



Rail

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## Rail vehicle testing facility – references

### A selection of the projects we have undertaken in recent years.

#### Technical vehicle running tests according to UIC 518/DIN EN 14363

##### With measuring wheelsets

- Voith Gravita 10BB
- Voith Maxima 40CC
- Laaers car carrier
- Sggrss 6-axle container carrier
- 4-axle wagon for sheet metal
- 4-axle wagon with sliding sides

##### With H load cells

- Talent PEG 3-unit diesel trainset
- Converted passenger car
- Diesel-hydraulic mixed-traffic locomotive
- VT642 2-unit diesel trainset

##### With acceleration measurements

- Flirt, Algeria (in Hungary)
- Flirt Teuto (ride quality measurement)
- EMU Desiro, BDZ (in Bulgaria)
- Flirt SBB (ride quality measurement)
- MAV Talent diesel trainset (in Hungary)
- Variobahn RNV-6 tram, OEG
- Talent BR 4023, ÖBB
- Desiro OSE (in Greece)
- VIRM2 IV NS (in the Netherlands)

#### Brake tests according to EBA test module and GM/RT

- Flirt STA 6-unit trainset (in Switzerland)
- Flirt, Algeria
- Sprinter LightTrain, 4-unit (in the Netherlands)
- BR 423 wheel slide tests
- FLIRT Teuto electric trainset (2- and 5-unit)
- TRAXX F140DE (BR 285)
- TRAXX P160DE (BR 246)
- GTW ARRIVA electric trainset, 2/6 und 2/8
- GTW STI electric trainset, 2/6
- FLIRT NOH electric trainset, 3- and 4-unit
- Desiro DTZ double-deck electric trainset, Zurich URT
- Talent BR 4023, ÖBB
- Desiro TPE diesel trainset
- Sggrss 6-axle container carrier
- Desiro electric trainsets in Great Britain (WCML, HAL, CI 450, FGE)
- Talent diesel trainsets, 3- and 2-unit
- Converted passenger car
- 4-axle flat car
- 4-axle wagon with sliding sides



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#### **Derailment safety tests**

- on distorted, curved measuring track (DIN EN 14363)
  - Sdggmrss 6-axle pocket wagon
  - Laaers car carrier
  - Various bulk material wagons
  - 2 x 6-axle ore wagon unit
  - various road-rail vehicles
- by propelling tests (UIC 530-2)
  - Sgnss container carrier
  - Sgrss container carrier
  - Sdggmrss 6-axle pocket wagon
  - Laaers car carrier
  - Sggrss 6-axle container carrier
- on curved crossing (UIC 510-2)
  - Laaers car carrier
  - various road-rail vehicles

#### **Various tests**

- Stress-strain measurement
  - Voith Gravita 10BB
  - Car carriers
  - Voith Maxima 40CC
  - Container carriers
- Seated comfort measurements on RENFE diesel locomotives
- Slope coefficient and height of rolling pole on various double-deck passenger cars and locomotives
- Static and dynamic strength tests on various double-deck cars and freight cars

- Determining overall torsional hardness on various freight cars
- Static and dynamic tests on various buffers and drawgear
- Tests on crash buffers for tank wagons (UIC 571)
- Component crash tests
- Crash tests on power car front-end structures (EN 15227)

#### **Miscellaneous projects**

- Development and construction of match wagons with various coupling heights (up to 850 mm) for:
  - ICE 3
  - ICT
  - Zurich URT
  - HSP250 power car
- Development and construction of means of transport for unfinished passenger car bodies for:
  - ICE 3
  - ICT
  - Marschbahn

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