

## Customer Application #22

# Testing Inductive Charging Systems

BRUSA Elektronik AG is a technology leader for all electronic and mechanical components of the electric powertrain. Since its founding in 1985, BRUSA has played a key role in shaping the global breakthrough of electromobility.

Today's charging technology is practical, fully automatic and inductive.

With the series launch of the world's first inductive charging system, BRUSA Elektronik AG has proven its position as a technology leader for electromobility.

The charging system is approved for operation in the EU, China, North America and Japan markets.

BRUSA continues its journey to develop and manufacture inductive charging systems with the 2nd generation.

## Simulating Test Cases with Electronic Load

To simplify system integration and to achieve more test variations, a PLI11280 electronic load from Höcherl & Hackl was installed in the luggage compartment of the vehicle.

With the ID.4 RollingLab, various test cases can be carried out under real conditions for the further development of the ICS2 (Inductive Charging System Generation 2).

The main focus is on optimizing the energy transfer between the floor panel and the vehicle panel with up to 11 kW input power.

Further test cases are FOD (foreign object detection), LOD (live object detection) and positioning system under real vehicle conditions.



