

## 3S Gondola Lifts

 ... to top performance.

 From challenge ...





PRÄDIKAT WELTCUPGEPRÜFT  
ÖTZE TÄL SÖLDEN

GAISLACHKOGL

## A long list of superlatives

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Taking the long view, identifying trends, creating innovations – these are the strengths you can count on as a Doppelmayr/Garaventa customer. With leading-edge ropeway technology, we set the benchmark for transport systems geared to the future. Your trust in our capabilities and products motivates us to provide you with top performance every time. As your partner we take pride in our reliability.

Our proven tricable gondola detachable (TGD) ropeways combine the benefits of gondola lift and reversible aerial tramway. The result is technical perfection. This 3S system has two fixed, fully locked track ropes on

which the carrier travels and a circulating haul rope which is clamped to the carriages. This detachable continuous movement system offers top performance and reliability. It has a total transport capacity of up to 5,000 PPH and cabins for up to 35 passengers. 3S ropeways are characterized by very high wind stability, low energy consumption and the capability to cope with very long rope spans. Infinitely adjustable travel speeds of up to 7.5 m/s are possible.

 We set the benchmark  
for ropeway technology geared to the future



## The pinnacle of technology, performance and reliability

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The 3S lifts in Sölden and Koblenz were the first to incorporate the Doppelmayr/Garaventa recovery concept which allows passengers to stay in the gondolas in the event of a lift malfunction.

The aim of this novel development was to provide the technical and organizational means to ensure that all gondolas can always be safely returned to the nearest station. This approach provides maximum safety plus the utmost in comfort. The key to this solution is 'redundancy'.

All functionally relevant parts and equipment are duplicated and independent of one another. Thanks to this concept, it is now possible to realize ropeway projects which previously could not be considered as non-acceptable evacuation option was available.

 World premiere  
for an innovative recovery system



### Latest projects

- 30-TGD: 3S Rosa Khutor Olympic Village, Section 1, Sochi, Russia
- 30-TGD: 3S Rosa Khutor Olympic Village, Section 2, Sochi, Russia
- 30-TGD: 3S Psekhako, Rosa Khutor, Sochi, Russia
- 28-TGD: Pardatschgratbahn, Ischgl, Austria

### Further references

- 30-TGD: Alpin Express 1+2, Saas Fee, Suisse
- 30-TGD: L'Olympique, Val d'Isère, France
- 30-TGD: 3S, Kitzbühel, Austria
- 28-TGD: Peak 2 Peak, Whistler, Canada
- 35-TGD: Seilbahn, Koblenz, Germany
- 30-TGD: Gaislachkogel 2, Sölden, Austria



## Technical perfection


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As in the case of reversible aerial ropeways, the track ropes are guided over towers and track rope saddles. The haul rope runs in haul rope support sheaves on the towers. In the case of the tricable gondola lift, the haul rope can also be supported by slack carriers on the track ropes in the spans between the towers. Only with this system are extremely long rope spans possible without the risk of a critical haul rope sag.

3S carriage assembly: The 8-wheel bogie carriages consist of two 4-wheel bogies, one on the uphill and one on the downhill side.

Large lined carriage wheels ensure smooth running to provide passengers with optimal ride comfort. Each cabin is attached to the haul rope by means of two independent, automatic detachable grips.

3S cabin: CWA Zeta/Taris for 20 to 35 passengers (including up to 24 seats); optimal aerodynamic design and excellent behavior in windy conditions.

 Tricable technology  
at the highest level



## Key features at a glance

- speed up to 7.5 m/s
- transport capacity up to 5,000 PPH
- the ropeway solution to meet extreme requirements
- very large rope spans possible (depending on topography)
- utmost availability
- readily adaptable to customer requirements
- top comfort and safety for passengers
- all parts and equipment comply with EU directives (CEN)
- very high wind stability
- low energy consumption
- top ride comfort





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