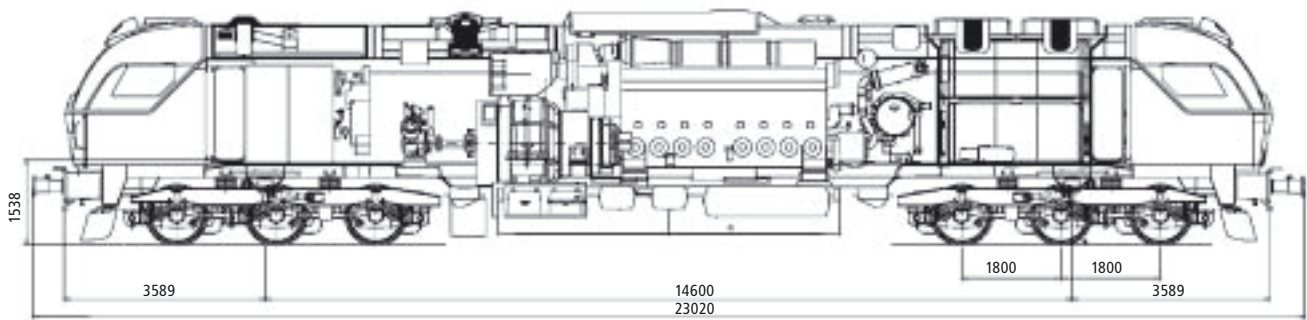




EURO 4000 Passengers

Diesel-Electric Locomotives

powered by
ELECTRIC MOTIVE.



GENERAL CHARACTERISTICS

Axle arrangement:	Co'Co'
Gauge:	1435 mm
Loading Gauge:	UIC 505-1
Weight:	126 t
Axle load:	21,0 t
Maximum Speed:	160 km/h
Starting Tractive Effort:	325 kN
Cabs:	Two, Air-Conditioned
Coupler:	UIC type
Crash:	prEN15227
Fuel tank:	6000 l
HEP:	450 kW, 1000 V 22/50 Hz
Multiple Unit:	Yes (zws)
Emissions:	
- Noise:	TSI Conventional Rolling Stock
- Exhaust:	EU97/68 Stage IIIA

powered by
ELECTRIC MOTIVE



Vossloh España, S.A.
Polígono Industrial del Mediterráneo
c/ Mitjera nº 6
46550 - Albuixech (Valencia) / España
Tel. +00 34 96 141 5000
Fax +00 34 96 141 5007
www.vossloh-espana.com

Diesel engine

Manufacturer	EMD
Model	16-710 G3C-U2
Power rating	3178 kW
Number of Cylinders	16
Rated Speed	900 rpm

Brake equipment

Pneumatic	EP Brake UIC 541-5
Dynamic Brake	YES
Blending Features	YES
Wheel slide Protection	YES

Compressor:

- Gardner Denver WLU
- 4270 l/min-10 bar at 900 rpm

Air Capacity	1000 l
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Electrical transmission

Type	AC/DC
Traction Motors	6 X D43
Main Generator	AR11
Dynamic Brake	600 Amp.
HEP	HE8 + Inverter

Bogie

Body shell	Fabricated steel
Axle	Hollow, EA1N
Wheel	1067 mm, R7T

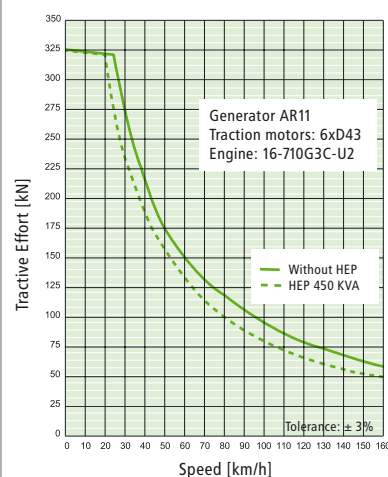
Suspension:

- Primary: Coil Springs
- Secondary: Rubber-metal
- Vertical, Horizontal and Yaw Dampers

Traction Motor	Nose suspended
Brake	One disk per wheel

Performance Curves

TRACTIVE EFFORT - SPEED CURVE
67:22 Gear ratio - 1067 mm Wheels
UIC Site condition



DYNAMIC BRAKE EFFORT - SPEED CURVE
67:22 Gear ratio - 1067 mm Wheels

