

## Hyperion

Bi-system Electric Multiple Unit





Comfort and safety are key aspects of our train offering open-space compartments, free internet access, diffused lighting systems and comfortable seats. All of these making short and long journeys an enjoyable and recreational travelling experience.

Internal and external monitoring systems ensure passenger safety, providing direct views and recordings to the driver's cabin.

The train meets the specific requirements of all European Standards (EN and UIC) and the technical specifications for interoperability (TSIs) and is registered at the 2014 ERA (European Railway Agency) database.

The four wagon train was designed to achieve a high level of **Reliability** and **Flexibility** in service, being a reference point of the modern railway transport systems.





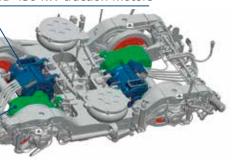








3B 430 kW traction motors



**Motor bogie** 

**Train-Set Composition** 

- 2 End Motor Cars;

- 2 Intermediate Trailer Cars

Bogies

Body width

2 end Jacobs motorized bogies 3 intermediate Jacobs trailer bogies

Overall train-set length

69 935 mm

4 Cars:

2 930 mm

600 mm high Floor at entrance doors level

800 mm trailer Floor level height (from t.o.r.)

bogies areas

1 250 mm Floor level at motor bogies areas

Motor Car length

20 367.5 mm

Intermediate Trailer Car length

14 600 mm

Doors

1 per car side (total of 8 side doors)

Width of access doors

1 300 mm

Total Mass (Exceptional Load)

170 t

Supply Power Voltage

3 kV DC / 25 kV - 50 Hz AC (bistandard systems

power supply)

Pantographs and transformers

2 pantographs and 2 transformers

Electric motors

Two 430 kW asynchronous tractions motors per

bogie (total power 1720 kW)

Maximum Speed

160 km/h

Maximum acceleration

 $0.8 \text{ m/s}^2$ 

Total seated passengers number

188 + 1 disable person

Total standing passengers number

225 (4 passengers/m<sup>2</sup>)

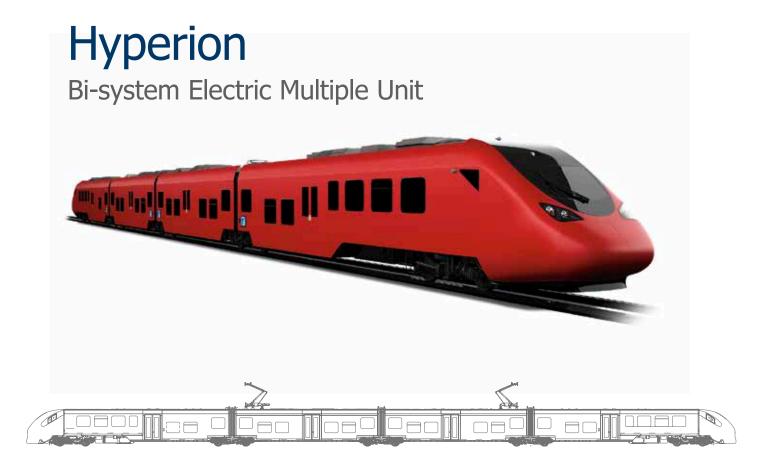
Toilets

1 standard + 1 for disable (HK) person

Air Conditioning

4 HVAC units (passengers), 2 HVAC (driver)











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