

# 100 kW & 220 kW Electric Motor Test Bed

- Electric motor test beds facilitate complete development, testing, verification and validation environment for electric drives
- 800V, 600A, 150/220 kW E-motor test beds to test all vehicle types
- Performance and Characterization Test as per AIS 041 and ECE R85 and in particular,
  - Reliability, durability and overload capacity
  - Dynamic behavior and dynamic measurements
  - Evaluation of torque speed characteristics of electric motors, torque analysis
  - Power and efficiency maps of electric motors and converters/Motor Controller
  - Cold start performance measurement
  - Testing of regenerative braking
  - Blocking tests
  - Thermal Characteristics
  - Overload Capacity



Coolant Conditioner



Power Meter



## 150 kW Specifications

- **Rated Power: 150 kW**
- **Rated Torque: 400 Nm**
- **Max Speed: 15000 RPM**
- **Speed Range for rated performance: 4000 to 8000 RPM**
- **Overload Factor: 1.2 (Max 60 Sec)**
- **160 kW-Battery Emulator/DC Power supply: 800V/600A With Environment Chamber: -40°C to + 180°C, 10% to 95% RH, 1500L Capacity**

## 220 kW Specifications

- **Rated Power: 220 kW**
- **Rated Torque: 500 Nm**
- **Max Speed: 12000 RPM**
- **Speed Range for rated performance: 3000 to 8000 RPM**
- **Overload Factor: 1.2 (Max 60 Sec)**
- **250 kW-Battery Emulator/DC Power supply: 800V/600A With Environment Chamber: -40°C to + 180°C, 10% to 95% RH, 1500L Capacity**