



Siemens ES 64 F4

Technical Data

Wheel arrangement	Bo'Bo'
Track gauge	1 435 mm
Length over buffers	19 580 mm
Distance between bogie centres	9 900 mm
Distance between bogie axles	3 000 mm
Wheel diameters (new)	1 250 mm
Weight	87 t
Voltage systems	AC 15 kV, 16.7 Hz AC 25 kV, 50 Hz DC 3 kV DC 1.5 kV
Continuous rating	AC 6 400 kW DC 3 kV 6 000 kW DC 1.5 kV 4 200 kW
Power factor	near 1, regulated
Maximum speed	140 km/h, 160 km/h (in process)
Initial tractive effort	300 kN
Continuous tractive effort	270 kN
Maximum brake power at wheel rim	150 kN (variable)
Build	2003 – 2005

Electric four-system locomotive for heavy-duty freight transportation and fast passenger services

ES 64 F4 enables with its 4 voltage systems cross-border traffic throughout Europe on the main North-South and East-West corridors.

The locomotive is homologated in:

**Germany, Austria, Switzerland,
Italy, Slovenia, Croatia, the Netherlands
(incl. Betuwe-Line) and Poland**

Homologations have also been applied for in the following countries:

**The Czech Republic, Slovakia, Hungary, France,
Belgium and Sweden**



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