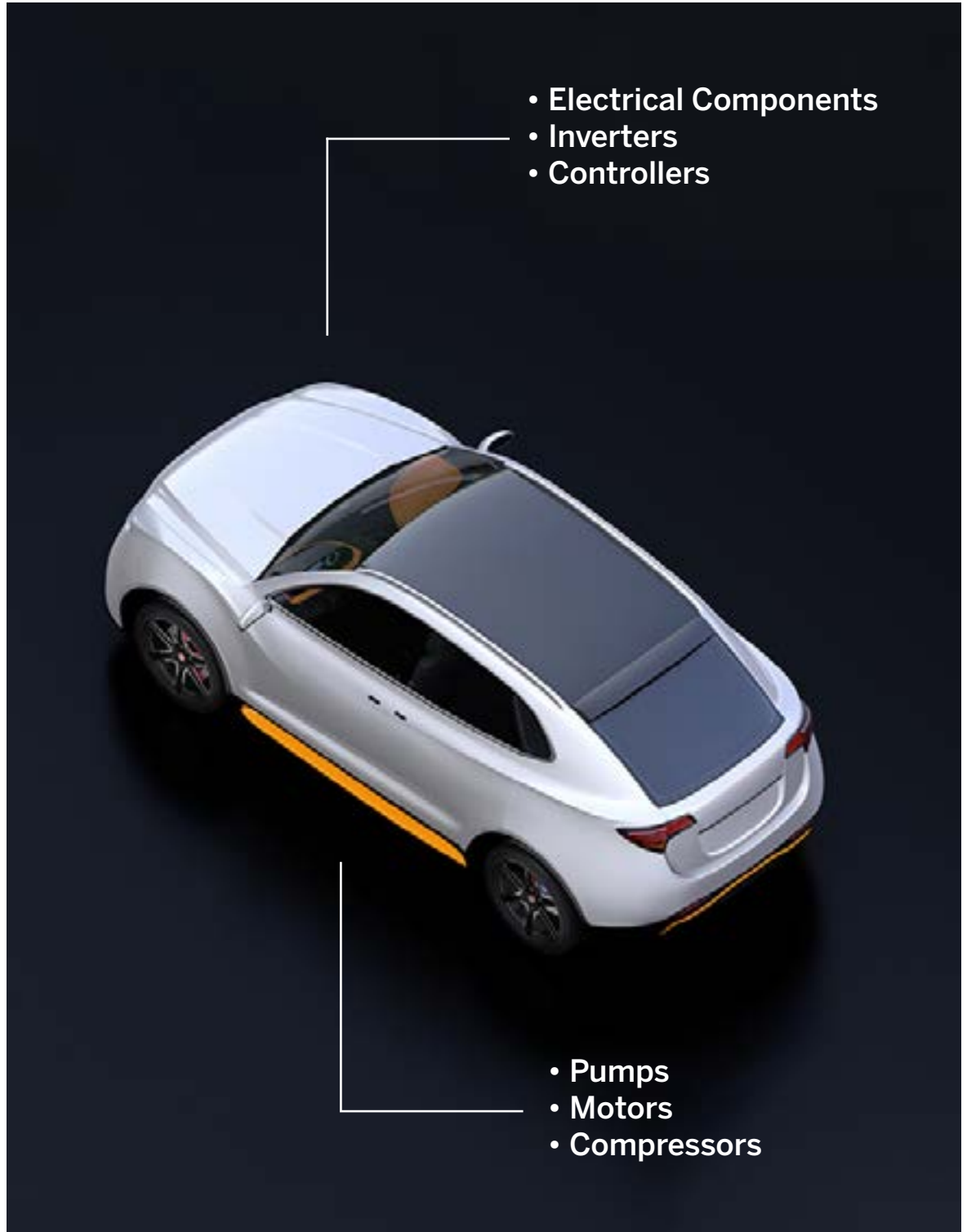


E.V. TEST SYSTEMS

E.V. Components Test Systems



Electric Vehicle (E.V.) Components Test Systems

ATS Overview

ATS has a lifetime of experience automating the production and test of vehicle components. As the technology advances from conventional to hybrid to fully electric vehicles, our capabilities continually evolve to keep pace. Our engineers and software developers use advanced design tools and extensive resources in order to develop custom instrumentation and PC-based data acquisition systems. Our Designers are trained to be able to solve the most demanding test applications. We will work with our customers through all aspects of the design process in order to ensure that the resulting equipment meets or exceeds expectations.

In addition to experience testing traditional vehicle sub components which transfer over to electric such as

- Small horsepower motors (Window lift motors, wiper motors)
- Vehicle interiors (Seats, doors, cockpits, headliners)
- Vehicle electronics (Switches, lights, key fobs, radio, cluster etc.)

ATS can offer test equipment solutions for the following E.V. related components

New Opportunities

OPPORTUNITIES AND NEW REQUIREMENTS FOR NEXT GENERATION ARCHITECTURES

- Cooling Fan
- Transmission actuators
- Fuel heater, fuel pump
- AC fans
- Lighting (fog lamps, headlamps, etc.)
- Heated feature (PTC, heated screen, seats, etc.)
- Chassis (EPAS, CCD)
- 110V-220V Inverter

12V load migration to 48V

- Cost benefit due to downsized DCDC
- Reduced electrical losses
- Cable downsizing

Electrification of auxiliaries and actuators

- New demand-controlled electrified actuators
- Electrification of mechanical PT actuators

- Electric AC compressor
- EPAS for heavy vehicles
- Vacuum less brake system
- Electric supercharger
- Oil/water pump
- Valve actuation

New feature content

- Enhanced vehicle attributes

- e-ARC
- Rear wheel steering
- AFS
- Torque vectoring

ATS Test Capabilities can be applied to these emerging technologies



Knowledge to go the distance

At ATS, we believe that leveraging insights and best practices between all the markets we serve creates a unique multi-industry synergy. Through this synergy, ATS has become a leader in assembly and test manufacturing systems for producing advanced electric vehicle components

Contact ATS directly for custom or product specific applications beyond the scope of this document.

© 2019 ATS, and other designated trademarks used are a trademark of ATS Automation Tooling Systems Inc. All rights reserved. Please note, technical specifications are subject to change. Any third party trademarks referenced herein are the property of their respective owners.
August 2019



Tel: 1 (905)-850-8600
Fax: 1 (905)-850-9336
Send e-mail to: atstest@atsautomation.com
or visit our web site at: www.atsautomation.com