

MR-63 SPECIFICATIONS



MR-63

Type of vehicle	Rubber-tired rapid transit car
-----------------	--------------------------------

CAPACITY

Number of seats	32
Number of standees	77
Total number of passengers	109

DIMENSIONS - BODY

Length, over coupler faces (motor car)	17.196 m
Length, over coupler faces (trailer car)	16.421 m
Length, over end of car (motor car)	16.853 m
Length, over end of car (trailer car)	16.180 m
Width, over side sheets	2.515 m
Width, doorway	1.295 m
Height, rail to roof (including trucks)	3.658 m
Height, interior at center aisle	2.134 m
Doorway height	1.956 m

WEIGHT

Empty weight (motor car)	26 082 kg
Empty weight (trailer car)	20 185 kg
Gross weight (motor car)	36 967 kg
Gross weight (trailer car)	31 070 kg

DIMENSIONS – TRUCK

Tire dimensions	Michelin XPMA 345/85R16 Bridgestone E13.50/85R16
Truck wheelbase	1.540 m
Truck centres	11.125 m
Track gauge	1.435 m

ELECTRICAL SYSTEM

Nominal line voltage	750 VDC
Low voltage power supply	Static converter 3 ph. 120/208 VAC & 72 VDC
Traction motor, cont. rating	125 kw (168 hp) at 375 VDC
Traction motor, 1-hr rating	131 kw (176 hp)
Number of motors / truck	Two (2)

MISCELLANEOUS

Gear ratio	9.25:1
Gear box type	Gear and pinion differential
Truck type	H frame, fabricated steel
Primary suspension	Rubber
Secondary suspension	Eligo rubber / steel spring
Brakes	Tread, pneumatic & electrical
Motor control	JH combinator
Power collection	Third rail
Ventilation	Yes
Heating and air conditioning	Operator cab only
Car body	LAHT low-alloy high-tensile steel
Number of trucks	Two (2)
Number of powered trucks	Two (2) per motor car

PERFORMANCE

Maximum service speed	72.5 km/h
Acceleration rate (maximum)	1.43 m/s ²
Braking rate - service with 120 passengers	1.79 m/s ²
Braking rate - emergency with 160 passengers	1.79 m/s ²
Maximum grade	6,50%
Minimum radius horizontal	46 m

Basic car layouts/plans are available on request in pdf, .tiff and .dwg formats.

Would you like to see them? Write to us at mr63@stm.info.