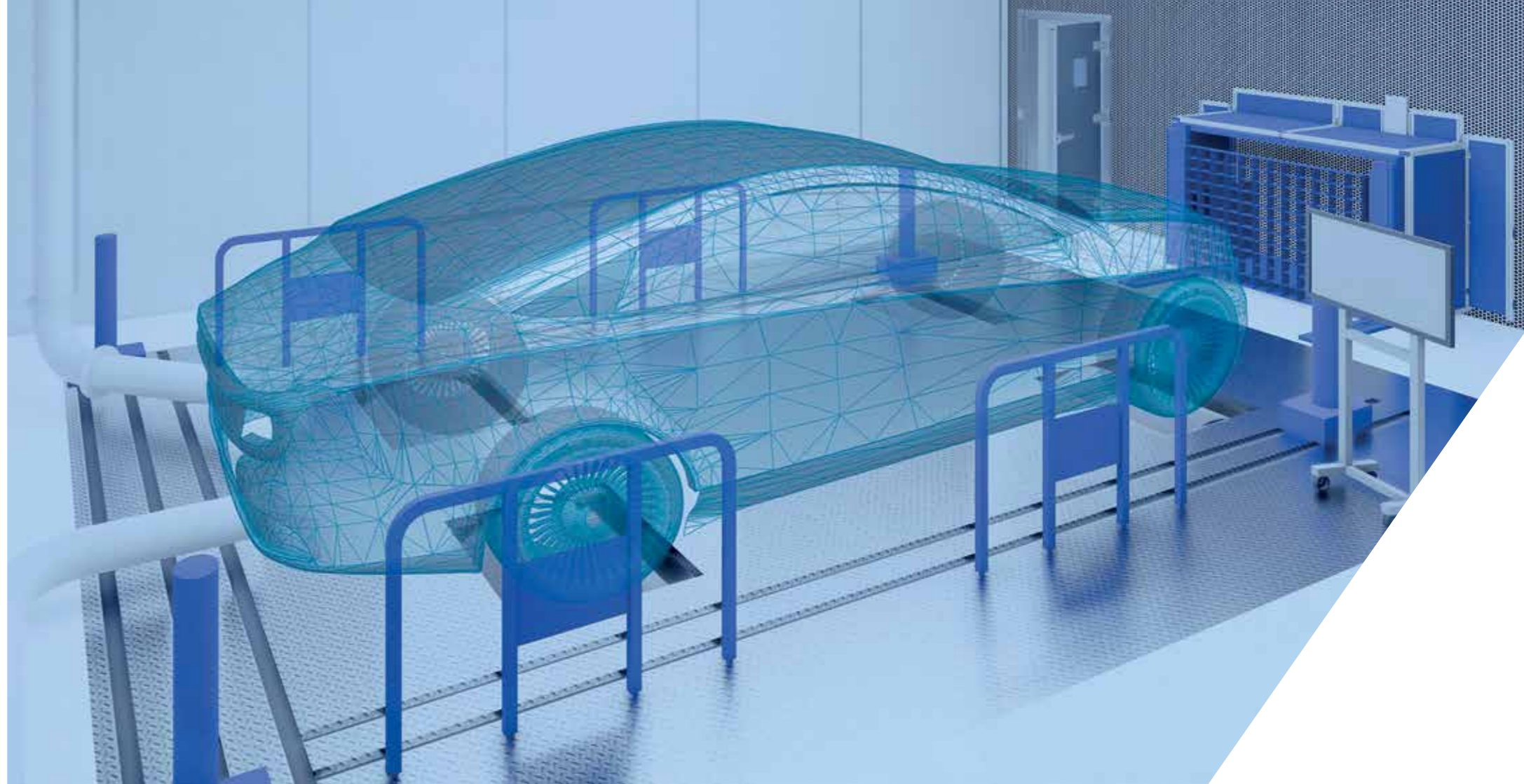
- Conditioning options for temperatures ranging from -25 °C to +40 °C

#### 6 ALL-WHEEL CLIMATE EQUIPPED CHASSIS DYNAMOMETERS

- 360 kW nominal capacity per dynamometer
- Temperature range from -7 °C to +40 °C
- Velocities of up to 250 km/h

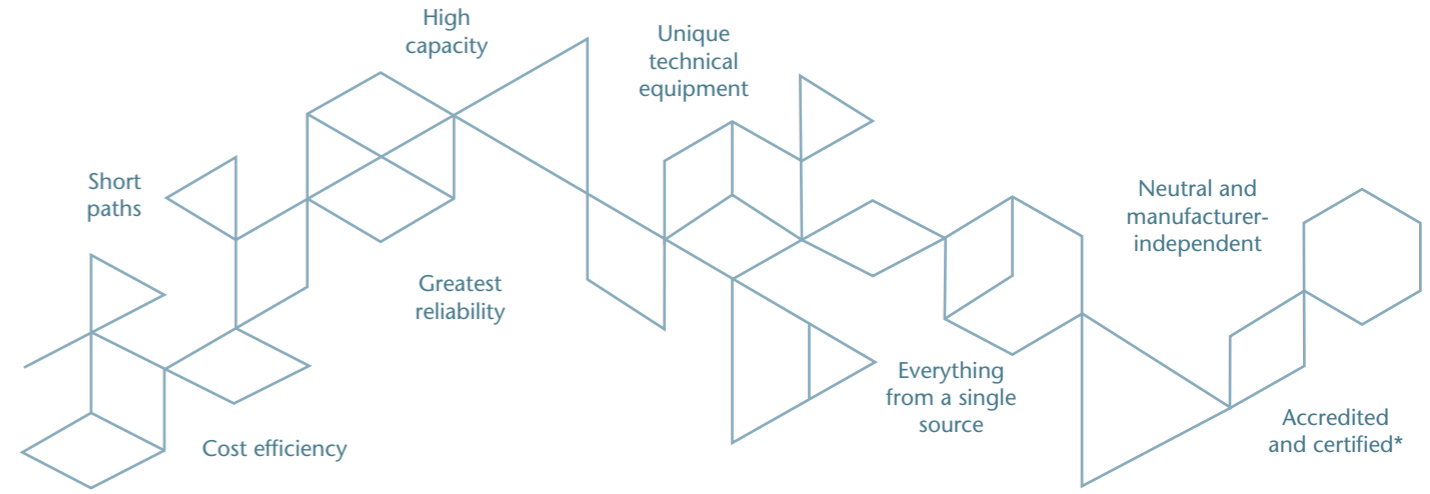
#### TWO CHAMBERS FOR SHED MEASUREMENTS

- 1 x 50 m<sup>3</sup> / 1 x 80 m<sup>3</sup>





YOUR ADVANTAGES



\*Seeking accreditation according to ISO 17025

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