

YOUR PARTNER FOR









TESTING OF ELECTRICAL MACHINES AND AXLES

The very special properties of the electric drive train create complex testing challenges and require the engineers' specific know-how as well as powerful electric machine test rigs. PTS-Prüftechnik accompanies its partners with e-testing services from the first concept through to series production. Competence and technology - our basis for the continuous improvement of the electric drive train:

- Application measurements (Thermal protection, derating maps)
- Use of universal frequency converters for engine characterisation
- NVH measurements (acoustic & with structure-borne sound sensors)
- Efficiency measurements using a power analyzer
- Drag torque studies

- Wheelset testing with early damage detection
- Lifetime and reliability tests (L02, L03, etc.)
- Maturity level assurance

Nominal power: 800 kW / axle

max. torque: 9,000 Nm / axle

Speed: up to 25,000 rpm

Performance range: max. 1,000 kW

Voltage range: up to 1,000 V

Current range: 0 - 2,400 A

independent temperature control of the coolant and air circulation from

-50 ° C to + 120 ° C

TOGETHER INTO THE CO2-NEUTRAL FUTURE!

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