SIEMENS

Increase your capacity. Raise your expectations.

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Three reasons to move more people with metros

Urbanization

- 70% of the global population will live in cities by 2050 (today: 55%)¹⁾
- The need to connect growing satellite towns and suburbs
- Dramatic traffic congestion with huge economic and ecological costs
- The need for new intermodal traffic solutions, including transporting bikes and scooters on metros

Climate change and environmental protection

- Today traffic contributes over 23% of our global CO₂ emissions¹⁾
- Climate change is forcing decision-makers to advance their technologies and reduce their footprint
- Increased emission and pollution levels are forcing legislative bodies to reduce the environmental impact of human activities

Seamless intermodal transportation

- Provides integrated and intermodal passenger experiences – "search, book, pay, drive"
- One of the primary strategies for increasing the capacity, attractiveness, and efficiency of public transport
- Metros as the strong mass-transit backbone
- The key to covering the entire passenger journey



Did you know ...

That in many metropoles, the hidden cost of traffic jams can amount to € 1,000 per person per year²⁾?

Our solution: High capacity ...









The metro that grows with your city.

• For any operational need:

Get a metro that's optimized for highcapacity requirements. Thanks to its modular train configuration, you can choose what suits your needs.

• For satisfied passengers:

Offer them more: for example, with large entrance doors, wide walk-through gangways, and a thoughtfully designed interior. To mention just one benefit, the exceptional low noise emissions.

The metro you can rely on.

• Trust a running system:

You can build on superior technical reliability and a long service life. This also comes with a range of solutions that increase energy efficiency and reduce the CO₂ footprint.

• Trust our commitment:

As a worldwide leader in metro technology, we never stop making good things even better. Having built metros for more than 130 years, we are – and will remain – the perfect business partner for the long term.

The metro for sustainable cities.

• Reduce emissions:

The high-capacity metro is designed for economical power consumption. All kinds of emissions, from carbon dioxide and noise to dust, remain low throughout the entire lifecycle.

• Reduce waste:

At the end of the lifecycle, a very high proportion of the car body and the components can be recycled.

The metro for today and tomorrow.

• Digital in every respect:

This metro is designed to respond to current and future scenarios: for example, the fully integrated Train IT ecosystem as the backbone for innovative plug-in applications. We've also placed a strong focus on extraordinary system security.

• Ready to go driverless:

Do you want to operate your system driverlessly? Then GoA4 is the right option for you.

... for high demands.

Configure your metro – the train arrangement

Number of cars, number of doors, car width, longitudinal dimensions, seat arrangement – Inspiro HC features a set of different configurations to meet your operational and infrastructure requirements.

Wide and open – the gangways

Convenient walk-through gangways between the cars enhance the passenger flow, allow for better distribution of passengers throughout the train, and offer passengers a continuous, unified space during their journey.

Spacious and functional – the car areas

Inspiro HC features customer-centred design with multifunctional areas and fully integrated wheelchair areas, and provides passengers with air conditioning and exceptional low noise emissions a comfortable ride.

Just the way you need it – cab and emergency door

Depending on the chosen automation system, you can opt for a conventional driver's cab or an auxiliary driver's desk. Emergency doors at the front of the vehicles can be integrated based on the evacuation concept.



Excellence as standard – the bogies

The advanced, track-friendly bogies are optimized for efficient maintenance. They allow for different mechanical brake systems, axle loads of up to 17 t, and operating speeds of up to 120 km/h.

Precise and safe – the brake system

The electro-dynamic brake system saves energy and reduces wear and tear of the friction brake. As an option, operators can select the air-free brake and benefit with faster operation readiness and reduction of dwell time.

Modular and reliable – the energy supply

Inspiro HC is compatible to an external power supply of 25 kV AC overhead catenary system, as well as to 1500 V DC and 750 V DC via a third-rail current collector.

Integrated and connected – the Train IT system

The modular, fully integrated Train IT ecosystem allows to monitor and manage the trains from the wayside, and provides features to optimize operations such as remote diagnostics, remote configuration, and remote software updates.

A future with its roots in the past

Siemens has been shaping the mobility business since 1890. Back then, our company provided electric equipment for the world's first metro train in London. That was the beginning of a shared success story with our customers around the globe.

For more than 130 years, our metro trains in more than 21 cities worldwide have been helping make cities livable. They feature pioneering technologies that 13 million passengers around the world rely on each and every day.

Quick facts:

- Siemens history: Over 170 years in 190 countries worldwide
- For 130 years plus, metro trains in more than 21 cities worldwide
- 5000 metro cars transport 13 million passengers around the world every day
- 35 years of experience with GoA4 systems
- More than 50 turnkey projects implemented, including systems integration

Goole

Train production



Berlin

Turnkey solutions

Braunschweig

Global Competence Center for signaling

Erlangen

Engineering, development, and service

Nuremberg

Component development and engineering

Vienna

Metro production, development and engineering, assembly, and commissioning

Graz

Global Competence Center for bogie development and engineering





Published by Siemens Mobility GmbH

Otto-Hahn-Ring 6 81739 Munich Germany

contact.mobility@siemens.com

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