



HEAVY RAIL METRO

Metropolitan Atlanta Rapid Transit Authority, Atlanta, Georgia

MARTA and Stadler signed the contract for 254 METRO train cars in Atlanta on November 14th, 2019. The contract includes two options for 50 additional cars each. The contract is valued at over 600 million US dollars. In terms of units, this is the largest contract that Stadler has received thus far. For Stadler this is also the first large METRO contract in the US. Beginning of 2021, MARTA and Stadler agreed on the vehicle configuration which resulted in 224 rail cars, 56 4-car trainsets respectively.

The trainsets are compliant with the Americans with Disabilities Act (ADA) and are easily accessible for persons with reduced mobility. The bright interior design with wide aisles and open gangway, make the 309 feet (94.2 meter) long METRO trains comfortable and user-friendly for all passengers. Moreover, the state-of-the-art metro cars feature luggage storage space much more digital Passenger information, spacious seating and standing areas to lighten the journey to the largest airport in the United States, Hartsfield–Jackson Atlanta International Airport. Aerodynamic design, unique exterior and interior lighting, State of the Art Propulsion and Train Control Systems will re-define the journey with MARTA and the METRO market in the North American continent.

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Technical Features

Technology

- Digitalized Passenger Information System
- Revolution in US Metro design
- Wireless charging for Passengers
- Uniquely designed front mask lighting
- Spacious operators cab design
- State of the Art propulsion Technology
- Maximum running gear ride comfort

Comfort

- Optimal access provided for passengers with special needs (ADA)
- Improved Layout – dedicated storage for bikes and strollers
- Windscreens improve protection from weather and have infotainment included
- Open gangway design for easy transition and disembarking
- Improved indirect and direct cabin lighting
- State-of-the-art Air-conditioning and distribution
- Dedicated preferred seating

Personnel

- Maximum comfort and safety for Operators
- Ease of maintenance for personnel
- Hostler Panel to maneuver easily in the yard
- Maintenance (accessibility, maintainability, reliability) centered design

Reliability / Availability / Maintainability / Safety

- Advanced European Crash Standards
- Needlepoint Bi-Polar Ionization System (healthier air)
- Improved air quality
- Dedicated Wheelchair areas
- State of the Art CCTV system
- Modern onboard train control System (ATC)

Vehicle Data

Customer	Metropolitan Atlanta Rapid Transit Authority (MARTA)
Operated networks	Atlanta, GA
Gauge	4' 8.5" (1435 mm)
Designation	CQ 400
Supply voltage	750 VDC
Axle arrangement	TTMMMMMMMMMMMMTT
Number of vehicles	56
Delivery	July 2025
Passenger Capacity	750
Fixed Seats	232
Wheelchairs	4
Bicycles	4
Standees	518
Floor height	44" (1.12 m)
Side door Entrance width	50" (1.27 m)
Length over coupling	309' – 0.66" (94.2 m)
Vehicle width	10' - 5.98" (3.2 m)
Vehicle height	12' - 3.5" (3.75 m)
Truck wheelbase	
Motor truck	7' - 3" (2.21 m)
Trailer truck	7' - 3" (2.21 m)
Wheel diameter, new	34.5" (0.88 m)
Continuous power at wheel	1,440 kW
Max. power at wheel	2,472 kW
Max. tractive effort	225.6 kN
Max. acceleration, gross	2.5 mph/s
Maximum speed	70 mph
Vehicle weight (AW0)	324,000 lbs (146,965 kg)
Max. axle load (AW3)	30,864 lbs (14,000 kg)