



Test Solutions For Chassis Dyno

The Road in Your Lab.

Find The Optimal Chassis Dyno Solution For Your Needs

Chassis testing plays a crucial role in the development and validation of modern vehicles. They help car manufacturers to optimize performance, reliability and compliance while reducing development time and costs, ensuring technological standards and advances. AVL has been developing and distributing chassis dynamometers for decades, well known under the name AVL ROADSIM.

The accumulated experience in technological know-how and a highly specialized team allows you to rely on a global network to set up your test environment and secure your pole position at the forefront of mobility development - whether traditional, electrical or beyond.



- AVL ROADSIM 25" INLINE 1x1 Cycle
- AVL ROADSIM 25" INLINE 1x1 ATV



- AVL ROADSIM 48" 4x2
- AVL ROADSIM 48" 4x4



- AVL ROADSIM HD Truck 2x1
- AVL ROADSIM HD Truck 2x2

- AVL ROADSIM HD Truck 4x2
- AVL ROADSIM HD Truck 4x4

Standard Solutions For Your Applications

Explore our chassis dyno solutions for EMC and NVH Testing – available for all kind of vehicles and proven in over 150 successful installations supporting your vehicle development process.

EMC TESTING

AVL ROADSIM EMC™ is designed for ultra-low EMC emissions and provides highest EMC immunity of up to 400 V/m supporting all vehicle-related EMC legislations such as CISPR 12, CISPR 36, GBT 18387 and ECE-R10. With our powerful design we support dynamic EMC testing for all kinds of vehicles.

In combination with our automation system AVL PUMA 2™ Vehicle Testing we support automatized EMC testing, boosting the testing efficiency especially for EV-testing. Furthermore, we provide an EV charging solution that is compatible to EMC testing.

AVL ROADSIM™ EMC has over 50 successful installations at major OEMs, Tier 1s and laboratories in Europe, North America and Asia proving the performance of our system and the satisfaction of our customers.



NVH TESTING

With over 100 installations at major OEMs, Tier 1s and laboratories in Europe, North America, and Asia we have continuously refined our NVH chassis dynamometer to provide the best NVH development platform available at the market with cutting edge acoustic characteristics available for all kinds of vehicles.

With a focus on passenger cars and light trucks, we offer two scalable system lines that either emphasize peak acoustic performance (AVL ROADSIM NVH PRE-MIUM) or compact and dynamic design fulfilling also CFR1066 (AVL ROADSIM NVH COMPACT).

Explore Our Latest Solutions for Your Use Cases

RANGE CERTIFICATION ON A CHASSIS DYNO

Our holistic solution for EV range testing and certification in the lab can be integrated into AVL's chassis dynamometers or into customer's soak area.

The provided charger for efficient charging/discharging is connected to either AVL VECON 2™ / PUMA 2™ Vehicle Testing for stand-alone operation of single charging devices, or it can be connected to AVL Charge Monitor allowing to control and monitor the charging devices. In combination with AVL Lab Management™ Software Solution and AVL iGEM 2™ for Vehicle Testing, we provide a holistic solution for BEV and OVC-(F)HEV range testing and certification.



VEHICLE CHASSIS DYNO MODERNIZATION

Investment in new hardware is costly and also time-consuming. It is therefore often worthwhile to evaluate existing systems and devices for lifetime extension. This is where our service offer comes into play.

Chassis Dyno experts visit your company and prepare a feasibility study, on the basis of which you can decide whether modernizing existing systems might be more worthwhile than investing in new hardware. Even just by replacing individual components of the electronics or control system, we can turn your Chassis Dyno Senior into a state-of-the-art testbed for maximum measurement accuracy and legal compliance.



Why Partner With Us?

- **Reliable Solutions and Insights**

Leverage our automotive expertise and deep knowledge in the mobility sector and beyond to gain reliable solutions and valuable insights for the development and validation on overall vehicles-level.

- **Holistic Testing Approach**

Our comprehensive approach to the development of test systems for vehicle testing covers all relevant aspects beyond the chassis dyno itself, ensuring comprehensive and reliable results for your endeavors.

- **Cost Efficiency**

Optimize your testing processes, enhance efficiency, and make informed decisions to reduce overall development costs with our cost-efficient solutions tailored to your needs. Explore for example our modernization services.

- **Cutting-Edge Testing Technology**

Stay ahead of the competition with our state-of-the-art testing systems, methodologies, and software. Leverage the latest advancements to navigate the ever-evolving mobility landscape.

- **Industry Insights and Guidance**

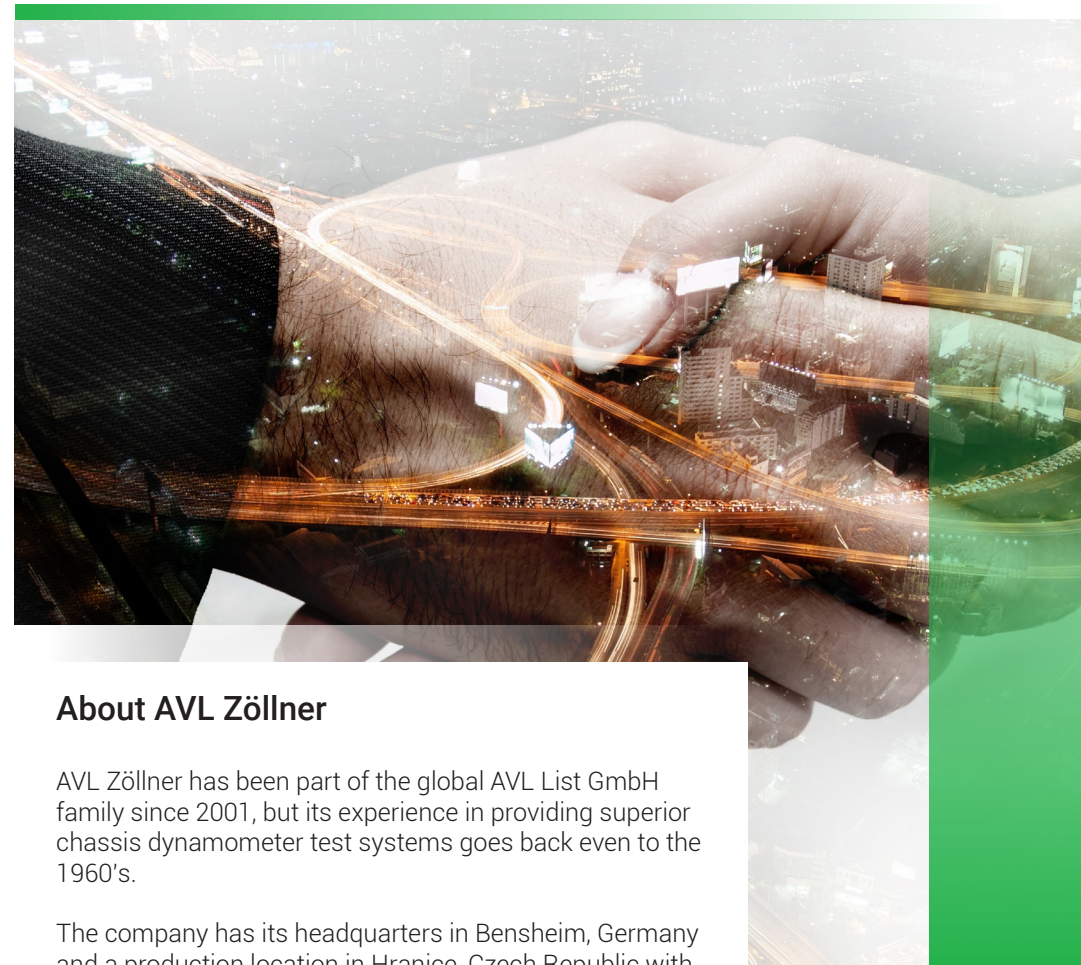
Stay competitive with our deep understanding of emerging trends, regulations, and technologies. Benefit from valuable insights and consulting to make informed decisions.

- **Global Reach, Local Expertise**

Benefit from our global presence and local network of vehicle testing experts. We provide local support and expertise wherever you operate.

- **Long-Term Partnership**

We are committed to building long-term, trusted partnerships. You are warmly invited to collaborate closely with our experts and receive tailored solutions and support throughout your testing and development journey.



About AVL Zöllner

AVL Zöllner has been part of the global AVL List GmbH family since 2001, but its experience in providing superior chassis dynamometer test systems goes back even to the 1960's.

The company has its headquarters in Bensheim, Germany and a production location in Hranice, Czech Republic with a total of 300 employees. AVL Zöllner's ROADSIM™ family consists of worldclass chassis dynamometers for a wide range of test units, applications and use cases.

Reimagining Motion

For a greener, safer, better world of mobility.

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