Vectron Dual Mode

G13

The powerful four-axle Vectron Dual Mode combines the benefits of a fully fledged diesel locomotive with those of an electric locomotive. This allows it to operate flexibly on both electrified and non-electrified routes.

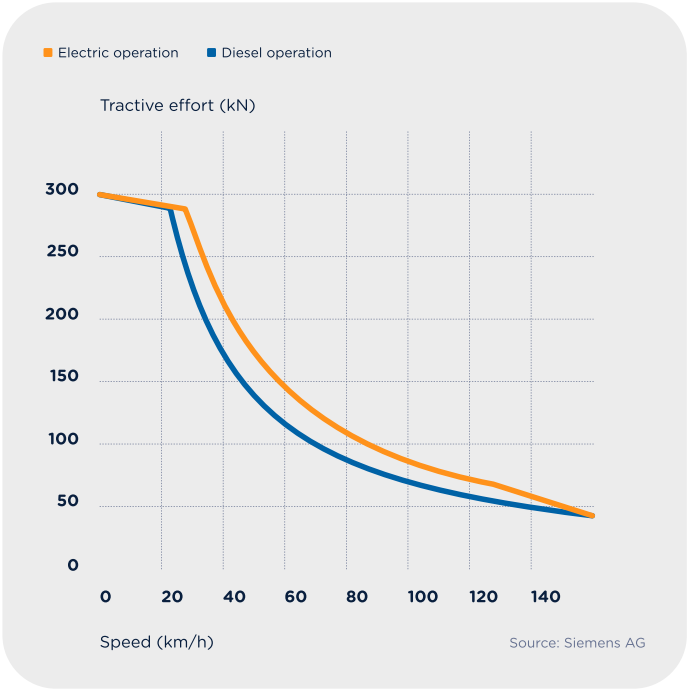


© Mirko Riemer

The four-axle **Vectron Dual Mode** dual-mode locomotive from Siemens Mobility is based on the proven Vectron concept and is known for its reliable and economical operation in both freight and passenger transport. Thanks to its powerful diesel drive and equipment for operation under overhead lines, it can be flexibly adapted to different traction requirements. The Vectron Dual Mode delivers in both operating modes, making it a genuine alternative to purely diesel-powered operation. Proven components such as the driver's cab and control desk ensure ease of operation.

The G13 variant is approved for operation in Germany and Austria and features ETCS for cross-border operation between the two countries.

Manufacturer	Siemens Mobility
Locomotive type	Dual-power locomotive, electric (15 kV AC; 16.7 Hz) and diesel operation
Traction power at wheel	2,400 kW (electric mode) 2,000 kW (diesel mode)
Starting tractive effort	300 kN
Operating speed	160 km/h
Tare weight	90 t
Length over buffers	19,975 mm
Minimum curve radius	140 m
Fuel tank net capacity	2.600 l
Train Control System	ETCS Baseline 3 Release 2, PZB 90
Miscellaneous	Double traction, EBuLa, radio remote control, GSM-R, air conditioning, fuel-powered pre-heating, NBÜ/ep brake, TB0 door control
Homologation	DE, AT



NORTHRAIL

Brandstwiete 1
20457 Hamburg
Germany

info@northrail.com
northrail.com

November 2026