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Photos available upon request

TECHNICAL FACTS

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

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Capacity of each car:	Approx. 80 passengers plus 1 car operator
Maximum existing traveling speed:	10 meters per second or 21 mph (1,970 linear feet per minute)
Maximum future traveling speed:	11 meters per second or 24 mph (2,165 linear feet per minute)
Maximum possible traveling speed while passing towers:	7 meters per second or 18 mph (1,575 linear feet per minute)
System of electric drive:	3 Phase, AC, Regenerative Variable Frequency
Maximum output of AC hoist motor:	1,800 HP – 1,343 KW
Continuous output:	1,200 HP – 895 KW
Number and size of cables:	

- 2 x 2 tension to track ropes of 3 inches / 75mm diameter
- 2 x 2 stationary track cables of 1-7/8 inches / 47.5mm 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
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

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