

August 2024

Valley Metro® Light Rail Vehicles



Valley Metro owns and operates a total of 59 light rail vehicles manufactured by Kinkisharyo International and Siemens. Vehicles are customized for the desert climate and operating environment, able to withstand hot temperatures and provide passengers with a comfortable ride. Features include oversized air conditioning units, insulation to reduce cooling loss and solar reflective windows.

Vehicles are equipped with interior and exterior security cameras, emergency intercoms, audible and visual station announcements and lighted message boards. Door entries are level with station platforms.

A day in the life of a light rail vehicle

At the beginning of the day, operators receive their schedules, visually inspect their trains and enter the alignment for service. At the end of the day, vehicles return to the operations and maintenance center.

Maintenance staff ensures the vehicles are maintained and repaired as needed, working all hours of the day and night to make sure vehicles are ready for service. The train's interior and windows are cleaned daily and the exterior is washed at least every three days through the automated vehicle wash that uses reclaimed and recycled water.

After maintenance and cleaning, vehicles are kept on a storage track and coupled into trains in preparation for the next day's operations.

Kinkisharyo and Siemens Vehicle Facts

KINKISHARYO	SIEMENS
Weights 101,000 pounds	Weights 103,602 pounds
90 feet long, 12 feet high, 8.5 feet wide	91.5 feet long, 12.7 feet high, 9 feet wide
66 seats with a comfort capacity of 175 passengers	62 seats with a comfort capacity of 160 passengers
4 ADA seats and 4 bike racks	12 ADA seats and 4 bike racks
Up to three vehicles can be linked together into one train	
Electrically powered using a 750-volt DC traction power system	

Environmentally Friendly Vehicle Features

- Clean, electric propulsion
- Regenerative braking that puts energy back into the system on braking
- CFC-free refrigerant in high efficiency air conditioning systems
- Asbestos-free brake pads
- Insulated car bodies to reduce cooling loss
- Solar reflective windows
- Wide use of energy efficient LED/fluorescent lighting
- Incorporation of bicycle racks into design



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