



Bi-directional, six-axle, high-floor single articulated light rail vehicle constructed of low alloy high tensile (LAHT) steel, suitable for high platform operation.

Modern interior with large windows. Enhanced sidewall heating and overhead ventilation to accommodate local climatic conditions. Seating is primarily knee-to-back.

Eight modern platform level sliding plug doors. Two doorways with ramps allowing easier access for passengers.

Modern passenger information system consisting of automated announcements, public address, passenger-operator intercom and electronic destination signs.

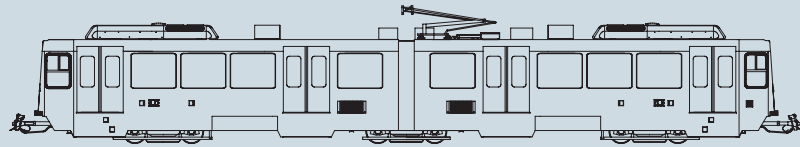
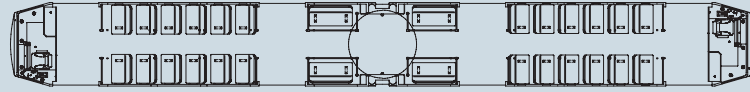
Each vehicle is equipped with train-wayside communication (TWC) equipment and automatic train protection (ATP) equipment.

Propulsion is provided by a modern, state-of-the-art AC-IGBT system, with four motors per car, pulse controlled inverters and microprocessor vehicle control logic. Dynamic and hydraulic friction brakes are provided, as well as track brakes.

Performance and Capacity		
Maximum operational speed:	50 mph	80 km/h
Maximum allowable speed:	50 mph	80 km/h
Service acceleration and deceleration:	3.0 mph/s	1.34 m/s ²
Emergency braking rate:	6.15 mph/s	2.75 m/s ²
Passenger capacity:	60 seats Approx. 173 total passengers	
Maximum operational gradient:	7%	
Motor power rating:	194 hp x 4	145 kW x 4
Catenary supply voltage:	600 Vdc	

SD160 Light Rail Vehicle

Calgary, Canada



Vehicle Dimensions and Weight

Length over coupler:	81.4 ft	24820 mm
Width:	8.7 ft	2654 mm
Height with pantograph (locked down):	12.6 ft	3840 mm
Maximum pantograph height:	up to 23 ft.	7010 mm
Vehicle empty weight:	89560 lbs (AW0)	40624 kg
Floor height above TOR:	3.2 ft	985 mm
Low floor section above TOR:	n/a	n/a
Minimum turning radius:	82 ft	25 m
Vertical curve, crest:	1150 ft	350 m
Vertical curve, sag:	820 ft	250 m
Track gauge:	4.7 ft	1435 mm
Wheel base:	5.9 ft	1800 mm