

PALM SPRINGS AERIAL
Tramway



FOR IMMEDIATE RELEASE

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This is a double reversible aerial tramway, also known as a big back tramway. The floor of each Tram car makes one to two rotations per trip.

Manufacturer: Doppelmayr Tramways of Thun, Switzerland

Elevation of lower terminal (Valley Station): 2,643ft / 806m ASL

Elevation of upper terminal (Mountain Station): 8,516ft / 2,596m ASL

Difference of elevation: 5,873ft / 1,791m

Actual length traveled along cables: 12,780ft / ~~3,285m~~

3895 m

2.5 miles

Average gradient: 26 degrees

Maximum: 42 degrees

Number of intermediate towers: 5

The first tower is the tallest at approximately: 227ft

Car statistics: Height inside: 8ft

Diameter: 18ft

Carriage Height: 25 ft

Weight (carriage, hanger and cabin)
Empty:

22,000lb / 10,000kg

Maximum Payload:

13,600lb / 6,200kg

Total Weight: 35,600lb / 16,200kg

Capacity of each car: Approx. 80 passengers plus

1 car operator

Normal traveling speed: 7.5 meters per second

or 16 mph (1476 feet per minute)

Maximum existing traveling speed: 10 meters per second *or*
approx *or* 21 mph (1,970 feet per minute) *22 mph*

Maximum future traveling speed: 11 meters per second *or*
approx *or* 24 mph (2,165 feet per minute)

Maximum traveling speed while passing towers: 8 meters per second *or*
approx *or* 17 mph (approx. ~~1,600~~ feet per minute) *16 1575*

System of electric drive: 3 Phase, AC, Regenerative Variable Frequency

Maximum output of AC drive motor: 1,800 HP – 1,343 KW

Continuous output: 1,200 HP – 895 KW

Back-up Engines:

- 1st: 6.5 meters/second
12 cylinder diesel engine
- 2nd: 2 meters/second
6 cylinder diesel engine

Number and size of cables:

- 2 x 2 tension to track ropes of 3 inches / 75mm diameter
- 2 stationary track cables of 1-7/8 inches / 47.5mm diameter
- 2 stationary track cables of 1-15/16 / 48mm diameter
- 1 lower hauling rope of 1-9/16 inches / 40mm diameter
- 1 upper counter rope of 1-3/4 inches / 45mm diameter
- 1 auxiliary rope of 15/16 inches / 24mm diameter
- 1 telephone rope of 5/8 inches / 16.2mm diameter, with a fiber optic core

The cable span and number of slack rope carriers

From/To Cable Span	Number of Slack Carriers	
Valley Station/Tower 1	11,148ft / 349m	1
Tower 1/Tower 2	3,280ft / 1,000m	5
Tower 2/Tower 3	3,225ft / 983m	4
Tower 3/Tower 4	3,455ft / 1,053m	4
Tower 4/Tower 5	968ft / 295m	1
Tower 5/Mountain Station	695ft / 212m	0

Individual Tower Heights:

Tower 1 227ft / 69.1m

Tower 2 146ft / 44.4m

Tower 3 83ft / 25.3m

Tower 4 65ft / 19.8m

Tower 5 68ft / 20.6m

Each pair of track cables is tensioned by counterweights at the Valley Station, weighing in excess of 120 tons each.

The haul and counter ropes are tensioned by a counterweight at the Mountain Station weighing 67 tons.

Other rotating trams in the world: Mt. Titlis

Engelberg, Switzerland

Winter/Summer

Table Mountain

Cape Town,

South Africa

Year Round

Page 1 of 3