San Jose, CA - Santa Clara Valley Transportation Authority

Technical Data





This 70% low-floor LRV was supplied to replace the aging original fleet and to support new line extensions connecting to BART and CalTrans.

This new design simplified ADA access with low-floor level boarding and provided passenger convenience with interior bicycle racks. Formation: 6 - Axle Articulating

Track Gauge: 4ft – 8.5in / 1435mm

Electric System: 750 Vdc Overhead Catenary System



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Santa Clara - Santa Clara Valley Tra	nenortation Authority
General	
	KINKICHA DVO International
Manufacturer	KINKISHARYO International
Quantity	100 2001
Yr. Delivered (Last)	
Body Type	6-axle double articulating
Empty Weight	99980 lbs (45350 kg)
Seats	65 passengers
Minimum Radius	82 ft (25 m)
Voltage (VDC)	750
Maximum Speed (Balance)	62 mph (99 kph)
Full Acceleration	3.0 mphps (1.34 m/s ²)
Deceleration, Service	3.5 mphps (1.56 m/s ²)
High/Low Platform	Low
ADA Accessibility	Level Boarding
Maximum Cars to Train Line	3
Noise Level at 40 mph & 50 Ft	75 dBA
Carbody	
Manufacturer	Kinki Sharyo Co. Ltd.
Material	LAHT
Buff Load (Lbs)	2g
Length (Over Coupler Faces)	90 ft (27432 mm)
Width	8.67 ft (2642 mm)
Height	11.08 ft (3377 mm)
Ceiling Height	8.17 ft (2490 mm)
Floor Height (TOR)	Low floor 14 in (355 mm) High floor 35 in (889 mm)
Floor Construction/Covering	Plymetal/Neoprene Rubber
Passed ASTM E119	Yes
Articulation-Manufacturer	KINKISHARYO International
Seat Manufacturer	American Seating
Seat Type	Cantilever SS Frame
Window Type	Laminated Safety Glass
Couplers	
Manufacturer	Dellner
Location of Electric Heads	Side
Isolation Method	Drum Switch
Coupler Height (TOR to CL)	17 in (432 mm)
Electrical Equipment	
LVPS Manufacturer	Alstom
LVPS Output (kW)	10
APS Manufacturer	Alstom 208Vac, 3-Φ inverter
APS Output (KVA)	60
Battery Manufacturer	SAFT
Battery Capacity (A.h.)	180
Lighting	
Manufacturer	Translite
Ballast Type	DC
Fixtures Contain Air Diffusers	Yes
Railroad Headlight	Yes
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Destination Signs	
Manufacturer	Meister
Туре	LCD
Number per Car	2/4/3
Location	Front/Side/Interior
Propulsion	
Manufacturer	Alstom
Motors/Powered Truck	2
Method of Cooling for Motors	Self-ventilated vortex type
Control Type	AC IGBT Inverter
Control Package/Car	2
Control State-of-the-Art	Microprocessor
Method of Cooling for Control	Forced Air
Pantograph Manufacturer	Schunk Graphite Technology
Motor Rating (kW)	140
Type Gearing	Voith Dbl Red
Gear Ratio	6.64
Friction Brakes	
Manufacturer	Knorr
Туре	Spring-applied Hydraulic Release
Separate Control	Yes
Track Brake Manufacturer	Knorr
Number of Axles With Brakes	6
Doors	
Туре	Sliding Plug
Number per Side	4
Manufacturer (Controls)	IFE
Controls (Location/Type)	Overhead/Electric
Sensitive Edge	Yes
Photo Cells	No
Passenger Activated	Pushbutton (Outside/Inside)
Trucks and Suspension	
Manufacturer	Kinki Sharyo Co. Ltd.
Primary Suspension	Chevron
Secondary Suspension	Air Spring
Load Leveling	Yes
Wheel Base	Motor: 75 in (1905 mm) Trailer: 71 in (1803 mm)
Wheel Manufacturer	Penn Machine
Wheel Type	Bochum 84
Wheel Size	26 in (660 mm)
Truck Centers	33.5 ft (10217 mm)
Frame Location	Inside
Wheel Profile	1:32
HVAC	
Manufacturer	Toshiba-Carrier
Heating Configuration	OH & Floor
Heating Capacity (kW)	13.2 OH/12.2 Floor
Cooling Configuration	Roof
Cooling Capacity (Tons)	15.2
Communications	
Manufacturer: Meister • Systems inclu	de PA System—Inside/Outside, Intercom,
Prerecorded Announcements, Monitor	
GPS Positioning—Antenna mounted	

GPS Positioning—Antenna mounted



