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PALM SPRINGS AERIAL TRAMWAY TECHNICAL FACTS

This is a double reversible aerial tramway, also known as a Jig-Back Tramway.

The floor of each tramcar 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 / 3,895m
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 approximately 22 mph (1,970 feet per minute)
Maximum future traveling speed:	11 meters per second or approximately 24 mph (2,165 feet per minute)
Maximum traveling speed while passing towers:	8 meters per second or approximately 18 mph (approx. 1,575 feet per minute)
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:	
1 st :	6.5 meters/second 12-cylinder diesel engine
2 nd :	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	1,148ft / 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

