



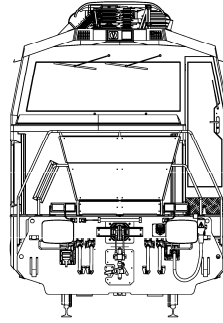
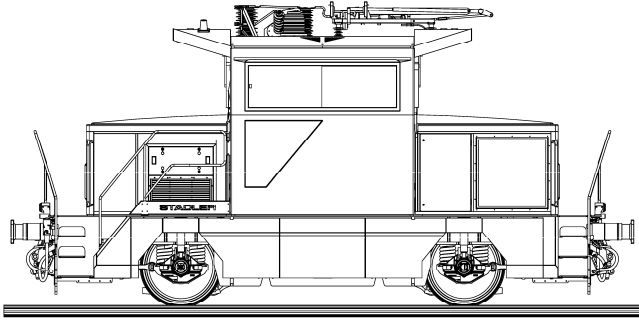
Electric 2-frequency Shunting Locomotive Ee 922 for Swiss Federal Railways (SBB), Switzerland

In December 2007, the Swiss Federal Railways (SBB) ordered a lot of 21 Shunting Locomotives Ee 922. The first of these new Locomotives was delivered according to schedule to the SBB on the 1st of July 2009 for commercial service. The remaining locomotive has to be delivered until the end of 2010 completely.

The Ee 922 is specially designed for shunting-services and also can be used on railway-line operation. It is based on a of Stadler Winterthur AG developed product-family which meets requirements of shunting-services and cargo-conveyance.

The Ee 922 specially features a compact design, high traction-effort and performance as well as an optimal view and ergonomic working-conditions for the operating personal.

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Technical features

- Compact design and the centric placed cabin with a free passageway from one side to the other help to ease and speed-up the working-processes
- Ergonomic and air-conditioned driver's cab featuring optimal view for shunting-services
- Economic power-consumption, long maintenance-intervals and therefore high availability as well as a long life cycle due to electric-drive
- Due to the maximum speed of 100 km/h and the possibility of multiple-unit-control, the locomotive can be used for shunting-services and cargo-conveyance
- Nonwearing electric brake with refeed in the brake-power catenary-line system (recuperation)
- Pneumatic brakes; indirectly for the trailed cars, directly for the locomotive
- Powerful screw-type compressor with an output of 2400 l/min
- Latest generation of vehicle control system including detailed diagnostic features
- In regional and S-Bahn transit approved IGBT-electric-power-converter
- Train protection (optional), prepared for Integra, ZUB 262ct or Eurobalise, Indusi
- Remote radio-control and radio-control in multiple-unit-control (optional)

Vehicle data

Customer	SBB AG Swiss Federal Railways
Gauge	1'435 mm
Catenary supply voltage	15kV / 16.7Hz und 25kV / 50Hz
No. of motors	2
Axle arrangement	Bo
No. of vehicles	21
First year of operation	2009-2010
Length over buffers	8'800 mm
Vehicle width	3'100 mm
Vehicle height	4'306 mm
Tara weight	40 t / 44 t (convertible)
Wheel diameter, new	1'100 mm
Wheelbase	4'000 mm
Max. power at wheel rim	750 kW
Starting effort	120 kN
Max. speed	100 km/h (designed for 120 km/h)
Loading gauge	UIC 505-1 AB-EBV U3
PA-Line	1000 V / 800 A