



MegaWay™ Mass Transit Technical Data 6-3-15

Data Category	MegaWay™ MT
General Operation	
Initial Operating Mode	Coupled train In-train operator Manual operator control
Final Operating Mode	Coupled train Automated control (No in-train operators)
Signaling	In cab/digital
Signal Communications	Digital/rf, inside WheelWays™
Maximum Speed	65-mph
Guideway	
Type	Elevated, open-center Enclosed rail tubes (patented) Enclosed wheels (patented) Enclosed power rails (patented) Open-mesh center walkway (patented)
Material	Stainless-steel
Class	Factory-built guideway sections (On-site pier installation)
Size	10.5-feet wide 40-inches high
Minimum turn radius (Radius must be greater as speed increases.)	50-feet
Typical pier location	Median or parking lane
Guideway switches	
Class	Passive (no moving parts) (Car-based switching)
Operate time	Not applicable (zero)

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TRANSPORT SYSTEMS

Data Category	MegaWay™ MT
Cars	
Wheel type	Electric motor-wheels
Traction	Rubber tires
Tire types	High-pressure/flat free
Suspension	Air cushion
Structure & exterior	Stainless-steel
Capacity (passengers/car)	16 - standard 30 - crush conditions (16 seated - 14 standing) (lead cars – 12 seated - 14 standing)
Seat Type	Individual fold up seats
Number of seats & arrangement	Four wide - Face to face (facing center aisles)
Fast entry & exit features	15 pass per door
Wheelchair capacity	Up to four/car
Car floors	Platform level
Doors/car	Two per side
Door width	48-inches
Door style	Split, bus-type power
Emergency doors/car	One at each end
Emergency door type	Sliding (fold-down door/ramp at train ends) (patented)
Emerg. door width	48-inches
Maximum gross weight	8,000-pounds
Empty weight	3,200-pounds
Length (body)	15.5-feet
Length (with train couplings)	18-feet
Width	91-inches
Height (body)	94-inches



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TRANSPORT SYSTEMS

Data Category

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Train Consist & Passengers

Cars/train (<i>200-ft platforms</i>)	Up to 11
Train capacity (<i>200-ft plat.</i>)	Up to 322 passengers
Cars/train (<i>300-ft platforms</i>)	Up to 16
Train capacity (<i>300-ft plat.</i>)	Up to 468 passengers

Train Operation

Max. Acceleration rate	0.25g
Standard braking rate	0.25g
Maximum braking rate	0.33g
Stopping distance @ 0.33g braking	
30-mph speed	90-feet
65-mph speed	420-feet
Maximum full-speed grade	10%
Station dwell time	20-seconds
Minimum train interval (Includes station dwell time)	36-seconds (38-sec for 300-ft platforms)
Trains per hour	97.3 (94.7 for 300-ft platforms)

Passenger Capacity (maximum - crush load - mix of seated and standing)

Passengers/hr/direction (pphpd)	
(<i>200-ft.</i> platforms)	31,330
(200-ft. platforms) (All seated)	16,346
(<i>300-ft.</i> platforms)	44,319
(300-ft. platforms) (All seated)	24,130

Capacity calculation basis:

Maximum capacities are based upon on-line stations at 2/3-mile (3,520-feet) intervals. Maximum train speed reached between stations is 65-mph and both acceleration and deceleration rates are 0.25g (8 ft/s/s).

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Emergency Escape

Rescue category

Unaided - passenger initiated
(Including unaided wheelchair user escape)

Car provisions - seats

Fold-up seats (Center walkway access)

Escape doors

Fold-down ends of train doors
(Walk ramp to center walkway) (patented)

Guideway

Center mesh walkway
(Between side rails) (patented)

Stations

Location

Elevated over street

Construction

Factory-built

Exterior Material

Stainless-steel/glass

Access from street

Escalators & elevators

Access to trains from platform

Elevator-type doors
(No open platforms)

Train Storage

Storage location

Elevated storage guideways

Maintenance Facilities

Routine maintenance

Special guideway section

Major maintenance

Off-guideway building
On guideway car lift - Move cars to/from trucks
(Cars trucked to maintenance site)