

# SIEMENS



[siemens.com/mobility/vectron](http://siemens.com/mobility/vectron)

## Vector DC for Fuori Muro

In March 2012 the private Italian operator Fuori Muro ordered two Vectron DC locomotives for deployment in Italy. The vehicles have a power rating of 5.2 MW and are designed for speeds up to 160 km/h.

### Option packages as a series feature for borderless mobility

Fuori Muro could be served by selecting existing option packages from the portfolio to meet their locomotive needs. The vehicles are equipped with auxiliary driving braking controls, AFB (automatic driving and braking systems), sanding on axles 1 to 4, thermoelectric hot/cold boxes, and remote data transmission.

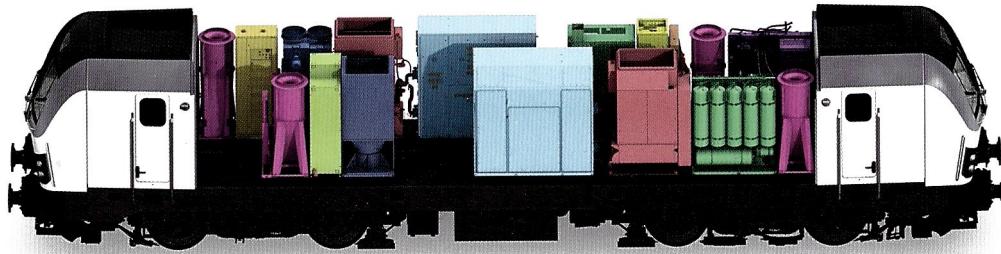
The locomotive variant sold to Fuori Muro is available as a preferred variant.

### Traffic mission-oriented portfolio for long-term cost efficiency

Vectron DC provides Fuori Muro with a locomotive tailor-made for traffic in Italy. Improved productivity, reduced maintenance costs, and higher availability strengthen Fuori Muro's position on the Italian market.

### Technical Data

Wheel arrangement	Bo'Bo'
Track gauge	1,435 mm
Length	18,980 mm
Width (across handrails)	3,012 mm
Height with lowered pantograph	4,248 mm
Distance between pivots	9,500 mm
Bogie wheelbase	3,000 mm
Weight	80 t
Profile	UIC 505-1
Wheel diameter new / worn	1,250 mm / 1,160 mm
Smallest negotiable radius	80 m
Voltage systems	3,000 V DC
Train power supply	3,000 V DC
Max. power at the wheel rim	5,200 kW
Max. power regenerative brake	5,200 kW
Max. power rheostatic brake	2,600 kW
Starting tractive effort	300 kN
Max. electr. braking effort	150 kN
Max. speed	160 km/h
Volumes of consumables:	
Sand boxes	60 l per box, i.e. 480 l
Windscreen washer reservoirs	2 x 28 l
Wheel flange lubrication	13 l
External power supply	One-sided 3 AC 400 V 50 Hz, 1 AC 230 V 50 Hz via adapter cable



#### Components

Brake rack	Low-voltage equipment cabinet	Traction converter
Traction motor blowers	Braking resistor	Compressed-air equipment rack
Fire extinguishing system	Oil and water cooler	DC high-voltage equipment cabinet
Auxiliary equipment rack	Auxiliary transformer rack	Train protection cabinet 3

**Siemens AG**  
Infrastructure & Cities Sector  
Rail Systems Division  
Nonnendammallee 101  
13629 Berlin, Germany  
[locomotives.mobility@siemens.com](mailto:locomotives.mobility@siemens.com)

[www.siemens.com](http://www.siemens.com)

© Siemens AG 2014  
Printed in Germany  
TH 066-140165 176835 DB 03140.5  
Dispo 21715  
Order No.: A19100-V620-B140-X-7600  
Vectron® is a registered trademark of Siemens AG.

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.