

Railway Vehicle Testing

The VUZ testing laboratory (TL) is one of the most modern and sought-after laboratories in the field of rolling stock testing and research, while taking pride in its long tradition. VUZ TL has been accredited by the Czech Institute for Accreditation since March 31, 1995 according to ČSN EN ISO/IEC 17025.

The satisfied and regular customers of our laboratory include the world's largest rolling stock manufacturers, such as Alstom, Siemens, Škoda Transportation, CRRC, PESA, Stadler and others.

Most of the offered tests can be carried out not only in the VUZ Test Centre Velim, where the conditions are optimal for the implementation, but also on the Czech mainlines. VUZ has experience in testing vehicles with various types of drives, including alternative ones, for example hydrogen drive and batteries.

Within its quality management system, the VUZ testing laboratory has been continuously developing and updating its testing procedures to keep them in line with the strict requirements of the international, European and national standards and interoperability standards.



Technical equipment:

- › State-of-the-art measurement technology
- › Special measuring coach
- › Noise track section complying with TSI NOISE parameters
- › Measuring flat curve R150
- › Rail scale

Portfolio in range of accreditation:

- › Tests of safety against derailment and ride characteristics
- › Traction and energy tests
- › Brake tests and tests of wheel slide protection systems
- › Measurement of acoustic parameters, vibration and illuminance
- › Tests of electric and power supply systems
- › Tests of current collectors
- › Tests of electromagnetic compatibility
- › Thermotechnical tests (HVAC)
- › Test of door systems
- › Strength and fatigue tests of vehicle components and infrastructure elements
- › Defectoscopy

Other services:

- › Functional tests of rail vehicles
- › Expert opinions and assessments
- › We can arrange tests on SŽ (Správa železnic, the Czech national railway infrastructure manager) tracks and ŽSR (Železnice Slovenskej republiky, the Slovak national railway infrastructure manager) tracks.

REFERENCES:

- › Siemens
- › Stadler
- › Škoda Transportation
- › Alstom
- › Hitachi
- › CAF
- › CRRC ZELC
- › CZ LOKO
- › DPOV
- › Greenbrier
- › Hyundai-Rotem & ŠKODA ELECTRIC
- › Končar
- › PESA
- › Tatrvagónka
- › ŽOS Vrútky
- › ŽOS Trnava



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