



BROCKENBAHN

Brockenbahn

Wernigerode – Brocken



*Waggon
Werkstatt*

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Minimum system requirements

For the add-on, the following requirements should be met for a flawless gaming experience:

- 64bit operating system Win8 or higher
- Dovetail Games Train Simulator Class with installed European Loco & Asset Pack
- Processor 3.3 GHz, QuadCore or similar.
- 8 GB RAM
- Hard disk: 2,5 GB (SSD recommended)

The track and scenarios may work on the 32-bit version of Train Simulator, but have been created and tested throughout with the 64-bit version of Train Simulator.



Informations

The Brockenbahn is a historic narrow-gauge railroad that runs from Wernigerode to the summit of the Brocken. Wernigerode is a charming town at the foot of the Harz Mountains and the starting point of the trip up the Brocken. From there, the Harzquerbahn runs through a picturesque landscape and overcomes a height difference of about 600 meters.



The ride up the Brocken offers passengers breathtaking views of the surrounding landscape, including dense forests, deep valleys and fascinating rock formations. The ride is especially impressive in winter, when the Harz Mountains are covered with a white blanket of snow.



Route Map

BROCKENBAHN (WERNIGERODE - BROCKEN)



WAGGONWERKSTATT

Route description

Located in Saxony-Anhalt, the route begins on the section of the Harzquerbahn in the colorful city on the Harz: Wernigerode. Known for its well-preserved old town with its colorful half-timbered

houses and the imposing Wernigerode Castle. It is a popular tourist destination and offers visitors a picturesque setting as well as a variety of leisure and recreational opportunities amidst the natural beauty of the Harz Mountains.



Wernigerode station with locomotive depot: turntable, locomotive shed, water crane and coal bunker.



The route continues through the Wernigerode town area, past numerous gardens to the Wernigerode Hochschule Harz stop, behind which the train winds through the narrow Kirchstraße like a streetcar.



Via the station Wernigerode Hasserode it goes to the station Steinerne Renne, from here the route goes steeply uphill towards Drei Annen Hohne.





Now the Harzquerbahn meanders a few kilometers through the beautiful forest landscape, through the only tunnel in the Thumenkuhlenthal, via the service station Drängetal to cross trains to the station Drei Annen Hohne.



The station Drei Annen Hohne is located at 585 m above sea level and is the crossing point of the Harzquer - and Brockenbahn. Here we leave the line in the direction of Schierke, while the other section of the line continues to Nordhausen.



The route in Train Simulator

- 32 kilometer track from Wernigerode to the Brocken station at 1125m altitude
- Side track to the wagon hall in Wernigerode (passable)
- Pictured period approx. 2010
- Realistic track construction incl. curve elevation for a pleasant ride over the line
- True to original 11 stations / stops / operating stations
- True to original recreated landscape with many details and extensive vegetation recreation
- Numerous new 3D models
- KS - signal system
- Water cranes, coal bunkers, and diesel filling station for prototypical operation
- Included vehicles:
 - Steam locomotive BR 99.23
 - Packing car 12m
 - Passenger car in 6 window version
 - Passenger car in 7 panorama window version
 - Quick Drive
- 6 challenging scenarios based on original operating situations

Rolling Stock



Steam loco 99.23.-24



Packing car



Passenger car 6 windows



Passenger car 7 windows

The cars are equipped with automatic train closing panels, dynamic numbers, and automatic opening/closing transition platforms. The cars also have passenger views from both ends of the platforms and from the windows.

Steam loco 99.23-24

Technical data:

Manufacturer: LKM Babelsberg

Type: K 57.10

Maximum speed: 40 km/h

Maximum boiler pressure: 14 bar

Year of building: 1954 - 1956

LüP: 12.500 mm

Power: 515 kW

Axle: 1'E1' h2t



Drivers cab



1	Regulator	A / D
2	Trainbrake	Num +/-
3	Control	W/S
4	Sand	X
5	Fire door	F
6	Whistle	B / Space (short / long)
7	Locobrake	` / ß
8	Air pump	Shift Y
9	Light machine	Y
10	Cylinder cocks	C
11	Injector (Water)	Shift I
12	Injector (Steam)	Shift K
13	Blower	N
14	Steam heating	Z
15	Feed pump	K
16	Power unit light	Ctrl. K
17	Cab light	L
18	Instrument lights	I
19	Shunting lights	Ctrl. L
20	Headlights	H / Shift H
	Air valves	Mouse
	Bell	Shift + B

Instructions BR.99.23-24

Lights

The locomotive has cab lights, instrument lights, head signals, and power unit lights. For the function of the lights the switched on alternator is necessary for the power supply. At scenario start this is always switched off.

Brakes

Train brake: The train brake has the following stages: Release, Hold, Apply and Emergency Brake. It is a single-release brake that always returns to the hold position. This allows an optimal adjustment of the pressure in the brake cylinder to hold the speed, e.g. when going downhill, by applying and releasing the brake.

Locomotive brake: This only acts on the locomotive itself and is in the release position by default.

Hand brake: The hand brake is applied by default and must be released before departure.

Whistles:

The locomotive has several short departure whistles as well as longer whistles, which are randomly controlled from several whistles.

Scenarios

The add-on includes the following standard scenarios:

Full steam to the Brocken part 1

Length: 50 minutes

Full steam to the Brocken part 2

Length: 55 minutes

Full steam to the Brocken part 3

Length: 70 minutes

Winter wonderland

Length: 60 minutes

Up in autumn

Length: 60 minutes

On testrun

Length: 65 minutes



Signalbook

The following signal terms can be found on the route:



Hp 0 - Stop



Ks 1 - Drive



Ks 2 - slow speed



Ks 1 (Vorsignal) - expect drive



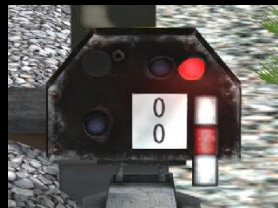
Ks 2 (Vorsignal) - expect stop



Ks 1 Expect drive, from the next signal drive with indicated Speed x10, light flashes



Sh 1 on traffic signal - shunting allowed



Hp 0 - Driving ban



Sh 1 - Driving ban lifted



Bü 4 – Whistle board



Lf 7 – Speed signal



Lf 6 – Speed-Announcement signal



Ra 10 - Shunting stop board



Ne 2 - Pre-signal board



Bü – crossing plate



Ne 3 - Beacon



Ne 4 - Chessboard



Ne 5 – Stop board



Sh 2 - Protective stop



Ra 11 - Wait sign



So 18 – Monitoring signal of the dropout (only optical, the Train Simulator cannot display dropouts)

Further information on signals can be found on the Internet at: www.tf-ausbildung.de

Credits

We would like to thank the following people for their contribution to this project and the good cooperation:

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- Jan Bleiß
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- Thorsten Gosny
- Beta Test-Team

Textures from Textures.com and licensed models from Turbosquid.com were used in the track.

Have fun exploring the virtual Brockenbahn.

The team of the *WaggonWerkstatt*