



VUZ has a large scope of activities. It comprises:

Authorized Activities

- Conformity assessment

Accredited Activities

- Testing
- Certification of products

Expert Activities

Services provided

in Test Centre VUZ Velim

- Railway Test Circuits
- Dynamic Testing Laboratory static and fatigue tests
- Halls for Test Preparation
- All main European power supply system
- ETCS and GSM-R systems
- Training centre

VUZ Authorizations and Accreditations

- Notified Body No. 1714
- Authorized Body No. AO 258
- Authorized Body to perform tests
- Certification Body for product certification No. 3149
- Accredited Testing Laboratory No.1462
- Acknowledgement for rolling stock testing issued by Railway Authority of Federal Republic of Germany
- Acknowledgement for rolling stock testing issued by Railway Authority of Italy
- The legal person authorised by the Ministry of Transport to perform technical examinations and tests of designated technical facilities

VUZ Accredited Testing Laboratory No.1462 Provides tests of rolling stock, their components and railway facilities and offers.

- Running behaviour tests
- Traction, brake and safety tests
- Hygienic tests (dust, toxicity...)
- Tests of electrical and power supply systems
- Electric tests and environment impact tests on communication and signalling facilities and tests of EMC
- Section of Dynamic Test Laboratory pursues dynamic fatigue tests and solidity tests of rolling stock and their components.

The section of Dynamic Test Laboratory has a base in the Test Centre VUZ Velim.

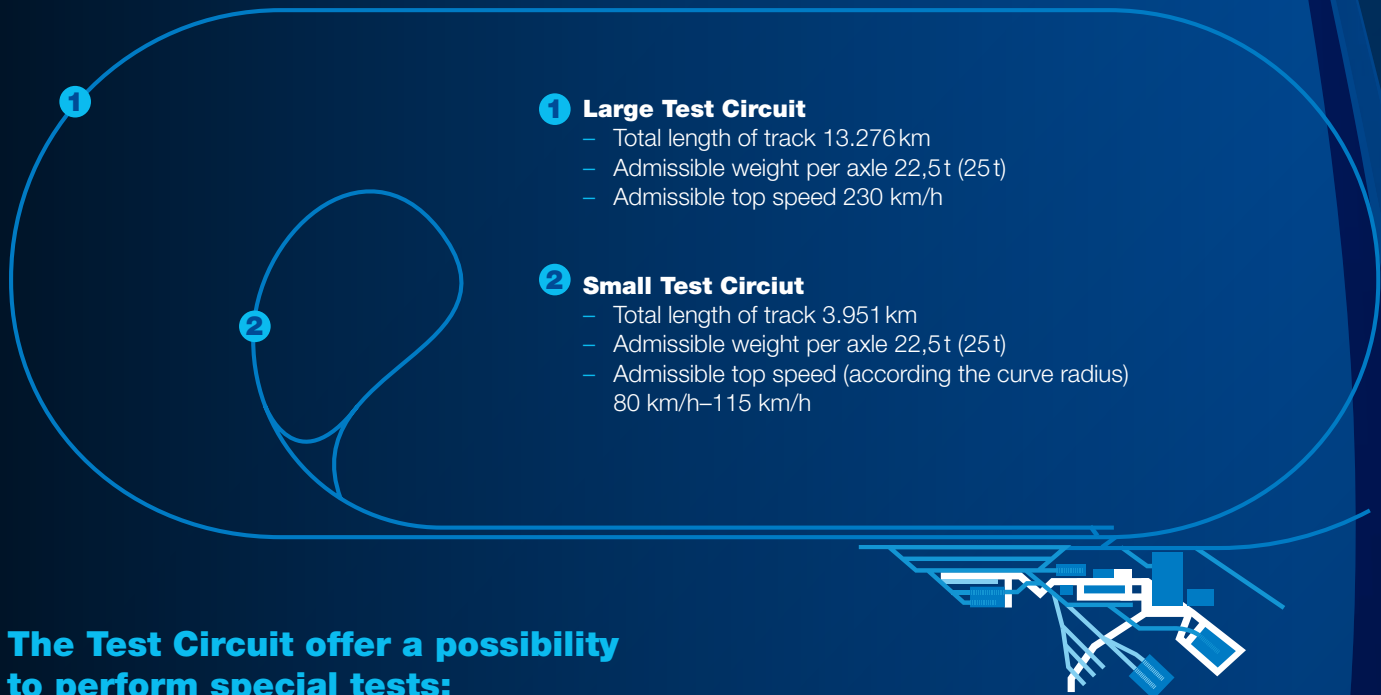
Notified body No. 1714/Autorized body No. 258

Scope of authorization is specified for structural subsystems of European railway system as follows:

- Infrastructure
- Energetic
- Rolling stock
- Control comand and signaling (tracks and onboard)



Accredited Testing Laboratory VUZ realizes tests at own Test Centre Velim and VUZ also provides possibility for companies to perform tests by themselves.



1 Large Test Circuit

- Total length of track 13.276 km
- Admissible weight per axle 22,5t (25t)
- Admissible top speed 230 km/h

2 Small Test Circuit

- Total length of track 3.951 km
- Admissible weight per axle 22,5t (25t)
- Admissible top speed (according the curve radius) 80 km/h-115 km/h

The Test Circuit offer a possibility to perform special tests:

- Noise tests in the section of Large Test Circuit, parameters of which meet the requirements of technical specification of interoperability of the Rolling stock subsystem - noise
- Tests of the European signalling and communication equipment ERTMS (ETCS, GSM-R) – Test Centre is covered by GSM-R signal and the section of Large Test Circuit is equipped by ETCS system
- Possibility of simulation of changes and power supply disturbances
- EMC measuring in the section of Large Test Circuit

Power supply systems of Test Centre VUZ Velim

- DC system 1.5 kV
- DC system 3 kV
- AC system 25 kV, 50 Hz
- AC system 15 kV, 16 2/3 Hz

The Large Test Circuit and the Small Test Circuit could be supplied separately with different combination of power supply.

Halls for tests preparation

Test Centre Velim has got four Halls for preparing tests, which can be used for:

- preparation of the tests, for stationary tests performance, for sensors and specific wheelset instalment, bogies exchange, measuring equipment instalment for electric components, brakes and engines exchange and meaintenance, and can be also used for vehicles clening, or parking tested vehicles in protected area out of testing time etc.