



## 108 t Production Locomotive

For LKAB in Sweden, presently one of the biggest iron-ore producer in the world, Schalker Eisenhütte developed and delivered 108t trolley wire locomotives. These locomotives transporting the whole extraction of the KUJ 1365 level, operating day and night, 365 days per year.

The locomotive is equipped with one end-drivers cab, for single-directional operation. Each wheelset is powered by a 225 kW AC traction motor.

The IGBT controlled traction motors allow the individual control of each wheelset. A fully-fledged four-quadrant controller enables the locomotive for electro-dynamic service braking until standstill. The use of the pneumatic brake is reduced to just taking over emergency stopping. Parking functions of the locomotive are realized by means of the pneumatic spring-loaded brake. Even stopping and starting again at ascending slope is possible by operation of the electro-dynamic brake.

A highly efficient slip- and slide protection system guarantees the optimal use of the available traction forces, depending on the friction coefficient wheel-rail.

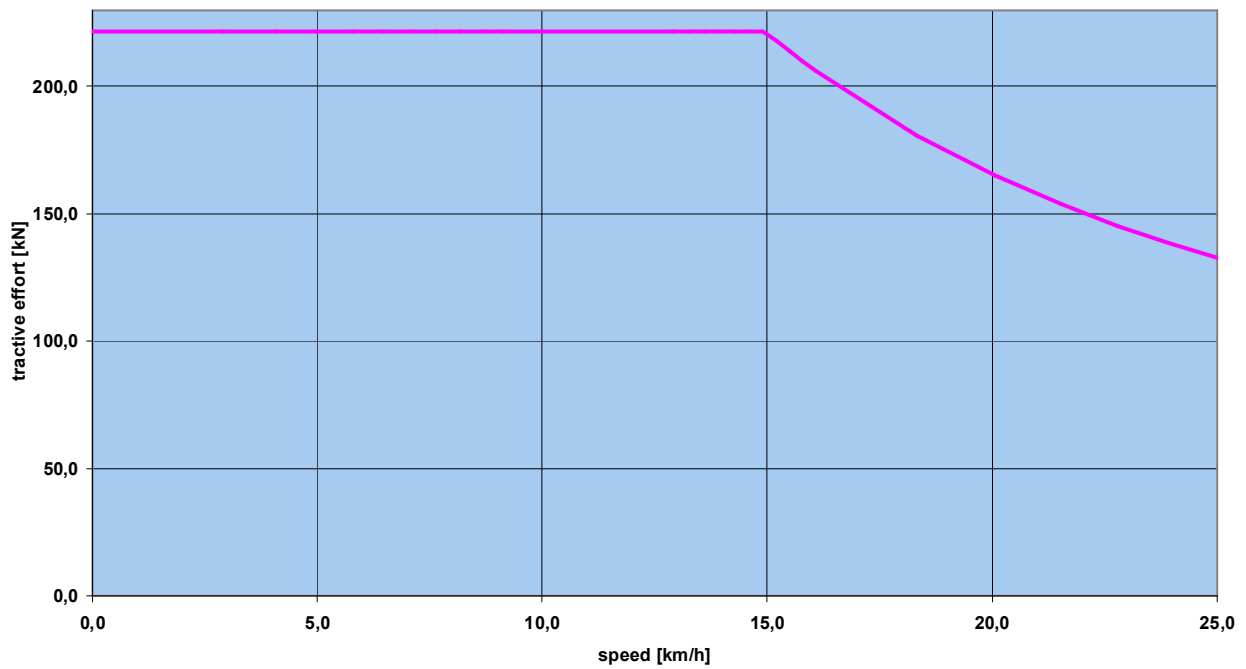
The 108 t locomotives are equipped with ATP-system for high safety and ATO-system for completely automatic operation in certain mine sections without any driver's influences.

Type:	<b>Production Locomotive</b>
Power Transmission:	<b>Trolley Wire/Battery Locomotive Electric AC</b>
Total Weight:	<b>108 t</b>
Axle Arrangement:	<b>Bo'Bo'</b>
Track Gauge:	<b>1.435 mm</b>
Length Over Couplers:	<b>11.300 mm</b>
Width:	<b>3.000 mm</b>
Height:	<b>3.600 mm</b>
Maximum Speed:	<b>25 km/h</b>
Tractive Effort:	<b>256 kN</b>
Capacity:	<b>Full Loaded Train: 1608 t Haulage: 110.000 t ore/day</b>

# ***Schalke***



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